

CECIL COUNTY PUBLIC SCHOOLS PURCHASING DEPARTMENT

GEORGE WASHINGTON CARVER EDUCATION LEADERSHIP CENTER
201 BOOTH STREET • ELKTON, MD 21921

phone: 410.996.5429 • fax: 410.996.1081 • www.ccps.org

Jeffrey A. Lawson, Ed.D.
Superintendent of Schools

Diana B. Hawley
President, Board of Education

March 27, 2024

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT PROJECT

ADDENDUM #03

This addendum is to address Bid RFIS, contract drawings, and specification modifications as noted below. Proposers and related parties will be responsible for reading and understanding all documents, the scope of work, addenda and all related solicitation documents issued. These documents will become attached to and part of the solicitation and award of bid contract.

ITEM No. 1 **MD DEPT. OF LABOR PREVAILING WAGE LETTER dated 3/22/24**

ITEM No. 2 **MD DEPT. OF LABOR PREVAILING WAGE LETTER dated 3/27/24**

ITEM No. 3 **BID RFIS – Received on or before March 20, 2024**

ITEM No. 4 **CONTRACT DRAWINGS AND SPECIFICATIONS – Changes and clarifications dated 03/25/2024**

Authorized Signature/Date: _____

Printed Name/Title: _____

Contractor Name: _____

Address: _____

***Note: Bidder must sign and submit Addenda with the proposal submission. The same person signing the Addenda acknowledgement(s) must sign the Bid Form.**



LABOR AND INDUSTRY
PREVAILING WAGE UNIT
10946 GOLDEN WEST DRIVE, STE. 160
HUNT VALLEY, MD 21031

3/22/2024

Crystal D. Preston
Cecil County Public Schools
201 Booth Street
Elkton, MD 21921

Determination # 56846

Dear Sir/Madam:

Please see the additional wage rate(s) that has been issued for the above referenced project.

<u>CLASSIFICATION</u>	<u>BASIC HOURLY RATE</u>	<u>FRINGE BENEFITS</u>
Glazier	\$28.02	\$13.35
Ironworker - Structural	\$32.12	\$25.03
Painter	\$27.46	\$11.71
Roofer/Waterproofers	\$39.25	\$14.71

If you have any additional questions, please do not hesitate to contact me directly at 410-767-2365 or via email at katrina.williams@maryland.gov.

Sincerely,
Katrina Williams
Prevailing Wage Unit

cc: Wage and Hour Investigator

Rate 2024(0025/033B)



LABOR AND INDUSTRY
PREVAILING WAGE UNIT
10946 GOLDEN WEST DRIVE, STE. 160
HUNT VALLEY, MD 21031

3/27/2024

Crystal D. Preston
Cecil County Public Schools
201 Booth Street
Elkton, MD 21921

Determination # 56846

Dear Sir/Madam:

Please see the additional wage rate(s) that has been issued for the above referenced project.

<u>CLASSIFICATION</u>	<u>BASIC HOURLY RATE</u>	<u>FRINGE BENEFITS</u>
Communication Installer Technician	\$27.53	\$13.98
Drywall-Spackling, Taping, & Finishing	\$33.21	\$14.03

If you have any additional questions, please do not hesitate to contact me directly at 410-767-2365 or via email at katrina.williams@maryland.gov.

Sincerely,

Katrina Williams

Prevailing Wage Unit

cc: Wage and Hour Investigator

Rate 2024(025B)

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
1	2/29/2024	Per drawing E601, HS-MSB is identified as 4000A on the riser diagram, but 3000A in the schedule (drawing E708). Please clarify.	HS-MSB is 3000A. Riser will be updated to reflect
2	3/1/2024	Is Siemens an acceptable alternative fire alarm system manufacturer?	Yes. Manufacturer will be added as acceptable alternative.
3	3/1/2024	Please provide clarification on the floor depression for the walk-in cooler/freezer, Line item 1. Written specs call for 6" deep floor recess, but the Kitchen drawings call for 4" deep recess.	4" depression is correct 3/18/2024: see Addendum 2.
4	3/1/2024	Is Automated Logic's Webctrl an acceptable manufacturer substitution for specifications 230900?	No
5	3/1/2024	I was looking into if there were any utility locating services needed on the project in regards to sitework.	Utility location service is required on the project and is covered in several spec sections.
6	3/4/2024	1. Variable-Frequency Motor Controllers – May "Yaskawa" be added to the list of acceptable manufacturers for spec section 230515.2.1.B	No
7	3/4/2024	2. Energy Recovery Units – May "Petra Engineering" be added to the list of acceptable manufacturers for spec section 237200.2.1.A	No
8	3/4/2024	3. Electric Resistance Air Coils – May "Neptronic" be added to the list of acceptable manufacturers for spec section 238216.14.2.2.A	No
9	3/4/2024	4. Finned-Tube Radiation Heaters – May "Raywall" be added to the list of acceptable manufacturers for spec section 238236.2.2.A	No
10	3/4/2024	5. Unit Heaters – May "Raywall" be added to the list of acceptable manufacturers for spec section 238239.2.1.A & 2.2.A	No
11	3/4/2024	6. Cabinet Unit Heaters – May "Raywall" be added to the list of acceptable manufacturers for spec section 238239.13.2.1.A	No
12	3/4/2024	7. Wall and Ceiling Unit Heaters – May "Raywall" be added to the list of acceptable manufacturers for spec section 238239.19.2.1.B	No
13	3/4/2024	8. Electric Radiant Ceiling Panels – May "Raywall" be added to the list of acceptable manufacturers for this equipment	No
14	3/4/2024	9. Energy Recovery Ventilators – May "System Air" be added to the list of acceptable manufacturers for this equipment	No
15	3/5/2024	Are both the current middle and high school to be demolished?	The existing High school will be demolished. The existing middle school is not scheduled for demolition.
16	3/5/2024	Is the site visit on 3/6 required for the demolition package and will we be walking the inside of the school?	The site visit is not required to submit a bid. There will be a separate pre-bid meeting for the school demolition that will be scheduled closer to the scheduled demolition of the school.
17	3/5/2024	Will there be another site visit for when the Demolition RFP comes back around?	Yes.
18	3/5/2024	Is there a hazmat report for the schools to be demolished?	An AHERA 6 month inspection dated September 13, 2023. Will be provided in the next addendum.
19	3/5/2024	I am reaching out in regards to this project, North East Middle-High School. I represent Industrial Louvers and we are specified. Do you have a list of bidders for this scope?	Louvers are in the 6A bid package, spec section 08 91 19. For a potential list of Prime Bidders by package reach out to HESS via NEMHS@hessconstruction.com.
20	3/5/2024	We also represent Vetrotech Saint Gobain for the fire rated. Do you have a list of bidders for that scope as well?	For a potential list of Prime Bidders by package reach out to HESS via NEMHS@hessconstruction.com.
21	3/6/2024	Wanted to ask if there should be a "A103C" included in the set because Building C has a third level. please provide	Drawing set is correct. Area C has 3 levels; 00, 01 and 02
22	3/6/2024	Please specify if the following door frames should be aluminum frames w/ wood doors or hollow metal frames w/ wood doors. B007A, B007B, B007C, D104A, D104B, D120A, D120B, F001A, F001B.	Frames are hollow metal

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
23	3/7/2024	Should the MV transformers (MS-XFMR and HS-XMF) be mineral oil or less-flammable insulating liquid (seed oil)? Spec section 261219 2.2.1 calls for mineral oil. But 2.3.G.6 requires compliance with FM Global Class No. 3990 (seed oil) and 2.3.G.7 requires less-flammable insulating liquid.	MV Transformers shall be FR3 Fluid Filled. Mineral oil will be removed from specification
24	3/7/2024	Regarding the 34kV Switchgear; please clarify whether the 34kV switchgear is to be vacuum breaker Metal-Clad switchgear or fused switch Metal Enclosed Switchgear. Gear is labeled as Metal-Clad on the riser but the individual sections are labeled with fused and unfused switches (Metal Enclosed). The only Spec section provided is labeled as Metal Enclosed, but within that section vacuum breakers and relays which would be for Metal Clad and Feeder Switch Sections which would be for Metal Enclosed are both discussed.	Will be addressed in forthcoming Addendum. 3/25/2024 UPDATE: Under Addendum #3, primary service has been revised. Campus primary cabinet/switchgear is replaced with (2) separate pieces of equipment. CT Metering cabinet by Utility and Pad-mounted switchgear by EC. Specifications shall be provided for pad-mounted switchgear under forthcoming Addendum. Basis of design is Eaton KPMT7B39.
25	3/7/2024	Please clarify what contractors should put on the bid form regarding alternate bids that do not pertain to our bid package. Would you like "0", "No Bid", "N/A" or for the space to be left blank?	Use " N/A"
26	3/7/2024	Please confirm who is responsible for the demolition of the existing school building? Is it the 31A Sitework package?	The demolition of the existing high school building will be a future bid package. The demolition of all other outbuilding structures, and all site demolition is part of the 31A sitework package.
27	3/7/2024	Please confirm if abatement or the removal of hazardous material will be required for the existing school building	Yes.
28	3/7/2024	Please confirm who is responsible for stripping, handling, and respreading the topsoil. Please define "respread" in the 31A SOW, Item 21, does this include topsoil?	32B is responsible per 32B SOW "Landscaping-Specific-Scope" Item 1 31A SOW item 21 refers to respreading of stockpile from other contractor's spoils REVISED RESPONSE: The 31A Contractor is responsible for stripping, stockpiling, protecting, stabilizing, respreading, and amending topsoil. See revised 31A and 32B work scopes ^{ADD#3}
29	3/7/2024	Please confirm who is responsible for root pruning, signage, etc. as it is stated in both the 31A Sitework and 32B Landscaping & Fencing scope of work. (31A SOW Earthwork Item 1 v.s. 32B SOW Landscaping Item 4)	Root pruning, signage, etc should be 32B SOW REVISED RESPONSE: Root pruning, signage etc is in the 31A Package ^{ADD#3}
30	3/7/2024	Please confirm that the 31A Sitework package does not include any stone base for the concrete or asphalt paving	CONFIRMED. Per 32A SOW they are to provide stone for their work
31	3/7/2024	Please confirm who is responsible for the Utility asphalt patch and striping for the waterline installation that goes through Irishtown Road. See SOW 32A Concrete Item 7.	32A is responsible per 32A SOW Concrete Item 7 and per Road and Parking accessories Item 5
32	3/7/2024	Please confirm who is responsible for furnishing and installing the sleeves / sonotubes for the retaining walls. (31A SOW Segmental Retaining Item 7 v.s. 32B SOW Fencing Item 5).	32B is responsible. 32B SOW needs to be updated to clarify Furnish and INSTALL REVISED RESPONSE: Sleeves/sonotubes will be furnished and installed by the 05A Contractor (for steel railings) and the 32B Contractor (for fencing). The 31A Contractor will work in coordination with these contractors while performing geogrid placement and backfill, and shall account for the sleeves/sonotubes in the wall engineering ^{ADD#3}
33	3/8/2024	After review of the attached notice, I did not see a Material Testing & Inspections scope being bid. Is there an opportunity for Specialized to propose services on this project?	Response will be provided in next addendum . REVISED RESPONSE: There will be a separate solicitation for 3rd party testing and inspections ^{ADD#3}
34	3/8/2024	Will a site logistics plan be provided?	Site Logistics, in terms of LOD and phasing requirements are within the civil drawings. Temporary roads and staging areas are described in the 31A work scope. Additional logistics will be coordinated with the prime contractors during construction phase
35	3/8/2024	Who is responsible for the geothermal field spoils?	23B contractor will place spoils in the stockpile area for spoils 31A is responsible for spoils pile

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
36	3/11/2024	Specification 00 45 28 – Prevailing Wage does not have Ironworkers or steel workers listed in the wage determination. Please provide a complete list including ironworkers.	Refer to attached MD Dept. of Labor letter dated 3/22/24 for wage rates indicated for Glazier, Ironworker-Structural, Painter, and Roofer/Waterproofer.
37	3/11/2024	Is there any steel support for the sign and/or brick for the Marquee Sign on A211?	Response will be provided in next addendum 03/18/2024: No Steel support is required.
38	3/11/2024	The bollard detail located on C-12 is not called out on any of the civil plans. Please provide locations and / or quantity of bollards required.	Bollards are shown on dumpster detail only.
39	3/11/2024	Which trade contractor is to pick up the metal swing gate on C-12?	32B SOW Item 3
40	3/11/2024	Please confirm there is only one location for the metal swing gate on C-12.	Metal swing gate is specified at connection of student parking and bus loop only.
41	3/11/2024	Specification 009000 – Specific Scopes of Work. Package 05A item 16 states to pick up aluminum & SS at trench drains. Package 23A item 45 states to pick up trough / trench drains (furnish & install a complete plumbing systems). Package 31A item 13 states to furnish and install trench drain, inclusive of angles and grating. Please advise on which package(s) is to pick up stuff at the trench drains.	31A SOW should own this work to Furnish & Install the site TDs
42	3/11/2024	Which trade package is to pick up the cast-in aluminum receiver and trench cover on detail A16/A427?	05A to furnish and 03A to install
43	3/11/2024	Stair 4 on details H12 & H18/A507, A/S403 shows it drawn as a cast in place concrete stair, but details called out on architectural drawings refer to page A505 which shows a steel pan stair. Please advise if this stair is a concrete stair or a steel pan stair.	Stair is a concrete stair. Details on A505 will be reviewed and modified where required in a future addenda.
44	3/11/2024	If Stair 4 is a concrete stair, how does the stringer attach to the stair? Or is the railing to be attached to the stair without a stringer? Please advise and provide details.	Per detail A/S404 connection detail of stringer to stair is to be provided by stair engineer.
45	3/11/2024	Is there a trade package 02A specific scope for this project? I did not see one in spec 00 90 00. Please advise.	The typical 02A package has been split up in several packages (31A, 32A, 32B)
46	3/12/2024	Verify the workbench in room B022 on sheet A800B is to use detail G18/A804.	Item is Furniture N.I.C.
47	3/12/2024	Verify 06B contractor is to furnish and install all LK5 and LK6 lockers.	Lockers are furnished and installed by 06A
48	3/12/2024	Provide details for table legs or similar at the end of peninsulas in science rooms. Currently no counter support or model number is shown.	Details will be provided in forthcoming addenda
49	3/12/2024	Is an epoxy resin sill/cap intended at non-window wall locations in science rooms? Similar to details D13 & G13/A804.	Sill cap is not required at non-window wall locations.
50	3/12/2024	Are we to include the scheduled casework shown under the counter at the millwork desk in room A100 on sheet A801A or include counter supports as detailed at G18/A805?	Provide scheduled casework as shown on A801A
51	3/12/2024	Low wall railings in the Auditorium on sheet A801D have the wrong call-out as A18/A809, this should be B13/A809.	Call out A18/A809 is correct.
52	3/12/2024	Is there a chase wall/wall cap intended at the window wall in room F107?	Yes. Chase wall/wall cap is similar to detail D13/A804. At F107 counter top and sill cap to be plastic laminate. 03/18/2024: Corrected response. Refer to Detail G13/A804. At F107 countertop and sill cap to be plastic laminate.
53	3/12/2024	Verify that package 05A is to furnish and install the steel pipe posts, flanges, plates and privacy screens at D10/A804.	The steel pipe posts, flanges, plates and privacy screens is to be furnished and installed by the 06B Contractor for a complete countertop installation
54	3/12/2024	06B specific scopes lists interior wood frames and jambs, closer kits, wood handrail and dark room door: None of these items can be found on the construction documents. Verify they are not part of the project.	VERIFIED
55	3/12/2024	Provide details for the temporary circulation desk on A012. What package is responsible to furnish and install this temporary desk?	Circulation desk will be movable furniture as is N.I.C.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
56	3/12/2024	Verify all gas fixtures in science labs are furnished and installed by package 23A.	CONFIRMED. These items are listed on the plumbing schedule drawing P901
57	3/12/2024	Verify there are 2 kilns, kiln hoods and kiln ventilators required for the project. The kilns are not scheduled on the plans.	Verified there are 2 Kilns. Kiln Hoods and Kiln ventilators are required. Items will be identified in plans in future addenda
58	3/12/2024	There are multiple line items in the 06B scope that refer to owning in-wall blocking. Verify that 06B only owns coordination of in-wall blocking. Blocking is by 06A.	All in-wall blocking is to be furnished and installed by the 06A Contractor. The 06B Contractor shall coordinate with the 06A Contractor to verify locations required and check installation prior to close-in.
59	3/12/2024	Verify Alternate #16 is for the seats only, not the balconies themselves.	Alternate is for seats only
60	3/12/2024	Verify that 06A shall furnish and install all “Vertical Acoustic Wood Planks AWP3” and “Vertical Flush Joint Linear Wood Planks” as well as the ¾” metal reveals in the Auditorium per the specific scope. Hardwood caps would remain part of 06B.	Confirmed
61	3/12/2024	Provide a detail for the millwork treads and risers at the stage front stairs.	Response will be provided in next addendum 03/18/2024: Treads and risers are RTF-4. Refer to Floor patterns on B18/A11A.
62	3/12/2024	Is wood base intended along the entire perimeter of the auditorium walls? 7A/A610 for reference.	Wood base is required as per finish schedule on A304
63	3/12/2024	Verify that Alternate #3 changes Base Bid Math room C021 into Pre-K C021. There is no additional room built alongside C021 Math in this Alternate.	Correct.
64	3/12/2024	B12/A423 indicates a window sill, but the detail is never called out on the drawings. Where does this detail belong? Is the sill intended to be solid surface?	Refer to wall section A5/A419. Material is Solid surface.
65	3/12/2024	We are an expansion joint manufacturer, and we would like to submit our products to be considered as an equal to the specified products for the North East Middle and High School project. I reviewed the specifications, and the substitution requests with the proper forms are attached for the products listed in Sections 079100 & 079513. Our products are a direct equal to those specified and will not require any changes to the project documents (with the possible exception of our inclusion in an addendum).	Decision on substitution request will be provided in future addenda. 03/18/24: Refer to Addendum 2 revised specifications for addition of products accepted as substitutions.
66	3/12/2024	There is no rate for the glazer in the wage scale.	Refer to attached MD Dept. of Labor letter dated 3/22/24 for wage rates indicated for Glazier, Ironworker-Structural, Painter, and Roofer/Waterproofers.
67	3/12/2024	Our scope referenced 07 21 60 - Thermal Break and this specification is not included in the documents.	This specification should be removed from the 04A and 08A SOW as there is no specification 07 21 60. Also page 253 and 299 of the Vol 1 specifications need to be updated to remove this specification
68	3/12/2024	All of the finish for the storefront and curtain wall calls for a Mica Finish. There is a blurb in 08 44 13 page 6 para. 2.3.b.4 that calls for clear anodized.	Item has been corrected. Refer to Addendum 2
69	3/12/2024	There is a requirement for the subcontractors to submit an AIA 305 Contractor Qualification Form. Can we provide this form?	Will be addressed in forthcoming Addendum.
70	3/12/2024	Do you have a start date for the greenhouse part of this project, or at least the end date?	green house is an alternate. If accepted at bid time schedule for green house construction will be determined in review of schedule for the project based on whether the 3 phase or 2 phase construction approach is accepted.
71	3/12/2024	DWG. A906-Alternates- Detail #A9 - Is Pre-K Classroom #C021-Detailed on A800 Series Drawing? No casework tags here.	No casework is required for Pre-K Classroom C021
72	3/12/2024	DWG. A903-Ticket Booth-Detail #A18 - C-Top on brackets, ledge needed at roll up door?	Refer to revised details on A903 in Addendum 3.
73	3/12/2024	DWG. A903- Concessions-Detail #A15 - C-Top on brackets, ledge needed at roll up door? C-Top (C8) on brackets?	Refer to revised details on A903 in Addendum 3.
74	3/12/2024	DWG. A804- Details (#J14, #D10 & #D7 - Please confirm that Pipe Support post, perforated material privacy screens are part of the 05 Contractor.	This is part of the 06B SOW

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
75	3/12/2024	DWG. A806-Detail #D18 & #L11 - Reference "Solid Surface Clad Partial Height Partition" but detail #H18 Notes "Painted Finish". Please clarify.	"Painted Finish" refers to gypboard wall only.
76	3/12/2024	DWG. A800B - M.S. Cafeteria B007-Lower right corner calls for Detail #J10/A804, however it looks more like a counter wall mounted. Please clarify.	Detail reference has been revised to D7/804
77	3/12/2024	DWG. A806-Room# C029 - Casework on North wall is not tagged. Is it the same as RM #C031?	Yes
78	3/12/2024	Please confirm that bathroom (framed) mirrors are not in the 8B scope.	CONFIRMED. They belong to 06A SOW Plastic Toilet Partition Item 2
79	3/12/2024	Is section 084500 to be included in the 8B scope? The section is listed at the top of the SOW, but no further detail is provided in the paragraphs below.	Yes. This is Alternate #5
80	3/12/2024	The following door frames are noted on the door schedule as being aluminum, but are labeled with hollow metal marks, please clarify: B007A, B007B, B007C, D104A, D104B, D120A, D120B, F001A, F001B.	Refer to response to RFI #22
81	3/12/2024	Glass type G14 is specified as having a laminated inboard lite with an opaque interlayer. The Glass Type Key describes the inboard lite as tempered spandrel. Which is to be used?	Glass type G14 as described in specifications.
82	3/12/2024	Detail A11/A421 shows .080" aluminum closure from the wall to the mullion. Which scope is to include this metal?	The pre-finished alum. Closure (080), should be provided by the storefront contractor. <u>AMENDED RESPONSE: To clarify, this work is to be provided by the 08B Contractor</u> <small>ADD#3</small>
83	3/12/2024	Details A7 and A12 on sheet A530 show a smaller piece of flashing under the window sill, and a large piece extending further to the exterior. Which scope(s) are to pick up these pieces of flashing?	The storefront high performance sill should be provided by the storefront contractor. The pre-fin. .063" alum. sill and pre-fin. metal panel type 4 below should be provided by the metal panel contractor.
84	3/12/2024	Regarding window types SP1 and SP2, on A312, the specified manufacturer Ready Access has stated that they do not manufacture this window type in custom sizes. The sizes available on their quote request form are listed below, please let us know which to use: 47.5" x 43.5" 35.75" x 35.75"	Revise dimensions of SP1 and SP2 to 47.5"x 43.5". Documents will be updated via addendum.
85	3/13/2024	Fixture type SLE4 shown on drawings L700 and L701 are overlapping and difficult to see. Please advise how many of these fixture types are needed or provide a clearer detail that better shows each symbol.	24 lights are required in this location.
86	3/13/2024	Division 274116 AV Performance Systems - The auditorium line diagram on AV601 shows 11 speakers and 3 subs in the left/right clusters and 14 speakers in the main cluster. Drawing AV901 indicates 9 speakers and 3 subs in the left/right clusters and 9 speakers in the main cluster. Which one is correct?	The line diagram on AV601 is correct
87	3/13/2024	Division 274116 AV Performance Systems - The drawings show projectors type 1 and 2, but the spec only lists a type 1. Please clarify.	Where in drawing documents Type 2 projectors are referenced provide Type 1.
88	3/13/2024	Division 274116 AV Performance Systems - The video monitors are listed on the line drawing as "Confidence", "Preview Type 4", and "Pit Monitor". The spec has "Flat Panel Type 1", "Flat Panel Type 2" and "Flat Panel Type 3". What monitors are supposed to be used in which places?	Flat panel type 1 = Confidence (Sharp/NEC E437Q) Flat panel type 3 = Preview & Program Dell SE2222H (The type (type 4) is shown incorrectly on the drawings, should be type 3) Flat panel type 2 = Pit Monitors (Beetronics 15VG7M)
89	3/13/2024	Division 274116 AV Performance Systems - The spec list Type 1 and Type 2 wireless but there are no quantities listed, only the receivers on the line drawing. What is supposed to be provided?	There should be (2) sets for the Type (1) Shure QLXD 124/85, and (6) of the Type 2 Shure QLXD 24/B58
90	3/13/2024	Per addendum 1, bidder must sign and submit Addenda with the proposal submission. The same person signing the Addenda acknowledgement(s) must sign the Bid Form. Would you like all pages of each addendum submitted with the bid submission or just the signed cover page?	Only include a signed Addendum cover sheet with your bid submission.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
91	3/13/2024	As mentioned per the Grimm and Parker Architect and Contractor for Transfer of Computer Aided Drafting (CAD) Drawing Files Agreement, the CAD/DWG Release Form, the Release Agreement for Digital Files on Electronic Media, the Alban Engineering, Inc., release of CAD Electronic Media form, as well as the Columbia Engineering, Inc., form, is it possible for an earthwork CAD file to be presented for sitework contractor bidding purposes of this specific project?	No
92	3/13/2024	Provide circuit feeding Y fixtures in corridor A02 on E100A.	E1L1A-8 (corridor circuit)
93	3/13/2024	Room A138 pm E101A shows (1) C2 fixture and (1) F fixture. Please clarify that this is correct. If not please indicate the correct type and quantities.	Type 'F'
94	3/13/2024	Room A135 on E101A shows (2) C2 fixtures and (2) F2 fixtures. Please clarify that this is correct. If not please indicate the correct type and quantities.	Type 'F2'
95	3/13/2024	Stairway STO3 on E101C shows type F fixtures, but other stairways show type FH fixtures. Please clarify that type F is correct for this stair. If not please indicate correct fixture type.	Type 'FH'
96	3/13/2024	Please confirm that un-named fixtures in rooms B207 and B211 are fixture type F2.	Type 'F2'
97	3/13/2024	Please confirm that light fixtures shown with a solid black dot indicate that they are to be provided with an emergency backup battery.	Refer to electrical legend. The only battery backup required is part of the Exit Signage, rest of project is generator based for emergency lighting.
98	3/13/2024	Please confirm that bid pack 26A is only responsible for spec section 13 21 48 as it relates to the electrical scope and not fully responsible for the entirety of the spec section.	Confirmed. This is in the 06B SOW Sound Conditioned Music Practice Room Specific Scope.
99	3/13/2024	Honeywell Fireline is the only fire alarm system noted. Will notifier also be acceptable.	Acceptable alternate manufacturers have been added through Addendum #1.
100	3/13/2024	Is Blue Star an acceptable alternate manufacture for the generator system?	Please submit formal substitution request for this manufacturers' equipment.
101	3/13/2024	Will the site work, site lighting, BBF/SBF lighting be broken out into phases? If so, please provide the delineation between the 2 phases.	The project phasing drawings are located in Vol 1 F-ESD drawings F-ESD-2 through F-ESD-13
102	3/13/2024	Please provide a specification on the Hand Hole boxes required for the Primary Service conduits?	Under Addendum #3, (2) primary service handholes have been removed from the Fire Pump transformer primary feeder run. Utility Primary Handhole Detail added to sheet E002. All other handholes shall be per detail 12/E501 and sized per conduit run.
103	3/14/2024	Is Simplex an acceptable alternative fire alarm system manufacturer?	Acceptable alternate manufacturers have been added through Addendum #1.
104	3/14/2024	On the FP Drawings all of Sprinkler Zone Control Valves are in the fire pump room. Can Zone Control Valves be located in the stairwells, supplied from the Standpipe Mains? This would eliminate the long runs of main back to the pump room and provide a substantial cost savings to the owner.	The fire protection system is a delegated design specification. The fire protection system shall be designed in accordance with NFPA requirements and the local Authority Having Jurisdiction. Confirm locations of Sprinkler Zone Control Valves with the architect.
105	3/13/2024	On S101B, at the elevator found between lines 5.5 to 5.8 and P.3 to P.7, the walls have details cut at two of the walls. Is framing not necessary on the remaining two walls? This is true of both elevators (sections B and F) at each floor, where some walls don't have any detail cuts. If additional cuts are needed, please revise showing the added details.	In typical conditions, elevator walls will be braced per P/S303. Additional details will be provided in forthcoming addenda if needed.
106	3/13/2024	Currently, the wording of item #19 is very open ended. Please revise this item to something similar to "Contractor shall provide shop installed beam penetrations where specifically shown structural drawings and approved by the structural engineer prior to bid." This way, during the bidding process we have a fixed number of shop installed beam penetrations at the time of the bid. Field penetrations can be costly depending upon where they are located and when they are requested.	Please clarify what Item #19 is referencing. If referencing Steel general note #7 on S001, CEI's response is as follows: For bid purposes, there are no openings structural steel beams. This note is in place to make sure no penetrations in beams are installed without CEI review and approval.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
107	3/13/2024	Item # 26 of the 5a Steel scope requires that the 5a contractor to cut all holes in the metal deck and then provide cover for those holes. Will you consider revising the scope, and have the floor/roof openings that do not require safety railing (larger than 2'x2') to be cut open by the trade contractor that requires the opening. This typically works well with minimizing protection requirements, lowering project costs and timing of the final work needed at the openings. Pour stop will be provided at all opening as required by the contract documents.	No. Scope remains as is.
108	3/15/2024	Please clarify whether 7A contractor is responsible for furnishing and installation of all 23A Mechanical contractor's equipment curbs and smoke vents.	Yes per line item 13 of 07A SOW <u>REVISED RESPONSE: The 23A Contractor shall provide all HVAC equipment curbs. The smoke vents shall be provided by the 07A Contractor as specified under 07 72 00</u>
109	3/15/2024	Roof Screening, RTU Screening, and built-up asphalt roofing items are not applicable to the project. Please provide clarification.	Remove these items from 07A SOW. Roof is TPO and there are no roof top screens shown on drawings
110	3/15/2024	Please confirm if the 3" cladding support system and metal panel system are included in the 7B metal wall panel.	The thermal break cladding support system as specified under 07 48 13 is to be provided by the 07B Contractor.
111	3/15/2024	Can you clarify what preformed joint seals outlined in spec section 07 91 00 the 3A bid package is responsible for and where they are to be installed? Per the 06A bid package, they are responsible for the furnish and installation of the expansion joint cover assemblies which would include the preformed joint seals.	Will be addressed in forthcoming Addendum.
112	3/15/2024	Scope item #1 of the 03A scope states "site concrete and any concrete outside the building perimeter is not part of this scope". The next sentence states "all structures requiring a footing or slab are to be provided by this contractor". This is very open ended. Can you clarify specifically what is to be included under this section beyond what is listed in scope item #36?	We can clarify 03A SOW to state "all structures within the building foot print requiring a footing or slab" Also update the 32A SOW to more clearly state they own ALL footing outside of the building foot prints: <u>REVISED RESPONSE: The 03A and 32A work scopes have been revised to clarify site features that shall be provided by the 03A Contractor.</u> ^{ADD#3}
113	3/15/2024	Can you remove the reference of sealers and hardeners from the 03A scope of work. Bid package 06A specific scope of work requires their bid package furnish and installs concrete floor enhancements for areas labeled CONC-1 and CONC-2 on the finish schedule. Per spec section 03 35 46.23 Concrete Floor Enhancements this includes sealers and hardeners.	YES
114	3/15/2024	Can you confirm that the deck will not require shoring prior to concrete placement? The structural steel is shown to be designed with 3/4" to 1" camber. Shoring will not allow for deflection of the structural steel.	Composite decks are designed as unshored. Refer to Concrete general note 17 on S001.
115	3/15/2024	Can you clarify that the 03A bid package is only responsible for below grade waterproofing applied to work installed by this bid package and the 04A bid package is responsible for waterproofing applied to their work?	Confirmed 03A SOW item 33 04A SOW item 18 SOW for both contractors can be clarified to state as it pertains to this contractor's work
116	3/15/2024	The prevailing wage rate sheet issued with the bid documents does not provide a rate for structural steel workers or iron workers. Can you provide a rate to use for these work classifications on this project?	Refer to attached MD Dept. of Labor letter dated 3/22/24 for wage rates indicated for Glazier, Ironworker-Structural, Painter, and Roofer/Waterproofers.
117	3/15/2024	On drawing L502, there are photos of fixtures for type EL-1, EL-2, and EL-3 light poles and heads. Please provide complete part numbers for these fixtures for pricing.	Updated product numbers have been provided as part of Addendum 3.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
118	3/15/2024	There is a general note on the lighting drawings that states “ All exit signage shall have audible buzzer activated/ powered via fire alarm system.” We have not seen this before and are concerned that the buzzer would interfere with the voice evacuation commands and would cause confusion. Please confirm that every exit sign in the building is to have an audible buzzer and be activated/ powered via the fire alarm system.	Will be addressed in forthcoming Addendum. 3/25/2024 UPDATE: Confirmed. Per owner request, intention is for exit signs to have audible buzzer controlled by the fire alarm system.
119	3/15/2024	Spec 009000 Submittals: This spec states that CADD documents may be available for use by this contractor for a fee TBD by the Architect. Since BIM is required on this project, shouldn't these be available at no extra cost to the contractors to avoid having to carry unnecessary costs?	Architect and its consultants fee for use of the CADD models is \$0(Zero dollars)
120	3/15/2024	Base Bid 1 Option: Without being able to invoice for any costs associated with Phase 2 or 3 until the beginning of Phase 2, please clarify which phase the following things fall under: Outdoor Site Lighting (E004), Baseball and Softball Field Lighting (E005), Concessions and Ticketing (E901), The Fieldhouse (E902), Geothermal North and South Buildings (E903), and the Greenhouse (E903).	Refer to Phasing plans in Civil drawings, indicating Phase Break lines
121	3/17/2024	The civil drawings call out proposed stairs on plans C-4 through C-6 with a callout to a detail on C-12. The detail on C-12 does not show railing. Please confirm that guardrails and handrails are NOT needed for the site stairs. If railing is needed for the proposed site stairs, please provide details and material callouts.	Handrails are needed for site stairs. Details for site stairs, including handrails, are shown on sheet L520. Bottom extension typical of site handrails is shown on detail E/L520. Handrail extension dimension is to be equal to tread depth.
122	3/17/2024	Is guardrail required at the retaining wall on C-5? If so, please provide details and material callouts.	Sheets L101, L102, and L104 call out guardrail atop retaining wall. Detail E/L530 indicates general dimensions for guardrail.
123	3/17/2024	There is a HSS column in Stair 1 tower supporting the mid landings with no details. It runs from Level 0 concrete slab to steel beam at roof level. Please provide size (including wall thickness) for column along with bottom and top connection details and materials.	Landing and roof steel beams supported to column per typical connection details, See A/S304. Details for support of tubes in exterior wall will be provided in addendum.
124	3/17/2024	05A specific scope item #16 states steel to pick up racks. Please specify and advise as to what exactly this is and detail number from drawings that apply.	Item has been removed from 05A scope
125	3/17/2024	05A specific scope item #16 calls out to pick up hangers for OTPT hooks. Please advise on details, drawings, and quantity for this item.	Item has been removed from 05A scope
126	3/17/2024	05A specific scope item #16 calls out to pick up yokes at spaces. Please provide details, drawings, and locations where this occurs.	Item has been removed from 05A scope
127	3/17/2024	05A specific scope item #4 calls out to pick up swing hook accessories. Please advise if this job has this item. If so, please provide details, drawings, and quantity.	Item has been removed from 05A scope
128	3/17/2024	05A specific scope item #13 calls out to pick up swing hooks. Please advise if this job has this item. If so, please provide details, drawings, and quantity.	Item has been removed from 05A scope
129	3/17/2024	05A specific scope item #16 calls out to pick up swivel hooks. Please advise if this job has this item. If so, please provide details, drawings, and quantity.	Item has been removed from 05A scope
130	3/17/2024	Can you confirm that the under slab drainage system shown in details 45, 46, 47, 48, and 49 on sheet P704 is to be furnished and installed by the 23A Mechanical and Plumbing bid package?	Confirmed These details are part of drawing P003 which belongs to the 23A contractor <u>AMENDED ANSWER: The 03A Contractor is still responsible for the drain tile at the base of concrete retaining walls</u> ^{ADD#3}
131	3/17/2024	Can a plan be provided showing the location of the under slab drainage piping and clean out locations?	Under Addendum #3, cleanouts have been indicated on under slab drainage plan.
132	3/17/2024	Contract Package 6A and 6B both have spec section 10 56 13.23 Cantivlever Metal Library Shelving. Please advise which scope package will be responsible for spec section 10 56 13.23 Cantivlever Metal Library Shelving.	06B SOW section "Cantivlever Metal Library Shelving Specific Scope"

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
133	3/17/2024	Will there be another wage scale added in a future addenda? No listing for the painters rate found on provided schedule. Please advise.	Refer to attached MD Dept. of Labor letter dated 3/22/24 for wage rates indicated for Glazier, Ironworker-Structural, Painter, and Roofer/Waterproofers.
134	3/17/2024	Please advise if Datum can be approved as an accepted manufacturer for Metal Canopies.	A substitution request in format described in contract documents was required for consideration.
135	3/17/2024	11 00 05- Misc. Equipment-Part 2 Matting for Catwalks: Basis of Design, Pawling Corporation; Punishment Pads P-50 or equal. Manufacture has no such product description or product number "P-50" listed. Please Advise	11 00 05- 2.1 Matting for catwalks, will be deleted from specifications. Documents will be updated via addendum.
136	3/17/2024	Numbered remarks on pages A309, A310, A311, A312 indicate where roller shades are to be installed and where louver blinds are NOT to be installed. Hollow metal frame note #5 indicates "horizontal blinds at all interior and exterior openings including door sidelites, but excluding door lites unless otherwise noted." Please confirm if blinds are required at windows that do not have a numbered remark?	Blinds are required at window frames that do not have a numbered remark.
137	3/17/2024	Please confirm the 6B scope package is responsible for Spec section 11 00 05, section 1.1D, 2-4?	Confirmed per 06B SOW Interior Architectural Woodwork Item 1, Appliances Item 2, and Miscellaneous Item 1
138	3/17/2024	Please confirm the 6A scope package is responsible for Spec section 11 00 05, section 1.1D, 1?	11 00 05 Miscellaneous Equipment, 1.1 D, item #1 "Matting for Catwalks" has been deleted from the project
139	3/17/2024	Confirm 06A responsible for providing dumpsters for all prime scope packages except 07A. If so, please advise on if a specific quantity of dumpsters can be specified for 06A to include as an allowance for 03A, 04A, 31A, 32A, & 32B scope packages.	Will be addressed in forthcoming Addendum.
140	3/17/2024	Please verify if 06A, 03A, or 05A will be responsible for supply / install of MOSH compliant: wire rope safety cable fall protection & slab diamond covers / protection around steel protruding thru concrete.	At concrete SOG diamonds, the 03A Contractor shall cover the openings upon completing SOG placement. The 05A Contractor will remove covers, and shall be responsible to provide safety measures until ready for the 03A Contractor to infill. At SOD edges, the 05A Contractor shall provide safety cabling. If/when the 03A, 04A, and/or 06A Contractor requires the safety cables to be removed in order to install their work, The contractor working the edge of SOD condition is responsible to install safety measures necessary to maintain OSHA compliance.
141	3/17/2024	Please verify if 06A or 07A will be responsible for supply / install of MOSH compliant parapet clamp guardrail systems at all roof parapets.	06A SOW section "Fall Protection" Item 7
142	3/17/2024	Please verify if 06A is responsible for providing 1 supervisor + 2 general laborers in addition to the 1 laborer manday / 8 worker manday onsite / week for CM clean up crew. Please also confirm a 2nd shift CM clean up crew / week specified in 06A scope package – Construction Waste Management Specific Scope Item #4 is not applicable to this project	Yes to 1st part. The additional 2 laborers will act as foreman under the supervisor to direct laborers provided by the other trades per the General Scope section "Clean Up" Item 2. We will only be 1 shift UNLESS the schedule begins to suffer REVISED RESPONSE: A 2nd shift clean up crew will not be required. ^{ADD#3}
143	3/17/2024	Please clarify whether 03A or 06A prime contractor is responsible for concrete floor enhancement for Conc- 1 & CONC-2 areas.	06A per section "Concrete Floor Enhancement"
144	3/17/2024	Please advise what type of temp floor protection is required for polished concrete floor areas.	There are no polished concrete floors; however, under Section 03 35 46.23, Pa
145	3/17/2024	Please clarify whether 06A or 07B is responsible for wood blocking / furring strips for metal panel scopes of work.	06A SOW which is stated in 07B SOW "Metal Wall Panel Specific Scope" Item #2 REVISED RESPONSE: No blocking for the installation of metal panels or cladding support system is required from the 06A Contractor. The 06A Contractor is responsible to coordinate with the The 07B Contractor for engineering purposes. The 07B Contractor is responsible for all strapping, girts, blocking (if required), cladding support system, and all other incidentals necessary for the installation of the metal panels. ^{ADD#3}
146	3/17/2024	Please advise if 06A or 04A is responsible for grouting of 06A hollow metal frames.	04A SOW Masonry Specific Scope Item 11

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
147	3/17/2024	Please provide further clarification on 06A Drywall Rough Carpentry & Acoustical Assembly Scope Package Item #16” particularly in regards to the required scope of work for “tenting of light fixtures”.	Will be addressed in forthcoming Addendum.
148	3/17/2024	Please verify 06A is responsible for providing a Level 4 finish or Level 5 finish at all drywall assemblies.	Provide Level finishes as indicated in 09 29 00.-3.7
149	3/17/2024	Please clarify whether 06A or 03A responsible for install of 05A supplied stair nosings.	06A SOW item 29- REVISED RESPONSE: The 03A Contractor is responsible to install nosings furnished by the 05A Contractor for stairs indicated within the building. For site stairs that require nosings, the 03A Contractor shall furnish and install. ^{ADD#3}
150	3/17/2024	Clarify verify 04A responsible for caulking interior & exterior side of 04A assembly control joints.	This pertains to masonry control joints only. AMENDED RESPONSE: Confirmed that the 04A Contractor is responsible to provide caulking for masonry control joints ^{ADD#3}
151	3/17/2024	Please confirm 06A is responsible for supplying & installing door hardware for 08B assemblies.	06A only furnishes per 08B SOW Item 3 and 06A SOW Doors, Frames, Hardware Item 2. 08B installs REVISED RESPONSE: For hardware associated with aluminum doors, the 06A contractor shall furnish to the 08B Contractor for installation. See clarified work scopes for additional information. ^{ADD#3}
152	3/17/2024	Please advise if there is a specific locksmith that 06A will be responsible for contracting to provide final keying services.	Will be addressed in forthcoming Addendum
152	3/17/2024	Please clarify if 06A or 11B responsible for supply / install of hook & loop mat hangers + coordinating wall padding, high impact corner guards for complete install as indicated on construction documents.	06A SOW Miscellaneous Specialties Item 9
154	3/17/2024	Please clarify if 06A or 05A responsible for supply & install of wire mesh partition scopes of work.	06A SOW section Wire Mesh Partitions
155	3/17/2024	Please provide further specifications / designs for custom graphic design that will be applied to Decorative Protection Panels.	Refer to Materials Schedule, sheet A305, and finish designations WC-1 through WC-7 and GWP-1 through GWP-4. The schedule outlines types of graphics and minimum number of colors for each of these. For WC-1 to -7, graphics will be picked from manufacturers standard custom mural program which includes stock imagery with ability to change colors and scale of selected imagery. GWP items are described in detail on schedule, see each line item for specifics.
156	3/17/2024	Please advise if 06A or another prime contractor is responsible for supply / install of Pergolas shown on sheet L502. If 06A responsible, please also clarify whether 06A or another prime contractor is responsible for furnish & install of footers required for pergolas.	06A SOW Site Amenities
157	3/17/2024	Please advise if 06A responsible for providing BIM coordinated drawings for Greenhouse, elevator, or any other 06A scopes of work.	Will be addressed in forthcoming Addendum.
158	3/17/2024	Please advise if an allowance amount can be added to 06A scope package base bid for material & labor price escalations throughout the duration of the project. If no allowance for price escalations can be added to 06A scope package, please advise if 06A could invoice for stored material costs for Phase 2 scopes of work to minimize the costs incurred by 06A for price escalations of Phase 2 materials.	Will be addressed in forthcoming Addendum.
159	3/17/2024	Please confirm the MBE Attachment B form in Spec 004339 are the correct version of MBE Attachment B Form that contractors are to submit with their bid.	Revised MBE Forms have been provided in ADD#3
160	3/17/2024	Please clarify if a particular prime contractor will provide final cleaning services for all other prime contractors for the entire project or if each individual prime contractor will be responsible for final cleaning services required for their applicable scopes of work.	Will be addressed in forthcoming Addendum.
161	3/17/2024	Please clarify if 06A or 26A is responsible for supplying of power supplies for electric door hardware.	Read 26A SOW Item 48- REVISED RESPONSE: The power supplies for the electric door hardware are to be furnished by the 06A Contractor, and installed/wired by the 26A Contractor. ^{ADD#3}

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
162	3/17/2024	Please advise if G-16 type glass will be covered by window shades?	Refer to frame elevations for glazing locations and where window shades are required.
163	3/17/2024	There are discrepancies between the finish schedule and RCP for the ceiling tile be advise whether to follow the finish schedule or the reflective ceiling plan? Examples: HS Café B001 Finish Schedule Calls for APC-3 / APC-4 / APC-5 /GYP but the RCP does not have APC-3 (2x4 Tile), Only has 2x2 APC-4. Corridor B02 Finish Schedule Calls for APC-2 which is 2x2 Tile but the RCP shows 2x4 Tile. MS Aux Storage B010 Finish Schedule Calls for APC-1 but the RCP Shows EXPOSED.	B001 HS Café (Cafeteria), ignore APC-2 (2x4 tile) B02 corridor, to be APC-1 (2x4) as shown on RCP B010 MS Aux Storage should be exposed, ignore APC-1
164	3/17/2024	Please provide further clarification and specifications for alternate Bid #4 – Front Canopy (Cantilever Curved Arbor).	Additional canopy information has been provided on sheet L523 as part of Addendum 3.
165	3/17/2024	Please advise who is responsible for the concrete footings required for the alternate Bid #4 – Front Canopy (Cantilever Curved Arbor).	06A. This is a Pergola canopy
166	3/17/2024	Please advise whether Hollow Metal doors and frames are to abide by “Buy American Steel” on the bid form?	Supply of all materials shall abide by all applicable State of Maryland procurement laws.
167	3/17/2024	Please advise what hardware door opening E107B is to receive?	Door #E107B should have Hardware Set 518.
168	3/17/2024	Please advise what hardware door opening XC06 is to receive?	At XC06- Provide Hardware Set 402 and Remark #23
169	3/17/2024	Please advise what minimum coating is to be applied to the interior doors and frames for 08 11 13 2.3, B-1- C; and 08 11 13 2.3, B-2-A.	Will be addressed in forthcoming Addendum.
170	3/17/2024	Please advise on alternates 14,15, and 17 if the doors, frames, and hardware to be included in base bid or on the alternates?	Doors frames and hardware are to be included. Refer to Addendum 1.
171	3/18/2024	This is a large project and we have asked multiple questions can the bid be extended?	Bid is currently scheduled for 4/4.
171		Hess pricing bid options shown on the Pre-Bid Meeting Agenda, calls for us to include High School demo in the base bid, but RFI Response #26 says demo of the existing high school will be in future bid pack. Please clarify if demo of high school should be included in the base bid for bid pack 26-A.	Will be addressed in forthcoming Addendum.
172	3/18/2024	Per the Bid Form and Specifications, we are to provide the Contractors qualification statement and AIA A305. Can you please provide AIA A305?	AIA 305 included in Addendum #3. Financial Statements will not be required at the time of bid, but will be required for review prior to contract award.
174		Please clarify that the SL8 Fixtures shown on the outside of vestibule A11 on Sheet E101A are for alternate #4.	Correct, SL8 fixtures are intended for the canopy and are not required if canopy is not provided.
175		Electrical Scope of work #2 – Construction Manager Trailer – can an allowance be give for this item? There is no way for us to know what the utility cost would be for electric and cable services until after award and discussion with appropriate utility providers. Furthermore, we wouldn't know how long we would need to provide temporary generators either for temporary service. Nor would we know how to estimate the monthly service bills.	Will be addressed in forthcoming Addendum.
176		Electrical scope of work item #3 – Temporary Power to Site- Can an allowance be given? We're being asked to carry all utility connection fees and temporary generators until permanent service is available. We have no way of knowing when the utility providers will be able to tun on permanents services to the site. The utility company will need the Electrical application completed prior to giving us an estimated date of service availability.	Will be addressed in forthcoming Addendum

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
177		Electrical Scope of Work #4 – can an allowance be provided for this? We have no way of knowing which trades will need what type of power and when they will need it. Also as mentioned above, we're unable to know when permanent services will be made available to the site. In your scope of work, we could potentially own an unknown power source for potentially elevators, crane, grinders, etc.	Will be addressed in forthcoming Addendum
178		Electrical Scope of Work #5- Same as 2,3,&4, above can an allowance be made? We have no way of quantifying what is to be estimated for work in this scope item.	Will be addressed in forthcoming Addendum
179		Scope of Work item #7 – Please clarify that this line item is intended only for temporary transition from temporary electric to temporary power or electric service shutdown needed during construction by the electric contractor.	Will be addressed in forthcoming Addendum
180		Electric Scope of work #14 states that all interior housekeeping, and equipment pads will be provided by the concrete contractor. Will they also provide exterior housekeeping pads for electrical i.e. generator and transformer pads etc.? Also, this scope item says in the event concrete pad is required and not shown the electrical contractor owns it. Please clarify where the pads are needed but not shown so that we may properly estimate the cost.	Will be addressed in forthcoming Addendum
181		Electrical scope of work item #15 – please clarify that all electric required by equipment and appliance contractors are indicated on project documents.	Will be addressed in forthcoming Addendum
182		Electrical Scope of work item #16 – Please clarify regular maintenance on all equipment is referring only to electrical distribution equipment utilized for HVAC Feeds.	Will be addressed in forthcoming Addendum.
183		Electrical scope of work item #27- Please clarify that all required escutcheons, pedestals, and the like for completed finish trim are indicated as needed in project documents.	Will be addressed in forthcoming Addendum. 3/25/2024 UPDATE: Confirmed, required escutcheons, pedestals, and similar for completed finish trim are included in drawings and specifications.
184		Electrical scope of work item #32 – Refers to painting and stenciling of conduits per specifications, however section 26 05 53 labels Identification of Electrical Systems refers to paint but doesn't tell us what needs to be painted and stenciled. Please clarify if it is required, if so, what is to be painted and stenciled and where is it located?	Labeling requirements are indicated in Spec Section 260553 - 3.2(A)-(P). Spec Section 260501 - 3.10 defines paint execution.
185		Please confirm Electric Utility is terminating the service conductors at the Utility poles.	Confirmed. Contractors are responsible for conduit extension to the poles.
186		Please confirm Secondary conductors from the Middle school, High School and the Fire pump transformer will be made of Copper, per the single line drawing E601.	Confirmed.
187		Please confirm the conductors from the Generator to ATS-1, ATS-2A, ATS-2B, ATS-3 will be made of Copper, per the single line drawing E601.	Confirmed.
188		Please confirm the conductors from the Generator docking station will be made of Copper , per the single line drawing E601.	Confirmed.
189		Please advise on how the HS service will be grounded/bonded to the Middle school service. Or will there be (2) standalone grounded systems.	The grounding system will be (1) complete system per NEC 250.58. Detail 1/#502 has been modified to reflect.
190		The Middle school secondary conduit bank detail #13 on drawing E501, shows 18 conduits in this bank, drawing E601 note #24 calls out for 14 conduits, are you requesting (4) conduit spares in this bank, please advise.	Intention is to provide 4 spare conduits. 18-way duct bank is correct.
191		Drawing E501 detail #11, which shows the Generator 120v circuits for the for the battery charger and miscellaneous loads is calling out to be fed from panel E1RIC, this panel is not on the single line, please advise.	Will be addressed in forthcoming Addendum

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
192		Specification Section 116143, Article 2.2 specifies various types of fabrics for curtains, i.e. 23oz, 13oz.... but does not provide a schedule that clarifies what fabric is to be used in the fabrication of the individual curtains. On the other hand, the Curtain Schedule depicted on Drawing TE001 lists 25oz fabric for all the curtains except for Lineset No. 28. Therefore, what fabric should we follow?	All drapers are 25oz velour except Lineset 28.
193		Specification Section 116143, Article 2.3, Paragraph A.8 states to provide lining for each curtain in same fullness as face fabric? Typically, the Valance and Front curtain would receive lining and the remaining curtains (cyclorama curtains) would not. Please clarify.	Please refer to Section 2.3.A.8.
194	3/19/2024	The two-part phasing plan for the North East Middle / High School project is incredibly challenging for many reasons, but one of the most concerning issues pertains to lighting, lighting controls, fire alarm, gear, PA, etc. material packages. Our understanding is that that the owner will be unable to pay for any materials that are part of phase 2 until it begins. Our concerns/questions are as follows: We will have to buy all material packages up front in phase 1 to hold pricing and availability of the products. Will we be guaranteed to be paid the cost of these materials in phase 2?	Will be addressed in forthcoming Addendum.
195	3/19/2024	26A Scope of Work #2 & #3- These state the 26A contractor is to include the utility company connection fees for the temporary services. The owner or CM usually picks this cost up, so it is difficult for us to price this competitively. It also states the 26A contractor is responsible for the monthly service bill for the construction manager's trailer. Can these charges be paid for by the owner/ CM or could you provide an allowance for it?	Will be addressed in forthcoming Addendum.
196	3/19/2024	Which trade is responsible for the generator equipment pad?	Will be addressed in forthcoming Addendum.
197	3/19/2024	Which trade is responsible for fire-rated plywood in the telecom closets and/ or electrical closets?	Will be addressed in forthcoming Addendum.
198	3/19/2024	Alternate Bid No. 5- Which trade is responsible for the translucent wall cladding system and back lighting	Will be addressed in forthcoming Addendum.
199	3/19/2024	Alternate Bid No. 14, 15, and 17- Per the base bid, all of the rooms listed in these alternates are N.I.C. Please confirm that we are not to carry any pricing for lighting fixtures, lighting controls, fire alarm devices, telecom/AV prices, branch circuit power, wiring devices, or any wall rough-ins for these rooms as part of our base bid.	Will be addressed in forthcoming Addendum.
200	3/19/2024	Which contractor is responsible for the dog houses shown for rooftop penetrations?	Will be addressed in forthcoming Addendum.
201	3/19/2024	Drawings E002 and E003- On these drawings, there are "HH" handhole shown at various locations. Some are in line with the primary duct banks and others are in line with branch circuit panel feeders. The only detail found is Detail #12 on E501 which is an exterior junction box detail. Usually, the utility companies have their own sizing and standards for these. The specs also talk about two different types, pre-cast concrete ones and fiberglass ones. Please provide more details on the handholes shown on these drawings to include types and sizes required.	Under Addendum #3, (2) primary service handholes have been removed from the Fire Pump transformer primary feeder run. Utility Primary Handhole Detail added to sheet E002. All other handholes shall be per detail 12/E501 and sized per conduit run.
202	3/19/2024	Drawing E003, Note 1 calls for (2) direct buried conduits for the primary feeders. Detail #1 on E503 calls for (2) 5" direct buried conduits. Please clarify what size conduits are to be installed for the primary feeders and verify that these are not to be concrete encased even if shown under a parking lot.	Under Addendum #3, Generator accessory circuits have been added to Panel E2R0B AND E2L0B to accommodate either voltage. Detail 11/E501 has been revised to match.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
203	3/19/2024	Spec 260548 Seismic Controls- This spec tends to add a fair amount of unnecessary and costly measures that are usually not required for this part of the country. This spec has been removed from some previous projects in a cost saving effort. Please confirm if we are to adhere to this spec.	Seismic Control Specification can be removed.
204	3/19/2024	Spec 282300- This spec calls for a “complete conduit system” for the Video Surveillance system. In an effort to cut costs, could this be changed to allow J-hooks above accessible ceilings and conduit in exposed locations only?	Structured cabling related to the CCTV does not have to be a complete closed conduit system. See TY501 for pathway details. Structured cabling can follow the pathways of other structured cables in the facility. (J-hooks, cable trays, sleeves, etc.,)
205	3/19/2024	Spec 260543.2.2.C.3- This specs calls for the use of concrete warning planks. These are very costly and not shown on any of the direct buried details. Please clarify if the proper use of the burial marking tape as shown on the details will be acceptable without the use of these planks.	Proper use of underground warning tape as indicated in details and Spec Section 260553-3.1(T) is acceptable without the use of concrete planks.
206	3/19/2024	Spec 260519.3.3.G- This states that MC Cable may only be used in 6' lengths and not from lighting fixture to fixture. Please confirm that the base bid does allow the use of MC Cable where not exposed for all branch circuits, lighting, and fire alarm.	Confirmed.
207	3/19/2024	Spec 260533.3.1.B.3- This states that GRC is required in mechanical rooms and boiler rooms due to them being exposed and “subject to severe physical damage.” These rooms really aren't subject to severe physical damage. In a cost saving effort, could EMT conduit be acceptable these rooms?	Yes, EMT may be used in lieu of GRC in mechanical and boiler rooms.
208	3/19/2024	Stage Curtains 116143-7/2.1 Curtain Schedule does not match Curtain Schedule TE001 and TE401. There is a line set numbering issue and discrepancy on the quantity of empty linesets between the 2nd Electric and 3rd Electric.	Please refer to Section 2.3.A.8.
209	3/19/2024	Confirm the TE001 Curtain Schedule Track Lengths are to be disregarded as they do not match the rest of the TE documentation.	All curtain and track widths should be 60'.
210	3/19/2024	Please identify which Stage Curtains 116143 require lining. Confirm the lining is BLACK vs TBD. Confirm lining is to be polyester to match the polyester fabric face fabric, not cotton per 2.2C.	All lining should be black.
211	3/19/2024	Reference TE001 Curtain Schedule and 116143-7/2.1 Curtain schedule and adjust. The current design intent appears to be dead hung linesets not LIFT. We need to verify which linesets require tracks and bi-parting operation.	All rigging is dead hung.
212	3/19/2024	Reference 265561-11/2.6 Lighting Fixtures and Accessories. Provide quantities.	B. Assorted Color Gels (Qty. 30)
213	3/19/2024	Reference 116143. Verify the Cyclorama is to be constructed from SEAMLESS IFR TREVIRA MUSLIN which is only available in white.	Color is white.
214	3/19/2024	Verify if the Theatrical Lighting System infrastructure is CAT5e per TE601 Belden 1573A or CAT6 per 265561-4/1.8C1.	Use manufacturers specified data cable.
215	3/19/2024	Verify if the Theatrical Lighting Control Console is ETC GIO@5 per 265561-11 or EOS APEX 5 per TE601. If the console is a GIO @5 then define the channel count as 4K or 24K per 265561-10/2.4A1.	Refer to drawing TE 601. The EOS APEX is noted.
216	3/19/2024	Reference TE601 and confirm the 'IPAD ANDROID APP' is to be installed on an Owner Furnished Device and that a new IPAD is not in the 265561 contract scope.	The IPAD will be Owner furnished.
217	3/19/2024	Reference TE601, TE901 and confirm all CS and CS1 devices are ETC Paradigm Inspire and not ETC Unison Heritage per 265561-11/2.4C	Use the Unison Paradigm Inspire Control Stations.
218	3/19/2024	Reference 265561-11/2.5C. Confirm the ColorSource Raceways mounted to the 8' tormentors are 8' long per TE902 and not 10' long per the specification.	Refer to sheet TE501 detail #4. The raceways are 96".

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
219	3/19/2024	Reference 265561-11/2.5D+E and TE902. Verify if the ColorSource Raceways mounted at the Front of House / Catwalk locations are 56' or 60' or another length.	See Drawing TE 902 (56').
220	3/19/2024	Reference E709, TE601, TE902, 265561-11/2.5E. Verify if the FOH2 ColorSource Raceway is to accommodate 4-20A circuits or 3-20A circuits.	3 ckts at 20A.
221	3/19/2024	Reference E709, TE601, TE902, 265561-11/2.5A1a: Verify if the Second Electric is to accommodate 8-20A circuits wired on 16-20A Edison receptacles or 6-20A circuits.	See drawing TE 601.
222	3/19/2024	Specification 265561-3/ 1.8 SYSTEM(S) DESCRIPTION AND REQUIREMENTS states this Theater Lighting System accommodates 48 dimmable circuits and 16 non-dimmable circuits. This isn't supported by equipment detailed on TE601 and the TE001 Circuit Schedule. Please advise.	Refer to drawing TE-601.
223	3/19/2024	E709 LDR panel schedule is populated to circuit 57/60 with an overall capacity of 84 single pole circuits. The ETC IQ48 has a capacity of 48-20A 120V single pole circuits as detailed on TE001. Please advise	See Drawing TE-601. There are (47) circuits.
224	3/19/2024	TE601 details 0-10v control signal outputted from the ELTS device sourced with DMX control signal. This is not a current design feature of the specified ETC SC1008. Verify if 0-10v control signal is required in the Theater Lighting System and it can be added to the IQ48.	Provide 0-10 control as noted on TE601.
225	3/19/2024	E709 requires a 400A MCB on LDR not detailed on TE601. Clarify if a 400A MCB is required on the ETC IQ48 as LDR.	Provide 200A Main for the LDR.
226	3/19/2024	E716 Panel Schedule E1RPF includes 8 circuits identified as eLTG for the Auditorium or Stage. Confirm only (4) of those circuits are managed by the Theatrical Lighting System per the (4) SC1008 specified on TE601.	See TE 601 (4 circuits).
227	3/19/2024	The TE601 riser indicates X17 sourcing ELTS. Please add (1) ETC DEBC-6 and (1) ETC EBDK to manage emergency DMX control signal associated with the ELTS.	Provide DEBC and EBDK.
228	3/19/2024	Reference 265561-12: How many pattern holders are required in contract for the specified metal stock gobos.	Will be addressed in forthcoming Addendum
229	3/19/2024	Reference 116143 Stage Curtains. Verify no center overlap is required for the Curtain Travelers as none seems to be specified. Overlap of 24" is specified for the associated track assemblies.	Provide 24" overlap.
230	3/19/2024	Reference 116143-8/2.2 Stage Curtains. Verify KM Fabrics' IFR 24oz Charisma with its opaque matte finish is acceptable.	Charisma fabric is acceptable.
231	3/19/2024	Confirm (4) Tormentors and associated wiring devices are required per the TE drawings as they do not seem to appear on A609 and A610.	See TE 601. The tormentors are required.
232	3/19/2024	We were planning on bidding the 11B and 12A packages but see a requirement for an AIA Document A305-Contractor's Qualification Statement. This seems like quite an extensive form to fill out for a bid and also requires our company to include our past three year's financial statements, which we are not willing to submit and have them become public knowledge. The form must also be paid for through AIA to avoid copyright infringement. Is it possible for this requirement to be waived for the smaller packages or potentially only required to be submitted to Hess if we are being considered for award on the project?	Will be addressed in forthcoming Addendum.
233	3/19/2024	07B and 07A scopes include roof screen walls, are the screen wall panels only to be included in 07B scope?	Will be addressed in forthcoming Addendum.
234	3/19/2024	07B and 07A scopes both mention they are responsible for moisture and/or air barriers at the exterior, there are no material specification sections for these products included in our scope. Are the moisture and air barriers by others?	Will be addressed in forthcoming Addendum.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
235	3/19/2024	07A scope item #13 says they are responsible for roof curbs, equipment supports, pipe and duct support, this is uncommon. Are these curbs and supports to be furnished and installed by others?	Will be addressed in forthcoming Addendum.
236	3/19/2024	07B spec calls for soffits, are the soffits to be included in 07B scope?	Will be addressed in forthcoming Addendum.
237	3/19/2024	Are there details for different roof types? Roof types not identified on roof plan for acoustical decking and non-acoustical decking, metal roofing at concession vs metal roof on main roof.	Reference Roof Deck Plan on Sheet S003 for roof deck types. Refer to note on Roof Plan on Sheet A105 for standing seam metal roof at main building. Refer to Sheet A903 for standing seam metal roof notes for Tickets and Concessions buildings. Refer to Sheet A905 standing seam metal roof notes for Dugouts.
238	3/19/2024	Is there any roof work at the existing Field House? A901	Will be addressed in forthcoming Addendum.
239	3/19/2024	There is an alternate for the green house. Does this mean the Concession, Ticket Booth, Geothermal North, Geothermal South, Dugout are all included in the base bid? Is the dugout drawing on A905 typical of two total dugouts?	Will be addressed in forthcoming Addendum.
240	3/19/2024	Is the illuminated cladding alternate in the 07B scope of work?	Will be addressed in forthcoming Addendum.
241	3/19/2024	Can you provide a prevailing wage scale rate for "Roofing"?	Refer to attached MD Dept. of Labor letter dated 3/22/24 for wage rates indicated for Glazier, Ironworker-Structural, Painter, and Roofer/Waterproofer.
242	3/19/2024	Is the EIFS work to be included in 07B scope? Specification is listed but no mention in scope of work. Is this EIFS work only located at temporary walls in phase 1 of the base bid? No EIFS work in Alternate with continuous construction of phase 1 and 2?	Will be addressed in forthcoming Addendum.
243	3/19/2024	[P002B, P303B] Piping serving bathrooms B004, B005 shows five (5) connections for six (6) lavatories	Will be addressed in forthcoming Addendum
244	3/19/2024	[P401] Notes 3 and 4 appear to be mismatched.	Corrected under Addendum #3
245	3/19/2024	[P605] Please confirm Water Hammer Arrestors are not required for the x2 P8 fixtures on this diagram.	Not Confirmed. Water hammer arrestors are required for P8 fixtures. Added under Addendum #3
246	3/19/2024	[P403] Notes 2 and 3 appear to be mismatched.	Corrected under Addendum #3
247	3/19/2024	[P100A, P601, P607] P607 shows room A012 with a fixture P3A, but P601 and P100A show a P5.	P5 is correct. Corrected under Addendum #3
248	3/19/2024	[P608, P100A] P608 shows room A028 with a 4" FD-A, but P100A shows a 3" FD-B.	4" FD-A is correct. Corrected under Addendum #3
249	3/19/2024	I have questions - regarding Greenhouse (alternate #2) section 133413: 1.1 A notes to include doors & hardware but there is no written spec in the greenhouse section. On drawing A906 notes greenhouse doors as H601 A & B and also in masonry portion as H602 & H603.	See response to RFI #250
250	3/19/2024	These doors are not listed on the door schedule on drawing A306 & A307. With over 200 doors on the project, it makes sense for the overall door supplier to include these doors but if the greenhouse supplier is required - we need a spec for the doors, sizes and hardware.	The door schedule for the outbuildings, including the greenhouse, is on sheet A900. Doors H601A and H601B are identified as part of the greenhouse enclosure, and are to be provided by the greenhouse supplier. Doors H602 and H603 are HM doors in masonry, and are to be provided with the rest of the door package.
251	3/19/2024	2.15 E - Notes gaskets in the glazing system. Are gaskets required? If required are they required for roof and wall glazing or just roof? We typically do not use gaskets with 8mm polycarbonate.	Provide gaskets as indicated in the contract documents.
252	3/19/2024	3.3 J - references an "Atlas" vent machine. We would like to use motors supplied by Wadsworth, which is the same supplier as the environmental controller specified. Is this an acceptable "or equal" or do we need to go through the substitution format?	Where "or equal" is listed, a substitution request is not required. The product will be evaluated at the time of submittals.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
253	3/19/2024	3.7 - Retractable shade/heat retention curtain system; The system specified is a manufacturer specific "proprietary" design that is a group of parts supplied by the specified greenhouse manufacturer. We would like to use a system supplied by Wadsworth which is the environmental controller brand specified. Is this an acceptable "or equal" or do we need to go through the substitution format?	Where "or equal" is listed, a substitution request is not required. The product will be evaluated at the time of submittals.
254	3/19/2024	3.8 A - Bench top Drip Irrigation, "Each bench shall be controlled individually by the environmental control system". I don't believe that one EnviroStep can control 20 benches individually along with the other equipment. Should we add a controller specifically for the irrigation system?	Provide a sufficient quantity of controllers to satisfy the control requirements.
255	3/19/2024	3.12 Benches. Is there a bench layout for these 20 benches? Also, we recommend anchoring the legs to the floor as the narrow width is easy to tip - especially in a school setting.	Bench layout has not been documented.
256	3/19/2024	3.13 - Emergency Power. Not sure what we are to do with this information?	Greenhouse will be removed from emergency power requirements. Specs will be updated via addendum.
257	3/19/2024	Volume #1 Specs - Page 244 - Number 20 states that we (23A) will furnish AND install all access doors and frames. Volume #1 Specs - Page 319 - Number 5 states that we (23A) will furnish access doors and frames for installation by 06A contractor. Which is correct?	Will be addressed in forthcoming Addendum.
258	3/19/2024	Volume #1 Specs - Page 242 - Miscellaneous Scope, Number 1: Please define Engineering and what Engineering will be required for the 23A scope.	Will be addressed in forthcoming Addendum.
259	3/19/2024	Volume #1 Specs - Page 244 - Number 29: Can this scope be assigned to 07A – Roofing scope of work and not in "other" trades scope of work?	Will be addressed in forthcoming Addendum.
260	3/19/2024	Volume #1 Specs - Page 323 - Number 45: Please define the temporary measures that will be required.	Will be addressed in forthcoming Addendum.
261	3/19/2024	Spec: Metal Ducts (23 31 13) Duct Schedule: Supply spiral pipe runouts to ceiling diffuser and diffuser boxes. Metal Duct Schedule: (3.10) Supply Ducts (e) Provide double wall ductwork for all supply air ductwork connected to water to air heat pump units. Question: Is it the Engineer's intent to run spiral double wall lined with perforated metal liner from the mains to the diffusers? HVAC Insulation 3.13 Duct Schedule: Indoor, concealed <u>supply</u> and <u>outdoor</u> ducts to be wrapped. (Conflicting Spec. If the intent is to use duct wrap, we assume this ductwork should not be lined. Or please have the Engineer of record provide a responsibility matrix showing what ductwork systems require duct wrap vs. ductwork to be lined, since the drawings and specification are contradicting themselves.	Round concealed runout ducts serving single diffuser plenum boxes shall be externally insulated single wall type. Sound lined ductwork shall be provided where specified.
262	3/19/2024	Please show and spell out all piping expansion loops, guides and anchors on the HVAC and Plumbing drawings.	Will be addressed in forthcoming Addendum
263	3/19/2024	Please provide sizes of piping mains on the HVAC drawings...every HVAC drawing is lacking with pipe sizes.	Will be addressed in forthcoming Addendum
264	3/19/2024	What does Note #3 mean on drawing M201A – between columns H&G, 4.5.	Referenced drawing note bubble should be Note 1. Revised under Addendum 3
265	3/19/2024	Please provide a list of all attic stock that will be required and quantities for each item.	Refer to the specification requirements.
266	3/19/2024	Per Vol. #1 Spec, page 320 of 1058, note #13, please confirm all concrete pads will be by the concrete subcontractor. If pads are not shown, however will be required, please show / locate these concrete pads on the design drawings.	Will be addressed in forthcoming Addendum.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
267	3/19/2024	Per Vol. #1 Spec, page 320 of 1058, note #14, please all architectural louvers, including door louvers will be furnished and installed by another trade.	Will be addressed in forthcoming Addendum.
268	3/19/2024	Please indicate what trade will be responsible for painting all exposed ductwork and piping? If 23A is responsible for painting exposed materials, please indicate all items to be painted.	Will be addressed in forthcoming Addendum.
269	3/19/2024	Please provide a list of all owner supplied equipment.	Refer to schedules on A800 for N.I.C. items
270	3/19/2024	Per Vol. #1 Spec, page 323 of 1058, note #42, please provide a bid allowance for this scope of work, since there are items not shown on the contract documents and will be required for this the 23A scope of work.	Will be addressed in forthcoming Addendum.
271	3/19/2024	Per Vol. #1 Spec, page 323 of 1058, note #44, please provide a better scope of work for this effort. It is hard to price up two different scopes within one directive.	Will be addressed in forthcoming Addendum.
272	3/19/2024	Per Vol. #1 Spec, page 323 of 1058, note #48, please provide drawings for the complete radon sub-slab ventilation system	There is no under slab radon system in the documents.
273	3/19/2024	Per Vol. #1 Spec, page 323 of 1058, note #49, please re-write this scope to say: Furnish and install all fire dampers as shown. If drawings are incomplete and do not shown all fire dampers, please provide a bid day allowance for fire dampers not shown associated with this scope of work.	See Addendum 3 for fire damper locations.
274	3/19/2024	Please provide a detailed explanation of the “Harmonic Analysis” associated with the VFD’s required by the Engineer of Record for this project.	The VFD manufacturer is required to develop this project specific harmonic analysis report per the specification requirements.
275	3/19/2024	Per Spec, 23 05 00-19 + 22 33 00-1, 1.6 Warranty, please confirm this scope will be a requirement for this project: Contractor shall provide five (5) year parts and labor warranty for all refrigeration systems (i.e., water source heat pumps, split systems/condensing units), including loss of refrigerant. Extended warranties for specific components, equipment and/or systems are individually indicated within the specifications.	The basic warranty shall be provided as well as additional extended warranties for individual items shall be provided as specified.
276	3/19/2024	Per spec 23 05 00-21, Lintels, if Lintels will be in the 23A scope of work, please show all required lintels on the HVAC & Plumbing drawings.	Will be addressed in forthcoming Addendum.
277	3/19/2024	The HVAC specifications is unclear if duct cleaning by a professional service is a requirement, please indicate if we are to use a certified / professional company to provide duct cleaning for all of the ductwork within these buildings.	Duct cleaning/cleanliness is defined is spec section 233113.
278	3/19/2024	Per spec section 23 05 00-27, 3.34, Liquid Level Alarm Sensors, please show where all drain pans and leak detection will be required for this project.	The Mechanical Contractor is responsible for quantities, the specifications indicate locations where liquid level alarms are required.
279	3/19/2024	Per spec 03 05 29-6, 3.2 Equipment Supports, please indicate if the 23A package will require structural steel for our Equipment. If so, please show and provide details for this scope of work.	Refer to mechanical detail sheets for equipment support information. HESS to coordinate bid package scoping.
280	3/19/2024	Per specification 22 05 33 – Heat Tracing. Please indicate if this scope will be a requirement for 23A, If so, please shown heating tracing on systems, within the HVAC & Plumbing drawings.	The specifications indicate heat trace applications.
281	3/19/2024	Per specification 22 11 16-14, Water Meters, please indicate if water meters are required for this project, if so, please indicate where on the HVAC & Plumbing drawings they are located. If required and not shown, please indicate where required and associated sizing.	Will be addressed in forthcoming Addendum.
282	3/19/2024	Do all HVAC & Plumbing systems carrying pressurized liquid need to have pitch/ fall and not horizontally level? If so, can you please provide a detailed scope explanation for our BIM coordination process?	All piping will have pitch/fall to allow drainage of the systems without leaving dead water spots. Pitch/fall is defined in respective piping specifications. HESS to coordinate bid package scoping.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
283	3/19/2024	Per specification 22 14 13-4, 3.3, E please indicate what and where an encasement is required for our scope of work.	Encasement of underground storm water pipe is not a requirement.
284	3/19/2024	Per drawing P003, the drawing shows interior under slab drainage, however this drawing does not show the exterior below wall grade drainage. Is the exterior wall underground drainage in our 23A scope of work or is this scope by others. If this scope is to be in the 23A scope, please show all required work on this drawing.	Will be addressed in forthcoming Addendum.
285	3/19/2024	Please refer to spec section 23 09 00-1, Part 1, 1.2.D. – it stated we will need to use a Johnson Metasys System (sole source), however if you also refer to spec section 23 09 00-9, Part 2, 2.2.A, it states we are to use a Tridium/Honeywell – Control System. Can we use both for this project? If no, which manufacture does the owner want to use for this project?	The project is Johnson Sole source. References to Honeywell/Tridium are not applicable and is NOT an option.
286	3/19/2024	We respectfully request that AAON products be added to the list of acceptable manufacturers for Custom Water Cooled Energy Recovery Units. AAON offers significant value and will meet or exceed the project requirements.	It is too late to evaluate additional requested manufacturers without appropriate accompanying information for review. This is not a very feasible request at this point.
287	3/19/2024	Is it possible for the AIA Document A305-Contractor's Qualification Statement requirement to be waived for the smaller packages or potentially only required to be submitted to Hess if we are being considered for award on the project? If this is not possible, would it be possible to submit this statement without the financial statements and only provide those if we are being considered for award?	Will be addressed in forthcoming Addendum.
288	3/19/2024	Phase 1 of Base Bid 1 has the gym being constructed but what will be the Middle School gym is to be fit out as temporary classrooms during Phase 2 construction. Can it be assumed that all gym equipment and bleachers can be installed during Phase 1, as the hoops/curtain could be raised up and bleachers closed?	Will be addressed in forthcoming Addendum.
289	3/19/2024	Bid Package 12A includes Section 12 00 05 – Miscellaneous Furnishings which has Loose Upholstered Seating for Auditorium and Study Carrels for rooms A144, A163 and B102. Can these items be provided by the 06A – General Trades bid package in lieu of the 12A – Fixed	Will be addressed in forthcoming Addendum.
290	3/19/2024	Section 116623, paragraph 2.3.A.1. specifies #3103 rear-braced, forward fold backstops but the drawings indicate 3107 front-braced, forward fold backstops. 3107 backstops will be necessary for the (1) HS gym basketball backstop with a batting cage located behind it, the (2) MS gym side court basketball backstops nearest the operable wall and the (3) basketball backstops on the plan north side of each gym due to the main HVAC runs. Can it be confirmed that all backstops should be 3107 front-braced, forward fold to maintain symmetry with all hoops?	Confirmed. All backstops will be 3107 front-braced, forward fold backstops. This will be updated in the specs via addendum.
291	3/19/2024	Section 116623 specifies the basketball hoop winches, archery net and batting cage to be operated by a TSC1500 group control system, as does Section 116653 for the divider curtains, but E200A mentions key-switches for the archery net and batting cage and there is not a clear indication of the operation for the basketball hoop winches or divider curtains. Should this equipment be operated by the TSC1500 group control system or key-switch? If controlled by the TSC1500, can you confirm (2) keypad locations are required, one for the HS gym and one for the MS gym?	Confirmed - equipment to be operated by TSC1500 control system. Provide two keypad locations, one in the HS gym and one in the MS gym.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
292	3/19/2024	Section 116623, paragraph 2.3.A.5. specifies only AFRG42 backboards but drawing A800, PE Equipment item P4 states to provide 934 wood backboards at the side baskets. 934 wood backboards are no longer made, these could be 1342B fiberglass backboards or 1272B steel backboards but these are only about \$100 less expensive than AFRG42 backboards. Can it be confirmed all backboards should be AFRG42 as specified in <u>Section 116623?</u>	Confirmed. All backboards will be AFRG42 as indicated in the specs. This will be updated in the drawing schedule via addendum.
293	3/19/2024	Section 116623, paragraph 2.3.B. does not specify a height for the wall padding but the drawings indicate the padding to be 6'-1 ½" high. Standard wall pads are 6'-0" high and this additional 1 ½" of height will increase the cost of the padding by about 20%. Can 6'-0" high padding be provided in lieu of the 6'-1 ½" high padding shown on the drawings?	Confirmed. 6'-0" tall wall pads can be provided.
294	3/19/2024	Drawing A601, detail A18 indicates removable padding to be provided over the mirrors in the auxiliary gym. It would be assumed this padding would need to be mounted above the mirrors, making them 7'-6" high, which will provide enough Velcro attachment surface to hold the top of pads in place and run to the floor for additional support when in place. Can you confirm the padding in front of the mirrors in the auxiliary gym should be 7'-6" high and attached at the top with Velcro and use the floor for additional support?	Wall pads at the mirrors in the auxiliary gym will need to be tall enough to mount above the mirror, with velcro provided above the mirror for attachment, min 7'-6". It is acceptable to use the floor for additional supports.
295	3/19/2024	Section 116623, paragraph 2.3.C. specifies only enough volleyball equipment for (2) courts but it would be possible to potentially have (5) courts used at one time (2 regulation in the HS gym and 3 non-regulation in the MS gym). Based on this it would be assumed that (4) winch uprights, (3) anchor uprights, (3) competition volleyball nets with boundary markers/net antenna, (3) custom length volleyball nets with boundary markers/net antenna, (7) upright pads & (2) storage carts would be necessary. Can you confirm the quantity of volleyball equipment should be as previously mentioned in this RFI?	Additional volleyball equipment should be provided to concurrently run 5 games of volleyball. Specs will be updated via addendum.
296	3/19/2024	Section 116623, paragraph 2.3.F. specifies Senoh floor sleeves for volleyball but paragraph 2.3.C. specifies Jaypro volleyball equipment. Can it be confirmed that the volleyball floor sleeves and equipment can be provided by any of the approved manufacturers in paragraph 2.1.A.?	Will be addressed in forthcoming Addendum.
297	3/19/2024	Section 116623, paragraph 2.4.A.2. does not specify a height of the archery net, which are generally 10 to 12 feet high. Can you confirm the height of the archery net to be provided?	Provided archery net to be 10' tall.
298	3/19/2024	Section 116623, paragraph 2.5.A. specifies a 4080-70 batting cage but does not state to provide Option 1, single lift point, or Option 2, dual lift point. Can you confirm if Option 1 or Option 2 model 4080-70 batting cage should be provided (cut sheet attached for reference)?	Provide Option 2, dual lift point.
299	3/19/2024	Drawing E200A does not indicate a power supply or key-switch for the mat hoist specified in Section 116623, paragraph 2.6. Can a power supply and key-switch be provided for the mat hoist?	Under Addendum #3, mat hoist electrical provisions have been shown in Aux Gym A001.
300	3/19/2024	Section 116643, paragraph 2.3 does not specify a quantity of control consoles to be provided, it is generally recommended that one per scoreboard be provided or a total of four on this project. Can it be confirmed that four control consoles should be provided, one for each scoreboard?	Confirmed, provide 4 control consoles.
301	3/19/2024	Section 116647 does not specify a quantity of shot clocks to be provided. Can it be confirmed that only two shot clocks are required, one mounted to each main court basketball hoop in the HS gym?	Confirmed. Provide 2 shot clocks, one mounted to each main court basketball hoop in the HS gym.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
302	3/19/2024	Section 126100, paragraph 2.3.B. specifies chair mounting standard material in steel, cast metal and molded plastic but elsewhere in the spec it calls for only cast metal standards. Can it be confirmed that the standards should be cast metal and not steel or molded plastic?	Will be addressed in forthcoming Addendum.
303	3/19/2024	Section 126100, paragraph 2.7.D. specifies T2m folding laptop tablet arms and drawing A801D only indicates tablet arms at the first two rows of fixed seating. Can it be confirmed that tablet arms are only to be provided at the first two rows of fixed seating at the main level of the auditorium?	Confirmed. Provide tablet arms as indicated on A801D.
304	3/19/2024	Section 126600, paragraph 2.2.B.3. specifies 22" row spacing but the open dimensions of the 7 row bleacher and 15 row bleacher reflect 26" row spacing. Can it be confirmed the row spacing should be 26"?	Provide 22" row spacing as specified.
305	3/19/2024	Section 126600, paragraph 2.2.B.4. specifies row rise between 11 and 12 inches but the elevation drawings indicate 16" row rise. It would be recommended that the row rise be 9-5/8", as this will extend the life of the bleacher because with higher rises there is a large open space between each seating row which will allow people to climb the bleacher much like a ladder and lead to deck sag, which will cause binding as the bleachers age. Can it be confirmed that the row rise for the bleachers should be 9-5/8" (nominal 10" rise)?	10" nominal rise is acceptable for HS gym bleachers. 16" nominal rise is required in MS gym to maintain line of sight. Specifications will be updated via addendum.
306	3/19/2024	Section 126600, paragraph 2.2.B.8.b. specifies limit switches but each gym will receive a wood floor, which does not require limit switches for proper operation of the bleachers. Can it be confirmed that limit switches are only required, as recommended by the manufacturer?	Confirmed - provide limit switches as recommended by the manufacturer.
307	3/19/2024	Section 126600, paragraph 2.3.C. specifies 3/4" thick decking when all the approved manufacturer's utilize 5/8" thick decking. Will 5/8" thick decking be acceptable?	Will be addressed in forthcoming Addendum.
308	3/19/2024	Section 126600, paragraph 2.5.A. specifies FSC certified wood but not all approved manufacturers can provide this type of decking, which is more expensive than standard decking. Can it be confirmed that FSC certified wood is not a requirement for the bleachers?	Will be addressed in forthcoming Addendum.
309	3/19/2024	The 7 row bleachers in the HS gym are indicated as 84'-6" long but if these were reduced by 1'-6" to 83'-0" they can be provided much more economically in only three sections per side. Can the 7 row bleachers in the HS gym be reduced in length to 83'-0"?	Provide bleacher length as indicated on the contract documents.
310	3/19/2024	Can the working hours shown in the drawings be adjusted to allow for a 10 hour work day?	Will be addressed in forthcoming Addendum.
311	3/19/2024	Can the bid be extended?	Will be addressed in forthcoming Addendum.
312	3/19/2024	Can I get a list of subs for the 11B package?	Will be addressed in forthcoming Addendum.
313	3/19/2024	Scoreboard specs 11 66 43 and 11 66 47 list Daktronics, Nevco and Sportable. Can we bid Fair-Play?	A substitution request in format described in contract documents was required for consideration.
314	3/19/2024	Are outdoor scoreboards in any of these packages? Or will outdoor boards be in a future separate bid?	Will be addressed in forthcoming Addendum.
315	3/20/2024	Please clarify which packages are to carry the following in their proposals pertaining to the theatrical equipment: Rigging Systems and Controls, Stage Curtains, Theatrical Lighting Systems. We have had previous projects where the 6A contractor purchases all of these and the 16A contractor is responsible for pathways and wiring only. The theatrical lighting spec almost reads like it bids separately or at a later time. Please clarify.	Will be addressed in forthcoming Addendum.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
316	3/20/2024	Please clarify if Belden is an approved manufacturer for copper/fiber cabling.	Belden is approved for building copper wiring. For Telecomm wiring, per Div 27, structured cabling must meet the performance specification. If the selected Belden product meets the performance specification, then it would be acceptable.
317	3/20/2024	The scoreboard spec 11 66 43 says Daktronics or equal by Nevco or Sportable. The scoreboard spec does not say equal product by other manufacturers by substitution request are allowed. Substitution requests during construction are allowed only if the need arises. Am I spinning my wheels submitting a substitution request?	Substitutions requests are allowed subject to the requirements of the documents.
318	3/20/2024	31A – Sitework Questions: 1.00 41 00 Bid Form Pages 4 – 6 Unit Prices – There several unit prices that are below current industry standards. We propose the following changes: SEE ATTACHMENT	Will be addressed in forthcoming Addendum.
319	3/20/2024	00 90 00-31A – Package 31A-Sitework Scope Item #6 – Is the layback limit responsibility for the 31A contract based on the middle school slab subgrade elevation then a 2:1 slope back into the area of the high school?	Will be addressed in forthcoming Addendum.
320	3/20/2024	00 90 00-31A – Package 31 A Sitework Scope Item #8 – The wood piles mentioned to be removed are they existing or part of the potential sheeting & shoring for the new school construction?	Will be addressed in forthcoming Addendum.
321	3/20/2024	00 90 00-31A – Package 31 A Sitework Scope Item #17&18 - Can RC-6 be used in lieu of CR-6?	RC-6 can be used as a base material under asphalt, concrete, or pavers as long as the submittal demonstrates that the product meets the requirements of CR-6.
322	3/20/2024	00 90 00-31A – Package 31 A Sitework Scope Item #17&18 - Can the temporary stone be incorporated below subgrade and remain?	Temporary stone must not be abandoned in place in areas that are to be vegetated. Temporary stone abandoned in place under proposed pavement is acceptable.
323	3/20/2024	00 90 00-31A – Package 31 A Sitework Scope Item #21- Can an allowance and unit price be added to the bid form to be incorporated into the base bid amount for other trade spoils?	Will be addressed in forthcoming Addendum.
324	3/20/2024	00 90 00-31A – Package 31 A Sitework Scope Item #23 – Which out buildings are the responsibility of the 31A contractor to demolish?	Will be addressed in forthcoming Addendum.
325	3/20/2024	Can a site demo plan be provided showing what is required to be demolished?	Will be addressed in forthcoming Addendum.
326	3/20/2024	What is the 31A scopes responsibility in regard to the pump houses?	Will be addressed in forthcoming Addendum.
327	3/20/2024	Can alternate be listed for spreading trade spoils onsite based on a set quantity and a unit price provided by the contractor?	Will be addressed in forthcoming Addendum.
328	3/20/2024	Which trade is responsible for the 48SF project sign?	Will be addressed in forthcoming Addendum.
329	3/20/2024	Which trade is responsible for termite control?	Will be addressed in forthcoming Addendum.
330	3/20/2024	Plan Sheet F-ESD-18 & 19 - Details are given for MBR 1-5 but it does not list the detail for MBR-6, which section should that use?	Section for MBR-6 is shown on sheet F-ESD-38.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
331	3/20/2024	<p>There are several issues with the storm drain that need clarification or additional information: Missing Profiles (size & type) Pipe Runs P12 P43 P95 P111 P112 RD to I-58 and intersecting SD RD to I-13 Temp pipe w/ no label (size?) No info on “to and from” I88 I46 I67 Unlabeled Structures Sheet F-ESD-11 Roof drain shown to be installed in phase 1. Phase 2 shows unlabeled pipe and 2 inlets. Need clarification/info. Conflicting Info: P-103 Called 6" PVC on ESD 5 Plan view. Called 8" Steel pipe on Sheet ESD 30 Profile. Need clarification.</p>	<p>Roof drain tie ins were not profiled. P-12 is a roof drain that ties into P-11 from the existing restroom building (see profile on sheet F-ESD-30a). Size and material information now provided for P-12 and P-10.</p> <p>P-43 and P-95 are profiled on sheet F-ESD-29. P-111 and P-112 are profiled on sheet F-ESD-30b.</p> <p>The RD to I-58 has been revised. The roof drain shown shall be installed in phase 2, not phase 1 (layer issue resolved). 2 unlabeled pipes and inlets are now labeled. See sheet F-ESD-11 or C-23.</p> <p>Temp. structures and pipe now have labels on sheet F-ESD-9.</p> <p>I-13 is profiled on sheet F-ESD-30, label for roof drain tie in has been added.</p> <p>I-88 is profiled on sheet F-ESD-29 with two pipes labeled in the profile, the third pipe that ties in from the building is profiled on sheet F-ESD-30a.</p> <p>I-46 and I-67 are profiled on sheet F-ESD-28.</p> <p>Label on sheet F-ESD-5 has been updated to call P-103 out as 8" steel pipe.</p>
332	3/20/2024	31A – Asphalt & Site Concrete Questions: 1.00 90 00-32A – Package 32A Asphalt & Site Concrete Scope Item #5 – Can allowance with a unit price be added to the bid form for Base Patching prior to Surface Paving? There is no way to quantify how much patching will be required for damage caused by other.	Will be addressed in forthcoming Addendum.
333	3/20/2024	00 90 00-32A – Package 32A Asphalt & Site Concrete Scope Item #9 – m – Mow strip at fencing is in both the 32A & 32B scope. Which trade is responsible?	Will be addressed in forthcoming Addendum.
334	3/20/2024	00 90 00-32A – Package 32A Asphalt & Site Concrete Scope Item #9 – l – Flagpoles are in both the 32A & 32B scope. Which trade is responsible?	Will be addressed in forthcoming Addendum.
335	3/20/2024	Which trade/s are responsible for the bocce ball courts?	Will be addressed in forthcoming Addendum.
336	3/20/2024	Basketball goals are listed in both the 32A & 32B scopes. I do not see any basketball goals on the plans. Are there any and which scope is responsible?	Will be addressed in forthcoming Addendum.
337	3/20/2024	The paving limits for Irishtown road are not clear on sheets RS-2 thru 4. Can a better plan/s be provided showing clear limits?	The RS sheets are not a part of this bid.
338	3/20/2024	Section 27 15 01 2.1 - Is there any Color code for Cat6 and Cat6a Cable and Jack for data, voice, wireless access points, cctv and others? Please provide if any.	Sheet T500, Detail 10.
339	3/20/2024	T500, T501, T502, T503 -The drawing shows Cat 6A only for Patch Panel. Please confirm if this a mistake and Cat6 cable will be terminated in a Cat 6 Patch panel.	All patch panels shall be rated for Cat 6A cables.
340	3/20/2024	T500- Please confirm if fiber core switch will be provided by Telecommunication Contractor.	Network switching electronics are by owner. Some items are owner provided contractor installed. See Section 27 20 01 for specific information.
341	3/20/2024	REVD2024-2- 23_2023-12-22_Vol 4 SPECS_NEMHS Bid Set Please confirm who will provide the WAP. Statement from Div 27 does not match.	WAPs are owner provided, contractor installed. See Section 27 20 01 for specific information.
342	3/20/2024	What is the prevailing wage for "Communication Technician"	Refer to attached MD Dept. of Labor letter dated 3/27/24 for wage rates indicated for Glazier, Ironworker-Structural, Painter, and Roofer/Waterproofer.
343	3/20/2024	DWG. A906-Alternates- Detail #A9 - Is Pre-K Classroom #C021- Detailed on A800 Series Drawing? No casework tags here.	Refer to response to RFI 71

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
344	3/20/2024	DWG. A903-Ticket Booth-Detail #A18 - C-Top on brackets, ledge needed at roll up door?	Refer to response to RFI 72
345	3/20/2024	DWG. A903- Concessions-Detail #A15 - C-Top on brackets, ledge needed at roll up door? C-Top (C8) on brackets?	Refer to response to RFI 73
346	3/20/2024	DWG. A804- Details (#J14, #D10 & #D7) - Please confirm that Pipe Support post, perforated material privacy screens are part of the 05 Contractor.	Refer to response to RFI 53
347	3/20/2024	DWG. A806-Detail #D18 & #L11 - Reference “Solid Surface Clad Partial Height Partition” but detail #H18 Notes “Painted Finish”. Please clarify.	Refer to response to RFI 75
348	3/20/2024	DWG. A800B - M.S. Cafeteria B007-Lower right corner calls for Detail #J10/A804, however it looks more like a counter wall mounted. Please clarify.	Refer to response to RFI 76
349	3/20/2024	DWG. A806-Room# C029 = Casework on North wall is not tagged. Is it the same as RM #C031?	Refer to response to RFI 77
350	3/20/2024	On dwg. A012-Phase 1 Temporary Conditions, Detail #A8-M.S. Media, Who is to provide “Temporary Media Circulation Desk-Stevens Furniture”.?	Refer to response to RFI 55
351	3/20/2024	Under 06B Scope of Work, Item #1 in “Interior Architectural Woodwork, Casework, and Millwork Scope, Lists that we are to provide “Interior Wod Frames and Jambs”. Please clarify what this is?	Will be addressed in forthcoming Addendum.
352	3/20/2024	Under 06AB Scope of Work, Item #3 in “Interior Architectural Woodwork, Casework and Millwork Scope”, states “Contractor shall furnish and install the stage/platform wood edge, proscenium, and any wood paneling called for in the theater”. However, the drawings call for “Vertical flush joint linear wood planks which is part of Specification 097853, which is under the 06A Contractor. Please clarify.	Will be addressed in forthcoming Addendum.
353	3/20/2024	Under 06B Scope of Work, Item #12 notes that we are to furnish mounting clips/kits for all sinks not furnished and installed under this scope. Doesn't the sink typically come with mounting clips?	Will be addressed in forthcoming Addendum.
354	3/20/2024	Under 06B Scope of Work, Item#13 notes the 06B Contractor is to furnish and install “ In- Wall” blocking is typical by 06A Contractor. Please clarify	Will be addressed in forthcoming Addendum.
355	3/20/2024	Under 06B Scope of Work, “Appliances Special Scope”, Item #1-to provide commercial washer & dryers, “Belco” is specified for the dryer, they will only sell direct to school systems. Can we use “UniMac”.?	Additional acceptable products for the athletic washer and dryer are E4 - UniMac UWT085V4, E5 - UniMac UT075NVN. Documents will be updated via addendum.
356	3/20/2024	Under 06B Scope, Misc. Equipment Scope, to Furnish & Install “Handicapped access darkroom door”. Please clarify where this is?	Will be addressed in forthcoming Addendum.
357	3/20/2024	On Details #D10, #J14, on DWG. A804, calls for “Pop-up outlet, see electrical.” Please confirm these are supplied by the electrical contractor and that the 06B Contractor is providing a cut-out for that.	Will be addressed in forthcoming Addendum.
358	3/20/2024	On Details #D7, #D10 and #J14, on DWG. A804, please confirm the steel pipe and accessories are by the steel contractor.	Will be addressed in forthcoming Addendum.
359	3/20/2024	Detail #G9/A804 calls for Fabric Wrapped Cushions on benches. Do you have the manufacturer and color of this fabric?	Refer to Addendum 3 for additional information regarding the referenced fabric.
360	3/20/2024	Spec. Section 064023 Notes “ Face Frames” for Wood Casework in Library, is this required?	See documents
361	3/20/2024	Specification Section 116143, Article 2.3 Paragraph M indicates grade 80 chain is required. Grade 80 chain is not used in dead-hung supports due to the size and shape of its links. ¼” Grade 30 chain is typically used to suspend dead-hung items over a stage as it greatly exceeds the minimum safety factors required for static loads. Please advise	Use the specified Grade 80 chain.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
362	3/20/2024	The Curtain Schedule on Drawing TE001, Set No's. 10, 16, 23, 28 and 29 depicts "Lift" in the column for Method. Please clarify	System is all Dead Hung.
363	3/20/2024	The Curtain Schedule on Drawing TE001, Set No. 4 depicts "Lift / Draw" in the column for Method. Please clarify.	System is all Dead Hung.
364	3/20/2024	The Curtain Schedule on Drawing TE001, Set No. 5 depicts "Aircraft Cable" in the column for Method and is not in concert with the other Electric Sets. Please clarify.	System is all Dead Hung.
365	3/20/2024	Specification Section 116143, Article 2.3 entitled Rigging offers different options in the way you can install the rigging linesets. For example chain, cable..... It is permissible to hang the battens with grade 30 chain in lieu of ¼" cable?	Use as specified.
366	3/20/2024	The Curtain Schedule on Drawing TE001, suggests that all the linesets are to receive track except for linesets 2 and 21 as noted in the Track Length Column. This is not typical to what we generally see where only sets with curtains receive tracks. Therefore, please clarify what sets are to receive curtain tracks.	Line 2 is a projection screen no track, and 20 as corrected is an empty, For more details on the projection screen please refer to the AV drawings.
367	3/20/2024	The Blackout Curtain (Set No. 29) depicted on the Curtain Schedule on Drawing TE001 notes that the curtain is to be fabricated with 25% sewn-in fullness. Please clarify if this is correct.	See drawing TE 001.
368	3/20/2024	The Bid Form says that we have to include the "Plan for Utilization of Minority Business Enterprises (If available)" was listed, please clarify if this form is required for submission and if so please provide the form. (It was not included)	Will be addressed in forthcoming Addendum.
369	3/20/2024	The bid form asks for the Contractors Qualification Statement & AIA A305 to be attached with the bid. There are (5) Exhibits referenced in the AIA A305. Can we postpone completing AIA A305 until after the bid submission? The Document asks for redundant information such as references and past projects and it asks for our company financials to be given and available at that point to anyone in possession of our bid.	Will be addressed in forthcoming Addendum.
370	3/20/2024	Electrical scope item #21, we take exception to this note since the conduit routing was on the drawings and were bid like so.	Will be addressed in forthcoming Addendum.
371	3/20/2024	Electrical scope item #42, we also take exception to this note because we do not know exactly what and where the electrical utility is and what size conduit and wire. Can an allowance be provided for this item?	Will be addressed in forthcoming Addendum.
372	3/20/2024	Is the Electrical Contractor providing the floorboxes? Symbol sheet says "by others"; is that the Technology vendor? If the Electrical Contractor is furnishing, then please provide a part number for the "D" floorboxes shown on T101E/E201E in Room E107	See T504 and Section 27 05 00 for floor box and poke through information related to the technology scope of work. HESS to coordinate bid package scoping.
373	3/20/2024	Will Building Demolition Contractor be responsible for the site demolition in the existing courtyard?	Will be addressed in forthcoming Addendum.
374	3/20/2024	Please advise if the existing buildings to be demolished have basements.	Will be addressed in forthcoming Addendum.
375		Please reference Specification 31 20 00. Paragraph 3.24 states that satisfactory soil is to be transported to a designated storage area on owner's property. Can you please provide the location of this area? Is it anticipated this material can be stockpiled or will it need spread?	Will be addressed in forthcoming Addendum.
376	3/20/2024	Will the Building Demolition Contractor be responsible for removing the stone under the existing building slabs?	Will be addressed in forthcoming Addendum.
377	3/20/2024	Spec section 00 45 28, Prevailing Wage Section, does not contain a wage scale for painters. Please provide further clarification.	Refer to attached MD Dept. of Labor letter dated 3/22/24 for wage rates indicated for Glazier, Ironworker-Structural, Painter, and Roofer/Waterproofer.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
378	3/20/2024	Wallcovering WC-1 thru WC-7 are custom murals, pattern TBD. Typically, price for custom murals can not be obtained from manufacturer before digital images and field-measured dimensions are provided to them. Please advise if these should be excluded at this time.	These are a standard custom program by manufacturer. See Materials Schedule for description. To be included in pricing and contact manufacturer's rep: Jennifer Calhoun for pricing/quote information. She can provide the information needed for pricing. jennifer.calhoun@nationalsolutions.com 703-206-8824 800-222-1028
379	3/20/2024	Please advise where Spec Section 09 96 00 – High Performance Coatings Exterior, Section 3.6.B Concrete Substrates, Horizontal Surfaces, Epoxy Non-Slip Deck Coating System is to be used	Will be addressed in forthcoming Addendum.
380	3/20/2024	On A305 Material Schedule, Finishes WD-3 Stained Top Cap & WD-5 Stained Wood Base, both are to match the doors in the Auditorium. Please advise if these items are in painter's scope for field finish, and if so please advise on wood species and stain color.	See interior stained door specification for wood species and stain color.
381	3/20/2024	Please confirm Paint color marked PTD-13 SW 6884 Greenblack should be PTD-14 SW 6994 Greenblack	Yes, corrected color number should be SW 6994 Greenblack
382	3/20/2024	Please advise Paint color marked PTD-15 should be SW 7069 Iron Ore or SW 7674 Peppercorn	To be SW7069 Iron Ore
383	3/20/2024	Several Paint colors (PTD-3, PTD-4, PTD-5, PTD-7, PTD-9, PTD-10 & PTD-11) list Acoustical Panels in Material column. Please advise if these Acoustical Panels are field finished	Yes, these are field painted acoustical panels.
384	3/20/2024	Please confirm Window Sill shown is Solid Surface and does not receive field finish	Refer to RFI-064 Response.
385	3/20/2024	The preliminary construction schedule has no mention of the Alternate #2 greenhouses start or completion dates. This information is critical to the subcontractors pricing this portion of this project. Please clarify	Will be addressed in forthcoming Addendum.
386	3/20/2024	Please confirm that Alternate #4 pertains to the Front Pergola (Manufactured by Icon) and not 10 73 10 Protective Covers (Mapes).	Correct.
387	3/20/2024	Please clarify the acoustical wall panel types (dark shaded and light shaded) on A609 and A610.	Unclear question - the vertical line shaded shapes are all acoustical wall panels. Anything with a wood grain is part of the architecture. All shaded acoustical panels are shown at 2'-0" x 2'-0" or 4'-0" x 4'-0" and 4'-0" x 8'-0".
388	3/20/2024	Please provide specification for AP- 5 .	See Specification Section 09 84 00.01 (Polysonics)
389	3/20/2024	Please provide specifications for AP 6B and AP 6C.	See Specification section 09 84 00.01
390	3/20/2024	Please confirm that the verbiage "protective covers" and "canopy" refers to the spec section 10 73 10: Protective Covers.	Will be addressed in forthcoming Addendum.
391	3/20/2024	Please clarify which prime contractor is responsible for the scaffolding "dance floor" in the theater for all the ceiling and high work to be performed by the different trades. Also clarify the duration this scaffolding will be required. It would not make any sense to have all trades cover the scaffolding in their individual scope package.The theater will have the scaffolding set up and removed by 4 different prime contractors.	Will be addressed in forthcoming Addendum.
392	3/20/2024	Drawing A305 Material Schedule list WC1 through WC7 as wall murals at several loctions and list the manufacture to be used as National Wall Covering. No specifications found in 12 10 13 for this manufacture. This spec section only list 3m products to be used for the murals.Please provide manufacture specifications and model numbers for these products. Also which prime contractor is responsible for the install of these products.	Refer to Section 09 72 00.
393	3/20/2024	Please provide panel depth for APC 5 and APC 6 Blades.	APC5 is a convex (dimensional) wall panel, see specification section 09 84 00.01. AP6's are fabric wrapped panels, see specification section 09 84 00.01

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
394	3/20/2024	Detail J4/A308 is a hollow metal mullion with a 1” frame face. This is the only hollow metal mullion profile like this in the details on Sheet A308. Other mullions like H3 and J5 on Sheet A308 have an industry standard 2” frame face. All the hollow metal frame elevations on Sheet A312 show all the mullions with the J4 detail dimensioned with a 2” face like H3 and J5. We note this an expensive hollow metal frame profile to make on a mullion. Given the increased expense to manufacture this profile and the dimensions shown on the frame elevations, we request to make the J4 detail with a 2” frame face to maintain a consistent look on the hollow metal frames. Please advise.	2” frame face is acceptable. Detail J4/A308 will be updated via addendum.
395	3/20/2024	Special frame elevations SP1, SP2 & SP3 on Sheet A308 are drawn that appears to be a hollow metal borrowed light frame with 2” frame faces, and a sliding glass kit attached between the vertical mullions of the frame; however, details H9, H12, K9, K12, L9 & L12 on Sheet A421 show the sliding glass kit to installed attached to the wall. Please clarify if there is to be a hollow metal frame holding the sliding glass kits because the glass on one or both sides of the sliding glass kit is to be 1/4” thick and 1” thick insulated per the glass type key. If so, please provide more details.	Frames SP1, SP2 and SP3 are manufactured frames. Refer to response to RFI 84 Also refer to specifications sections as follows: SP1, SP2-reference 10 00 05. 2.5, SP3-reference 10 00 05. 2.4
396	3/20/2024	Section 08 14 16 ¶2.3-D-2 specifies that doors between classrooms are to be a minimum of STC52. Does this apply to the doors into the Science Prep Rooms B209, G304, G312 and G316 and Kiln Room D113? Please advise.	Doors listed in the RFI are not required to be a minimum STC52 rating.
397	3/20/2024	Does the statement all Music Room Doors and Practice Room Doors in Section 08 14 16 ¶2.3-D-2 include the Music Offices E102 and E110, Instrument Storage E105 and E113, and Band Equipment E114? Please advise.	Doors listed in the RFI are not required to be a minimum STC52 rating.
398	3/20/2024	We request that all doors intended to be STC rated be specified as such in the door schedule. This would greatly assist in eliminating guesswork about questionable rooms and whether they are classrooms or not. Please provide.	Will be addressed in forthcoming Addendum.
399	3/20/2024	We have not found any doors in the door schedule specified to be Aluminum Flush Doors per Section 08 11 16. Please advise if this correct or provide a revised door schedule specifying them	Aluminum flush doors are indicated in the Door Schedule.
400	3/20/2024	Doors A154 and A158 are not marked on the floor plan. Please advise.	Doors are doors at rooms HS NURSE OFFICE - 154 and MS NURSE OFFICE - 158. refer to A101A for room locations.
401	3/20/2024	6A Scope of Work, Fall Protection/Safety Specific Scope, Note #4 – can this scope of work be assigned to 5A Contractor as this is typically done by the steel contractor as they are setting steel and metal decking?	Will be addressed in forthcoming Addendum.
402	3/20/2024	6A Scope of Work, Fall Protection/Safety Specific Scope, Note #6 – can this scope of work be assigned to either 3A or 4A Contractor as the rebar caps should be installed immediately following the installation of the rebars?	Will be addressed in forthcoming Addendum.
403	3/20/2024	Scope of Work, Construction Waste Management, Note #4, indicates for this Contractor to provide day & night shift composite cleaning crews. Please clarify if this is a two shift project	Will be addressed in forthcoming Addendum.
404	3/20/2024	6A Scope of Work, Construction Waste Management, Note #4 – Please confirm that the 6A Contractor is required to provide (1) supervisor and (2) laborers to lead the composite cleaning crew for the entire duration of the project whether this Contractor is on-site or not.	Will be addressed in forthcoming Addendum.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
405	3/20/2024	6A Scope of Work, Drywall, Rough Carpentry, and Acoustical Assemblies, Note #22 indicates for this Contractor to provide Level 5 drywall finish. Does this apply to all drywall surfaces requiring finishing, therefore, superseding the specification requirement in Spec. Sec. 09 29 00?	Will be addressed in forthcoming Addendum.
406	3/20/2024	6A Scope of Work and 6B Scope of Work both list section 10 56 13.23 Cantilever Metal Library Shelving. Please clarify which trade package is to furnish and install this specification section	Will be addressed in forthcoming Addendum.
407	3/20/2024	Please confirm trade package 8B is responsible for mirrors specified in section 08 83 00.	Will be addressed in forthcoming Addendum.
408	3/20/2024	Which trade package furnishes and installs Stage Curtains section 11 61 43?	Will be addressed in forthcoming Addendum.
409	3/20/2024	Scope of Work states to install stair nosings furnished by the 5A contractor. It appears that these are also in multiple other trade packages. Please confirm 3A installs imbedded stairnosings and 9B installs resilient stair nosings. Clarify 6A's responsibilities related to stair nosings	Will be addressed in forthcoming Addendum.
410	3/20/2024	Both 6A Scope of Work and 23A Scope of Work state to furnish and install all louvers. Please clarify which louvers are to be provided by each of these contractors.	Will be addressed in forthcoming Addendum.
411	3/20/2024	6A Scope of Work states to furnish and install the Pergolas shown on sheet L502. Please confirm this is in reference to detail G on L502 "Alternate Bid No. 4 – Front Canopy", or otherwise clarify as no 'Pergolas' appear to be shown on sheet L502.	Will be addressed in forthcoming Addendum.
412	3/20/2024	6A Scope of Work states to furnish and install Decorative Protection Panels per section 10 26 23.11. These appear to be millwork items. Should this specification section be assigned to the 6B contractor?	Will be addressed in forthcoming Addendum.
413	3/20/2024	10 11 00 – Visual Display Units: The specs mention both factory-assembled and field-assembled boards. The basis-of-design is a factory-assembled board. Please confirm factory-assembled boards are required.	Factory fabricated boards are required. Refer to 10 11 00 - 1.3.C. for conditions where field-assembly of factory -fabricated units is required.
414	3/20/2024	10 11 00 – Visual Display Units: Is aluminum trim required on the "Porcelain Marker Surface" (for example elevation D8/A614)? Paragraph 2.3 does not mention any perimeter trim.	Trim is not required at Porcelain Marker Surfaces provided under 10 11 00-2.3.
415	3/20/2024	10 28 00 – Toilet, Bath, and Laundry Accessories : Toilet Accessory Schedule grab bar model numbers (items 9-15) for Bobrick and ASI are incorrect. Bobrick should be 6806.99 and 68616.99. ASI should be 3801 and 3874.	Product numbers on drawings will be revised.
416	3/20/2024	10 28 00 – Toilet, Bath, and Laundry Accessories: Toilet Accessory Schedule item 22 (utility shelf w/ mop holder) model numbers do not match the spec description. To match the specs the model numbers should be Bobrick B-224x36, ASI 1315-4, and Bradley 9984.	Product numbers on drawings will be revised.
417	3/20/2024	10 28 00 – Toilet, Bath, and Laundry Accessories: Toilet Accessory Schedule item 23 (ladder hanger) model numbers have been discontinued. Please provide an alternate manufacturer and model number.	Model numbers are still shown as available.
418	3/20/2024	10 28 00 – Toilet, Bath, and Laundry Accessories: Toilet Accessory Schedule item 24 (changing table) model numbers for Bobrick and ASI do not match the spec description as they are plastic and the specs call for stainless steel. To match the specs, Bobrick model should be KB310- SSWM, and ASI model should be 9013-9.	Product numbers on drawings will be revised.
419	3/20/2024	10 28 00 – Toilet, Bath, and Laundry Accessories: Are Toilet Accessory Schedule items 27, 28, and 29 (36x80, 48x48, and 48x80 mirrors) by section 08 83 00? These are too large for most toilet accessory manufacturers.	Provide mirrors of sizes in schedule where identified in drawing documents. Oversize mirrors not available from toilet accessory manufacturers may be from a different source subject to review and approval during submittal process.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
420	3/20/2024	10 00 05 Miscellaneous Specialties: Paragraph 2.6 Art Display Rail calls for 150 cables and 150 hooks. Is this correct? We've seen this same quantity in other specs that require more display rail.	Specified quantity is sufficient.
421	3/20/2024	10 00 05 Miscellaneous Specialties: Please provide the required lengths for the cables and rods in Paragraph 2.6 Art Display Rail.	Will be addressed in forthcoming Addendum.
422	3/20/2024	Most Maryland counties do not charge for permits for school projects. I believe that Cecil county is an exception to that. Do we know what the costs for permits will be for something this size or could an allowance be put in for this?	Will be addressed in forthcoming Addendum.
423	3/20/2024	Please confirm who is responsible for porta pots.	Will be addressed in forthcoming Addendum.
424	3/20/2024	Please confirm who is responsible for dumpsters.	Will be addressed in forthcoming Addendum.
425	3/20/2024	See 31A SOW Item 25, please confirm the need for 2 full time wash rack attendants.	Will be addressed in forthcoming Addendum.
426	3/20/2024	Please provide a site logistics plan for the temporary stone staging area, parking lot, and access road around the building perimeter.	Will be addressed in forthcoming Addendum.
427	3/20/2024	Please provide a demolition sheet.	Will be addressed in forthcoming Addendum.
428	3/20/2024	Considering that the building will be demolished in the future and is a part of a separate package, what are the limits of demolition that we should account for at this time? Please provide a visual if possible.	Will be addressed in forthcoming Addendum.
429	3/20/2024	See Sheet C-6, please confirm that the dark grey area is the only area of the submerged gravel wetland getting stone and planting material. Are all other areas of the submerged gravel wetland to be assumed topsoil and seeded areas?	Please bid the stormwater features from their specific design sheets. Sheet F-ESD-25 defines the media area required. The rest of the SGW bottom is 4" topsoil, seed, and mulch.
430	3/20/2024	See Sheet F-ESD-18, please confirm that the dark grey area of the bioretention pond is the only area getting stone and planting material.	The media area is the 50' x 10' solid gray hatched area. The rest of the MBR bottom is 4" topsoil, seed, and mulch.
431	3/20/2024	See Sheet F-ESD-8, who is responsible for the 25' temporary gravel construction access road?	HESS to coordinate bid package scoping.
432	3/20/2024	See Sheet F-ESD-20, please confirm the depth of the Type 1 Plunge Pool at the end of the storm drain run.	The bottom of the plunge pool is EL 58, the pool is 1.5' deep.
433	3/20/2024	See Sheet F-ESD-17, please confirm who is responsible for the CL Fence called out for the Rock Gabion Forebay detail.	HESS to coordinate bid package scoping.
434	3/20/2024	See Sheet F-ESD-17, please confirm that the 10' x 8' stone window is #57 Stone.	Confirmed. Stone window sides should be lined with filter fabric
435	3/20/2024	See Sheet F-ESD-17, please confirm if filter fabric is required on the bottom of the submerged gravel wetlands.	Filter fabric is not required for the bottom of SGW-2
436	3/20/2024	See Sheet F-ESD-18, please confirm if filter fabric is required on the bottom of the micro-bioretention's.	Filter fabric is <u>not permitted</u> on the bottom of any Microbioretention.
437	3/20/2024	See Sheet F-ESD-21, please confirm that the Sediment Basins get impermeable liner.	SB-1 requires an impermeable liner consisting of 12" of clay installed over a geotextile fabric.
438	3/20/2024	See Sheet F-ESD-21, please clarify the note for the sediment basin liner specification on sheet F-ESD-22, are we are to install a 12" Clay liner?	SB-1 requires an impermeable liner consisting of 12" of clay installed over a geotextile fabric.
439	3/20/2024	To provide enough time to review RFI responses and possible updated plans provided with the future addendums, could the bid due date be extended by at least two weeks for this project?	Will be addressed in forthcoming Addendum.
440	3/20/2024	RS-2 through RS-4 regarding the paving for the three entrances is unclear and do not coincide with the site plan paving limits. There is cross hatching shown in some areas on RS-2 through RS-4, but it is not identified what this hatching represents. These plans also cut off some areas, therefore not making it clear where the limits of work is. Please clarify on both the entrance and site plans the total limits of full depth paving and mill and overlay for the three entrance areas.	The RS sheets are not a part of this bid.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
441	3/20/2024	There are multiple scope packages involved with the work shown on the Entrance Plans (such as earthwork/demo, utilities, paving, etc) and it appears all scopes will need to include maintenance of traffic (flaggers) for their work – but who will be responsible for the initial maintenance of traffic set up and resetting (temporary signs, barrels, etc) for all of the entrance work?	Will be addressed in forthcoming Addendum.
442	3/20/2024	In reference to Section 00 31 00 Available Project Information, what is the difference (and reasoning) between Base Bid 1 and Base Bid 2?	Will be addressed in forthcoming Addendum.
443	3/20/2024	In reference to Section 00 11 13 Advertisement of Bid, Page 2 states that the Irishtown Road Improvements Bid Package will be advertised at a later date and should not be included with this current package, but there is no indication on the plans of this. In fact, the Irishtown Road Entrance Plans are included with the Civil Plans. Please clarify if we should include the Irishtown Road Improvements as shown in the plans with this package, or not.	Will be addressed in forthcoming Addendum.
444	3/20/2024	In reference to Sheet C-13, the tennis court detail shows 1.5" base paving using 19mm and 1" of surface paving using 9.5mm, which are not realistic. The minimum thickness required using 19mm asphalt is 3" and the minimum thickness using 9.5mm asphalt is 1.5". We suggest this detail be revised to reflect either 1 course of surface asphalt paving directly on top of the stone base at 2.5" using 12.5mm or a base asphalt course of 1.5" using 9.5mm and surface asphalt course of 1.5" using 9.5mm. Please advise.	Please use a base asphalt course of 1.5" using 9.5mm and surface asphalt course of 1.5" using 9.5mm
445	3/20/2024	Will there be any temporary asphalt paving required between phases and which scope would that fall under?	Will be addressed in forthcoming Addendum.
446	3/20/2024	Please provide the limits on the plan sheets of all utility trench patching required in non-pervious areas (existing asphalt pavement, concrete areas, etc).	Please bid the plans as drawn.
447	3/20/2024	What scope is responsible for all work associated with Alternate 4 Front Canopy, including any concrete footers associated with it?	Will be addressed in forthcoming Addendum.
448	3/20/2024	Since it states that it is excluded from Scope 32A, what scope is responsible for the tennis court color coating and lines?	Will be addressed in forthcoming Addendum.
449	3/20/2024	What scope is responsible for furnishing and installing all handrails?	Will be addressed in forthcoming Addendum.
450	3/20/2024	What scope is responsible for the flag pole footings (it is mentioned in both Scope 32A and Scope 32B).	Will be addressed in forthcoming Addendum.
451	3/20/2024	What scope is responsible for furnishing and installing the flag pole (it is mentioned in both Scope 32A and Scope 32B).	Will be addressed in forthcoming Addendum.
452	3/20/2024	What scope is responsible for the basketball goal footings?	Will be addressed in forthcoming Addendum.
453	3/20/2024	What scope is responsible for furnishing and installing the basketball goals?	Will be addressed in forthcoming Addendum.
454	3/20/2024	What scope is responsible for the tennis court post footings?	Will be addressed in forthcoming Addendum.
455	3/20/2024	What scope is responsible for furnishing and installing the tennis court posts and nets?	Will be addressed in forthcoming Addendum.
456	3/20/2024	Is the 32A Scope responsible for any of the retaining walls?	Will be addressed in forthcoming Addendum.
457	3/20/2024	What scope is responsible for the seat wall?	Will be addressed in forthcoming Addendum.
458	3/20/2024	What scope is responsible for the amphitheater steps and seating?	Will be addressed in forthcoming Addendum.
459	3/20/2024	Do the site stairs require the same nosings as the interior stairs?	Site stair nosings and product information are reflected on detail sheet L520. They are shown as a separate product selection as compared to the architectural stair nosings.
460	3/20/2024	What trade package is responsible for picking up the roof ladders on A105?	Will be addressed in forthcoming Addendum.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
461	3/20/2024	Could you provide the section for the asphalt sidewalk?	Use light duty pavement section, as noted in detail for asphalt sidewalks.
462	3/20/2024	[P601, P303A] - a.P303A (3) shows x2-P3B and x1-P3C in room A010, but P601 shows x2-P3C and x1-P3B	Will be addressed in forthcoming Addendum.
463	3/20/2024	Would you consider extending the RFI deadline now that the bid date has been moved?	Will be addressed in forthcoming Addendum.
464	3/20/2024	Line item 1 states all weather barriers All notes regarding typical parapets reference 04A contract for air Barrier as does 04A SOW	Will be addressed in forthcoming Addendum.
465	3/20/2024	Line Item 26 Contractor shall furnish and install all structural thermal break material system as shown on contract documents. All notes regarding typical parapets and thermal Z furring list this as 07B contractors work	Will be addressed in forthcoming Addendum.
466	3/20/2024	Line Item 22 Contractor to provide a level 5 finish Specs state level 5 required at public gathering areas with walls greater than 25 in length all other exposed areas to view are level 4	Will be addressed in forthcoming Addendum.
467	3/20/2024	HS Café B001 Finish Schedule Calls for APC-3 / APC-4 / APC-5 /GYP but the RCP does not have APC-3 (2x4 Tile), Only has 2x2 APC-4	Will be addressed in forthcoming Addendum.
468	3/20/2024	Corridor B02 Finish Schedule Calls for APC-2 which is 2x2 Tile but the RCP shows 2x4 Tile	Will be addressed in forthcoming Addendum.
469	3/20/2024	MS Aux Storage B010 Finish Schedule Calls for APC-1 but the RCP Shows EXPOSED.4.These are few examples, please confirm which to follow, Finish Schedule or RCP?	Will be addressed in forthcoming Addendum.
470	3/20/2024	What product is to be used for 2x2 acoustical wall panels in the auditorium?	These are fabric wrapped panels.
471	3/20/2024	What product is to be used for 4x4/ 4x8 acoustical wall panels shown in auditorium?	These are painted panels to match the wall color.
472	3/20/2024	Should we be picking up the AWP 1, 2, & 3 or just AP 1-6?	All to be included. Reference Material Schedule and written specifications for product details and spec codes.
473	3/20/2024	Please confirm the product used for APC 5 & 6 are the same product?	Yes
474	3/20/2024	On page A701E the band/ vocal/ orchestra rooms, is there a spec for the grid and what the 5/8 gyp tile is supposed to be? For AP-2 the left and right parallelograms are not scaling to standard sizes please confirm we can use the 12"x24" shown in the attached.2.For AP-2 it is requiring an 85 NRC but the drawing is showing gaps in between some of the panels so that NRC would not be achievable.a.-if the gaps are supposed to be there then we would not achieve nrc and would attach directly to the block b.if the NRC is required then the gaps would need to be filled and a new drawing would be required to show how they would be filled	AP-2 are wall panels, standard product from Armstrong, shapes are shown on elevations, provided as standard options from their Tectum DesignArt line. Any NRC listed is the rating of the panels themselves, per product cutsheet, not the arrangement on the wall. Page A701E are reflected ceiling plans. Ceiling tile and grid specs are on the Materials Schedule. The RCP Legend has two hatches - one for GWB ceilings and one for omitted ceiling tiles - area E only. The omitted tile hatch applies to the Band/Vocal/ Orchestra rooms.
475	3/20/2024	Drawing no.- 96-A432 ROOF DETAILS - D18- TYP LOW ROOF FLASHING @ STUDS W/MTL.PANEL W/ROOF EJ Does that mean two layers of 5/8" ext. frt plywood sheathing or single layer?	The intent of details A14/A432, A18/A432 & D18/A432 are to have a single layer of 5/8" Ext. FRT Plywood Sheathing.
476	3/20/2024	Sheet A301, Exterior Wall Types, indicates that Wall Types 1.1 through 6.3 are constructed with 2-1/2" Rigid Insulation. Description and hatching consistent with other drawings in the set.	Will be addressed in forthcoming Addendum.
477	3/20/2024	Sheet A431, Roof Details, is consistent with the Wall Types on Sheet A301.	Will be addressed in forthcoming Addendum.
478	3/20/2024	Sheet A432, Roof Details, Mineral Wool insulation indicated by description and hatching throughout the details.	Will be addressed in forthcoming Addendum.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
479	3/20/2024	Package 04A-Masonry - Page 3, Item 28. “ furnish and install all exterior rigid and mineral wool insulation on masonry back-up walls, including but limited to behind, brick, precast, cast stone, and finish block areas.”. Mineral wool is not shown on the Wall Types Schedule, A301	Will be addressed in forthcoming Addendum.
480	3/20/2024	Page 4, Item 2. Assign both mineral wool and rigid insulation behind metal panel,, albeit on CMU back-up, to the 4A Package. The supply and install of this insulation, regardless of which type is correct, is best assigned to the contractor installing the finish material as it will integrate with both the support system and flashing for which that bid package is responsible.	Will be addressed in forthcoming Addendum.
481	3/20/2024	Page 4, Item 3. @ CMU & Stud Back-up; Assigns Foamed-in-place insulation to 4A. No where on the bid drawings is foamed-in -place insulation indicated. The details referenced indicate rigid insulation behind masonry veneer. The assignment of the rigid insulation to 4A is the expected industry practice.	Will be addressed in forthcoming Addendum.
482	3/20/2024	Page 4, Item 4. Metal Panels @ CMU & Stud Back-up; Assigns “insulation” to 4A. Sheet A432 shows Metal Panels on both stud and CMU back-up systems and indicates both mineral wool and rigid insulation. The supply and install of this insulation, regardless of which type is correct, is best assigned to the contractor installing the finish material as it will integrate with both the support system and flashing for which that bid package is responsible	Will be addressed in forthcoming Addendum.
483	3/20/2024	Page 5, Item 5. Again the reference to Foamed-in-place insulation. The mineral wool cavity insulation behind the metal panels is not assigned to any trade.	Will be addressed in forthcoming Addendum.
484	3/20/2024	Substitution request - Folding Panel Partitions Section 102239 Kwikwall is Made In America, quality product, and an equal to Modernfold Kwikwall should be considered an equal . The product quality is equal or better.	A substitution request in format described in contract documents was required for consideration.
485	3/20/2024	Substitution request - Fixed Audience Seating SECTION 12 61 00 First Class Seating Product should be considered an equal to Hussey Better lead times and equal quality, Would be good to have this as an approved option	A substitution request in format described in contract documents was required for consideration.
486	3/20/2024	Please advise who is responsible for furnishing and pumping in the glycol associated with the geothermal system. Will the 23A be responsible for the piping they install, and 23B be responsible for their installed piping?	Will be addressed in forthcoming Addendum.
487	3/20/2024	Could you provide a section for the asphalt sidewalk?	Use light duty pavement section, as noted in detail for asphalt sidewalks.
488	3/20/2024	Which bid package is responsible for constructing the dumpster enclosure CMU walls? Brick fascia? Wooden gates?	Will be addressed in forthcoming Addendum.
489	3/20/2024	Shear Walls SWA-E and SWA-F, indicated at Stair 6, are not identified in Shear Wall Schedules on sheets S203 and S204. Please identify. Sheet S100E: along column line K' between column lines 1' and 5', several steps in the footing are indicated by break lines, however, no TOF heights are provided. Please provide. Detail M/S301, regarding rebar dowels; detail indicates "at Contractor option, bar can be grouted into slab". Please confirm, that for bidding purposes, we can assume that all rebar dowels projecting from the concrete will be provided and cast in by the 3A Package and not drilled and epoxied in the field by 4A.	Shear wall plan will be updated in addendum. Missing footing elevations will be provided in addendum. (HESS Please comment on CIP vs epoxied dowels)

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
490	3/1/2024	Per drawing E601, HS-MSB is identified as 4000A on the riser diagram, but 3000A in the schedule (drawing E708). Please clarify.	Refer to Addendum #1
491	3/1/2024	Is Siemens an acceptable alternative fire alarm system manufacturer?	Refer to Addendum #1
492	3/1/2024	Is Automated Logic's Webctrl an acceptable manufacturer substitution for specifications 230900	Johnson Controls - Sole Source
493	3/14/2024	Scheduled equipment items E2, E4 & E12 are discontinued. Please provide new model numbers.	Additional acceptable models are as follows; E2 - GE JB480STSS, E4 - UniMac UWT085V4, E5 - UniMac UT075EVN, E12 - Summit Appliances CR4B30T11B. Documents will be updated via addendum.
494	3/14/2024	Scheduled equipment items E2, E4 & E12 are discontinued. Please provide new model numbers.	Refer to response to response to RFI 493.
495	3/14/2024	123553, Rift Cut White Oak is a rare request for Wood Lab Casework, which adds considerable cost to the project with no advantages. Industry standard would be Plain Sliced Red Oak. Advise if Plain Sliced Red Oak is acceptable. This would bring down the cost of the wood lab casework considerably.	Provide casework as indicated in contract documents.
496	3/14/2024	Is the greenhouse to be bid by itself as its own project or is it part of packaged deal. Needing to know if we bid to general contractors.	Will be addressed in forthcoming Addendum.
497	3/14/2024	Sheet C-4 does not clearly show what is new striping, new wheel stops, and what is existing to remain. Please clarify the limits on the plans of what is the proposed striping and wheel stops and what is existing to remain.	Existing features are gray and proposed features are black. New wheel stops are proposed for all spaces facing the new ball field. All existing parking striping will need to be re-striped.
498	3/14/2024	Sheet C-4: Do any existing parking spaces, get repainted? If so, please clarify these limits on the plan	All existing parking striping will need to be re-striped.
499	3/14/2024	Sheet C-4: Does existing paving remain and striping stay as is, or will these areas get milled, resurfaced, and new striping?	All existing parking striping will need to be re-striped.
500	3/14/2024	Regarding striping, the notes and specs call for painted arrows, but the detail on C10 states inlaid tape (arrows are typically painted on parking lots and the existing arrows there are also painted). Please advise what material to use for the arrows.	Please Paint arrows.
501	3/14/2024	Could you please provide an overall site plan showing and clarifying the limits of the Base Bid 1 and Base Bid 2 areas and their related phases?	HESS to coordinate bid package scoping.
502	3/14/2024	Regarding sheets RS-5 and RS-6: Is OFFSITE striping going to be all extruded thermoplastic? Please advise.	The RS sheets are not a part of this bid.
503	3/14/2024	Regarding Package 32A: Page 1 of 5, #4 under asphalt scope; "proper elevations" to +/- what grade? Will the subgrade be provided to the asphalt contractor?	Will be addressed in forthcoming Addendum.
504	3/14/2024	Regarding Package 32A: Page 2 of 5, #6 under asphalt scope; please confirm what the prevailing AC index will be. Page 2 of 5 indicates both November 2023 \$620.00 and September of 2024 which will not be published at the time of bid.	Will be addressed in forthcoming Addendum.
505	3/14/2024	Regarding Package 32A: Page 2 of 5, #4 under site concrete scope; please clarify that the contractor is to include repairing 5% of sidewalk, curb, and asphalt in their lump sum price, and anything beyond that would be tracked by ticket or	Will be addressed in forthcoming Addendum.
506	3/14/2024	Regarding Package 32A: Page 2 of 5, #4 under site concrete scope; please clarify that a deduct change order will be calculated using the unit prices shown on the Bid Form for the unused amount of the 5% of sidewalk, curb, and asphalt to be included in the lump sum price?	Will be addressed in forthcoming Addendum.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
507	3/14/2024	Regarding Package 32A: Page 3 of 5, #5 under site concrete scope; shouldn't this be under the asphalt scope? Does #4 under site concrete scope regarding repairing 5% of the work apply to the base asphalt repairs this scope item references to as well? Please clarify how the asphalt contractor should quantify possible base asphalt repairs in the lump sum bid.	Will be addressed in forthcoming Addendum.
508	3/14/2024	Regarding Package 32A: Page 3 of 5, #7 under site concrete scope; shouldn't this be under the asphalt scope? This item states that this scope package should include sawcutting and removing the asphalt for the underground utilities – does this mean this scope will need to do this prior to the utility contractor installs their work, or after? Typically, the utility contractor removes the asphalt, installs their work, backfills the trench, and places a temporary patch – then the asphalt contractor comes in, removes the temporary patch (provides sawcutting for cut backs if the detail calls for it), and installs the permanent patch. Please advise what the responsibility of the utility contractor and asphalt contractor is for utility trench patches.	Will be addressed in forthcoming Addendum.
509	3/14/2024	Regarding Package 32A: Page 3 of 5, #10 under site concrete scope; please clarify what the “other scope of work” is.	Will be addressed in forthcoming Addendum.
510	3/14/2024	Regarding Package 32A: Page 5 of 5, #6 under road and parking scope; would temporary striping be per the final striping plan? How can a contractor account for this without knowing what will need to be striped?	Will be addressed in forthcoming Addendum.
511	3/14/2024	Regarding Package 32A: Page 5 of 5, #10 under road and parking scope; Is there a detail for the address sign?	Will be addressed in forthcoming Addendum.
512	3/14/2024	Regarding Package 32A: Page 5 of 5, #1 under special considerations; this should not be the burden of the asphalt contractor. The earthwork contractor should be required to meet compaction requirements of the subgrade.	Will be addressed in forthcoming Addendum.
513	3/14/2024	Regarding Package 32A: Page 4 of 5, #13 under concrete scope, this item should not apply to this package. Please clarify.	Will be addressed in forthcoming Addendum.
514	3/14/2024	Regarding Package 32A: Do we need to include third party testing with this scope package?	Will be addressed in forthcoming Addendum.
515	3/14/2024	Regarding Package 32A: Do we need to include utility structure adjustments in pavement/concrete areas with this scope package or should that be included with the Scope 31A Sitework scope package?	Will be addressed in forthcoming Addendum.
516	3/14/2024	Regarding Package 32A: Will there be any temporary asphalt walks, lots, etc required between phases? If so, please indicate the limits, sections, and which phase it will be required in on the plans.	Not planned at this time.
517	3/14/2024	Will there be any special safety training, orientations, drug testing, badging, fingerprinting, background checks (including fees) that will be required for this project?	Will be addressed in forthcoming Addendum.
518	3/14/2024	Will there be any project manager or invoicing software required for the project that we need to consider costs for?	Will be addressed in forthcoming Addendum.
519	3/14/2024	Which package is responsible for the Construction Manager's office trailer?	Will be addressed in forthcoming Addendum.
520	3/14/2024	Which package is responsible for providing and covering the expenses for the on-site port-o-pots?	Will be addressed in forthcoming Addendum.
521	3/14/2024	On drawing M703 and detail 29 shows a duct detector and test switch for the smoke damper. I wanted to know who is responsible for providing the duct detector and test switch? Would this be the mechanical contractor or fire alarm contractor?	The Mechanical Contractor is responsible for materials indicated on the Mechanical contract documents and specifications.
522	3/14/2024	On drawing E303F, should there be a pull station by Stair 10?	Yes, pull station has been added. Thank you.

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT			
SUBMITTED RFIS LOG			
RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 2 dated 03/20/2024, are in bold text.			
523	3/14/2024	On drawing E101A, rooms A138 has both an F and a C2 fixture shown. Should these both be type F fixtures? Room A135 has both F2 and C2 fixtures shown. Should these all be type F2 fixtures? Should room A179 have a ceiling mounted vacancy sensor?	A138 and A135 questions answered in with RFI-93 and 94 responses. A138 has (2) 'F' fixtures and A135 has (4) 'F2' fixtures. Yes, ceiling mounted vacancy sensor added to A179.
524	3/14/2024	On drawing E101C, please confirm that the (3) fixtures on the stair 3 landing should be type F and not type F2 like the other stair landings have. Stair 2 and 3 have (2) type W8 fixtures each. Please confirm that Stair 1 only gets (1) type W8 fixture.	E101C - Stair 3 - three type 'FH' and two type 'W8'. Stair 1 - only one type 'W8' due to windows.
525	3/14/2024	On drawing E102C: Stair 2 and 3 have (2) type W8 fixtures each. Please confirm that Stair 1 only gets (1) type W8 fixture. Should room C202 have a ceiling mounted vacancy sensor?	Stair 2 and 3 - Confirmed, (2) Type 'W8'. Stair 1 - Confirmed, (1) Type 'W8'. Room C202 - Yes, please provide (1) ceiling mounted, low voltage, dual tech vacancy sensor.
526	3/14/2024	On drawing E102D Auditorium Catwalk Lighting detail, there is a unidentified dot that looks like it could be a type AHS fixture similar to the one on the Level 2 plan below it. Please confirm if there is a fixture that goes there.	Confirmed - This is a light fixture, Type 'AHS' connected to circuit E1LPF-9.
527	3/14/2024	On drawing E102G: most of the rooms with the type U10 fixtures have a dimmer switch shown to control them. There is no dimmer switch shown in rooms G204, G206, and G215. Please clarify if these get dimmer switches.	G204, G206 and G215 - Yes, please add the localized dimmer switch for control of under cabinet lighting system.
528	3/14/2024	On drawing E103G, please confirm if room G304 gets (2) wall vacancy switches like the other similar rooms have or if it only gets the (1) shown	G304 - Please add additional Wall Sensor Dimmer Switch Combination at entry from HS Science G306.
529	3/14/2024	On drawing E100A, please confirm if room A016A gets a wall vacancy switch like the other similar rooms.	A016A - Please provide Wall Sensor Switch Combination.
530	3/13/2024	In 09 84 00 Sound Absorbing Wall Panels 2.3: Please verify that AWP1 and AWP2 are Kinetics. And that AWP3 is 9 Wood.	Confirmed.
531	3/13/2024	Spec section 10 56 13.13 Cantilever Metal Library Shelving is listed fully in both 6a and 6b packages. Please confirm that 6A only provides blocking.	Will be addressed in forthcoming Addendum.
532	3/13/2024	Final Cleaning is not in 6A SOW. Is this correct?	Will be addressed in forthcoming Addendum.
533	3/13/2024	There is no wage rate given for dry wall finisher. Please advise or provide.	Refer to attached MD Dept. of Labor letter dated 3/27/24 for wage rates indicated for Glazier, Ironworker-Structural, Painter, and Roofer/Waterproofer.
534	3/6/2024	Plumbing Drawings [P001A, P001B, P003] show Underslab Drainage, but it is not noted in Work Scope Category 23A	Will be addressed in forthcoming Addendum.
535	3/6/2024	Plumbing Drawing [P704] Details (45-49) show Underslab Drain Details, c.Which division is responsible for this piping?	Will be addressed in forthcoming Addendum.
536	3/6/2024	Specifications 22.14.13-4 (D.) a.Please confirm you would like aboveground Storm Drainage Force Mains to be L Copper with solder joints. b.Is PVC schedule 40 acceptable?	Provided forced main piping materials as specified.
537	3/6/2024	Specifications 22.14.13-4 (E.) a.Please confirm you would like exposed Exterior Condensate Drain (on the roof) to be DWV Copper with solder joints. b.Is PVC schedule 40 or DWV acceptable?	Provide condensate drain piping materials as specified.
538	3/6/2024	Drawing P901 Note (6) Kitchen Equipment Plumbing Schedule, please confirm/clarify condensate drain lines from blower coils by Kitchen Contractor, not Plumbing. This note does not appear on [K103].	Confirmed, drain lines from blower coil are by the Kitchen Equipment Contractor (KEC). See note 5 on sheet K103.
539	3/6/2024	Drawing K103 DTV-15 Drain Tempering Kit as shown will require cold water supply. Please provide preferred piping location and connection size	1/2" cold water connection, 10" high AFF to be located in the vicinity of the dishmachine.
540	3/19/2024	[P401, P606, P614] P614 shows x1 more P2/Urinal than is shown on P401; P614 shows x1 more P1/Toilet than is shown on P401; P401 shows x1 more P1/Toilet than is shown on P606; d.P401 shows FD-A not shown on P614.	Will be addressed in forthcoming Addendum.



March 25, 2024

PROJECT NAME North East Middle & High School
PSC # 07.044.23 / BTL
CCPS RFP#24-15
ADDENDUM NO. #3
PROJECT# GP22105.00

TO THE CONTRACT DRAWINGS AND SPECIFICATIONS FOR THE REFERENCED PROJECT, DATED 12/22/2023, AS PREPARED BY GRIMM & PARKER ARCHITECTS, 11720 BELTSVILLE DRIVE, SUITE 600, CALVERTON, MARYLAND 20705.

This Addendum includes changes and clarifications to the Contract Documents. The information includes the following:

SPECIFICATION ITEMS:

ITEM NO. 1

CLARIFICATION:

Any reference in the bid solicitation documents to “MBE Attachment A” and/or “MBE Attachment B” shall be replaced by MBE Attachment D-1A.

ITEM NO. 2

00 11 13 ADVERTISEMENT FOR BIDS (Page 2-3)

DELETE

The bidder or offeror is required to submit with its bid or proposal a completed (Attachment A) - Certified MBE Utilization and Fair Solicitation Affidavit and (Attachment B) - MBE Participation Schedule as described in the solicitation documents. Failure to submit these forms with the bid will result in the bid being determined nonresponsive.

When the specific Prime Bid Package MBE contract goal cannot be met, the bidder or offeror must submit with its bid the Certified MBE Utilization and Fair solicitation Affidavit, (Attachment A) and the MBE Participation Schedule (Attachment B) (indicating partial or no participation). The apparent low bidder must submit additional minority business enterprise material and supporting data, which is specified in the bid documents within ten (10) working days after notification that the firm is the apparent low bidder. The failure of a bidder to complete and submit all of the required forms will result in a determination that the bid is not responsive. The failure of an offeror to complete and submit all of

the required forms will result in a determination that the bid is not susceptible to being selected for award.

REPLACE with:

The bidder or offeror is required to submit with its bid or proposal a completed **Attachment D-1A MBE Utilization and Fair Solicitation Affidavit & MBE Participation Schedule** as described in the solicitation documents. **Failure to submit these forms with the bid will result in the bid being determined nonresponsive.**

When the specific Prime Bid Package MBE contract goal cannot be met, the bidder or offeror must submit with its bid the **Attachment D-1A MBE Utilization and Fair Solicitation Affidavit & MBE Participation Schedule** (*indicating partial or no participation*). The apparent low bidder must submit additional minority business enterprise material and supporting data, which is specified in the bid documents within ten (10) working days after notification that the firm is the apparent low bidder. The failure of a bidder to complete and submit all of the required forms will result in a determination that the bid is not responsive. **The failure of an offeror to complete and submit all of the required forms will result in a determination that the bid is not susceptible to being selected for award.**

ITEM NO. 3

00 41 00 BID FORM

REPLACE

Section in its entirety.

See attached Section 00 41 00 - BID FORM ADD#3.

ITEM NO. 4

00 43 30 CONTRACTOR'S QUALIFICATION STATEMENT

ADD

A305-2020 - CONTRACTOR'S QUALIFICATION STATEMENT FORMS

See attached A305 forms.

ITEM NO. 5

SECTION 00 43 39 - MINORITY BUSINESS ENTERPRISE

REPLACE

Section in its entirety.

See attached Section 00 43 39 MBE ADD#3.

ITEM NO. 6

00 45 20 CORPORATE DIVERSITY ADDENDUM

ADD

Corporate Diversity Addendum – required to be submitted with a BID or PROPOSAL when the contract award is estimated to be \$1,000,000 or

more! Please note: At this time, this document is for data collection only and is not to be used for determinations of responsiveness or responsibility.

See attached - Corporate-Diversity-Addendum-Version-8.12.2022 - ADD #3

ITEM NO. 7

SECTION 00 90 00 - PRIME BID PACKAGE SCOPES

REVISE

00-General Scope, 03A-Concrete, 04A-Masonry, 05A-Steel, 06A General Trades, 06B-Millwork & Casework, 07A-Roofing, 07B-Metal Panels, 08B-Glass, 23A-Mechanical, 23B-Electrical, 31A-Sitework, 32A-Asphalt & Site Concrete, 32B-Landscaping

ITEM NO. 8

SECTION 04 20 00 - UNIT MASONRY

CHANGE

Paragraph 2.2.A to read:

- A. Manufacturers: Contractor to provide one of the following sets of matched brick and manufactured stone, paired by distribution group.
 - 1. Option 1:
 - a. Face Brick: Glen-Gery Sunset Flashed Ironspot; wirecut.
 - b. Manufactured Stone (Full-bed): Custom Cast Stone, Inc.; Masonry Veneer in Rockface texture.
 - 1) Color: Basalt Blend; a custom two-color blend.
 - 2) Pattern: Coursed ashlar pattern to be selected from manufacturer's options for Veneer Stone; individual veneer ties unless selected pattern at CMU backup construction aligns with placement of ladder type joint reinforcement with adjustable ties.
 - 2. Option 2:
 - a. Face Brick: Glen-Gery Sunset Flashed Ironspot; wirecut.
 - b. Manufactured Stone (Full-bed): Shouldice Estate Stone Norton; trade contractor to provide individual masonry veneer ties for ashlar pattern that does not work with CMU backup wall coursing.
 - 3. Option 3:
 - a. Face Brick: Bowerston #208 Ironspot; wirecut.
 - b. Manufactured Stone (Full-bed): Custom Cast Stone, Inc.; Masonry Veneer in Rockface texture.
 - 1) Color: Basalt Blend; a custom two-color blend.
 - 2) Pattern: Coursed ashlar pattern to be selected from manufacturer's options for Veneer Stone; individual veneer ties unless selected pattern at CMU backup construction aligns with placement of ladder type joint reinforcement with adjustable ties.
 - 4. Option 4:

- a. Face Brick: Watsontown Chelsea Ironspot; wirecut.
- b. Manufactured Stone (Full-bed): Shouldice Estate Stone Norton; trade contractor to provide individual masonry veneer ties for ashlar pattern that does not work with CMU backup wall coursing.

ITEM NO. 9

SECTION 064023 - INTERIOR ARCHITECTURAL WOODWORK

ADD

New Article 2.13 to read:

2.13 UPHOLSTERY

A. Seat Cushions:

- 1. Fabric - Drawing Designation F1 (Basis-of-Design):
 - a. Selection: Precision by Carnegie.
 - b. Weight per Linear Yard: 21 oz.
 - c. Contents:
 - 1) Face: 90 percent performance urethane, 10 percent silicone.
 - 2) Back: 100 percent polyester.
 - d. Flammability: Compliant California Technical Bulletin 117-2013.
 - e. Durability: No wear 500,000 double rub.
- 2. Cushion Construction:
 - a. Regulatory Requirements: Upholstered furniture shall meet the requirements of Sections 805.2.1.1 through 805.2.1.3.
 - b. Padding: Extra firm cushion cotton padding over sisal liner and 1-inch foam.
 - 1) Foam: Polyurethane.
 - c. Refer to Drawings for additional construction requirements.

ITEM NO. 10

SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES

CHANGE

Paragraph 2.3.B.1.c to read:

- c. Face: Metallic-coated steel sheet, minimum thickness of 0.053 inch, with minimum A40 coating.

CHANGE

Paragraph 2.3.B.2.a to read:

- a. Materials: Metallic-coated steel sheet, minimum thickness of 0.053 inch, with minimum A60 coating.

ITEM NO. 11 SECTION 08 36 53 - VERTICALLY OPERATING SECTIONAL DOORS

ADD Paragraphs 1.2.E, F and G to read:

- E. Lift straps or cables, horizontal top and bottom drive shafts, pulleys and strap or cable “kick outs” are unacceptable.
- F. Systems must allow concealment of motors/mechanics to be concealed in ceiling space with access provided.
- G. Electric or hydraulic systems are permissible subject to comparison with Basis-of-Design Product and approval of modifications to adjacent construction, structure and coordination of connecting trades with no additional cost to Owner.

ITEM NO. 12 SECTION 08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

DELETE Subparagraphs 2.3.E.3.d.2), 3) and 4) in their entirety.

ITEM NO. 13 SECTION 09 96 00 - HIGH-PERFORMANCE COATINGS

REPLACE Section in its entirety.

ITEM NO. 14 SECTION 08 71 00 – DOOR HARDWARE

REVISE Paragraph 1.4.A to read as follows:

- A. Sustainable Design Submittals:
 - 1. Submit a completed Green Building Materials Certification Form that lists permanently installed products and indicates material costs. Attach letter from manufacturer(s) describing product(s) contribution to LEED v4, including, but not limited to, the following:
 - 1 a.MR credit 2: Environmental Product Declarations (EPDs): Submit an Environmental Product Declaration.
 - 2 b.MR credit 3: Sourcing of Raw Materials: Indicate percentage by weight of pre-consumer and post-consumer recycled content.

ADD To paragraph 2.1 add 2.1.C to read as follows:

- C. Sustainability Material Requirements:
 - 1. MR Credit 2: Environmental Product Declarations (EPDs): Door hardware product must have publicly available Product-specific Type III Environmental Product Declaration (EPD)

- that conforms to ISO 14025 and EN 15804 or ISO 21930 with a cradle to gate scope. Manufacturer and specified product name must be recognized as a participant.
2. MR Credit 3: Sourcing of Raw Materials: Door hardware must contain minimum 25% total recycled content (post-consumer plus half pre-consumer recycled content).

ITEM NO. 15 SECTION 10 11 00 - VISUAL DISPLAY UNITS

ADD Paragraph 1.3.C.4 to read:

4. Show locations of trim splices/joints when not continuous from corner to corner; subject to acceptance of Architect.

DELETE Paragraph 2.2.E.1 in its entirety.

ADD Paragraph 2.3.F to read:

- F. Frames and trim not required.

DELETE Paragraph 3.3.B in its entirety.

ITEM NO. 16 SECTION 11 00 15 - MISCELLANEOUS EQUIPMENT

DELETE Paragraph 1.1.D.1 in its entirety.

DELETE Subsection 2.1 in its entirety.

ITEM NO. 17 SECTION 11 30 13 - APPLIANCES

REPLACE Section in its entirety.

ITEM NO. 18 SECTION 11 66 23 - GYMNASIUM EQUIPMENT

REPLACE Section in its entirety.

ITEM NO. 19 SECTION 11 66 43 - BASKETBALL SCOREBOARDS

ADD Paragraph 2.3.H to read:

- H. Quantity: 4; one per scoreboard.

ITEM NO. 20 SECTION 11 66 47 - BASKETBALL SHOT TIMER SCOREBOARDS

ADD Paragraph 2.1.A.1 to read:

1. Quantity: 2; one mounted to each main court basketball backstop in High School.

ITEM NO. 21 SECTION 12 61 00 - FIXED AUDIENCE SEATING

CHANGE Paragraph 2.3.B to read:

- B. Chair Mounting Standards: Floor attached of the following material:
1. Cast Metal: One-piece iron or aluminum castings with integral mounting points and attachment anchoring points for seat pivots, backs, and armrests.

ADD Paragraph 2.7.D.1 to read:

1. Table arms to only be provided at the first two rows of fixed seating, as indicated on Drawings.

ITEM NO. 22 SECTION 12 66 00 - TELESCOPING STANDS

CHANGE Paragraph 2.2.B.4 to read:

4. Row Rise:
 - a. High School: Nominal 10 inches.
 - b. Middle School: Nominal 12 inches.

ADD Paragraph 2.2.b.8.b.1) to read:

- 1) Only required when determined necessary by manufacturer.

CHANGE Paragraph 2.3.C to read:

- C. Deck: Plywood, 5/8 inch thick.
1. Finish: Transparent.

DELETE Paragraphs 2.5.A, B and D in their entirety.

ITEM NO. 23 SECTION 13 34 13 - GREENHOUSE AND GREENHOUSE RELATED EQUIPMENT

DELETE Subsection 3.13 EMERGENCY POWER in its entirety.

ITEM NO. 24 SECTION 230900 – INSTRUMENTATION AND CONTROL FOR HVAC

REMOVE Honeywell/Tridium from section.

ITEM NO. 25 SECTION 260519 – LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

REMOVE Paragraph 3.3(G).

ITEM NO. 26 SECTION 265561 – Theater Lighting Systems

REVISE Paragraph 1.8.B.1

REVISE Paragraph 1.8.C.1

REVISE Paragraph 2.2.U.1

REVISE Paragraph 2.4A.6.a

REVISE Paragraph 2.5.C.1.a

REVISE Paragraph 2.5.D.1.a

REVISE Paragraph 2.5.E.1.a

ADD Paragraph 2.6.D

See attached Section 26 55 61 - THEATER LIGHTING SYSTEMS_ADD3.

ITEM NO. 27 SECTION 265561 – Theater Lighting Systems

ADD Paragraph 2.6.D

DRAWING ITEMS:

CIVIL

ITEM NO. C1 SHEET SS-5 – SANITARY SEWER PROFILES

Revise sheet SS-5 per attached reissued sheet:

REVISE REVISED S-12 PIPE INVERT OUT.

ITEM NO. C2 SHEET W-3 – WATER MAIN PLAN (CENTER)

Revise sheet W-3 per attached reissued sheet:

REVISE REVISED TEE FROM 8 X 8 X 6 TO AND 8 X 8 X 8

ADD ADDED WATER VALVE

ITEM NO. C3 SHEET W-4 – WATER MAIN PLAN (EAST)

Revise sheet W-4 per attached reissued sheet:

ADD ADDED 8 X 8 X 2 TEE AND 2" DIP COLD WATER SUPPLY TO GREENHOUSE

ITEM NO. C4 SHEET W-5 – WATER MAIN PROFILES

Revise sheet W-5 per attached reissued sheet:

REVISE REVISED WATER LINE LENGTH.

REVISE REVISED WATER LINE LENGTH.

ADD ADDED WATER VALVE TO PROFILE.

REVISE REVISED WATER LINE DEPTH. ROUTED OVER SEWER INSTEAD OF DIPPING
WATER BELOW. ADDED TWO 45° VERTICAL BENDS.

ITEM NO. C5 SHEET W-6 – WATER MAIN PROFILES

Revise sheet W-6 per attached reissued sheet:

REVISE REVISED WATER LINE LENGTH.

REVISE REVISED TEE FROM 6 X 6 X 6 TO 6 X 6 X 2.

ADD ADDED TWO 3" 45° BENDS.

LABEL 74 LF 3" DIP

REMOVE 3 X 3 X 3 TEE & BUTTRESS

ITEM NO. C6 SHEET W-7 – WATER MAIN PROFILES

Revise sheet W-7 per attached reissued sheet:

REVISE WATER LINE ELEVATION TO FH-1.

ADD TOP ELEVATION TO VALVE TO FH-3

REVISE REVISED WATER LINE LENGTH.

REVISE REVISED WATER LINE LENGTH.

REVISE GRADES OF WATER VALVE TOPS AND HYDRANTS

ITEM NO. C7 SHEET C-5 – MAJOR SITE PLAN (CENTER)

Revise sheet C-5 per attached reissued sheet:

ADD LABEL ADDED FOR PROPOSED GOAL

ITEM NO. C8 SHEET C-6 – MAJOR SITE PLAN (EAST)

Revise sheet C-6 per attached reissued sheet:

ADD LINEWORK ADDED TO SHOW 4 PROPOSED GOALS ON ATHLETIC FIELD

ADD LABELS ADDED FOR 4 PROPOSED GOALS ON ATHLETIC FIELD

LANDSCAPE

ITEM NO. L1 SHEET L300 – PLANTING SOILS ENLARGEMENT -WEST

Revise sheet L300 per attached reissued sheet:

REVISE SWM soil areas have been modified to coordinate with the civil plans.

ITEM NO. L2 SHEET L403 – PLANTING PLAN - WEST

Revise sheet L403 per attached reissued sheet:

REVISE SWM plantings have been adjusted to coordinate with the civil plans.

ITEM NO. L3 SHEET L404 – PLANTING PLAN – CENTER

Revise sheet L404 per attached reissued sheet:

REVISE SWM plantings have been adjusted to coordinate with the civil plans.

ITEM NO. L4 SHEET L405 – PLANTING PLAN - EAST

Revise sheet L405 per attached reissued sheet:

REVISE SWM plantings have been adjusted to coordinate with the civil plans.

ITEM NO. L5 SHEET L430 – PLANT SCHEDULE

Revise sheet L430 per attached reissued sheet:

REVISE Revise Planting quantities to coordinate with SWM areas.

ITEM NO. L6 SHEET L502 – PRODUCT INFORMATION

Revise sheet L502 per attached reissued sheet:

ADD Light information to details A, B, and C.

ADD Front canopy information has been added to detail G.

ITEM NO. L7 SHEET L520 – WALL AND STAIR DETAILS

Revise sheet L520 per attached reissued sheet:

ADD Non-slip broom finish has been noted on all stair and ramp details.

ITEM NO. L8 SHEET L522 – WALL AND STAIR DETAILS

Revise sheet L522 per attached reissued sheet:

REVISE Revise note in detail A to indicate refer civil for chainlink fence.

ITEM NO. L9 SHEET L523 – FENCE AND ARBOR DETAILS

Revise sheet L523 per attached reissued sheet:

ADD Front canopy information has been added to details C & D.

ITEM NO. L10 SHEET L524 – WALL AND STAIR DETAILS

Revise sheet L524 per attached reissued sheet:

REVISE Detail A: The direction of the section has been modified to reflect the section callout on the materials plan.

ADD A concrete footer has been added to the stair cheek wall section.

ITEM NO. L11 SHEET L530 – FURNISHING DETAILS

Revise sheet L530 per attached reissued sheet:

REVISE Revise design of the guardrails from horizontal pickets to vertical pickets.

ITEM NO. L12 SHEET L802 – SPOT GRADES - ENLARGEMENTS

Revise sheet L802 per attached reissued sheet:

REVISE Plan enlargement A: Erroneous grading information has been removed from the plan.

ARCHITECTURAL

ITEM NO. A1 A012 - PHASE 1 TEMPORARY CONDITIONS

Revise sheet A012 per attached reissued sheet:

REVISE At Media (Temp) T107 revise note "TEMPORARY MEDIA CIRCULATION DESK -SYSTEMS FURNITURE" to read: "TEMPORARY MEDIA CIRCULATION DESK -SYSTEMS FURNITURE N.I.C."

ITEM NO. A2 A101A – LEVEL 01 LEVEL 01 AREA A PARTIAL FLOOR PLAN

Revise sheet A101A per attached reissued sheet:

ADD Add door tags at HS Nurse office A154 and MS Nurse Office A158

ITEM NO. A3 A101G – LEVEL 01 AREA G PARTIAL FLOOR PLAN

Revise sheet A101G per attached reissued sheet:

ADD Add labels and dimensions identifying Sound Barrier and Sound Barrier Gates surrounding the dust collector.

ADD Add wall section A12/A419 Sim. Reference at Stair 11 ST11.

ITEM NO. A4 A102G – LEVEL 02 AREA G PARTIAL FLOOR PLAN

Revise sheet A102G per attached reissued sheet:

ADD Add wall section A12/A419 Sim. Reference at Stair 11 ST11.

ITEM NO. A5 A103G – LEVEL 03 AREA G PARTIAL FLOOR PLAN

Revise sheet A103G per attached reissued sheet:

ADD Add wall section A12/A419 Sim. Reference at Stair 11 ST11.

ITEM NO. A6 A307 – DOOR SCHEDULE

Revise sheet A307 per attached reissued sheet:

ADD Door information at doors E107B, XC06.

ITEM NO. A7 A308 – HEAD, SILL, AND JAMB DETAILS

Revise sheet A308 per attached reissued sheet:

REVISE At Detail J4, revise dimension string from 1" to 2".

ITEM NO. A8 A312 – FRAME ELEVATIONS - HM

Revise sheet A312 per attached reissued sheet:

REVISE Frame sizes at SPECIAL FRAME TYPES SP1, SP2.

ITEM NO. A9 A402 – BUILDING SECTIONS

Revise sheet A402 per attached reissued sheet:

REVISE Revise telescoping stands in MS Gym to reflect sizing indicated in specifications and increase number of rows.

REVISE Revise telescoping stands in HS Gym to reflect sizing indicated in specifications and increase number of rows.

ITEM NO. A10 A405 – BUILDING SECTIONS

Revise sheet A405 per attached reissued sheet:

REVISE Revise telescoping stands in HS Gym to reflect sizing indicated in specifications and increase number of rows.

ITEM NO. A11 A408 – WALL SECTIONS

Revise sheet A408 per attached reissued sheet:

REVISE A6/A408, revise A7/A420 detail reference, add TPO roofing system notation & metal panel type 4 on CFMF notation.

ITEM NO. A12 A415 – WALL SECTIONS

Revise sheet A415 per attached reissued sheet:

- REVISE** A3/A415, revise to add wall type.
- REVISE** A6/A415, revise to add wall type, & foundation wall.
- REVISE** A9/A415, revise to add wall type, & foundation wall.
- REVISE** A12/A415, revise to add wall type, & foundation wall.

ITEM NO. A13 A418 – WALL SECTIONS

Revise sheet A418 per attached reissued sheet:

- REVISE** A12/A418, revise to add wall types, standing seam metal roof panel w/ concealed gutter notation, & metal panel type 1 on CFMF notation.

ITEM NO. A14 A419 – WALL SECTIONS

Revise sheet A419 per attached reissued sheet:

- REVISE** A3/A419, revise to add wall type.
- REVISE** A12/A419, revise to add wall type, add D9/A432 roof detail reference, TPO roofing system notation & metal panel type 4 on CFMF notation.
- REVISE** A15/A419, revise to add metal panel type 4 on CFMF notation.

ITEM NO. A15 A501 – TYPICAL TOILET ROOM PLANS AND ACCESSIBILITY DETAILS

Revise sheet A501 per attached reissued sheet:

- REVISE** At Toilet Accessory Schedule revise grab bar and changing table model numbers for Bobrick and A.S.I.

ITEM NO. A16 A601 – INTERIOR ELEVATIONS

Revise sheet A601 per attached reissued sheet:

- REVISE** Revise dimension string at wall safety pads to accurately reflect wall pad height.

ITEM NO. A17 A602 – INTERIOR ELEVATIONS

Revise sheet A602 per attached reissued sheet:

- REVISE** Revise telescoping stands in HS Gym to reflect sizing indicated in specifications and increase number of rows.

ITEM NO. A18 A603 – INTERIOR ELEVATIONS

Revise sheet A603 per attached reissued sheet:

- REVISE** Revise telescoping stands in HS Gym to reflect sizing indicated in specifications and increase number of rows.
- REVISE** Revise dimension string at wall safety pads to accurately reflect wall pad height.

ITEM NO. A19 A604 – INTERIOR ELEVATIONS

Revise sheet A604 per attached reissued sheet:

REVISE Revise telescoping stands in MS Gym to reflect sizing indicated in specifications and increase number of rows.

REVISE Revise dimension string at wall safety pads to accurately reflect wall pad height.

ITEM NO. A20 A605 – INTERIOR ELEVATIONS

Revise sheet A605 per attached reissued sheet:

REVISE Revise dimension string at wall safety pads to accurately reflect wall pad height.

ITEM NO. A21 A700 – CEILING DETAILS

Revise sheet A700 per attached reissued sheet:

REVISE Detail reference at Detail E9.

ITEM NO. A22 A800 – FURNITURE AND EQUIPMENT SCHEDULES

Revise sheet A800 per attached reissued sheet:

REVISE Detail reference at Counter Type C5.

REVISE Detail reference at Counter Type C6.

ADD New Counter Type C10 under FURNISHING SCHEDULE – COUNTERTOPS.

ADD Item E18 KILN under EQUIPMENT SCHEDULE

REVISE Manufacturer and Model numbers for Items E4, E5 and E12 under EQUIPMENT SCHEDULE

ITEM NO. A23 A800A - LEVEL 00 AREA A FURNITURE PLAN

Revise sheet A800A per attached reissued sheet:

REVISE Revise telescoping stands in MS Gym to reflect sizing indicated in specifications and increase number of rows.

REVISE Revise telescoping stands in HS Gym to reflect sizing indicated in specifications and increase number of rows.

ITEM NO. A24 A800B – LEVEL 00 AREA B FURNITURE PLAN

Revise sheet A800B per attached reissued sheet:

REVISE At Grounds Equipment Storage B022 revise note “WORK BENCHES” to read: “WORK BENCHES N.I.C.”

REVISE At MS Cafeteria B007 revise detail references at counters along Southeast wall.

ITEM NO. A25 A800C – LEVEL 00 AREA C FURNITURE PLAN

Revise sheet A800C per attached reissued sheet:

ADD New Tags to casework at MS Social Studies C029.

ITEM NO. A26 A804 – MILLWORK AND INTERIOR DETAILS - TYPICALS

Revise sheet A804 per attached reissued sheet:

REVISE Delete Detail D10.

REVISE Countertop profile on Detail D7.

ITEM NO. A27 A801D – LEVEL 01 AREA D FURNITURE PLAN

Revise sheet A801D per attached reissued sheet:

ADD Equipment Tags to Kilns in Kiln Room D113

ITEM NO. A28 SHEET A810A - LEVEL 00 FLOOR PATTERN PLAN

Revise sheet A810A per attached reissued sheet:

REVISE Reissue sheet to properly display floor patterns.

ITEM NO. A29 SHEET A811A - LEVEL 01 AREA NORTH PARTIAL FLOOR PATTERN PLAN

Revise sheet A811A per attached reissued sheet:

REVISE Reissue sheet to properly display floor patterns.

ITEM NO. A30 SHEET A811B - LEVEL 01 AREA SOUTH PARTIAL FLOOR PATTERN PLAN

Revise sheet A811B per attached reissued sheet:

REVISE Reissue sheet to properly display floor patterns.

ITEM NO. A31 SHEET A812A - LEVEL 02 AREA NORTH PARTIAL FLOOR PATTERN PLAN

Revise sheet A812A per attached reissued sheet:

REVISE Reissue sheet to properly display floor patterns.

ITEM NO. A32 SHEET A812B - LEVEL 02 AREA SOUTH PARTIAL FLOOR PATTERN PLAN

Revise sheet A812B per attached reissued sheet:

REVISE Reissue sheet to properly display floor patterns.

ITEM NO. A33 SHEET A813A - LEVEL 03 FLOOR PATTERN PLAN

Revise sheet A812B per attached reissued sheet:

REVISE Reissue sheet to properly display floor patterns.

ITEM NO. A34 A900 – OUTBUILDINGS – CODE STUDY

Revise sheet A900 per attached reissued sheet:

REVISE Door information at doors H200B, H200C, H306B, H306C, H306D.

ITEM NO. A35 A903 – OUTBUILDINGS - EVENT BUILDINGS

Revise sheet A903 per attached reissued sheet:

REVISE Sheet layout and miscellaneous detail numbers.
REVISE Interior counters to new Type C10 at TICKET BOOTH (Detail A18) and at CONCESSIONS (Detail A15). NOTE: Added detail reference to Detail A15.
REVISE Location of toilet rooms accessories in stalls to match referenced types.
ADD Note to Detail A18 TICKET BOOTH – PLAN.
ADD Miscellaneous notes to TICKET BOOTH Elevations (Dets. J16, J18, L16, and L18).
ADD Miscellaneous notes to CONCESSIONS Elevations (Details G8, G10, G13, and J8).
ADD Slope arrows and note to Detail E15 CONCESSIONS – ROOF PLAN.
ADD Note to Detail E18 TICKET BOOTH – ROOF PLAN.
ADD Detail F18 TICKET BOOTH – SECTION and associated reference (Detail A18).
ADD Detail J14 CONCESSIONS – SECTION and associated reference (Detail A15).

ITEM NO. A36 A904 – OUTBUILDINGS - GEOTHERMAL BUILDINGS

Revise sheet A904 per attached reissued sheet:

ADD Detail H16 GEOTHERMAL BLDG – SECTION and associated references (Details A4 and A9).
ADD Miscellaneous notes to GEOTHERMAL BLDG Elevations (Details A12, A16, B12, and B16).
ADD Note to Detail H9 GEOTHERMAL BLDG SOUTH – ROOF PLAN.

ITEM NO. A37 A905 – OUTBUILDINGS - DETAILS

Revise sheet A905 per attached reissued sheet:

ADD Detail C14 DUGOUT – SECTION and associated reference (Detail A6).
ADD Detail G6 SILL DETAIL - TRANSACTION COUNTER.
ADD 8" CMU WALL, TYP note to walls in Detail A6 DUGOUT - PLAN (TYP. OF 4).
ADD Note to Detail D10 DUGOUT – ROOF PLAN.

KITCHEN **NO ITEMS**

STRUCTURAL

ITEM NO. S1 S100E – FOUNDATION AND SLAB ON GRADE PLAN-AREA E

Revise sheet S100E per attached reissued sheet:

ADD Add spot elevations at stepped footings along line K' to plan.

ITEM NO. S2 S100F – FOUNDATION AND SLAB ON GRADE PLAN-AREA F

Revise sheet S100F per attached reissued sheet:

ADD Top of pier elevations to plan.

ITEM NO. S3 S100G – FOUNDATION AND SLAB ON GRADE PLAN-AREA G

Revise sheet S100G per attached reissued sheet:

ADD Masonry pier tag.

ITEM NO. S4 S101C – LEVEL 01 FLOOR FRAMING PLAN – AREA C

Revise sheet S101C per attached reissued sheet:

ADD Framing, tags, and section G/S515 to plan.

ITEM NO. S5 S102B – LEVEL 02 FLOOR AND LOW ROOF FRAMING PLAN – AREA B

Revise sheet S102B per attached reissued sheet:

ADD Framing, tags, and section D/S517 to plan.

ITEM NO. S6 S102F – LEVEL 02 FLOOR AND LOW ROOF FRAMING PLAN – AREA F

Revise sheet S102F per attached reissued sheet:

ADD Sections along lines K', L', 8', 14', M.4'.

ADD Framing along line 14'.

ADD Framing along line 8'.

ITEM NO. S7 S102G – LEVEL 02 FLOOR FRAMING PLAN – AREA G

Revise sheet S102G per attached reissued sheet:

ADD Lintel tags at stair tower openings.

ADD shear studs to stair landing beams.

ADD section for tube support at column.

REVISE Framing at canopies and associated details.

ITEM NO. S8 S103G – LEVEL 03 FLOOR FRAMING PLAN – AREA G

Revise sheet S103G per attached reissued sheet:

ADD Steel framing in exterior walls.

ITEM NO. S9 S104G – ROOF AND PENTHOUSE FLOOR FRAMING PLAN – AREA G

Revise sheet S104G per attached reissued sheet:

ADD Detail C/S517

ITEM NO. S10 S202 – SHEAR WALL PLAN

Revise sheet S202 per attached reissued sheet:

DELETE delete unused shear wall tags.

ITEM NO. S11 S508 –SECTIONS

Revise sheet S508 per attached reissued sheet:

REVISE Provide missing information for full depth connection plate shown in detail.

ITEM NO. S12 S513 –SECTIONS

Revise sheet S513 per attached reissued sheet:

REVISE Revise details F and J on S513

ITEM NO. S13 S517 –SECTIONS

Add sheet S517 per attached issued sheet:

ADD issue new sheet new added sections.

ITEM NO. S14 S603 –EVENT BUILDINGS FOUNDATION AND FRAMING PLAN

Revise sheet S603 per attached reissued sheet:

ADD Roof perimeter sections at concessions and ticketing booth.
ADD roof perimeter framing at concessions.

ITEM NO. S15 S604 – GEOTHERMAL BUILDINGS FOUNDATION AND FRAMING
PLAN

Revise sheet S604 per attached reissued sheet:

ADD Reinforcing to concrete beam.

ITEM NO. S16 S606 – DUGOUT FOUNDATION AND SLAB ON GRADE AND ROOF
FRAMING

Add sheet S606 per attached issued sheet:

ADD issue new sheet with dugout foundation and framing plans and perimeter
sections.

MECHANICAL

ITEM NO. M1 SHEET M001 – MECHANICAL LEGEND & ABBREVIATION

Revise sheet M001 per attached reissued sheet:

ADD RL, RS to Mechanical Legend.

ITEM NO. M2 SHEET M100A – LEVEL 00 AREA A PARTIAL FLOOR PLAN

Revise sheet M100A per attached reissued sheet:

REVISE Fire damper locations in multiple areas.

ADD Fire damper.

ITEM NO. M3 SHEET M100B – LEVEL 00 AREA B PARTIAL FLOOR PLAN

Revise sheet M100B per attached reissued sheet:

ADD CD in 19"x8" duct between water room B029 and Fire pump room B028.

REVISE Fire damper location.

ITEM NO. M4 SHEET M100C – LEVEL 00 AREA C PARTIAL FLOOR PLAN

Revise sheet M100C per attached reissued sheet:

REVISE Fire damper locations in multiple areas.

ITEM NO. M5 SHEET M100F – LEVEL 00 AREA F PARTIAL FLOOR PLAN

Revise sheet M100F per attached reissued sheet:

REVISE Fire damper locations in multiple areas.

ITEM NO. M6 SHEET M101A – LEVEL 01 AREA A PARTIAL FLOOR PLAN

Revise sheet M101A per attached reissued sheet:

ADD Fire dampers in multiple locations.

REVISE SA-6 sound attenuator location.

REVISE duct detector location.

ADD Exhaust grille and ductwork to MS MIP LAVTORY B102.

ADD Drawing note "49. "8"x8" E/A DUCT UP W/MOD TO F-76 ON ROOF".

ITEM NO. M7 SHEET M101C – LEVEL 01 AREA C PARTIAL FLOOR PLAN

Revise sheet M101C per attached reissued sheet:

REVISE Fire damper locations in multiple areas.

ITEM NO. M8 SHEET M101D – LEVEL 01 AREA D PARTIAL FLOOR PLAN

Revise sheet M101D per attached reissued sheet:

ADD Fire dampers in multiple locations.

REVISE Diffuser S9, S10 and R19 in Corridor D12.

ADD Drawing note "31. 15"x15" FIRE RATED SUPPLY AIR DIFFUSER @ 450 CFM (TITUS TDC-FR OR EQUAL)."

ADD Drawing note "32. 12"x12" FIRE RATED SUPPLY AIR DIFFUSER @ 250 CFM (TITUS TDC-FR OR EQUAL)."

ADD Drawing note "33. 12"x12" FIRE RATED SUPPLY AIR DIFFUSER @ 150 CFM (TITUS TDC-FR OR EQUAL)."
ADD Drawing note "34. 22"x22" FIRE RATED, FILTER RETURN AIR GRILLE @ 600 CFM (PRICE 530FF-FR OR EQUAL)."

ITEM NO. M9 SHEET M101E – LEVEL 01 AREA E PARTIAL FLOOR PLAN

Revise sheet M101E per attached reissued sheet:

ADD Fire dampers in multiple locations.

ITEM NO. M10 SHEET M101F – LEVEL 01 AREA F PARTIAL FLOOR PLAN

Revise sheet M101F per attached reissued sheet:

ADD MOD.

ADD Fire dampers in multiple locations.

REVISE Fire damper locations in multiple areas.

ITEM NO. M11 SHEET M101G – LEVEL 01 AREA G PARTIAL FLOOR PLAN

Revise sheet M101G per attached reissued sheet:

REVISE Drawing note bubble 21, "12"Ø WALL CAP WITH BACK DRAFT DAMPER AND BIRD SCREEN" To "12"Ø WALL CAP WITH MOD DAMPER AND BIRDSCREEN INTERLOCKED WITH FAN."

REVISE Fire damper locations in multiple areas.

ITEM NO. M12 SHEET M102B – LEVEL 02 AREA B PARTIAL FLOOR PLAN

Revise sheet M102B per attached reissued sheet:

DELETE S3/1050 CFM and transition ductwork to elev. Machine room B203.

REVISE 16"x12" S/A duct to open end duct with FD.

ITEM NO. M13 SHEET M102C – LEVEL 002 AREA C PARTIAL FLOOR PLAN

Revise sheet M102C per attached reissued sheet:

ADD Fire damper locations in multiple areas.

ITEM NO. M14 SHEET M102D – LEVEL 02 AREA D PARTIAL FLOOR PLAN

Revise sheet M102D per attached reissued sheet:

ADD Fire dampers in multiple locations.

ITEM NO. M15 SHEET M102G – LEVEL 02 AREA G PARTIAL FLOOR PLAN

Revise sheet M102G per attached reissued sheet:

REVISE Fire damper locations in multiple areas.

ITEM NO. M16 SHEET M103D – LEVEL 03 AREA D PARTIAL FLOOR PLAN

Revise sheet M103D per attached reissued sheet:

ADD Fire damper in multiple locations.

ITEM NO. M17 SHEET M103F – LEVEL 03 AREA F PARTIAL FLOOR PLAN

DELETE drawing bubble 1, 2, 3 and 5 on floor plan related to Gym and stage ductwork.

ITEM NO. M18 SHEET M103G – LEVEL 03 AREA G PARTIAL FLOOR PLAN

Revise sheet M103G per attached reissued sheet:

ADD Fire dampers in multiple locations.

ITEM NO. M19 SHEET M105 – LEVEL 04 SOUTH PARTIAL ROOF PLAN

Revise sheet M105 per attached reissued sheet:

ADD FAN-76.

ITEM NO. M20 SHEET M904 – FAN AND MISCELLANEOUS SCHEDULE

Revise sheet M904 per attached reissued sheet:

ADD F-76 to schedule sheet.

PLUMBING

ITEM NO. P1 SHEET P003 – UNDERSLAB DRAINAGE PLAN

Revise sheet P003 per attached reissued sheet:

ADD Underslab drainage piping cleanouts at multiple locations.

ITEM NO. P2 SHEET P100A – LEVEL 00 AREA A PARTIAL FLOOR PLAN

Revise sheet P100A per attached reissued sheet:

REVISE FD size/type in A028.

ITEM NO. P2 SHEET P101D – LEVEL 01 AREA D PARTIAL FLOOR PLAN

Revise sheet P101D per attached reissued sheet:

ADD ¾" NFWH at (2) locations.

ITEM NO. P3 SHEET P101E – LEVEL 01 AREA E PARTIAL FLOOR PLAN

Revise sheet P101E per attached reissued sheet:

ADD ¾" NFWH at (1) location.

ITEM NO. P4 SHEET P101F – LEVEL 01 AREA F PARTIAL FLOOR PLAN

Revise sheet P101F per attached reissued sheet:

ADD 3/4" NFWH at (1) location.

ITEM NO. P5 SHEET P101G – LEVEL 01 AREA G PARTIAL FLOOR PLAN

Revise sheet P101G per attached reissued sheet:

ADD 3/4" NFWH at (3) locations.

ITEM NO. P6 SHEET P401 – OUTBUILDINGS – CONCESSIONS AND TICKET BOOTH

Revise sheet P401 per attached reissued sheet:

REVISE Drawing note bubbles 3 on floor plans to match notes.

ITEM NO. P7 SHEET P403 – GEOTHERMAL PUMP ROOMS

Revise sheet P403 per attached reissued sheet:

REVISE Drawing note bubbles on floor plans to match notes.

ITEM NO. P8 SHEET P604 – DOMESTIC WATER RISER DIAGRAMS – AREA D/E/G

Revise sheet P604 per attached reissued sheet:

ADD 3/4" NFWH at (3) locations.

ADD Sink in Kiln Room D113 to Domestic Water Riser Diagram.

REVISE Pipe sizes for domestic branches to D108 and D118.

ITEM NO. P9 SHEET P605 – DOMESTIC WATER RISER DIAGRAMS – AREA F/G

Revise sheet P605 per attached reissued sheet:

ADD 3/4" NFWH at (4) locations.

ADD Hammer Arrestors to (2) P8 fixtures.

REVISE Branch run pipe size to HS G111.

ITEM NO. P10 SHEET P607 – SANITARY AND VENT RISER DIAGRAMS – AREA A

Revise sheet P607 per attached reissued sheet:

REVISE (1) fixture from P3A to P5 to match floor plans.

FIRE PROTECTION

ITEM NO. FP1 SHEET FP701 – FIRE PROTECTION DETAILS

Revise sheet FP701 per attached reissued sheet:

REVISE Fire Pump from 45Hp to 50Hp.

ELECTRICAL

ITEM NO. E1 SHEET E002 – SITE PLAN – ELECTRICAL – WEST

Revise sheet E002 per attached reissued sheet:

REMOVE (1) primary feeder handholes to Fire Pump transformer.
CLARIFY Utility Primary Handhole to Fire Pump transformer.

ITEM NO. E2 SHEET E003 – SITE PLAN – ELECTRICAL – EAST

Revise sheet E003 per attached reissued sheet:

REVISE Campus incoming service primary cabinet/switchgear to be (2) separate pieces of equipment. CT Metering cabinet by Utility and Pad-mounted switchgear by EC.

REVISE Layout of Fire Pump transformer and CT cabinet. Offset CT cabinet per Utility request.

REMOVE (2) primary feeder handholes to Fire Pump transformer.

REMOVE (1) handhole to MS-XFMR.

CLARIFY Contractor responsibility for site equipment pads to be coordinated with utility and manufacturer recommendations.

ITEM NO. E3 SHEET E100A – LEVEL 01 AREA A PARTIAL FLOOR PLAN LIGHTING

Revise sheet E100A per attached reissued sheet:

ADD Wall Switch Sensor combination at A016A.

ITEM NO. E4 SHEET E101A – LEVEL 01 AREA A PARTIAL FLOOR PLAN LIGHTING

Revise sheet E101A per attached reissued sheet:

REVISE At MS MIP Lavatory B102, Revise combination Sensor Switch from single relay to dual relay for exhaust fan control.

ADD Ceiling vacancy sensor to A179.

ITEM NO. E5 SHEET E101B – LEVEL 01 AREA B PARTIAL FLOOR PLAN LIGHTING

Revise sheet E101B per attached reissued sheet:

REVISE At MS Lavatory B110, Revise combination Sensor Switch from single relay to dual relay for exhaust fan control.

ITEM NO. E6 SHEET E101C – LEVEL 01 AREA C PARTIAL FLOOR PLAN LIGHTING

Revise sheet E101C per attached reissued sheet:

REVISE At Stair 3 ST03, Revise three type 'F' light fixtures to type 'FH'.

ITEM NO. E7 SHEET E102C – LEVEL 02 AREA C PARTIAL FLOOR PLAN LIGHTING

Revise sheet E102C per attached reissued sheet:

ADD Ceiling mounted low voltage dual tech. vacancy sensor to C202.

ITEM NO. E8 SHEET E102D – LEVEL 02 AREA D PARTIAL FLOOR PLAN – LIGHTING

Revise sheet E102D per attached reissued sheet:

ADD/Clarified Fixture Tag and associated circuit reference to one (1) type 'AHS' light fixture at Stair 7 ST07.

ITEM NO. E9 SHEET E102G – LEVEL 02 AREA G PARTIAL FLOOR PLAN – LIGHTING

Revise sheet E102G per attached reissued sheet:

ADD 0-10v. Dimmer Switch for localized control of under cabinet lighting system at HS Social Studies G204, G206 and HS English G215.

ITEM NO. E10 SHEET E200A – LEVEL 00 AREA A PARTIAL FLOOR PLAN POWER

Revise sheet E200A per attached reissued sheet:

ADD Mat Hoist provisions to Aux Gym A001.

ITEM NO. E11 SHEET E205 – ROOF PLAN SOUTH

Revise sheet E205 per attached reissued sheet:

ADD FAN-76.

ITEM NO. E12 SHEET E300B – LEVEL 00 AREA B PARTIAL FLOOR PLAN FIRE ALARM

Revise sheet E300B per attached reissued sheet:

ADD Smoke Damper between Fire Pump and Water Rooms.

ITEM NO. E13 SHEET E303F – LEVEL 03 AREA F PARTIAL FLOOR PLAN FIRE ALARM

Revise sheet E303F per attached reissued sheet:

ADD Pull station at Stair 10.

ITEM NO. E14 SHEET E501 – ELECTRICAL DETAILS

Revise sheet E501 per attached reissued sheet:

REVISE Detail 11/E501 to indicate general emergency circuit designations for generator.

REVISE Detail 12/E501 to clarify junction boxes are to be sized per conduit runs.

ITEM NO. E15 SHEET E502 – ELECTRICAL DETAILS

Revise sheet E502 per attached reissued sheet:

REVISE Detail 1/E502 to indicate both HS-MSB and MS-MSB ground connections.

ITEM NO. E16 SHEET E601 – SCHEMATIC POWER RISER DIAGRAM

Revise sheet E601 per attached reissued sheet:

REVISE Campus incoming service primary cabinet/switchgear to be (2) separate pieces of equipment. CT Metering cabinet by Utility and Pad-mounted switchgear by EC.

CLARIFY Equipment provided by utility as well as cabling requirements between metering cabinet and pad-mounted switchgear.

REVISE Generator Rating from 1MW to 1.25MW.

REVISE Fire Pump motor Hp rating from 75Hp to 50Hp.

ITEM NO. E17 SHEET E702 – MECHANICAL EQUIPMENT CONNECTION SCHEDULES

Revise sheet E702 per attached reissued sheet:

ADD FAN-76.

ITEM NO. E18 SHEET E713 – PANEL SCHEDULES

Revise sheet E713 per attached reissued sheet:

ADD FAN-76 to Panel R1A.

ITEM NO. E19 SHEET E716 – PANEL SCHEDULES

Revise sheet E716 per attached reissued sheet:

ADD Dedicated generator circuits to E2L0B.

ITEM NO. E20 SHEET E717 – PANEL SCHEDULES

Revise sheet E717 per attached reissued sheet:

ADD Dedicated generator circuits to E2R0B.

ITEM NO. E21 SHEET E719 – PANEL SCHEDULES

Revise sheet E719 per attached reissued sheet:

ADD Matt hoist circuit to E3R0A.

TECHNOLOGY **NO ITEMS**

AUDIOVISUAL **NO ITEMS**

THEATER

ITEM NO. TE1 Sheet TE001 – NOTES

REVISE Curtain Schedule

REVISE Circuit Schedule

ITEM NO. TE2 Sheet TE601 – RISER DIAGRAMS

REVISE CS and CS1 prese station
REVISE Added Emergency Bypass Control and an Emergency Bypass Detection Kit

ITEM NO. TE3 Sheet TE602 – LIGHT PLOT

ADD Sheet
ADD Light Plot
ADD Lighting Fixture Schedule

SECURITY **NO ITEMS**

SECTION 00 41 00 – Bid FORM

DATE: _____

TO: CECIL COUNTY BOARD OF EDUCATION
201 BOOTH STREET
ELKTON, MARYLAND 21921

I/We _____ of _____
Name of Contractor Name of Company

The undersigned, having carefully examined the Contract Documents, having visited the site and examined all conditions affecting the work, and having received clarification of all items of doubt, and all addendums listed below, uncertainty or possible conflict, the undersigned hereby agrees to furnish all plant, labor, materials, supplies, equipment, tools, transportation, permits, services and other facilities necessary for the **North East Middle/High School Project** as required in strict accordance with the contract documents and all applicable local, state and federal regulations as follows:

BID PACKAGE # _____ BID PACKAGE TITLE _____

BASE BID 1 – Three (3) Phase Construction Schedule

All labor, materials, bonds, fees, permits, sales taxes, and equipment required to complete the work as specified in project specifications and drawings for the **North East Middle/High School Project**.

_____ Dollars (\$ _____)

BASE BID 2 – Two (2) Phase Construction Schedule

All labor, materials, bonds, fees, permits, sales taxes, and equipment required to complete the work as specified in project specifications and drawings for the **North East Middle/High School Project**.

_____ Dollars (\$ _____)

ADD ALTERNATES

Provide pricing below to include all labor, materials, and associated fees to provide each of the following per the drawings and specifications:

ALTERNATE BID #1: Educational casework substrate

_____ Dollars (\$)_____

ALTERNATE BID #2: Greenhouse

_____ Dollars (\$)_____

ALTERNATE BID #3: Pre-K Room

_____ Dollars (\$)_____

ALTERNATE BID #4: Front canopy

_____ Dollars (\$)_____

ALTERNATE BID #5: Illuminated wall cladding

_____ Dollars (\$)_____

ALTERNATE BID #6: Mechanical connections

_____ Dollars (\$)_____

ALTERNATE BID #7: HVAC plumbing connections

_____ Dollars (\$)_____

ALTERNATE BID #8: Gymnasium ductwork

_____ Dollars (\$)_____

ALTERNATE BID #9: Electrical wiring for feeders 100A and above

_____ Dollars (\$)_____

ALTERNATE BID #10: Transformer windings

_____ Dollars (\$)_____

ALTERNATE BID #11: Electrical branch circuits

_____ Dollars (\$)_____

ALTERNATE BID #12: Fire alarm wiring

_____ Dollars (\$) _____)

ALTERNATE BID #13: Conduit fittings

_____ Dollars (\$) _____)

ALTERNATE BID #14: Middle School Classrooms

_____ Dollars (\$) _____)

ALTERNATE BID #15: High School CTE

_____ Dollars (\$) _____)

ALTERNATE BID #16: Auditorium Balcony

_____ Dollars (\$) _____)

ALTERNATE BID #17: High School Classrooms

_____ Dollars (\$) _____)

ADDENDA(S)

I/We acknowledge receipt of Addenda Nos. ____, ____, ____, ____,____ and ____.

PERFORMANCE AND LABOR AND MATERIAL PAYMENT BONDS

By signing and submitting this bid, the Bidder certifies that they will furnish Performance and Labor and Material Payment Bonds (AIA A312) in amounts sufficient to cover the total proposed cost of the work. The bonds will be amended and maintained current as required by Owner, with all additions or deletions from the contract work. Bonds shall be payable to the Board of Education of Cecil County.

TIME OF COMMENCEMENT, COMPLETION AND DAMAGES

Work at the sites shall begin and be substantially completed as described in the Project documents. This is expressly declared to be of the essence in completion of the work covered by these contract documents, and liquidated damages **may** be assessed in the amount of **\$3,500.00** per day for each calendar day beyond **the substantial completion date as specified in the Project documents** where the lack of completion of the work is

creating a hardship for the Owner and where the Owner is burdened with actual expenses as a result of the Contractor not finishing the work in a timely manner.

BUY AMERICAN STEEL

Please indicate below if your Bid is contingent upon using foreign steel as defined in *17.301 – 17.306 of the Annotated Code of Maryland State Finance and Procurement Article* and as referenced in the Instruction to Bidders Section 27.0 and the Supplementary General Conditions to AIA A201-2017 Section 20.1. If no steel is to be purchased for this project, check N/A.

YES _____ NO _____ N/A _____

UNIT PRICES

Unit prices are for both extra Work and credits. This list of prices will be submitted with the Bid in triplicate and shall become a part of the Contract upon its award. Unit prices listed below are applicable to all Work in this project involving extra materials/services performed by the Contractor or his Subcontractors and/or credits to the Owner for materials/services deleted from the project. Unit price includes all overhead and profit for the Subcontractor. Contractor mark-up is to be applied per Article 7 of the General Conditions of the Contract for Construction, AIA Document A201 REV.DOC-2007 edition. Prices as stated shall remain in effect through the end of the Contract warranty period. The undersigned acknowledges the unit price values as part of this bid and agrees to add or delete items for the unit prices identified when directed to do so by the Owner.

ITEM	DESCRIPTION OF ITEM	UNIT	PRICE
1.	Earth excavation – machine	cu. yd.	\$4.50
2.	Earth excavation – hand	cu. yd.	\$60.00
3.	Trench machine earth excavation	cu. yd.	\$5.50
4.	Excavate and remove unsuitable material from site		
	- Yardage under 5,000	cu. yd.	\$19.00
	- Yardage over 5,000 up to 20,000	cu. yd.	\$16.00
	- Yardage over 20,000 to be negotiated at a lower rate		
5.	Furnish, deliver, spread and compact imported fill material		
	- Yardage under 5,000	cu. yd.	\$19.00
	- Yardage over 5,000 up to 20,000	cu. yd.	\$16.00
	- Yardage over 20,000 to be negotiated at a lower rate		
6.	Imported screened top soil (spread)	cu. yd.	\$25.00

7. Remove and dispose of petroleum contaminated soil. This unit price only includes material requiring contaminate content removal. If the Owner locates a suitable dumping location not requiring contaminate removal in material, the Contractor shall use unit price 4 above for excavation and removal from site only.	ton	\$70.00
8. Soil Cement Pavement subgrade in 12 inch thickness.	sq. yd.	\$16.00
9. Sodding, includes watering as required	sq. yd.	\$4.10
10. Hydroseeding	sq. yd.	\$0.80
11. Concrete Walk (4 inch) w/ 10/10 wwm	sq. yd.	\$38.00
12. Bank run gravel under slab	cu. yd.	\$35.00
Compacted G.A.B. under asphalt	cu. yd.	\$40.00
13. 4" concrete slabs with 6x6 10/10 wwm	sq. ft.	\$4.25
14. Bituminous Paving Play Areas Light duty 4 " G.A.B. 2½" 9.5mm 1½" of 4.75mm	sq. yd.	\$32.00
15. Bituminous Paving Heavy Duty 8" G.A.B. 4" Base 2 Layers 19mm 2" Top Coat of 9.5mm	sq. yd.	\$37.00
16. Reinforced concrete footings	cu. yd.	\$260.00
17. 4" C.M.U. wall	sq. ft.	\$6.00
18. 6" C.M.U. wall	sq. ft.	\$6.60
19. 8" C.M.U. wall	sq. ft.	\$8.10
20. 12" C.M.U. wall	sq. ft.	\$9.00
21. 4" face brick	sq. ft.	\$14.40
22. VCT	sq. ft.	\$3.25
23. Carpeting	sq. yd.	\$27.00
24. Floor patching		
- Skim coat, up to 1/8 inch thickness	sq. ft.	\$0.65
- Leveling, up to ¼ inch thickness	sq. ft.	\$0.92

- Leveling, up to ½ inch thickness	sq. ft.	\$1.32
- Topping, up to ¾ inch thickness	sq. ft.	\$1.50
- Topping, up to 1 ½ inch thickness	sq. ft.	\$2.00
- Topping, up to 2 inch thickness	sq. ft.	\$2.50
25. Bulk Rock Excavation and Removal Off-Site (see Section 022000)	cu .yd.	\$75.00
26. Trench Rock Excavation and Removal Off-Site	cu. yd.	\$150.00
27. Geothermal Borehole Casing	lin. ft.	\$12.00

ADDITIONAL INFORMATION

1. The Bidder declares that in preparing this bid, they have assured themselves of the availability of all labor, materials, and products to meet the substantial completion date.
2. By signing this bid, the Bidder certifies that they do not or will not discriminate against his employees on the basis of actual or perceived race, color, religion, national origin, sex, age, marital status, sexual orientation, genetic information, gender identity, or disability. They further certifies that the Bidder does not maintain or provide for his employees facilities, which are segregated on any of the above categories.
3. By signing of this bid, each Bidder certifies that this bid has been arrived at independently without consultation, communication, or agreement as to any matter relating to this bid with any other Bidder or with any competitor.
4. By signing this bid, the contractor certifies that this bid is in compliance with all local and applicable codes.
5. The Owner reserves the right to approve or reject the Bidder's proposed subcontractor(s) in accordance with the requirements of the general and special conditions.
6. The Bidder declares by signing this bid proposal that they have carefully verified through visual inspection that all dimensions, square footages and quantities shown in the drawings and specification are correct to the best of his knowledge and this information was used in the preparation of this bid proposal.

I/We agree to substantially complete all base bid as well as any alternate work selected by the Owner at the time of contract award at the specified school facility **as described in the project documents.**

I/We enclose herewith Surety Bond \$ _____, being 5% of the bid price submitted herewith, together with a letter from the Surety Company whose Bid Bond is enclosed.

I/We enclose herewith Certified Check, payable to the Board of Education of Cecil County, for \$ _____ being 5% of the bid price submitted herewith.

I/We attach the following items as indicated below by the Owner with an "X":

_____	Anti-Bribery Affidavit
_____	Bid Bond / Certified Check as stipulated above.
_____	Consent of Surety as stipulated above.
_____	MBE Attachment D-1A
	Part 2 - MBE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT
	Part 3 - MBE PARTICIPATION SCHEDULE
	Part 4 - SIGNATURE PAGE
_____	Corporate Diversity Addendum
_____	Contractor's Qualification Statement <u>&</u> AIA A305
_____	Certification Regarding Debarment
_____	Non-Collusion Affidavit
_____	Maryland Contractor's License
_____	References
_____	Sex Offender Certification
_____	Bid Form

SIGNATURE OF BIDDER

If submitted by an individual using a trade name:

List individual name, using the phrase, "An individual doing business under the firm name of _____."

_____/_____/_____
Signature of Owner for Individual Firm eMaryland Marketplace # Date

If submitted by a partnership:

List names of partners, using the phrase, "Co-Partners trading and doing business under the firm name of _____".

_____/_____/_____
Signature of Partner for Partnership Firm eMaryland Marketplace # Date

_____/_____/_____
Signature of Partner for Partnership Firm eMaryland Marketplace # Date

_____/_____/_____
Signature of Partner for Partnership Firm eMaryland Marketplace # Date

If submitted by a Corporation:

List the site of incorporation, using the phrase, "A Corporation organized under the laws of _____".

Signature of Authorized Personnel
if Firm is a Corporation

Date

Title of Authorized Personnel
if Firm is a Corporation

Telephone

eMaryland Marketplace #

Maryland Business License No.

Employer I.D. No.

**END OF SECTION
BID FORM**



AIA® Document A305® – 2020

Contractor's Qualification Statement

THE PARTIES SHOULD EXECUTE A SEPARATE CONFIDENTIALITY AGREEMENT IF THEY INTEND FOR ANY OF THE INFORMATION IN THIS A305-2020 TO BE HELD CONFIDENTIAL.

SUBMITTED BY:

(Organization name and address.)

SUBMITTED TO:

(Organization name and address.)

TYPE OF WORK TYPICALLY PERFORMED

(Indicate the type of work your organization typically performs, such as general contracting, construction manager as constructor services, HVAC contracting, electrical contracting, plumbing contracting, or other.)

THIS CONTRACTOR'S QUALIFICATION STATEMENT INCLUDES THE FOLLOWING:

(Check all that apply.)

- ☐ Exhibit A – General Information
- ☐ Exhibit B – Financial and Performance Information
- ☐ Exhibit C – Project-Specific Information
- ☐ Exhibit D – Past Project Experience
- ☐ Exhibit E – Past Project Experience (Continued)

CONTRACTOR CERTIFICATION

The undersigned certifies under oath that the information provided in this Contractor's Qualification Statement is true and sufficiently complete so as not to be misleading.

Organization's Authorized Representative
Signature

Date

Printed Name and Title

NOTARY

State of:

County of:

Signed and sworn to before me this day of

Notary Signature

My commission expires:

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Additions and Deletions Report for **AIA® Document A305® – 2020**

This Additions and Deletions Report, as defined on page 1 of the associated document, reproduces below all text the author has added to the standard form AIA document in order to complete it, as well as any text the author may have added to or deleted from the original AIA text. Added text is shown underlined. Deleted text is indicated with a horizontal line through the original AIA text.

Note: This Additions and Deletions Report is provided for information purposes only and is not incorporated into or constitute any part of the associated AIA document. This Additions and Deletions Report and its associated document were generated simultaneously by AIA software at 09:55:00 ET on 03/22/2024.

There are no differences.



AIA® Document A305® – 2020 Exhibit A

General Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by and dated the day of in the year
(In words, indicate day, month and year.)

§ A.1 ORGANIZATION

§ A.1.1 Name and Location

§ A.1.1.1 Identify the full legal name of your organization.

§ A.1.1.2 List all other names under which your organization currently does business and, for each name, identify jurisdictions in which it is registered to do business under that trade name.

§ A.1.1.3 List all prior names under which your organization has operated and, for each name, indicate the date range and jurisdiction in which it was used.

§ A.1.1.4 Identify the address of your organization's principal place of business and list all office locations out of which your organization conducts business. If your organization has multiple offices, you may attach an exhibit or refer to a website.

§ A.1.2 Legal Status

§ A.1.2.1 Identify the legal status under which your organization does business, such as sole proprietorship, partnership, corporation, limited liability corporation, joint venture, or other.

- .1 If your organization is a corporation, identify the state in which it is incorporated, the date of incorporation, and its four highest-ranking corporate officers and their titles, as applicable.
- .2 If your organization is a partnership, identify its partners and its date of organization.
- .3 If your organization is individually owned, identify its owner and date of organization.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

- .4** If the form of your organization is other than those listed above, describe it and identify its individual leaders:

§ A.1.2.2 Does your organization own, in whole or in part, any other construction-related businesses? If so, identify and describe those businesses and specify percentage of ownership.

§ A.1.3 Other Information

§ A.1.3.1 How many years has your organization been in business?

§ A.1.3.2 How many full-time employees work for your organization?

§ A.1.3.3 List your North American Industry Classification System (NAICS) codes and titles. Specify which is your primary NAICS code.

§ A.1.3.4 Indicate whether your organization is certified as a governmentally recognized special business class, such as a minority business enterprise, woman business enterprise, service disabled veteran owned small business, woman owned small business, small business in a HUBZone, or a small disadvantaged business in the 8(a) Business Development Program. For each, identify the certifying authority and indicate jurisdictions to which such certification applies.

§ A.2 EXPERIENCE

§ A.2.1 Complete Exhibit D to describe up to four projects, either completed or in progress, that are representative of your organization's experience and capabilities.

§ A.2.2 State your organization's total dollar value of work currently under contract.

§ A.2.3 Of the amount stated in Section A.2.2, state the dollar value of work that remains to be completed:

§ A.2.4 State your organization's average annual dollar value of construction work performed during the last five years.

§ A.3 CAPABILITIES

§ A.3.1 List the categories of work that your organization typically self-performs.

§ A.3.2 Identify qualities, accreditations, services, skills, or personnel that you believe differentiate your organization from others.

§ A.3.3 Does your organization provide design collaboration or pre-construction services? If so, describe those services.

§ A.3.4 Does your organization use building information modeling (BIM)? If so, describe how your organization uses BIM and identify BIM software that your organization regularly uses.

§ A.3.5 Does your organization use a project management information system? If so, identify that system.

§ A.4 REFERENCES

§ A.4.1 Identify three client references:

(Insert name, organization, and contact information)

§ A.4.2 Identify three architect references:

(Insert name, organization, and contact information)

§ A.4.3 Identify one bank reference:

(Insert name, organization, and contact information)

§ A.4.4 Identify three subcontractor or other trade references:

(Insert name, organization, and contact information)



AIA® Document A305® – 2020 Exhibit B

Financial and Performance Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by and dated the day of in the year
(In words, indicate day, month and year.)

§ B.1 FINANCIAL

§ B.1.1 Federal tax identification number:

§ B.1.2 Attach financial statements for the last three years prepared in accordance with Generally Accepted Accounting Principles, including your organization's latest balance sheet and income statement. Also, indicate the name and contact information of the firm that prepared each financial statement.

§ B.1.3 Has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, been the subject of any bankruptcy proceeding within the last ten years?

§ B.1.4 Identify your organization's preferred credit rating agency and identification information.

(Identify rating agency, such as Dun and Bradstreet or Equifax, and insert your organization's identification number or other method of searching your organization's credit rating with such agency.)

§ B.2 DISPUTES AND DISCIPLINARY ACTIONS

§ B.2.1 Are there any pending or outstanding judgments, arbitration proceedings, bond claims, or lawsuits against your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, or any of the individuals listed in Exhibit A, Section 1.2, in which the amount in dispute is more than \$75,000?

(If the answer is yes, provide an explanation.)

§ B.2.2 In the last five years has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management:

(If the answer to any of the questions below is yes, provide an explanation.)

.1 failed to complete work awarded to it?

.2 been terminated for any reason except for an owners' convenience?

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

.3 had any judgments, settlements, or awards pertaining to a construction project in which your organization was responsible for more than \$75,000?

.4 filed any lawsuits or requested arbitration regarding a construction project?

§ B.2.3 In the last five years, has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management; or any of the individuals listed in Exhibit A Section 1.2:

(If the answer to any of the questions below is yes, provide an explanation.)

.1 been convicted of, or indicted for, a business-related crime?

.2 had any business or professional license subjected to disciplinary action?

.3 been penalized or fined by a state or federal environmental agency?



AIA® Document A305® – 2020 Exhibit C

Project Specific Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by and dated the day of in the year
(In words, indicate day, month and year.)

PROJECT:

(Name and location or address.)

CONTRACTOR'S PROJECT OFFICE:

(Identify the office out of which the contractor proposes to perform the work for the Project.)

TYPE OF WORK SOUGHT

(Indicate the type of work you are seeking for this Project, such as general contracting, construction manager as constructor, design-build, HVAC subcontracting, electrical subcontracting, plumbing subcontracting, etc.)

CONFLICT OF INTEREST

Describe any conflict of interest your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, or any of the individuals listed in Exhibit A Section 1.2, may have regarding this Project.

§ C.1 PERFORMANCE OF THE WORK

§ C.1.1 When was the Contractor's Project Office established?

§ C.1.2 How many full-time field and office staff are respectively employed at the Contractor's Project Office?

§ C.1.3 List the business license and contractor license or registration numbers for the Contractor's Project Office that pertain to the Project.

§ C.1.4 Identify key personnel from your organization who will be meaningfully involved with work on this Project and indicate (1) their position on the Project team, (2) their office location, (3) their expertise and experience, and (4) projects similar to the Project on which they have worked.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

§ C.1.5 Identify portions of work that you intend to self-perform on this Project.

§ C.1.6 To the extent known, list the subcontractors you intend to use for major portions of work on the Project.

§ C.2 EXPERIENCE RELATED TO THE PROJECT

§ C.2.1 Complete Exhibit D to describe up to four projects performed by the Contractor's Project Office, either completed or in progress, that are relevant to this Project, such as projects in a similar geographic area or of similar project type. If you have already completed Exhibit D, but want to provide further examples of projects that are relevant to this Project, you may complete Exhibit E.

§ C.2.2 State the total dollar value of work currently under contract at the Contractor's Project Office:

§ C.2.3 Of the amount stated in Section C.2.2, state the dollar value of work that remains to be completed:

§ C.2.4 State the average annual dollar value of construction work performed by the Contractor's Project Office during the last five years.

§ C.2.5 List the total number of projects the Contractor's Project Office has completed in the last five years and state the dollar value of the largest contract the Contractor's Project Office has completed during that time.

§ C.3 SAFETY PROGRAM AND RECORD

§ C.3.1 Does the Contractor's Project Office have a written safety program?

§ C.3.2 List all safety-related citations and penalties the Contractor's Project Office has received in the last three years.

§ C.3.3 Attach the Contractor's Project Office's OSHA 300a Summary of Work-Related Injuries and Illnesses form for the last three years.

§ C.3.4 Attach a copy of your insurance agent's verification letter for your organization's current workers' compensation experience modification rate and rates for the last three years.

§ C.4 INSURANCE

§ C.4.1 Attach current certificates of insurance for your commercial general liability policy, umbrella insurance policy, and professional liability insurance policy, if any. Identify deductibles or self-insured retentions for your commercial general liability policy.

§ C.4.2 If requested, will your organization be able to provide property insurance for the Project written on a builder's risk "all-risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis?

§ C.4.3 Does your commercial general liability policy contain any exclusions or restrictions of coverage that are prohibited in AIA Document A101-2017, Exhibit A, Insurance A.3.2.2.2? If so, identify.

§ C.5 SURETY

§ C.5.1 If requested, will your organization be able to provide a performance and payment bond for this Project?

§ C.5.2 Surety company name:

§ C.5.3 Surety agent name and contact information:

§ C.5.4 Total bonding capacity:

§ C.5.5 Available bonding capacity as of the date of this qualification statement:



AIA® Document A305® – 2020 Exhibit D

Contractor's Past Project Experience

	1	2	3	4
PROJECT NAME				
PROJECT LOCATION				
PROJECT TYPE				
OWNER				
ARCHITECT				
CONTRACTOR'S PROJECT EXECUTIVE				
KEY PERSONNEL (include titles)				
PROJECT DETAILS	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work
PROJECT DELIVERY METHOD	<input type="checkbox"/> Design-bid-build <input type="checkbox"/> Design-build <input type="checkbox"/> CM constructor <input type="checkbox"/> CM advisor <input type="checkbox"/> Other:	<input type="checkbox"/> Design-bid-build <input type="checkbox"/> Design-build <input type="checkbox"/> CM constructor <input type="checkbox"/> CM advisor <input type="checkbox"/> Other:	<input type="checkbox"/> Design-bid-build <input type="checkbox"/> Design-build <input type="checkbox"/> CM constructor <input type="checkbox"/> CM advisor <input type="checkbox"/> Other:	<input type="checkbox"/> Design-bid-build <input type="checkbox"/> Design-build <input type="checkbox"/> CM constructor <input type="checkbox"/> CM advisor <input type="checkbox"/> Other:
SUSTAINABILITY CERTIFICATIONS				



AIA® Document A305® – 2020 Exhibit E

Contractor's Past Project Experience, Continued

	1	2	3	4
PROJECT NAME				
PROJECT LOCATION				
PROJECT TYPE				
OWNER				
ARCHITECT				
CONTRACTOR'S PROJECT EXECUTIVE				
KEY PERSONNEL (include titles)				
PROJECT DETAILS	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work
PROJECT DELIVERY METHOD	<input type="checkbox"/> Design-bid-build <input type="checkbox"/> Design-build <input type="checkbox"/> CM constructor <input type="checkbox"/> CM advisor <input type="checkbox"/> Other:	<input type="checkbox"/> Design-bid-build <input type="checkbox"/> Design-build <input type="checkbox"/> CM constructor <input type="checkbox"/> CM advisor <input type="checkbox"/> Other:	<input type="checkbox"/> Design-bid-build <input type="checkbox"/> Design-build <input type="checkbox"/> CM constructor <input type="checkbox"/> CM advisor <input type="checkbox"/> Other:	<input type="checkbox"/> Design-bid-build <input type="checkbox"/> Design-build <input type="checkbox"/> CM constructor <input type="checkbox"/> CM advisor <input type="checkbox"/> Other:
SUSTAINABILITY CERTIFICATIONS				

SECTION 00 43 39 – MINORITY BUSINESS ENTERPRISE

All prime contractors, including certified MBE firms, when submitting bids or proposals as a Prime Contractors, are required to attempt to achieve these goals from certified MBE firms. The bidder may use the Maryland Department of Transportation web site (www.mdot.state.md.us) to help locate Maryland Department of Transportation certified Minority Business Enterprises.

Note: The contract goals for Prime Bid Packages shall be:

Prime Bid Package	MBE Goal	Sub Goals
03A - CONCRETE	10%	None
04A - MASONRY	10%	None
05A - STEEL	5%	None
06A - GENERAL TRADES	20%	None
06B - MILLWORK & CASEWORK	20%	None
07A - ROOFING	15%	None
07B - METAL PANELS	10%	None
08B - GLASS & GLAZING	5%	None
09B - FLOORING	15%	None
11A - FOOD SERVICE	0%	None
11B - GYMNASIUM EQUIPMENT	0%	None
12A - FIXED SEATING	0%	None
21A - SPRINKLER	10%	None
23A - MECHANICAL / PLUMBING	20%	None
23B - GEOTHERMAL WELL	5%	None
26A - ELECTRICAL	20%	None
31A - SITEWORK	15%	None
32A - ASPHALT & SITE CONCRETE	15%	None
32B - LANDSCAPING	0%	None
Total	15%	None

The bidder or offeror is required to submit with its bid or proposal a completed **Attachment D-1A MBE Utilization and Fair Solicitation Affidavit & MBE Participation Schedule** as described in the solicitation documents. **Failure to submit these forms with the bid will result in the bid being determined nonresponsive.**

When the specific Prime Bid Package MBE contract goal cannot be met, the bidder or offeror must submit with its bid the **Attachment D-1A MBE Utilization and Fair Solicitation Affidavit & MBE Participation Schedule** (*indicating partial or no participation*). The apparent low bidder must submit additional minority business enterprise material and supporting data, which is specified in the bid documents within ten (10) working days after notification that the firm is the apparent low bidder. The failure of a bidder to complete and submit all of the required forms will result in a determination that the bid is not responsive. **The failure of an offeror to complete and submit all of the required forms will result in a determination that the bid is not susceptible to being selected for award.**

Attachments D-1 to D-5 – The following Minority Business Enterprise participation instructions, and forms are provided to assist Bidders/Offerors:

Attachment D-1A	MBE Utilization and Fair Solicitation Affidavit & MBE Participation Schedule (MUST SUBMIT WITH BID/PROPOSAL)
Attachment D-1B	Waiver Guidance
Attachment D-1C	Good Faith Efforts Documentation to Support Waiver Request
Attachment D-2	Outreach Efforts Compliance Statement
Attachment D-3A	MBE Subcontractor Project Participation Certification
Attachment D-3B	MBE Prime Project Participation Certification
Attachment D-4A	Prime Contractor Paid/Unpaid MBE Invoice Report
Attachment D-4B	MBE Prime Contractor Report
Attachment D-5	Subcontractor/Contractor Unpaid MBE Invoice Report

A Bidder/Offeree shall include with its Bid/Proposal a completed MBE Utilization and Fair Solicitation Affidavit (**Attachment D-1A**) whereby:

- (a) The Bidder/Offeree acknowledges the certified MBE participation goal and commits to make a good faith effort to achieve the goal and any applicable subgoals, or requests a waiver, and affirms that MBE subcontractors were treated fairly in the solicitation process; and
- (b) The Bidder/Offeree responds to the expected degree of MBE participation, as stated in the solicitation, by identifying the specific commitment of certified MBEs at the time of Bid/Proposal submission. The Bidder/Offeree shall specify the percentage of total contract value associated with each MBE subcontractor identified on the MBE participation schedule, including any work performed by the MBE prime (including a prime participating as a joint venture) to be counted towards meeting the MBE participation goals.
- (c) A Bidder/Offeree requesting a waiver should review Attachment D-1B (Waiver Guidance) and D-1C (Good Faith Efforts Documentation to Support Waiver Request) prior to submitting its request.

If a Bidder/Offeree fails to submit a completed Attachment D-1A with the Bid/Proposal as required, the Procurement Officer shall determine that the Bid is non-responsive, or the Proposal is not reasonably susceptible of being selected for award.

Bidders/Offerees are responsible for verifying that each of the MBE(s) (including any MBE primes and/or MBE primes participating in a joint venture), selected to meet the goal and any subgoals and subsequently identified in **Attachment D-1A** is appropriately certified and has the correct NAICS codes allowing it to perform the committed work.

Within ten (10) Working Days from notification that it is the recommended awardee or from the date of the actual award, whichever is earlier, the Bidder/Offeree must provide the following documentation to the Procurement Officer.

- (a) Outreach Efforts Compliance Statement (**Attachment D-2**).
- (b) MBE Prime/Subcontractor Project Participation Certification (**Attachment D-3A/3B**).
- (c) If the recommended awardee believes a waiver (in whole or in part) of the overall MBE goal or of any applicable subgoal is necessary, the recommended awardee must submit a fully documented waiver request that complies with COMAR 21.11.03.11.
- (d) Any other documentation required by the Procurement Officer to ascertain Bidder/Offeree responsibility in connection with the certified MBE subcontractor participation goal or any applicable subgoals.

If the recommended awardee fails to return each completed document within the required time, the Procurement Officer may determine that the recommended awardee is not responsible and, therefore, not eligible for Contract award. If the Contract has already been awarded, the award is voidable.

A current directory of certified MBEs is available through the Maryland State Department of Transportation (MDOT), Office of Minority Business Enterprise, 7201 Corporate Center Drive, Hanover, Maryland 21076. The phone numbers are (410) 865-1269, 1-800-544-6056, or TTY (410) 865-1342. The directory is also available on the MDOT website at <http://mbe.mdot.state.md.us/directory/>. The most current and up-to-date information on MBEs is available via this website. **Only MDOT-certified MBEs may be used to meet the MBE subcontracting goals.**

The Contractor, once awarded a Contract, will be responsible for submitting or requiring its subcontractor(s) to submit the following forms to provide the State with ongoing monitoring of MBE Participation:

- (a) **Attachment D-4A** (Prime Contractor Paid/Unpaid MBE Invoice Report).
- (b) **Attachment D-4B** (MBE Prime Contractor Report)
- (c) **Attachment D-5** (MBE Subcontractor/Contractor Unpaid MBE Invoice Report).

A Bidder/Offeror that requested a waiver of the goal or any of the applicable subgoals will be responsible for submitting the Good Faith Efforts Documentation to Support Waiver Request (Attachment D-1C) and all documentation within ten (10) Working Days from notification that it is the recommended awardee or from the date of the actual award, whichever is earlier, as required in **COMAR 21.11.03.11**.

All documents, including the MBE Utilization and Fair Solicitation Affidavit & MBE Participation Schedule (**Attachment D-1A**), completed and submitted by the Bidder/Offeror in connection with its certified MBE participation commitment shall be considered a part of the resulting Contract and are hereby expressly incorporated into the Contract by reference thereto. All of the referenced documents will be considered a part of the Bid/Proposal for order of precedence purposes (see Contract – **Attachment** ____, Section ____).

1. The Bidder/Offeror is advised that liquidated damages will apply in the event the Contractor fails to comply in good faith with the requirements of the MBE program and pertinent Contract provisions. (See Contract - **Attachment** ____, Section ____).

As set forth in COMAR 21.11.03.12-1(D) when a certified MBE firm participates on a contract as a prime contractor (including a joint-venture where the MBE firm is a partner), a procurement agency may count the distinct, clearly defined portion of the work of the contract that the certified MBE firm performs with its own work force towards fulfilling up to fifty-percent (50%) of the MBE participation goal (overall) and up to one hundred percent (100%) of not more than one of the MBE participation sub-goals, if any, established for the contract.

In order to receive credit for self-performance, an MBE prime must list its firm in Section 4A of the MBE Participation Schedule (Attachment D-1A) and include information regarding the work it will self-perform. For the remaining portion of the overall goal and the sub-goals, the MBE prime must also identify other certified MBE subcontractors (see Section 4B of the MBE Participation Schedule (Attachment D-1A)) used to meet those goals. If dually-certified, the MBE prime can be designated as only one of the MBE classifications but can self-perform up to 100% of the stated sub-goal.

As set forth in COMAR 21.11.03.12-1, once the Contract work begins, the work performed by a certified MBE firm, including an MBE prime, can only be counted towards the MBE participation goal(s) if the MBE firm is performing a commercially useful function on the Contract.

With respect to Contract administration, the Contractor shall:

- (a) Submit by the ____ of each month to the Agency's designated representative:
 - i. A Prime Contractor Paid/Unpaid MBE Invoice Report (Attachment D-4A) listing any unpaid invoices, over 45 days old, received from any certified MBE subcontractor, the amount of each invoice and the reason payment has not been made; and
 - ii. (If Applicable) An MBE Prime Contractor Report (Attachment D-4B) identifying an MBE prime's self-performing work to be counted towards the MBE participation goals.
- (b) Include in its agreements with its certified MBE subcontractors a requirement that those subcontractors submit by the ____ of each month to the Department's designated representative an MBE Subcontractor Paid/Unpaid Invoice Report (Attachment D-5) that identifies the Contract and lists all payments to the MBE subcontractor received from the Contractor in the preceding 30 days, as well as any outstanding invoices, and the amounts of those invoices.
- (c) Maintain such records as are necessary to confirm compliance with its MBE participation obligations. These records must indicate the identity of certified minority and non-minority subcontractors employed on the Contract, the type of work performed by each, and the actual dollar value of work performed. Subcontract agreements documenting the work performed by all MBE participants must be retained by the Contractor and furnished to the Procurement Officer on request.
- (d) Consent to provide such documentation as reasonably requested and to provide right-of-entry at reasonable times for purposes of the State's representatives verifying compliance with the MBE participation obligations. Contractor must retain all records concerning MBE participation and make them available for State inspection for three years after final completion of the Contract.
- (e) Upon completion of the Contract and before final payment and/or release of retainage, submit a final report in affidavit form and under penalty of perjury, of all payments made to, or withheld from MBE subcontractors. ^[1]_{SEP}

Attachment D – MBE Forms to follow: (27 pages)

Attachments D-1 to D-5 – forms are provided to assist Bidders/Offerors: effective date: February 5, 2021

Attachment D-1A	MBE Utilization and Fair Solicitation Affidavit & MBE Participation Schedule (MUST SUBMIT WITH BID/PROPOSAL)
Attachment D-1B	Waiver Guidance
Attachment D-1C	Good Faith Efforts Documentation to Support Waiver Request
Attachment D-2	Outreach Efforts Compliance Statement
Attachment D-3A	MBE Subcontractor Project Participation Certification
Attachment D-3B	MBE Prime Project Participation Certification
Attachment D-4A	Prime Contractor Paid/Unpaid MBE Invoice Report
Attachment D-4B	MBE Prime Contractor Report
Attachment D-5	Subcontractor/Contractor Unpaid MBE Invoice Report

Attachment D. Minority Business Enterprise (MBE) Forms
--

<p style="text-align: center;">D-1A MBE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT & MBE PARTICIPATION SCHEDULE</p>

PART 1 - INSTRUCTIONS

PLEASE READ BEFORE COMPLETING THIS DOCUMENT

This form includes Instructions and the MBE Utilization and Fair Solicitation Affidavit & MBE Participation Schedule which must be submitted with the bid/proposal. If the bidder/offeror fails to accurately complete and submit this Affidavit and Schedule with the bid or proposal, the Procurement Officer shall deem the bid non-responsive or shall determine that the proposal is not reasonably susceptible of being selected for award unless the inaccuracy is determined to be the result of a minor irregularity that is waived or cured in accordance with COMAR 21.06.02.04.

1. Contractor shall structure its procedures for the performance of the work required in this Contract to attempt to achieve the minority business enterprise (MBE) subcontractor participation goal stated in the Invitation for Bids or Request for Proposals. Contractor agrees to exercise good faith efforts to carry out the requirements set forth in these Instructions, as authorized by the Code of Maryland Regulations (COMAR) 21.11.03.
2. MBE Goals and Subgoals: Please review the solicitation for information regarding the Contract's MBE overall participation goals and subgoals. After satisfying the requirements for any established subgoals, the Contractor is encouraged to use a diverse group of subcontractors and suppliers from the various MBE classifications to meet the remainder of the overall MBE participation goal.
3. MBE means a minority business enterprise that is certified by the Maryland Department of Transportation ("MDOT"). Only MBEs certified by MDOT may be counted for purposes of achieving the MBE participation goals. In order to be counted for purposes of achieving the MBE participation goals, the MBE firm, including a MBE prime, must be MDOT-certified for the services, materials or supplies that it is committed to perform on the MBE Participation Schedule. A firm whose MBE certification application is pending may not be counted.
4. Please refer to the MDOT MBE Directory at <https://mbe.mdot.maryland.gov/directory/> to determine if a firm is certified with the appropriate North American Industry Classification System ("NAICS") Code and the product/services description (specific product that a firm is certified to provide or specific areas of work that a firm is certified to perform). For more general information about NAICS codes, please visit <https://www.census.gov/eos/www/naics/>. Only those specific products and/or services for which a firm is certified in the MDOT Directory can be used for purposes of achieving the MBE participation goals. **CAUTION:** If the firm's NAICS Code is in graduated status, such services/products may not be counted for purposes of achieving the MBE participation goals. A NAICS Code is in the graduated status if the term "Graduated" follows the Code in the MDOT MBE Directory.
5. **Guidelines Regarding MBE Prime Self-Performance.** Please note that when a certified MBE firm participates as a prime contractor on a Contract, a procurement agency may count the distinct, clearly defined portion of the work of the Contract that the certified MBE firm performs with its own workforce toward fulfilling up to, but no more than, fifty-percent (50%) of the overall

MBE participation goal, including up to one hundred percent (100%) of not more than one of the MBE participation subgoals, if any, established for the Contract.

- ✓ In order to receive credit for self-performance, an MBE prime must be certified in the appropriate NAICS code to do the work and must list its firm in the MBE Participation Schedule, including the certification category under which the MBE prime is self-performing and include information regarding the work it will self-perform.
 - ✓ For the remaining portion of the overall goal and the remaining subgoals, the MBE prime must also identify on the MBE Participation Schedule the other certified MBE subcontractors used to meet those goals or request a waiver.
 - ✓ These guidelines apply to the work performed by the MBE Prime that can be counted for purposes of meeting the MBE participation goals. These requirements do not affect the MBE Prime's ability to self-perform a greater portion of the work in excess of what is counted for purposes of meeting the MBE participation goals.
 - ✓ Please note that the requirements to meet the MBE participation overall goal and subgoals are distinct and separate. If the contract has subgoals, regardless of MBE Prime's ability to self-perform up to 50% of the overall goal (including up to 100% of any subgoal), the MBE Prime must either commit to use other MBEs for each of any remaining subgoals or request a waiver. As set forth in Attachment 1-B Waiver Guidance, the MBE Prime's ability to self-perform certain portions of the work of the Contract will not be deemed a substitute for the good faith efforts to meet any remaining subgoal or the balance of the overall goal.
 - ✓ In certain instances where the percentages allocated to MBE participation subgoals add up to more than 50% of the overall goal, the portion of self-performed work that an MBE Prime may count toward the overall goal may be limited to less than 50%. Please refer to the Governor's Office of Small Minority & Women Business Affairs' website for the MBE Prime Regulations Q&A for illustrative examples.
http://www.goMDsmallbiz.maryland.gov/Documents/MBE_Toolkit/MBEPrimeRegulation_QA.pdf
6. Subject to items 1 through 5 above, when a certified MBE performs as a participant in a joint venture, a procurement agency may count a portion of the total dollar value of the Contract equal to the distinct, clearly-defined portion of the work of the Contract that the certified MBE performs with its own forces toward fulfilling the Contract goal, and not more than one of the Contract subgoals, if any.
7. The work performed by a certified MBE firm, including an MBE prime, can only be counted towards the MBE participation goal(s) if the MBE firm is performing a commercially useful function on the Contract. Please refer to COMAR 21.11.03.12-1 for more information regarding these requirements.
8. **Materials and Supplies: New Guidelines Regarding MBE Participation.**
- ✓ Regular Dealer (generally identified as a wholesaler or supplier in the MDOT Directory): Up to 60% of the costs of materials and supplies provided by a certified MBE may be counted towards the MBE participation goal(s) if such MBE is a Regular Dealer of such materials and supplies. Regular Dealer is defined as a firm that owns, operates, or maintains a store, a warehouse, or any other establishment in which the materials, supplies, articles, or equipment are of the general character described by the specifications required under the contract and are bought, kept in stock, or regularly sold or leased to the

public in the usual course of business; and does not include a packager, a broker, a manufacturer's representative, or any other person that arranges or expedites transactions.

Example for illustrative purposes of applying the 60% rule:

Overall contract value: \$2,000,000

Total value of supplies: \$100,000

Calculate Percentage of Supplies to overall contract value: \$100,000 divided by \$2,000,000 = 5%

Apply 60% Rule - Total percentage of Supplies/Products 5% x 60% = 3%

3% would be counted towards achieving the MBE Participation Goal and Subgoal, if any, for the MBE supplier in this example.

- ✓ **Manufacturer:** A certified MBE firm's participation may be counted in full if the MBE is certified in the appropriate NAICS code(s) to provide products and services as a manufacturer.
- ✓ **Broker:** With respect to materials or supplies purchased from a certified MBE that is neither a manufacturer nor a regular dealer, a unit may apply the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, fees, or transportation charges for the delivery of materials and supplies required on a procurement toward the MBE contract goals, provided a unit determines the fees to be reasonable and not excessive as compared with fees customarily allowed for similar services. A unit may not apply any portion of the costs of the materials and supplies toward MBE goals.
- ✓ **Furnish and Install and other Services:** The participation of a certified MBE supplier, wholesaler, and/or regular dealer certified in the proper NAICS code(s) to furnish and install materials necessary for successful contract completion may be counted in full. Includes the participation of other MBE service providers in the proper NAICS code(s) may be counted in full.

9. **Dually certified firms.** An MBE that is certified in more than one subgroup category may only be counted toward goal fulfillment of ONE of those categories with regard to a particular contract.

Example: A woman-owned Hispanic American (dually certified) firm may be used to fulfill the women-owned OR Hispanic American subgoal, but not both on the same contract.

10. **CAUTION:** The percentage of MBE participation, computed using the percentage amounts determined for all of the MBE firms listed in PART 3, MUST meet or exceed the MBE participation goal and subgoals (if applicable) as set forth in PART 2- for this solicitation. If a bidder/offeror is unable to meet the MBE participation goal or any subgoals (if applicable), then the bidder/offeror must request a waiver in PART 2 or the bid will be deemed not responsive, or the proposal not reasonably susceptible of being selected for award. You may wish to use the attached Goal/Subgoal Worksheet to assist in calculating the percentages and confirming that your commitment meets or exceeds the applicable MBE participation goal and subgoals (if any).

11. If you have any questions as to whether a firm is certified to perform the specific services or provide specific products, please contact MDOT's Office of Minority Business Enterprise at 1-

800-544-6056 or via email to mbc@mdot.state.md.us sufficiently prior to the submission due date.

Subgoals (if applicable)

Total African American MBE Participation:	_____ %
Total Asian American MBE Participation:	_____ %
Total Hispanic American MBE Participation:	_____ %
Total Women-Owned MBE Participation:	_____ %

Overall Goal

Total MBE Participation (include all categories):	_____ %
---	---------

PART 2 - MBE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT & MBE PARTICIPATION SCHEDULE

This MBE Utilization and Fair Solicitation Affidavit and MBE Participation Schedule must be completed in its entirety and included with the bid/proposal. If the bidder/offeror fails to accurately complete and submit this Affidavit and Schedule with the bid or proposal as required, the Procurement Officer shall deem the bid non-responsive or shall determine that the proposal is not reasonably susceptible of being selected for award.

In connection with the bid/proposal submitted in response to Solicitation No. _____, I affirm the following:

1. **MBE Participation (PLEASE CHECK ONLY ONE)**

☐ I acknowledge and intend to meet IN FULL both the overall certified Minority Business Enterprise (MBE) participation goal of _____ percent and all of the following subgoals:

- _____ percent for African American-owned MBE firms
- _____ percent for Hispanic American-owned MBE firms
- _____ percent for Asian American-owned MBE firms
- _____ percent for Women-owned MBE firms

Therefore, I am not seeking a waiver pursuant to COMAR 21.11.03.11. I acknowledge that by checking the above box and agreeing to meet the stated goal and subgoal(s), if any, I **must** complete PART 3 - MBE Participation Schedule and Part 4 Signature Page in order to be considered for award.

OR

☐ After making good faith outreach efforts prior to making this submission, I conclude that I am unable to achieve the MBE participation goal and/or subgoals. I hereby request a waiver, in whole or in part, of the overall goal and/or subgoals I acknowledge that by checking this box and requesting a partial waiver of the stated goal and/or one or more of the stated subgoal(s) if any, I **must** complete Part 3, the MBE Participation Schedule and Part 4 Signature Page for the portion of the goal and/or subgoal(s) if any, for which I am not seeking a waiver, in order to be considered for award. I acknowledge that by checking this box and requesting a full waiver of the stated goal and the stated subgoal(s) if any, I **must** complete Part 4 Signature Page in order to be considered for award.

Additional MBE Documentation

I understand that if I am notified that I am the apparent awardee or as requested by the Procurement Officer, I must submit the following documentation within 10 working days of receiving notice of the potential award or from the date of conditional award (per COMAR 21.11.03.10), whichever is earlier:

- (a) Good Faith Efforts Documentation to Support Waiver Request (Attachment D-1C)
- (b) Outreach Efforts Compliance Statement (Attachment D-2);
- (c) MBE Subcontractor/MBE Prime Project Participation Statement (Attachments D-3A and 3B);
- (d) Any other documentation, including additional waiver documentation if applicable, required by the Procurement Officer to ascertain bidder or offeror responsibility in connection with the certified MBE participation goal and subgoals, if any.

I understand that if I fail to return each completed document within the required time, the Procurement Officer may determine that I am not responsible and therefore not eligible for contract award. If the contract has already been awarded, the award is voidable.

Information Provided to MBE firms

In the solicitation of subcontract quotations or offers, MBE firms were provided not less than the same information and amount of time to respond as were non-MBE firms.

PART 3 - MBE PARTICIPATION SCHEDULE

SET FORTH BELOW ARE THE (i) CERTIFIED MBEs I INTEND TO USE, (ii) THE PERCENTAGE OF THE TOTAL CONTRACT VALUE ALLOCATED TO EACH MBE FOR THIS PROJECT AND, (iii) THE ITEMS OF WORK EACH MBE WILL PROVIDE UNDER THE CONTRACT. I HAVE CONFIRMED WITH THE MDOT DATABASE THAT THE MBE FIRMS IDENTIFIED BELOW (INCLUDING ANY SELF-PERFORMING MBE PRIME FIRMS) ARE PERFORMING WORK ACTIVITIES FOR WHICH THEY ARE MDOT-CERTIFIED.

Prime Contractor	Project Description	Project/Contract Number

LIST INFORMATION FOR EACH CERTIFIED MBE FIRM YOU AGREE TO USE TO ACHIEVE THE MBE PARTICIPATION GOAL AND SUBGOALS, IF ANY. **MBE PRIMES:** PLEASE COMPLETE BOTH SECTIONS A AND B BELOW.

SECTION A: For MBE Prime Contractors ONLY (including MBE Primes in a Joint Venture)

<p>MBE Prime Firm Name: _____</p> <p>MBE Certification Number: _____</p> <p>(If dually certified, check only one box.)</p> <p> <input type="checkbox"/> African American-Owned <input type="checkbox"/> Hispanic American- Owned <input type="checkbox"/> Asian American-Owned <input type="checkbox"/> Women-Owned <input type="checkbox"/> Other MBE Classification </p> <p>NAICS code: _____</p>	<p>Percentage of total Contract Value to be performed with own forces and counted towards the MBE overall participation goal (up to 50% of the overall goal): _____% Please refer to Item #8 in Part 1- Instructions of this document for new MBE participation guidelines regarding materials and supplies.</p> <p>Percentage of total Contract Value to be performed with own forces and counted towards the subgoal, if any, for my MBE classification (up to 100% of not more than one subgoal): _____%</p> <p> <input type="checkbox"/> Supplier, wholesaler and/or regular dealer (count 60%) <input type="checkbox"/> Manufacturer (count 100%) <input type="checkbox"/> Broker (count reasonable fee/commission only) <input type="checkbox"/> Furnish and Install and other Services (count 100%) </p> <p>Complete the applicable prompt (select only one) from prompts A-C below that applies to the type of work your firm is self-performing to calculate amount to be counted towards achieving the MBE Participation Goal and Subgoal, if any.</p> <p>A. Percentage amount of subcontract where the MBE Prime firm is being used for manufacturer, furnish and install, and/or services (excluding products / services from suppliers, wholesalers, regular dealers and brokers) ____%</p> <p>B. Percentage amount for items of work where the MBE Prime firm is being used as supplier, wholesaler, and/or regular dealer (60% Rule). Total percentage of Supplies/Products ____% x 60% = ____%</p> <p>C. Percentage amount of fee where the MBE Prime firm is being used as broker (count reasonable fee/commission only) ____%</p> <p>Description of the work to be performed with MBE prime's own forces: _____ _____</p>
---	---

SECTION B: For all Contractors (including MBE Primes and MBE Primes in a Joint Venture)

<p>MBE Firm Name: _____</p> <p>MBE Certification Number: _____</p> <p>(If dually certified, check only one box.)</p> <p><input type="checkbox"/> African American-Owned</p> <p><input type="checkbox"/> Hispanic American- Owned</p> <p><input type="checkbox"/> Asian American-Owned</p> <p><input type="checkbox"/> Women-Owned</p> <p><input type="checkbox"/> Other MBE Classification</p> <p>NAICS code: _____</p>	<p>Please refer to Item #8 in Part 1- Instructions of this document for new MBE participation guidelines regarding materials and supplies.</p> <p><input type="checkbox"/> Supplier, wholesaler and/or regular dealer (count 60%)</p> <p><input type="checkbox"/> Manufacturer (count 100%)</p> <p><input type="checkbox"/> Broker (count reasonable fee/commission only)</p> <p><input type="checkbox"/> Furnish and Install and other Services (count 100%)</p> <p>Complete the applicable prompt (select only one) from prompts A-C below that applies to the type of work that the MBE firm named to the left will be performing to calculate the amount to be counted towards achieving the MBE Participation Goal and Subgoal, if any.</p> <p>A. Percentage of total contract amount where the MBE firm is being used for manufacturer, furnish and install, and/or services (excluding products/services from suppliers, wholesalers, regular dealers and brokers) ____ %</p> <p>B. Percentage of total contract amount for items of work where the MBE firm is being used as supplier, wholesaler, and/or regular dealer (60% Rule)). Total percentage of Supplies/Products ____ % X 60% = ____ %</p> <p>C. Percentage amount of fee where the MBE firm is being used as broker (count reasonable fee/commission only) ____ %</p> <p>Description of the work to be performed: _____ _____</p>
<p>MBE Firm Name: _____</p> <p>MBE Certification Number: _____</p> <p>(If dually certified, check only one box.)</p> <p><input type="checkbox"/> African American-Owned</p> <p><input type="checkbox"/> Hispanic American- Owned</p> <p><input type="checkbox"/> Asian American-Owned</p> <p><input type="checkbox"/> Women-Owned</p> <p><input type="checkbox"/> Other MBE Classification</p> <p>NAICS code: _____</p>	<p>Please refer to Item #8 in Part 1- Instructions of this document for new MBE participation guidelines regarding materials and supplies.</p> <p><input type="checkbox"/> Supplier, wholesaler and/or regular dealer (count 60%)</p> <p><input type="checkbox"/> Manufacturer (count 100%)</p> <p><input type="checkbox"/> Broker (count reasonable fee/commission only)</p> <p><input type="checkbox"/> Furnish and Install and other Services (count 100%)</p> <p>Complete the applicable prompt (select only one) from prompts A-C below that applies to the type of work that the MBE Firm named to the left will be performing to calculate the amount to be counted towards achieving the MBE Participation Goal and Subgoal, if any.</p> <p>A. Percentage of total contract amount where the MBE firm is being used for manufacturer, furnish and install, and/or services (excluding products/services from suppliers, wholesalers, regular dealers and brokers) ____ %</p> <p>B. Percentage of total contract amount for items of work where the MBE firm is being used as supplier, wholesaler, and/or regular dealer (60% Rule)). Total percentage of Supplies/Products ____ % X 60% = ____ %</p> <p>C. Percentage amount of fee where the MBE firm is being used as broker (count reasonable fee/commission only) ____ %</p> <p>Description of the work to be performed: _____ _____</p>

<p>MBE Firm Name: _____</p> <p>MBE Certification Number: _____</p> <p>(If dually certified, check only one box.)</p> <p><input type="checkbox"/> African American-Owned</p> <p><input type="checkbox"/> Hispanic American- Owned</p> <p><input type="checkbox"/> Asian American-Owned</p> <p><input type="checkbox"/> Women-Owned</p> <p><input type="checkbox"/> Other MBE Classification</p> <p>NAICS code: _____</p>	<p>Please refer to Item #8 in Part 1- Instructions of this document for new MBE participation guidelines regarding materials and supplies.</p> <p><input type="checkbox"/> Supplier, wholesaler and/or regular dealer (count 60%)</p> <p><input type="checkbox"/> Manufacturer (count 100%)</p> <p><input type="checkbox"/> Broker (count reasonable fee/commission only)</p> <p><input type="checkbox"/> Furnish and Install and other Services (count 100%)</p> <p>Complete the applicable prompt (select only one) from prompts A-C below that applies to the type of work that for the MBE firm named to the left will be performing to calculate the amount to be counted towards achieving the MBE Participation Goal and Subgoal, if any.</p> <p>A. Percentage of total contract amount where the MBE firm is being used for manufacturer, furnish and install, and/or services (excluding products/services from suppliers, wholesalers, regular dealers and brokers) ____ %</p> <p>B. Percentage of the total contract amount for items of work where the MBE firm is being used as supplier, wholesaler, and/or regular dealer (60% Rule). Total percentage of Supplies/Products ____ % X 60% = ____ %</p> <p>C. Percentage amount of fee where the MBE firm is being used as broker (count reasonable fee/commission only) ____ %</p> <p>Description of the work to be performed: _____ _____</p>
<p>MBE Firm Name: _____</p> <p>MBE Certification Number: _____</p> <p>(If dually certified, check only one box.)</p> <p><input type="checkbox"/> African American-Owned</p> <p><input type="checkbox"/> Hispanic American- Owned</p> <p><input type="checkbox"/> Asian American-Owned</p> <p><input type="checkbox"/> Women-Owned</p> <p><input type="checkbox"/> Other MBE Classification</p> <p>NAICS code: _____</p>	<p>Please refer to Item #8 in Part 1- Instructions of this document for new MBE participation guidelines regarding materials and supplies.</p> <p><input type="checkbox"/> Supplier, wholesaler and/or regular dealer (count 60%)</p> <p><input type="checkbox"/> Manufacturer (count 100%)</p> <p><input type="checkbox"/> Broker (count reasonable fee/commission only)</p> <p><input type="checkbox"/> Furnish and Install and other Services (count 100%)</p> <p>Complete the applicable prompt (select only one) from prompts A-C below that applies to the type of work that the MBE firm named to the left will be performing to calculate the amount to be counted towards achieving the MBE Participation Goal and Subgoal, if any.</p> <p>A. Percentage of total contract amount where the MBE firm is being used for manufacturer, furnish and install, and/or services (excluding products/services from suppliers, wholesalers, regular dealers and brokers) ____ %</p> <p>B. Percentage of total contract amount for items of work where the MBE firm is being used as supplier, wholesaler, and/or regular dealer (60% Rule). Total percentage of Supplies/Products ____ % X 60% = ____ %</p> <p>C. Percentage amount of fee where the MBE firm is being used as broker ____ %</p> <p>Description of the work to be performed: _____ _____</p>

CONTINUE ON SEPARATE PAGE IF NEEDED

PART 4 – SIGNATURE PAGE

**To complete Affidavit committing to MBE(s) or requesting waiver,
Bidder/Offeror must sign below:**

I solemnly affirm under the penalties of perjury that: (i) I have reviewed the instructions for the MBE Utilization & Fair Solicitation Affidavit and MBE Schedule, and (ii) the information contained in the MBE Utilization & Fair Solicitation Affidavit and MBE Schedule is true to the best of my knowledge, information and belief.

Bidder/Offeror Name
(PLEASE PRINT OR TYPE)

Signature of Authorized Representative

Address

Printed Name and Title

City, State and Zip Code

Date

SUBMIT THIS AFFIDAVIT WITH BID/PROPOSAL

D-1B WAIVER GUIDANCE

GUIDANCE FOR DOCUMENTING GOOD FAITH EFFORTS TO MEET MBE PARTICIPATION GOALS

In order to show that it has made good faith efforts to meet the Minority Business Enterprise (MBE) participation goal (including any MBE subgoals) on a contract, the Offeror must either (1) meet the MBE Goal(s) and document its commitments for participation of MBE Firms, or (2) when it does not meet the MBE Goal(s), document its Good Faith Efforts to meet the goal(s).

I. Definitions

MBE Goal(s) – “MBE Goal(s)” refers to the MBE participation goal and MBE participation subgoal(s).

Good Faith Efforts - The “Good Faith Efforts” requirement means that when requesting a waiver, the Offeror must demonstrate that it took all necessary and reasonable steps to achieve the MBE Goal(s), which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient MBE participation, even if those steps were not fully successful. Whether the Offeror that requests a waiver made adequate good faith efforts will be determined by considering the quality, quantity, and intensity of the different kinds of efforts that the Offeror has made. The efforts employed by the Offeror should be those that one could reasonably expect the Offeror to take if the Offeror were actively and aggressively trying to obtain MBE participation sufficient to meet the MBE contract goal and subgoals. Mere *pro forma* efforts are not good faith efforts to meet the MBE contract requirements. The determination concerning the sufficiency of the Offeror's good faith efforts is a judgment call; meeting quantitative formulas is not required.

Identified Firms – “Identified Firms” means a list of the MBEs identified by the procuring agency during the goal setting process and listed in the procurement as available to perform the Identified Items of Work. It also may include additional MBEs identified by the Offeror as available to perform the Identified Items of Work, such as MBEs certified or granted an expansion of services after the procurement was issued. If the procurement does not include a list of Identified Firms, this term refers to all of the MBE Firms (if State-funded) the Offeror identified as available to perform the Identified Items of Work and should include all appropriately certified firms that are reasonably identifiable.

Identified Items of Work – “Identified Items of Work” means the Proposal items identified by the procuring agency during the goal setting process and listed in the procurement as possible items of work for performance by MBE Firms. It also may include additional portions of items of work the Offeror identified for performance by MBE Firms to increase the likelihood that the MBE Goal(s) will be achieved. If the procurement does not include a list of Identified Items of Work, this term refers to all of the items of work the Offeror identified as possible items of work for performance by MBE Firms and should include all reasonably identifiable work opportunities.

MBE Firms – “MBE Firms” refers to firms certified by the Maryland Department of Transportation (“MDOT”) under COMAR 21.11.03. Only MDOT-certified MBE Firms can participate in the State's MBE Program.

II. Types of Actions Agency will Consider

The Offeror is responsible for making relevant portions of the work available to MBE subcontractors and suppliers and select those portions of the work or material needs consistent with the available MBE subcontractors and suppliers, so as to facilitate MBE participation. The following is a list of types of actions the procuring agency will consider as part of the Offeror's Good Faith Efforts when the Offeror fails to meet the MBE Goal(s). This list is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

A. Identify Proposal Items as Work for MBE Firms

1. Identified Items of Work in Procurements

- (a) Certain procurements will include a list of Proposal items identified during the goal setting process as possible work for performance by MBE Firms. If the procurement provides a list of Identified Items of Work, the Offeror shall make all reasonable efforts to solicit quotes from MBE Firms to perform that work.
- (b) Offerors may, and are encouraged to, select additional items of work to be performed by MBE Firms to increase the likelihood that the MBE Goal(s) will be achieved.

2. Identified Items of Work by Offerors

- (a) When the procurement does not include a list of Identified Items of Work or for additional Identified Items of Work, Offerors should reasonably identify sufficient items of work to be performed by MBE Firms.

- (b) Where appropriate, Offerors should break out contract work items into economically feasible units to facilitate MBE participation, rather than perform these work items with their own forces. The ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the Offeror of the responsibility to make Good Faith Efforts.

B. Identify MBE Firms to Solicit

1. MBE Firms Identified in Procurements

- (a) Certain procurements will include a list of the MBE Firms identified during the goal setting process as available to perform the items of work. If the procurement provides a list of Identified MBE Firms, the Offeror shall make all reasonable efforts to solicit those MBE firms.
- (b) Offerors may, and are encouraged to, search the MBE Directory to identify additional MBEs who may be available to perform the items of work, such as MBEs certified or granted an expansion of services after the solicitation was issued.

2. MBE Firms Identified by Offerors

- (a) When the procurement does not include a list of Identified MBE Firms, Offerors should reasonably identify the MBE Firms that are available to perform the Identified Items of Work.
- (b) Any MBE Firms identified as available by the Offeror should be certified to perform the Identified Items of Work.

C. Solicit MBEs

1. Solicit all Identified Firms for all Identified Items of Work by providing written notice. The Offeror should:

- (a) provide the written solicitation at least 10 days prior to Proposal opening to allow sufficient time for the MBE Firms to respond;
- (b) send the written solicitation by first-class mail, facsimile, or e-mail using contact information in the MBE Directory, unless the Offeror has a valid basis for using different contact information; and
- (c) provide adequate information about the plans, specifications, anticipated time schedule for portions of the work to be performed by the MBE, and other requirements of the contract to assist MBE Firms in responding. (This information may be provided by including hard copies in the written solicitation or by electronic means as described in C.3 below.)

2. “All” Identified Firms includes the MBEs listed in the procurement and any MBE Firms you identify as potentially available to perform the Identified Items of Work, but it does not include MBE Firms who are no longer certified to perform the work as of the date the Offeror provides written solicitations.

3. “Electronic Means” includes, for example, information provided *via* a website or file transfer protocol (FTP) site containing the plans, specifications, and other requirements of the contract. If an interested MBE cannot access the information provided by electronic means, the Offeror must make the information available in a manner that is accessible to the interested MBE.

4. Follow up on initial written solicitations by contacting MBEs to determine if they are interested. The follow up contact may be made:

- (a) by telephone using the contact information in the MBE Directory, unless the Offeror has a valid basis for using different contact information; or
- (b) in writing *via* a method that differs from the method used for the initial written solicitation.

5. In addition to the written solicitation set forth in C.1 and the follow up required in C.4, use all other reasonable and available means to solicit the interest of MBE Firms certified to perform the work of the contract. Examples of other means include:

- (a) attending any pre-Proposal meetings at which MBE Firms could be informed of contracting and subcontracting opportunities; and
- (b) if recommended by the procurement, advertising with or effectively using the services of at least two minority focused entities or media, including trade associations, minority/women community organizations, minority/women contractors' groups, and local, state, and federal minority/women business assistance offices listed on the MDOT Office of Minority Business Enterprise website.

D. Negotiate with Interested MBE Firms

Offerors must negotiate in good faith with interested MBE Firms.

1. Evidence of negotiation includes, without limitation, the following:
 - (a) the names, addresses, and telephone numbers of MBE Firms that were considered;
 - (b) a description of the information provided regarding the plans and specifications for the work selected for subcontracting and the means used to provide that information; and
 - (c) evidence as to why additional agreements could not be reached for MBE Firms to perform the work.
2. The Offeror using good business judgment would consider a number of factors in negotiating with subcontractors, including MBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration.
3. The fact that there may be some additional costs involved in finding and using MBE Firms is not in itself sufficient reason for the Offeror's failure to meet the contract MBE goal(s), as long as such costs are reasonable. Factors to take into consideration when determining whether an MBE Firm's quote is excessive or unreasonable include, without limitation, the following:
 - (a) dollar difference between the MBE subcontractor's quote and the average of the other subcontractors' quotes received by the Offeror;
 - (b) percentage difference between the MBE subcontractor's quote and the average of the other subcontractors' quotes received by the Offeror;
 - (c) percentage that the MBE subcontractor's quote represents of the overall contract amount;
 - (d) number of MBE firms that the Offeror solicited for that portion of the work;
 - (e) whether the work described in the MBE and Non-MBE subcontractor quotes (or portions thereof) submitted for review is the same or comparable; and
 - (f) number of quotes received by the Offeror for that portion of the work.
4. The above factors are not intended to be mandatory, exclusive, or exhaustive, and other evidence of an excessive or unreasonable price may be relevant.
5. The Offeror may not use its price for self-performing work as a basis for rejecting an MBE Firm's quote as excessive or unreasonable.
6. The "average of the other subcontractors' quotes received" by the Offeror refers to the average of the quotes received from all subcontractors. Offeror should attempt to receive quotes from at least three subcontractors, including one quote from an MBE and one quote from a Non-MBE.
7. The Offeror shall not reject an MBE Firm as unqualified without sound reasons based on a thorough investigation of the firm's capabilities. For each certified MBE that is rejected as unqualified or that placed a subcontract quotation or offer that the Offeror concludes is not acceptable, the Offeror must provide a written detailed statement listing the reasons for this conclusion. The Offeror also must document the steps taken to verify the capabilities of the MBE and Non-MBE Firms quoting similar work.
 - (a) The factors to take into consideration when assessing the capabilities of an MBE Firm, include, but are not limited to the following: financial capability, physical capacity to perform, available personnel and equipment, existing workload, experience performing the type of work, conduct and performance in previous contracts, and ability to meet reasonable contract requirements.
 - (b) The MBE Firm's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of Proposals in the efforts to meet the project goal.

E. Assisting Interested MBE Firms

When appropriate under the circumstances, the decision-maker will consider whether the Offeror made reasonable efforts to assist interested MBE Firms in obtaining: effective

1. The bonding, lines of credit, or insurance required by the procuring agency or the Offeror; and
2. Necessary equipment, supplies, materials, or related assistance or services.

III. Other Considerations

In making a determination of Good Faith Efforts the decision-maker may consider engineering estimates, catalogue prices, general market availability and availability of certified MBE Firms in the area in which the work is to be performed, other Proposals or offers and subcontract Proposals or offers substantiating significant variances between certified MBE and Non-MBE costs of participation, and their impact on the overall cost of the contract to the State and any other relevant factors.

The decision-maker may take into account whether the Offeror decided to self-perform subcontract work with its own forces, especially where the self-performed work is Identified Items of Work in the procurement. The decision-maker also may take into account the performance of other Offerors in meeting the contract. For example, when the apparent successful Offeror fails to meet the contract goal, but others meet it, this reasonably raises the question of whether, with additional reasonable efforts, the apparent successful Offeror could have met the goal. If the apparent successful Offeror fails to meet the goal, but meets or exceeds the average MBE participation obtained by other Offerors, this, when viewed in conjunction with other factors, could be evidence of the apparent successful Offeror having made Good Faith Efforts.

IV. Documenting Good Faith Efforts

At a minimum, the Offeror seeking a waiver of the MBE Goal(s) or a portion thereof must provide written documentation of its Good Faith Efforts, in accordance with COMAR 21.11.03.11, within 10 Business Days after receiving notice that it is the apparent awardee. The written documentation shall include the following:

A. Items of Work (Complete Good Faith Efforts Documentation Attachment D-1C, Part 1)

A detailed statement of the efforts made to select portions of the work proposed to be performed by certified MBE Firms in order to increase the likelihood of achieving the stated MBE Goal(s).

B. Outreach/Solicitation/Negotiation

1. The record of the Offeror's compliance with the outreach efforts prescribed by COMAR 21.11.03.09C(2)(a). **(Complete Outreach Efforts Compliance Statement - D-2).**
2. A detailed statement of the efforts made to contact and negotiate with MBE Firms including:
 - (a) the names, addresses, and telephone numbers of the MBE Firms who were contacted, with the dates and manner of contacts (letter, fax, e-mail, telephone, etc.) **(Complete Good Faith Efforts Attachment D-1C- Part 2, and submit letters, fax cover sheets, e-mails, etc. documenting solicitations);** and
 - (b) a description of the information provided to MBE Firms regarding the plans, specifications, and anticipated time schedule for portions of the work to be performed and the means used to provide that information.

C. Rejected MBE Firms (Complete Good Faith Efforts Attachment D-1C, Part 3)

1. For each MBE Firm that the Offeror concludes is not acceptable or qualified, a detailed statement of the reasons for the Offeror's conclusion, including the steps taken to verify the capabilities of the MBE and Non-MBE Firms quoting similar work.
2. For each certified MBE Firm that the Offeror concludes has provided an excessive or unreasonable price, a detailed statement of the reasons for the Offeror's conclusion, including the quotes received from all MBE and Non-MBE firms proposing on the same or comparable work. **(Include copies of all quotes received.)**
3. A list of MBE Firms contacted but found to be unavailable. This list should be accompanied by an MBE Unavailability Certificate (see **D-1B - Exhibit A** to this Part 1) signed by the MBE contractor or a statement from the Offeror that the MBE contractor refused to sign the MBE Unavailability Certificate.

D. Other Documentation

1. Submit any other documentation requested by the Procurement Officer to ascertain the Offeror's Good Faith Efforts.
2. Submit any other documentation the Offeror believes will help the Procurement Officer ascertain its Good Faith Efforts.

D-1B - Exhibit A
MBE Subcontractor Unavailability Certificate

1. It is hereby certified that the firm of _____
(Name of Minority firm)
located at _____
(Number) (Street)

(City) (State) (Zip)

was offered an opportunity to bid on Solicitation No. _____
in _____ County by _____
(Name of Prime Contractor's Firm)

2. _____ (Minority Firm), is either unavailable for the work/service or unable to prepare a Proposal for this project for the following reason(s):

(Signature of Minority Firm's MBE Representative) (Title) (Date)

(MDOT Certification #) (Telephone #)

3. To be completed by the prime contractor if Section 2 of this form is not completed by the minority firm.

To the best of my knowledge and belief, said Certified Minority Business Enterprise is either unavailable for the work/service for this project, is unable to prepare a Proposal, or did not respond to a request for a price Proposal and has not completed the above portion of this submittal.

(Signature of Prime Contractor) (Title) (Date)

D-1C
GOOD FAITH EFFORTS DOCUMENTATION TO SUPPORT WAIVER REQUEST

PAGE __ OF __

Prime Contractor:	Project Description:	PROJECT/CONTRACT
Offeror Company Name, Street Address, Phone		Solicitation #:

Parts 1, 2, and 3 must be included with this certificate along with all documents supporting your waiver request.

I affirm that I have reviewed **Attachment D-1B**, Waiver Guidance. I further affirm under penalties of perjury that the contents of Parts 1, 2, and 3 of this **Attachment D-1C** Good Faith Efforts Documentation Form are true to the best of my knowledge, information, and belief.

Company:

Company Name (please print or type)

By:

Signature of Authorized Representative

Printed Name:

Printed Name

Title:

Title

Date:

Date

Address:

Company Address

GOOD FAITH EFFORTS DOCUMENTATION TO SUPPORT WAIVER REQUEST
PART 1 – IDENTIFIED ITEMS OF WORK OFFEROR MADE AVAILABLE TO MBE FIRMS

PAGE __ OF __

Prime Contractor:	Project Description:	PROJECT/CONTRACT
Offeror Company Name, Street Address, Phone		Solicitation #:

Identify those items of work that the Offeror made available to MBE Firms. This includes, where appropriate, those items the Offeror identified and determined to subdivide into economically feasible units to facilitate the MBE participation. For each item listed, show the anticipated percentage of the total contract amount. It is the Offeror's responsibility to demonstrate that sufficient work to meet the goal was made available to MBE Firms, and the total percentage of the items of work identified for MBE participation equals or exceeds the percentage MBE goal set for the procurement. Note: If the procurement includes a list of Proposal items identified during the goal setting process as possible items of work for performance by MBE Firms, the Offeror should make all of those items of work available to MBE Firms or explain why that item was not made available. If the Offeror selects additional items of work to make available to MBE Firms, those additional items should also be included below.

Identified Items of Work	Was this work listed in the procurement?	Does Offeror normally self-perform this work?	Was this work made available to MBE Firms? If no, explain why not.
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

☐ Please check if Additional Sheets are attached.

GOOD FAITH EFFORTS DOCUMENTATION TO SUPPORT WAIVER REQUEST

PART 2 – IDENTIFIED MBE FIRMS AND RECORD OF SOLICITATIONS

PAGE __ OF __

Prime Contractor:	Project Description:	PROJECT/CONTRACT
<i>Offeror Company Name, Street Address, Phone</i>		Solicitation #:

Identify the MBE Firms solicited to provide quotes for the Identified Items of Work made available for MBE participation. Include the name of the MBE Firm solicited, items of work for which quotes were solicited, date and manner of initial and follow-up solicitations, whether the MBE provided a quote, and whether the MBE is being used to meet the MBE participation goal. MBE Firms used to meet the participation goal must be included on the MBE Participation Schedule. Note: If the procurement includes a list of the MBE Firms identified during the goal setting process as potentially available to perform the items of work, the Offeror should solicit all of those MBE Firms or explain why a specific MBE was not solicited. If the Offeror identifies additional MBE Firms who may be available to perform Identified Items of Work, those additional MBE Firms should also be included below. Copies of all written solicitations and documentation of follow-up calls to MBE Firms must be attached to this form. This list should be accompanied by a Minority Contractor Unavailability Certificate signed by the MBE contractor or a statement from the Offeror that the MBE contractor refused to sign the Minority Contractor Unavailability Certificate (**Attachment D-1B - Exhibit A**). If the Offeror used a Non-MBE or is self-performing the identified items of work, Part 4 must be completed.

Name of Identified MBE Firm & MBE Classification	Describe Item of Work Solicited	Initial Solicitation Date & Method	Follow-up Solicitation Date & Method	Details for Follow-up Calls	Quote Rec'd	Quote Used	Reason Quote Rejected
Firm Name: _____ MBE Classification (Check only if requesting waiver of MBE subgoal.) <input type="checkbox"/> African American-Owned <input type="checkbox"/> Hispanic American- Owned <input type="checkbox"/> Asian American-Owned <input type="checkbox"/> Women-Owned <input type="checkbox"/> Other MBE Classification		Date: _____ <input type="checkbox"/> Mail <input type="checkbox"/> Facsimile <input type="checkbox"/> E-mail	Date: _____ <input type="checkbox"/> Phone <input type="checkbox"/> Mail <input type="checkbox"/> Facsimile <input type="checkbox"/> E-mail	Time of Call: _____ Spoke with: _____ <input type="checkbox"/> Left Message	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Used Other MBE <input type="checkbox"/> Used Non-MBE <input type="checkbox"/> Self-performing
Firm Name: _____ MBE Classification (Check only if requesting waiver of MBE subgoal.) <input type="checkbox"/> African American-Owned <input type="checkbox"/> Hispanic American- Owned <input type="checkbox"/> Asian American-Owned <input type="checkbox"/> Women-Owned <input type="checkbox"/> Other MBE Classification		Date: _____ <input type="checkbox"/> Mail <input type="checkbox"/> Facsimile <input type="checkbox"/> E-mail	Date: _____ <input type="checkbox"/> Phone <input type="checkbox"/> Mail <input type="checkbox"/> Facsimile <input type="checkbox"/> E-mail	Time of Call: _____ Spoke with: _____ <input type="checkbox"/> Left Message	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Used Other MBE <input type="checkbox"/> Used Non-MBE <input type="checkbox"/> Self-performing

☐ Please check if Additional Sheets are attached.

GOOD FAITH EFFORTS DOCUMENTATION TO SUPPORT WAIVER REQUEST
PART 3 – ADDITIONAL INFORMATION REGARDING REJECTED MBE QUOTES

PAGE __ OF __

Prime Contractor:	Project Description:	PROJECT/CONTRACT NUMBER:
<i>Offeror Company Name, Street Address, Phone</i>		Solicitation #:

This form must be completed if Part 1 indicates that an MBE quote was rejected because the Offeror is using a Non-MBE or is self-performing the Identified Items of Work. Provide the Identified Items Work, indicate whether the work will be self-performed or performed by a Non-MBE, and if applicable, state the name of the Non-MBE. Also include the names of all MBE and Non-MBE Firms that provided a quote and the amount of each quote.

Describe Identified Items of Work Not Being Performed by MBE (Include spec/ section number from Proposal)	Self-performing or Using Non-MBE (Provide name)	Amount of Non-MBE Quote	Name of Other Firms who Provided Quotes & Whether MBE or Non-MBE	Amount Quoted	Indicate Reason Why MBE Quote Rejected & Briefly Explain
	<input type="checkbox"/> Self-performing <input type="checkbox"/> Using Non-MBE _____	\$ _____	_____ <input type="checkbox"/> MBE <input type="checkbox"/> Non-MBE	\$ _____	<input type="checkbox"/> Price <input type="checkbox"/> Capabilities <input type="checkbox"/> Other
	<input type="checkbox"/> Self-performing <input type="checkbox"/> Using Non-MBE _____	\$ _____	_____ <input type="checkbox"/> MBE <input type="checkbox"/> Non-MBE	\$ _____	<input type="checkbox"/> Price <input type="checkbox"/> Capabilities <input type="checkbox"/> Other
	<input type="checkbox"/> Self-performing <input type="checkbox"/> Using Non-MBE _____	\$ _____	_____ <input type="checkbox"/> MBE <input type="checkbox"/> Non-MBE	\$ _____	<input type="checkbox"/> Price <input type="checkbox"/> Capabilities <input type="checkbox"/> Other
	<input type="checkbox"/> Self-performing <input type="checkbox"/> Using Non-MBE _____	\$ _____	_____ <input type="checkbox"/> MBE <input type="checkbox"/> Non-MBE	\$ _____	<input type="checkbox"/> Price <input type="checkbox"/> Capabilities <input type="checkbox"/> Other
	<input type="checkbox"/> Self-performing <input type="checkbox"/> Using Non-MBE _____	\$ _____	_____ <input type="checkbox"/> MBE <input type="checkbox"/> Non-MBE	\$ _____	<input type="checkbox"/> Price <input type="checkbox"/> Capabilities <input type="checkbox"/> Other
	<input type="checkbox"/> Self-performing <input type="checkbox"/> Using Non-MBE _____	\$ _____	_____ <input type="checkbox"/> MBE <input type="checkbox"/> Non-MBE	\$ _____	<input type="checkbox"/> Price <input type="checkbox"/> Capabilities <input type="checkbox"/> Other

☐ Please check if Additional Sheets are attached.

D- 2
OUTREACH EFFORTS COMPLIANCE STATEMENT

Complete and submit this form within 10 Business Days of notification of apparent award or actual award, whichever is earlier.

In conjunction with the Proposal submitted in response to Solicitation No. _____, I state the following:

1. Offeror identified subcontracting opportunities in these specific work categories:

2. Attached to this form are copies of written solicitations (with Proposal instructions) used to solicit certified MBE firms for these subcontract opportunities.

3. Offeror made the following attempts to personally contact the solicited MDOT-certified MBE firms:

4. **Please Check One:**

- ☐ This project does not involve bonding requirements.
- ☐ Offeror assisted MDOT-certified MBE firms to fulfill or seek waiver of bonding requirements. (DESCRIBE EFFORTS):

5. **Please Check One:**

_____ Offeror did attend the pre-Proposal conference.

_____ No pre -Proposal meeting/conference was held.

_____ Offeror did not attend the pre-Proposal conference.

PLEASE PRINT OR TYPE

Company:

Company Name (please print or type)

By:

Signature of Authorized Representative

Printed Name:

Printed Name

Title:

Title

Date:

Date

Address:

Company Address

CERTIFIED MBE SUBCONTRACTOR PARTICIPATION CERTIFICATION**INSTRUCTIONS:**

PRIME CONTRACTOR: After completing SECTIONS A, B, and D, provide this form to *each* certified Minority Business Enterprise subcontractor (MBE) listed on the MBE Participation Schedule (Attachment D-1A) allowing sufficient time for the MBE to respond within the required timeframe.

CERTIFIED MBE SUBCONTRACTOR: Complete SECTION C to acknowledge and certify the information in SECTION A. Return the completed form directly to the Procurement Officer identified in SECTION D within 10 days after notice from the Prime Contractor of the State's intent to award the Contract. Provide a copy to the Prime Contractor.

IF THIS FORM IS NOT RETURNED WITHIN THE REQUIRED TIME, THE PROCUREMENT OFFICER MAY DETERMINE THAT THE PRIME CONTRACTOR IS NOT RESPONSIBLE AND THEREFORE NOT ELIGIBLE FOR CONTRACT AWARD.

SECTION A

Provided that (Prime Contractor) _____ is awarded the State contract in conjunction with Solicitation Number _____, (Prime Contractor) _____ intends to enter into a subcontract with (Certified MBE Subcontractor) _____ with MDOT Certification Number _____ committing to participation by (Certified MBE Subcontractor) _____ of at least \$ _____ which equals _____% of the Total Contract Value for the following products/services:

NAICS CODE	WORK ITEM, SPECIFICATION NUMBER, LINE ITEMS OR WORK CATEGORIES (IF APPLICABLE)	DESCRIPTION OF SPECIFIC PRODUCTS AND/OR SERVICES

The Contractor and certified MBE each acknowledge that, for purposes of determining the accuracy of the information provided herein, the Procurement Officer may request additional information, including, without limitation, copies of the subcontract agreements and quotes. The Contractor and certified MBE each solemnly affirms under the penalties of perjury that: (i) the information provided in this Certified MBE Subcontractor Participation Certification is true to the best of its knowledge, information and belief, and (ii) it has fully complied with the State Minority Business Enterprise law, State Finance and Procurement Article §14-308(a)(2), Annotated Code of Maryland which provides that, except as otherwise provided by law, a Contractor may not identify a certified MBE in a Bid/Proposal and:

- (1) fail to request, receive, or otherwise obtain authorization from the MBE to identify the MBE in its Bid/Proposal;
- (2) fail to notify the MBE before execution of the Contract of its inclusion of the Bid/Proposal;
- (3) fail to use the MBE in the performance of the Contract; or
- (4) pay the MBE solely for the use of its name in the Bid/Proposal.

SECTION B – Prime Contractor

Signature of Representative: _____

Printed Name and Title: _____

Prime Firm's Name: _____

Federal Identification Number: _____

Street Address, City, State, Zip Code: _____

Phone: _____

Date: _____

SECTION C – Certified MBE Subcontractor

Signature of Representative: _____

Printed Name and Title: _____

MBE Firm's Name: _____

Federal Identification Number: _____

Street Address, City, State, Zip Code: _____

Phone: _____

Date: _____

SECTION D

This completed form is due to the Procurement Officer on or before: _____

Solicitation #: _____ Solicitation Title: _____

Agency/Dept.: _____ Procurement Officer: _____

Phone: _____ Email: _____

Street Address, City, State, Zip Code: _____

D-3B
MBE PRIME PROJECT PARTICIPATION CERTIFICATION

Please complete and submit this form to attest to each specific item of work that your MBE firm has listed on the MBE Participation Schedule (Attachment D-1A) for purposes of meeting the MBE participation goals. This form must be submitted within 10 Business Days of notification of apparent award. If the Offeror fails to return this affidavit within the required time, the Procurement Officer may determine that Proposal is not susceptible of being selected for Contract award.

Provided that _____ (Prime Contractor's Name) with Certification Number _____ is awarded the State contract in conjunction with Solicitation No. _____, such MBE Prime Contractor intends to perform with its own forces at least \$ _____ which equals to ____ % of the Total Contract Amount for performing the following goods and services for the Contract:

NAICS CODE	WORK ITEM, SPECIFICATION NUMBER, LINE ITEMS OR WORK CATEGORIES (IF APPLICABLE) For Construction Projects, General Conditions must be listed separately	DESCRIPTION OF SPECIFIC PRODUCTS AND/OR SERVICES	VALUE OF THE WORK

MBE Prime Contractor

Company:

Company Name (please print or type)

FEIN:

Federal Identification Number

Company Address: _____

Phone:

Printed Name:

Title:

By:

Signature of Authorized Representative

Date:

D-4A
Minority Business Enterprise Participation
Prime Contractor Paid/Unpaid Invoice Report

Report #:	Contract #:
Reporting Period (Month/Year):	Contracting Unit:
Prime Contractor: Report is due to the MBE Liaison by the 10th of the month following the month the services were provided. Note: Please number reports in sequence	Contract Amount:
	MBE Subcontract Amt:
	Project Begin Date:
	Project End Date:
	Services Provided:

Prime Contractor:			Contact Person:		
Address:					
City:			State:		ZIP:
Phone:		FAX:		E-mail:	
MBE Subcontractor Name:			Contact Person:		
Phone:		FAX:		E-mail:	
Subcontractor Services Provided:					
List all payments made to MBE subcontractor named above during this reporting period:			List dates and amounts of any outstanding invoices:		
	Invoice #	Amount		Invoice #	Amount
1.			1.		
2.			2.		
3.			3.		
4.			4.		
Total Dollars Paid: \$			Total Dollars Unpaid: \$		

- If more than one MBE subcontractor is used for this contract, you must use separate **Attachment D-4A** forms. Information regarding payments that the MBE prime will use for purposes of meeting the MBE participation goals must be reported separately in **Attachment D-4B**.
- **Return one copy (hard or electronic) of this form to the following addresses (electronic copy with signature and date is preferred):**

Contract Monitor Name

Address

Email

Signature (Required)

Contracting Unit

City, State Zip

Phone Number

Date

D-4B
Minority Business Enterprise Participation
MBE Prime Contractor Report

MBE Prime Contractor:	Contract #:
Certification Number:	Contracting Unit:
Report #:	Contract Amount:
Reporting Period (Month/Year):	Total Value of the Work to the Self-Performed for purposes of Meeting the MBE participation goal/subgoals:
MBE Prime Contractor: Report is due to the MBE Liaison by the 10th of the month following the month the services were provided. Note: Please number reports in sequence	
	Project Begin Date:
	Project End Date:

Contact Person:			
Address:			
City:		State:	
Phone:		ZIP:	
FAX:		E-mail:	

Invoice Number	Value of the Work	NAICS Code	Description of Specific Products and/or Services

Return one copy (hard or electronic) of this form to the following addresses (electronic copy with signature and date is preferred):

<hr/> <p>Contract Monitor Name</p> <hr/> <p>Address</p> <hr/> <p>Email</p> <hr/> <p>Signature (Required)</p>	<hr/> <p>Contracting Unit</p> <hr/> <p>City, State Zip</p> <hr/> <p>Phone Number</p> <hr/> <p>Date</p>
--	--

D-5
Minority Business Enterprise Participation
MBE Subcontractor Paid/Unpaid Invoice Report

Report #:	Contract #:
Reporting Period (Month/Year):	Contracting Unit:
Report is due by the 10th of the month following the month the services were performed.	MBE Subcontract Amt:
	Project Begin Date:
	Project End Date:
	Services Provided:

MBE Subcontractor Name:					
MDOT Certification #:					
Contact Person:					
Address:					
City:			State:		ZIP:
Phone:		FAX:		E-mail:	
Subcontractor Services Provided:					
List all payments received from Prime Contractor during reporting period indicated above.			List dates and amounts of any unpaid invoices over 30 days old.		
	Invoice Amount	Date		Invoice Amount	Date
1.			1.		
2.			2.		
3.			3.		
4.			4.		
Total Dollars Paid: \$			Total Dollars Unpaid: \$		
Prime Contractor:			Contract Person:		

Return one copy of this form to the following addresses (electronic copy with signature and date is preferred):

Contract Monitor Name

Address

Email

Signature (Required)

Contracting Unit

City, State Zip

Phone Number

Date

**MINORITY BUSINESS ENTERPRISE PROCEDURES
FOR
STATE FUNDED PUBLIC SCHOOL CONSTRUCTION
PROJECTS**

Revised July 2020

**Approved by the Cecil County Board of Education
on December 13, 2023.**

**These procedures supersede the latest procedures which were
previously approved on September 9, 2008**

**DATE OF ORIGINAL APPROVAL: February 12, 1980
DATE OF APPROVAL OF REVISION: December 13, 2023**

These procedures were approved by the Interagency Committee on School Construction on July 2020 shall be utilized by each public school system in Maryland as a condition for the receipt of State funds through the Public School Construction Program.

The effective date for implementation for projects in Cecil County is December 13, 2023.

**MINORITY BUSINESS ENTERPRISE PROCEDURES FOR STATE
FUNDED PUBLIC SCHOOL CONSTRUCTION PROJECTS****TABLE OF CONTENTS**

<u>SUBJECT HEADING</u>	<u>PAGE</u>
BACKGROUND	1
OVERVIEW	1
1.0 PURPOSE	1
2.0 EFFECTIVE DATE	1
3.0 DEFINITIONS	1
4.0 MBE GOAL SETTING PROCEDURES	4
5.0 IMPLEMENTING PROCEDURES - \$50,000 OR LESS	6
6.0 IMPLEMENTING PROCEDURES - OVER \$50,000	6
1. ADVERTISEMENTS, SOLICITATIONS AND SOLICITATION DOCUMENTS	6
2. OTHER ADVERTISEMENT AND OUTREACH REQUIREMENTS	7
3. ALL SOLICITATION DOCUMENTS SHALL INCLUDE	7
4. WAIVER PROCEDURES	8
5. ALL CONTRACTS SHALL INCLUDE	9
6. PROJECTS UTILIZING A CONSTRUCTION MANAGER DELIVERY METHOD	10
7. PROJECTS UTILIZING AN INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ) OR JOB ORDER CONTRACT (JOC) DELIVERY METHOD	10
8. PROJECTS UTILIZING THE DESIGN/BUILD DELIVERY METHOD	11
7.0 RECORDS AND REPORTS	11
8.0 MONITORING	12
9.0 MINORITY BUSINESS ENTERPRISE LIAISON	12
<u>SCHEDULES</u>	
ATTACHMENT A – MBE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT	A-1
ATTACHMENT B- MBE PARTICIPATION SCHEDULE	B-1
ATTACHMENT C - OUTREACH EFFORTS COMPLIANCE STATEMENT	C-1
ATTACHMENT D - MINORITY BUSINESS SUBCONTRACTOR PROJECT PARTICIPATION STATEMENT	D-1
ATTACHMENT E - MINORITY SUBCONTRACTOR UNAVAILABILITY CERTIFICATE	E - 1
ATTACHMENT F - MBE WAIVER DOCUMENTATION	F - 1

MINORITY BUSINESS ENTERPRISE PROCEDURES FOR STATE FUNDED PUBLIC SCHOOL CONSTRUCTION PROJECTS**BACKGROUND**

In 1978, the Maryland General Assembly passed legislation, which was signed into law to establish the State's Minority Business Enterprise Program. This new law set as a goal that at least 10 percent of each unit of State government's total dollar value of procurement contracts for purchases and/or contracts be awarded to minority business enterprises. This law was subsequently modified and the goal was increased to 14 percent. In 2001 the General Assembly significantly changed the program, setting the overall goal to 25 percent with subcontracting sub-goals of 7 percent for certified African American-owned businesses and 10 percent for certified women-owned businesses. In 2012, the General Assembly passed legislation authorizing the Governor's Office of Minority Affairs (GOMA), in consultation with the Maryland Department of Transportation (MDOT) and the Office of the Attorney General, to set the overall aspirational MBE goal every two years. GOMA proposed the increase to 29% after considering several factors prescribed by law, including the relative availability of minority- and women-owned businesses as demonstrated by the State's most recent Disparity Study, as well as the past participation of MBEs in state procurement. The 29% goal will be in place for fiscal years 2021 and 2022 on State-funded contracts.

In 1979, the Rules, Regulations, and Procedures for the Administration of the School Construction Program were revised by the Board of Public Works to require each local board of education to adopt procedures to attempt to include minority business enterprises in State funded school construction projects. The State law was revised and now states: "The Interagency Committee on School Construction (IAC) shall require each local board of education to adopt procedures consistent with this chapter before obtaining funds for public school construction projects".

In May 2007, the Rules, Regulations, and Procedures were replaced by regulations. The regulations concerning project procurement (COMAR 23.03.03) indicate that the State's minority business enterprise goals and procedures apply to all State funded projects, irrespective of procurement method.

In July 2011, a Sub-Goal Directive was issued by the Governor's Office of Minority Affairs (GOMA). This Directive established the process for setting contract-by-contract sub-goals. Sub-goals consistent with demonstrated underrepresentation were pre-established within the Directive.

The 2012 MBE Program statute directs the Board of Public Works (BPW) to issue regulations that:

- Requiring bidders or offerors to complete a bid document that specifies the overall percentage of the contract they agree to achieve through MBEs clarifies that the documents the bidder or offeror submits for its MBE participation commitments must be made part of the executed contract with the State; and
- Requires that every contract that includes MBE participation goals contain a liquidated damages provision in the event that the prime contractor does not comply in good faith with its MBE participation commitments.

OVERVIEW

This Minority Business Enterprise (MBE) procedure document was originally developed in response to a requirement set forth in the Rules, Regulations, and Procedures for the Administration of the School Construction Program. The MBE requirement was initially established under HB 64, which was passed in the 1978 session of the Maryland General Assembly and signed into law as Chapter 575 of the Acts of 1978.

Since the Board adopted its original Minority Business Enterprise Procedures, there have been changes in State statutes, regulations adopted by the Board of Public Works, procedural requirements, project eligibility requirements and the sub-goals to be set for school construction projects. This revised procedure is consistent with current legislation and the changes to the Code of Maryland Regulations (COMAR) requirements, effective November 7, 2005, May 21, 2007, and November 14, 2011.

The revised procedures issued by GOMA in July 2011 provide guidance for establishing overall goals that are contract-specific and reasonable, and for setting subgoals only on contracts that actually have subcontracting opportunities. The procedures for setting overall MBE goals have not changed, however once the overall goal is decided by the Procurement Review Group (PRG), the subgoal analysis must be completed for contracts that have a total potential MBE participation over a minimum threshold amount, as defined for specific Major Industry Categories.

All activities funded through the Public School Construction Program fall within Construction in the Major Industry Categories. In place of the original goals of 7 percent for African American-owned businesses and 10 percent for certified women-owned businesses, the subgoals for construction are now 8 percent for African American-owned businesses and 11 percent for women-owned businesses. Subgoals are not to be set for other minority groups, which may however be represented in the overall contract goal.

1.0 PURPOSE

The purpose of the Procedures is to fulfill the intent of the law and the guidelines issued by GOMA by setting appropriate goals for minority business enterprise participation in every contract that includes State funding through the Public School Construction Program (PSCP). Local Educational Agencies (LEAs) shall attempt to achieve the result that a minimum of 29 percent of the total dollar value of all construction contracts is made directly or indirectly with certified minority business enterprises when State PSCP funds are utilized, with a minimum of 8 percent from certified African American-owned businesses, a minimum of 11 percent from certified women-owned businesses, and the balance from any certified minority business enterprises. All general contractors, including certified MBE firms, when bidding as general or prime contractors are required to attempt to achieve the MBE subcontracting goals from certified MBE firms.

2.0 EFFECTIVE DATE

These procedures have been adopted for use in Cecil County and supersede previously utilized MBE procedures, and will take effect on or after December 13, 2023, in accordance with Title 14, §3, State Finance and Procurement Article, effective July 1, 2011.

3.0 DEFINITIONS

1. **Certification** means the determination that a legal entity is a minority business enterprise consistent with the intent of Subtitle 3 of the State Finance and Procurement Article.
2. **Certified Minority Business Enterprise** means a minority business that holds a certification issued by the Maryland State Department of Transportation (MDOT).
3. **Corporation**, as defined by MDOT, is an artificial person or legal entity created by or under the authority of the laws of any state of the United States, the District of Columbia or a territory or commonwealth of the United States and formed for the purpose of transacting business in the widest sense of that term, including not only trade and commerce, but also manufacturing, mining, banking, insurance, transportation and other forms of commercial or industry activity where the purpose of the organization is profit. For eligibility for certification, disadvantaged and/or minority individuals must own at least 51 percent of the voting stock and at least 51 percent of the aggregate of all classes of stock that have been issued by the corporation. (Note: stock held in trust is not considered as stock held by the disadvantaged businesspersons when computing the business person(s) ownership.)
4. **Managerial Control**, as defined by MDOT, means that a disadvantaged or minority owner(s) has the demonstrable ability to make independent and unilateral business decisions needed to guide the future and destiny of a business. Control may be demonstrated in many ways. For a minority owner to demonstrate control, the following examples are put forth, but are not intended to be all inclusive:
 - a. Articles of Incorporation, Corporate Bylaws, Partnership Agreements and other agreements shall be free of restrictive language which would dilute the minority owner's control thereby preventing the minority owner from making those decisions which affect the destiny of a business;
 - b. The minority owner shall be able to show clearly through production of documents the areas of the disadvantaged business owner's control, such as, but not limited to:
 - 1) Authority to sign payroll checks and letters of credit;
 - 2) Authority to negotiate and sign for insurance and/or bonds;
 - 3) Authority to negotiate for banking services, such as establishing lines of credit; and
 - 4) Authority to negotiate and sign for contracts.
 - c. Agreements for support services that do not lessen the minority owner's control of the company are permitted as long as the disadvantaged or minority business owner's authority to manage the company is not restricted or impaired.
5. **Minority Business Enterprise (MBE)** means any legal entity, except a joint venture, that is (a) organized to engage in commercial transactions, and (b) at least 51 percent owned and controlled by one or more individuals who are socially and economically disadvantaged including: African Americans; American Indian/Native Americans; Asians; Hispanics; Physically or mentally disabled individuals; Women; or A non-profit entity organized to promote the interests of physically or mentally disabled individuals.
6. **Minority Business Enterprise Liaison** means the employee of the school system designated to administer the Minority Business Enterprise Procedures for State funded public school construction projects.
7. **Operational Control**, as defined by MDOT, means that the disadvantaged or minority owner(s) must possess knowledge necessary to evaluate technical aspects of the business entity. The primary consideration in determining operational control and the extent to which the disadvantaged or minority owner(s) actually operates a business will rest upon the specialties of the industry of which the business is a part. The minority owner should have a working knowledge of the technical requirements needed to operate in his/her industry. Specifically, in the construction industry and especially among small (one to five person firms) contractors, it is reasonable to expect the disadvantaged or minority owner(s) to be knowledgeable of all aspects of the business. Accordingly, in order to clarify the level of operational involvement which a minority owner must have in a business for it to be considered eligible, the following examples are put forth, but are not intended to be all inclusive:
 - a. The minority owner should have experience in the industry for which certification is being sought; and
 - b. The minority owner should demonstrate that basic decisions pertaining to the daily operations of the business are independently made. This does not necessarily preclude the disadvantaged or minority owner(s) from seeking paid or unpaid advice and assistance. It does mean that the minority owner currently must possess the knowledge to weigh all advice given and to make an independent determination.
8. **Ownership**, as defined by MDOT, means that:
 - a. The minority owner(s) of the firm shall not be subject to any formal or informal restrictions, which limit the customary discretion of the owner(s). There shall be no restrictions through, for example, charter requirements, by-law provisions, partnership agreements, franchise or distributor agreements or any other agreements that prevent the minority owner(s), without the cooperation or vote of any non-minority, from making a business decision of the firm.
 - b. This means that the disadvantaged or minority persons, in order to acquire their ownership interests in the firm, have made real and substantial contributions of capital, expertise or other tangible personal assets derived from independently owned holdings without benefit of a transfer of assets, gift or inheritance from non-minority persons. Examples of insufficient contributions include a promise to contribute capital, a note payable to the firm or its owners who are not minority persons or the mere participation as an employee rather than as a manager. If the ownership interest held by a disadvantaged or minority person is subject to formal or informal restrictions, such as options, security interests, agreements, etc., held by a non-minority person or business entity, the options, security interests, agreements, etc., held by the non-minority person or business entity must not significantly impair the disadvantaged or minority person's ownership interest.
9. **Partnership** means an unincorporated association of two or more persons to carry on as co-owners of a business for profit. For a partnership to be deemed eligible for certification under the MDOT Program, the disadvantaged or minority person's interest must be at least 51 percent of the partnership capital.
10. **Socially and Economically Disadvantaged** means a citizen or lawfully admitted permanent resident of the United States who is socially disadvantaged and economically disadvantaged. The law establishes the level of personal net worth at \$1,500,000, increased

by the Consumer Price Index (CPI); above this net personal worth figure, an individual may not be found to be socially and economically disadvantaged. The current personal net worth figure can be found on the MDOT website at: <http://www.mdot.maryland.gov/Office%20of%20Minority%20Business%20Enterprise/Resources%20Information>.

11. **Sole Proprietorship**, as defined by MDOT, is a for-profit business owned and operated by a disadvantaged or minority person in his or her individual capacity. For a sole proprietorship to be deemed eligible for certification under the DBE/MBE Program, the disadvantaged or minority person must be the sole proprietor.
12. **Days** means business days unless otherwise specified. Business days are defined as Monday through and including Friday, with the exception of Nationally or State recognized holidays.

4.0 MBE GOAL SETTING PROCEDURES

1. General
 - a. The overall MBE goal and the subgoals, if appropriate, are established on a per-contract basis for the purposes of solicitation.
 - 1) Where a project consists of more than one contract, the individual contract goals and subgoals, if appropriate, should reflect the overall project goal and subgoals, if appropriate.
 - 2) The words "if appropriate" and "if applicable" throughout this document reflect the understanding that for some solicitations, no African American or Asian American subgoals should be established.
 - b. The MBE program requires that all race-neutral measures be considered before making use of race-based measures. Using a combination of race-neutral and race-based measures for each specific school construction project will help ensure that certified MBE firms are afforded the opportunity to submit bids and be utilized to the greatest extent possible.
 - 1) *Race-neutral measures* include any action taken by the LEA to make it easier for all contractors, including MBEs, to compete successfully for public school construction project contracts. These might include widespread advertising of bidding opportunities, job fairs, and similar publicity events.
 - 2) *Race-based measures* include setting an overall MBE goal and MBE subgoals, if appropriate, based upon race, gender, ethnicity, etc., for a specific contract.
2. General Considerations for Setting MBE Goal and Subgoal. The overall MBE goal and the subgoals, if appropriate, should be set for each specific project contract, considering but not limited to, the following factors:
 - a. The extent to which the work to be performed can reasonably be segmented to allow for MBEs to participate in the project contract;
 - b. A determination of the number of certified MBEs that potentially could perform the identified work;
 - c. The geographic location of the project in relationship to the identified certified MBEs;
 - d. Information obtained from other State and local departments/agencies related to establishing a MBE goal and/or subgoals for similar construction projects or work in the jurisdiction;
 - e. Information obtained from other State and local departments/agencies related to MBE participation in similar construction projects or work in the jurisdiction; and
 - f. Any other activities or information that may be identified as useful and productive.
3. MBE Subgoal Setting Procedure
 - a. Once an overall MBE participation goal is set for a project contract, each unit shall determine the appropriate contract subgoals.
 - b. If the expected value of the procurement is not equal to or in excess of \$200,000, the Subgoal process is discretionary.
 - c. All State funded public school construction is classified as Construction in the Major Industry Category schedule established by regulation.
 - 1) Accordingly, subgoals for school construction projects receiving State funding participation apply to the following Subgroups:
 - African American: 8%
 - Women-owned: 11%
 - 2) Dually certified firms are to be counted as being owned by a member of the relevant ethnic Subgroup, not as a woman-owned business.
 - d. Subgoals shall only be set when the overall goal is greater than or equal to the sum of the subgoals listed in subsection 3. of this section, plus two (2), i.e., the overall goal must be at least 21%; otherwise, no subgoals may be established for the contract.
 - e. A subgoal may not be set if the number of certified firms in the Subgroup is less than three (3).
 - f. If the Subgroup has three (3) or more certified firms available to perform the work, the Recommended Subgoal should be set at the number specified above, unless a basis is provided in the Procurement Review Group documentation for not applying the specified subgoal.
 - g. For each procurement that has an overall goal, the MBE Program Subgoal Worksheet (Appendix I) shall be completed and signed by the LEA Procurement Officer and MBE Liaison.
4. The Superintendent or designee shall establish one or more procurement review groups (PRG). The PRG must include at a minimum the MBE liaison and the Procurement Officer (PO) or a representative from the procurement office. The PRG could also include a capital improvement project manager, the project architect, the cost estimator, the Construction Manager, and/or other individuals selected by the Superintendent or designee.
 - a. The PRG should communicate and/or meet as needed to consider the subcontracting goal and subgoals, if applicable, for individual projects or groups of projects.
 - b. The PRG should consider the factors cited in 4 above when establishing the MBE goal and subgoals, if applicable, for each project or segmented piece of a project that are reasonable and attainable.
 - c. The PRG must complete and submit a written analysis for each state funded school construction project with an estimated cost that is expected to exceed \$200,000.
 - 1) For state-funded projects that required review of construction documents (CD), the written analysis and the MBE

- Program Worksheet (appendix I) shall be submitted with the CD documents to the Department of General Services, and will be reviewed by the DGS for submission, appropriate signatures and correspondence between the goal and subgoals, if applicable, indicated in the analysis and those of the procurement documents.
- 2) For state-funded projects that do not require review of construction documents, the written analysis and the MBE Program Worksheet shall be submitted to the PSCP, and will be reviewed for submission and appropriate signatures.
 - 3) For locally funded projects that are anticipating to be requested for state approval of planning and funding, the written analysis and the MBE Program Worksheet shall be submitted with CD documents to the MSDE, and will be reviewed for submission, appropriate signatures, and correspondence between the goal and subgoals, if applicable, indicated in the analysis and those of the procurement documents. Submission of the documents is a pre-condition for recommendation for state approval of planning and funding when submitted in an annual CIP.
- d. For projects estimated to cost between \$50,000 and \$200,000 the same analysis form is to be completed and submitted. This could be a responsibility of the PRG, but could be performed by others as well.
- 1) For state-funded projects that require review of construction documents (CD), the written analysis and the MBE Program Worksheet shall be submitted with the CD documents to the DGS, and will be reviewed for submission, appropriate signatures, and correspondence between the goal and subgoals, if applicable, indicated in the analysis and those of the procurement documents.
 - 2) For state-funded projects that do not require review of construction documents, the written analysis and the MBE Program Worksheet shall be submitted to the PSCP and will be reviewed for submission and appropriate signatures.
- e. If the project cost is estimated to exceed \$200,000 then a copy of the written analysis shall also be sent to GOMA at the same time that the written analysis is submitted to the DGS or the PSCP.
- f. The PRG should consult with local counsel for the Board of Education as needed.
5. It is recognized that by utilizing the factors cited in 4 above, the MBE goal and/or subgoals, if applicable, for a specific project or portion thereof may be significantly higher than the overall goals of the program (29% overall, with 8% from African American-owned businesses and 11% from women-owned businesses). It is also recognized and possible that there will be MBE goals set that are lower than those stated above or even that no MBE goal and/or subgoals will be set for a specific project or the segmented piece of the project.
 6. Assistance in reviewing the factors cited above and setting a goal and/or subgoals, if applicable, for specific projects or a segmented piece of a project can be obtained by contacting the PSCP and/or GOMA.

5.0 IMPLEMENTING PROCEDURES - \$50,000 OR LESS

For construction projects estimated to cost \$50,000 or less, the following procedures will be utilized

1. A MBE goal and/or MBE subgoals are not required to be set for contracts that are anticipated to be for \$50,000 or less.
2. All advertisements, solicitations, and solicitation documents shall include the following statement:
 - a. "Certified Minority Business Enterprises are encouraged to respond to this solicitation."
3. To encourage greater MBE participation the staff of the school system should send out notices of potential projects and a specific project to MBEs to solicit bids or proposals directly from minority business enterprise contractors that are certified.
4. A copy of the solicitation notice, preferably electronically, shall be sent to GOMA at the same time the advertisement for the solicitation is released.
5. When a pre-bid or pre-proposal conference or meeting is held, the MBE liaison or designated representative shall explain that all bidders or offerors are encouraged to utilize certified MBEs for this project or segments of the project.
6. Upon request for a specific project, the school system shall provide one set of drawings and specifications (and addenda when issued) to minority business enterprise associations recognized by GOMA. They will be available free of charge to be picked up at a location designated by the LEA. A review of the bid or proposal activity submitted by an association's members may be initiated to justify continuation of this service.
7. Minority Business Enterprise forms identified in Section 6.0 of this procedure for projects over \$50,000, are not required to be submitted for these projects (\$50,000 or less).
8. The names of prime contractors obtaining drawings and specifications will be shared with certified MBEs and MBE associations, upon request.
9. At the time of the contract award, the MBE Liaison or a designated person will record any anticipated certified minority business enterprise participation data made available from the successful contractor.
10. A business that presents itself as a minority business may participate in a project but may not be counted toward MBE participation until it is a certified minority business enterprise. If the MBE is not certified at the time of contract award, it may not be counted at that time. Only the funds paid after MDOT certification can be counted as MBE participation in the project. If a certified MBE fails to meet the standards specified in State Finance and Procurement Article 14-301 (G) and (I), Annotated Code of Maryland, the payments made to the MBE can be recorded and counted under a contract entered into when the MBE was eligible and certified. Ineligibility of an MBE to participate in the MBE program may not be the sole cause of the termination of the MBE contractual relationship for the remainder of the term of the contract.
11. The contractor will complete the Standard Monthly Contractor's Requisition for Payment (IAC/PSCP Form 306.4), specifically page 3 of 16, Minority Business Enterprise Participation, with each requisition submitted for payment. If certified MBE firms are known at the time of contract award their names and other appropriate information should be entered on page 3 of the first and all subsequent requisitions for payment. Any MBEs identified during the life of the project should be added as soon as the contractor engages them after approval by the LEA.
12. Upon completion of the project the contractor will provide a summary of the total of all funds paid to certified MBE firms. This should be within the contractor's final requisition for payment. The summary shall be forwarded to the PSCP with the close-out paperwork.

6.0 IMPLEMENTING PROCEDURES - Over \$50,000

For construction projects estimated to cost in excess of \$50,000, the following procedures will be utilized:

1. All advertisements, solicitations, and solicitation documents shall include the following statements:
 - a. "Certified Minority Business Enterprises are encouraged to respond to this solicitation notice."
 - b. "The contractor or supplier who provides materials, supplies, equipment and/or services for this construction project shall attempt to achieve the specific overall MBE goal of __ percent established for this project. All prime contractors, including certified MBE firms, when submitting bids or proposals as general or prime contractors, are required to attempt to achieve this goal from certified MBE firms."
 - c. If subgoals have been established for this project then one of the following should be included:
 - 1) "The subgoals established for this project are __ percent from African American-owned businesses and __ percent from women-owned businesses."
 - 2) "The subgoal established for this project is __ percent from African American-owned businesses."
 - 3) "The subgoal established for this project is __ percent from women-owned businesses."
 - d. "Notwithstanding any subgoals established above, the Contractor is encouraged to use a diverse group of subcontractors and suppliers from any/all of the various MBE classifications to meet the remainder of the overall MBE participation goal."
 - e. "The bidder or offeror is required to submit with its bid or proposal a completed Attachment A – MDOT Certified MBE Utilization and Fair Solicitation Affidavit and Attachment B, MBE Participation Schedule, as described in the solicitation documents."
 - f. If there is no overall MBE goal or MBE subgoals established for the project, then only 1.A. above is to be included.
 - g. The Bidder/Offeror is advised that liquidated damages will apply in the event the Contractor fails to comply in good faith with the provisions of the MBE program and pertinent Contract provisions.
2. Other Advertisement and Outreach Requirements
 - a. To encourage greater MBE participation the staff of the school system should send out notices of potential projects to MBEs or solicit bids or proposals directly from minority business enterprise contractors that are certified.
 - b. A copy of the solicitation notice, preferably electronically, shall be sent to GOMA at the same time the advertisement for the solicitation is released.
 - c. Upon request for a specific project, the school system shall provide one set of drawings and specifications (and addenda when issued) to minority business enterprise associations recognized by GOMA. They will be available free of charge to be picked up at a location designated by the LEA. A review of the bid or proposal activity by an association's members may be initiated to justify continuation of this service.
 - d. When a pre-bid or pre-proposal conference is held, the MBE Liaison or designated representative shall explain the MBE goal and subgoals, if applicable; the MBE provisions of the solicitation; the documentation required at the time of submission; its relationship to the responsiveness of the bidder or offeror; how to complete the required schedules, and additional information and supporting documentation that may be required after the bid or proposal opening. All contractors who attend the pre-bid or pre-proposal conference should receive a list or information explaining how to obtain a listing of certified MBE firms who could perform the work or have expressed an interest in performing the school construction work required for the specific project in the jurisdiction.
 - e. The names of prime contractors obtaining drawings and specifications will be shared with certified MBEs and MBE associations, upon request.
 - f. The MBE liaison, in conjunction with the procurement officer or project staff, should respond to all applicable questions and concerns relating to the project's MBE requirements completely and in a timely fashion to ensure that all potential contractors and subcontractors can compete effectively.
3. All Solicitation Documents Shall Include the Following:
 - a. "Certified Minority Business Enterprises are encouraged to respond to this solicitation notice". "All contractors, including certified MBE firms, when submitting bids or proposals as prime contractors are required to attempt to achieve the MBE goal and subgoals, if applicable, established for the project from certified MBEs".
 - b. "The contractor or supplier who provides materials, supplies, equipment and/or services for this construction project shall attempt to achieve the result that a minimum of __ percent of the total contract value is with certified Minority Business Enterprises, with a minimum of __ percent from certified African American-owned businesses, a minimum of __ percent from certified women-owned businesses, and the balance from any certified Minority Business Enterprises. All contractors, including certified MBE firms, when submitting bids or proposals as prime contractors, are required to attempt to achieve the MBE goal and subgoals, if applicable, from certified MBEs". Note: see 6.1.C. above for variations that may be required.
 - f. The Bidder/Offeror is advised that liquidated damages will apply in the event the Contractor fails to comply in good faith with the provisions of the MBE program and pertinent Contract provisions.
 - c. Each bid or offer submitted, including a submittal from a certified MBE in response to this solicitation, shall be accompanied by a completed Attachment A – MDOT Certified MBE Utilization and Fair Solicitation Affidavit and Attachment B - MBE Participation Schedule.
 - 1) Attachment A shall be submitted with the sealed bid price or proposal at a place, date, and time specified in the solicitation document.
 - 2) As an alternative, and at the discretion of the school system, Attachments B could be submitted within a maximum of 30 minutes after the due time of the bid or proposal documents. Within that time (30 minutes) each bidder or offeror must submit Attachment B, in a separate sealed envelope. The sealed price envelopes from each bidder or offeror who submits both the sealed bid or proposal and the envelope with Attachment B will then be opened and reviewed and recorded as a viable submission. Any contractor that fails to submit the second envelope, with Attachment B, prior to the specified time allowed (30 minutes) after the submittal of the sealed bid or proposal will be deemed non-responsive and the sealed bid or proposal will not be opened or considered.
 - d. The submittal of a completed and signed Attachment A – MDOT Certified MBE Utilization and Fair Solicitation Affidavit

indicates the bidder's or offeror's recognition and commitment to attempt to achieve the MBE goal and/or MBE subgoals, if applicable, for the specific project.

- 1) The bidder or offeror recognizes that their efforts made to initiate contact, to solicit, and to include MBE firms in this project will be reviewed carefully and evaluated based upon the actions taken by them prior to and up to 10 business days before the bid or proposal opening. Follow-up actions taken by the bidder or offeror within the 10 business days prior to the bid opening will also be considered.
- 2) Based upon this review and evaluation it will be determined, by the MBE liaison, procurement officer, or a designated person, if a good faith effort was made by the apparent low bidder or apparent successful offeror.
- e. The bidder or offeror must check one of the two boxes on Attachment A, which relates to the level of MBE participation achieved for the project. The bidder's or offeror's signature indicates that in the event that they did not meet the MBE goal or subgoals, if applicable, that:
 - 1) They are therefore requesting a waiver, and
 - 2) Documentation of their good faith efforts will be provided to the school system staff within 10 business days of being notified that they are the apparent low bidder or apparent successful offeror.
- f. The bidder or offeror must submit Attachment B (as and when described above), which lists and provides information related to each certified MBE firm that the bidder or offeror will utilize on this project. A completed and accurate Attachment B is required. All of the work specified to be performed by each MBE firm, MDOT certification number, minority type, and percentages must be correct.
- g. Attachment B should be completed and submitted with all calculations utilizing the base bid or offer only. A revised Attachment B should be submitted by the successful bidder or offeror once a determination is made as to the acceptance and/or rejection of any alternates.
- h. If a request for a waiver has been made, the appropriate box on Attachment A has been checked and the attachment signed, then the LEA should obtain and review the apparent low bidder's or successful offeror's supporting documentation of the good faith efforts to justify the granting of the waiver, prior to submitting the contract award for approval to the board of education.
- i. The following documentation shall be considered as part of the contract, and shall be furnished by the apparent low bidder or successful offeror to the MBE Liaison or designated person, within ten (10) business days from notification that the firm is the apparent low bidder or successful offeror:
 - 1) A completed and signed Attachment B (Revised) – MBE Participation Schedule and Attachment C – Outreach Efforts Compliance Statement and Attachment D - Subcontractor Project Participation Statement. One Attachment D MBE–Subcontractor Project Participation Statement shall be completed and signed by the prime contractor and each MBE firm listed on Attachment B (Revised) – MBE Participation Schedule.
 - 2) Notification for purposes of this procedure means the earliest of the following methods of communication: orally in person, orally by telephone, orally by a telephone message, a faxed communication, a letter by date received or an electronic communication.
 - 3) The ten (10) business days do not include the day the notification is received, weekends or holidays (State or Federal), but the material submitted must be received by the close of business on the tenth day.
 - 4) The requirement to submit the above-listed documentation within the time frame specified will be considered by the IAC in its review of the request for contract award for the project. Failure to submit the required documentation within the time frame specified may result in a delay of the approval of the award of the contract, or the materials being returned without the approval of the award of the contract.
4. Waiver Procedures
 - a. If the apparent low bidder or successful offeror has determined that they are unable to meet the overall MBE goal or subgoals, if applicable, for the project at the time of submission of a bid or offer, they must check the box on Attachment A indicating the request for a waiver. The signature recognizes and acknowledges that a request for a waiver is being made. The apparent low bidder or successful offeror will therefore be required to submit information and substantiating documentation that will be reviewed to justify the granting of a waiver.
 - b. If the apparent low bidder or successful offeror is unable to achieve the overall MBE contract goal and/or the MBE subgoals, if applicable, from certified African American-owned businesses and/or from certified women-owned businesses, the apparent low bidder or successful offeror shall submit, within 10 business days from notification that the firm is the apparent low bidder or successful offeror, a completed Attachment C - Outreach Efforts Compliance Statement, Attachment D – Subcontractor Project Participation Statement (if applicable), Attachment E - Minority Subcontractor Unavailability Certificate, and Attachment F - MBE Waiver Documentation which shall include the following:
 - 1) A detailed statement of the efforts made by the bidder or offeror to identify and select portions of the work proposed to be performed by subcontractors in order to increase the likelihood of achieving the stated goal;
 - 2) A detailed statement of the efforts made by the bidder or offeror prior to and up to at least ten (10) business days before the bid or proposal opening to solicit minority business enterprises through written notices that describe the categories of work for which subcontracting is being solicited, the type of work to be performed and specific instructions on how to submit a bid or proposal;
 - 3) Follow-up actions taken by the bidder or offeror within the 10 business days prior to the bid or proposal opening will also be considered.
 - 4) A detailed statement of the bidder's or offeror's efforts to make personal contact with MBE firms identified for item (2) above;
 - 5) A record of the name, address, telephone number and dates contacted for each MBE identified under items (2) and (3) above;
 - 6) A description of the information provided to MBEs regarding the drawings, specifications and the anticipated time schedule for portions of the work to be performed;
 - 7) Information on activities to assist minority business enterprises to fulfill bonding requirements or to obtain a waiver

- of these requirements;
- 8) Information on activities to publicize contracting opportunities to minority business enterprises, attendance at pre-bid or pre-proposal meetings or other meetings scheduled by the MBE Liaison or designated representative; and
 - 9) As to each MBE that placed a subcontract quotation or offer which the apparent low bidder or successful offeror considers not to be acceptable, a detailed statement of reasons for this conclusion.
- c. In addition to any waiver documentation the apparent low bidder or successful offeror shall submit one completed Attachment D - Subcontractor Project Participation Statement for each MBE firm that will participate in the project consistent with the information previously provided at the time of the submission of Attachment B (Original) or the revised Attachment B (Revised), if alternates were accepted.
- d. A waiver of an MBE contract goal or subgoal, if applicable, may be granted by the school system only upon receipt of Attachment C - Outreach Efforts Compliance Statement, Attachment D - Minority Subcontractors Unavailability Statement, and Attachment F - MBE Waiver Documentation as described above in items 1) through 9)
- 1) The MBE Liaison will review and accept or reject the minority business enterprise material that is submitted, and may obtain legal advice or assistance from their attorney.
 - 2) The MBE waiver request may not be considered unless all of the documentation specified above has been submitted in a timely fashion by the apparent low bidder or successful offeror.
 - 3) Assistance in the review of a request for a waiver (the documentation and justifications) may be requested from the PSCP and/or GOMA.
 - 4) If a determination is made that the apparent low bidder or successful offeror did make a good faith effort, based upon a review of the documentation submitted, then the waiver must be granted. The award of contract shall then be made. The material and information submitted, including the LEA's review and analysis notes and conclusion, shall be retained in the project file.
 - 5) If a determination is made that the apparent low bidder or successful offeror did not make a good faith effort, based upon a review of the documentation submitted, then the waiver should not be granted. The material and information submitted, including the LEA's review and analysis notes and conclusion, shall be retained in the project file. The award of contract shall then be made to the next lowest bidder or offeror, who meets the contractual requirements, including the MBE requirements.
 - 6) When a waiver is requested, a copy of Attachment F - MBE Waiver Documentation, accepted and signed by a school system representative and with the reasons for the determination, shall be forwarded to GOMA and the PSCP within ten (10) business days after approval of the contract award by the board of education. Failure to submit the required documentation within the time frame specified may result in delayed approval of the award of contract by the IAC.
5. All Contracts Shall Include The Following:
- a. "The contractor shall perform the contract in accordance with the representations made in Attachment A – MDOT Certified Minority Business Enterprise Utilization and Fair Solicitation Affidavit and Attachment B – MBE Participation Schedule submitted as part of the bid or proposal".
 - b. "Failure to perform the contract as specified and presented in the bid or proposal submission without prior written consent of the owner shall constitute a violation of a material term of the contract".
 - 1) The contractor shall structure his/her operations for the performance of the contract to attempt to achieve the MBE goals as stated in the solicitation document.
 - 2) The contractor agrees to use his/her best efforts to carry out these requirements consistent with the efficient and effective performance of the contract.
 - 3) The contractor must ensure that all certified MBEs shall have the maximum practical opportunity to compete for additional subcontract work under the contract, even after the award of the contract.
 - 4) The contractor shall submit monthly to the MBE Liaison or the school system's designated representative a report listing any unpaid invoices, over 30 days old, received from any certified MBE subcontractor, the amount of each invoice and the reason payment has not been made.
 - 5) The contractor shall include in its agreements with its certified MBE subcontractors, a requirement that those subcontractors submit monthly to the MBE Liaison or appropriate representative a report that identifies the prime contract and lists all payments received from the contractor in the preceding 30 days, as well as any outstanding invoices, and the amount of those invoices.
 - 6) The contractor shall cooperate in any reviews of the contractor's procedures and practices with respect to minority business enterprises, which the MBE Liaison, the PSCP, and/or GOMA may, from time to time, conduct.
 - 7) The contractor shall maintain such records as are necessary to confirm compliance with its MBE participation obligations. These records must indicate the identity of certified minority and non-minority subcontractors employed on the contract, the type of work performed by each, and the actual dollar value of work performed. Subcontract agreements documenting the work performed by all MBE participants must be retained by the contractor and furnished to the MBE Liaison and or appropriate representative on request.
 - 8) All records concerning MBE participation must be retained by the contractor for a period of five years after final completion of the contract, and will be available for inspection by the MBE Liaison, representatives from the PSCP and/or other designated official entities.
 - 9) At the option of the MBE Liaison, or appropriate agency representative, upon completion of the contract and before final payment and/or release of retainage, the contractor shall submit a final report in affidavit form and under penalty of perjury, of all payments made to, or withheld from MBE subcontractors.
 - 10) If at any time after submission of a bid or proposal and before execution of a contract, the apparent successful bidder or offeror determines that a certified MBE listed on Attachment B – MBE Participation Schedule has become or will become unavailable, then the apparent successful bidder or offeror shall immediately notify the procurement officer and provide such officer with a reason(s) why the change is requested. Any desired change

- in Attachment B – MBE Participation Schedule shall be approved in advance by the procurement officer and shall indicate the contractor's efforts to substitute another certified MBE subcontractor to perform the work. Desired changes may occur only upon written approval by the LEA.
- 11) A business that presents itself as a minority business may participate in a project but the contract value may not be counted toward the MBE goal or subgoals, if applicable, until the business is certified by MDOT. If it is not certified at the time of contract award it may not be counted toward the goal or subgoals, if applicable, at that time. Only the funds paid after MDOT certification can be counted toward meeting the MBE goal or subgoals, if applicable. If a certified MBE fails to meet the standards specified in State Finance and Procurement Article, 14-301.1, Annotated Code of Maryland, the payments made to the MBE can be recorded and counted under a contract entered into when the MBE was eligible and certified. Ineligibility of an MBE to participate in the MBE program may not be the sole cause of the termination of the MBE contractual relationship for the remainder of the term of the contract.
 - 12) Contractors are encouraged to seek additional MBE participation in their contracts during the life of the project. Any additional MBE participation from certified MBEs should be reported to the MBE liaison prior to initiation and should be included in subsequent monthly requisitions for payment.
 - 13) The contractor shall complete the Standard Monthly Contractor's Requisition for Payment (IAC/PSCP Form 306.4), specifically page 3 of 16, *Minority Business Enterprise Participation*, with each requisition submitted for payment. This submittal should accurately reflect the payments to be made that month to MBEs, and the cumulative total for the period specified. Any and all MBE firms that are identified on Attachment B should be included on page 3 of the first and all subsequent requisitions for payment. Any MBEs identified during the life of the project should be added as soon as the contractor engages them.
 - 14) At the completion of the project the contractor shall prepare a written summary of the final certified MBE participation in the contract as compared to the proposed participation at the time of contract award. This should include the name of each certified MBE, the percentage and amount that was anticipated to be paid at the time of contract award, the percentage and amount actually paid, and an explanation of any differences that have occurred. Special attention should be given to any situations where the final payments to any MBE were below the level of commitment at the time of contract award. The summary shall be forwarded to the LEA with the final requisition. The LEA shall include this documentation with the submittal of the close-out paperwork to the PSCP.
- c. Liquidated Damages – "All Contracts containing certified MBE participation goals shall contain a liquidated damages provision that applies if the contractor fails to comply with good faith with the provisions of State MBE laws or the pertinent terms of the procurement contract".
6. Projects Utilizing a Construction Manager Delivery Method
- This section of the procedure has been prepared based upon the utilization of Construction Manager Agency method of delivery. If another alternative method of project delivery is being considered, then these procedures would need to be adapted in consultation with the PSCP before proceeding.
- a. For projects that are being designed and solicited utilizing a Construction Manager Agency delivery method with multiple prime contracts, the school system can structure its procedures to attain the overall MBE goal and subgoals, if applicable, for the project as presented below:
 - b. The MBE liaison and other school system staff should work with the project's construction manager, cost estimator, and architect, along with any other individuals who could provide assistance, to determine the overall MBE utilization strategy for the work required, appropriate bid packages, and an appropriate overall MBE goal and subgoals, if applicable, for each specific bid or proposal package.
 - c. The overall MBE goal and subgoals, if applicable, for the project shall represent the aggregate of the individual goals and subgoals, if applicable, set for each bid or proposal package.
 - d. In setting the specific goals and subgoals, if applicable, for each solicitation package consideration should be given to the potential for MBE participation to the maximum extent possible. The information and procedures provided in section 4.0 MBE Goal Setting Procedures should be consulted and followed for these types of projects.
 - e. Prior to submitting the construction documents for State review and authorization to solicit bids or proposals, the school system's representative will prepare a complete list of the individual solicitation packages and indicate the MBE goal and subgoals, if applicable, for each solicitation package. This would include the overall MBE goal and subgoals, if applicable, established in the solicitation documents, the estimated cost for each solicitation package, and the estimated MBE dollar amounts for each solicitation package. A copy of this list should be submitted with the construction documents. The list should be retained as a record by the school system for comparison to the actual contracts awarded with MBE participation, and the final actual MBE participation at the completion of the project.
 - f. Contractors submitting bids or proposals for solicitation packages that do not include a MBE goal and subgoals, if applicable, would not be required to submit any of the MBE schedules that are otherwise required nor would they be required to indicate that they are requesting a waiver. The school system representative would, however, request information from the contractor at the completion of the project to determine if any certified MBE firms had participated in the contract.
 - g. All other submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of Attachments A and B as described in section 6.0. This includes the documentation for a request for a waiver, if applicable and appropriate.
7. Projects Utilizing an Indefinite Delivery/Indefinite Quantity (IDIQ) or Job Order Contracting (JOC) Method of Delivery
- a. The solicitation should be prepared and the overall MBE goal and subgoals, if applicable, established based upon the type of work that is anticipated to be specified or performed under the contract and the availability of certified MBEs. This could include an analysis of the percentages of the different types of work, the estimated dollar value in the entire contract, and the availability of MBEs.
 - b. If an overall goal and subgoals, if applicable, are set the bidders or offerors would be required to submit Attachment A –

- MDOT Certified Minority Business Enterprise Utilization and Fair Solicitation Affidavit in which they could indicate their anticipated MBE participation based upon the entire contract amount and the types of work specified. The award of contract can be made based upon their estimate of MBE participation since there is no specific task order or description of work to be performed and subcontractors have not been identified or engaged through any type of commitment or subcontract.
- c. Since MBE participation is only anticipated in a general sense as an objective and specific contracts to MBEs have not been signed, then the contract award would not be included in any reporting to the PSCP or subsequent reporting to GOMA.
 - d. However, as the contract proceeds and individual task orders and/or purchase orders are issued, the contractor should submit Attachment B – MBE Participation Schedule for any and all projects or work where MBE subcontractors and/or suppliers might reasonably be utilized. Discussions between the contractor or offeror and the LEA as the task orders and/or purchase orders are being developed should address this aspect of the contract requirements.
 - e. Any MBE participation should be recorded by the MBE liaison and reported to the PSCP as the task orders and/or purchase orders are approved.
 - f. The contractor shall complete the Standard Monthly Contractor's Requisition for Payment (IAC/PSCP FORM 306.4), specifically page 3 of 16, *Minority Business Enterprise Participation*, with each requisition submitted for payment. This submittal should accurately reflect the payments to be made that month to MBE S, and the cumulative total for the period specified. Any and all MBE firms that are identified on Attachment B – MBE Participation Schedule should be included on page 3 of the first and all subsequent requisitions for payment. Any MBEs identified during the life of the project should be added as soon as the contractor engages them.
 - g. At the completion of the contract period or the full utilization of the contract's value a report should be prepared by the LEA MBE Liaison and submitted to the PSCP summarizing the MBE participation in each and all of the task orders or purchase orders issued under the contract. This should include the anticipated MBE participation prior to the issuance of the solicitation, the MBE participation anticipated at the time of contract award and the actual MBE participation at the completion of the contract. The summary shall be forwarded to the LEA with the final requisition. The LEA shall include this documentation with the submittal of the close-out paperwork to the PSCP.
8. Projects Utilizing the Design/Build Delivery Method
- a. The solicitation is for both A/E services and the actual construction of a public school project. The solicitation should be prepared and the MBE goal and subgoals, if applicable, established for the construction work that is anticipated for the project. The goal setting procedures described in Section 4.0 above should be utilized for these types of projects.
 - b. The bidders or offerors should be required to submit Attachment A – MDOT Certified Minority Business Enterprise Utilization and Fair Solicitation Affidavit on which they would indicate their anticipated MBE participation based upon the construction work anticipated and their understanding of the MBE goal and subgoals, if applicable, the types of work involved, and the availability of certified MBEs for the project. Since there are no detailed plans or designs for the project and there are no contracts or subcontracts for the actual construction work there is no need to submit any other MBE schedules, at this time.
 - c. If the bidder, or offeror, who is to be awarded this contract has indicated that they do not anticipate achieving the overall MBE participation goal and subgoals, if applicable, for this project on Attachment A, then they are in effect requesting a waiver. They will be required to submit documentation at a later date to justify this request.
 - d. As the project proceeds through the design phase and the project is nearing the completion of the construction documents for submission to the State to review, the Design/Build Team (team) in consultation with LEA representatives should discuss the opportunities and potential for certified MBEs to participate in the project.
 - e. The team should begin to identify potential contractors and subcontractors, opportunities to segment the project, and MBEs that could participate in the project.
 - f. At a point in time that is approximately 30 days prior to the anticipated CD submission to the State; the team should complete and submit a revised Attachment B – MBE Participation Schedule to the LEA for their review and approval.
 - g. If the team had indicated on the Attachment A – MDOT Certified Minority Business Enterprise Utilization and Fair Solicitation Affidavit that they would meet the goals and the information on the revised Attachment B indicates that they did meet the goals then the team should proceed with the construction of the project.
 - h. If the team had indicated on the Attachment A that they did not anticipate meeting the overall MBE goal and subgoals, if applicable, or only a portion of the goal and subgoals, if applicable, then Attachment B – MBE Participation Schedule, Attachment C - Outreach Efforts Compliance Statement, Attachment E - Minority Subcontractors Unavailability Certificate, and Attachment F - MBE Waiver Documentation should be requested by the LEA. The team should, at this time, submit their documentation in support of the waiver requested.
 - i. The proposed MBE participation should be reviewed and a determination made as to whether the team has made a good faith effort to meet the MBE goals and subgoals, if applicable, established for the project and as stated on the Attachment A.
 - j. If a request for a waiver is made and approved, Attachment F - MBE Waiver Documentation should be signed by a school system representative and submitted to the PSCP and GOMA.
 - k. Since there was no MBE participation reported at the time of the award of the Design/Build contract, the LEA would submit the entire package of information, including all of the MBE related attachments to the PSCP within ten (10) days of the team being directed to proceed with the actual construction work.
 - l. All other submittals of MBE materials and reporting requirements are applicable for the project, as described above in Section 5.0.

7.0 RECORDS AND REPORTS

1. The MBE Liaison shall maintain such records as are necessary to confirm compliance with its Minority Business Enterprise Procedures and activities. The records shall be maintained until the project is audited by the PSCP. These records shall include by project:

- a. The contractor report submitted at the completion of the project;
 - b. The identity of the minority contractors employed on the project;
 - c. The type of work performed;
 - d. The actual dollar value of the work, services, supplies or equipment; and
 - e. The MBE percentage of the total contract.
2. The MBE Liaison will maintain a record of all waivers approved for each project or solicitation package where the prime contractor was unable to achieve the established overall goal or subgoals, if applicable. The MBE Liaison will, however, report to the PSCP all MBE participation by MDOT certified firms who are prime contractors, subcontractors, suppliers, or otherwise making an economically viable contribution to each project. This information shall be reported to PSCP within ten (10) days after approval of the award of the contract by the board of education.
 3. The LEA shall submit the "Certified Minority Business Enterprise Participation Standard Monthly Contractor's Requisition for Payment" (IAC/PSCP Form 306.4 page 3 of 16, located in the Administrative Procedures Guide), to the PSCP Director of Fiscal Services as part of the regular monthly request for payment for the project.
 4. The LEA shall submit the "Close-Out Cost Summary" (IAC/PSCP Form 306.6 located in the Administrative Procedures Guide), along with the "Certified Minority Business Enterprise Participation Standard Monthly Contractor's Requisition for Payment" (IAC/PSCP Form 306.4) to the PSCP Director of Fiscal Services within 180 days of completion of the project.
 - a. All final MBE payments should be verified by the LEA MBE Liaison before submission to the PSCP.
 5. Each quarter and at the end of each fiscal year end, the LEA will submit to the, PSCP Fiscal Services the monthly cumulative "Minority Business Enterprises Monthly Procurement Report GOMA MBE Forms 1 & 2" and maintain such records as are necessary to confirm compliance with its minority business enterprise procedures and activities.
 6. Each fiscal year end, PSCP Fiscal Services will create an annual report "Minority Business Enterprises Monthly Procurement Report GOMA MBE Forms 1 & 2" and Reporting Form #3 – Annual MBE Procurement Report Database – providing an accounting of payments made to MBE prime and MBE subcontractors. The LEA shall maintain such records as are necessary to confirm compliance with its Minority Business Enterprise Procedures and activities. These reports will compare the overall MBE goal and subgoals, if applicable, for each specific project with the MBE participation anticipated at the time of contract award and the actual MBE participation at the completion of the project.

8.0 MONITORING

1. The LEA's procurement personnel or project staff shall verify that the certified MBE's listed in the MBE participation schedule are actually performing the work.
2. The LEA's procurement personnel or project staff shall ensure that MBE subcontractors are receiving compensation as set forth in MBE participation schedule by ensuring that the contractor submits monthly reports, listing any unpaid invoices over 30 days old received from any certified MBE subcontractor, the amount of each invoice, and the reason payment has not been made.
3. PSCP Fiscal Services will:
 - a. Compile data on projects completed during the fiscal year;
 - b. Confirm that all MBE subcontractors listed in Attachment B have received payment; and
 - c. Maintain such records as are necessary to confirm compliance with its Minority Business Enterprise Procedures and activities.
3. The MBE Liaison and/or the PSCP will conduct reviews as deemed necessary to confirm compliance with the minority business enterprise participation requirements.
4. The MBE Liaison will maintain appropriate records, and shall assist the PSCP in on-site or post-audit reviews upon request.
5. Auditors from the PSCP will have access to and the ability to audit MBE participation for specific projects, information retained by the LEA, and/or submitted to the IAC in reports/forms filed by the LEA as referenced above.

9.0 MINORITY BUSINESS ENTERPRISE LIAISON

1. The Superintendent shall designate an individual to be identified as the MBE Liaison for the school system.
2. The MBE Liaison will be the contact person who will work with the PSCP and GOMA to implement the Minority Business Enterprise Program for the school system and the State of Maryland.
3. The Superintendent will immediately notify the PSCP if there is a change in the MBE Liaison for the school system.

Liquidated Damages Provision

(The Liquidated Damages provision applies to all contracts awarded on or after May 13, 2013.)

"Liquidated Damages." This contract requires the contractor to make good faith efforts to comply with the Minority Business Enterprise ("MBE") Program and contract provisions. The Owner and the Contractor acknowledge and agree that the Owner will incur damages, including but not limited to loss of goodwill, detrimental impact on economic development, and diversion of internal staff resources, if the Contractor does not make good faith efforts to comply with the requirements of the MBE Program and MBE contract provisions. The parties further acknowledge and agree that the damages the Owner might reasonably be anticipated to accrue as a result of such lack of compliance are difficult to ascertain with precision.

Therefore, upon a determination by the Owner that the Contractor failed to make good faith efforts to comply with one or more of the specified MBE Program requirements or contract provisions, the Contractor agrees to pay liquidated damages to the Owner at the rates set forth below. The Contractor expressly agrees that the Owner may withhold payment on any invoices as a set-off against liquidated damages owed. The Contractor further agrees that for each specified violation, the agreed upon liquidated damages are reasonably proximate to the loss the Owner is anticipated to incur as a result of such violation.

- a. Failure to submit each monthly payment report in full compliance with COMAR 21.11.03.13B (3): \$25.52 per day until the monthly report is submitted as required.
- b. Failure to include in its agreements with MBE subcontractors a provision requiring submission of payment reports in full compliance with COMAR 21.11.03.13B (4): \$89.33 per MBE subcontractor.
- c. Failure to comply with COMAR 21.11.03.12 in terminating, canceling, or changing the scope of work/value of a contract with an MBE subcontractor and/or amendment of the MBE participation schedule: the difference between the dollar value of the MBE participation commitment on the MBE participation schedule for that specific MBE firm and the dollar value of the work performed by that MBE firm for the contract.
- d. Failure to meet the Contractor's total MBE participation goal and sub goal commitments: the difference between the dollar value of the total MBE participation commitment on the
- e. [DO NOT INCLUDE IN CONTRACTS THAT ARE SUBJECT TO SECTION 15-226 OF THE OWNER FINANCE AND PROCUREMENT ARTICLE – CONSTRUCTION CONTRACTS – PROMPT PAYMENT OF SUBCONTRACTORS]. Failure to promptly pay all undisputed amounts to an MBE subcontractor in full compliance with the prompt payment provisions of this contract: \$100.00 per day until the undisputed amount due to the MBE subcontractor is paid.

Notwithstanding the use of liquidated damages, the Owner reserves the right to terminate the contract and exercise all other rights and remedies provided in the contract or by law.

CORPORATE DIVERSITY ADDENDUM

Effective August 18, 2022

Instructions: Pursuant to § 11-101 of the Tax-Property Article, certain entities must provide a Corporate Diversity Addendum, which contains certain diversity data specified by Code of Maryland Regulation (“COMAR”) 24.01.07. To determine whether you must provide the Corporate Diversity Addendum, please complete Worksheet A.

Failure to complete the Addendum or failure to meet the criteria therein, may prohibit you from receiving certain State benefits. For more information, refer to COMAR 24.01.07.

Please be aware, the information you include in the Corporate Diversity Addendum may be shared with other Maryland State agencies.

Worksheet A

1. Are you an entity that is required to be in good standing with the State Department of Assessments and Taxation (“SDAT”), and meets the following definition:

(1) A commercial enterprise or business that is formed in the State or registered with SDAT to do business in the State; or (2) a corporation, foundation, school, hospital, or other legal entity for which none of the net earnings inure to the benefit of any private shareholder or individual holding an interest in the entity?

☐ Yes – Proceed to Question 2

☐ No – STOP. You are not required to complete the Corporate Diversity Addendum. Complete Affidavit (I) on Page 2 and submit with the application for a State benefit.

2. Check the appropriate box if you are any of the following types of entities:

☐ Sole Proprietor

☐ Limited liability company (LLC) owned by a single member

☐ Privately held company if at least 75% of the company’s shareholders are family members

☐ Entity that (1) has an annual operating budget or annual sales less than \$5,000,000; and (2) has not qualified for or applied for, and does not intend to apply for, a State benefit, as defined below

Did you check at least one box?

☐ Yes – STOP. You are not required to complete the Corporate Diversity Addendum. Complete Affidavit (I) on Page 2 and submit with the application for a State benefit.

☐ No – Proceed to the Corporate Diversity Addendum on Page 3.

“State benefit” means (1) a State capital grant funding totaling \$1.0 million or more in a single fiscal year (July 1 – June 30); (2) State tax credits totaling \$1.0 million or more in a single fiscal year (July 1 – June 30); or (3) the receipt of a State contract with a total value of \$1.0 million or more. “State contract” means a contract that (a) resulted from a competitive procurement process and (b) is not federally funded in any way.

AFFIDAVIT (I)

UNDER PENALTIES OF PERJURY, I hereby swear that the entity submitting this report is not required to submit the Corporate Diversity Addendum.

Entity/Business Name: _____

Federal Employer Identification Number (FEIN): _____

SDAT Identification Number: _____

Name of Entity's representative completing this Affidavit (print clearly):

Title: _____

Signature: _____

Date: _____

CORPORATE DIVERSITY ADDENDUM

Instructions: If you are required to provide the Corporate Diversity Addendum, completing Affidavit (II) on Page 4 is mandatory. A response to both items is required. Failure to provide a complete response to either of the two items may render the entity ineligible for certain state benefits. For more information, refer to COMAR 24.01.07.

I. A response to Item I is required. However, the content of your response has no bearing on eligibility for State benefits. Select below the underrepresented communities which are represented on this entity's board or in executive leadership. Select all that apply.

- ☐ Alaska Native
- ☐ Asian-Pacific Islander
- ☐ Black or African-American
- ☐ Hispanic or Latino
- ☐ Native American
- ☐ Native Hawaiian
- ☐ One or more of the racial or ethnic groups listed above
- ☐ None of the above

II. Check the box next to the following Corporate Diversity indicators that pertain to this entity. Note that references to underrepresented communities refers to communities listed in Item I above. The examples provided are intended to be representative, not exclusive. Select all that apply.

1. ☐ Entity maintains written workforce diversity, equity, and inclusion ("DEI") policies.
2. ☐ Entity offers DEI training to its workforce.
3. ☐ Entity assigns a senior-level employee as responsible for oversight and direction of the entity's DEI efforts.
4. ☐ Entity reports performance of its workforce DEI programs on its website.
5. ☐ Entity includes DEI objectives in performance plans of its managers.
6. ☐ Entity publishes information on its website about its DEI commitments and efforts.
7. ☐ Entity provides career advancement training/opportunities for employees, including members of underrepresented communities.
8. ☐ Entity collaborates with educational institutions, or is an educational institution, serving significant or predominant student populations or affinity groups from underrepresented communities (e.g., career fairs, scholarships, internships, apprenticeships).
9. ☐ Entity has a supplier diversity policy that provides business opportunities to diverse suppliers, including businesses owned by members of underrepresented communities, such as State-certified Minority Business Enterprises ("MBEs").
10. ☐ Entity publicizes its procurement opportunities to encourage participation from businesses owned by members of underrepresented communities.
11. ☐ Entity measures percentage of contract dollars awarded to businesses owned by members of underrepresented communities, including MBEs.
12. ☐ Entity provides support and outreach to underrepresented communities and/or organizations that represent underrepresented communities.

Only entities that meet at least 33% (4) of the Corporate Diversity Indicators above, by checking all the applicable boxes, qualify to receive a State benefit.

AFFIDAVIT (II)

UNDER PENALTIES OF PERJURY, I declare that I have examined this Corporate Diversity Addendum, and to the best of my knowledge and belief, it is true, correct, and complete.

Entity/Business Name: _____

Federal Employer Identification Number (FEIN): _____

SDAT Identification Number: _____

Name of Entity's representative completing this Affidavit (print clearly):

Title: _____

Signature _____ Date _____

Penalties for Submitting False Information. If information provided by the entity in this form or by other means is materially false, the entity and the individual providing the false information may be subject to criminal prosecution for perjury, procurement fraud, and other crimes and may be subject to debarment, and all State benefits or contracts to the entity made in reliance upon the inaccurate form or other information may be void or subject to termination for default. See COMAR 24.01.07.

GENERAL WORK SCOPE – ALL PACKAGES

ALL TRADES ARE TO INCLUDE THE FOLLOWING AS PART OF BASE BID. All work is to be performed as shown on the plans and/or specified under the following sections. For specific scopes of work, contractors are to review their individual scope of work listed elsewhere within this specification section:

SECTION	NAME
00 31 19	EXISTING CONDITION INFORMATION ^{ADD#3}
00 90 00	LIST OF DRAWINGS ^{ADD#3}
<u>00 01 15</u>	<u>LIST OF DRAWINGS</u> ^{ADD#3}

DIVISION 0 – PROCUREMENT AND CONTRACTING REQUIREMENTS

00 11 13	ADVERTISEMENT FOR BIDS
00 11 14	IDENTIFICATIONS
00 21 13	INSTRUCTIONS TO BIDDERS
00 31 00	AVAILABLE PROJECT INFORMATION
<u>00 31 19</u>	<u>EXISTING DRAWING INFORMATION</u> ^{ADD#3}
00 41 00	BID FORM
00 43 13	BID SECURITY
00 43 30	CONTRACTOR QUALIFICATION STATEMENT
00 43 36	PROPOSED SUBCONTRACTORS FORM
00 43 37	SEX OFFENDER CERTIFICATION
00 43 38	REFERENCES
00 43 39	MINORITY BUSINESS ENTERPRISE
00 45 17	ANTI-BRIBERY AFFIDAVIT
00 45 18	CERTIFICATION REGARDING DEBARMENT
00 45 19	NON-COLLUSION AFFIDAVIT
00 45 27	LABOR RELATIONS
00 45 28	PREVAILING WAGE SECTION
00 45 30	UNSKILLED CONSTRUCTION LABORER'S WORK
00 61 13	PERFORMANCE AND PAYMENT BOND FORMS
00 61 14	BID BOND (AIA Document A310)
00 71 00	STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR
00 72 00	GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (AIA Document A201 - 2017 Edition)
00 73 00	ARTICLE 15 - SUPPLEMENTARY GENERAL CONDITIONS TO AIA Document A201 - 2017 Edition
00 80 00	PRELIMINARY CONSTRUCTION SCHEDULE
00 90 00	PRIME BID PACKAGE SCOPES

DIVISION 1 - GENERAL REQUIREMENTS

01 10 00	SUMMARY
01 21 00	ALLOWANCES
01 22 00	UNIT PRICES
01 23 00	ALTERNATE BIDS
01 25 00	SUBSTITUTION PROCEDURES
01 30 00	ADMINISTRATIVE REQUIREMENTS
01 31 14	FACILITY SERVICES COORDINATION
01 32 16	CONSTRUCTION PROGRESS SCHEDULE
01 35 13	SPECIAL PROJECT PROCEDURES FOR BUILDING ENCLOSURE
01 35 53	SECURITY PROCEDURES
01 40 00	QUALITY REQUIREMENTS
01 50 00	TEMPORARY FACILITIES AND CONTROLS
01 51 00	TEMPORARY UTILITIES

01 52 13	FIELD OFFICES AND SHEDS
01 55 00	VEHICULAR ACCESS AND PARKING
01 58 13	TEMPORARY PROJECT SIGNAGE
01 60 00	PRODUCT REQUIREMENTS
01 70 00	EXECUTION AND CLOSEOUT REQUIREMENTS
01 71 23	FIELD ENGINEERING
01 74 19	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
01 77 00	CLOSEOUT PROCEDURES
01 78 00	CLOSEOUT SUBMITTALS
01 79 00	DEMONSTRATION AND TRAINING
01 81 13	SUSTAINABLE DESIGN REQUIREMENTS
01 91 13	GENERAL COMMISSIONING REQUIREMENTS

Geotechnical Report issued by [ECS Mid Atlantic, LLC dated February 3, 2023, with addendum dated March 21, 2023](#) for informational purposes only.

In addition to items noted above, the Work includes AIA Documents A201 and A401, Division 00 Bidding Documents and Conditions of the Contract, and Division 01 General Requirements of the Project Manual. The Contractor is obligated to review and understand the work descriptions and responsibilities of all other Work Scope Categories. This Contractor along with its subcontractors is bound to the *HESS Safety Manual*. As well this contractor is to supply all weekly and daily documentation necessary, and or required by specification, for the administration of the [North East Middle/High School Replacement Project](#).

THE SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

BIM Coordination:

1. All Steel, Mechanical, Plumbing, Electrical and Fire Protection Trade Contractors will be required to prepare 3D coordination models compatible with the latest AutoCAD, Revit and Navisworks software. The Construction Manager shall manage the use of construction coordination models through the project Sharefile site. Each Trade Contractor shall be responsible for coordinating his work with each trade. However, the Mechanical Contractor will be responsible for leading the coordination process including running clash detection and producing clash reports. The Construction Manager shall play the role of the Quality Control Manager during this process.
2. Conflicts in the layout and sequencing of the work will be discussed and resolved in a series of periodic construction coordination meetings. Such meetings can be held via web conference if the Construction Manager approves. Coordination processes such as clash detection, submittals, trade sequencing, etc. shall be performed using the Construction Coordination model. The shop drawings submitted for records and approval must be generated from the Construction Coordination model.
3. After the review and approval of coordination in 3D, the Mechanical Contractor shall provide a Color Composite set of drawings. These drawings are separate from Shop Drawings and are merely an overlay of all trades (color coded) without the dimensions and labels. These drawings must be submitted digitally and two (2) sets of full-scale prints. Each trade contractor indicating their acceptance and approval of the indicated routings and layouts and their relationship with the adjoining or contiguous work of all contractors shall then sign off these final composite drawings.

Permits, Testing and Inspections:

1. Contractor shall coordinate with all jurisdictional agencies and inspectors.
2. Contractor shall perform all work to comply with the rules and the regulations of the governing bodies and state local laws. Contractor shall obtain all required bonds and permits, secure all inspections, and provide all tests and

certifications required by code. Contractor shall provide copies of all its permits and inspection certificates to the Construction Manager for their records.

3. This Contractor is responsible for providing the required testing and certification through an approved agency for all equipment assemblies that require a UL rating.
4. Provide start up services, testing, turnover and warranty of all materials and equipment, as per specifications. Submit a turnover plan as part of the submittal process indicating the equipment, testing, reporting and witnessing requirements.
5. Contractor shall participate in the commissioning per the specifications.
6. Contractor shall provide any and all trade certifications, licenses, and sign-offs required to secure any and all approvals, permits, and certifications.

Submittals:

1. CADD documents **may** be available for use by this Contractor for a fee TBD by the Architect. Contractor agrees to sign waiver and assumes all liability and understands this is solely for their beneficial use for preparation of BIM files, shop, and coordination drawings. Failure to provide CADD in a timely fashion does not relieve this contractor of responsibility of submission times dictated here-in. Any delay in construction due to a delay in the submittal and or procurement process will be this contractor's responsibility. All acceleration costs of subsequent trades will be the responsibility of this contractor.
2. Contractor shall provide all required submittals to the Construction Manager within thirty (30) days after issuance of a "Letter of Intent" or the Contract, whichever is issued first or sooner if necessary to avoid delay to work of all other Contractors. Contractor shall use a submittal cover sheet with all applicable required information completed, conforming and in accordance with the contract for [North East Middle/High School Replacement Project](#). No substitutions will be allowed without prior written approval by CCPS. Non-conformance submittals which are rejected shall not be cause for schedule delay.
3. Contractor to submit five (5) copies of all submittals for proper distribution to Architect, Consultants, Engineers and other Contractors. When applicable and at the sole discretion of the Construction Manager, electronic submittals may be utilized.

Safety:

1. Contractor shall be required to conduct his activities in a safe manner and shall be responsible for observing the safety regulations of ~~VM~~**MOSH** ^{ADD#3}, OSHA, and local life safety agencies. Contractor shall provide all necessary safety equipment, guardrails, barricades, and the like for full compliance. Contractor shall comply with any safety direction of the Construction Manager immediately and without recourse to additional cost.
2. Contractor shall furnish, install, provide, and maintain all traffic control (including flagmen) for this Contractor's work as required by the Contract Documents and/or governing authorities having jurisdiction over them.
3. Contractor shall furnish, install, and maintain all safety and/or warning signs as required for this work and/or per the direction of the authorities having jurisdiction over the work.
4. Contractor shall furnish, install, and maintain all fall protection and barricades, including toe boards, with its scaffolding systems and when working adjacent to edge of slabs.
5. **Contractor shall provide a written safety plan with Accident Hazard Analysis (AHA) for each of it's definable features of work within 30 days of notice of award for review/comment by the CM.** ^{ADD#3}

Bonds and Releases:

1. All Prime Contractors are to include a 100% performance bond and 100% payment bond from a surety company acceptable to the Owner and Construction Manager.
2. Contractor to include with first pay application detailed list of all second tier Contractors, suppliers etc. for those furnishing any hauling, labor or material over \$500 in value. From the second pay application through the completion of the project, second tier partial lien release(s) will be required to be submitted with the contractor's pay application as condition of payment. With contractor's final pay application, contractor must submit final second-tier supplier/Contractor lien release(s) as condition of payment.

Punchlist, As-Built, Warranties, O&M's and Closeout

1. Contractor shall maintain a set of as-built drawings as required by the contract documents. Contractor will also assist the Construction Manager with updating the Construction Manager's field as-built drawings. Contractor understands that as-built drawings will be checked on a weekly basis and will be reviewed as a prerequisite to requisition approval. Contractor shall submit two sets of final certified as-built drawings within ten (10) days following substantial completion to the Construction Manager. Contractor shall provide complete operation and maintenance manuals with spare parts list within ten (10) days following substantial completion to the Construction Manager. In addition to the required paper and pdf copies of as-builts required by specifications, the 05A, 21A, 23A and 26A contractors must submit final as-built BIM files within thirty (30) days of final project completion.
2. Contractor to participate in HESS' Punchlist Program. All final punchlist work developed by the Architect, Engineers, and Owner are to be completed with two weeks of receipt. All work to complete lists issued by HESS are to be complete within two weeks of receipt. Failure to perform in a timely fashion will result in HESS performing the work at your expense and will be backcharged accordingly. In addition to the cost of the work being backcharged, a fee of \$50 per day per item will also be assessed until the work is completed.
3. Contractor shall furnish and install touch-up paint at all equipment installed by this Contractor.
4. Contractor shall be responsible for all training requirements for all equipment and systems it has installed per the specifications. Contractor includes professional recording of all required training. Media to be provided within ten (10) days of final training session. In addition to the training requirements of respective specifications, contractor to include additional training of 10 hours per system installed, to be used at Owner's discretion. All additional training to be tracked via ticket basis, any unused hours will be credited back to the Owner.
5. Contractor shall be responsible for replacing and repairing at no cost to the Owner and/or the Construction Manager any work performed by this Contractor that is determined to be unacceptable to the Owner, Construction Manager, and/or applicable inspectors. In said event, the Contractor shall coordinate and prioritize its work as to eliminate impact to the project schedule.
6. Contractor warrants its work in accordance with the requirements of the specifications. If no guarantee or warranty is called out within the specifications, then the Contractor shall guarantee or warranty its work against deficiencies and defects in materials and/or workmanship for one (1) year from the date of substantial completion of all or a portion designated by the Construction Manager and Owner. Contractor shall furnish all operations manuals, maintenance manuals, cleaning instructions, supplier/manufacturer warranties, and the like for all work performed.
7. Contractor shall provide start up services, turnover, and warranty of all materials and equipment, as per specifications. Contractor shall submit a turnover plan as part of the submittal process indicating the equipment, testing, reporting and witnessing requirements

8. Contractor includes and agrees to create separate line items in the schedule of values to address Punchlist, General Clean Up and As-builts/Closeout Documentation. Dollar value will be based on overall value of contract in accordance with HESS' internal policy. Contractor can expect line items to range from 1%-3% of contract value. This is in addition to the retainage requirements of the contract. Monies will be released on a monthly basis, determined by contractor's performance in each respective category, similar to any other line item in the schedule of values.
9. Contractor to provide detailed list of all MEP equipment furnished under their respective contracts on the project including serial number(s) and room location, or above ceiling location. List to be provided within (10) days following substantial completion.
10. Contractor to include attic stock per the specifications. Contractor to submit list within 90 days of award the required attic stock per the specifications for review and approval by Construction Manager. Any materials originally intended for attic stock, which were used during project completion, will be replaced at no charge to the owner within 4 weeks following substantial completion. All attic stock will be given in full packaging. Where specifications call for a percentage, material will be rounded up to the next full package. Opened material will not be accepted for attic stock.

Clean Up:

1. The Contractor shall provide daily clean-up and disposal of all trash, debris, and excess material generated by this work. Means and Methods shall be as required within the Construction Manager's Waste Management Plan for the Project. Should the Contractor's cleanup be unsatisfactory, the Construction Manager shall perform the work at the Contractor's expense.
2. Contracts which exceed \$150,000 in value will be required to dedicate one person per eight workers onsite to be dedicated to project composite cleanup crew. Composite cleanup will be performed one day per week, typically Fridays, for 8 hours. This is in addition to your daily required cleanup efforts. At each weekly foreman's meeting, the HESS superintendent will choose which contractor is to take the lead in directing the crew each week. Contractors are responsible for providing brooms, sweeping compound, mops, shop vacuums, trash cans etc.
3. When performing cleaning work, use only approved HEPA type vacuum units. No "blowing out" (pressure cleaning) will be allowed.
4. Contractor shall be responsible for all street cleaning as necessary for dirt and debris that may be generated by its trucks and/or equipment and including this Contractor's suppliers and Contractors. This Contractor shall make provisions to provide at a minimum one laborer to be used at the discretion of the Construction Manager to keep the streets clean during the time period in which this Contractor has trucks, equipment, and/or deliveries (including those of its suppliers and sub-Contractors) entering and leaving the job site.
5. Subcontractor acknowledges that all vehicles exiting the jobsite must sufficiently wash their own tires at the wash rack (wash rack and water source provided by 31A) to prevent mud/debris from entering the adjacent roads. Failure to do so will result in back charges against this subcontract for related roadway clean-up costs. 31A contractor will have a man at the wash rack while they are on site, but for times when they are not, all contractors will be responsible for their own delivery trucks.

Schedule:

1. This work shall be performed in accordance with the schedule as updated irrespective of the amount of overtime or level of manpower required. The Contractor shall not be entitled to any damages or other compensation from the Owner or Construction Manager by reason of delay or interruption of its work caused by other Contractors working on the project, weather impact, permit issuance, or Owner related delays. Incorporated into the project

schedule are days for inclement weather. The Owner or Construction Manager will not be charged for any incidental stand-by-time by the Contractor, or any of its agents, sub-Contractors, suppliers, vendors, or deliveries.

2. The Construction Manager has developed a CPM Schedule. To help coordinate activities, the Trade Contractor and the Construction Manager will meet within twenty (20) days of execution of this contract. The meeting will discuss specific start dates, durations, and eliminating potential schedule conflicts. This schedule will reflect commencement, completion, and any milestone dates established elsewhere in the Contract Documents.
3. Contractor to submit for review and approval an Execution plan for each item of work provided under this contract. Contractor to compare with the CPM schedule for the project and notify any discrepancy in writing to allow for CM to properly adjust, when necessary and allowable, to the CPM schedule. Execution plan is due within twenty (20) days of issuance of "Letter of Intent" or "Contract", whichever is issued first. Contractor acknowledges specified laydown, staging, etc. areas may have to be adjusted/relocated during construction, Contractor agrees to comply at no additional cost to Construction Manager or the Owner
4. **Major trades (03A, 04A, 05A, 06A, 07A, 08B, 09B, 21A, 23A, 26A and 31A) acknowledge and have accounted for within the bid, the second and fourth Saturdays of each month are required workdays with the same size crew used Monday through Friday. No exceptions.**
5. The Trade Contractor agrees that if, in the good faith judgment of the Construction Manager, the Contract completion date will not be met, the Trade Contractor shall immediately, without any further direction, take any and/or all of the following actions and any other additional actions as otherwise directed by the Construction Manager, necessary to insure timely completion, at no additional cost to the Construction Manager and/or Owner.
 - a) Increase the Trade Contractor's workforce in such quantities and crafts that will ensure, in the good faith judgment of the Construction Manager, timely completion of the Contract completion dates.
 - b) Increase the number of working hours per shift, shifts working per day, working days per week, the amount of construction equipment, and/or any combination thereof, that will ensure, in the good faith judgment of the Construction Manager, timely completion of the Contract completion dates.
 - c) Reschedule activities to achieve maximum practical concurrency of accomplishment of activities that will insure, in the good faith judgment of the Construction Manager, timely completion of the Contract completion dates.

Miscellaneous Scope:

1. Contractor shall provide layout, engineering, and coordination with other trades.
2. Contractor's price includes cost increase in material prices during the project and shall not be compensated for the cost increase.
3. Contractor shall be required to carefully review all alternate proposal requests contained within the Contract Documents. Contractor shall provide costs for all work contained in the alternates, associated and/or specifically indicated as part of the Contract Package. Contractor shall be responsible for providing all such work upon acceptance of the alternates by the Owner.
4. ~~The Construction Manager will establish approximately 30 building corners, 6 control lines (3 each direction) and four (4) benchmarks. This service by the Construction Manager will be provided as a one-time service and future stake-out required for stakes that have been damaged or removed by this Contractor will be performed at an extra cost to this Contractor. Stake-out which is lost due to delay by Contractor to mobilize will be reestablished at Contractor's cost. The Contractor shall provide all additional stake-out and survey work required to complete this Contractor's work as required by the Contract Documents. Any other surveying to perform this work will be at this contractor's expense. All site utility work must be certified by the Engineer of Record at the installation contractor's expense.~~ ^{ADD#3}

5. Contractor shall survey existing conditions and notify the Construction Manager of any discrepancy before the Contractor's work starts. Start of work shall constitute this Contractor's acceptance of the existing conditions.
6. Contractor is responsible for providing a complete and operational scope of work in accordance with the Contract Documents and all state, county, and local authority having jurisdiction over the work.
7. Contractor has a full understanding and knowledge of contract documents and takes full responsibility for their implementation and coordination.
8. Contractor is responsible for dewatering all excavations created by this Contractor caused by any means including rainwater, run-off from perimeter properties, underground water, leaching water, underground streams, and the like. Contractor is responsible for cleaning of substrate which Contractor's work is to be applied to, i.e.... cleaning of footings in order to start masonry.
9. Multiple mobilizations may be required and are included within this Contractor's work.
10. If there are Owner, Construction Manager, or other trade furnished items that are to be installed by this Contractor, this Contractor must provide a minimum thirty (30) day written notice to the Construction Manager prior to the installation date of each item. The Contractor shall be liable for costs associated with the delay should this Contractor fail to meet this requirement. This Contractor shall schedule, receive, inspect, inventory, store, rig, and install all items furnished by others that are to be installed by this Contractor. Contractor is responsible at the time of delivery for the verification of these items for correctness and shall report any discrepancies in writing to the Construction Manager within forty-eight (48) hours. If discrepancies are not reported within that period, the Contractor shall be responsible for those items in its charge.
11. Contractor shall schedule all material and equipment deliveries through the Construction Manager. Contractor shall phase, sequence, deliver, and store their materials and equipment in a manner which provides full and continual access for all trades. Contractor to coordinate night work as required keeping continual access to the site with the Construction Manager.
12. Contractor shall maintain sufficient workforce levels to meet scheduling requirements and avoid delays to other phases of work.
13. Provide all supervision, to include a full time Superintendent/Foreman, labor, equipment, and materials to perform the work. Submit resume of the Superintendent/Foreman to the Construction Manager for approval prior to the start of work.
14. Contractor shall provide all trade certifications, licenses, and sign-offs required to secure all approvals, permits, and certifications.
15. If there is any conflict in the language between these contract documents and the Contractor's original cost proposal, the language of these contract documents shall prevail.
16. Contractor shall be responsible for the site/building in its charge. It shall protect adjacent and its own work and materials from soiling or damage.
17. Contractor shall submit alternate prices identified in the Bidding Documents, which pertain to their work. These alternate prices must be separate from their base bid on the Bid Proposal Form as described in Instructions to Bidders. If no price is applicable to work under this contract, the bidder must indicate \$0.00 bid amount for alternate category.

18. This contractor understands that other contractors may be on site during the work of this contract. Contractor agrees to make every effort to cooperate and coordinate the schedule of the work with that of the other Contractors as to not delay the project. Contractor shall coordinate daily with other Contractors and Construction Manager to avoid conflicts in installation. Correction or re-installation of work due to lack of coordination will be done at no cost to the Owner or Construction Manager.
19. In the event of a conflict between drawings or specified requirements, the Contractor will be responsible to provide the superior quality and/or quantity of product and installation.
20. Contractor shall furnish and install all access doors and frames in all walls, floors, and ceilings as required for its work under this contract whether they are indicated in the contract documents or not. Contractor shall coordinate the locations of all access doors with the Construction Manager.
21. Contractor includes all fire/smoke stopping, sound and/or weather sealants etc... at all penetrations required for own work.
22. Contractor is responsible for contacting and coordinating with Miss Utility and or a private utility locating company for locating and marking existing utilities if required to perform this work.
23. Contractor to submit a truck route plan within 30 days of notice of award. Strict adherence to the approved plan will be enforced. Complaints by the neighborhood will not be tolerated, contractor will be held accountable via backcharge of \$500 per complaint.
24. Coordinate all work with the work of others through the Construction Manager for proper function, time, and sequence to avoid delays in the work.
25. Contractor includes all temporary utilities, i.e. water and power, to perform its work as permanent utilities may not be available.
26. Contractor shall coordinate with all other trades regarding built-in and embedded items required by the Contract Documents
27. Contractor shall furnish and install covering and protection for all equipment provided or installed by this Contractor.
28. Contractor shall provide for all its material deliveries, hoist equipment with operators, hot/cold weather protection (including tenting, heaters, and enclosures), scaffolding, and related items needed for work to proceed expeditiously, and without interruption.
29. Contractor shall furnish and install all waterproofing and counterflashing of its work when it penetrates the completed roof system, walls, and any other weather barrier surfaces. Any work performed by other contractors in having to go behind and make this contractor's penetrations weather-tight will be back-charged to this contractor.
30. Contractor shall include material and labor cost increases for the project's duration.
31. In the event this contractor is to install items furnished by others, Construction Manager or Owner, installing contractor is expected and has included unloading, uncrating, distribution, cleanup of associated trash, hoisting, etc. All required miscellaneous scope to install said item of work.
32. **The work identified in each trade package scope applies to the main NEMHS building and each outbuilding. The outbuildings include.**^{ADD#3}
 - A. **Concessions Building**^{ADD#3}

- B. **Ticket Booth**^{ADD#3}
- C. **Four (4) Dugouts**^{ADD#3}
- D. **Two (2) Geothermal Pump Buildings**^{ADD#3}
- E. **Existing Field House**^{ADD#3}
- F. **Greenhouse Building (alternate)**^{ADD#3}

SPECIAL CONSIDERATIONS:

1. Jobsite hours are as follows:
 - a. Monday thru Friday – 7:00am to 4:00pm
 - b. Saturday – 9:00am to 3:30pm
 - c. Sundays – 9:00 am to 3:30pm (as coordinated with Construction Manager)
2. Strict adherence to Cecil County's Noise Ordinances.
3. Contractors' supervisor is required to attend weekly foreman's meetings at the project site beginning two weeks prior to the start of the trades work through the completion of the work. Meetings are mandatory and will cover schedule, material delivery, trade coordination, safety, etc. Failure to attend a scheduled meeting will result in a \$250 backcharge per occurrence.
4. Contractors Project Manager is required to attend monthly Project Managers' meeting at the project site beginning two weeks prior to the start of the trades work through the completion of the work. Meetings are mandatory and will cover submittals, change orders, RFIs, material delivery, monthly requisitions, schedule, closeout plans, etc. Failure to attend a scheduled meeting will result in a \$1000 backcharge per occurrence.
5. Excavation and/or drilling work under this contract is **unclassified to design sub-grade**, and includes but not limited to, excavation and removal of soil, shale, rock, fill, abandoned utilities, abandoned tanks, abandoned wells, abandoned structures, and any and all other subsurface conditions encountered in the contract area **to this trades lowest design elevation in same area**. The Contractor shall make his own soil and subsurface investigations, examination, tests, and exploratory borings of existing subsurface conditions to determine the nature of the soil conditions underlying the project site and thereby assuming all responsibility in excavating for this project without recourse to subsurface information obtained from the engineer, or indirectly from the Owner. The risk of unanticipated soil conditions **from current elevations to this trades lowest design elevation in same area** is solely the Contractor's. No extra or additional compensation for excavation or claim otherwise will be made or paid under this contract **until added excavations below this trades lowest design elevation in same area is required**. Contractor is responsible for furnishing and placing any import fill material that may be required to complete the work.
6. Contractor is responsible for providing full-time competent supervision while working onsite for all its forces, its 2nd-tier contractors and/or suppliers. Contractor must submit resume of proposed project manager and field supervisor for review before project award. Contractor cannot remove approved individuals from project without prior written consent of Construction Manager.
7. Contractor expressly warrants and covenants that it will comply fully with Maryland law and prime contract requirements with respect to the mandatory restrictions on registered sex offenders performing work on school system property. Such restrictions require the Contractor to certify that no employee, subcontractor, subcontractor employee, or material supplier who is a registered sex offender shall be allowed to enter onto school property at any time in the performance of the work or services for which this contract is awarded.
8. The Contractor certifies that they will follow the above requirements. Contractor will be fully responsible to the Owner and Construction Manager for any loss, damage, claim, or harm, including attorneys' fees, incurred by or threatened against the Owner and Construction Manager arising in connection with any violation of the mandatory restrictions on registered sex offenders as stated above. The Owner and Construction Manager

reserves the right to demand evidence of compliance, including copies of background checks for any employee, agent, vendor, supplier, consultant or other individual whom the Contractor has employed or contracted at any time during the performance of this agreement. The Owner and Construction Manager reserves the right to demand the immediate removal from the project site of any such individual for whom evidence of compliance cannot be produced. Contractor will not be entitled to any extensions of time or additional cost associated with the removal of any individual(s) pursuant to this provision. Notwithstanding anything to the contrary, Contractor is fully and solely responsible for compliance with the registered sex offender mandatory restrictions and certifications included in this agreement.

9. Prior to working onsite, all Contractor workers are to report with respective foreman or superintendent to be issued Hard Hat Sticker. A copy of the issued sticker along with workers photo ID will be taken for security purposes. It is the respective Contractors responsibility to ensure each worker has a Hard Hat with the ID sticker for identification purposes. Failure to follow this policy after written notice will result in employee being removed from project and is not grounds for schedule delay.
10. All Contractors shall utilize "Autodesk", the Construction Manager's online Project Management software. There is no additional cost to the Contractor and the Construction Manager will provide access. All cost implications for any changes are to be submitted through Procore's RFQ tool. The Construction Manager shall send out an RFQ when change documentation is generated, and the Contractor is to respond with appropriate backup through Procore.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs unless specifically called for in **their specific** scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents

END OF GENERAL WORK SCOPE – ALL PACKAGES

WORK SCOPE CATEGORY 03A CONCRETE

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all [Concrete](#) work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

SECTION	NAME
03 10 00	CONCRETE FORMING AND ACCESSORIES
03 20 00	CONCRETE REINFORCING
03 30 00	CAST-IN-PLACE CONCRETE
03 35 13	HIGH-TOLERANCE CONCRETE FLOOR FINISHING
03 35 46.23	CONCRETE FLOOR ENHANCEMENT (for coordination purposes)
03 39 00	CONCRETE CURING
07 11 13	BITUMINOUS DAMPPROOFING
07 13 00	SHEET WATERPROOFING <i>(as it relates to this scope)</i> ^{ADD#3}
07 14 16	COLD FLUID-APPLIED WATERPROOFING
07 18 00	TRAFFIC COATING (for coordination purposes)
07 21 00	THERMAL INSULATION (as it relates to this scope)
07 91 00	PREFORMED JOINT SEALS
07 92 00	JOINT SEALANTS
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (as it relates to this scope)
09 30 13	CERAMIC TILING (for coordination purposes)
09 64 29	WOOD FLOOR ASSEMBLIES (for coordination purposes)
09 64 66	WOOD ATHLETIC FLOORING (for coordination purposes)
09 65 10	HYBRID RESILIENT FLOORING (VCTT) (for coordination purposes)
09 65 16	RESILIENT SHEET FLOORING (for coordination purposes)
09 65 19	RESILIENT TILE FLOORING (for coordination purposes)
09 65 23	RESILIENT PERFORMANCE FLOORING (for coordination purposes) ^{ADD#3}
<u>09 65 16.23</u>	<u>COMMERCIAL SLIP RESISTANT RESILIENT SHEET VINYL FLOORING (for coordination purposes)</u> ^{ADD#3}
09 65 66	RESILIENT ATHLETIC FLOORING (for coordination purposes)
09 67 23	RESINOUS FLOORING (for coordination purposes)
09 68 13	TILE CARPETING (for coordination purposes)
10 50 00	LOCKERS (for coordination purposes)
10 56 26	STORAGE SPECIALTIES (for coordination purposes) ^{ADD#3}
11 40 00	FOOD SERVICE EQUIPMENT (for coordination purposes)
11 66 23	GYMNASIUM EQUIPMENT (for coordination purposes)
13 21 48	SOUND-CONDITIONED MUSIC PRACTICE ROOMS (for coordination purposes)
14 24 00	PASSENGER ELEVATORS (for coordination purposes)
14 42 00	WHEELCHAIR LIFTS (for coordination purposes)
31 20 00	EXCAVATION FILING AND GRADING (as it relates to this scope)
31 31 16	TERMITE CONTROL
DIVISION 22	PLUMBING inclusive (for coordination purposes)
DIVISION 26	ELECTRICAL inclusive (for coordination purposes)

Geotechnical Report issued by [ECS Mid Atlantic, LLC](#) dated February 3, 2023, with addendum dated March 21, 2023 for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Concrete Specific Scope:

- 1) Site Concrete and any concrete outside the building(s) perimeter is not part of this scope of work unless otherwise noted within this scope. All structures requiring a concrete footing or slab are provided by this contractor, including excavation and backfill.
- 2) Contractor to furnish and install two wash stations at the direction of the Construction Manager. Stations to be constructed out of pressure treated material and will be 35' in length and 10' wide.
- 3) Contractor to include excavation, concrete, rebar, and labor to pour temporary foundation for mockup panel(s).
- 4) Contractor shall seal and or apply hardener for all concrete called out to be sealed and or hardened per the contract documents. Under no circumstance unless specifically approved by Architect shall product be of a "wax" base. At areas to remain exposed, Contractor shall provide one additional coat and cleaning of surface prior to application, which will be applied just prior to substantial completion as directed by the Construction Manager.
- 5) Contractor shall furnish and install all concrete on metal floor and roof decks as required by the Contract Documents, including all temporary shoring and bracing required to support the load imposed by the Contractor's work and to prevent excess deflection of the structure. Contractor shall form all openings through decks and slabs as shown on the drawings and as required by others. Contractor shall grout all base plates. Contractor shall provide its own layout for any of its openings being formed.
- 6) Contractor shall apply termite control measures as required by the contract documents.
- 7) Contractor shall furnish and install all perimeter rigid insulation under slab on grade as required.
- 8) Contractor shall furnish and install all concrete work associated with exterior site features that require concrete ie... site sign and site walls. **Work shall include waterproofing, drainage board, drainage gravel, drain pipe, and filter fabric as indicated. Contractor shall furnish and install exterior stair nosings as indicated on L-dwgs. Contractor shall include backfilling as part of the work. Site features include, but are not limited to:** ^{ADD#3}
 - a) **Outbuildings:** ^{ADD#3}
 - i) **Two (2) Geothermal Pump Houses** ^{ADD#3}
 - ii) **Four (4) dugouts** ^{ADD#3}
 - iii) **Concessions Building** ^{ADD#3}
 - iv) **Ticket Booth** ^{ADD#3}
 - v) **Ex. Field House** ^{ADD#3}
 - vi) **Greenhouse (alternate)** ^{ADD#3}
 - b) **East Entrance - seat walls, stair cheek walls, stairs and retaining walls** ^{ADD#3}
 - c) **West Entrance/Amphitheater - retaining walls, cheek walls, seating, stair cheek walls, stairs and planter walls** ^{ADD#3}
 - d) **Stadium Entrance – seat walls, stair cheek walls, stairs mural wall (fnd & wall) and pillar wall foundations** ^{ADD#3}
 - e) **Outdoor Communal Areas – footings, walls, stair cheek walls and stairs** ^{ADD#3}
 - f) **Loading dock/South Courtyard – footings, walls, switchback ramp** ^{ADD#3}
 - g) **Dumpster Pad and Screen wall foundation** ^{ADD#3}
 - h) **Marquee Site Sign - foundation** ^{ADD#3}
 - i) **All other concrete site stairs and ramps throughout site.** ^{ADD#3}

- 9) Contractor shall coordinate, layout and protect threaded embedded items to prevent bending, deformation, and corrosion. Contractor shall repair or restore all damaged threaded embed items prior to commencement of steel erection.
- 10) Contractor shall furnish and install all locker bases, including embedded treated wood sleepers if applicable.
- 11) Contractor shall install only all anchor bolts, base plates, leveling plates, bearing plates, inserts, sleeves, clips, and reglets required by the Contract Documents. Contractor to include grouting of base plates. Diamonds are not to be poured until approved by 05A contractor. This contractor is responsible for the protection of the diamonds and shall provide a cover at each.
- 12) Contractor shall coordinate with Mechanical and Electrical Contractors to ensure all rough-ins are complete prior to slab, deck, and wall pours. Contractor shall coordinate with the Construction Manager regarding scheduling of all concrete pours. Contractor shall submit each week to the Construction Manager, in writing, a weekly pour schedule for coordination with other trades.
- 13) Contractor shall be responsible for all excavation and backfill work required for the installation of concrete foundations, walls, and slabs. Contractor shall provide all pumping, dewatering, temporary bracing and shoring for its concrete work and temporary protection necessary to complete its work, and as required by the Contract Documents. Contractor shall maintain foundations free of water, mud, and the like until masonry operations have commenced, at which time it becomes the mason's responsibility, until backfill operations commence in each area. Contractor shall be responsible for backfilling to sub-grade and compacting of interior and exterior foundations, slabs, and walls. Contractor shall be responsible for all fine grading required to perform all its work. The Contractor shall dispose of his excavation and/or grading spoils in a central location onsite as directed by the Construction Manager.
- 14) Contractor includes all reinforcing bar, wire, chairs, etc... for this work.
- 15) Contractor shall slope slabs to floor drains as required. Failure to properly slope to drain and all future corrective actions to obtain proper drainage will become this contractor's fiscal responsibility.
- 16) Contractor shall furnish and install all concrete within the building exterior perimeter, reinforcing, formwork, excavation, backfilling, fine grading, fill, gravel (including granular backfill and geofoam lightweight fill where called out), weep holes, water stops, sleeves, support chairs, concrete pumping, hot/cold weather protection and the like for all of the following:
 - i) footings / foundations,
 - ii) slabs-on-grade,
 - iii) elevated slabs / slabs-on-metal deck,
 - iv) interior walls,
 - v) piers,
 - vi) grade beams,
 - vii) slab haunches,
 - viii) housekeeping / equipment pads,
 - ix) Locker bases,
 - x) pits,
 - xi) elevator pits,
 - xii) interior stairs/ramps,
 - xiii) platforms and or stages,
 - xiv) loading dock (including stairs),
 - xv) concrete retaining walls,
 - xvi) slab depressions, note some depressions will be only if alternates are accepted,

- xvii) mechanical yards,
 - xviii) and any other building concrete item called out within the drawings and specifications.
- 17) Contractor shall furnish and install the fine grading, gravel, vapor barrier and retarders, expansion joints, control joints, including all required scoring patterns for all slabs. Contractor is to provide slab edge assembly per UL# FW-D-0036 where required.
- 18) Contractor shall furnish and install all concrete and reinforcing steel for all pipe penetrations that penetrate its work per structural details. Contractor acknowledges steel sleeves for pipe penetrations through floor slabs extend above finish floor elevation at least two inches and includes all costs associated with properly hand finishing around said sleeves. This contractor is responsible for ensuring that sleeves are maintained at the correct elevation.
- 19) Contractor to protect CMU walls and/or adjacent finishes from splashing caused by concrete placement. If concrete splashes on CMU walls and/or adjacent finishes, the Contractor shall remove the splashed concrete.
- 20) Contractor shall provide as-built elevations shots of the slabs, platforms, ramps, and any other items installed by this Contractor including anchor bolts and leveling plates. Contractor shall provide as-built elevations of all top of footing elevations. Contractor shall provide this as- built information within forty-eight (48) hours after concrete has been poured. Once survey is completed in an area, contractor shall correct all deficiencies found within 24 hours to avoid project delays.
- 21) Contractor shall provide all hoisting required for its work.
- 22) Contractor shall supply and install all concrete and reinforcing mesh at all metal pan stairs and metal stair landings. Contractor to remove all over pour on underside of stairs to allow for painting. Include wash down of cleaning or protecting agents to allow painting operation to begin.
- 23) Contractor shall complete the installation of all anchor bolts and leveling plates promptly upon completion of supporting foundations in each building area.
- 24) Contractor shall provide for all floor slabs to be level and ready to receive specified floor finish. Contractor shall coordinate ~~sealers, hardeners, etc...~~ ^{ADD#3} with finish schedule to properly achieve this.
- 25) Contractor shall grade all backfill so that water runs away from any building structure.
- 26) Contractor shall furnish and install all necessary formwork, construction joints, diamond joints, control joints, isolation joints, expansion joints, waterproof seals, welded wire fabric, removable plastic or hardboard pre-formed strips, roofing felts, and vapor barriers. Contractor to carefully layout construction joints and control joints with finish schedule to allow for patterns to match architectural layout. All expansion joint material is to be of the "zip cap" variety.
- 27) Contractor shall furnish and install all moisture retaining covers and curing compounds as required to complete its work and to not delay future trades. This is to be closely coordinated with future floor finish requirements.
- 28) Contractor shall rub and finish all exposed concrete walls installed by this contractor.
- 29) Contractor shall provide for all excavation and backfill of own work.
- 30) Contractor to coordinate building retaining walls with earthwork contractor. This contractor shall install all cast-in-place concrete walls throughout the building and site including waterproofing systems, drainage systems, under drain systems, connections to storm systems where applicable, accessories, adhesives, backfill, final grading etc... for a complete system. Backfilling the walls will be the responsibility of this contractor with adequate material furnished in proximity by the 31A contractor.

- 31) Contractor shall provide stamped engineered shop drawings for all form work as required by the specifications or LJA.
- 32) Contractor includes installation and maintenance of fall protection and toeboards at slab block outs, toeboards at elevated slab perimeter and diamonds as necessary. Contractor to coordinate with masonry and steel contractor for removal of protection to allow for installation of their work.
- 33) Contractor includes below grade waterproofing of all below grade walls such as elevator pits, retaining walls where required at below grade walls. **Contractor shall provide waterproofing/dampproofing where called for on concrete substrates.** ^{ADD#3}
- 34) Contractor includes caulking of own work, inclusive of plastic "zip cap" type expansion material for clean sealant joint.
- 35) Contractor has all costs associated with performing this scope of work in winter and summer conditions.
- 36) Contractor shall include all concrete required for the site sign, pump houses, mechanical and dumpster screen walls, ticket booth and concession building.
- 37) **Contractor shall furnish and install stair nosings for exterior (site) stairs as noted on L-dwgs. Contractor shall install aluminum stair nosings that are furnished by the 05A Contractor for stairs inside the building as detailed on A505 and A506.** ^{ADD#3}

SPECIAL CONSIDERATIONS:

1. The Construction Manager has assumed slab on grade will be placed in no more than twenty pours. In the event Contractor requires more than twenty pours, Contractor to arrange with Construction Manager's Testing Agency for performance of floor levelness and floor flatness testing for all pours past pour twenty. All costs for this additional testing are the responsibility of this Contractor. Failure to properly coordinate the additional testing will result in the Construction Manager performing this service at the Contractor's expense.
2. Contractor is responsible for all FF and FL requirements.
3. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. The contractor is expected to provide a crew of the same size that is provided during Monday through Friday. No exceptions.**
4. This bid package has an MBE goal of _10_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, must try to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs, unless specifically called for in this scope, are a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 03A

WORK SCOPE CATEGORY 04A - Masonry

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all [Masonry](#) work in accordance with the specifications, drawings, and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

SECTION	NAME
04 20 00	UNIT MASONRY
04 72 00	CAST STONE MASONRY
05 12 00	STRUCTURAL STEEL FRAMING (for coordination purposes)
05 12 13	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING (for coordination purposes)
05 21 00	STEEL JOIST FRAMING (for coordination purposes)
05 50 00	METAL FABRICATIONS (for coordination purposes)
05 51 13	METAL PAN STAIRS (for coordination purposes)
05 52 13	PIPE AND TUBE RAILINGS (for coordination purposes)
05 71 00	DECORATIVE METAL STAIRS (for coordination purposes) ADD#3
05 73 00	DECORATIVE METAL RAILINGS (for coordination purposes)
07 11 13	BITUMINOUS DAMPPROOFING
<u>07 13 00</u>	<u>SHEET WATERPROOFING (as it relates to this scope)</u> ADD#3
<u>07 14 16</u>	<u>COLD FLUID APPLIED WATERPROOFING (as it relates to this scope)</u> ADD#3
07 21 00	THERMAL INSULATION (as it relates to this scope)
07 21 60	STRUCTURAL THERMAL BREAK (as it relates to this scope) ADD#3
07 27 26	FLUID-APPLIED MEMBRANE AIR BARRIERS
07 62 00	SHEET METAL FLASHING AND TRIM (as it relates to this scope)
07 84 13	PENETRATION FIRESTOPPING (as it relates to this scope)
07 84 43	JOINT FIRESTOPPING (as it relates to this scope)
07 91 00	PREFORMED JOINT SEALS (as it relates to this scope)
07 92 00	JOINT SEALANTS (as it relates to this scope)
07 92 19	ACOUSTICAL JOINT SEALANTS (as it relates to this scope)
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (as it relates to this scope)
08 11 13	HOLLOW METAL DOORS AND FRAMES (as it relates to this scope)
08 31 13	ACCESS DOORS AND PANELS (as it relates to this scope)
14 24 00	PASSENGER ELEVATORS (for coordination purposes)

Geotechnical Report issued by [ECS Mid Atlantic, LLC](#) dated [February 3, 2023](#), with addendum dated [March 21, 2023](#), for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as not to misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Masonry Specific Scope:

1. Contractor includes full mockup panel for craftsmanship for Architect/Owner review and approval. Once approved, the mockup will be the standard for installation.

2. Contractor shall furnish and install all masonry work required by the Contract Documents, including, but not limited to, all brick, block, architectural pre-cast concrete (plant cast), shear walls, glazed block, ground face, split face, mortar, grout, masonry fill, parging, mortar washes, masonry reinforcement (vertical and horizontal), masonry and cast stone steel reinforcement bars, joint reinforcement, masonry lintels, ties and masonry anchors, point up, insulation (mineral wool, compressible, rigid, perlite, and the like for sound ratings) contiguous to this Contractor's work, masonry fire walls, masonry portal frame columns, column isolation, isolation strips, building paper, flashing, pre-molded control joints, weeps, flashings, mortar netting, samples, mock-ups, masonry cleaners, sealers, and dampproofing and/or waterproofing, spray and roll on vapor or air barrier, head of wall fireproofing, elevated slab edge to masonry wall fireproofing, and or smoke barriers, interior and exterior control joint caulking, final cleaning and washdown inclusive of louvers, window, curtainwall, storefront frame and glass protection and all other items required for a complete Masonry scope of work.
3. Contractor shall install only all loose angle lintels, beam lintels, anchor bolts (embedded in masonry) bolted structural steel, structural angles, structural tubing (anchors furnished by others) attached to masonry, and the like that are supplied by others. Contractor to include installation of elevator hoist beam. Contractor shall grout all bearing/leveling plates at all CMU walls. Contractor shall install all angles that are to be bolted to the CMU; this contractor shall furnish the epoxy material while all other items will be furnished by the 05A contractor.
4. Contractor shall coordinate the install of all hollow metal frames located within masonry walls furnished by the 06A contractor and set by the 06A contractor. This contractor shall ensure hollow metal frames remain installed plumb, level, square, and true to line until the frame is completely enclosed in masonry. Contractor shall be responsible for any repair or damage costs to the hollow metal frames.
5. Contractor shall furnish and install all masonry work associated with exterior site features that require masonry ie... site sign and site walls.
6. Contractor shall furnish and install all build in place expansion joints (rated, non-rated, expand-o flash joint covers, and the like) and accessories located at and within interior and exterior masonry walls.
7. Contractor includes furnish and install all Knox boxes located within masonry walls. Contractor to coordinate with local fire marshal for approval and installation. Type to be recessed and include decorative frame, finish bronze or equal.
8. Contractor shall be responsible for installation of all openings within masonry walls where required by other trades. Contractor shall provide adequate protection at designated openings for feeding of material to the building. Contractor shall remove the protection as directed by the Construction Manager.
9. Any wall penetration required by other trades which has a diameter or horizontal dimension greater than 12" shall require a lintel be installed. The majority of lintels will be masonry, contractor to refer to structural notes for requirements.
10. In the event an opening is required in a masonry wall and is not properly coordinated between the other trades and the 04A contractor, it is the other trades sole responsibility to implement the required fix. All other trades are required to perform layout of required openings as the walls progress. All costs to either saw-cut, or tooth cmu to allow for the opening is the responsibility of the other trades. In the event this contractor has missed the indicated opening, or has miss-sized the opening, the costs required for the fix is the responsibility of this contractor.
11. Contractor shall furnish and install all grouting where required for hollow metal frames, bearing plates, sills, bond beams, wall reinforcing, and other areas that are required.
12. Contractor shall fill all openings, including top of wall conditions, at full height masonry walls and provide all fire-safing, fire stopping, insulation and/or fire resistive joint systems as required, inclusive of elevated slab edge conditions short of masonry walls.

13. Contractor shall provide several mixing stations and/or staging areas as needed for the phasing of the project. Contractor includes **three** relocation(s) of mixing station(s) and staging areas as required for construction sequencing/logistics per the direction of the Construction Manager.
14. Contractor will furnish and install all temporary wall bracing of masonry walls inclusive of braces and footings in accordance with MOSH standards and/or good practice. All masonry walls are to be braced at all times until steel joists and deck are set in place and inspected. Contractor to coordinate bracing with concrete contractor pour schedule. Contractor to provide engineered wall bracing drawings and calculations for record and coordination purposes.
15. Contractor shall perform all dewatering and mucking out as required to perform its work, including cleaning of footings.
16. Contractor shall coordinate with other trades to allow them to properly set items to be embedded in masonry.
17. Contractor shall scrape and washdown all walls and floors of excess materials generated by its work.
18. Contractor shall furnish and install all water and/or dampproofing that is applied to its work.
19. Contractor includes the installation of 1,000 LF of miscellaneous steel lintels, angles, and/or plates that may not be shown on the drawings but may be required during construction.
20. Contractor shall layout all CMU foundations and walls, elevations, and the like to complete its scope of work. Brick points will be provided by the 31A Contractor at no more than 25' intervals.
21. Contractor shall point up around all mechanical openings, electrical openings, sleeves, structural steel and the like located in masonry walls.
22. Contractor shall protect and maintain all architectural pre-cast concrete protection.
23. Contractor includes daily covering of head of wall conditions to prevent infiltration as required by owner. This includes areas where precast caps are set and not yet caulked due to weather conditions.
24. Contractor includes complete additional washdown prior to substantial completion to eliminate any efflorescence at no cost to the owner.
25. Contractor to include all temporary heating measures to perform all of its own work inclusive of tenting, heating, equipment and fuel.
26. Contractor to furnish and install all Architectural Precast Concrete (APC). Contractor includes engineered shop drawings and calculations for all APC. Contractor includes all inserts, attachment and anchorage devices/hardware, clips, angles, welding, and caulking for a complete installation of APC.
27. Contractor to coordinate with 06A, 21A, 23B and 26A contractor for installation of access doors furnished and installed by other contractors. This contractor to include cutting of all masonry to allow for installation of access doors by the 06A Contractor.
28. Contractor to furnish and install all exterior rigid and mineral wool insulation on masonry backup walls, including but limited to behind, brick, precast, cast stone and finish block areas. Contractor to coordinate with exterior framing being provided by 06A contractor.

29. Contractor shall include all masonry and architectural precast ^{ADD#3} required for the site sign, pump houses, mechanical and dumpster screen walls, Greenhouse (alt), dugouts, existing field House, mural wall, stadium entry pillars, ^{ADD#3} ticket booth and concession building.

Responsibilities for Typical Parapet Walls

1. Responsibilities for Typical Parapet at CMU Back-up, Details D5, A5 /A431 (and other typical details) are assigned below:

- a) 04A – Air barrier, continuous air barrier transition membrane, rigid insulation, CMU, brick veneer and attachments. Install anchor bolts furnished by the 05A Contractor.
- b) 06A - Exterior fire rated plywood sheathing and blocking at top of parapet. Exterior fire rated plywood sheathing and blocking at both sides of parapet (if indicated), 2X wood blocking where required, batt insulation.
- c) 05A - Furnish anchor bolts to 04A.
- d) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1 /4” cover board over plywood.
- e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

2. Responsibilities for Typical Metal Panel Parapet at CMU Back-up, Details D5, A5 /A432, (and other typical details) are assigned below:

- a) 04A – Air barrier and continuous air barrier overlapping transition membrane. CMU. Rigid foam insulation. Mineral wool insulation. Install anchor bolts furnished by the 05A Contractor. Cont. STPE Sealant at termination bar. ~~Thermal break cladding support system~~ ^{ADD#3},
- b) 06A – Exterior fire rated plywood sheathing and blocking at top and sides of the parapet. Exterior fire rated plywood sheathing and blocking and rigid foam board insulation, ~~mineral wool insulation at side low roof (detail A14/A432)~~ ^{ADD#3}. 2X wood blocking where required,
- c) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1 /4” cover board over plywood. All flashings and counter-flashings.
- d) 07B – Metal panel system, thermal break cladding, mineral wool insulation at side low roof (~~see detail D14, A14/A432~~) ^{ADD#3}, continuous air barrier transition membrane, 2-piece prefinished aluminum metal panel base, 18 GA Min galvanized sheet metal 05A –Furnish anchor bolts to 04A.
- e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

3. Responsibilities for Typical Parapet at Stud Wall Back-up, Details D9 & A9 /A431, (and other typical details) are assigned below:

- a) 04A – ~~Continuous air barrier transition membrane and air barrier over 5/8” exterior gypsum sheathing.~~ Rigid board insulation ~~Foamed in place insulation.~~ ^{ADD#3} Brick veneer and attachments.
- b) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. 1 /4” cover board over plywood.
- c) 06A – CFMF, batt insulation, 5/8” exterior gypsum sheathing, 5/8” exterior fire rated plywood sheathing, 2X wood blocking, 3/4” and 1/2” plywood on top of parapet, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier over 5/8” exterior gypsum sheathing. ^{ADD#3}
- d) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

4. Responsibilities for Typical Metal Panel Parapet at Stud Wall Back-up, Details D9 & A9 /A432 (and other typical details) are assigned below:

- ~~a) 04A – Continuous air barrier transition membrane and air barrier over 5/8” exterior gypsum sheathing, insulation.~~ ^{ADD#3}
- b) 06A - Exterior fire rated plywood sheathing and blocking at top of the parapet and side of wall, CFMF, batt insulation, 5/8” exterior gypsum sheathing all blocking, 3/4” and 1/2” plywood, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier ~~mineral wool insulation.~~ ^{ADD#3}
- c) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. ~~3” cladding support system, metal panel system~~ ^{ADD#3}. 1 1/4” cover board over plywood.
- d) 05A – Furnish and install continuous galvanized steel bent plate at top of parapet wall.
- e) 07B – Metal panel system, thermal break cladding, mineral wool insulation ~~at side low roof~~ (detail D9 & A9/A432), ~~continuous air barrier transition membrane,~~ ^{ADD#3} 2-piece prefinished aluminum metal panel base,
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

5. Responsibilities for Typical Low Roof Studs w/ Metal Panel, Details D18 & A18 /A432 (and other typical details) are assigned below:

- ~~a) 04A – Continuous air barrier overlapping transition membrane over 5/8” exterior gypsum sheathing. Foamed in place insulation.~~ ^{ADD#3}
- b) 06A – 3” rigid foam insulation, exterior fire rated plywood sheathing and blocking, rigid foam board insulation and mineral wool insulation below blocking, CFMF, batt insulation, 5/8” exterior gypsum sheathing, galvanized sheet metal angle, continuous air barrier and transition membrane. ^{ADD#3}
- d) 07A –All flashings and counter-flashings (to include the SS receiver and counterflashing). ~~Mineral wool insulation at bottom of panel.~~ ^{ADD#3} 1 1/4” cover board over plywood and adhered membrane flashing
- e) 07B – Metal panel system, thermal break cladding, thermal break cladding support system, continuous flexible flashing. ^{ADD#3} mineral wool insulation ~~at side low roof~~ (detail D14 & A14/A432), ~~continuous air barrier transition membrane~~ ^{ADD#3}, 2-piece prefinished aluminum metal panel base, continuous flexible flashing
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

SPECIAL CONSIDERATIONS:

1. In the event the contractor wishes to feed scaffolding without slabs being poured and the subgrade is disturbed, destroyed, rutted, becomes unsuitable, etc..., subgrade will be reestablished at this contractor's expense.
2. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. Contractor is expected to provide a crew of the same size that is provided during Monday through Friday. No exceptions.**
3. This bid package has an MBE goal of _10_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, must try to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs, unless specifically called for in this scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 04A

WORK SCOPE CATEGORY 05A - Steel

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all **Steel** work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

SECTION	NAME
00 91 00	BIM COORDINATION REQUIREMENTS
04 20 00	UNIT MASONRY ASSEMBLIES (for coordination purposes)
04 72 00	CAST STONE MASONRY (for coordination purposes)
05 12 00	STRUCTURAL STEEL FRAMING
05 12 13	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING
05 21 00	STEEL JOIST FRAMING
05 31 00	STEEL DECKING
05 50 00	METAL FABRICATIONS
05 51 13	METAL PAN STAIRS
05 51 40	FABRICATED SPIRAL STAIRS
05 52 13	PIPE AND TUBE RAILINGS
05 53 20	STAIR NOSINGS
05 73 00	DECORATIVE METAL RAILINGS
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (as it relates to this scope)
08 33 13	COILING COUNTER DOORS (for coordination purposes)
08 33 23	OVERHEAD COILING DOORS (for coordination purposes)
08 33 13	SECTIONAL DOORS (for coordination purposes) ADD#2
08 36 53	<u>VERTICALLY OPERATING SECTIONAL DOORS (For coordination purposes)</u> ADD#3
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS (for coordination purposes)
08 44 13	GLAZED ALUMINUM CURTAIN WALLS (for coordination purposes)
08 45 00	TRANSLUCENT SINGLE PANEL WALL CLADDING ASSEMBLIES (for coordination purposes)
08 91 19	FIXED LOUVERS (for coordination purposes)
09 91 23	INTERIOR PAINTING (for coordination purposes)
09 93 00	STAINING AND TRANSPARENT FINISHING (for coordination purposes)
09 96 00	HIGH-PERFORMANCE COATINGS (for coordination purposes)
10 00 05	MISCELLANEOUS SPECIALTIES (for coordination purposes)
10 11 00	VISUAL DISPLAY SURFACES (for coordination purposes)
10 21 13.19	PLASTIC TOILET COMPARTMENTS (for coordination purposes)
10 21 23	CUBICLE CURTAINS AND TRACK (for coordination purposes)
10 22 39	FOLDING PANEL PARTITIONS (for coordination purposes)
10 22 39.13	FOLDING GLASS PANEL PARTITIONS (for coordination purposes) ADD#3
10 56 26	STORAGE SPECIALTIES (for coordination purposes) ADD#3
<u>10 56 13</u>	<u>METAL STORAGE SHELVING (For coordination purposes)</u> ADD#3
10 73 10	PROTECTIVE COVERS (for coordination purposes)
11 00 05	MISCELLANEOUS EQUIPMENT (for coordination purposes)
11 40 00	FOOD SERVICE EQUIPMENT (for coordination purposes)
11 53 13	LABORATORY FUME HOODS (for coordination purposes)
11 61 33	RIGGING SYSTEMS AND CONTROLS (for coordination purposes)
11 61 43	STAGE CURTAINS (for coordination purposes)
11 66 23	GYMNASIUM EQUIPMENT (for coordination purposes)
11 66 53	GYMNASIUM DIVIDER (for coordination purposes)
13 21 48	SOUND-CONDITIONED MUSIC PRACTICE ROOMS (for coordination purposes)
13 34 13	GREENHOUSE AND GREENHOUSE RELATED EQUIPMENT (for coordination purposes)
14 24 00	PASSENGER ELEVATORS (for coordination purposes)
14 42 00	WHEELCHAIR LIFTS (for coordination purposes)

Geotechnical Report issued by [ECS Mid Atlantic, LLC dated February 3, 2023, with addendum dated March 21, 2023](#), for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Steel and Miscellaneous Metals Specific Scope:

1. As the Construction Manager, HESS shall manage the use of construction coordination models throughout the construction process. All BIM-related information shall be exchanged through the BIM FTP site managed by HESS. Each contractor shall be responsible to coordinate his work with each trade. However, the Mechanical contractor will be responsible to lead the coordination process. HESS shall play the role of the Quality Control Manager during this process. Utilizing design models created by A/E and fabrication/coordination models prepared and submitted by the listed trade contractors, HESS will maintain an up-to-date Federated model throughout the construction phase. The Federated model will be used to fully and properly coordinate and sequence the work of the trades, to maximize efficiencies during construction. Conflicts in the layout and sequencing of the work will be discussed and resolved in a series of periodic construction coordination meetings.

All Steel, Mechanical, Plumbing, Electrical and Fire Protection contractors will be required to prepare 3D coordination models compatible with latest AutoCAD and Navisworks software. For clash detection to work properly, all models shall have a common reference point which shall be derived from the Architectural Design Model. All costs shall be included in the contractors bid. Contract architectural, MEP and structural drawings (3D) will be available electronically from the designated FTP site. During the construction phase these individual fabrication models shall be combined to create a Federated Construction Coordination model. BIM processes such as clash detection, submittals, trade sequencing, etc. will be done using the Construction Coordination model. The shop drawings submitted for records and approval will be generated from the Construction Coordination model or from individual models therein. The Construction Coordination model will be updated and maintained throughout construction to create an accurate as-built digital record of the construction of the project. The as-built BIM will be conveyed to the Owner on completion of construction, as a tool to assist owner in facility operation and maintenance.

The Mechanical contractor will take the lead and develop a drawing list for approval by the Construction Manager subdividing the building into separate areas. The drawing list will be for submission and will indicate a submission schedule coordinated with the construction activities. The drawings shall be developed in a sequential fashion so as to not delay installation of the work or the overall project schedule. The Construction Manager shall prepare a schedule identifying the activity and duration of each submission. The Mechanical contractor will call meetings, weekly, or as required, which all required contractors must attend to avoid delay. Such meeting can be held via web conference if agreed upon mutually by all parties. Failure to attend will require the contractor to field run the work not coordinated. No extra compensation will be paid to any contractor for relocating any equipment, duct, pipe, conduit, or other material that has been installed without proper coordination. If the installation of any uncoordinated work or improper installation or coordinated work necessitates additional work by other contractors, the cost of such additional work shall be assessed to the contractor responsible as determined by the Construction Manager. Where conflicts are found in the Model, regardless of the phase of the Project or LOD, the discovering party shall promptly notify the Model Element Author(s). Upon such notification, the Model Element Author shall act promptly to mitigate the conflict. At the conclusion of each coordination phase, the Mechanical contractor will notify the Construction Manager whereupon an

onsite coordination meeting will be scheduled for the purpose of signing off on each respective area. After the review and approval of coordination in 3D, the Mechanical contractor shall provide one color composite set of drawings and forward them to the Construction Manager. In the preparation of all the final composite drawings, large scale details as well as cross and longitudinal sections shall be made as required to fully delineate all conditions. Particular attention shall be given to the locations, size and clearance dimensions of equipment items, shafts, and similar features. The final composite drawings shall include the locations of all controls, tie-ins, connections for other subcontractor's work, and pipe and duct insulation as required. Each trade contractor indicating their acceptance and approval of the indicated routings and layouts and their relationship with the adjoining or contiguous work of all contractors shall then sign off these final composite drawings. Therefore, no unauthorized deviations will be permitted. If deviations are made without the knowledge and agreement of the Construction Manager and other affected contractors, the work in question will be subject to removal and correction at no additional cost to the Owner.

2. After final composite drawings have been accepted and approved, the Mechanical contractor shall print one (1) color copy to be signed by all contractors. The Mechanical contractor shall provide the composite drawings digitally to all contractors through the HESS FTP site and will also submit two (2) set of prints for submittal purposes to the Construction Manager. The original signed off drawing shall be sent to the Construction Manager for permanent possession. No contractor will be authorized to release any material for fabrication or installation until the composite drawing(s) has been prepared and the signature process is executed and approved by the Construction Manager
3. Contractor shall review and comply fully with the Building Information Modeling (BIM) requirements detailed in specification section 00910 – BIM COORDINATION REQUIREMENTS.
4. Contractor shall furnish and install all structural steel, architectural exposed structural steel, steel joists, metal decking, nelson studs, column covers, decorative metal, decorative column covers, framing for all roof openings and penetrations, floor openings and penetrations, wall bracing, angles, sump pump frames/grates, bent plates, security gates, swing gates, metal pan stairs, alternating tread stairs, spiral stairs railings, handrails, guardrails, roof screen framing, galvanized metal pour stops, ~~swing hooks~~ ^{ADD#3}, accessories, architectural metals and miscellaneous metals. Contractor shall maintain adequate crews and cranes to meet construction schedule.
5. Contractor is responsible for crane staging requirements outside of the project ring road identified in the 31A contractor's scope of work.
6. Contractor shall furnish only all anchor bolts, nuts, washings, leveling plates, bollards (interior and exterior), bearing plates, bent plates, pads, straps, ties, fabricated lintels and hung plates inclusive of metal drip edge, loose lintels, bent plates, angles, and all other embedded steel for the entire project in which other trades are installing. Steel lintels are to be provided for all openings in load bearing masonry per the structural drawing schedule for the Masonry Contractor to install. Mason will only install loose lintels and elevator hoist beam, any lintels requiring welded attachment to the structure will be installed by this contractor. Contractor shall provide delivery tickets for all furnish only items to the installing Contractor and the Construction Manager.
7. Any wall penetration required by other trades which has a diameter or horizontal dimension greater than 12" shall require a lintel be installed. The majority of lintels will be masonry, contractor to refer to structural notes for requirements.
8. Contractor includes furnish and install of miscellaneous metals for support of projection screens, therapeutic equipment, stage curtains, athletic equipment, roof top equipment, folding partitions, etc... as indicated.
9. Contractor to provide prime shop coating, field painting, and touch up as required for all structural steel, joists, and miscellaneous metals. Contractor to coordinate primer with fire resistive material requirements of the project. Contractor also includes all insulative coatings where required.
10. Contractor to shop galvanize any metals which remain exposed to exterior elements, and as indicated on the construction documents, whichever is more stringent.

11. Contractor shall provide all masonry anchors attached to steel. Contractor to coordinate each of the trades as necessary to determine the exact type of anchor required. Contractor shall furnish all anchor bolts for the parapet wood blocking and any other wood shown to be anchor with anchor bolts.
12. Contractor shall furnish and install all epoxy bolts as necessary (including the epoxy).
- ~~13. Contractor shall furnish and install all swing hooks including, but not limited to, all angle steel, tube steel, steel plate, threaded holes, and stainless steel threaded hooks.~~ ^{ADD#3}
14. Contractor shall coordinate with each of the trades to provide all steel framing, supports, openings, sleeves, and bracing that is required. Typically, all roof penetrations larger than 12" require a steel frame. Note all roof drains, regardless of size, require a roof frame below the deck.
15. Contractor shall core drill for all railings installed in concrete. Contractor shall ensure that unless rail is intended to be removable, the railing posts are set in non-expansive materials.
16. Contractor shall furnish and install all miscellaneous metal fabrications, including but not limited to, all gratings, ladders, rails, stairs, spiral stairs, stair nosings (furnish only), bollards (furnish only), ~~racks, swivel hooks~~ ^{ADD#3}, tracks, bracing, closures, ~~hangers for OTPT hooks, yokes at spaces~~ ^{ADD#3}, folding partition supports, ships ladders, alternating tread ladders, roof ladders includes serrated grab bars, angles at elevator door sills, aluminum and stainless steel at trench drains, exterior retaining wall rails, exterior site stair rails and all other miscellaneous and ornamental items that are required as indicated. Note that the bollards and embedded nosings will be installed by the Concrete Contractor. **All references to furnishing of stair nosings within this scope apply to stair nosings within the building. Refer to details on A-504 through A-506 and specification 05 53 20. Exterior stair nosings will be furnished and installed by the 03A Contractor** ^{ADD#3}
17. Contractor shall immediately provide and maintain MOSH compliant temporary handrails at all steel pan stairs, safety rails at all slab edges, stairwells, slab openings, roof openings, elevator openings, edge of deck at roof level and penthouses. Handrails shall be maintained and removed by this Contractor at the direction of the Construction Manager.
18. Contractor shall touch up and paint/field galvanize all welds including, but not limited to, those welds at all joists, beams, columns, moment connections, metal decking, and any other steel or miscellaneous metals item supplied by this Contractor. For galvanized material, contractor to minimize field welding on galvanized metals. Galvanized materials should be fabricated in the longest practical lengths to avoid field repairs to the galvanized coating. All galvanizing holes are to be plugged and touched up at shop prior to field installation.
19. Contractor shall provide field beam penetrations where approved by the structural engineer. This contractor to coordinate with other trades on the projects "Coordination Drawings".
20. Contractor shall coordinate the joist and beam layout with the Division 21, 23 and 26 Contractors and shift the layout as necessary to accommodate the work of these contractors prior to fabrication and at no additional cost to the Owner, given structural engineer approval.
21. Contractor includes supplying 1,000 LF of galvanized steel lintels (L6 x 3-1/2 x 3/8 LLV) that may not be graphically shown on the drawings or called out in a structural note but may be required during construction. This is in addition to what is shown and or noted on the construction documents. Contractor to pay particular attention to general lintel schedule and notes as not all lintels will be graphically shown.

22. Contractor includes supplying and installing 800 LF of miscellaneous galvanized bracing angles (4 x 4 x ¼). Contractor includes fabrication of needed lengths. This is in addition to what is shown and or noted on the construction documents.
23. Contractor shall furnish and install all lintels and hung plates attached to steel and shall, by use of instrument or other accurate device, ensure that all lintels and hung plates are set to proper line and grade and measured from established control points. Contractor to coordinate hung plate length(s) with masonry opening size to ensure end gaps of plate are not more than 3/8" so caulking contractor can provide adequate seal.
24. Contractor shall provide anchor bolt drawings and templates to both the Construction Manager and the Concrete Contractor within thirty (30) days of receiving a Letter of Intent, Notice of Award or the Contract, whichever is issued first.
25. Contractor shall completely survey and verify all anchor bolts. Survey to be completed at foundation completion but no later than two (2) weeks prior to erection of steel. Survey must be submitted within 48 hours of completion of survey. Contractor will notify the Construction Manager of any discrepancies or variations. If the Contractor does not advise the Construction Manager prior to the erection of steel, then the cost of the correcting any discrepancies or variations shall be the sole responsibility of this Contractor.
26. Contractor shall furnish, install, reconfigure, maintain, and remove all OSHA specified protection required in relation to its work at the direction of the Construction Manager. Contractor shall cover and provide fall protection for all openings in metal deck created by this Contractor.
27. Contractor shall furnish, install, reconfigure, maintain, and remove barriers in areas where steel is being installed and around the entire perimeter of elevated floors and roofs. Contractor shall provide the proper barriers to prevent people from entering areas steel is passing over.
28. Contractor shall review all documents for locations of openings in the Roof System that will be required by others. Contractor shall furnish and install all structural supports, angle, and safety rails for these openings. Contractor will be responsible for cutting of all openings shown on all drawings in its work.
29. Contractor shall protect all adjacent work and structures from welding sparks, slag, or any other results of this Contractor's work. Contractor to include all necessary fire watches.
30. Contractor shall coordinate with all other trades to properly set items supplied by this contractor and embedded or otherwise installed by others. Contractor is also responsible for coordination and layout of required angles used to support the drywall bulkheads.
31. Contractor shall coordinate with all other trades which require access through structural elements.
32. Contractor shall coordinate with the Masonry Contractor and confirm in the field to assure that wall mounted handrail connections on masonry walls are fastened through solid grouted CMU.
33. Contractor has reviewed existing site conditions and access roads for confirmation of delivery of long span items. In the event deliveries cannot be made, contractor to field splice items on site as necessary at no added cost to the Owner or Construction Manager.
34. Contractor to furnish and install all acoustical decking. Contractor to ensure "sandwich" type decking is stored in dry location and installed quickly to ensure no water infiltration in seems. In the event it is "lay-in acoustical insulation" type deck, 05A is to furnish to the 07A contractor for installation by 07A said insulation.

35. All Architecturally Exposed Structural Steel (AESS) shall be installed in strict accordance with the contract documents.
36. **05A Contractor shall furnish aluminum receiver and trench cover detailed on A16/A-427, for installation by 03A Contractor. 05A Contractor will coordinate with 09B Contractor for proper recess for flush installation of finish flooring material.** ^{ADD#3}

Responsibilities for Typical Parapet Walls

1. Responsibilities for Typical Parapet at CMU Back-up, Details D5, A5 /A431 (and other typical details) are assigned below:

- a) 04A – Air barrier, continuous air barrier transition membrane, rigid insulation, CMU, brick veneer and attachments. Install anchor bolts furnished by the 05A Contractor.
- b) 06A - Exterior fire rated plywood sheathing and blocking at top of parapet. Exterior fire rated plywood sheathing and blocking at both sides of parapet (if indicated), 2X wood blocking where required, batt insulation.
- c) 05A - Furnish anchor bolts to 04A.
- d) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1 /4” cover board over plywood.
- e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

2. Responsibilities for Typical Metal Panel Parapet at CMU Back-up, Details D5, A5 /A432, (and other typical details) are assigned below:

- a) 04A – Air barrier and continuous air barrier overlapping transition membrane. CMU. Rigid foam insulation. Mineral wool insulation. Install anchor bolts furnished by the 05A Contractor. Cont. STPE Sealant at termination bar. ~~Thermal break cladding support system~~ ^{ADD#3},
- b) 06A – Exterior fire rated plywood sheathing and blocking at top and sides of the parapet. Exterior fire rated plywood sheathing and blocking and rigid foam board insulation, ~~mineral wool insulation at side low roof (detail A14/A432)~~ ^{ADD#3}. 2X wood blocking where required,
- c) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1 /4” cover board over plywood. All flashings and counter-flashings.
- d) 07B – Metal panel system, thermal break cladding, mineral wool insulation at side low roof (see detail D14, A14/A432) ^{ADD#3}, continuous air barrier transition membrane, 2-piece prefinished aluminum metal panel base, 18 GA Min galvanized sheet metal 05A –Furnish anchor bolts to 04A.
- e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

3. Responsibilities for Typical Parapet at Stud Wall Back-up, Details D9 & A9 /A431, (and other typical details) are assigned below:

- a) 04A – ~~Continuous air barrier transition membrane and air barrier over 5/8” exterior gypsum sheathing.~~ Rigid board insulation ~~Foamed in place insulation.~~ ^{ADD#3} Brick veneer and attachments.
- b) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. 1 /4” cover board over plywood.
- c) 06A – CFMF, batt insulation, 5/8” exterior gypsum sheathing, 5/8” exterior fire rated plywood sheathing, 2X wood blocking, 3/4” and 1/2” plywood on top of parapet, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier over 5/8” exterior gypsum sheathing. ^{ADD#3}
- d) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

4. Responsibilities for Typical Metal Panel Parapet at Stud Wall Back-up, Details D9 & A9 /A432 (and other typical details) are assigned below:

- a) ~~04A – Continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing, insulation.~~ ^{ADD#3}
- b) 06A - Exterior fire rated plywood sheathing and blocking at top of the parapet and side of wall, CFMF, batt insulation, 5/8" exterior gypsum sheathing all blocking, 3/4" and 1/2" plywood, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier ~~mineral wool insulation.~~ ^{ADD#3}
- c) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. ~~3" cladding support system, metal panel system~~ ^{ADD#3}. 1/4" cover board over plywood.
- d) 05A – Furnish and install continuous galvanized steel bent plate at top of parapet wall.
- e) 07B – Metal panel system, thermal break cladding, mineral wool insulation ~~at side low roof~~ (detail D9 & A9/A432), ~~continuous air barrier transition membrane,~~ ^{ADD#3} 2-piece prefinished aluminum metal panel base,
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

5. Responsibilities for Typical Low Roof Studs w/ Metal Panel, Details D18 & A18 /A432 (and other typical details) are assigned below:

- a) ~~04A – Continuous air barrier overlapping transition membrane over 5/8" exterior gypsum sheathing, Foamed in place insulation.~~ ^{ADD#3}
- b) 06A – ~~3"~~ rigid foam insulation, exterior fire rated plywood sheathing and blocking, rigid foam board insulation and mineral wool insulation below blocking, CFMF, batt insulation, 5/8" exterior gypsum sheathing, galvanized sheet metal angle, continuous air barrier and transition membrane. ^{ADD#3}
- d) 07A –All flashings and counter-flashings (to include the SS receiver and counterflashing). ~~Mineral wool insulation at bottom of panel.~~ ^{ADD#3} 1/4" cover board over plywood and adhered membrane flashing
- e) 07B – Metal panel system, thermal break cladding, thermal break cladding support system, continuous flexible flashing. ^{ADD#3} mineral wool insulation ~~at side low roof~~ (detail D14 & A14/A432), ~~continuous air barrier transition membrane~~ ^{ADD#3}, 2-piece prefinished aluminum metal panel base, continuous flexible flashing
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

Miscellaneous Specialties Scope:

1. Contractor shall furnish and install all miscellaneous metals including but limited to, steel ladders, loose bearing plates, loose steel lintels, shelf angles, support angles for elevator door sill, steel framing and supports for overhead doors, steel framing and supports for mechanical and electrical equipment, elevator sump grates, pipe grid, miscellaneous storm drain piping specialties. This will include any miscellaneous fasteners required to provide a complete installation.
2. Contractor shall furnish and install all metal stairs, pipe and tube railings and decorative metal railings shown on the contract documents. This will include any design calculations required and miscellaneous fasteners and material need for a complete installation.
3. Contractor shall furnish and install all glass railing complete including but not limited to, exposed fasteners, concealed fasteners, etc... as indicated on the contract documents. Contractor to include all blocking required for this work.

4. Contractor to include own labor and equipment for unloading of deliveries, deliveries which arrive without contractor forces onsite will be immediately denied access to the site.
5. Contractor includes all incidental caulking associated with this work for a complete installation.
6. Contractor responsible for final cleaning and adjustment of materials furnished under this contract immediately prior to substantial completion.
7. **Contractor shall furnish and install all site handrails and guardrails throughout site, including excavation for footing, compacted aggregate sub-base, concrete, core drilling, sleeves, non-shrink grout, fasteners, sealant, and all other incidental work for a complete installation. Railings are required at all site stairs, ramps, retaining walls, and other conditions as called for on civil/landscape drawings.** ^{ADD#3}

SPECIAL CONSIDERATIONS:

1. Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. Contractor is expected to provide a crew of the same size that is provided during Monday through Friday, including crane operator. No exceptions.
2. This bid package has an MBE goal of _5_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, must try to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK:

1. Testing costs unless specifically called for in this scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.
2. Installation of embeds and anchor bolts.
3. Grouting of base plates.
4. Spray-on fire proofing or paints. Contractor is to coordinate priming, or not priming of materials which are to receive fire resistive materials by others to ensure compatibility of materials.
5. Final painting unless noted as included in above scope.

END OF SCOPE 05A

WORK SCOPE CATEGORY 06A – General Trades

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all Concrete Floor Enhancements, Stair Nosings, Column Covers, Rough Carpentry, Drywall & ACT, Cubicles, Installation of Frames, Doors, Hardware, **cold formed metal framing, fireproofing, expansion joints, counter doors, coiling doors, overhead doors, sectional doors, mirrors, louvers, and interior finishes, specialties, equipment, furnishings, greenhouse, elevator, and wheelchair lift** ^{ADD#3} work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

SECTION	NAME
<u>02 41 19</u>	<u>SELECTIVE DEMOLITION (as it relates to this scope)</u> ^{ADD#3}
03 35 46.23	CONCRETE FLOOR ENHANCEMENT
05 12 00	STRUCTURAL STEEL FRAMING (for coordination purposes)
05 12 13	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING (for coordination purposes)
05 21 00	STEEL JOIST FRAMING (for coordination purposes)
05 31 00	STEEL DECKING (for coordination purposes)
05 40 00	COLD-FORMED METAL FRAMING
05 50 00	METAL FABRICATIONS (for coordination purposes)
05 51 13	METAL PAN STAIRS (for coordination purposes)
05 51 40	FABRICATED SPIRAL STAIRS (for coordination purposes)
05 52 13	PIPE AND TUBE RAILINGS (for coordination purposes)
05 53 20	STAIR NOSINGS (as it relates to this scope)
05 58 13	COLUMN COVERS
05 71 00	DECORATIVE METAL STAIRS (for coordination purposes)
05 73 00	DECORATIVE METAL RAILINGS (for coordination purposes)
06 10 53	MISCELLANEOUS ROUGH CARPENTRY
06 16 43	GYPSUM SHEATHING
<u>07 18 00</u>	<u>TRAFFIC COATINGS</u> ^{ADD#3}
07 21 00	THERMAL INSULATION (as it relates to this scope)
07 27 26	FLUID-APPLIED MEMBRANE AIR BARRIERS (for coordination only)
07 42 13.13	METAL WALL PANELS (for coordination purposes)
07 42 13.16	METAL PLATE WALL PANELS (for coordination purposes) ^{ADD#3}
07 42 13.19	INSULATED METAL WALL PANELS (for coordination purposes)
<u>07 42 13.23</u>	<u>METAL COMPOSITE MATERIAL WALL PANELS (for coordination purposes)</u> ^{ADD#3}
07 48 13	THERMAL BREAK CLADDING SUPPORT SYSTEM (for coordination purposes)
07 52 16	MODIFIED BITUMINOUS MEMBRANE ROOFING (for coordination purposes) ^{ADD#3}
<u>07 54 23</u>	<u>THERMOPLASTIC -POLYOLEFIN (TPO) ROOFING</u> ^{ADD#3}
07 62 00	SHEET METAL FLASHING AND TRIM (for coordination purposes)
07 71 00	ROOF SPECIALTIES (for coordination purposes)
07 71 29	MANUFACTURED ROOF EXPANSION JOINTS (for coordination purposes)
07 72 00	ROOF ACCESSORIES (for coordination purposes)
07 81 00	APPLIED FIREPROOFING
07 81 23	INTUMESCENT FIREPROOFING
07 84 13	PENETRATION FIRESTOPPING (as it relates to this scope)
07 84 43	JOINT FIRESTOPPING (as it relates to this scope)
07 91 00	PREFORMED JOINT SEALS (as it relates to this scope)
07 92 00	JOINT SEALANTS (as it relates to this scope)
07 92 19	ACOUSTICAL JOINT SEALANTS (as it relates to this scope)
07 95 13	EXPANSION JOINT COVER ASSEMBLIES
08 11 13	HOLLOW METAL DOORS AND FRAMES
08 14 16	FLUSH WOOD DOORS (for installation and coordination purposes) ^{ADD#3}

08 31 13	ACCESS DOORS AND PANELS (as it relates to this scope)
08 33 00	INSULATED COILING COUNTER DOORS
08 33 13	COILING COUNTER DOORS
08 33 23	OVERHEAD COILING DOORS
08 36 53	VERTICALLY OPERATING SECTIONAL DOORS
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS (for coordination purposes)
08 44 13	GLAZED ALUMINUM CURTAIN WALLS (for coordination purposes)
08 45 00	TRANSLUCENT SINGE PANEL WALL CLADDING ASSEMBLIES (for coordination purposes)
08 71 00	DOOR HARDWARE
08 83 00	MIRRORS
08 91 19	FIXED LOUVERS
09 21 16.23	GYPSUM BOARD SHAFT WALL ASSEMBLIES
09 22 16	NON-STRUCTURAL METAL FRAMING
09 29 00	GYPSUM BOARD
09 51 13	ACOUSTICAL PANEL CEILINGS
09 54 23	LINEAR METAL CEILINGS
09 54 46	POLYESTER FELT BLADE BAFFLE PANELS
<u>09 72 00</u>	<u>WALL COVERINGS</u> ^{ADD#3}
09 72 53	SPECIAL WALL COVERING
09 78 53	FLUSH JOINT LINEAR WALL PANEL SYSTEM
09 84 00	ACOUSTICAL WALL PANELS
09 84 00.01	FABRIC WRAPPED SOUND-ABSORBING WALL PANELS
09 84 00.03	SOUND-REFLECTING CEILING PANELS
09 84 17	CEMENTITIOUS WOOD FIBER WALL SHAPES ACOUSTICAL WALL PANELS
09 91 23	INTERIOR PAINTING
09 93 00	STAINING AND TRANSPARENT FINISHING (for coordination purposes)
09 96 00	HIGH-PERFORMANCE COATINGS
09 96 72	FLUID APPLIED INSULATIVE COATING
10 00 05	MISCELLANEOUS SPECIALTIES
10 11 00	VISUAL DISPLAY BOARDS <u>UNITS</u> ^{ADD#3}
10 14 00	SIGNAGE
10 21 13.19	PLASTIC TOILET PARTITIONS
10 21 23	CUBICLE CURTAINS AND TRACK
10 22 13	WIRE MESH PARTITIONS
10 22 39	FOLDING PANEL PARTITIONS
10 26 23.11	DECORATIVE PROTECTION PANELS
10 28 00	TOILET, BATH, AND LAUNDRY ACCESSORIES
10 28 00.13	ELECTRIC HAND DRYERS
10 44 13	FIRE PROTECTION CABINETS
10 44 16	FIRE EXTINGUISHERS
10 50 00	LOCKERS
10 50 53	ATHLETIC LOCKERS & STORAGE ASSEMBLIES
10 56 13	METAL STORAGE SHELVING
10 56 13.23	CANTILEVER METAL LIBRARY SHELVING (<u>for coordination purposes</u>) ^{ADD#3}
10 73 10	PROTECTIVE COVERS
11 00 05	MISCELLANEOUS EQUIPMENT
11 13 13	LOADING DOCK BUMPERS
12 10 13	MURALS
12 21 13	HORIZONTAL LOUVER BLINDS
12 24 13	WINDOW SHADE SYSTEMS
13 34 13	GREENHOUSE AND GREENHOUSE RELATED EQUIPMENT
14 24 00	PASSENGER ELEVATOR

14 42 00 WHEELCHAIR LIFTS

* Provide the temporary fit outs indicated in the drawings as well as the removal of the temporary conditions and complete finishes as part of Phase 2. If the Base Bid 2 option is selected, the temporary fit out work will not be required.

Geotechnical Report issued by [ECS Mid Atlantic, LLC dated February 3, 2023, with addendum dated March 21, 2023](#), for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Temporary Facilities Specific Scope:

1. Contractor to provide temporary project identification signs, waste disposal services, temporary fire extinguishers, barricades, warning signs. Contractor shall provide temporary sanitary facilities for CM/Owner's field office (250 Gallon Waste Tank and 100 Gallon Flush Water Tank serviced 2 times per week for the duration of the project). Contractor to provide temporary sanitary facilities and hand-washing stations for the use of all Prime Contractors' personnel for the duration of the project. Contractor is responsible for its own temporary facilities.
2. Contractor includes all stairs, plan tables and rack(s) at the Construction Manager's temporary facilities for this project. Contractor to assume two sets of 4' wide stairs with 6'x4' platform decks, two (2) 22' long drafting tables, 37" high with sloped surfaces, topped with finish grade plywood and Vyco vinyl sheet drafting board covers. Provide one (1) Brookside Design rolling blueprint stand with one dozen pivot hangers and one dozen 42" long hanging drawing clamps. Removal of temp stairs & tables will be by this Contractor at end of project.
3. Within one calendar day of mobilization on site and prior to the commencement of work activities, Contractor is to provide a clear weatherproof covered bulletin board not less than 36 by 48 inches in size for displaying the Equal Employment Opportunity poster, a copy of the wage decision contained in the contract, Wage Rate Information poster, Safety and Health Information. Contractor shall include all posts and bracing as needed for proper support. Sign shall be located as directed by the CM.
4. Contractor shall furnish, install and remove when directed, the State of Maryland project sign. Contractor shall include all posts and wood bracing needed for proper support. Sign shall be located as directed by the CM.
5. Contractor shall furnish and install temporary openings protection with dimensional wood framing and heavy-duty reinforced fiber poly as needed. Quantity may be used at the discretion of the CM. Areas protected may include heights up to 15' tall at storefront locations. Removal of protection to occur at the discretion of the CM. The owner reserves the right to a credit for all unused temporary protection. Quantities are as follows:
 - a. Curtainwalls – 4,000 SF
 - b. Windows – 4,000 SF
 - c. Partitions – 2,000 SF

Fall Protection / Safety Specific Scope:

1. Contractor to provide, maintain, and remove, when directed, to MOSHA/OSHA compliant temporary rails, toe boards, etc. at the perimeter of all floors, raised slab edges, roofs, pits, elevator shafts, window openings, exterior wall openings, and any other area deemed a potential falling hazard by OSHA. Contractor to patch all construction damaged by temporary rails and toe boards. Contractor shall maintain all temporary measures through completion of project.
2. Contractor to provide and maintain MOSHA/OSHA compliant covers at all slab diamonds and temporary slab openings until concrete infill is installed. Holes made by any trade shall be covered and maintained by this Contractor. Covers must be of adequate strength to support 2 times the anticipated potential loads, secured against displacement and labeled as "hole" or with a fluorescent orange "X". If hole covers are damaged, Contractor shall immediately repair the hole cover and notify the CM.
3. Contractor to provide and maintain MOSH compliant temporary handrails at all stairways, safety rails at all slab edges, stairwells, slab openings, roof openings, and elevator openings. This must be maintained until permanent rails are installed, or as determined by the CM. Additionally, provide $\frac{3}{4}$ " plywood tread protection tapconed to concrete at all stair treads. Adequate protection over all stair treads to eliminate damage of treads and/or nosings, after stairs are poured. Maintenance will be required on these. Removal and disposal of this work shall be by this Contractor when directed by the C.M.
4. Contractor shall furnish and install the wire rope safety cable for this scope of work. This Contractor is to remove, reinstall and maintain all safety cables as needed by all trades to allow them to perform their work during the course of construction. Minimum height requirements of safety cable must be maintained by this contractor both before and after slab on metal deck pour. Remove safety cable and safety posts and grind down smooth with floor when hazard no longer exists at the discretion of the CM.
5. Contractor to provide, maintain, and remove, when directed, temporary wood fillers in all metal pan stair treads and landings, if any. Wood fillers to be a snug fit to the full depth and width of all treads and landings and flush with the leading edge of the metal pans. Fillers to be OSHA/MOSHA compliant.
6. Contractor to provide MOSHA/OSHA compliant protection on all reinforcing steel protruding from concrete. The Contractor to maintain this protection until work has been placed over the reinforcing steel.
7. Contractor to provide and maintain parapet clamp guardrail system per OSHA standards (i.e., Manufacturer: Guardian Fall Protection) at all roof parapets, while performing work.

Construction Waste Management Specific Scope:

1. Contractor to provide Waste Management Service in accordance with Division 1 and any LEED requirements.
2. Contractor to provide enough dumpsters for the proper and legal disposal of construction waste for all the Trades/Prime Contractors, for the duration of the project, except for Prime Contractor 07A Roofing Package.
3. Contractor to provide a minimum of twenty (20) 40-yard dumpsters for the exclusive use of the Owner's school personnel, as needed at any time during the project duration. Location of dumpsters to be coordinated with the CM.
4. Contractor will be required to dedicate one person per eight workers onsite, dedicated to project composite cleanup crew, once per week, for 8 hours (day shift & night shift, 2 cleaning crews total per week), for the duration of the project, typically on Fridays. In addition to this, Contractor shall provide one (1) competent supervisor and a minimum of two (2) laborers to oversee and take the lead in directing the composite cleanup crew for the entire

duration of the project (including time during Owner move-in and occupancy for each phase) whether working on site or not. Refer to special considerations at the end of this scope.

5. Contractor to submit within 30 days from Notice to Proceed with Construction Waste Management Plan, if required by specifications, for review and approval by Owner, Architect and CM.
6. Contractor to submit a Construction Waste Management Report, if required by specifications, with associated documentation on a monthly basis with the submission of the Payment Application. CM reserves the right to recommend payment rejection due to the lack of LEED Documentation.

Concrete Floor Enhancement Specific Scope:

1. Contractor shall furnish and install concrete floor enhancement for CONC-1 and CONC-2 in areas designated on the contract documents.
2. Contractor shall provide protection of polished floors from subsequent construction activities until direct to remove by the Construction Manager.

Column Cover Specific Scope:

1. Contractor to furnish and install all column covers interior and exterior called for on the contract documents.
2. Contractor includes all miscellaneous fasteners and caulking required for a complete and finished product.

Drywall, Rough Carpentry, and Acoustical Assemblies Specific Scope:

1. Contractor shall furnish and install cold formed metal framing, insulation, all weather barrier, drywall, and acoustical assemblies, ceiling tiles, wall panels, and the like work required by the Contract documents, including, but not limited to, all gypsum board, acoustical ceilings, translucent ceiling panels, grid suspension systems, acoustical treatment, acoustical panels, "Clouds", cementitious wood fiber panels, glass fiber reinforce plastic, cold formed metal framing, C-shaped loading bearing metal framing, metal stud kickers, hat channel, z channel, z-clips (**7B trade contractor provides z channel and z clips at metal panel locations**), metal furring, metal blocking, gypsum sheathing, dense glass, dense deck masonry back-up, acoustical joint sealers, acoustical sealants, hat channel, metal furring, drywall accessories, firestopping (as it relates to this Contractor's work), fire caulking (as it relates to this Contractor's work), sound caulking (as it relates to this Contractor's work), shaft wall assemblies, framing components for suspended / furred ceilings, corner bead, edge trim, control joints, access panels (including furnish and install of own and installation of those provided by other trades at drywall and masonry), and interior building insulation.
2. Contractor is to furnish and install all wood blocking which is exterior to the building, roof and window, as well as all wood blocking located within metal studs which is covered by drywall, dens-glass, or sheathing. This includes but not limited to lumber, wood structural panels, fire retardant treated materials, dimensional lumber, miscellaneous lumber, sheathing, etc. Contractor to coordinate with other trades for final locations and requirements.
3. Contractor shall coordinate with other Contractors on location of all work installed in partitions and ceilings. Contractor shall ensure that all required inspections have been made prior to closing walls and ceilings.
4. Contractor shall be responsible for the layout of all work in this Contract Package. The Contractor shall layout all partitions.
5. Contractor shall perform all welding required to complete its work.

6. Contractor shall furnish and install all light gauge metal bent plates, angles, plates, clip angles, and the like as required for attaching studwork to the structure.
7. Contractor shall inspect (jointly with the Painting Contractor) all drywall work with a droplight before and after the prime coat of paint and perform all necessary point-up. All drywall work to be finished per specification section 09 29 00.
8. Contractor to include drywall expansion/control joints as recommended by manufacturer if not specified elsewhere.
9. Contractor will coordinate with the 04A contractor for installation of hollow metal frames located in masonry walls. This Contractor shall ensure hollow metal frames are set plumb, level, square, and true to line. The 04A Contractor shall be responsible for maintaining hollow metal frames until the frame is completely enclosed in masonry and accepted by this contractor for installation of door slabs and finish hardware.
10. Contractor shall furnish and install temporary protection at each exterior opening of the building once the 04A contractor has completed work in that area. This protection shall consist of wood framing with a 15-mill poly attached. All maintenance of temporary protection is included and no additional payment will be made for this work.
11. Contractor to furnish and install acoustical panel ceiling, linear metal ceiling, polyester felt blade baffle panels, flexible wood veneers, fabric wrapped sound-absorbing wall panels, sound-reflecting ceiling panels and cementitious wood fiber wall shape acoustical wall panel assemblies. Contractor shall furnish all acoustic tile cut-ins for other trade Contractors. Contractor shall coordinate furnishings and installation of cut tile with the Construction Manager. Contractor shall coordinate installation and arrangement of ceilings system with affected trade contractors through the Construction Manager. The 21A Contractor shall coordinate and verify sprinkler head locations prior to cutting tile or installing grid by the 06A Contractor.
12. Contractor to include protection of acoustical treatments after installation.
13. Contractor to furnish and install all acoustical ceiling cloud and reflector systems complete. Contractor includes complete composite construction, shape and suspension as specified. Contractor acknowledges fire rating of cloud system as specified.
14. Contractor shall furnish and install all batt and acoustic insulation.
15. Contractor shall coordinate all embedded items incorporated in this work including, but not limited to, mechanical and electrical equipment for proper alignment, leveling, and access.
16. Contractor includes "tenting" of light fixtures if required by code.
17. Contractor includes all reasonably inferred chases and bulkheads for mechanical piping shown on both architectural and mechanical drawings.
18. Contractor shall include full replacement of 5% of total square footage provided for ceiling tile and grid prior to acceptance of the ceiling systems at no additional cost. Contractor shall provide maintenance stock material as specified at no additional cost.
19. Contractor shall provide ventilator when installing drywall to reduce dust and humidity.
20. Contractor shall provide drywall point-up between prime and finish paint coats. Point-up to be inspected by the Construction Manager, Drywall and Painting Contractors prior to final coat of paint.

21. Contractor shall furnish and install infill with metal stud and drywall and fire sealant where applicable, where masonry walls cannot extend to deck.
22. Contractor shall provide a Level 5 drywall finish. Therefore, point-up of drywall should be minimal after priming of the surface. Excessive point-up or poor-quality workmanship will not be tolerated. Butts joints are to be taken out 24" minimum, factory joints 12" minimum. No board joints are to break at window or doorjamb.
23. Contractor to coordinate with 21A, 23A, and 26A contractor for installation of access doors furnished and installed by other contractors. This contractor to include cutting of all drywall and additional framing to allow for installation of access doors.
24. Fire stopping of all penetrations is to be performed by the contractor making the respective penetration, ie... by 21A, 23A, and 26A.
25. The 04A Contractor is to furnish and install all exterior rigid and spray applied insulation on masonry backup walls, including but limited to behind, brick, precast, cast stone, finish block, and metal panel areas. Contractor to coordinate exterior framing being provided by this contractor. All other rigid insulation which is contiguous to this contractor's work is to be provided by this contractor.
26. Contractor shall furnish and install all structural thermal break material system as shown on contract documents.
27. Contractor to include preformed airtight steel flute deck sealer where required at drywall assembly construction.
28. Contractor to furnish and install sanitary wall panel systems in areas identified on the contract documents. Contractor includes all fasteners and miscellaneous accessories to provide a finished system.
29. Contractor shall install stair nosings furnished by 05A Contractor in locations shown on the contract documents.

Applied Fireproofing Specific Scope:

1. Contractor shall furnish and install all spray fireproofing necessary for a complete installation as required by the Contract Documents.
2. Contractor is to ensure that fireproofing operations will not damage or mar any adjoining finishes. Contractor includes masking of all surfaces to remain exposed. All cost associated with repairing finishes as a result of contractor's negligence will be borne by this contractor.
3. Contractor to coordinate with 05A Contractor to ensure spray fireproofing is compatible with steel and joist primer.
4. Contractor shall include an allowance of \$54,000.00 for material and labor for patching as directed by the Construction Manager. Contractor to provide crew rate to Construction Manager within 10 days of execution of contract.
5. Contractor includes patching of all area's owners testing agency disturbs at no additional cost.
6. Contractor includes all additional materials and cost of retesting areas which do not pass owner provided testing agency requirements.
7. Contractor is responsible for cleanup to return workspace to condition it was given to prior to the start of spray fireproofing.
8. Contractor assumes multiple mobilizations for the work.

9. Temporary electric and water connections from a single location per floor. Temporary electric and water connections to each floor will be provided by MEP contractors.
10. Contractor responsible for any minor preparations necessary to apply fireproofing. Contractor responsible for an inspection of substrates 2 weeks prior to beginning of work. Commencement of work is acceptance of substrate.

Intumescent Paint Specific Scope:

1. Contractor shall furnish and install all intumescent paints necessary for and incidental to a complete installation as required by the Contract Documents.
2. Contractor is to ensure that intumescent operations will not damage or mar any adjoining finishes. Contractor includes masking of all surfaces to remain exposed. All cost associated with repairing finishes as a result of contractor's negligence will be borne by this contractor.
3. Contractor includes cleaning and surface preparation prior to application of materials.
4. Contractor to coordinate with 05A Contractor to ensure intumescent paint is compatible with steel, joists, and decking substrate.

Sealants Specific Scope:

1. Contractor shall furnish and install all sealants and caulking necessary for and incidental to a complete installation as required by the Contract Documents.
2. Contractor is to ensure that caulking operations will not damage or mar any adjoining finishes. All cost associated with repairing finishes as a result of contractor's negligence will be borne by this contractor.
3. The following caulking items are included in this scope of work as noted:
 - a) Joints between differing materials
 - b) Perimeter joints of hollow metal frames and elevator jambs, interior and exterior sides,
 - c) Control and expansion joints in ceilings and other overhead surfaces,
 - d) Interior joints of all perimeter of slab on grade to wall,
 - e) Joints between all plumbing fixtures and adjoining walls, floors and counters,
 - f) Perimeter (both sides) of all interior windows,
 - g) Interior and exterior perimeter of wall louvers,
 - h) Exterior perimeter of exterior wall scuppers,
 - i) Top and bottom of stair stringer to wall joint,
 - j) Perimeter of all access panels,
 - k) Toilet accessories to substrate when applicable,
 - l) Plumbing fixtures to substrate when applicable,
 - m) Mirrors to substrate when applicable,
 - n) Dissimilar materials which can lead to possible water infiltration,
 - o) Other joints as indicated on contract documents or specifications,
 - p) Access to own work.

Expansion joint Cover Assemblies Specific Scope:

1. Contractor will furnish and install all expansion joints and covers inclusive of fire rated joint system assemblies complete, inclusive of floor, wall and ceilings. Roof expansion joints are by the 07A Contractor. Exterior expansion joints located in masonry are by the 04A Contractor. Contractor to coordinate with the 03A contractor prior to slab pours. Fire-rated joint systems at curtainwalls are furnished and installed by the 08B Contractor.
2. Contractor shall provide anchoring devices for installation and embedding by the 03A contractor. Provide templates and rough-in measurements.

Doors, Frames, Hardware Specific Scope:

1. Contractor shall furnish and install all hollow metal door frames (including sidelights, borrowed lights, transom frames, and architectural stick assemblies), hollow metal window frames, hollow metal doors, pre-finished wood doors, and finish hardware (including but not limited to all hinges, continuous hinges, locks, latch sets, deadlocks, exit devices, removable mullions, door closers, electro-magnetic locks, power supplies, key switches, power door operators, overhead stops, overhead holders, push plates, pull plates, anti-vandal pulls, kick plates, armor plates, flush bolts, floor stops, wall stops, thresholds, astragals, weatherstripping, gasketing, door silencers, key cabinets, and the like). Contractor shall adhere to the requirements of the contract documents with regard to quality assurance, regulatory agencies, submittals, samples, products, warranties, factory staining, key control systems, keys/keying, and the like.
2. Contractor shall furnish and install ~~and install~~ ^{ADD#3} all hardware required for the aluminum doors on the project. All hardware will be delivered to the 08B contractor for installation. Contractor shall provide a list of hardware provided and have the 08B contractor acknowledge receipt. If contractor fails to have a delivery receipt signed by 08B contractor than this contractor will be required to provide any missing items.
3. Contractor to install (1) 3' x 7' hollow metal frame within masonry mockup panel.
4. Contractor to install all final keyed cores under this scope as well as storefront and overhead doors scope per Owner direction. Contractor to include installation and setting up of key cabinet.

Coiling Door Specific Scope:

1. Contractor shall provide and install a complete coiling counter doors, overhead coiling doors and sectional door package. Contractor shall adhere to the requirements of the contract documents with regard to performance, submittals, quality assurance, warranty, manufacturers, door curtain materials & construction, hoods & accessories, counterbalancing mechanisms, guides, manual door operators, finishes, installation, adjusting, protection, cleaning, and demonstration.
2. Contractor to coordinate with Electrical contractor to ensure proper power requirements are brought to door operator as well as connections to fire alarm system. Contractor will furnish and install any transformer, rectifiers, controls, as required, Electrical contractor has final connection of electrical and F/A only. All control switches are to be of the keyed variety unless specifically authorized otherwise in writing by the architect.
3. Contractor includes furnish and installation of electric door operator with means of disconnect, electric motors, remote control station, etc.
4. Contractor includes cost of factory-authorized service representative to perform startup and training of owner's personnel.
5. Contractor includes furnishing and installation of loading dock bumpers as required by contract documents.

Fixed Louver Specific Scope:

1. Contractor shall furnish and install all fixed louvers with insect screens and blank-off panels identified on the contract documents.
2. Contractor shall provide a finish warranty for all Factory-Applied finished as outlined in specifications.

Painting Specific Scope:

1. Contractor to include all , interior and exterior prepping, priming, and painting of all materials as called out in specifications and construction documents including but not limited to steel, galvanized metals, aluminum, concrete, masonry, wood, gypsum, etc.
2. Contractor to include stenciling/labeling of all fire walls as directed by contract documents and by local jurisdiction.
3. Contractor to include light sanding of walls between primer, first and second coats when applicable.
4. Contractor to include painting of mechanical and electrical work to include but limited to, when applicable, uninsulated metal piping, uninsulated plastic piping, pipe hangers and supports, tanks without factory finishes, visible portions of internal portion of metal ducts without liner, behind all diffusers and grilles, exposed ductwork, all mechanical equipment without a factory finish, all electrical equipment without a factory finish, exposed conduits, etc which is not concealed in chases or above ceilings as directed by the specifications.
5. Contractor to include sealing and or hardeners of all exposed concrete floors. Material is to be of the tinted variety. Contractor to apply product one time immediately prior to substantial completion. Contractor to include cleaning of floors to manufacturer's standard prior to application.
6. Contractor to include all block filler applications. Two coats minimum.
7. Contractor to include painting of all exterior rails, lintels, exposed non prefinished metallic materials.
8. Contractor to include proper preparation for painting of all galvanized materials.
9. Contractor to include all cleaning of surfaces as dictated in the specifications prior to application of product.
10. Contractor to include caulking of drywall to block and or concrete surfaces.
11. Contractor shall be responsible for all minor touch-up and repainting work caused by installation of adjacent work.
12. Contractor to provide a paint schedule for submittal to the Architect, Owner, and Construction Manager.
13. Contractor is responsible for any rework as a result of dirt blown into finish, unless notice is given to the Construction Manager prior to beginning work that the area in question is not ready for painting.
14. Contractor to include any masking off of materials as required to properly protect other finished materials. Contractor to product adjacent finished surfaces. Overspray to be cleaned at this contractor's expense

Miscellaneous Specialties Specific Scope:

1. Contractor shall furnish labor materials, tools, equipment, services and supervision required for the complete work for the display and poster cases, Outdoor LED message display and art display rail as indicated and required by the contract documents.
2. Contractor shall include all incidental and complementary work shown, specified or necessary to provide a complete installation.
3. Contractor to furnish and install all prefabricated bulletin boards and display cases including but not limited to recessed trophy and display cases, glass doors, metal trim and accessories, wood box enclosures, lighting fixtures, etc.
4. Contractor to coordinate opening sizes with 04A and 05A contractors depending on location.
5. Contractor to coordinate with the 21A contractor on sprinkler head requirements and locations. Contractor to include any and all modifications to allow for access of this system at no cost to owner.
6. Contractor to coordinate all voltage requirements with the 26A contractor.
7. Contractor includes any incidental caulking of work provided under this scope for a complete and finished product.
8. Contractor is responsible for coordination of all in wall blocking required for this work, prior to wall close-in. Blocking to be furnished and installed by the 06A contractor if covered by drywall, all other blocking for this scope is by this contractor.
9. Contractor to furnish and install all hook and loop mat hangers and coordinating wall padding, high-impact corner guards, for a complete installation as indicated on construction documents

Visual Display Units Specific Scope:

1. Contractor to furnish and install all visual display surfaces including but not limited to markerboards, tackboards, display and map rails, and all related accessories etc for a complete installation as indicated on construction documents.
2. Contractor to coordinate substrate requirements with 04A, and 06A contractors depending on location.
3. Contractor includes any incidental caulking of work provided under this scope for a complete and finished product.
4. Contractor is responsible for coordination of all inwall blocking required for this work, prior to wall close-in by the 06A drywall contractor. Blocking to be furnished and installed by the 06A contractor if covered by drywall, all other blocking for this scope is by this contractor.

Signage Specific Scope:

1. Contractor to furnish and install all interior signage, educational signage, panel signage (both interior and exterior), dimensional characters, cast metal plaques, way finding signage, outdoor LED signs, signage accessories and the like inclusive of fasteners, mastics(s) and perimeter sealant.
2. Contractor is responsible for coordination of any in-wall blocking if needed for this work, prior to wall close-in. Blocking to be furnished and installed by the 06A contractor if covered by drywall, any other blocking for this scope is by this contractor. Contractor is responsible for coordination of the required power requirements with the 26A package.

3. Contractor includes all incidental caulking of own work for a complete installation.
4. Room identification signage to be mounted at latch side of door or as indicated on construction documents.

Plastic Toilet Partitions and Toilet Accessories Specific Scope:

1. Contractor to furnish and install all toilet compartments inclusive of solid polymer units, pilaster shoes and sleeves, brackets, heat-sink strips and any other accessory required for a complete installation as indicated on contract documents and specifications including but not limited to overhead braced toilet enclosures, and wall mounted urinal screens.
2. Toilet and Bath accessories which will be furnished and installed by this contractor are to include, but not limited to, all mirror units, grab bars, toilet tissue dispensers, soap dispensers (including every sink throughout the building), paper towel dispensers (including every sink throughout the building), sanitary napkin disposals, shower curtain rods, shower curtain and hooks, diaper changing stations, warm-air dryer, coat hooks, robe hooks, mop and broom holders and all other accessories, anchors, fasteners and caulking as indicated or specified for a complete installation.
3. Contractor to coordinate with 05A Contractor for structural support of all items furnished under this scope of work.
4. Contractor is responsible for coordination of all in-wall blocking required for this work, prior to wall close-in by the 06A drywall contractor. Blocking to be furnished and installed by this contractor if covered by drywall, all other blocking for this scope is by this contractor.
5. Contractor to coordinate with tile contractor for installation of floor fasteners as applicable. Any damaged tile which occurs during installation of work, under this scope, will be the responsibility of this contractor.
6. Contractor responsible for final adjustment of hardware per the specification immediately prior to substantial completion.
7. Contractor to furnish only, for installation by Electrical Contractor all electric hand dryers, and associated anchors and fasteners. Contractor to coordinate with Electrical Contractor for exact power requirements.

Cubicles Specific Scope:

1. Contractor to furnish and install all cubicles complete including but not limited to, track, curtain, track accessories, curtain carriers, exposed fasteners, concealed fasteners, etc. as indicated on the contract documents. Contractor to include all own blocking for this work.
2. Contractor includes field measuring of spaces prior to fabrication.

Wire Mesh Partitions Specific Scope:

3. Contractor to furnish and install all wire mesh partitions complete including but not limited to, woven wire mesh, framing/support members, doors, welding fasteners, accessories, fabrication, etc. as indicated on the contract documents. Contractor to include all own blocking for this work.
4. Contractor includes field measuring of spaces prior to fabrication.

Folding Panel Partitions:

1. Contractor shall provide and install a complete operable folding panel partitions and folding glass-panel partition systems including but not limited to special warranty, design intent and arrangement, panel construction, panel weight, panel thickness, panel closure, hardware, vertical and horizontal seals, finish facing, acoustical wall carpet covering, trimless edges, suspension tracks, carriers, aluminum finish, steel finish, electric operators (coordinate with 26A contractor for proper voltage), control equipment, motor characteristics, remote control stations, infrared detector system with alarm, limit switches, emergency release mechanisms, pass doors with self-illuminating exit signs, adjustments, light leakage tests, acoustical tests by independent certified acoustical consultant, cleaning and demonstrations
2. Contractor to coordinate with 05A and 06A Contractors for structural support, above ceiling acoustical treatment requirements, final ceiling heights and adjacent flooring requirements.
3. Contractor to coordinate with 26A Electrical Contractor to ensure proper power requirements are brought to door operator as well as connections to fire alarm system. The 26A Contractor will provide power to the motor, all wiring within the system will be the responsibility of this contractor.
4. Contractor includes cost of factory-authorized service representative to perform startup and training of owner's personnel.
5. Contractor to protect wood floor with two layers of ¾ inch plywood with resin paper between the wood floor and the plywood for any lift work over the finished floor.

Decorative Protection Panel Specific Scope:

1. Contractor to furnish and install decorative protection panels with custom graphic designs as designated on the contract documents.
2. Contractor includes any incidental caulking of work provided under this scope for a complete and finished product.
3. Contractor is responsible for coordination of all inwall blocking required for this work, prior to wall close-in. Blocking to be furnished and installed by this contractor if covered by drywall, all other blocking for this scope is by this contractor.

Fire Protection Specific Scope:

1. Contractor to furnish and install fire protection cabinets and fire extinguishers in the locations shown on the contract documents.
2. Contractor is responsible for coordination of all wall openings within masonry walls with the 04A contractor. Blocking in drywall partitions to be furnished and installed by this contractor.

Locker Specific Scope:

1. Contractor to furnish and install all metal and metal grid lockers, solid phenolic lockers as indicated including, locks, locker accessories, fasteners and anchors, doors, perforated doors, hinges, recessed handles and latches, interior shelving, bases, angled tops, finished end panels, hooks, identification plates, center dividers, acoustical treatment, concealed vents, combination pad locks, interior equipment, recess trim, latch stiffeners, filler panels, boxed end panels, final cleaning and lubrication prior to substantial completion, etc.
2. Contractor to submit numbered layout drawing prior to fabrication for approval.
3. Contractor to coordinate concrete pads and wood sleeper (locker base) requirements with Concrete Contractor.

4. Contractor to coordinate base requirements with the Resilient Flooring and Floor Tile Contractor.
5. Contractor is responsible for coordination of all in wall blocking required for this work, prior to wall close-in. Blocking to be furnished and installed by this contractor if covered by drywall.
6. Contractor to include incidental caulking associated with this work for a complete system.
7. Contractor to include own labor and equipment for unloading of deliveries; deliveries which arrive without contractor forces onsite will be immediately denied access to the site.

Metal Storage Shelving Specific Scope:

1. Contractor to furnish and install all Metal Storage Shelving including but not limited to Post-And-Shelf metal storage shelving, inclusive of posts, bracing, solid shelves, shelf-to-post connectors, bases, and baked enamel finish.
2. Contractor to coordinate concrete pads if required with Concrete Contractor.
3. Contractor includes permanent attachment of shelving to adjacent walls. Single point attachment to slab will not be accepted.
4. Contractor is responsible for coordination of all in wall blocking required for this work, prior to wall close-in. Blocking to be furnished and installed by this contractor if covered by drywall, all other blocking for this scope.
5. Contractor to include own labor and equipment for unloading of deliveries, deliveries which arrive without contractor forces onsite will be immediately denied access to the site.

Storage Specialties Specific Scope:

1. Contractor to furnish and install gliding high-density cart, portable high-density carts and all accessories necessary for a complete installation.
2. Contractor to examine all areas for compliance with manufacturers installation tolerances including overhead clearances prior to starting work. Once contractor has started installation, this will constitute acceptance of previously installed work.

Protective Cover Specific Scope:

1. Contractor to furnish and install all protective covers as indicated, detailed, and specified including but not limited to general design requirements and arrangements, structural performance, field measurements, special warranties, steel, aluminum, anchors, fasteners, fittings, hardware, galvanize repair paint, bituminous paint, grout, gaskets, aluminum flashing, support structure, extruded aluminum roof decking, roll-formed aluminum roof deck, metal roofing and fascias, excavation, placement and backfill of concrete foundations, anchor bolts, plumbing connections and piping to storm system to a point 5' outside of canopy roof edge, coordination of electrical installation for a complete turn-key installation.
2. Contractor is responsible to coordinate with 04A, 05A, 21A, 23A, 26A contractors for flashing, plumbing, sprinkler and electrical rough-ins. All structural support, flashing, counter flashing, etc... is to be provided by this contractor. In wall flashing or reglets required for this work is to be furnished by this contractor to the 04A contractor for installation prior to start of exterior façade work.
3. Contractor to include incidental caulking associated with this work for a complete system.

Mural Specific Scope:

1. Contractor shall furnish and install mural system in locations as show on contract documents. This scope of work will require that the wall area receive an extremely high finish. Please review material product data and installation instructions for proper install
2. Contractor/Installer shall be by a certified, trained and approved by the film manufacturer.
3. Contractor shall provide the eight-year warranty as outlined in the specifications.
4. Contractor shall inspect substrate prior to installation to ensure moisture content and surfaces are treated to meet manufacturers requirements.

Blinds and Shades Specific Scope:

1. Contractor to furnish and install all louvered blinds and roller shades (manual and electrical operated) including but not limited to proper louver slats, headrail/valance, bottom rail, tilt control, lift operation, cord lock position, ladders, mounting, colors, textures and gloss for a complete and operational installation.
2. Contractor to seal all screw holes and penetrations through window framing.
3. Contractor to acknowledges that every window, storefront, curtainwall, door lite, sidelite, transom etc.; every piece of glass within the building and building perimeter is to receive a louvered blind or shade, depending on location per specifications. This is in the event of a code red and associated security measures.
4. Contractor to coordinate with HM Frame and Aluminum Frame suppliers for method of attachment.
5. Contractor responsible for final adjustment, cleaning, and touch-up immediately prior to substantial completion.
6. Contractor to include own labor and equipment for unloading of deliveries, deliveries which arrive without contractor forces onsite will be immediately denied access to the site.
7. Contractor includes all incidental caulking related to this scope of work.

Site Amenities Specific Scope:

1. Contractor shall furnish and install the Pergolas **(i.e. front canopy)** ^{ADD#3} shown on sheet L502 in locations shown on the contract documents. Contractor shall provide all core drilling, anchoring materials, and the like to complete the installation of the items. Contractor to coordinate and install foundations required for these items.
2. Contractor shall furnish and install all footings required for items included in this scope.
3. All furnishings are to be installed level, plumb and true and securely anchored or positioned at locations as indicated on drawings.

Greenhouse Specific Scope:

1. Contractor to furnish and install all material and erection of the greenhouse superstructure including all glazing, doors and door hardware, and ventilation as shown on plans for a complete and operational installation.

2. Contractor to seal all areas where greenhouse contacts with dissimilar material as well as any sealants required for a complete installation.
3. Contractor shall include structural design signed and sealed by an engineer licensed in the state of Maryland. This design shall meet the Maryland IBC 2018 requirements.
4. Contractor shall include all necessary and required expansion control as well as any covers necessary or specified.
5. Contractor is responsible for all sill flashing where greenhouse meets foundation walls.
6. Contractor to furnish and install all exhaust fans, EVAP cooling system and heating system, horizontal air flow fans, retractable shade/heat retention curtain system, benchtop drip irrigation, automatic controls, supplemental plant growth lighting, overhead fixed lighting support system, environmental control system and benches.
7. Contractor to include own labor and equipment for unloading of deliveries, deliveries which arrive without contractor forces onsite will be immediately denied access to the site.
8. Contractor to include two year warranty on materials and workmanship and a preventative maintenance agreement that includes one trip per year scheduled through the greenhouse manufacturer.

Passenger Elevator Specific Scope:

1. Contractor to furnish and install a complete elevator system including but not limited to, rails, car frame and platform, doors, operator, call buttons, hall lanterns, pumps, sensors, piping, inserts, car enclosure, entrances, signal equipment, etc. Cars to be of "machine room-less", traction type, and meet all other requirements of section 14 24 00. Contractor to include the costs of all third party and state inspections.
2. Mechanical and Electrical final connections will be performed by others. Contractor shall provide all connectors, piping, integral wiring and piping, as well as all equipment connections, cords with plugs, etc., incidental to this phase of the work. Coordinate with Electrical and Mechanical Contractors to provide complete installation.
3. Contractor to coordinate floor finishes and recessed areas with Steel, Concrete, and Flooring Contractor(s).
4. Contractor will secure all necessary inspections as required by the applicable local or state agencies.
5. Contractor shall schedule all required inspections. Contractor shall coordinate with other trades regarding final inspections.
6. Contractor is to supply all necessary brackets, embeds, or other mounting hardware that must be installed concurrently with the Concrete Contractor or Masonry Contractor.
7. Contractor to coordinate all metal fabrications as required for installation of the lift systems and accessories including but not limited to attachment plates, structural steel shapes for sub-sills, sump pits and pit ladders.
8. Contractor to coordinate integration of the elevator systems with the fire control system including any necessary submittals to local or state fire control agencies.
9. Contractor to coordinate integration of the elevator systems with the electrical and voice systems.
10. It is understood that the elevator will be used for access to upper floors prior to substantial completion of the project. It is assumed this contractor will obtain a construction use permit, and therefore not install cab finishes until a second mobilization, at which time, upon completion of cab finishes, a final inspection will be obtained.

11. Contractor has included the cost for maintenance during the construction use period, Contractor to assume a construction use period of three (3) months. Actual usage will be tracked monthly via ticket and a contract adjustment, if necessary, will be made at scope completion.
12. Contractor to warrant the elevator systems per the specifications and has included the costs for the extended warranty of the construction use period.
13. Contractor to coordinate with Miscellaneous Metal Contractor and MEP Contractor(s) for location of pit ladder, sump pit, fire alarm devices, sprinkler heads and lighting.
14. Contractor to include forty (40) hours labor use of the platform by other trades to accomplish installation of all MEP devices and Sprinkler Head, Masonry Shaft point up, fire caulking etc. Actual hours will be tracked via ticket and a contract adjustment, if necessary, will be made at scope completion.
15. Contractor to provide pit layout as a separate submittal within two weeks of Letter of Intent, Notice to Award, or Contract, whichever is issued first.
16. Elevator cab flooring will be tile flooring, by others.
17. Contractor has included two mobilizations for installation of elevators in each phase.
18. Contractor has included three (3) days of standby time for observation of elevator during the first week school is open during school hours to ensure proper operation. This will be an additional mobilization which this contractor has included.
19. Contractor to coordinate with Electrical Contractor for fire alarm activation and integration with Elevator.
20. Elevator door key to be furnished to Construction Manager for access to pit after hours.
21. Contractor has included keyed switch operation. Contractor to furnish a minimum of twenty-five (25) keys (of each type and use) to Construction Manager at scope completion.

Responsibilities for Typical Parapet Walls

1. Responsibilities for Typical Parapet at CMU Back-up, Details D5, A5 /A431 (and other typical details) are assigned below:

- a) 04A – Air barrier, continuous air barrier transition membrane, rigid insulation, CMU, brick veneer and attachments. Install anchor bolts furnished by the 05A Contractor.
- b) 06A - Exterior fire rated plywood sheathing and blocking at top of parapet. Exterior fire rated plywood sheathing and blocking at both sides of parapet (if indicated), 2X wood blocking where required, batt insulation.
- c) 05A - Furnish anchor bolts to 04A.
- d) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1 /4” cover board over plywood.
- e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

2. Responsibilities for Typical Metal Panel Parapet at CMU Back-up, Details D5, A5 /A432, (and other typical details) are assigned below:

- a) 04A – Air barrier and continuous air barrier overlapping transition membrane. CMU. Rigid foam insulation. Mineral wool insulation. Install anchor bolts furnished by the 05A Contractor. Cont. STPE Sealant at termination bar. Thermal break cladding support system^{ADD#3},

- b) 06A – Exterior fire rated plywood sheathing and blocking at top and sides of the parapet. Exterior fire rated plywood sheathing and blocking and rigid foam board insulation, ~~mineral wool insulation at side low roof (detail A14/A432)~~^{ADD#3}. 2X wood blocking where required,
- c) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1/4" cover board over plywood. All flashings and counter-flashings.
- d) 07B – Metal panel system, thermal break cladding, mineral wool insulation at side low roof (~~see detail D14, A14/A432~~)^{ADD#3}, continuous air barrier transition membrane, 2-piece prefinished aluminum metal panel base, 18 GA Min galvanized sheet metal 05A –Furnish anchor bolts to 04A.
- e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

3. Responsibilities for Typical Parapet at Stud Wall Back-up, Details D9 & A9 /A431, (and other typical details) are assigned below:

- a) 04A – ~~Continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing. Rigid board insulation.~~^{ADD#3} Foamed in place insulation. ^{ADD#3} Brick veneer and attachments.
- b) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. 1/4" cover board over plywood.
- c) 06A – CFMF, batt insulation, 5/8" exterior gypsum sheathing, 5/8" exterior fire rated plywood sheathing, 2X wood blocking, 3/4" and 1/2" plywood on top of parapet, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing.^{ADD#3}
- d) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

4. Responsibilities for Typical Metal Panel Parapet at Stud Wall Back-up, Details D9 & A9 /A432 (and other typical details) are assigned below:

- a) ~~04A – Continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing. insulation.~~^{ADD#3}
- b) 06A - Exterior fire rated plywood sheathing and blocking at top of the parapet and side of wall, CFMF, batt insulation, 5/8" exterior gypsum sheathing all blocking, 3/4" and 1/2" plywood, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier~~mineral wool insulation.~~^{ADD#3}
- c) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. ~~3" cladding support system, metal panel system~~^{ADD#3}. 1/4" cover board over plywood.
- d) 05A – Furnish and install continuous galvanized steel bent plate at top of parapet wall.
- e) 07B – Metal panel system, thermal break cladding, mineral wool insulation at side low roof (detail D9 & A9/A432), ~~continuous air barrier transition membrane,~~^{ADD#3} 2-piece prefinished aluminum metal panel base,
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

5. Responsibilities for Typical Low Roof Studs w/ Metal Panel, Details D18 & A18 /A432 (and other typical details) are assigned below:

- a) ~~04A – Continuous air barrier overlapping transition membrane over 5/8" exterior gypsum sheathing. Foamed in place insulation.~~^{ADD#3}
- b) 06A – 3" rigid foam insulation, exterior fire rated plywood sheathing and blocking, rigid foam board insulation and mineral wool insulation below blocking, CFMF, batt insulation, 5/8" exterior gypsum sheathing, galvanized sheet metal angle, continuous air barrier and transition membrane.^{ADD#3}
- d) 07A –All flashings and counter-flashings (to include the SS receiver and counterflashing). ~~Mineral wool insulation at bottom of panel.~~^{ADD#3} 1/4" cover board over plywood and adhered membrane flashing

- e) 07B – Metal panel system, thermal break cladding, **thermal break cladding support system, continuous flexible flashing,**^{ADD#3} mineral wool insulation ~~at side low roof (detail D14 & A14/A432), continuous air barrier transition membrane~~^{ADD#3}, 2-piece prefinished aluminum metal panel base, continuous flexible flashing
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

Wheelchair Lift Specific Scope:

1. Contractor to furnish and install vertical platform lift with all accessories called for in locations indicated on the contract documents.
2. Contractor shall visually inspect area lift is to be installed prior to starting and confirm in writing that the area is acceptable. Once installation is started this will constitute acceptance and any deficiencies encountered will be the responsibility of this contractor.
3. Contractor includes all permits and inspections required by local jurisdictions.
4. Contractor includes all demonstrations and turnover documents.

Selective Demolition Scope^{ADD#3}

1. **Contractor shall provide all selective demolition indicated and as required for new work associated with the existing field house.**^{ADD#3}

SPECIAL CONSIDERATIONS:

1. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. Contractor is expected to provide a crew of the same size that is provided during Monday through Friday. No exceptions.**
2. This bid package has a MBE goal of _20_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, are required to attempt to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs, unless specifically called for in this scope, or a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 06A

WORK SCOPE CATEGORY 06B – Finish Carpentry, Millwork, Casework & Appliances

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all [Finish Carpentry, Millwork, Casework & Appliances](#) work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

<u>SECTION</u>	<u>NAME</u>
06 10 53	MISCELLANEOUS ROUGH CARPENTRY (as it relates to this scope)
06 40 23	INTERIOR ARCHITECTURAL WOODWORK
07 92 00	JOINT SEALANTS (as it relates to this scope)
08 71 00	DOOR HARDWARE (as it relates to this scope)
08 80 00	GLAZING (as it relates to this scope)
09 93 00	STAINING AND TRANSPARENT FINISHING
10 00 05	MISCELLANEOUS SPECIALTIES (as it relates to this scope)
10 56 13.23	CANTILEVER METAL LIBRARY SHELVING
11 00 05	MISCELLANEOUS EQUIPMENT (as it relates to this scope)
11 30 13	APPLIANCES
11 53 13	LABORATORY FUME HOODS
12 35 50	EDUCATIONAL CASEWORK
12 35 51	MUSICAL INSTRUMENT STORAGE CABINETS
12 35 53	WOOD LABORATORY CASEWORK
12 36 00	COUNTERTOPS
13 21 48	SOUND-CONDITIONED MUSIC PRACTICE ROOMS

Geotechnical Report issued by [ECS Mid Atlantic, LLC](#) dated [February 3, 2023](#), with addendum dated [March 21, 2023](#), for informational purposes only.

* Provide the temporary fit outs indicated in the drawings as well as the removal of the temporary conditions and complete finishes as part of Phase 2. If the Base Bid 2 option is selected, the temporary fit out work will not be required.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Interior Architectural Woodwork, Casework and Millwork Scope:

1. Contractor is to furnish and install all interior architectural woodwork including but limited to, architectural casework, educational casework, laboratory casework, laboratory fume hoods, music instrument storage, wood benches, casework hardware and accessories, interior standing and running trim, interior wood frames and jambs, wood cabinets, plastic laminate cabinets, custom casework, wood railings, shop finishing, laminate and solid surface countertops, closer kits, etc. This will include all items identified in the "Furnishings Schedule - General", "Furnish Schedule – Media Center", "Furnish Schedule - Music", "Furnishing Schedule – Countertops", and "Furnishing Schedule - Science" on sheet A800.

2. Contractor to furnish and install all finish carpentry items including but not limited to integral shelving and clothes rod, heavy duty shelving standards and brackets, all required hardware, piano hinges, coat hooks, racks, glazing, fasteners, etc... for a complete system.
3. Steps, both treads and risers, to stage/platform area in the Theater are assumed to be wood installed and finished by this contractor. Contractor shall furnish and install the stage/platform wood edge, proscenium and any wood paneling called for in the theater.
4. Contractor shall furnish and install of all high-pressure decorative laminate, solid surface, simulated stone countertops, as well as coordination with other trades as necessary for a complete and full installation.
5. Contractor to furnish and install all laboratory casework including but not limited to cabinet body panels, door and cabinet body edging, doors, back panels, shelving, end panels and hardware and epoxy countertops including all items identified in the "Furnishing Schedule – Science" on sheet A800. Contractor shall furnish and install the laboratory fume hoods with final electrical connections being made by the 26A contractor.
6. Contractor to furnish and install all music instrument storage casework including but not limited to cabinet body panels, door and cabinet body edging, doors, back panels, shelving, end panels and hardware. This will include all items identified in the "Furnishing Schedule - Music" on sheet A800.
7. Contractor to furnish and install all laminate clad educational casework including but not limited to cabinet body panels, door and cabinet body edging, doors, drawers, back panels, shelving, end panels and hardware including all items identified in the "Furnishing Schedule – General" on sheet A800.
8. Contractor to include all cutouts to accommodate sinks, faucet assemblies, electrical and data outlets and other hardware.
9. Contractor acknowledges and has included that all "backs and ends" will have finished ends if potentially exposed to view.
10. Contractor to furnish and install all adjustable wood shelving called for.
11. Contractor to furnish all art room casework and equipment including but not limited to cabinet body panels, door and cabinet body edging, doors, back panels, shelving, end panels and hardware. This will include all items identified in the "Art Equipment Schedule" on sheet A800.
12. Contractor to furnish and install sinks as directed by the construction documents. Contractor to furnish Plumbing contractor, mounting clips/kits for all sinks not furnished and installed under this scope of work. Final connection of mechanical, plumbing and electrical is by the respective contractor.
- ~~13. Contractor to perform all in-wall blocking requirements for support of materials furnished and installed by this contractor. Contractor to coordinate with 06A contractor prior to wall close-in. **In-wall blocking within metal stud walls for millwork/casework will be furnished and installed by the 06A Contractor. The 06B contractor shall furnish drawings to the 06A Contractor providing locations, and shall check installation prior to close-in. All other blocking required for installation of work provided by 06B will be performed by the 06B Contractor.**~~ ^{ADD#3}
14. Contractor to coordinate with vinyl/rubber base contractor for installation of work.
15. Contractor to include all hardware including keying requirements for all work provided within this scope of work, in accordance with respective specification section. No hardware will be provided by other trades to make this scope a work complete.

16. Contractor to provide all glass and glazing required for a complete installation of work provided under this contract. No glass or glazing will be provided by other trades to make this scope a work complete.
17. Contractor is responsible for all hardware necessary to anchor or affix its work in a permanent location.
18. Contractor is responsible for all unloading of material and required equipment to do so. Material which arrives on the project without proper personnel and or equipment to unload will be turned away by Construction Manager.
19. Contractor is responsible for coordination of all rough-in with MEP trades.
20. Contractor is responsible for all labor necessary to unload, place and install all work covered under this scope.
21. Contractor is responsible to take all packing, crating, etc... to dumpster(s) provided by Construction Manager or make other arrangements to remove from site.
22. Contractor is responsible to wipe down all surfaces after installation and provide temporary protection of materials as necessary. Contractor is responsible for removal and disposal of protection at Construction Manager's direction.

Cantilever Metal Library Shelving Specific Scope:

1. Contractor is to furnish and install all cantilever metal library shelving including but limited to, casework hardware and accessories, interior standing and running trim, interior wood frames and jambs, wood cabinets, plastic laminate cabinets, shop finishing, laminate and solid surface countertops, closer kits, etc.
2. The 06A Contractor will furnish and install blocking within metal studs which is covered by drywall, all other blocking for this package is by this contractor.
3. Contractor to furnish and install all media casework and equipment including but limited to shelving, label holders, leg based and mobile furniture, custom end panels, computer and reading tables, circulation desk, mobile units, etc... This will include all items identified in the "Media Casework Schedule" on sheet A800.
4. Contractor acknowledges and has included that all "backs and ends" will have finished ends if potentially exposed to view.
- ~~23. Contractor to perform all in-wall blocking requirements for support of materials furnished and installed by this contractor. Contractor to coordinate with 06A contractor prior to wall close-in. **In-wall blocking within metal stud walls for millwork/casework will be furnished and installed by the 06A Contractor. The 06B contractor shall furnish drawings to the 06A Contractor providing locations, and shall check installation prior to close-in. All other blocking required (i.e. not within stud walls) for installation of work provided by 06B will be performed by the 06B Contractor.**~~^{ADD#3}
5. —
6. Contractor to coordinate with vinyl/rubber base contractor for installation of work.
7. Contractor to include all hardware including keying requirements for all work provided within this scope of work, in accordance with respective specification section. No hardware will be provided by other trades to make this scope a work complete.
8. Contractor is responsible for all hardware necessary to anchor or affix its work in a permanent location.
9. Contractor is responsible for all unloading of material and required equipment to do so. Material which arrives on the project without proper personnel and or equipment to unload will be turned away by Construction Manager.

10. Contractor is responsible for all labor necessary to unload, place and install all work covered under this scope.
11. Contractor is responsible to take all packing, crating, etc... to dumpster(s) provided by Construction Manager, or make other arrangements to remove from site.
12. Contractor is responsible to wipe down all surfaces after installation and provide temporary protection of materials as necessary. Contractor is responsible for removal and disposal of protection at Construction Manager's direction.

Appliances Specific Scope:

1. Contractor to furnish and install all Commercial clothes washer and dryers as specified.
2. Contractor to furnish and install all Residential Equipment including the refrigerator/top freezers, electric dishwashers, electric ranges with self-cleaning ovens, ~~down draft~~ (Not required per Equipment Schedule on A800) electric cooktops, electric ovens, electric clothes washers, electric clothes dryers, compact refrigerator/freezers, flammable materials storage refrigerators/freezers (this is not listed on drawing A800 in any schedule), electric cooktops, ice machines, mobile changer, fume hood, etc... for a complete and fully functional installation. This will include all items identified in the "Equipment Schedule" on sheet A800.
3. Contractor to coordinate with 21A, 23A and 26A contractors for plumbing venting rough-ins, sprinkler head rough-ins, and electrical rough-ins respectively. Additional costs due to failure to properly coordinate all rough-ins for this equipment will be the responsibility of this contractor.
4. Contractor includes all warranties and guarantees per the specifications.
5. Contractor includes all colors per the specifications.
6. Contractor includes coordination for all built-in equipment.
7. Contractor includes all bolts, anchors, fasteners, etc... for a complete installation.
8. Contractor includes all incidental caulking associated with this work for a complete installation.
9. Final connections of all items supplied under this scope of work are by the 21A, 23A and 26A Contractors.
10. Contractor includes verification of proper clearances for all equipment being furnished under this scope for proper operation as well as verification all accessories have been installed and are functioning properly.
11. Contractor to include removal and disposal of all packing material to dumpster provided by Construction Manager.
12. Contractor to include final wipe down of all equipment furnished under this scope and leave units in clean condition, ready for use after final connections have been made by others.
13. Contractor to include own labor and equipment for unloading of deliveries, deliveries which arrive without contractor forces onsite will be immediately denied access to the site.
14. Contractor includes all costs for a factory authorized service representative to train all owner personnel to adjust, operate, and maintain all equipment furnished under this scope of work.

Miscellaneous Equipment Specific Scope:

1. Contractor shall furnish and install kiln, kiln hood, kiln ventilator, ice machine, changing table, science equipment, miscellaneous room equipment and furnishings and handicapped access darkroom door including but not limited to fasteners and accessories for a complete installation.

Sound-Conditioned Music Practice Room Specific Scope:

1. Contractor to furnish and install all sound-conditioned music practice rooms including but not limited to neoprene floor seals, door with vision light, corner posts with integrated speaker enclosures and wiring, wall panels with integrated wiring and mountings for microphones, ceiling frame, ceiling panels, integrated ventilation, illumination, system control and power and signal distribution systems and access raceways for signal distribution systems.
2. Contractor to install with personnel that meet the installer qualifications outlined in the specifications.
3. Contractor to provide special warranty as outlined in the specifications for a period of 5-years from the date of substantial completion.

SPECIAL CONSIDERATIONS:

1. Contractor includes all incidental caulking associated with this work for a complete and finished installation.
2. This bid package has an MBE goal of _20_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, are required to attempt to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs unless specifically called for in this scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 06B

WORK SCOPE CATEGORY 07A – Roofing

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all [Roofing](#) work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

<u>SECTION</u>	<u>NAME</u>
05 12 00	STRUCTURAL STEEL FRAMING (for coordination purposes)
05 12 13	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING (for coordination purposes)
05 21 00	STEEL JOIST FRAMING (for coordination purposes)
05 40 00	COLD-FORMED METAL FRAMING (for coordination purposes)
05 50 00	METAL FABRICATIONS (for coordination purposes)
06 10 00 53	<u>MISCELLANEOUS</u> ROUGH CARPENTRY (as it relates to this scope) ^{ADD#3}
07 21 00	THERMAL INSULATION (as it relates to this scope)
07 41 13.16	STANDING SEAM METAL ROOF PANELS
07 54 23	THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
07 62 00	SHEET METAL FLASHING AND TRIM
07 71 00	ROOF SPECIALTIES
07 71 29	MANUFACTURED ROOF EXPANSION JOINTS
07 72 00	ROOF ACCESSORIES
07 92 00	JOINT SEALANTS (as it relates to this scope)
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (as it relates to this scope)

Geotechnical Report issued by [ECS Mid Atlantic, LLC](#) dated [February 3, 2023](#), with addendum dated [March 21, 2023](#), for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Roofing Specific Scope:

1. Contractor is responsible for own removal of trash associated with this scope of work from work area to dumpsters provided by this contractor.
2. Contractor shall furnish and install all roof hatches, roofing accessories, insulation (as it relates to roofing), ~~built-up asphalt roofing~~ ^{ADD#3}, bituminous vapor retarder, perlite, roofing cement, glass fiber fabric, preformed edge strips, flashing, counter-flashing (as it relates to roofing), sheet metal (as it relates to roofing), surfacing aggregate and or colored cap sheet, gravel stops, walkway protection pads, mastic sealant, ~~asphaltic~~ ^{ADD#3} primer, fasteners, cant strips, cleats, temporary roofing, metal wall copings, metal roof panels, soffit panels, fascia, reglets, reglets with insect screen, gutters, downspouts, ~~roof screening, RTU screening~~ ^{ADD#3}, expansion joints/covers located at and/or within the roofing system, joint sealants (as it relates to roofing), and the like as required by the Contract Documents.

- ~~3. Roof screening will be by this contractor, structural steel attachment for roof screens and roof top units will be provided by the 05A contractor.~~^{ADD#3}
4. Light gauge framing, blocking, dens-glass at parapet, are the responsibility of the 06A Contractor. This contractor is responsible for moisture and/or air barriers at the exterior.
5. Contractor shall provide for and coordinate all manufacturers' testing and inspections and final certifications.
6. Contractor shall review all documents for locations of openings and penetrations in the roof system that will be required by others. Contractor shall furnish and install all opening and penetration sealer requirements for these openings, Contractor will be responsible for making weather tight, all openings and penetrations thru the roofing.
7. Contractor shall furnish and install all sealants and caulking necessary for and incidental to a complete roofing installation package as required by the Contractor Documents. At the Construction Manager's discretion, roofing will be held back and temporarily sealed from the building's edge, prior to completion of exterior or above roofline masonry or metal stud work where appropriate and practical. Contractor shall fill these areas and complete roofing when work of other trades is complete, at no extra cost. All temporary seals shall conform to manufacturer's recommendations and specifications.
8. In the event roofing expansion joints are required by the manufacturer but not detailed on the contract drawings, the Contractor shall be responsible for all costs associated to add these joints. This includes, but is not limited to, carpentry, roofing and trim.
9. Contractor shall furnish and install boots and/or pitch pockets for all roof penetrations, including flashing, hardware and clamps to make a completely watertight roofing system.
10. Contractor is responsible to have work certified by manufacturer's representative for proper installation.
11. Wood blocking will be performed by the 06A contractor to the extent of what is shown on the contract documents. Additional wood blocking required to meet particular roofing manufacturers requirements that is not shown on the Contract documents is the responsibility of the 07A contractor. In the event less wood blocking is required then what is shown on the contract documents in order to meet a particular roofing manufacturers requirement a deduct credit will be issued by the 06A contractor for unused labor and materials.
12. The 05A Contractor is to furnish for installation by this contractor all insulation for the acoustical metal decking. Unloading, hoisting, etc... is the responsibility of this contractor.
13. Contractor shall furnish and install all ~~roof curbs~~^{ADD#3}, equipment supports, roof hatches, heat and smoke vents, pipe and duct supports, and pipe portals required by the contract documents.

Responsibilities for Typical Parapet Walls

1. Responsibilities for Typical Parapet at CMU Back-up, Details D5, A5 /A431 (and other typical details) are assigned below:
 - a) 04A – Air barrier, continuous air barrier transition membrane, rigid insulation, CMU, brick veneer and attachments. Install anchor bolts furnished by the 05A Contractor.
 - b) 06A - Exterior fire rated plywood sheathing and blocking at top of parapet. Exterior fire rated plywood sheathing and blocking at both sides of parapet (if indicated), 2X wood blocking where required, batt insulation.
 - c) 05A - Furnish anchor bolts to 04A.
 - d) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1 1/4" cover board over plywood.
 - e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before

completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

2. Responsibilities for Typical Metal Panel Parapet at CMU Back-up, Details D5, A5 /A432, (and other typical details) are assigned below:

- a) 04A – Air barrier and continuous air barrier overlapping transition membrane. CMU. Rigid foam insulation. Mineral wool insulation. Install anchor bolts furnished by the 05A Contractor. Cont. STPE Sealant at termination bar. ~~Thermal break cladding support system~~ ^{ADD#3},
- b) 06A – Exterior fire rated plywood sheathing and blocking at top and sides of the parapet. Exterior fire rated plywood sheathing and blocking and rigid foam board insulation, ~~mineral wool insulation at side low roof (detail A14/A432)~~ ^{ADD#3}. 2X wood blocking where required,
- c) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1 1/4" cover board over plywood. All flashings and counter-flashings.
- d) 07B – Metal panel system, thermal break cladding, mineral wool insulation at side low roof (~~see detail D14, A14/A432~~) ^{ADD#3}, continuous air barrier transition membrane, 2-piece prefinished aluminum metal panel base, 18 GA Min galvanized sheet metal 05A –Furnish anchor bolts to 04A.
- e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

3. Responsibilities for Typical Parapet at Stud Wall Back-up, Details D9 & A9 /A431, (and other typical details) are assigned below:

- a) 04A – ~~Continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing. Rigid board insulation~~ ^{ADD#3} Foamed in place insulation. ^{ADD#3} Brick veneer and attachments.
- b) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. 1 1/4" cover board over plywood.
- c) 06A – CFMF, batt insulation, 5/8" exterior gypsum sheathing, 5/8" exterior fire rated plywood sheathing, 2X wood blocking, 3/4" and 1/2" plywood on top of parapet, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing. ^{ADD#3}
- d) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

4. Responsibilities for Typical Metal Panel Parapet at Stud Wall Back-up, Details D9 & A9 /A432 (and other typical details) are assigned below:

- a) ~~04A – Continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing. insulation.~~ ^{ADD#3}
- b) 06A - Exterior fire rated plywood sheathing and blocking at top of the parapet and side of wall, CFMF, batt insulation, 5/8" exterior gypsum sheathing all blocking, 3/4" and 1/2" plywood, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier ~~mineral wool insulation.~~ ^{ADD#3}
- c) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. ~~3" cladding support system, metal panel system~~ ^{ADD#3}. 1 1/4" cover board over plywood.
- d) 05A – Furnish and install continuous galvanized steel bent plate at top of parapet wall.
- e) 07B – Metal panel system, thermal break cladding, mineral wool insulation ~~at side low roof~~ (detail D9 & A9/A432), ~~continuous air barrier transition membrane,~~ ^{ADD#3} 2-piece prefinished aluminum metal panel base,
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

5. Responsibilities for Typical Low Roof Studs w/ Metal Panel, Details D18 & A18 /A432 (and other typical details) are assigned below:

- a) ~~04A – Continuous air barrier overlapping transition membrane over 5/8” exterior gypsum sheathing. Foamed in place insulation.~~^{ADD#3}
- b) 06A – 3” rigid foam insulation, exterior fire rated plywood sheathing and blocking, rigid foam board insulation and mineral wool insulation below blocking, CFMF, batt insulation, 5/8” exterior gypsum sheathing, galvanized sheet metal angle, continuous air barrier and transition membrane.^{ADD#3}
- d) 07A – All flashings and counter-flashings (to include the SS receiver and counterflashing). ~~Mineral wool insulation at bottom of panel.~~^{ADD#3} 1/4” cover board over plywood and adhered membrane flashing
- e) 07B – Metal panel system, thermal break cladding, thermal break cladding support system, continuous flexible flashing.^{ADD#3} mineral wool insulation at side low roof (detail D14 & A14/A432), ~~continuous air barrier transition membrane~~^{ADD#3}, 2-piece prefinished aluminum metal panel base, continuous flexible flashing
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

SPECIAL CONSIDERATIONS:

1. Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. Contractor is expected to provide a crew of the same size that is provided during Monday through Friday. No exceptions.
2. Contractor is fully aware and has properly taken into account alternates may affect his package.
3. This bid package has an MBE goal of _15_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, are required to attempt to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs unless specifically called for in this scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 07A

WORK SCOPE CATEGORY 07B – Metal Wall Panel

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all [Metal Wall Panel](#) work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

<u>SECTION</u>	<u>NAME</u>
07 21 00	THERMAL INSULATION
07 24 19	WATER DRAINAGE EXTERIOR INSULATION & FINISH SYSTEM (EIFS)
07 42 13.13	FORMED METAL WALL PANELS
07 42 13.19	INSULATED METAL WALL PANELS
07 42 13.23	METAL COMPOSITE MATERIAL WALL PANELS
07 48 13	THERMAL BREAK CLADDING SUPPORT SYSTEMS
07 91 00	PREFORMED JOINT SEALS (as it relates to this scope)
07 92 00	JOINT SEALANTS (as it relates to this scope)
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (as it relates to this scope)

Geotechnical Report issued by [ECS Mid Atlantic, LLC](#) dated [February 3, 2023](#), with addendum dated [March 21, 2023](#), for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Metal Wall Panel Specific Scope:

1. Contractor is responsible for own removal of trash associated with this scope of work from work area to dumpsters provided by Construction Manager.
2. Contractor shall furnish and install all metal wall panels, subframing/support system, mineral wool, expansion joints/covers located at and/or within the wall panel system, joint sealants (as it relates to roofing), and the like as required by the Contract Documents.
3. Roof screening will be by this contractor, structural steel attachment for roof screens and roof top units will be provided by the 05A contractor.
4. Light gauge framing, blocking, dens-glass, are the responsibility of the 06A Contractor. This contractor is responsible for moisture and/or air barriers at the exterior.
5. Contractor shall furnish and install all metal panels and flashings. Any access doors required with the metal panels shall be provided and installed by this contractor.
6. Contractor shall furnish and install roofing screen complete. Note this will require a separate mobilization as this work will not be installed until after all other roof related work is 100% complete.

7. Contractor shall provide for and coordinate all manufacturers' testing and inspections and final certifications.
8. Contractor shall review all documents for locations of openings and penetrations in the Wall Panel System that will be required by others. Contractor shall furnish and install all opening and penetration sealer requirements for these openings, Contractor will be responsible for making weather tight, all openings and penetrations thru the wall panels.
9. Contractor shall furnish and install all sealants and caulking necessary for and incidental to a complete wall panel installation package as required by the Contractor Documents. Contractor will be responsible for final caulking between metal wall panels and other materials for a finished product.
10. Contractor shall furnish and install flashing, hardware and clamps to make a completely watertight wall panel system where panels meet the curtainwall and storefront system.
11. Contractor is responsible to have work certified by manufacturer's representative for proper installation.
12. Wood blocking will be performed by the 06A contractor to the extent of what is shown on the contract documents. Any additional blocking required will be by this contractor.
13. Contractor shall furnish all warranties required by the contract documents.

Responsibilities for Typical Parapet Walls

1. Responsibilities for Typical Parapet at CMU Back-up, Details D5, A5 /A431 (and other typical details) are assigned below:

- a) 04A – Air barrier, continuous air barrier transition membrane, rigid insulation, CMU, brick veneer and attachments. Install anchor bolts furnished by the 05A Contractor.
- b) 06A - Exterior fire rated plywood sheathing and blocking at top of parapet. Exterior fire rated plywood sheathing and blocking at both sides of parapet (if indicated), 2X wood blocking where required, batt insulation.
- c) 05A - Furnish anchor bolts to 04A.
- d) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1 /4" cover board over plywood.
- e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

2. Responsibilities for Typical Metal Panel Parapet at CMU Back-up, Details D5, A5 /A432, (and other typical details) are assigned below:

- a) 04A – Air barrier and continuous air barrier overlapping transition membrane. CMU. Rigid foam insulation. Mineral wool insulation. Install anchor bolts furnished by the 05A Contractor. Cont. STPE Sealant at termination bar. ~~Thermal break cladding support system~~ ^{ADD#3},
- b) 06A – Exterior fire rated plywood sheathing and blocking at top and sides of the parapet. Exterior fire rated plywood sheathing and blocking and rigid foam board insulation, ~~mineral wool insulation at side low roof (detail A14/A432)~~ ^{ADD#3}. 2X wood blocking where required,
- c) 07A – Adhered membrane flashing, flashing strip, closed cell backer rod, pre-finished aluminum coping. 1 /4" cover board over plywood. All flashings and counter-flashings.
- d) 07B – Metal panel system, thermal break cladding, mineral wool insulation at side low roof (~~see detail D14, A14/A432~~) ^{ADD#3}, continuous air barrier transition membrane, 2-piece prefinished aluminum metal panel base, 18 GA Min galvanized sheet metal 05A –Furnish anchor bolts to 04A.
- e) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

3. Responsibilities for Typical Parapet at Stud Wall Back-up, Details D9 & A9 /A431, (and other typical details) are assigned below:

- a) 04A – ~~Continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing. Foamed in place insulation.~~ ^{ADD#3} Rigid board insulation. Brick veneer and attachments.
- b) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. 1/4" cover board over plywood.
- c) 06A – CFMF, batt insulation, 5/8" exterior gypsum sheathing, 5/8" exterior fire rated plywood sheathing, 2X wood blocking, 3/4" and 1/2" plywood on top of parapet, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing. ^{ADD#3}
- d) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

4. Responsibilities for Typical Metal Panel Parapet at Stud Wall Back-up, Details D9 & A9 /A432 (and other typical details) are assigned below:

- a) ~~04A – Continuous air barrier transition membrane and air barrier over 5/8" exterior gypsum sheathing. insulation.~~ ^{ADD#3}
- b) 06A - Exterior fire rated plywood sheathing and blocking at top of the parapet and side of wall, CFMF, batt insulation, 5/8" exterior gypsum sheathing all blocking, 3/4" and 1/2" plywood, metal studs, metal stud slide clip, continuous air barrier transition membrane and air barrier. ~~mineral wool insulation.~~ ^{ADD#3}
- c) 07A – Adhered membrane flashing, flashing strip, backer rod, pre-finished aluminum coping. ~~3" cladding support system, metal panel system~~ ^{ADD#3}. 1/4" cover board over plywood.
- d) 05A – Furnish and install continuous galvanized steel bent plate at top of parapet wall.
- e) 07B – Metal panel system, thermal break cladding, mineral wool insulation ~~at side low roof~~ (detail D9 & A9/A432), ~~continuous air barrier transition membrane,~~ ^{ADD#3} 2-piece prefinished aluminum metal panel base,
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

5. Responsibilities for Typical Low Roof Studs w/ Metal Panel, Details D18 & A18 /A432 (and other typical details) are assigned below:

- a) ~~04A – Continuous air barrier overlapping transition membrane over 5/8" exterior gypsum sheathing. Foamed in place insulation.~~ ^{ADD#3}
- b) 06A – 3" rigid foam insulation, exterior fire rated plywood sheathing and blocking, rigid foam board insulation and mineral wool insulation below blocking, CFMF, batt insulation, 5/8" exterior gypsum sheathing, galvanized sheet metal angle, continuous air barrier and transition membrane. ^{ADD#3}
- d) 07A – All flashings and counter-flashings (to include the SS receiver and counterflashing). ~~Mineral wool insulation at bottom of panel.~~ ^{ADD#3} 1/4" cover board over plywood and adhered membrane flashing
- e) 07B – Metal panel system, thermal break cladding, thermal break cladding support system, continuous flexible flashing. ^{ADD#3} mineral wool insulation ~~at side low roof (detail D14 & A14/A432),~~ ^{ADD#3} continuous air barrier ~~transition membrane~~ ^{ADD#3}, 2-piece prefinished aluminum metal panel base, continuous flexible flashing
- f) Insulation shall be protected by the installing contractor to ensure a weathertight condition and that the insulation is protected from the elements. Should insulation be compromised after installation and before completion of the finished system, it will be the responsibility of the installing Contractor to remove and replace it at no additional cost to the Owner.

SPECIAL CONSIDERATIONS:

1. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. Contractor is expected to provide a crew of the same size that is provided during Monday through Friday. No exceptions.**
2. Contractor is fully aware and has properly taken into account alternates may affect his package.
3. This bid package has an MBE goal of _10_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, are required to attempt to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs, unless specifically called for in this scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 07B

WORK SCOPE CATEGORY 08B – Glass, Glazing and Sunscreens

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all [Glass, Glazing and Sunscreens](#) work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

<u>SECTION</u>	<u>NAME</u>
05 40 00	COLD-FORMED METAL FRAMING (for coordination purposes)
06 10 53	MISCELLANEOUS ROUGH CARPENTRY (as it relates to this scope)
06 68 00	FIBERGLASS REINFORCED PLASTIC FABRICATIONS
07 21 00	THERMAL INSULATION (as it relates to this scope)
07 21 60	STRUCTURAL THERMAL BREAK (as it relates to this scope) ^{ADD#3}
07 84 13	PENETRATION FIRESTOPPING (as it relates to this scope)
07 84 43	JOINT FIRESTOPPING
07 91 00	PREFORMED JOINT SEALS (as it relates to this scope)
07 92 00	JOINT SEALANTS (as it relates to this scope)
07 92 19	ACOUSTICAL JOINT SEALANTS (as it relates to this scope)
<u>08 11 16</u>	<u>ALUMINUM FLUSH DOORS</u> ^{ADD#3}
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 44 13	GLAZED ALUMINUM CURTAIN WALLS
08 45 00	TRANSLUCENT SINGLE PANEL WALL CLADDING ASSEMBLIES
08 71 00	DOOR HARDWARE (for coordination purposes) <u>(as it relates to this scope)</u> ^{ADD#3}
08 80 00	GLAZING
08 83 00	MIRRORS (as it relates to this scope)
08 87 00	GLAZING SURFACE FILMS
08 88 13	FIRE-RATED GLAZING
10 00 05	MISCELLANEOUS SPECIALTIES (as it relates to this scope)

Geotechnical Report issued by [ECS Mid Atlantic, LLC](#) dated [February 3, 2023](#), with addendum dated [March 21, 2023](#), for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Glass Specific Scope:

1. Contractor shall furnish and install all aluminum curtain walls, entrances, windows, and storefronts required by the Contract Documents, including but not limited to panels, sills, metal covers, break metal, rails, styles, mullions, metal panels in 8B assemblies, louvers in 8B assemblies, aluminum support angle, glass, glazing, fire rated glass, sealants, integral screens, integral and surface applied sunshades, hardware as noted, interior and exterior caulking of work in this package, insulation around all work in this package as detailed or specified, concealed flashing, brackets, weather-stripping, mullions, vent sections, thermal barriers, thresholds, gaskets, glazing tapes, and all other items required by the Contract Documents to provide a complete installation.
2. Contractor includes caulking of all interior and exterior perimeter of storefront, curtainwalls and windows furnished and installed under this scope of work.

3. The ~~Construction Manager~~ **6A Contractor** ^{ADD#3} shall furnish all hardware for entrances to this contractor to install in your system per specifications (panic bars, closers, hinges, locksets, etc...). All other required curtainwall, storefront and window integral hardware is to be by this contractor. Final keying will be performed by the Construction Manager.
4. Contractor shall furnish all embeds required by this contract to those Contractors responsible for placement of embeds.
5. Contractor shall furnish and install all glass and glazing as required by the Contract Documents. Contractor shall furnish and install all borrowed lites, glass, and glazing for all hollow metal windows, hollow metal doors, and wood doors, and non framed mirror glass, inclusive of acoustical glass as required by the Contract Documents. Hollow metal window frames, hollow metal door frames, wood doors, and hollow metal doors will be furnished and installed by others.
6. Contractor includes furnish and installation of all mirrors inclusive of setting blocks, edge sealer, mirror mastic, mirror hardware, trim, fasteners, and anchors. Contractor includes field verification of all sizes prior to fabrication as well as all cutouts, edge treatments, and film backing for safety mirrors.
7. Contractor includes furnish and installation of all exterior horizontal and vertical sunscreens as detailed on the construction documents. Contractor to coordinate with 04A contractor for any additional embeds required for clean installation. Contractor includes miscellaneous and incidental caulk associated with this work.
8. Contractor shall furnish and install anchors, fasteners, shims and all other attachment items necessary for complete installation.
9. Contractor shall coordinate with Masonry, Metals, and Gypsum/Acoustic Assemblies Contractors regarding aluminum window opening sizes and locations and verify rough opening sizes prior to finalization of orders.
10. Contractor shall provide complete glass and glazing of exterior hollow metal doors and frames within thirty (30) days notice for the Construction Manager.
11. Contractor shall, when glazing wood door lites, set all nails and putty all holes to match. Contractor shall furnish and install any blocking or concealed provisions necessary to anchor its work under this package.
12. Contractor shall remove all labels and stickers for windows and glazing once installation is complete. Contractor shall return to the job one week before the Substantial completion date and repair any broken glass at no additional cost.
13. Contractor includes furnish and installation of all fire rated joint systems between curtain wall and masonry, or drywall assemblies as required.
14. Contractor shall furnish and install continuous fiberglass reinforced plastic angles at openings as indicated on documents where exterior wall is masonry.
15. Contractor shall coordinate and participate in all required testing for this scope of work.
16. **Contractor shall furnish and install all pre-finished aluminum closures at walls abutting glazing systems.** ^{ADD#3}

Miscellaneous Specialties Scope:

1. Contractor shall furnish and install all ticket window, sliding pass through windows, and specimen pass through complete including but limited to, exposed fasteners, concealed fasteners, etc.... as indicated on the contract documents. Contractor to include all own blocking for this work.
2. Contractor to include own labor and equipment for unloading of deliveries, deliveries which arrive without contractor forces onsite will be immediately denied access to the site.
3. Contractor includes all incidental caulking associated with this work for a complete installation.

4. Contractor responsible for final cleaning and adjustment of materials furnished under this contract immediately prior to substantial completion.

SPECIAL CONSIDERATIONS:

1. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. Contractor is expected to provide a crew of the same size that is provided during Monday through Friday. No exceptions.**
2. Contractor is fully aware and has properly taken into account alternates may affect his package.
3. This bid package has a MBE goal of _5_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, are required to attempt to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs, unless specifically called for in this scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 08B

WORK SCOPE CATEGORY 23A – Mechanical & Plumbing

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all **Mechanical & Plumbing** work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

<u>SECTION</u>	<u>NAME</u>
02 41 19	SELECTIVE DEMOLITION (as it relates to this scope)
07 84 13	PENETRATION FIRESTOPPING (as it relates to this scope)
07 84 43	JOINT FIRESTOPPING (as it relates to this scope)
07 91 00	PREFORMED JOINT SEALS (as it relates to this scope)
07 92 00	JOINT SEALANTS (as it relates to this scope)
07 92 19	ACOUSTICAL JOINT SEALANTS (as it relates to this scope)
08 31 13	ACCESS DOORS AND PANELS (as it relates to this scope)

DIVISION 21 – FIRE PROTECTION (in its entirety for coordination purposes and as sections relate to this scope)

DIVISION 22 – PLUMBING

22 05 00	COMMON WORK RESULTS PLUMBING
22 05 13	COMMON MOTOR REQUIREMENTS PLUMBING EQUIPMENT PERMIT
22 05 19	METERS GAUGES PLUMBING PIPING PERMIT
22 05 23	GENERAL DUTY VALVES PLUMBING PIPING
22 05 29	HANGERS SUPPORTS PLUMBING PIPING & EQUIPMENT
22 05 33	HEAT TRACING FOR PLUMBING PIPING
22 05 48	VIBRATION CONTROLS FOR PLUMBING PIPING & EQUIPMENT
22 05 53	ID FOR PLUMBING PIPING & EQUIPMENT
22 07 00	PLUMBING INSULATION
<u>22 08 00</u>	<u>PLUMBING SYSTEMS COMMISSIONING</u> ^{ADD#3}
22 11 16	DOMESTIC WATER PIPING
22 11 19	DOMESTIC WATER PIPING SPECIALTIES
22 11 23	DOMESTIC WATER PUMPS
22 13 16	SANITARY WASTE & VENT PIPING
22 13 19	SANITARY WASTE PIPING SPECIALTIES
22 14 13	FACILITY STORM DRAINAGE PIPING
22 14 23	STORM DRAINAGE PIPING SPECIALTIES
22 14 29	SUMP PUMPS
22 33 00	ELECTRIC DOMESTIC WATER HEATERS
22 40 00	PLUMBING FIXTURES
22 45 00	EMERGENCY PLUMBING FIXTURE
22 47 00	WATER COOLERS
22 63 23	FACILITY LIQUEFIED PETROLEUM GAS PIPING
22 66 59	LABORATORY UTILITY SHUTOFF SYSTEMS

DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING

23 05 00	COMMON WORK RESULTS HVAC
23 05 13	COMMON MOTOR REQUIREMENTS HVAC EQUIPMENT
23 05 15	VARIABLE FREQUENCY MOTOR CONTROLLERS
23 05 16	EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING-20039
23 05 19	METERS & GAUGES HVAC PIPING
23 05 23	GENERAL DUTY VALVES HVAC PIPING
23 05 29	HANGERS & SUPPORTS HVAC PIPING & EQUIPMENT
23 05 48	VIBRATION & SEISMIC CONTROLS HVAC PIPING & EQUIPMENT
23 05 53	ID HVAC PIPING & EQUIPMENT
23 05 93	TESTING ADJUSTING BALANCING HVAC
23 07 00	HVAC INSULATION

<u>23 08 00</u>	<u>HVAC SYSTEMS COMMISSIONING</u> ^{ADD#3}
23 09 00	NEW INSTRUMENTATION & CONTROL FOR HVAC
23 21 13	HYDRONIC PIPING
23 21 13.33	GROUND LOOP HEAT PUMP-PIPING
23 21 23	HYDRONIC PUMPS
23 23 00	REFRIGERANT PIPING
23 25 00	HVAC WATER TREATMENT
23 31 13	METAL DUCTS
23 33 00	AIR DUCT ACCESSORIES
23 34 23	HVAC POWER VENTILATORS
23 37 13	DIFFUSERS REGISTERS & GRILLES
23 37 23	HVAC GRAVITY VENTILATORS
23 37 33	SPECIAL EXHAUST SYSTEMS
23 41 00	PARTICULATE AIR FILTRATION
23 72 00	ENERGY RECOVERY UNIT
23 73 33	OUTDOOR HEATING & VENTILATING UNITS
23 81 26	SPLIT SYSTEM AIR CONDITIONERS
23 81 46	WATER-SOURCE UNITARY HEAT PUMPS
23 82 16.14	ELECTRIC-RESISTANCE AIR COILS
23 82 36	FINNED-TUBE RADIATION HEATERS
23 82 39	UNIT HEATERS
23 82 39.13	CABINET UNIT HEATERS
23 82 39.19	WALL & CEILING UNIT HEATERS

DIVISION 26, 27 & 28 - ELECTRICAL (in its entirety for coordination purposes and as sections relate to this scope)

31 20 00 **EXCAVATING FILLING AND GRADING (as it relates to this scope)** ^{ADD#3}

Geotechnical Report issued by [ECS Mid Atlantic, LLC](#) dated February 3, 2023, with addendum dated March 21, 2023, for informational purposes only.

* Provide the temporary fit outs indicated in the drawings as well as the removal of the temporary conditions and complete finishes as part of Phase 2. If the Base Bid 2 option is selected, the temporary fit out work will not be required.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Mechanical and Plumbing Specific Scope:

1. As the Construction Manager, HESS shall manage the use of construction coordination models throughout the construction process. All BIM-related information shall be exchanged through the BIM FTP site managed by HESS. Each contractor shall be responsible to coordinate his work with each trade. However, the Mechanical contractor will be responsible to lead the coordination process. HESS shall play the role of the Quality Control Manager during this process. Utilizing design models created by A/E and fabrication/coordination models prepared and submitted by the listed trade contractors, HESS will maintain an up-to-date Federated model throughout the construction phase. The Federated model will be used to fully and properly coordinate and sequence the work of the trades, to maximize efficiencies during construction. Conflicts in the layout and sequencing of the work will be discussed and resolved in a series of periodic construction coordination meetings.

All Steel, Mechanical, Plumbing, Electrical and Fire Protection contractors will be required to prepare 3D coordination models compatible with latest AutoCAD and Navisworks software. For clash detection to work properly, all models shall have a common reference point which shall be derived from the Architectural Design Model. All costs shall be included in the contractors bid. Contract architectural, MEP and structural drawings (3D) will be available electronically from the designated FTP site. During the construction phase these individual fabrication models shall be combined to create a Federated Construction Coordination model. BIM processes such as clash detection, submittals, trade sequencing, etc. will be done using the Construction Coordination model. The shop drawings submitted for records and approval will be generated from the Construction Coordination model or from individual models therein. The Construction Coordination model will be updated and maintained throughout construction to create an accurate as-built digital record of the construction of the project. The as-built BIM will be conveyed to the Owner on completion of construction, as a tool to assist owner in facility operation and maintenance.

The Mechanical contractor will take the lead and develop a drawing list for approval by the Construction Manager subdividing the building into separate areas. The drawing list will be for submission and will indicate a submission schedule coordinated with the construction activities. The drawings shall be developed in a sequential fashion so as to not delay installation of the work or the overall project schedule. The Construction Manager shall prepare a schedule identifying the activity and duration of each submission. The Mechanical contractor will call meetings, weekly, or as required, which all required contractors must attend to avoid delay. Such meeting can be held via web conference if agreed upon mutually by all parties. Failure to attend will require the contractor to field run the work not coordinated. No extra compensation will be paid to any contractor for relocating any equipment, duct, pipe, conduit, or other material that has been installed without proper coordination. If the installation of any uncoordinated work or improper installation or coordinated work necessitates additional work by other contractors, the cost of such additional work shall be assessed to the contractor responsible as determined by the Construction Manager. Where conflicts are found in the Model, regardless of the phase of the Project or LOD, the discovering party shall promptly notify the Model Element Author(s). Upon such notification, the Model Element Author shall act promptly to mitigate the conflict. At the conclusion of each coordination phase, the Mechanical contractor will notify the Construction Manager whereupon an onsite coordination meeting will be scheduled for the purpose of signing off on each respective area. After the review and approval of coordination in 3D, the Mechanical contractor shall provide one color composite set of drawings and forward them to the Construction Manager. In the preparation of all the final composite drawings, large scale details as well as cross and longitudinal sections shall be made as required to fully delineate all conditions. Particular attention shall be given to the locations, size and clearance dimensions of equipment items, shafts, and similar features. The final composite drawings shall include the locations of all controls, tie-ins, connections for other subcontractor's work, and pipe and duct insulation as required. Each trade contractor indicating their acceptance and approval of the indicated routings and layouts and their relationship with the adjoining or contiguous work of all contractors shall then sign off these final composite drawings. Therefore, no unauthorized deviations will be permitted. If deviations are made without the knowledge and agreement of the Construction Manager and other affected contractors, the work in question will be subject to removal and correction at no additional cost to the Owner.

2. After final composite drawings have been accepted and approved, the Mechanical contractor shall print one (1) color copy to be signed by all contractors. The Mechanical contractor shall provide the composite drawings digitally to all contractors through the HESS FTP site and will also submit two (2) set of prints for submittal purposes to the Construction Manager. The original signed off drawing shall be sent to the Construction Manager for permanent possession. No contractor will be authorized to release any material for fabrication or installation until the composite drawing(s) has been prepared and the signature process is executed and approved by the Construction Manager.
3. Contractor shall furnish and install all indirect drain piping from all air handling units, pumps, and the like complete with hangers and insulation as required to the nearest floor drain or as directed by the documents.
4. Contractor shall review and comply fully with the Building Information Modeling (BIM) requirements detailed in the general scope.
5. Contractor shall furnish for installation by 06A all access doors and frames in all walls, floors, and ceilings as required for its work under this contract whether they are indicated in the contract documents or not. Contractor shall coordinate the locations of all access doors with the Construction Manager and the 06A Contractor.

6. Contractor shall make the final connection to all underground utilities (except electrical, telephone, and cable). Contractor shall extend its piping (water, storm, sanitary, gas) from the building (and structures connected to the building such as canopies) to a point five (5) feet from the building line or to a point farther than five (5) feet from the building if it is specifically indicated as such in the contract documents. All final connections (water, storm, sanitary, gas) are by this contractor, regardless of timing and installation by the 31A Contractor or utility company(s). The 31A Contractor is to bring building domestic water service and fire water service to the building up to and including the first capped flange within the building at which point this contractor will set the backflow preventer for fire service at which point the 21A contractor takes responsibility for the sprinkler system, and for domestic water this contractor runs all remaining interior piping. The 23B contractor is to bring both supply and return for the geothermal system up to the first flange(s) within the building, at which point this contractor is responsible for all remaining interior piping. Note, the 23B Contractor is not running piping all the way to the mechanical room, just stubbed up and capped at the first flange, from which this contractor is responsible to take piping to the mechanical room, and all other interior geothermal mechanical piping.
7. Contractor shall make the final connections to the geothermal well piping from a capped flange three feet (3') above the main building mechanical room slab on grade. Capped flange and piping to and below the slab on grade is by the geothermal well subcontractor.
8. This contractor to furnish and install the fire sprinkler service backflow preventer, from which all further fire sprinkler piping will be provided by the 21A Contractor.
9. Contractor shall coordinate with Concrete Contractor regarding underground work, mechanical openings, and embedded items. Contractor shall coordinate with Masonry Contractor, Steel Contractor, and Drywall Contractor regarding duct openings, pipe sleeves, and embedded piping. Contractor shall provide field layout for ductwork penetrations, sleeves, and pipe penetrations. Contractor shall provide all sleeves required for its penetrations. Contractor shall provide information showing all pipe sleeve sizes, duct penetration sizes and dimensional layout of these penetrations for all steel penetrations for incorporation into the Steel Contractors steel fabrication shop drawings. Contractor shall provide all information for concrete, masonry, and steel within thirty (30) days of receiving a Letter of Intent, Notice to Award or the Contract, whichever is issued first.
10. Contractor shall coordinate with Structural Steel Contractor regarding openings, supports, framing, and bracing for all mechanical equipment. Contractor shall, within thirty (30) days of receiving a Letter of Intent, Notice to Award or the Contract, whichever is issued first, Contractor shall issue information showing actual dimensioned opening locations, opening sizes, support locations, support sizes, weights, loads, and any other items required for the necessary detailing and fabrication of the structural steel with relation to all mechanical work.
11. In the event an opening is required in a masonry wall and is not properly coordinated between this and the 04A contractor it is this contractor's sole responsibility to implement the required fix dictated by the Structural Engineer of Record (SER). All costs to either sawcut, or tooth CMU to allow for the opening is the responsibility of this contractor. In the event the 04A contractor has missed the indicated opening, or has miss-sized the opening, which has been laid out by this contractor, the costs required for the fix is the responsibility of the 04A contractor.
12. Contractor shall furnish and install all sound caulking, firesafing and fire caulking at all mechanical penetrations through walls, ceilings, and / or floors as required by specifications.
13. Contractor shall be required to furnish layout for all concrete pads related to the work in this package, including concrete housekeeping pads, equipment bases, roof top units, block-outs and all other mechanical equipment pads installed by others. In the event pads are required at equipment under this package but are not shown on the drawings, this Contractor shall furnish and install these pads in their entirety.
14. Contractor shall furnish and install all louvers and/or vents, inclusive of architectural louvers, regardless of document provisions. This is to include all architectural and mechanical louvers with the exception of louvers located within Hollow Metal (HM) or wood doors. HM or wood door louver to be furnished by the HM supplier. In the event ductwork furnished under this contract is to align with a HM or wood door louver, coordination of exact size and location of the louver is the responsibility of this contractor.

15. Contractor to furnish and install all bird and or insect screening as indicated on contract documents and specifications.
16. Contractor shall promptly furnish and install temporary closures at all louver openings and maintain closures until permanent louvers are installed.
17. Contractor shall furnish and install all caulk around all plumbing fixtures, exterior louvers, and exterior vents.
18. Contractor shall protect and maintain protection of all drains/cleanouts with tape or appropriate material to prevent debris generated by other Contractors from clogging drainage piping. Contractor shall be responsible for the removal and cleaning of this protective material.
19. Contractor shall immediately furnish, install, and maintain properly secured and labeled protective covers over all deck and roof penetrations left by its work.
20. The permanent HVAC equipment will be utilized for temporary climate control as directed by the CPM Schedule. The permanent equipment shall remain in operation following start-ups, as directed by the Construction Manager. Contractor shall perform regular maintenance on all equipment as necessary to maintain equipment in "like new" condition. This contractor includes labor and material for all temporary filters required during construction. Additionally, the Contractor shall provide a complete filter change on all units, within ten (10) days of Substantial Completion. The required warranty for all equipment commences on the date of substantial completion. Any costs for extended warranty due to early start up are to be included in this Contractor's base cost. Supplemental temporary filter media shall be applied and maintained for all return intakes, in addition to all required unit filters, for temporary HVAC unit operation. Removal of all temporary filter media will be the responsibility of the Contractor prior to balancing and testing. This is a LEED project, Contractor to bear all costs associated with all required filter changes throughout construction and at project substantial completion and prior to turn over.
21. All equipment being furnished under this scope of work shall be sufficiently covered and sealed during transport to protect against inclement weather and adverse effects weather has on such equipment, per LEED requirements. Failure to do so may result in the equipment having to be replaced in the future at no additional cost to the Owner or Construction Manager.
22. Failure to properly rig, handle, transfer, set, install all equipment causing damage to said equipment will result in said equipment being replaced at no additional cost to Owner or Construction Manager, and will not be grounds for delay to the project. All set equipment is to be protected and remain in factory like condition until startup and acceptance of equipment by owner. Any and all costs associated with acceleration of following trades will be the full cost of this contractor.
23. Contractor shall solicit the services of the manufacturer to clean all coils within ten (10) days prior to Substantial Completion.
24. Contractor shall be responsible for all excavation, grading, backfill, approved compaction, and any other item associated with its interior and exterior work provided under this package. Contractor shall dispose of its excavation spoils to a central location as directed by the Construction Manager. Contractor shall be responsible for dewatering its excavations as necessary to maintain progress for its work. Contractor is responsible for the excavation and backfill for all its mechanical work and is responsible for restoring all excavations to their original grade and compaction. If in the event this Contractor must perform an excavation operation for reason caused by itself after the stone base of the concrete slab has been installed, it will be the responsibility of this Contractor to repair the stone base for the concrete slab, replace any stone base that may have been contaminated by this Contractor's excavation operations, and bring this area back to its original grade prior to this Contractor's excavation.
25. This Contractor shall provide all duct and pipe insulation inclusive of labeling, color coding etc required for its work.
26. Contractor shall cap off all ductwork at the end of each workday with clean unused polypropylene sheets. Ductwork not capped off shall be required to be mopped clean and then HEPA vacuumed under the inspection of the Construction Manager. If this requirement is not adhered to, the Construction Manager will perform the work and back charge the

Contractor. When performing the cleaning work, use only approved HEPA type vacuum units. No “blowing out” (pressure cleaning) will be allowed. All ductwork shall be sealed when stored on and off site prior to installation.

27. All ductwork installed prior to building close-in is required to be fully wrapped with unused polypropylene sheets to protect against water infiltration. No duct insulation or sound lined duct shall be installed prior to building close-in.
28. Contractor shall furnish and install all duct lining, external duct, equipment, and pipe insulation as per specifications. Contractor shall install all duct mounted smoke detectors which shall be supplied by the Electrical Contractor.
29. Contractor shall provide vibration and sound control as specified. Steel supports and/ or racks for this Contractor's equipment and piping, such as hangers shall be furnished and installed by this Contractor. **All thread shall not extend lower than manufacturers required minimum below the support angle or rack regardless of the system it is supporting.**
30. Contractor shall coordinate box outs directly with the Masonry and or Concrete Contractor where possible. If failure to coordinate occurs, this Contractor is responsible for neatly core drilling or cutting masonry walls where its work will pass through masonry walls. “Beating” of holes will not be permitted.
31. Contractor shall furnish and install all piping, ductwork, and rough-in for all equipment and appliances. Contractor is responsible for making the final mechanical (plumbing, gas, and HVAC) connections, hook-ups, and tie-ins to all equipment and appliances. Contractor shall provide all mechanical connections, hook-ups, and tie-ins for all Owner furnished equipment, casework, appliances, and the like. Contractor shall provide all mechanical connections, hook-ups, and tie-ins for all equipment furnished by any other trade(s).
32. Contractor shall furnish and install temporary filtration media at the supply and return side of all mechanical equipment in accordance with the Construction Manager’s Indoor Air Quality Management Plan and LEED Requirements. Contractor shall provide for filter changes, during construction, at the end of each phase of construction, prior to the flush out period, and as directed by the Construction Manager and or LEED Requirements. Contractor shall furnish, install, and maintain all temporary screens at strainers. Contractor shall, at the completion of its work and just prior to balancing and acceptance, remove all temporary screens and filters and install new, final filters and screens. Contractor to pay close attention to all MERV filter requirements during and post construction.
33. Contractor shall furnish and install all waterproofing and counter-flashing of its work when it penetrates the completed roof system, walls, and any other weather barrier surfaces. Any work performed by other contractor’s in having to go behind and make this contractor’s penetrations weather-tight will be back-charged to this contractor.
34. Contractor shall provide chlorination and certification of domestic water system.
35. Contractor shall furnish and install all Control Wiring requirements outlined in the drawings and specifications.
36. Contractor shall furnish and install prime coat painting for all unprotected support and hanger steel. “Black iron” will not be permitted.
37. Contractor shall furnish the Concrete Contractor with equipment (housekeeping) base layouts, anchor bolts, washers, sleeves, plates and templates for the mechanical equipment. It is this Contractor's responsibility to coordinate and check this work directly with the Concrete Contractor prior to concrete placement.
38. Contractor shall furnish and install any and all backflow preventers that are shown and/or that may be required by local codes. This contractor to include backflow preventer for hydrant meters and sprinkler systems, and all kitchen equipment as required.
39. Contractor shall coordinate the connection of the completed ATC system with any off-site component with the Construction Manager and Owner.

40. Contractor shall furnish and install grease interceptor and connections where indicated, including all cutting, excavation, support, backfilling, and patching as required. Contractor includes sheeting and shoring of excavation if required due to proximity of other structures or excavations.
41. Contractor shall furnish and install equipment, duct, and piping with sufficient space to allow for proper operation, maintenance, and removal as needed. Relocation of equipment, piping or ductwork to provide access will be at the expense of the Contractor if its work is found not to be in compliance.
42. Contractor understands and has taken into account that the drawings are shown diagrammatically and are not intended to show every fitting, valve and offset. Contractor is to provide equipment, fittings, valves, offsets, piping, and devices necessary to make a complete and operating system.
43. Contractor shall not install pipes over, around, in front of, in back of, or above, electrical controls, panels, switches, terminals, boxes, or similar electrical equipment. Drip pans will not be permitted around electrical equipment. Contractor also shall not install any piping over spaces for alternating tread stairs up to penthouses. These areas shall remain clear.
44. Contractor shall provide sanitary and water connection to the Construction Manager's office Trailer. In the event that this cannot be done, the Contractor shall be responsible for providing temporary means of and continued maintenance of sanitary and water service to the trailers. Contractor includes, permits, bonds, labor, and material, including heat tape for connection by electrical contractor. At the completion of the project per the direction of the Construction Manager, Contractor shall disconnect, remove, and dispose of the sanitary and water connections. Monthly usage charges will be paid by the Construction Manager.
45. Contractor shall furnish and install a complete plumbing system to include, but is not limited to, all taps, valves, pipes, fittings, water treatment systems, controllers, vertical by-pass feeders, turbine water meters, chillers, boilers, temporary measures, booster pumps, chemical pumps, line strainers, filter housings, filters, chemicals, tanks, open system cleaners, closed system cleaners, closed re-circulating systems, boilers, vents, couplings, nipples, insulation, plumbing fixtures, shock absorbers, wall hydrants, floor drains, roof drains, water heaters, floor sinks, open site drains, overflow drains, downspout nozzles at overflow drains, cleanouts, backflow preventers, hangers, rods, equipment supports, adhesives, manual air vents, automatic air vents, balance cocks, thermometers, drain cocks, pressure gauges, expansion tanks, automatic air separator eliminators, motors, tempered water valves, sump pumps, trap primers, electrical trap primers, washer connection box, trough/trench drains, grating at trough / trench drains, french drains, rooftop piping supports, gas piping and regulating system, water service for sprinkler system, backflow preventers for sprinkler system and kitchen equipment, drain tile, testing & balancing, and the like as required by the contract documents and jurisdictions having authority.
46. Contractor shall furnish and install a complete HVAC system to include, but not is limited to, all hydronic heat pumps, temperature controls, fans, pumps, plate heat exchangers, electric heaters, expansion tanks, air separators, energy & heat recovery units, insulation, control systems, diffusers, grilles, registers, distribution vaults, louvers, intake hoods, smoke vents, coordination with and installation and connection of hoods furnished by others, roof caps, brick vents, roof curbs, equipment, equipment supports, hangers, rods, adhesives, filters, motors, fans, heat pumps, roof top units, refrigerant piping, fire dampers, smoke dampers, automation systems, exhaust fans, manual volume dampers, condensate drain pipes, cabinet heaters, electric baseboard heaters, roof weather caps, coordination with and connection of kiln hoods furnished by others, air conditioning units, freeze protection pumps, coordination with testing & balancing contractor, participation and coordination in commissioning, and the like as required by the contract documents and jurisdictions having authority.
47. Testing and Balancing (TABS) to be performed by this Contractor.
48. Contractor shall furnish and install a complete Radon sub-slab ventilation system as required by the contract documents and jurisdictions having authority.
49. Contractor shall furnish and install all fire dampers as required. If a fire damper is not shown on the drawings, but is required based on fire rating and/or UL design, then it will be the responsibility of the Contractor to supply and install such fire dampers at no additional cost to the Construction Manager and/or Owner.

50. Contractor shall provide services of equipment manufacturer's representatives, where required by specifications, during installation, field inspection, testing, and owner demonstration and training.
51. Low voltage wiring for the work. No low voltage wiring for this package will be performed by either the Owner or 26A Contractor with respect to this scope of work and is the responsibility of this contractor to perform.
52. Contractor to provide all labor and prestartup test reports necessary for coordination with the Commissioning Agent and TABS Contractor at no extra cost to Owner or Construction Manager.
53. Furnish and install all Variable Frequency Drives.
54. All motor starters, AFD's, VFD's, etc furnished and installed by this contract are to include phase monitoring per the specifications, by this contractor.
55. Enthalpy wheels/desiccant wheels, where provided with Dedicated Outdoor Air units or "other" HVAC equipment, should be protected during construction and removed while temporary operation of units proceeds during construction. These wheels should be stored, protected and subsequently reinstalled in accordance with manufacturer's guidelines so as to not affect warranty coverage.

56. Contractor shall provide all underslab drainage as indicated on plumbing drawings ^{ADD#3}

SPECIAL CONSIDERATIONS:

1. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. Contractor is expected to provide a crew of the same size that is provided during Monday through Friday. No exceptions.**
2. This bid package has an MBE goal of 20 percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, are required to attempt to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs, unless specifically called for in this scope, are a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 23A

WORK SCOPE CATEGORY 23B – Geothermal Wells

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all [Geothermal Wells](#) work in accordance with the specifications, drawings, and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

<u>SECTION</u>	<u>NAME</u>
02 30 00	SUBSURFACE DRILLING AND SAMPLING INFORMATION
08 31 13	ACCESS DOORS AND PANELS (as it relates to this scope)
22 05 00	COMMON WORK RESULTS PLUMBING (as it relates to this scope)
23 05 00	COMMON WORK RESULTS HVAC (as it relates to this scope)
23 05 19	METERS AND GAUGES FOR HVAC PIPING (as it relates to this scope)
<u>23 08 00</u>	<u>HVAC SYSTEMS COMMISSIONING (as it relates to this scope and for coordination purposes)</u> ^{ADD#3}
23 09 00	NEW INSTRUMENTATION AND CONTROL FOR HVAC (as it relates to this scope)
23 21 13	HYDRONIC PIPING (as it relates to this scope)
23 21 13.33	GROUND-LOOP HEAT PUMP PIPING
23 25 00	HVAC WATER TREATMENT (as it relates to this scope)
23 72 00	ENERGY RECOVERY UNITS (as it relates to this scope)
23 81 46	WATER-SOURCE UNITARY HEAT PUMPS (as it relates to this scope)

DIVISION 23 – MECHANICAL (in its entirety for coordination purposes and as sections relate to this scope)

DIVISION 26, 27 & 28 - ELECTRICAL (in its entirety for coordination purposes and as sections relate to this scope)

31 20 00 **EXCAVATING FILLING AND GRADING (as it relates to this scope)** ^{ADD#3}

Geotechnical Report issued by [ECS Mid Atlantic, LLC](#) dated [February 3, 2023](#), with addendum dated [March 21, 2023](#), for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Geothermal Well Specific Scope:

1. Contractor shall coordinate with Concrete Contractor regarding underground work, mechanical openings, and embedded items. Contractor shall provide field layout for penetrations, and sleeves required in foundations or slabs.
2. Contractor shall review and comply fully with the Building Information Modeling (BIM) requirements detailed in the general scope.
3. Contractor will be responsible for all Sediment Erosion Control (SEC) measures, drilling, excavation, grading, backfill and any other item associated with exterior work provided under this package. Contractor will dewater excavations as necessary to maintain progress for work in this package. Upon completion of work contractor will restore all limits of disturbance of this package to original grade prior to start of work.

4. Contractor shall furnish and install sleeves required in foundations. Contractor shall layout and core drill sleeves in foundation wall that will be grouted solid at said location. Contractor shall provide piping lay-out for the floor penetration in coordination with the 23A contractor. This contractor shall furnish and install the required floor sleeves and proper supports for the 03A contractor to place the concrete slab. Contractor shall provide proper protection ie. "wood box" for the pipes after the concrete slab has been completed. Furnish the concrete contractor with the sleeves required for all pipe penetrations. It is the Geothermal Contractor's responsibility to coordinate and check this work directly with the Concrete contractor.
5. Contractor includes all work associated with the geothermal field including, concrete monuments, metallic tracer tape, brass survey stakes, drilling of wells, distribution and return piping up to and including a capped flange three feet (3') above the pumphouse buildings slab on grade. From these capped flanges the Mechanical contractor will take all remaining piping within the building. The Geothermal Contractor has all, incidental piping, excavation, backfill, testing and appurtenances up to and including the capped flanges within the main building.
6. Contractor includes flushing of all piping furnished and installed under this scope of work. Contractor acknowledges stringent flushing requirements of specifications. Failure to properly follow the sequence prior to start-up of equipment will result in re-flushing of all piping, possibly replacement of interior building equipment. All associated costs if this contractor is at fault would then be the responsibility of this contractor.
7. Drawings are shown diagrammatically and are not intended to show every fitting, valve, offset etc. Contractor is to provide equipment, piping, and devices necessary to make a complete and operating system.
8. Contractor to include all fire safing and or fire caulking of all own penetrations regardless of timing with installation of walls, floors, and slabs installed by others.
9. Contractor includes furnishing of all access doors required for own work. Access doors to be installed by 06A Contractor at both Masonry and Drywall locations.
10. Grading, backfill, and repairs of the site areas affected by the work are to be the same condition they were found at commencement of the work.
11. The contractor shall review the testing/inspection procedures and be very familiar with the requirements. Note that the testing gauge needs to either have a digital display or 1 psi increments.
12. The contractor shall conduct as built survey and shall turnover GPS to Owner.

SPECIAL CONSIDERATIONS:

1. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. The contractor is expected to provide a crew of the same size that is provided during Monday through Friday. No exceptions.**
2. This bid package has an MBE goal of 5 percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, are required to attempt to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs, unless specifically called for in this scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 23B

WORK SCOPE CATEGORY 26A – Electrical

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all **Electrical** work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

SECTION	NAME
02 30 00	SUBSURFACE DRILLING AND SAMPLING INFORMATION (as it relates to this scope)
02 41 19	SELECTIVE DEMOLITION (as it relates to this scope)
03 10 00	CONCRETE FORMING AND ACCESSORIES (as it relates to this scope)
03 20 00	CONCRETE REINFORCING (as it relates to this scope)
03 30 00	CAST-IN-PLACE CONCRETE (as it relates to this scope)
05 12 00	STRUCTURAL STEEL FRAMING (as it relates to this scope)
05 21 00	STEEL JOIST FRAMING (as it relates to this scope)
05 31 00	STEEL DECKING (as it relates to this scope)
06 40 23	INTERIOR ARCHITECTURAL WOODWORK (for coordination purposes)
07 54 23	THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING (for coordination purposes)
07 62 00	SHEET METAL FLASHING AND TRIM (for coordination purposes)
07 71 00	ROOF SPECIALTIES (for coordination purposes)
07 81 00	APPLIED FIREPROOFING (for coordination purposes)
07 81 23	INTUMESCENT FIREPROOFING (for coordination purposes)
07 84 13	PENETRATION FIRESTOPPING (as it relates to this scope)
07 91 00	PREFORMED JOINT SEALS (as it relates to this scope)
07 92 00	JOINT SEALANTS (as it relates to this scope)
07 92 19	ACOUSTICAL JOINT SEALANTS (as it relates to this scope)
08 31 13	ACCESS DOORS AND PANELS (as it relates to this scope)
08 33 13	COILING COUNTER DOORS (for coordination purposes)
08 33 23	OVERHEAD COILING DOORS (for coordination purposes)
08 71 00	DOOR HARDWARE (as it relates to this scope)
10 00 05	MISCELLANEOUS SPECIALTIES (as it relates to this scope)
10 11 00	VISUAL DISPLAY UNITS (for coordination purposes)
10 22 39	FOLDING PANEL PARTITIONS (as it relates to this scope)
10 28 00.13	ELECTRIC HAND DRYERS (as it relates to this scope)
11 00 05	MISCELLANEOUS EQUIPMENT (as it relates to this scope)
11 30 13	APPLIANCES (as it relates to this scope)
11 40 00	FOODSERVICE EQUIPMENT (as it relates to this scope)
11 53 13	LABORATORY FUME HOODS (as it relates to this scope)
11 61 33	RIGGING SYSTEMS AND CONTROLS
11 61 43	STAGE CURTAINS
11 66 23	GYMNASIUM EQUIPMENT (as it relates to this scope)
11 66 43	BASKETBALL SCOREBOARD (as it relates to this scope)
11 66 47	BASKETBALL SHOT TIMER SCOREBOARD (as it relates to this scope)
11 66 53	GYMNASIUM DIVIDER (as it relates to this scope)
12 24 13	WINDOW SHADE SYSTEMS (for coordination purposes)
12 35 50	EDUCATIONAL CASEWORK (for coordination purposes)
12 35 51	MUSICAL INSTRUMENT STORAGE CABINETS (for coordination purposes)
12 35 53	WOOD LABORATORY CASEWORK (for coordination purposes)
12 36 00	COUNTERTOPS (for coordination purposes)
12 61 00	FIXED AUDIENCE SEATING (as it relates to this scope)
12 66 00	TELESCOPING STANDS (as it relates to this scope)
13 21 48	SOUND-CONDITIONED MUSIC PRACTICE ROOMS
13 34 13	GREENHOUSE AND GREENHOUSE RELATED EQUIPMENT (as it relates to this scope)
14 24 00	PASSENGER ELEVATORS (as it relates to this scope)
14 42 00	WHEELCHAIR LIFTS (as it relates to this scope)
21 05 00	COMMON WORK RESULTS FOR FIRE SUPPRESSION (as it relates to this scope)

21 31 13 ELECTRIC-DRIVE CENTRIFUGAL FIRE PUMPS (as it relates to this scope)
21 34 00 PRESSURE MAINTENANCE PUMPS (as it relates to this scope)
21 39 00 CONTROLLERS FOR FIRE-PUMPS (as it relates to this scope)

DIVISION 22 – PLUMBING (in its entirety for coordination purposes and as it relates to this scope)

DIVISION 23 HETING VENTILATING AND AIR CONDITIONING (in its entirety for coordination purposes and as it relates to this scope)

DIVISION 26 - ELECTRICAL

26 05 01 GENERAL ELECTRICAL REQUIREMENTS
26 05 13 MEDIUM-VOLTAGE CABLES
26 05 19 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
26 05 26 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
26 05 29 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
26 05 33 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
26 05 43 UNDERGROUND DUCTBANKS
26 05 44 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING
26 05 48.16 SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS
26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEMS
26 05 73 OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY
26 05 74 OVERCURRENT PROTECTIVE DEVICE ARC-FLASH STUDY
26 08 00 **ELECTRICAL SYSTEMS COMMISSIONING**^{ADD#3}
26 09 23 LIGHTING CONTROL DEVICES
26 09 26 LIGHTING CONTROL PANELS
26 12 19 PAD-MOUNTED, LIQUID-FILLED, MEDIUM-VOLTAGE TRANSFORMERS
26 13 23 MEDIUM-VOLTAGE METAL-ENCLOSED SWITCHGEAR
26 22 00 LOW-VOLTAGE TRANSFORMERS
26 24 13 SWITCHBOARDS
26 24 16 PANELBOARDS
26 27 26 WIRING DEVICES
26 28 13 FUSES
26 28 16 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
26 29 13 ENCLOSED CONTROLLERS
26 32 13.16 GASEOUS EMERGENCY ENGINE GENERATORS
26 36 00 TRANSFER SWITCHES
26 41 13 LIGHTNING PROTECTION FOR STRUCTURES
26 43 13 SURGE PROTECTION DEVICES
26 51 19 LED INTERIOR LIGHTING
26 55 61 THEATER LIGHTING SYSTEMS
26 56 13 LIGHTING POLES AND STANDARDS
26 56 19 LED EXTERIOR LIGHTING

DIVISION 27 - COMMUNICATIONS

27 05 00 TELECOM PATHWAYS AND SPACES
27 05 33.1 CONDUIT RACEWAYS AND BOXES FOR AUDIOVISUAL SYSTEMS
27 15 01 TELECOMMUNICATIONS CABLING AND EQUIPMENT
27 20 01 NETWORK EQUIPMENT
27 41 00 AUDIO VISUAL AND SOUND SYSTEMS
27 41 01 CLASSROOM AUDIO VISUAL AND SOUND SYSTEMS
27 41 13 PROJECTION SCREENS
27 41 16 AV PERFORMANCE SYSTEMS
27 50 00 INTERCOM AND CLOCKS

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

28 10 00 ACCESS CONTROL AND INTRUSION DETECTION

28 23 00	VIDEO SURVEILLANCE SYSTEM
28 31 11	DIGITAL ADDRESSABLE FIRE-ALARM SYSTEM
31 20 00	EXCAVATING FILLING AND GRADING (as it relates to this scope)
31 23 19	DEAWTERING (as it relates to this scope)
33 05 00	COMMON WORK RESULTS FOR UTILITIES (as it relates to this scope)
33 30 00	SANITARY SEWERAGE SYSTEM (as it relates to this scope)

Geotechnical Report issued by [ECS Mid Atlantic, LLC dated February 3, 2023, with addendum dated March 21, 2023](#) for informational purposes only.

* Provide the temporary fit outs indicated in the drawings as well as the removal of the temporary conditions and complete finishes as part of Phase 2. If the Base Bid 2 option is selected, the temporary fit out work will not be required.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as to not misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Electrical Specific Scope:

1. As the Construction Manager, HESS shall manage the use of construction coordination models throughout the construction process. All BIM-related information shall be exchanged through the BIM FTP site managed by HESS. Each contractor shall be responsible to coordinate his work with each trade. However, the Mechanical contractor will be responsible to lead the coordination process. HESS shall play the role of the Quality Control Manager during this process. Utilizing design models created by A/E and fabrication/coordination models prepared and submitted by the listed trade contractors, HESS will maintain an up-to-date Federated model throughout the construction phase. The Federated model will be used to fully and properly coordinate and sequence the work of the trades, to maximize efficiencies during construction. Conflicts in the layout and sequencing of the work will be discussed and resolved in a series of periodic construction coordination meetings.

All Steel, Mechanical, Plumbing, Electrical and Fire Protection contractors will be required to prepare 3D coordination models compatible with latest AutoCAD and Navisworks software. For clash detection to work properly, all models shall have a common reference point which shall be derived from the Architectural Design Model. All costs shall be included in the contractors bid. Contract architectural, MEP and structural drawings (3D) will be available electronically from the designated FTP site. During the construction phase these individual fabrication models shall be combined to create a Federated Construction Coordination model. BIM processes such as clash detection, submittals, trade sequencing, etc. will be done using the Construction Coordination model. The shop drawings submitted for records and approval will be generated from the Construction Coordination model or from individual models therein. The Construction Coordination model will be updated and maintained throughout construction to create an accurate as-built digital record of the construction of the project. The as-built BIM will be conveyed to the Owner on completion of construction, as a tool to assist owner in facility operation and maintenance.

The Mechanical contractor will take the lead and develop a drawing list for approval by the Construction Manager subdividing the building into separate areas. The drawing list will be for submission and will indicate a submission schedule coordinated with the construction activities. The drawings shall be developed in a sequential fashion so as to not delay installation of the work or the overall project schedule. The Construction Manager shall prepare a schedule identifying the activity and duration of each submission. The Mechanical contractor will call meetings, weekly, or as required, which all required contractors must attend to avoid delay. Such meeting can be held via web conference if agreed upon mutually by

all parties. Failure to attend will require the contractor to field run the work not coordinated. No extra compensation will be paid to any contractor for relocating any equipment, duct, pipe, conduit, or other material that has been installed without proper coordination. If the installation of any uncoordinated work or improper installation or coordinated work necessitates additional work by other contractors, the cost of such additional work shall be assessed to the contractor responsible as determined by the Construction Manager. Where conflicts are found in the Model, regardless of the phase of the Project or LOD, the discovering party shall promptly notify the Model Element Author(s). Upon such notification, the Model Element Author shall act promptly to mitigate the conflict. At the conclusion of each coordination phase, the Mechanical contractor will notify the Construction Manager whereupon an onsite coordination meeting will be scheduled for the purpose of signing off on each respective area. After the review and approval of coordination in 3D, the Mechanical contractor shall provide one color composite set of drawings and forward them to the Construction Manager. In the preparation of all the final composite drawings, large scale details as well as cross and longitudinal sections shall be made as required to fully delineate all conditions. Particular attention shall be given to the locations, size and clearance dimensions of equipment items, shafts, and similar features. The final composite drawings shall include the locations of all controls, tie-ins, connections for other subcontractor's work, and pipe and duct insulation as required. Each trade contractor indicating their acceptance and approval of the indicated routings and layouts and their relationship with the adjoining or contiguous work of all contractors shall then sign off these final composite drawings. Therefore, no unauthorized deviations will be permitted. If deviations are made without the knowledge and agreement of the Construction Manager and other affected contractors, the work in question will be subject to removal and correction at no additional cost to the Owner.

After final composite drawings have been accepted and approved, the Mechanical contractor shall print one (1) color copy to be signed by all contractors. The Mechanical contractor shall provide the composite drawings digitally to all contractors through the HESS FTP site and will also submit two (2) set of prints for submittal purposes to the Construction Manager. The original signed off drawing shall be sent to the Construction Manager for permanent possession. No contractor will be authorized to release any material for fabrication or installation until the composite drawing(s) has been prepared and the signature process is executed and approved by the Construction Manager.

After final composite drawings have been accepted and approved, the Mechanical contractor shall print one (1) color copy to be signed by all contractors. The Mechanical contractor shall provide the composite drawings digitally to all contractors through the HESS FTP site and will also submit two (2) set of prints for submittal purposes to the Construction Manager. The original signed off drawing shall be sent to the Construction Manager for permanent possession. No contractor will be authorized to release any material for fabrication or installation until the composite drawing(s) has been prepared and the signature process is executed and approved by the Construction Manager.

2. **Construction Managers Trailer:** Contractor includes permits, bonds, utility company connection fees, labor and material and all miscellaneous costs to supply and install a 120/208V 200AMP electrical and cable service to the Construction Managers Office Trailer. This service will be in place for approximately 30 months. In the event permanent services are not initially available, Contractor shall furnish, install, fuel, and maintain temporary generators until service from the respective utility company can be established. Once established, Contractor is responsible for monthly service bills until project completion. In the event they cannot be established, Contractor is responsible for all costs to furnish, install, fuel, and maintain temporary generators until project completion. Contractor includes installation of and final connection of heat tape for temporary office furnished by 21A contractor. Contractor includes final disconnect and disposal of service at project completion.
3. **Temporary Power to Site:** Contractor includes permits, bonds, utility company connection fees, labor and material and all miscellaneous costs to supply and install a minimum of 277/480V 3 Phase 400 AMP service with distribution points at 120/208 V located at such points that no electrical cords will be over 100 lf in length and as approved by the Construction Manager. This service will be in place for approximately 30 months for the new facility construction. In the event permanent services are not initially available, Contractor shall furnish, install, fuel, and maintain temporary generators until service from the respective utility company can be established. Once established, Construction Manager is responsible for monthly service bills until project completion. In the event they cannot be established, Contractor is responsible for all costs to furnish, install, fuel, and maintain temporary generators until project completion. Contractor includes final disconnect and disposal of service at project completion.
4. Contractor shall furnish, install, and maintain adequate temporary lighting, as specified by MOSH and OSHA codes, and adequate electrical service for all trades regardless of status of permanent power from utility company. In the event permanent services are not available, Contractor shall furnish, install, fuel, and maintain temporary generators to provide adequate temporary lighting.

5. Contractor shall furnish and install dedicated temporary requirements for connection of all trades equipment such as masonry contractor's saw, tile contractor's saw, spray applied fire proofers equipment, wood flooring contractor's sanders and elevator equipment. Contractor shall furnish, install, fuel and maintain temporary generators until service from the utility company can be established.
6. Contractor shall furnish and install all electrical work indicated in the Contract Documents, including, but not limited to, fire alarm systems complete, electrical systems complete, public address systems complete, sound systems, music systems complete, and any other Division 26 systems. These systems shall include, but are not limited to, all primary service, secondary service, raceways, outlet boxes, pull boxes, junction boxes, wire ways, wiring, cables, wiring devices, receptacles, switches, hangers, supports, identification inclusive of painting of conduits per the specifications, contactors, time clocks, wall mounted clock with cage in gymnasium, photocells/photo-controls, connections to equipment, switches, panel boards, transformers, switchboards, service entrance surge suppression, grounding, lightning protection as indicated, emergency stand-by generators, dimming systems, controls, conduit, spare conduit with pull string where called out, automatic and/or push button door openers, power/data requirements for exterior signage, kilns, battery chargers, emergency cut-offs, gym control panels, fire hydrant supervision, light guards/cages, and the like for the complete installation of all systems unless noted otherwise elsewhere. **(Note cabling and conduit restrictions per specifications)**
7. If at any time during the course of construction, permanent utilities which are being used for construction need to be terminated, regardless of length of time, this Contractor shall (A) furnish, install, and maintain temporary generators until service from the utility company can be reestablished, to allow for other trades to continue work uninterrupted, or (B) schedule shut-offs, switch-over(s) off hours. At which time they are to be coordinated with the Construction Manager a minimum of seven (7) days in advance.
8. Contractor shall coordinate with the Concrete Contractor and the Masonry Contractor to provide all required embedded items, including, but not limited to, sleeves, conduit, device boxes, panel boxes, and the like included in this scope. The Contractor shall be responsible for the proper location and installation of all embedded items. Note surface applied/exposed conduits, boxes, etc will not be allowed unless specifically approved via RFI prior to installation. This includes control wiring, conduit and boxes.
9. In the event an opening is required in a masonry wall and is not properly coordinated between this and 04A contractor, it is this contractor's sole responsibility to implement the required fix issued by the SER. All costs to either sawcut, or tooth cmu to allow for the opening is the responsibility of this contractor. In the event the 04A contractor has missed the indicated opening, or has miss-sized the opening, the costs required for the fix is the responsibility of the 04A contractor.
10. Contractor shall furnish and install complete power connections and final connections for all equipment installed under this scope and other trades scopes including, but not limited to, food service equipment, miscellaneous equipment and appliances, casework, specialties, toilet accessories, motorized partitions, motorized projectors, electric hardware, stage equipment, athletic equipment/devices, electrical equipment, mechanical equipment, shop equipment, pumps, motors, panels, appliances, and the like as required by the Contract Documents. The Contractor shall check and verify that the power it is providing (amperage, voltage, etc.) matches the power requirements of the equipment it is connecting to. The Contractor shall report any deviations to the Construction Manager prior to making the connection.
11. Contractor shall coordinate with Mechanical Contractor and any other trades regarding motor starters including final connections for all mechanical equipment. Electrical Contractor shall furnish and install for all trades all motor starters, control panels, fuses, contactors, safety switches, disconnect switches, and controls when stated in the specifications or drawings and is not specifically assigned to others by the Contract Documents. Where it is unclear as to the intent of the drawings or specifications as to who furnishes the required equipment of other trades, it shall be the responsibility of this Contractor to provide the required equipment.
12. Contractor shall furnish and install a complete fire alarm system as indicated by the Contract Documents. Contractor shall furnish and install all required electrical connections to all alarm devices, including but not limited to, water gongs, flow switches, connections to electric door hardware, and tamper switches installed by others. This contractor has all F/A connections and programming of all devices. Contractor also includes all inherent off hour work required for this scope item.

13. Contractor includes coordination and installation all power requirements and/or fire alarm connections for all prefabricated display cases, display surfaces, bulletin boards, protective covers, operable panel partitions, miscellaneous equipment, stage curtains, motorized projection screens, projection screens, solid waste handling equipment, food service equipment, ansul systems, residential equipment, gymnasium equipment, laminated casework, wood casework, for complete and fully functional systems.
14. Contractor shall furnish and install all exterior work, conduit ducts, and/or duct banks, including but not limited to, electrical, phone, CATV, fiber optic, spares, transformer pads, manholes, concrete, and the like as required. Contractor shall also furnish and install all concrete and accessories for the site lighting package. Contractor shall be required to furnish and install all concrete related to the work of this scope, including, but not limited to encasement of underground conduits, anchor bolts, reinforcing steel, and light pole bases. Contractor shall note that the interior housekeeping and equipment pads will be provided by the Concrete Contractor. The coordination and layout of the interior housekeeping and equipment pads for this Contractor will be provided by this Contractor. In the event a concrete pad is required but not shown on the drawing, this Contractor will be responsible to install this concrete work complete. Contractor shall furnish and install all exterior equipment foundations and pads. Contractor shall coordinate this work with the Construction Manager, Owner and all applicable Utility companies. Contractor shall perform all excavating and backfilling required for all work outlined in this section.
15. Contractor will coordinate with all equipment and appliance Contractors, to ensure that proper rough-ins and receptacles are provided under this Contract.
16. The permanent HVAC equipment will be utilized for temporary climate control as directed by the CPM Schedule. The permanent equipment shall remain in operation following start-ups, as directed by the Construction Manager. Contractor shall perform regular maintenance on all equipment as necessary to maintain equipment in "like new" condition. Contractor shall complete all work necessary to properly electrify (on a temporary and/or permanent basis) the equipment for its use as described above. The use of permanent electrical equipment to provide power shall not alter required warranties. The required warranty for all equipment commences on the date of substantial completion. Any costs for extended warranty due to early start up are to be included in this Contractor's base cost.
17. Contractor includes all costs associated with start-ups and reports.
18. Contractor shall furnish and install all sound caulking, firesaffing and fire caulking at all penetrations this Contractor makes through walls, ceilings, and/or slabs, inclusive of exterior perimeter of pathways for the technical wiring Contractor.
19. Contractor shall coordinate placement of conduit under slab on grade with the Mechanical Contractor, Concrete Contractor, and Construction Manager.
20. Contractor shall be responsible for all excavation, grading, backfill, approved compaction, and any other item associated with its interior and exterior work provided under this package. Contractor shall dispose of its excavation spoils to a central location as directed by the Construction Manager. Contractor shall be responsible for dewatering its excavations as necessary to maintain progress for its work. Contractor is responsible for the excavation and backfill for all its mechanical work and is responsible for restoring all excavations to their original grade and compaction. If in the event this Contractor must perform an excavation operation for reason caused by itself after the stone base of the concrete slab has been installed, it will be the responsibility of this Contractor to repair the stone base for the concrete slab, replace any stone base that may have been contaminated by this Contractor's excavation operations, and bring this area back to its original grade prior to this Contractor's excavation.
21. Contractor is responsible to verify size, quantity, and final routing of underground conduits for cable and telephone prior to installation, with respective utility company at no additional cost to the owner or construction manager.
22. The Sprinkler System Contractor and the Electrical Contractor shall submit concurrently to the Fire Marshall and any other jurisdiction having authority, a coordinated sprinkler system/fire alarm system submittal in accordance with the Fire Marshall's and any other jurisdictions having authority requirements. The Contractors shall provide the required coordinated submittal in its entirety within one week of completion of the BIM process.

23. Contractor shall review and comply fully with the Building Information Modeling (BIM) requirements.
24. Contractor shall coordinate with Concrete Contractor regarding underground work, mechanical openings, and embedded items. Contractor shall coordinate with 04A Masonry Contractor, 05A Steel Contractor, and 06A General Trades/Drywall Contractor regarding duct-banks, raceways, and conduit sleeves. Contractor shall provide field layout duct-banks, raceways, and conduit sleeves. Contractor shall provide all sleeves required for its penetrations. Contractor shall provide coordination drawings showing all duct-banks, raceways, and conduit sleeves and dimensional layout of these penetrations for all steel penetrations for incorporation into the Steel Contractors steel fabrication shop drawings. Contractor shall provide all coordination drawings for concrete, masonry, and steel within Thirty (30) days of receiving a Letter of Intent, Notice to Award or the Contract, whichever is issued first.
25. Contractor shall coordinate box outs directly with the Masonry Contractor where possible. When not possible contractor is responsible for neatly core drilling or cutting masonry walls where its work will pass through masonry walls. "Beating" of holes will not be permitted.
26. Contractor to coordinate with concrete contractor for floor penetrations. When not possible contractor is responsible for neatly core drilling through concrete. Where floor removal is required, Contractor will replace floor slabs removed by this Contractor in the manner specified, if work must be done out of concrete pour sequence.
27. Contractor shall furnish and install all required escutcheons, pedestals, and the like for complete finish trim for this Contractor's work in all ceilings, walls, floors, millwork, casework, and the like.
28. Contractor shall furnish and install all specified backing and supports for fixtures and equipment, including telephone and security equipment and backboards, and all cabinets necessary for this Contractor's work. This includes plywood.
29. Contractor shall furnish and install the Emergency Generator, including electrical connections, accessories, connections to, pumps, and transfer switches, exhaust piping and tanks. Fuel connections are by the 23A Contractor.
30. Contractor shall design, furnish, and install a complete Fire Alarm System with shop drawings and wiring interface of various pieces of equipment to be controlled as detailed in the specifications, drawings, and equipment data. Fire Alarm System and Sprinkler System zones must match and/or coincide. This Contractor shall design, furnish, and install the system to meet with every one of the following standards that are the minimum: State Fire Marshall, County Fire Department, Applicable Safety Codes, BOCA Codes, ANSI Elevator Codes, National Fire Protection Association Standards, and National Electrical Code, Article 760. Contractor shall coordinate with the Mechanical Contractor before any work on this system can commence. Contractor to furnish to Mechanical Contractor duct-smoke detectors for installation, final connections and tie in with fire alarm system is by this contractor.
31. Contractor shall provide the Construction Manager with a copy of the latest edition of the NECA labor-pricing manual at no additional cost.
32. This Contractor shall provide all labeling and identification required for its work inclusive of painting and stenciling of conduits as required per the specifications.
33. Contractor will survey the entire building prior to substantial completion in order to allow Contractor to replace **any failed lamps** within two weeks following substantial completion and/or at the direction of the Construction Manager at no additional cost to Owner or Construction Manager.
34. Contractor to provide all temporary lighting as required in order to use the space for its intended use.
35. Contractor shall furnish and install all miscellaneous steel and support hanger steel required for ceiling and/or wall mounted equipment it is installing, including light fixtures, specialty fixtures, panels, transformers, and the like. Contractor shall furnish and install prime coat painting for all unprotected support and hanger steel. All support hangers to be installed prior to spray applied fireproofing. If contractor fails to install these items prior to fireproofing be installed, patching costs will be the responsibility of this contractor.

36. Contractor shall review all casework, mechanical equipment, shop equipment, signage, theatre equipment, stage equipment, appliance, equipment submittals, shop drawings, and product data to assure that all electrical components are compatible and operable with the electrical system (including the fire alarm system). Contractor shall provide to the Construction Manager written verification of its review and bring forward in writing any discrepancies found within this data within three (3) weeks after receiving this data. If discrepancies are not reported within that time frame, the Contractor shall be responsible for any costs associated with those discrepancies. Non-conformance to this requirement shall not be cause for schedule delay.
37. Contractor shall furnish and install all outlets, wire mold, and other electrical devices/components required for casework and millwork. Cutouts for this work will be provided by others. This Contractor shall provide templates for locating and completing these cutouts to the Millwork Contractor.
38. If documents call for "empty conduit" or any version thereof, this contractor has included "empty conduit", clips, anchoring, hangers, etc, and associated pull string(s) and blank cover plate.
39. Contractor shall furnish and install all Control Systems electrical requirements outlined on in the drawings and specifications.
40. Contractor shall furnish and install equipment and devices with sufficient space to allow for proper operation, maintenance, and removal as needed. Relocation of equipment and/or devices to provide access will be at the expense of the Contractor if its work is found not to be in compliance.
41. Contractor has included all plating of otherwise empty work boxes.
42. Contractor shall include relocation of existing electrical utilities, light poles etc... as indicated on Contract Documents.
43. Contractor shall furnish and install all conduit and pull strings for site signage.
44. This Contractor will install only, furnished by others; all electric hand dryers, associated anchors and fasteners.
45. Permanent Service: Contractor to include excavation, installation of conduits and associated sweeps concrete, photo documentation, backfill, compaction, end staking, etc... for primary electric service installation. Power Company will set transformer. This contractor includes transformer pad, transformer switch pad(s) and primary and secondary ductbank to building inclusive of any permits, bonds, and labor. Contractor includes furnish and installation of primary and secondary wire which will be terminated by power company. Power company connection charges and any pole relocations for this site will be paid direct by CCPS; utility usage charges will be paid by Construction manager.
46. Contractor includes in its entirety all interior and exterior, fire alarm system, public address and music equipment, school intercom and programming equipment, security systems, sound systems, clock systems, etc.
47. Contractor shall participate in door hardware coordination meeting once hollow metal frames have been approved.
48. Contractor includes wiring and step-down transformers and or power supplies for all electrified door hardware. Actual hardware at door is installed by the 06A contractor. This contractor to coordinate routing of conduits within door frames prior to frame installation.
49. Contractor has final connection of equipment being provided by others located within the main building.
50. Contactor includes furnish of all access doors required for own work. Access doors to be installed by 06A Contractor at both Masonry and Drywall locations.
51. All motor starters, AFD's, VFD's, etc... furnished and installed by this contract are to include phase monitoring per the specifications, by this contractor.

52. Contractor shall include an allowance of \$200,000.00 in their bid to cover the cost of the Distributed Antenna System.
53. Contractor shall furnish and install the wall sconce and light poles 1,2 and 3 as shown on sheet L502 inclusive of any footings required by the manufacturer in locations shown on the contract documents.

Low Voltage specific scope:

1. Contractor shall furnish and install equipment and devices, assemble, and terminate FACP components and perform programming, startup, and final testing of the fire detection and alarm system.
2. Contractor shall furnish and install system cabling, equipment, device and head end terminations, programming, system test, and check out for Security Intrusion System, Door Access Video Entry System, CCTV Surveillance System, Wireless Master Clock and Program System, Sound and Intercommunications Systems, Classroom Amplification Systems, Auxiliary Sound Reinforcing Systems, Telecommunications System, Cable Television/Broadband Distribution System and Multi-Media Presentation Control System.
3. Contractor shall provide all required warranties and certifications for systems as specified.
4. Contractor shall provide labor to cut, identify, and make safe existing low-voltage cables and devices for demolition.
5. Contractor shall de-program the existing fire-alarm devices prior to demolition.
6. Contractor shall de-program existing intercom and security devices prior to demolition.
7. Contractor shall relocate the existing CATV, telecommunications, intercom and security system equipment and devices as shown including extension of existing cables as required.

SPECIAL CONSIDERATIONS:

1. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month as required workdays. Contractor is expected to provide a crew of the same size that is provided during Monday through Friday. No exceptions.**
2. This bid package has an MBE goal of 20 percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, are required to attempt to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs unless specifically called for in this scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 26A

WORK SCOPE CATEGORY 31A SITEWORK

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all [Earthwork, Site Utilities and Selective Site Demolition](#) work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and / or specified under the following technical sections:

SECTION NAME

<u>01 71 23</u>	<u>FIELD ENGINEERING</u> ^{ADD#3}
02 30 00	SUBSURFACE DRILLING AND SAMPLING INFORMATION
02 41 16	STRUCTURE DEMOLITION
02 41 19	SELECTIVE DEMOLITION
3 30 00	CAST-IN-PLACE CONCRETE (as it relates to this work)
04 20 00	UNIT MASONRY ASSEMBLIES (as it relates to this work)
05 50 00	METAL FABRICATIONS (as it relates to this work)
05 52 13	PIPE AND TUBE RAILINGS (as it relates to this work)
05 53 20	STAIR NOSINGS (as it relates to this scope)
05 73 00	DECORATIVE METAL RAILINGS (as it relates to this work)
07 11 13	BITUMINOUS DAMPPROOFING (as it relates to this)
07 13 00	SHEET WATERPROOFING (as it relates to this)
07 92 00	JOINT SEALANTS (as it relates to this work)
31 10 00	SITE CLEARING
31 20 00	EXCAVATING FILLING AND GRADING
31 23 19	DEWATERING
32 01 90	TREE PROTECTION AND TRIMMING
32 12 00	HOT-MIXED ASPHALT PAVING (as it relates to this work)
32 13 00	CONCRETE PAVING (as it relates to this scope)
32 13 13	EXPOSED AGGREGATE CONCRETE (as it relates to this work)
32 13 73	CONCRETE PAVING JOINT SEALANTS (as it relates to this work)
32 31 00	FENCING AND GATES (as it relates to this work)
32 32 23	SEGMENTAL CONCRETE RETAINING WALLS (as it relates to this work) ^{ADD#3}
32 92 00	LAWNS AND GRASSES (as it relates to this work)
32 93 00	EXTERIOR PLANTS (as it relates to this work)
33 05 00	COMMON WORK RESULTS FOR UTILITIES
33 10 00	WATER UTILITIES
33 30 00	SANITARY SEWER SYSTEM
33 41 00	STORM DRAINAGE UTILITIES
33 46 00	SUBDRAINAGE

Geotechnical Report issued by [ECS Mid Atlantic, LLC](#) dated February 3, 2023 with addendum dated March 21, 2023 for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as not to misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Earthwork and Utilities Specific Scope:

1. Remove trees, shrubs, grass, and other vegetation, improvements, or obstructions, as required, to permit installation of new construction. Site clearing and grubbing, including removal and disposal, shall be as indicated on the plans. The contractor will acknowledge locations of all protected foliage per the plans and specifications prior to the start of any work, and will be responsible for installation, root pruning, signage, etc and maintenance of this protection while contractor is on the project. This Contractor includes dressing up and stabilization around Construction Manager Trailer and removal and restoration of area at project completion.
2. Contractor includes demolition and removal of masonry mockup panel(s) and foundation as directed by Construction Manager.
3. Contractor shall furnish, install, maintain and remove at the direction of the Construction Manager and/or any governing agency all sediment and erosion control measures and devices, stabilized construction entrances, storm water management facilities and all sediment traps required by the Contract Documents. This Contractor is responsible for all temporary seed required for the site stabilization including maintenance and watering as required per the specifications. Maintenance of green areas between the LOD and the existing sidewalks and/or curb shall be by this contractor. Contractor shall furnish, install, and maintain all structures, manholes, clean outs, and the like associated with its work as required by the Contract Documents for the entire duration of the project. Contractor shall furnish, install, and maintain all concrete, reinforcing, rip-rap, stone and filter cloth related to this work for the entire duration of the project. Contractor shall furnish, install, and maintain all required protection of inlets, structures, and any other erosion and sediment control device that is shown, implied, or required for the entire duration of the project at the Construction Manager's and/or governing agency's direction. Contractor shall remove and properly dispose of all protection after site is stabilized with approvals of Local Authorities, Owner and Construction Manager.
4. This Contractor is responsible for all snow and ice removal onsite inclusive of the public sidewalks along the LOD and owners property line throughout the duration of project at all construction areas in order for other trades to access the site, park, and perform work. Contractor should anticipate normal inclement weather conditions as defined by specifications.
5. This Contractor is responsible for dust control on site until project completion. This is limited to dust control created by the 31A package and site activities (all vehicles and equipment maneuvering throughout the construction area. The 31A package is not responsible for controlling dust generated from within the build or building pad, or from cutting/mixing operations unless dust is created from a direct operation of the 31A contractor.
6. Contractor is responsible for all layback, and/or sheeting and shoring requirements to perform this scope of work. Contractor to coordinate final location with Construction Manager, 03A, 04A, and 05A contractors. Contractor is responsible to coordinate design loading of sheeting and shoring with live load operations adjacent to sheeting and shoring to allow all contractors to perform their work. Contractor to include temporary wire rope railings, toe boards, and angles at all sheeting and shoring locations for safety reasons. Contractor to include jersey barriers at areas of construction traffic roadways as needed around shored or layback areas. **Contractor shall bench the outside grades along perimeter exterior walls of new building as required to accommodate masonry scaffolding while exterior masonry work is taking place. At the conclusion of masonry work, Contractor shall backfill/establish final grade as required.**^{ADD#3}
7. It is this contractor's responsibility to provide, install and maintain driven six-foot perimeter site security fencing with flagging in accordance with the LOD shown on P-ESD drawings. Contractor to assume three twenty-foot rolling gates and two man gates. Contractor shall furnish and install 16"x16" aluminum signs on fence and T-posts as follows: 30 ea. "No Trespassing; 10ea. "Hard Hat Area"; . Contractor shall coordinate with the "Right-of-Way"

inspector prior to the installation of the security fence. At completion of project, this contractor to remove from site all security fencing and gates and make repairs as necessary to restore to existing conditions.

8. Contractor shall be responsible for the demolition, removal, and disposal of the existing, asphalt foundations, wood piles, walls, site walls, site stairs, utilities, etc... Contractor shall legally dispose of wood piles once removed. Any testing of piles to determine to level of creosote for suitable disposal shall be done by this contractor.
9. Contractor shall provide adequate soil meeting the contract specifications for material to be used for backfill at retaining walls. This material shall be placed in close proximity to each wall. All final grading once the retaining wall has been installed, shall be by this contractor.
10. Contractor understands that the construction entrance may have to be removed, altered, repaired, and/or replaced in order for the permanent storm system, water system, and electrical system to be installed. It shall be this Contractor's responsibility to remove, alter, repair and / or replace and consistently maintain any and all aspects of the construction entrance for these systems to be installed. Contractor shall coordinate and prioritize its work as to eliminate impact to site access and / or the project schedule.
11. Contractor shall establish rough grade to within $\pm 1/10$ sub-grade, to include proper compaction and elevations for sidewalks, pavements, drives, curbs, landscape, and / or topsoil areas. Landscape, topsoil and other open areas (excluding ball fields and play areas) to be graded to within $\pm 0.20'$ of design elevation. Contractor shall furnish and install the backfill for curbs, gutters, and sidewalks to re-establish rough grade.
12. Contractor shall establish rough grade to within $\pm 1/10$ sub-grade, to include proper compaction and elevations for building pad for acceptance by 03A Contractor.
13. Contractor shall furnish and install a complete storm water drainage system including, but not limited to, all pipes, inlets, manholes, laterals, cleanouts, trench drains (both precast and pour in place inclusive of angles and grating), rip rap, geotextile fabric, observation wells, granite blocks, pipe anchors, gratings, bedding materials, foundations, cut off walls with rip rap outlets, perforate pvc at the play areas, temporary fence at ponds, storm filters, flow splitters, sand filters, underground quantity control facilities, trash racks, trench drains, and all related devices as required. Contractor shall flush the entire storm water drainage system at the direction of the Construction Manager and/or any governing agency, if required. This contractor shall be responsible for the complete installation of the trench drain located in the courtyard. **Contractor shall adjust all manhole/structure tops as required to align with finish grades/finished asphalt as needed. Multiple mobilizations will be required. For ANY structure tops, valves, etc. (water, sewer, storm) that are within paved areas, Contractor shall provide barricade protection to avoid damage from construction traffic.** ^{ADD#3}
14. Contractor shall furnish and install complete sanitary sewer systems in accordance with local codes consisting of all piping, manholes, laterals, cleanouts, and all related devices as required.
15. Contractor shall furnish and install a complete water system for potable water service and fire protection service outside the building in accordance with local codes consisting of all piping, manholes, laterals, valves, vaults, cleanouts, hydrants, standpipes and all related fittings as required. This particular utility will be brought into the building by this contractor. The 23A contractor will take responsibility from the first flange within the main building up to and including the backflow preventer, the 21A contractor will take responsibility at the backflow preventer furnished and installed by the 23A contractor. Coordination of exact location required by the 23A contractor is the responsibility of this contractor. Fire hydrant flushing is the responsibility of this contractor. Coordination of all inspections by AHJ, such as Fire Marshall, The Town of North East Water Works, Civil Engineer etc..., are the responsibility of this contractor.
16. Contractor shall furnish and install all outside site utilities systems complete, including all testing and proper connection to the appropriate systems outside the building. Contractor shall extend its piping from the indicated

utility connection to a point five (5) feet from the building line or to a point further than five (5) feet from the building if it is specifically indicated as such in the contract documents.

17. Contractor shall furnish, install, and maintain one (1) stabilized trailer staging area for the Construction Manager and one (1) additional stabilized area for parking. The trailer staging area shall be 100' x 75' (or 7,500 square feet in surface area) and stabilized with stabilizing cloth and 8" of CR-6. The parking area shall be 150' x 200' (or 30,000 square feet in surface area) and stabilized with stabilizing cloth and 8" of CR-6. At the direction of the Construction Manager, the Contractor shall remove and restore these areas to a finished condition. In the event that the stabilized trailer staging area and/or stabilized area for parking are installed at, around, or near any existing or future utilities that may need to be removed, repaired, and/or installed, this Contractor shall remove, adjust, and/or repair sections of these stabilized areas as necessary.
18. The Contractor shall furnish, install, and maintain suitable temporary construction access roads around the entire perimeter of the Building, as well as access from the main roadway to the building ring road. The Contractor shall remove the temporary roads and perform all necessary re-grading and restoration upon receipt of direction from the Construction Manager. Roads shall be adequate to support all construction traffic and equipment. The roads at a minimum shall be constructed of stabilizing cloth and 8" of adequately sized stone. The road shall be a minimum of 18' -0" wide and shall start \pm 10' - 0" off of the face of the building. In the event that the stabilized area is installed at, around, or near any existing or future utilities that may need to be removed, repaired, and/or installed, this Contractor shall remove, adjust, and/or repair sections of these stabilized areas as necessary at no additional cost to Owner or Construction Manager.
19. Limits of building pads shall extend a minimum of 25' beyond the building footprint and where applicable around the entire perimeter of the building. This shall also include the ground floor elevation inside the building which will need to be extended 10' beyond to allow for installation of the retaining wall footings. Final grades shall be temporarily adjusted as necessary to meet this requirement. At the direction of the Construction Manager, the Contractor shall re-grade around the perimeter of the building to the final grades required by the Contract Documents inclusive of removal of temporary ring road(s) or parking areas. Contractor shall rough grade to required tolerances for slab on grade. Backfilling of all building walls, foundations, and slabs shall be the responsibility of the Concrete Contractor. Backfilling of all site concrete walls, segmental retaining walls, site foundations, and site slabs installed by this contractor shall be the responsibility of this Contractor.
20. Contractor will close or cover all subgrade or utility excavation at the end of each workday unless exempted by Construction Manager's representative. Any unsuitable conditions caused as a result of contractor's failure to protect trenches or exposed subgrades will be remedied at contractor's sole expense and at no cost to the Owner or Construction Manager.
21. Contractor is responsible for re-spread, if allowed by owner and design team, and/or removal of the centrally located spoil stockpile generated by footings, walls, utilities, electrical excavations, plumbing excavations, etc provided there will be no design grade / elevation changes from the contract documents. For informational purposes only this is anticipated to be approximately 15,000cy, however this is in no way shall be interpreted as a stipulated sum, allowance or formal direction of quantity. Contractor is encouraged to perform own takeoff for this work as a full contract document set has been issued for use. Contractor is responsible for removal of any and all excess spoils from site that cannot be respread and stay within design parameters.
22. Contractor shall saw cut, remove, and dispose of existing asphalt to complete the work. Contractor shall provide all temporary protection requirements of these areas (steel plates, temporary patch, etc.) as required by the governing authority until the permanent asphalt patch has been completed. This will include any necessary temporary pavement markings.
23. This Contractor shall provide for all site demolition shown or implied on the drawings include, but is not limited to, the complete demolition, removal, and disposal of all existing out buildings, existing curb & gutter, asphalt paving & sub-base, concrete paving & sub-base, concrete sidewalks, concrete walls, concrete foundations, underground

utilities, fences, gates, rails, ball hoops, signs, plants, lights, parking bumpers, backstops, courts, decks, wood ramps, tanks, monitoring wells, posts, nets, post footings, field equipment footings, portable classroom footings, and the like. Contractor shall supply and install all plugs shown or required at all utilities that are removed. Contractor shall remove existing water meter vault and provide backfill to reestablish grade.

24. The contractor shall with the assistance of the CM coordinate with all public utilities for the removal of the existing services. With approval of Utility Company(s) it is this contractor's responsibility for the removal from site and or cutting, capping, filling and abandoning in place of all existing utilities. This shall include any work required within the LOD.
25. Contractor shall be responsible for maintaining the wash rack during construction. Contractor shall also be responsible for providing water and labor to operate two separate wash racks during the entire project until project completion or allowed removal of wash rack by LAHJ.
26. If contaminated soils are encountered Time and Material (tracked and approved by the CM) shall be reimbursed at cost.
27. Contractor is only responsible for the flushing of the water line to achieve a passing test for chlorination. This contractor is not responsible for a flow test if required by the Fire Marshall; this will be the 21A contractor's responsibility. Contractor shall include an additional flush-out test once the water meter has been installed by the 23A contractor.
28. This Contractor is responsible for keeping the streets clean of construction debris, mud, dirt etc... only if caused by this contractor's failure to properly maintain the construction entrance, stoned roadways, access roads, wash rack, etc. Maintenance of roadway debris caused by other contractor's general neglect to properly use the equipment and facilities provided by this contractor or Construction Manager, will be the respective contractor's debris to clean up and not the responsibility of this contractor.
29. Contractor shall provide all shown or required traffic maintenance for this scope inclusive of any costs for permits or bonds.
30. **Contractor is responsible for all final site connections to building roof drains, including furnishing and installing cast iron downspout boots as indicated.** ^{ADD#3}
31. **Contractor shall strip, screen, stockpile, protect, test, amend and stabilize all topsoil as required by the contract documents and governing jurisdiction having authority requirements. Contractor shall re-spread topsoil in all areas provided the topsoil meets project standards as indicated on drawings. Topsoil on ball fields shall be motor graded to within plus/minus 1/10 of a foot of the design elevation. Maximum size of screen shall be ¾" sieve. Topsoil shall be a 4-8-inch layer, lightly compacted to minimum thickness of 4 inches. Contractor shall supply tested, screened, amended topsoil from offsite if and/or when the onsite quantities are insufficient. Contractor to test and make all amendments to bring material within project specifications. It is the contractor's responsibility to submit test results to Construction Manager for approval with required recommendations to bring material within project specifications, prior to the start of any topsoil work. This requires the Contractor to hire a third-party independent testing agency. Contractor shall export/dispose of any surplus topsoil as needed.** ^{ADD#3}
32. **Contractor shall provide and install all forest conservation requirements to include, but is not limited to, all arborist reports, root pruning, tree protection signs, deep-root fertilization, crown reduction, watering, vertical mulching, and all other items outlined within the Forest Conservation Drawings and as required by the County Forester.** ^{ADD#3}
33. **Contractor includes independent third-party testing of all topsoil material and associated recommendations and amendments to bring material to within project specifications. Contractor to submit all tests and recommendations prior to the start of topsoil re-spread work for approval.** ^{ADD#3}

34. **Contractor shall furnish and install infield mix at baseball diamond and bullpens as indicated. Contractor shall coordinate with the 32B Contractor for the installation of baseball bases, plates and pitching rubber.** ^{ADD#3}
35. **Contractor shall furnish and install stone chips for shot put throwing sector area as indicated.** ^{ADD#3}
36. **Contractor shall furnish and install warning track, including stone dust, GAB, #57 stone, perforated PVC drainage, and filter cloth as indicated. Contractor will coordinate with 32B contractor regarding sequencing of work with adjacent fencing and turf installation.** ^{ADD#3}
37. **Contractor shall furnish and install all flowable fill as indicated for abandonment of existing utilities, including capping of existing utilities as required.** ^{ADD#3}

Surveying Specific Scope:

1. Contractor shall establish control on the site for the use of all trades. Three (3) permanent control points will be established on site in a location that will not be disturbed by construction. Contractor shall review the drawings within 15 days from NTP and confirm that all information has been provided for the performance of the lay-out work.
2. Contractor shall recover horizontal and vertical controls.
3. Contractor shall flag limits of clearing as shown on erosion and sediment control plans.
4. Contractor shall stakeout siltation and erosion control limits for sediment trap, outfall pipe, temporary swales, earth dikes, silt fence, super silt fence, ect...
5. Contractor shall stakeout construction entrances and contractor staging area.
6. Contractor shall stakeout rough grading with all corners of building pad.
7. Contractor shall stakeout sanitary and laterals – provide single offset at 50' stations and manhole locations. Laterals shall be at appropriate offsets.
8. Contractor shall stakeout waterline – on offsets at 25' stations with horizontal and vertical bends and fire hydrants.
9. Contractor shall stakeout storm drain – single offset at 50' stations and manhole locations. Include centerline of swales at 50' stations.
10. Contractor shall stakeout segmental block retaining walls – 25' stations.
11. Contractor shall stakeout concrete wall footings on site – 25' stations.
12. Contractor shall stakeout tennis courts as well as the tennis net posts.
13. Contractor shall stakeout all fencing.
14. Contractor shall stakeout light pole bases.
15. Contractor shall stakeout all electrical services and associated manholes.
16. Contractor shall stakeout telecommunication ductbank and associated handholes.

17. Contractor shall stakeout all curb and gutter. Contractor shall assume the restake of 10% of the overall length of curb and gutter.
18. Contractor shall stakeout HC parking areas for concrete paving.
19. Contractor shall stakeout areas of pervious concrete paving.
20. Contractor shall stakeout sidewalk not adjacent to curb on offsets.
21. Contractor shall provide 50 building corners each with 4 offsets each at locations to be dictated by the Construction Manager. This will be required for each phase of construction.
22. Contractor shall provide control line stakeout. Six (6) control lines in a North-South direction and six (6) control lines in an East-West direction will be provided. When floor slabs are poured, contractor will strike the column lines on to the ground floor, first, second and third floor slabs with a chalk line or similar apparatus and protect the markings with clear paint.
23. Contractor to provide brick points at 25-foot intervals and/or at the ends and midpoint of walls less than 50 feet long.
24. Contractor to include stakeout for Construction Manager's field office facility for construction.
25. Contractor to provide a wall check survey including slab elevation.
26. Contractor shall stakeout cast-in-place retaining wall footing at North end of site.
27. Contractor shall stakeout generator pad.
28. Contractor shall provide stakeout for all site amenities shown on sheets L500 – L502.
29. Contractor shall stakeout site sign, mural wall and pillars.
30. Contractor shall provide as built and certifications for all bioretention areas.
31. Contractor shall provide as built for waterlines, storm drain and sanitary sewer.
- ~~38. Contractor shall provide stakeout for all required work associated with Irishtown Road.~~ ADD#3

Segmental Retaining Specific Scope:

1. Contractor shall furnish and install all materials and services for a complete install of all segmental retaining walls in accordance with the contract documents.
2. Contractor shall meet all qualification as outlined in the contract documents.
3. Contractor is responsible for all engineering for this scope of work.
4. Contractor shall apply and pay for any permits required beyond the building permit supplied by owner.
5. Contractor shall furnish and install all modular units, cap adhesives, geosynthetic reinforcements, drainage fill, filtering material, filter fabric, drainage pipe, leveling pad, drainage board, drainage aggregate and anything reasonably incidental for a complete segmental retaining wall install per the contract documents.

6. Contractor is responsible for all backfilling of walls, once all associated segmental wall materials are set in place. Contractor shall furnish material that meets the requirement outlined on the segmental wall submittals.
7. Contractor shall coordinate and assist with setting sonotubes/sleeves for fencing or safety rails that are to be installed in walls.
8. Contractor shall remove excess spoils from this scope of work.

SPECIAL CONSIDERATIONS:

1. Excavation and/or drilling work under this contract is unclassified to design sub-grade, and includes but not limited to, excavation and removal of soil, shale, rock, fill, abandoned utilities, abandoned tanks, abandoned wells, abandoned structures, and any and all other subsurface conditions encountered in the contract area to this trades lowest design elevation in same area. The Contractor shall make his own soil and subsurface investigations, examination, tests, and exploratory borings of existing subsurface conditions to determine the nature of the soil conditions underlying the project site and thereby assuming all responsibility in excavating for this project without recourse to subsurface information obtained from the engineer, or indirectly from the Owner. The risk of unanticipated soil conditions from current elevations to this trades lowest design elevation in same area is solely the Contractor's. No extra or additional compensation for excavation or claim otherwise will be made or paid under this contract until added excavations below this trades lowest design elevation in same area is required. Contractor is responsible for furnishing and placing any import fill material or exporting surplus material ^{ADD#3} that may be required to complete the work.
2. Contractor shall perform its own survey of existing conditions and notify the Construction Manager of any discrepancy prior to the start of the Contractor's work. Start of work shall constitute this Contractor's acceptance of the existing conditions.
3. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month are required workdays. Contractor is expected to provide a crew of the same size that is provided during Monday - Friday.**
4. This bid package has an MBE goal of _15_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, must try to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification section 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs, unless specifically called for in this scope, are a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.

END OF SCOPE 31A

WORK SCOPE CATEGORY 32A ASPHALT & SITE CONCRETE

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all **ASPHALT & SITE CONCRETE** work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

<u>SECTION</u>	<u>NAME</u>
07 92 00	JOINT SEALANTS (as it relates to this scope)
10 75 00	FLAGPOLES (as it relates to this scope)
32 12 00	HOT-MIX ASPHALT PAVING
32 13 00	CONCRETE PAVING
32 13 13	EXPOSED AGGREGATE CONCRETE
32 13 73	CONCRETE PAVING JOINT SEALANTS

Geotechnical Report issued by [ECS Mid Atlantic, LLC dated February 3, 2023, with addendum dated March 21, 2023](#), for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as not to misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Asphalt Paving Specific Scope:

1. Contractor shall clean off all utility covers, curbs, sidewalks, and any other installed items of asphalt products in the paved areas.
2. Contractor shall provide all necessary permits, fees, and inspections that may be required.
3. Contractor includes all bonds for Right of Way Work. Contractor shall comply with all MDOT rules and regulations for the work within Public Right of Way. This will include all costs associated with maintenance of traffic required for this scope of work.
4. Contractor shall furnish and place stone fill as required to establish proper elevations. Contractor shall protect all excavations until approved including protection from freezing and dewatering.
5. Contractor shall furnish and install all sub-base courses, asphalt base (binder) courses, tack coats, overlay binder coats, overlay protective membranes, overlay protective membrane strips, asphalt surface courses, bitumastic sealant, and joint sealants. This work also includes cleaning the base course surface prior to installation of the surface course of all dirt and debris caused by this contractor or others.
6. Asphalt Binder Escalation: An adjustment will be made to the final Contract Sum if the price of asphalt binder fluctuates from the prevailing price as quoted here to the actual price on the date of placement. The Contract Sum will be adjusted if asphalt binder fluctuation is above 10% or below negative 10%. Only the differential percent change beyond the above noted 10% will be used.

For the purpose of making these calculations, a monthly price index is maintained by the MD State Highway Administration. This index is the average FOB selling price of asphalt binder at the supplier's terminal in the State of Maryland.

Contract price adjustment will be computed monthly by using the following formula:

$$F = (PP - Pb) / Pb$$

Where:

F = price increase/decrease of asphalt binder, expressed as a decimal
PP = index price of asphalt binder per ton at placement date
Pb = the prevailing index price of asphalt binder per ton in ~~November 2023~~ **March 2024**^{ADD#3}, as specified by MDSHA.

Contract Price adjustment due to Contractor or Owner when price of asphalt binder does not increase or decrease significantly.

(i.e.: $-0.10 > F > 0.10$) – Zero Dollars

Contract price adjustment is due to Contractor as a cost to Owner when price of asphalt binder increases significantly.

(i.e. $F > 0.10$) – $A = [(F - 0.10) \times T \times Pb] \times \text{Tons}$

Contract price adjustment is due to Owner as a credit to Contractor when price of asphalt binder decreases significantly.

(i.e. $F < -0.10$) – $A = [(F - 0.10) \times T \times Pb] \times \text{Tons}$

Where:

A = Addition/Deduction to Contract Sum
F = price increase/decrease of asphalt binder, expressed as a decimal
T = design target asphalt content as stated in the asphalt manufacturer's mix design for base or surface course expressed as a decimal
Pb = the prevailing index price of asphalt binder per ton in September of 2014 as specified by MDSHA
Tons = ACTUAL Tonnage of Hot Mix Asphalt Base or Surface (Base & Surface Mix cost increase/decrease will be calculated separately using the design target asphalt contents for each per "T" above), as documented by certified, dated, weighted tickets furnished by the asphalt manufacturer.

Please note that the Contract Price Adjustment does NOT include Overhead & Profit markup, which will not be allowed or required on adjustments due the Contractor or Owner. The Contract Price Adjustment also does not include a state sales tax or bond markup, but these markups/markdowns will be allowed/required on both adjustments due the Contractor and Owner.

Site Concrete Specific Scope:

1. Contractor includes exterior sport coatings at paved play areas. Contractor includes stenciling and markings of paved play areas.
2. Contractor shall furnish and install all curb and gutter, sidewalk, pervious paving, cast-in-place concrete caps at retaining walls and heavy-duty concrete paving shown.
3. Contractor shall install all pipe bollards supplied by others. Contractor to include concrete in pipe bollards. Contractor to include multiple mobilizations for this scope of work.
4. Contractor should assume to repair/replace 5% of the total lf of curb and gutter, sf of sidewalks, and sy of asphalt pavement on the project due to damage caused by others. All work performed for this 5% is to be tracked via

ticket and proper backup documentation must be provided to the Construction Manager. In the event 5% is not fully used at project completion, a deduct change order will be issued to the 32A contractor for the unused amount.

5. Construction Manager reserves the right to schedule the installation of the base course of asphalt paving and then the surface course of asphalt paving as two separate construction events. Contractor shall be responsible for repairing damages, even if caused by others, to the base course asphalt as necessary prior to the installation of the final course asphalt.
6. Contractor shall prepare and provide for all means required to tie in new asphalt to existing asphalt at all required locations.
7. Contractor shall provide patching of existing asphalt in existing roads as needed for the connection of utilities. Contractor shall saw cut, remove, and dispose of existing asphalt for the water line, gas, storm and electrical line(s). It will be the responsibility of this Contractor to furnish and install the permanent asphalt requirements at this location at the time and direction provided by the Construction Manager.
8. Contractor shall provide all fine grading and proof rolling as necessary prior to the installation of the sub-base course.
9. Construction Manager to provide survey stakeout and this contractor to provide any additional layout required to allow furnishing and installation of all concrete, reinforcing, formwork, excavation, backfilling, fine grading, fill, gravel(including granular backfill where called out), perforated PVC, under drains at its work (including stone and filter fabric), bio-barriers (where called out), fence sleeves, waterproofing, support chairs, concrete pumping, control joints, expansion joints (**zip cap type**), expansion filler, weld wire mesh, scoring joints, hot/cold weather protection, caulking and the like for all of the following site concrete items:
 - a. curb and gutter,
 - b. sidewalks (regular and heavy duty including all the way up to the face of building / face of door and the like, inclusive of stone as indicated
 - c. turn down slab details with all associated stone,
 - d. platforms/stoops,
 - e. concrete paving
 - f. exterior reinforced concrete pad(s),
 - g. ~~concrete stairs, switchbacks, landings, and pads at the exterior,~~ ^{ADD#3}
 - h. ~~exterior ramps and handicapped ramps,~~ ^{ADD#3}
 - i. furnish and install flagpole footing and flagpole and accessories,
 - j. exterior basketball goals and footings,
 - k. play areas (tennis courts, shot put pad, etc)
 - l. ~~new school sign footing; masonry and sign by others,~~ ^{ADD#3}
 - m. mow strip(s) at fencing, top of walls, and building perimeter,
 - n. dumpster pad(s) and other building service area concrete on grade,
 - o. ~~courtyards within the building footprint concrete,~~ ^{ADD#3}
 - p. and any other site concrete item called out within the drawings and specifications unless noted otherwise.
10. Contractor shall carefully review the 03A scope of work. It will be the responsibility of the Site Concrete Contractor to furnish and install any and all site concrete not specifically stated in this other scope of work.
11. Contractor shall seal all concrete called out to be sealed per the contract documents. Contractor shall provide one additional coat which will be applied just prior to substantial completion as directed by the Construction Manager.

12. Contractor shall protect threaded and/or embedded items to prevent bending, deformation, and corrosion. Contractor shall repair or restore all damaged threaded and/or embedded items prior to commencement of installation on these embedded items.
13. Contractor shall receive, unload, inventory, sign for and accept all embedded items furnished by other Contractors for installation by this Contractor. Contractor shall properly store and protect items furnished by others.
14. Contractor shall coordinate with Mechanical and Electrical Contractors to ensure all rough ins are complete prior to concrete work associated to this scope. Contractor shall coordinate with the Construction Manager regarding scheduling of all concrete pours. Contractor shall submit each week to the Construction Manager, in writing, a weekly pour schedule for coordination with other trades.
15. Contractor to protect CMU walls and/or adjacent finishes from splashing caused by concrete placement. If concrete splashes on CMU walls and/or adjacent finishes, then the Contractor shall be responsible for the removal of the splashed concrete.
16. Contractor shall provide as-built elevations shots of the slabs, platforms, ramps, loading areas, mechanical yards, the stage, and any other item installed by this Contractor. Contractor shall provide as-built elevations of all top of footing elevations. Contractor shall provide this as- built information within forty-eight (48) hours after concrete has been poured.
17. Contractor shall grade all backfill so that water runs away from any building structure.
18. Contractor shall furnish and install all moisture retaining covers and curing compounds as required to complete own work.
19. Contractor includes installation of zip cap expansion joint material, and all associated caulking of own work, inclusive of removing plastic cap and proper preparation prior to application of sealant.
20. Contractor shall furnish and install all integral color concrete, unit pavers and detectable warning pavers shown on sheet L500 in locations shown on the contract documents inclusive of all base material.

Road and Parking Accessories Specific Scope:

1. Contractor shall adhere to all Maryland Department of Transportation State Highway Administration's current Standard Specifications for Construction Materials and the ANSI D6.1-1971 Manual on Uniform Traffic Control Devices for Streets and Highways.
2. Contractor shall adhere to the product delivery, storage, handling, project conditions, products/materials, surface preparation, application, protection, and restoration requirements outlined within the project specifications and drawings.
3. Contractor shall coordinate and work with the Construction Manager with regards to the Fire Marshall's requirements.
4. Contractor shall adhere to the sign location and installation requirements outlined within the project specifications and drawings.
5. Contractor shall layout and paint all play area striping and all parking lot striping to include, but is not limited to all parking spaces, regular handicapped spaces, van accessible spaces, parahatch areas at handicapped spaces, bus spaces, traffic arrows, center lines, stop bars, and pedestrian crosswalks, fire lane curbing and associated stenciling, etc.

6. In the event final paving is not installed at same time as base paving, contractor has included temporary striping as required for temporary use at no extra cost to Owner.
7. Contractor shall furnish and install all concrete wheel stops.
8. Contractor shall layout and paint all stenciled markings.
9. Contractor shall furnish and install all posts and signs for site including but not limited to handicapped signs, van handicapped signs, drug free school zone signs, do not enter signs, student drop off signs, fire lane signs, no parking anytime signs, buses only signs, staff parking signs, one-way signs, no U-turn signs, reserved only signs, hybrid signs, etc.
10. Contractor includes nonelectrical exterior of building address signage as required by the fire marshal prior to final acceptance.

SPECIAL CONSIDERATIONS:

1. Excavation and/or drilling work under this contract is unclassified to design sub-grade, and includes but not limited to, excavation and removal of soil, shale, rock, fill, abandoned utilities, abandoned tanks, abandoned wells, abandoned structures, and any and all other subsurface conditions encountered in the contract area to this trades' lowest design elevation in same area. The Contractor shall make his own soil and subsurface investigations, examination, tests, and exploratory borings of existing subsurface conditions to determine the nature of the soil conditions underlying the project site and thereby assuming all responsibility in excavating for this project without recourse to subsurface information obtained from the engineer, or indirectly from the Owner. The risk of unanticipated soil conditions from current elevations to this trades' lowest design elevation in same area is solely the Contractor's. No extra or additional compensation for excavation or claim otherwise will be made or paid under this contract until added excavations below this trades' lowest design elevation in same area is required. Contractor is responsible for furnishing and placing any import fill material that may be required to complete the work.
2. Contractor shall perform its own survey of existing conditions and notify the Construction Manager of any discrepancy prior to the start of the Contractor's work. Start of work shall constitute this Contractor's acceptance of the existing conditions.
3. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month are required workdays.**
4. Contractor is fully aware and has properly taken into account alternates that may affect his package.
5. This bid package has an MBE goal of _15_ percent. All prime contractors, including certified MBE firms, when submitting bids or proposals as a prime contractor, are required to attempt to achieve this goal from MDOT certified MBE firms. All submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of MBE Attachments A and B with its bid as described in specification 00 43 39 - Minority Business Enterprises Procedures.

EXCLUDED FROM THIS CONTRACTOR WORK:

1. Testing costs unless specifically called for in this scope, a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.
2. Tennis court nets and posts and color coating/lines for tennis courts

END OF SCOPE 32A

WORK SCOPE CATEGORY 32B Landscaping & Fencing

The work of this bid category includes but is not limited to providing all labor, equipment, materials, scaffolding, hoisting and incidentals to complete all [Landscaping & Fencing](#) work in accordance with the specifications, drawings and applicable codes. All work is to be performed as shown on the plans and/or specified under the following technical sections:

<u>SECTION</u>	<u>NAME</u>
<u>12 93 73</u>	<u>SOUND BARRIERS</u>
31 20 00	EXCAVATING FILLING AND GRADING (as it relates to this scope)
32 01 90	TREE PROTECTION AND TRIMMING
32 31 00	FENCES AND GATES
32 32 23	SEGMENTAL CONCRETE RETAINING WALLS ^{ADD#3}
32 33 00	SITE FURNISHINGS
32 92 00	LAWNS AND GRASSES
32 93 00	EXTERIOR PLANTS

Geotechnical Report issued [ECS Mid Atlantic, LLC](#) dated February 3, 2023, with addendum dated March 21, 2023, for informational purposes only.

In addition to the above, trade contractors are to include, but are not limited to, AIA Documents A201 and A401, and various other Technical Specifications interfacing with this work. The Contractors are required to review the work descriptions of the other categories so as not to misunderstand the scope responsibilities. The Contractors are also bound to the HESS Safety Manual and all related weekly and daily documentation for [North East Middle/High School Replacement Project](#) for the administration of the contract.

General Scope:

Contractor is responsible for General Scope of Work listed elsewhere in this specification section.

~~**WE NEED TO ADD A SPECIFIC SCOPE FOR SEGMENTAL WALLS**~~^{ADD#3}

THE SPECIFIC SCOPE OF WORK IS TO INCLUDE, but is not limited to, the following items:

Fencing Specific Scope:

1. Contractor shall furnish and install all chain link and ornamental fencing related items to include, but is not limited to, posts, rails, braces, bracing assemblies, powder coating, bottom tension wire, continuous top rails, continuous bottom rails, continuous mid rails, fabric, terminal posts, line posts, gate posts, hinge posts, terminal & gate post bracing assemblies, stretcher bars, sleeves, non-shrink grout, gates, hardware, accessories, tie wire, grounding, padlocks, knox boxes and/or knox locks, excavation for posts, concrete formwork/sonatubes, concrete for posts, fence line grading, and the like for a complete scope of work.
2. Contractor to review specifications to ensure all applicable pieces and parts coated per spec; color to be Black.
3. Contractor shall furnish and install fence/gate assemblies to include, but is not limited to, the following locations: site walls, fire lanes, play areas, basketball courts, tennis courts, ball fields, backstops, service yards, general site, and parking lots.
4. Contractor shall furnish and install the screen fence identified on sheet L502 in locations shown on the contract documents.
5. Contractor shall furnish and provide layout for the sleeves needed for the fence posts located on top of concrete walls and segmented walls (if applicable).
6. Contractor to include all mow strips at own work.
7. Contractor to include one lock with two keys for each gate; locks to be "Steel Secrete Service" per specifications.

8. Contractor to provide warranty per specifications for all coated rails, fencing and gates against peeling, cracking and corrosion.
9. Contractor shall furnish and install all guardrail as shown on contract documents.
10. **Contractor to furnish and install polycap fence cap as indicated.** ^{ADD#3}
11. **Contractor to furnish and install fencing within all dugouts as indicated on A905** ^{ADD#3}

Site Amenities Specific Scope:

1. Contractor shall furnish and install all site amenities, to include but limited to trash receptacles, benches **throughout site and in dugouts,** ^{ADD#3} flag poles, skate deterrent and bike racks, soccer goals, **foul poles, batting cages, baseball bases, plates, pitcher's rubber etc., baseball/athletic field backstops,** ^{ADD#3} tree grates as detailed on sheets L500, L501 and L502. Contractor shall provide all core drilling, anchoring materials, and the like to complete the installation of the items. Contractor to coordinate and install foundations required for these items.
2. Contractor shall furnish and install all footings required for items included in this scope.
3. ~~Contractor shall furnish and install infield mix and warning track as detailed in the Civil Drawings.~~ ^{ADD#3}
4. All furnishings are to be installed level, plumb and true and securely anchored or positioned at locations as indicated on drawings.
5. **Contractor shall furnish the shotput toe board for installation by 32A Contractor.** ^{ADD#3}
6. **Contractor shall furnish and install sound barriers as specified. The sound barrier is located at the East corner of the High School building, enclosing the exterior dust collector.** ^{ADD#3}

Landscaping Specific Scope:

1. ~~Contractor shall strip, screen, stockpile, protect, test, amend and stabilize all topsoil as required by the contract documents and governing jurisdiction having authority requirements. Contractor shall re-spread topsoil in all areas provided the topsoil meets project standards as indicated on drawings. Topsoil on ball fields shall be motor graded to within plus/minus 1/10 of a foot of the design elevation. Maximum size of screen shall be ¾" sieve. Topsoil shall be a 4-8 inch layer, lightly compacted to minimum thickness of 4 inches. Contractor shall supply tested, screened, amended topsoil from offsite if and/or when the onsite quantities are insufficient. Contractor to test and make all amendments to bring material within project specifications. It is the contractor's responsibility to submit test results to Construction Manager for approval with required recommendations to bring material within project specifications, prior to the start of any topsoil work. This requires the Contractor to hire a third-party independent testing agency.~~ ^{ADD#3}
2. **Contractor shall layout all landscaping with flagging and receive approval from the landscape architect and CCPS prior to installation.** Contractor shall provide and install all landscape plantings to include, but is not limited to, all guarantees, certificates, submittals, plants, trees, shrubs, topsoil amendments, sand (if required), organic matter, planting soil mix, anti-desiccant, tree paint, herbicide, fertilizer, stakes for supporting trees, wires for guying trees, mulch, and the like to complete all landscape plantings shown or implied within the drawings and specifications. Contractor shall furnish water and necessary temporary or permanent irrigation equipment per the specifications.
3. Contractor shall provide and install all seeding and sod to include, but is not limited to, guarantees, certificates, submittals, delivery, storage, topsoil testing and amendments, sand (if required), organic matter, seed mixtures, sod types, mulch, hydraulic seeding, sod stakes, water, protection, restoration, cleaning, maintenance, turf inspections/reviews by a qualified turf agronomist, and the like to complete all seeding and sod shown or implied within the drawings and specifications. Contractor shall furnish water and necessary temporary or permanent irrigation equipment per the specifications. Maintenance of seed and sod will be strictly enforced, or areas will not be accepted.

- ~~4. Contractor shall provide and install all forest conservation requirements to include, but is not limited to, all arborist reports, root pruning, tree protection signs, deep root fertilization, crown reduction, watering, vertical mulching, and all other items outlined within the Forest Conservation Drawings and as required by the County Forester. ^{ADD#3}~~
5. Contractor shall provide and install all maintenance requirements to include, but is not limited to, maintaining all plants and turf in a healthy condition. Contractor shall provide for all pruning, cutting, watering, fertilizing, cultivating, weeding, mulching, tightening/repairing of staking, setting plants to proper grades or upright in position, restoration of the planting saucer, and furnishing/applying sprays and other items as necessary to keep the plantings free of insects and disease and in a thriving condition. Maintenance shall begin immediately after each planting is completed and shall continue for a period of twelve months following project substantial completion. Contractor shall furnish own water and irrigation equipment and irrigate areas as required throughout this period. Maintenance of the interior courtyard after occupancy of the building will be performed by CCPS, as access is restricted.
- ~~6. Contractor includes independent third party testing of all topsoil material and associated recommendations and amendments to bring material to within project specifications. Contractor to submit all tests and recommendations prior to the start of topsoil work for approval. ^{ADD#3}~~
7. Contractor includes all mulching, pretreatment of mulched areas, inclusive of mulch walkways, maintenance of mulching etc.
8. Contractor includes all portable drip irrigation bags as required.
9. Contractor includes monthly turf inspections by a qualified turf agronomist for a period of one year following project substantial completion. The months of Dec., Jan. and Feb. are exempt from this requirement.
10. Contractor shall furnish and install the synthetic turf and decomposed granite in locations shown on the contract documents and inclusive of all subgrade material.

SPECIAL CONSIDERATIONS:

1. Excavation and/or drilling work under this contract is unclassified to design sub-grade, and includes but not limited to, excavation and removal of soil, shale, rock, fill, abandoned utilities, abandoned tanks, abandoned wells, abandoned structures, and any and all other subsurface conditions encountered in the contract area to this trades lowest design elevation in same area. The Contractor shall make his own soil and subsurface investigations, examination, tests, and exploratory borings of existing subsurface conditions to determine the nature of the soil conditions underlying the project site and thereby assuming all responsibility in excavating for this project without recourse to subsurface information obtained from the engineer, or indirectly from the Owner. The risk of unanticipated soil conditions from current elevations to this trades lowest design elevation in same area is solely the Contractor's. No extra or additional compensation for excavation or claim otherwise will be made or paid under this contract until added excavations below this trades lowest design elevation in same area is required. Contractor is responsible for furnishing and placing any import fill material that may be required to complete the work.
2. Contractor shall perform its own survey of existing conditions and notify the Construction Manager of any discrepancy prior to the start of the Contractor's work. Start of work shall constitute this Contractor's acceptance of the existing conditions.
3. **Contractor acknowledges and has accounted for within his bid, the second and fourth Saturdays of each month are required workdays.**
4. Contractor is fully aware and has properly taken into account alternates that may affect his package.
5. This bid package has no MBE goals assigned.

EXCLUDED FROM THIS CONTRACTOR WORK is:

1. Testing costs, unless specifically called for in this scope, are a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents.
2. Pergolas shown in B&C on sheet L502.

END OF SCOPE 32B

SECTION 09 96 00 - HIGH-PERFORMANCE COATINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes surface preparation and the application of high-performance coating systems.

1. Exterior Substrates:

- ~~a. Concrete, vertical surfaces.~~
- ~~b. a. Concrete masonry units (CMUs).~~
- ~~c. b. Steel.~~
- ~~d. c. Galvanized metal.~~

2. Interior Substrates:

- a. Concrete, vertical surfaces.
- b. Concrete masonry units (CMUs).
- c. Steel.
- d. Galvanized metal.
- e. Gypsum board.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.

1. Indicate VOC content.

- B. Sustainability Submittals - Interior Field-Applied Products: Comply with Section 01 81 13.

1. Submit a completed Green Building Materials Certification Form that lists permanently installed products and indicates material costs. Attach letter from manufacturer(s) describing product(s) contribution to LEED v4, including, but not limited to, the following:

- a. MR Credit 2: Environmental Product Declarations (EPDs): Submit an Environmental Product Declaration.
- b. MR Credit 4: Material Ingredients: Submit a Material Ingredient Report.
- c. EQ Credit 2: Low-Emitting Materials: Submit MSDS sheet indicating VOC content and VOC emission testing certificate for wet-applied interior adhesives, sealants, paints, and coatings. Indicate volume of product anticipated to be used on-site.

- C. Samples for Initial Selection: For each type of topcoat product indicated.

- D. Samples for Verification: For each type of coating system and each color and gloss of topcoat indicated.

- 1. Submit Samples on rigid backing, 8 inches square.
- 2. Apply coats on Samples in steps to show each coat required for system.
- 3. Label each coat of each Sample.
- 4. Label each Sample for location and application area.

- E. Product List: Cross-reference to coating system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

1.3 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Coatings: 5 percent, but not less than 1 gal. of each material and color applied.

1.4 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Architect will select one surface to represent surfaces and conditions for application of each coating system.
 - a. Wall and Ceiling Surfaces: Provide samples of at least 100 sq. ft..
 - b. Other Items: Architect will designate items or areas required.
 - 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.6 FIELD CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply coatings when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
- C. Do not apply exterior coatings in snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the products listed in the Exterior High-Performance Coating Schedule or Interior High-Performance Coating Schedule for the coating category indicated.

2.2 HIGH-PERFORMANCE COATINGS, GENERAL

- A. Material Compatibility:
 - 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
 - 3. Products shall be of same manufacturer for each coat in a coating system.
- B. Material Emissions and Pollutant Control: Verify not less than 85 percent of field-applied paints and coatings that are inside the weatherproofing system comply with one of the following:
 - 1. Low-Emitting Materials: Verify VOC emissions comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation

- of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Verify formaldehyde emissions do not exceed 9 mcg/cu. m or 7 ppb, whichever is less.
2. Verify VOC content does not exceed limits of authorities having jurisdiction and the following:
- a. Flat Coatings: 50 g/L.
 - b. Nonflat Coatings: 100 g/L.
 - c. Nonflat - High-Gloss Coatings: 150 g/L.
 - d. Concrete/Masonry Sealers: 100 g/L.
 - e. Floor Coatings: 100 g/L.
 - f. Industrial Maintenance Coatings: 250 g/L.
 - g. Low-Solids Coatings: 120 g/L.
 - h. Mastic Texture Coatings: 100 g/L.
 - i. Metallic Pigmented Coatings: 500 g/L.
 - j. Pretreatment Wash Primers: 420 g/L.
 - k. Primers, Sealers, and Undercoaters: 100 g/L.
 - l. Reactive Penetrating Sealers: 350 g/L.
 - m. Recycled Coatings: 250 g/L.
 - n. Rust-Preventive Coatings: 250 g/L.
- C. Colors: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
- 1. Concrete: 12 percent.
 - 2. Masonry (Clay and CMUs): 12 percent.
 - 3. Gypsum Board: 12 percent.
- C. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- D. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- E. Proceed with coating application only after unsatisfactory conditions have been corrected.
- 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and coating systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
- 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
- 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.

- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
- E. Masonry Substrates: Remove efflorescence and chalk. Do not coat surfaces if moisture content, alkalinity of surfaces, or alkalinity of mortar joints exceeds that permitted in manufacturer's written instructions.
- F. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
 - 1. SSPC-SP 6/NACE No. 3.
- G. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- H. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied coatings.

3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
 - 1. Use applicators and techniques suited for coating and substrate indicated.
 - 2. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, coat surfaces behind permanently fixed equipment or furniture with prime coat only.
 - 3. Coat backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 - 4. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- D. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.
 - 1. Contractor shall touch up and restore coated surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with coating manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

- C. Protect work of other trades against damage from coating operation. Correct damage to work of other trades by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

3.6 EXTERIOR HIGH-PERFORMANCE COATING SCHEDULE

~~A. Concrete Substrates, Vertical Surfaces:~~

~~1. Pigmented Polyurethane over Epoxy System (Gloss):~~

~~a. Benjamin Moore & Company:~~

- ~~1) Prime Coat: Corotech Polyamide Epoxy V400.~~
- ~~2) Intermediate Coat: Corotech Polyamide Epoxy V400.~~
- ~~3) Topcoat - Gloss: Corotech Aliphatic Acrylic Urethane Coating Gloss V500.~~

~~b. International Paint LLC:~~

- ~~1) Prime Coat: Devran 203.~~
- ~~2) Intermediate Coat: Devran 203.~~
- ~~3) Topcoat - Gloss: Devthane 379 Series.~~

~~c. PPG Paints:~~

- ~~1) Prime Coat: Amerlock 2 VOC Epoxy Coating.~~
- ~~2) Intermediate Coat: Amerlock 2 VOC Epoxy Coating.~~
- ~~3) Topcoat - Gloss: Amershield VOC Acrylic Polyurethane~~

~~d. Sherwin-Williams Company:~~

- ~~1) Prime Coat: S-W Pro Industrial Waterbased Catalyzed Epoxy Finish, B73-300 Series. B73-300~~
- ~~2) Intermediate Coat: S-W Pro Industrial Waterbased Catalyzed Epoxy Finish, B73-300 Series.~~
- ~~3) Topcoat - Gloss: S-W Acrolon Waterbased Acrolon 100 WB Urethane.~~

~~e. Tnemec Company, Inc.:~~

- ~~1) Prime Coat: Series 27 W.B. Typoxy.~~
- ~~2) Intermediate Coat: Series 27 W.B. Typoxy.~~
- ~~3) Topcoat - Semi-Gloss: Series 1081 Endura-Shield.~~

~~B. Concrete Substrates, Horizontal Surfaces:~~

~~1. Epoxy Non-Slip Deck Coating System:~~

~~a. Benjamin Moore & Company:~~

- ~~1) Prime Coat: As recommended in writing.~~
- ~~2) Intermediate Coat: As recommended in writing.~~
- ~~3) Topcoat - Gloss: Corotech Polyamide Epoxy V400.~~

~~b. International Paint LLC:~~

- ~~1) Prime Coat: Pre Prime 167.~~
- ~~2) Intermediate Coat: Devran 224V.~~
- ~~3) Topcoat - Gloss: Devran 224V with additive.~~

~~c. PPG Paints:~~

- ~~1) Prime Coat: As recommended in writing.~~
- ~~2) Intermediate Coat: As recommended in writing.~~
- ~~3) Topcoat - Gloss: Amerlock 2 VOC Epoxy Coating (self priming) with 98-848 AS anti-Slip Additive PPG Architectural Coatings, PPG Paints.~~

~~d. Sherwin-Williams Company:~~

- ~~1) Prime Coat: As recommended in writing.~~
- ~~2) Intermediate Coat: As recommended in writing.~~
- ~~3) Topcoat - Gloss: Armorseal® 8100 Water Based Epoxy Floor Coating w Anti-Slip Additive~~

~~e. Tnemec Company, Inc.:~~

- ~~1) Prime Coat: Series 287 Enviro-Pox.~~
- ~~2) Intermediate Coat: Not required.~~
- ~~3) Topcoat - Semi-Gloss: Series 287 Enviro-Pox (add 4 ounces 211-2012 Fine Glass Beads).~~
- ~~4) Topcoat - Gloss: Series 297 Enviro-Glaze (add 4 ounces 211-2012 Fine Glass Beads).~~

~~C.A.~~ CMU Substrates:

1. Pigmented Polyurethane over High-Build Epoxy System - Gloss:

a. Benjamin Moore & Company:

- 1) Block Filler: Corotech Epoxy Block Filler V163.
- 2) Intermediate Coat: Corotech Polyamide Epoxy V400.
- 3) Topcoat: Corotech Aliphatic Acrylic Urethane Coating Gloss V500.

b. International Paint LLC:

- 1) Prime Coat: Tru-Glaze-WB 4015.
- 2) Intermediate Coat: Bar-Rust 231 Series.
- 3) Topcoat - Gloss: Devthane 379 Series.

c. PPG Paints:

- 1) Prime Coat: Amercoat 68HS VOC Zinc Rich Epoxy Primer.
- 2) Intermediate Coat: Amerlock 2 VOC Epoxy Coating.
- 3) Topcoat: Amershield VOC Acrylic Polyurethane.

d. Sherwin-Williams Company:

- 1) Prime Coat: Epoxy, S-W Cement Plex 875 Acrylic Block Filler.
- 2) Intermediate Coat: S-W Pro Industrial Waterbased Catalyzed Epoxy B73-300 Series.
- 3) Topcoat - Gloss: S-W Acrolon Waterbased Acrolon 100 WB Urethane.

e. Tnemec Company, Inc.:

- 1) Prime Coat: Series 1254 EpoxoBlock WB.
- 2) Intermediate Coat: Series 27 W.B. Typoxy.
- 3) Topcoat - Gloss: Series 297 Enviro-Glaze.

~~D.B.~~ Steel Substrates: Exposed structural canopy steel, steel hand and guardrails, angle lintels and hung plate substrates.

1. Pigmented Polyurethane over Zinc-Rich Primer System:

a. Benjamin Moore & Company:

- 1) Prime Coat: Corotech Organic Zinc Rich Primer V170.
- 2) Intermediate Coat: Corotech Aliphatic Acrylic Urethane Coating Gloss V500.
- 3) Corotech Aliphatic Acrylic Urethane Coating Gloss V500.

b. Devoe Coatings:

- 1) Prime Coat: Cathacoat 302H.
- 2) Intermediate Coat: Bar-Rust 231 Series.
- 3) Topcoat - Gloss: Devthane 379.

- c. International Paint LLC:
 - 1) Prime Coat: Cathacoat 302H.
 - 2) Intermediate Coat: Bar-Rust 231 Series.
 - 3) Topcoat - Gloss: Devthane 379 Series.
- d. PPG Paints:
 - 1) Prime Coat: Amercoat 68HS VOC Zinc Rich Epoxy Primer.
 - 2) Intermediate Coat: Amerlock 2 VOC Epoxy Coating.
 - 3) Topcoat: Amershield VOC Acrylic Polyurethane.
- e. Sherwin-Williams Company:
 - 1) Prime Coat: S-W Zinc Clad XI WB Inorganic Zinc-Rich Coating.
 - 2) Intermediate Coat: S-W Pro Industrial Waterbased Catalyzed Epoxy B73-300 Series.
 - 3) Topcoat: S-W Acrolon Waterbased Acrolon 100 WB Urethane Gloss Enamel.
- f. Tnemec Company, Inc.:
 - 1) Prime (Shop) Coat: Series 94H2O Hydro Zinc. Refer to applicable Division 05 Section.
 - 2) Intermediate Coat: Series 27 W.B. Typoxy.
 - 3) Topcoat - Gloss: 1080 Endura-Shield.

E.C. Galvanized-Metal Substrates:

- 1. Pigmented Polyurethane over Epoxy Primer System:
 - a. Benjamin Moore & Company:
 - 1) Prime Coat: Corotech Waterborne Bonding Primer V175.
 - 2) Intermediate Coat: Corotech Aliphatic Acrylic Urethane Coating Gloss V500.
 - 3) Corotech Aliphatic Acrylic Urethane Coating Gloss V500.
 - b. International Paint LLC:
 - 1) Prime Coat: Devran 203.
 - 2) Intermediate Coat: Devthane 379 Series.
 - 3) Topcoat: Devthane 379 Series.
 - c. PPG Paints:
 - 1) Prime Coat: Amerlock 2 VOC.
 - 2) Intermediate Coat: Amerlock 2 VOC.
 - 3) Topcoat: Amershield VOC Acrylic Polyurethane.
 - d. Sherwin-Williams Company:
 - 1) Prime Coat: Pro Cryl Universal Primer B66-1310 or, for high abrasion areas: DTM Wash Primer B71Y00001.
 - 2) Intermediate Coat: Pro Industrial Waterbased Catalyzed Epoxy B73-300 Series.
 - 3) Topcoat: S-W Acrolon Waterbased Acrolon 100 WB Urethane Gloss Enamel.
 - e. Tnemec Company, Inc.:
 - 1) Prime Coat: Series 27 W.B. Typoxy.
 - 2) Intermediate Coat: Series 27 W.B. Typoxy.
 - 3) Topcoat - Gloss: 1080 Endura-Shield.

3.7 INTERIOR HIGH-PERFORMANCE COATING SCHEDULE

A. Concrete Substrates, Vertical Surfaces:

1. Epoxy-Modified Latex System:

a. Benjamin Moore & Company:

- 1) Prime Coat: Super Spec Waterborne Latex Block Filler 160; squeegee into bugholes without removal of filler material from wall.
- 2) Intermediate Coat: Epoxy-modified latex, matching topcoat.
- 3) Topcoat - Semi-gloss: Super Spec HP Acrylic Epoxy Semi-Gloss Catalyzed P43.

b. Benjamin Moore & Company; Corotech Line:

- 1) Prime Coat: Corotech Epoxy Block Filler V163; squeegee into bugholes without removal of filler material from wall.
- 2) Intermediate Coat: Corotech Waterborne Amine Epoxy Coating V440.
- 3) Topcoat - Semi-gloss: Corotech Waterborne Amine Epoxy Coating V440.

c. International Paint LLC:

- 1) Prime Coat: Tru-Glaze WB 4015; squeegee into bugholes without removal of filler material from wall.
- 2) Intermediate Coat: Match topcoat.
- 3) Topcoat - Semi-Gloss: Tru-Glaze WB 4426.

d. PPG Paints:

- 1) Prime Coat: Pitt Glaze WB 16-90 Epoxy Block Filler; squeegee into bugholes without removal of filler material from wall.
- 2) Intermediate Coat: Epoxy-modified latex, matching topcoat.
- 3) Topcoat - Semi-gloss: Pitt Glaze WB 1 16-510 Series Water Based Pre-catalyzed Acrylic Epoxy.

e. Sherwin-Williams Company:

- 1) Prime Coat: Cement Plex 875 WB Epoxy Block Filler (high moisture areas), or S-W Loxon Block Surfacers, LX01 Series; squeegee into bugholes without removal of filler material from wall.
- 2) Intermediate Coat: Epoxy-modified latex, matching topcoat.
- 3) Topcoat - Gloss: Pro Industrial Water Based Catalyzed Epoxy EG B 73-300Series.

f. Tnemec Company, Inc.:

- 1) Prime Coat: Series 1254 EpoxoBlock WB; squeegee into bugholes without removal of filler material from wall.
- 2) Intermediate Coat: Series 27 W.B. Typoxy.
- 3) Topcoat - Semi-Gloss: Series 287 Enviro-Pox.

B. CMU Substrates:

1. Epoxy-Modified Latex System:

a. Benjamin Moore & Company:

- 1) Super Spec Waterborne Latex Block Filler 160; squeegee into pores without removal of filler material from wall.
- 2) Intermediate Coat: Epoxy-modified latex, interior, matching topcoat.
- 3) Topcoat - Semi-gloss: Super Spec HP Acrylic Epoxy Semi-Gloss Catalyzed P43.

- b. Benjamin Moore & Company; Corotech Line:
 - 1) Prime Coat: Corotech Epoxy Block Filler V163; squeegee into pores without removal of filler material from wall.
 - 2) Intermediate Coat: Corotech Waterborne Amine Epoxy Coating V440.
 - 3) Topcoat - Semi-gloss: Corotech Waterborne Amine Epoxy Coating V440.
 - c. International Paint LLC:
 - 1) Prime Coat: Tru-Glaze WB 4015; squeegee into pores without removal of filler material from wall.
 - 2) Intermediate Coat: Matching topcoat.
 - 3) Topcoat - Semi Gloss: Tru-Glaze WB 4426.
 - d. PPG Architectural Coatings, PPG Paints:
 - 1) Prime Coat: Pitt Glaze WB 16-90 Epoxy Block Filler; squeegee into pores without removal of filler material from wall.
 - 2) Intermediate Coat: Epoxy-modified latex, matching topcoat.
 - 3) Topcoat - Semi-gloss: Pitt Glaze WB 16-510 Series Pre-Catalyzed Acrylic Water Based Epoxy.
 - e. Sherwin-Williams Company:
 - 1) Prime Coat: Cement Plex 875 WB Epoxy Block Filler (high moisture areas), or S-W Loxon Block Surfacers, A24W200; squeegee into pores without removal of filler material from wall.
 - 2) Intermediate Coat: Epoxy-modified latex, matching topcoat.
 - 3) Topcoat - Gloss: Pro Ind. Water Based Catalyzed Epoxy Gloss B73-300 Series.
 - f. Tnemec Company:
 - 1) Prime Coat: Series 1254 EpoxoBlock WB; squeegee into pores without removal of filler material from wall.
 - 2) Intermediate Coat: Series 27 W.B. Typoxy.
 - 3) Topcoat - Semi-Gloss: Series 287 Enviro-Pox.
- C. Steel Substrates:
- 1. Epoxy-Modified Latex System: Low contact/low traffic areas such as, but not limited to exposed structural steel, overhead decking, pipes, ducts, etc.
 - a. Benjamin Moore & Company:
 - 1) Prime Coat: Corotech Acrylic Metal Primer V110.
 - 2) Intermediate Coat: Corotech Waterborne Amine Epoxy Coating V440.
 - 3) Topcoat: Corotech Waterborne Amine Epoxy Coating V440.
 - b. International Paint LLC:
 - 1) Prime Coat: Devran 203.
 - 2) Intermediate Coat: Tru-Glaze WB 4426.
 - 3) Topcoat: Tru-Glaze WB 4428.
 - c. PPG Paints:
 - 1) Prime Coat: Amerlock 2 VOC Epoxy
 - 2) Intermediate Coat: Amerlock 2 VOC Epoxy
 - 3) Topcoat - Gloss: Amerlock 2 VOC Epoxy
 - d. Sherwin-Williams Company:
 - 1) Prime Coat: S-W Pro Cryl Universal Metal Primer B66-310 Series.
 - 2) Intermediate Coat: Epoxy-modified latex, interior, matching topcoat.

- 3) Topcoat - Gloss: Pro Ind. S-W Water Based Catalyzed Epoxy Gloss B73-300 Series.
 - e. Tnemec Company, Inc.:
 - 1) Prime Coat: Series 27 W.B. Typoxy.
 - 2) Intermediate Coat: Series 27 W.B. Typoxy.
 - 3) Topcoat - Gloss: Series 297 Enviro-Glaze.
- 2. Pigmented Polyurethane over Zinc-Rich and Epoxy System: High contact/high traffic areas such as, but not limited to doors, frames, (including exterior side of exterior doors and frames) railing pipes, etc.
 - a. Benjamin Moore & Company:
 - 1) Prime Coat: Corotech Organic Zinc Rich Primer V170.
 - 2) Intermediate Coat: Corotech Polyamide Epoxy Primer V150.
 - 3) Topcoat - Semi-gloss: Corotech Aliphatic Acrylic Urethane Coating Semi-Gloss V510.
 - b. International Paint LLC:
 - 1) Prime Coat: Catha-Coat 302H.
 - 2) Intermediate Coat: Bar-Rust 231 Series.
 - 3) Topcoat - Semi-Gloss: Devthane378 Series.
 - c. PPG Paints:
 - 1) Prime Coat: Amercoat 68HS VOC Zinc Rich Epoxy Primer.
 - 2) Intermediate Coat: Amerlock 2 VOC Epoxy Coating.
 - 3) Topcoat: Amershield VOC Acrylic Polyurethane.
 - d. Sherwin-Williams Company:
 - 1) Prime Coat: S-W Zinc Clad XI WB Inorganic Zinc-Rich Coating.
 - 2) Intermediate Coat: S-W Acrolon Waterbased Acrolon 100 WB Urethane.
 - 3) Topcoat: S-W Acrolon Waterbased Acrolon 100 WB Urethane.
 - e. Tnemec Company, Inc.:
 - 1) Prime (Shop) Coat: Series 94H2O Hydro-Zinc. Refer to applicable Division 05 Sections.
 - 2) Intermediate Coat: Series 287 Enviro-Pox.
 - 3) Topcoat - Semi-Gloss: Series 248-clear Everthane.
- D. Galvanized-Metal Substrates:
 - 1. Epoxy over Epoxy Primer System: Low contact/low traffic areas such as, but not limited to structural steel, overhead decking, pipes, ducts, etc.
 - a. Benjamin Moore & Company:
 - 1) Prime Coat: Corotech Polyamide Epoxy Primer V150.
 - 2) Intermediate Coat: Epoxy, matching topcoat.
 - 3) Topcoat - Semi-gloss: Corotech Polyamide Epoxy V400.
 - b. PPG Paints:
 - 1) Prime Coat: Amerlock 2 VOC Epoxy
 - 2) Intermediate Coat: Amerlock 2 VOC Epoxy
 - 3) Topcoat - Gloss: Amerlock 2 VOC Epoxy
 - c. International Paint LLC:
 - 1) Prime Coat: Devran 203.
 - 2) Intermediate Coat: Devran 224V.
 - 3) Topcoat: Devran 224V.

- d. Tnemec Company, Inc.:
 - 1) Prime Coat: Series 27 W.B. Typoxy.
 - 2) Intermediate Coat: Series 27 W.B. Typoxy.
 - 3) Topcoat - Semi-Gloss: Series 287 Enviro-Pox.
- 2. Pigmented Polyurethane over Epoxy Primer System: High contact/high traffic areas such as, but not limited to doors, frames, pipes, etc.
 - a. Benjamin Moore & Company:
 - 1) Prime Coat: Corotech Organic Zinc Rich Primer V170.
 - 2) Intermediate Coat: Corotech Polyamide Epoxy Primer V150.
 - 3) Topcoat - Semi-gloss: Corotech Aliphatic Acrylic Urethane Coating Semi-Gloss V510.
 - b. International Paint LLC:
 - 1) Prime Coat: Devran 203.
 - 2) Intermediate Coat: Devran 203.
 - 3) Topcoat - Semi-Gloss: Devthane378 Series.
 - c. PPG Architectural Coatings, PPG Paints:
 - 1) Prime Coat: Amerlock 2 VOC Epoxy
 - 2) Intermediate Coat: Amerlock 2 VOC Epoxy
 - 3) Topcoat - Gloss: Amershield VOC Acrylic Polyurethane
 - d. Sherwin-Williams Company:
 - 1) Prime Coat: DTM Wash Primer B71Y1.
 - 2) Intermediate Coat: S-W Acrolon Waterbased Acrolon 100 WB Urethane.
 - 3) Topcoat - Gloss: Acrolon Waterbased Acrolon 100 WB Urethane.
 - e. Tnemec Company, Inc.:
 - 1) Prime Coat: Series 27 W.B. Typoxy.
 - 2) Intermediate Coat: Series 27 W.B. Typoxy.
 - 3) Topcoat - Semi-Gloss: Series 1081 Endura-Shield.
- E. Gypsum Board Substrates:
 - 1. Epoxy-Modified Latex System:
 - a. Benjamin Moore & Company:
 - 1) Prime Coat: Insl-X Aqua Lock Plus AQ-0400.
 - 2) Intermediate Coat: Pre-Catalyzed Waterborne Wall Epoxy Semi-Gloss V341.
 - 3) Topcoat Pre-Catalyzed Waterborne Wall Epoxy Semi-Gloss V341.
 - b. International Paint LLC:
 - 1) Prime Coat: Tru-Glaze WB 4030.
 - 2) Intermediate Coat: Match topcoat.
 - 3) Topcoat - Semi-Gloss: Tru-Glaze 4426.
 - c. PPG Paints:
 - 1) Prime Coat: SPEEDHIDE Zero 6-4900XI Interior Latex Sealer Quick-Drying.
 - 2) Intermediate Coat: Epoxy-modified latex, matching topcoat.
 - 3) Topcoat - Semi-Gloss: Pitt Glaze WB 16-510 Series Pre-catalyzed Water Based Acrylic Epoxy.
 - d. Sherwin-Williams Company:
 - 1) Prime Coat: Pro Mar 200 Zero VOC Interior Latex Primer.
 - 2) Intermediate Coat: Epoxy-modified latex, matching topcoat.

-
- 3) Topcoat - Gloss: Pro Ind. Water Based Catalyzed Epoxy B73-300 Series.
 - e. Tnemec Company, Inc.:
 - 1) Prime Coat: Series 151-1051 Elasto-Grip.
 - 2) Intermediate Coat: Series W.B. Typoxy.
 - 3) Topcoat - Semi-Gloss: Series 287 Tneme-Glaze.
 - 4) Topcoat - Gloss: Series 297 Enviro-Glaze.

END OF SECTION 09 96 00

SECTION 11 30 13 - APPLIANCES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Appliances.
- B. Commercial Grade washer and dryer.

1.2 REFERENCE STANDARDS

- A. UL (DIR) - Online Certifications Directory; Current Edition.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's data indicating dimensions, capacity, and operating features of each piece of residential equipment specified.
- B. LEED Submittals: Comply with Section 01 81 13.
 - 1. Water Efficiency Prerequisite 2: Indoor Water Use Reduction and EA Prerequisite 2: Minimum Energy Performance
 - a. Commercial clothes washers: ENERGY Star
 - 1) Water usage in gallons per pound.
- C. Copies of Warranties: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.4 QUALITY ASSURANCE

- A. Electric Appliances: Listed and labeled by UL (DIR) and complying with NEMA Standards (National Electrical Manufacturers Association).

1.5 WARRANTY

- A. Provide five (5) year manufacturer warranty on refrigeration system of refrigerators.
- B. Provide ten (10) year manufacturer warranty on magnetron tube of microwave ovens.
- C. Provide ten (10) year manufacturer warranty on tub and door liner of dishwashers.
- D. Washer Extractor Parts Only, Mainframe, Cylinder Shaft Assembly, and Bearings Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace main frame, bearing, cylinder or cylinder shaft assembly that fails within specified warranty period.
 - 1. Warranty Period: Five years from date of Substantial Completion.
- E. Dryer Tumbler Parts Only: Manufacturer's standard form in which manufacturer agrees to repair or replace any part of the equipment assembly that fails within specified warranty period.
 - 1. Warranty Period: Three years from date of Substantial Completion.
- F. Automatic Drying Cabinets Parts Only: Manufacturer's standard form in which manufacturer agrees to repair or replace any part of the equipment assembly that fails within specified warranty period.
 - 1. Warranty Period: Three years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 APPLIANCES

A. The design for each appliance is based on products indicated on the Drawings.

1. Include long vent options for stack washer-dryers.

B. Manufacturers - Appliances:

1. General Electric.
2. Hotpoint Appliances.
3. Whirlpool.

~~C. Manufacturers - Commercial Grade Washer-Extractors and Tumblers:~~

- ~~1. Maytag Commercial Laundry.~~
- ~~2. Belco.~~
- ~~3. Continental Girbau Inc.~~
- ~~4. UniMac Alliance Laundry Systems.~~
- ~~5. Speed Queen.~~
- ~~6. Wascomat.~~

2.2 COMMERCIAL GRADE WASHER-EXTRACTORS AND TUMBLERS

~~A. Manufacturers - Commercial Grade Washer-Extractors and Tumblers:~~

- ~~1. Maytag Commercial Laundry.~~
- ~~2. Belco.~~
- ~~3. Continental Girbau Inc.~~
- ~~4. UniMac Alliance Laundry Systems.~~
- ~~5. Speed Queen.~~
- ~~6. Wascomat.~~

~~A. Commercial clothes washers: ENERGY Star labeled.~~

~~1. Water Usage: Maximum 1.8 gallons per pound.~~

B. Washer-extractor to be ETL approved safety tested for school use; dryer-tumbler to meet CSA and CE standards safety tested for school use.

~~C. Features - Washer-Extractor: 3.1 cu. ft. capacity 27-inch Product MHN33PRCWW by Maytag Commercial Laundry (Basis-of-Design); refer to schedule on Drawings.~~

- ~~1. High grade stainless steel inner and outer drums, top and front panels.~~
- ~~2. Washer-extractor must be maintenance free.~~
- ~~3. Capable of passing through standard doorway.~~

~~D. Features - Dryer-Tumbler: 50-pound capacity CSA Gas Model by Belco (Basis-of-Design); refer to schedule on Drawings.~~

- ~~1. All automatic controls.~~
- ~~2. Electrostatically painted inside and out and oven baked before assemble; dryer to have an aluminized steel oven and base.~~
- ~~3. BTU's per hour: 120,000.~~
- ~~4. Capable of passing through standard doorway.~~

~~E.C. Washer-extractor must not be a regular commercial type; super high speed extractors will damage and pull athletic fabrics.~~

~~F. Warranty Period: 5 years for washer-extractor; 2 years for dryer.~~

~~D. Basis-of-Design: UniMac; Model No. UWT085V4:~~

- ~~1. Frame: Heavy-duty structural plate steel frame.~~

2. Construction: Cabinet front, top, sides and inner and outer tubs, 304 grade stainless steel.
 3. Control System: UniLinc Touch.
 - a. Programmable microprocessor; (Control Interface, Wi-Fi, Infrared or USB (PC)).
 - b. 99 programmable cycles.
 - c. 30 programmable water levels, plus overflow.
 - d. Graphic display with words and icons.
 - e. Automatic maintenance reminders by day, week and month.
 - f. Wi-Fi and PC software with management reports.
 - g. Internet connectivity for off-site diagnostic capabilities and remote programming capabilities.
 - h. Real-time clock allows time and date stamp to 100+ items.
 - i. Cycle counter.
 - j. Displays a count up timer after the end of cycle.
 - k. Temperature controlled fill and thermal cool down.
 - l. Water Monitoring: Fill value, slow drain and automatic leak detection system.
 - m. Diagnostic capabilities
 4. Chemical Supply System: Automatic flushing and connections for 5 external supply lines and control signals for 8 external supplies.
 - a. UWT V30V adds 5 cup manual fill soap box option for dry chemical dispensing. Also deletes external supply signals and external connections.
 5. Cylinder Drive: Programmable inverter drive.
 6. Rapid jet-spray rinse system.
 7. Drain Valve: Automatically opens in event of power failure.
 8. Dry Weight Capacity: 85 lb (38.6 kg).
 9. Wash Cylinder Volume: 13 cu. ft. (368119 cu cm) minimum.
 10. Number of Speeds: 9.
 11. Number and Size of Water Inlet Connections: All 3/4 in (19 mm) NH male connectors.
 12. Number and Size of Drain Outlets: 2 at 3 in (76 mm).
 13. Drive Motor: 7.5 hp (5.6 kW).
 14. G Force: 300.
 15. Electrical Requirements: Coordinate with Electrical.
- E. Basis-of-Design: UniMac; Dryer Tumbler Model No. UT075EVN:
1. Construction: Heavy duty embossed steel with electrostatically applied baked enamel finish.
 2. Door: High grade stainless steel door with 7/8 inch (22 mm) rubber gasket and heavy duty hinge.
 3. Control System: Microprocessor touchpad control;
 - a. Programming methods: Machine keypad, Infrared (PC or PDA)
 - b. 48-Cycle Capability with graphic display of words and icons
 - c. PC software to program machine and/or audit machine performance with quick view performance reports
 - d. Record start, stop and idle time by date and time
 - e. Record last eight machine errors by date and time
 - f. Record machine service history
 - g. Internet connectivity for off-site diagnostic capabilities
 - h. Automatic maintenance reminders by day, week and month
 - i. Over Dry Prevention Technology (OPTidry™) System utilizes one cylinder lifter as sensor.
 4. Lint Filter: Self cleaning, depositing lint to large storage area at bottom of tumbler.
 5. Over-dry Prevention: OPTidry technology.
 6. Reversing Operation: Required.
 7. Capacity: 75 lb (34 kg).

- 8. Lint Filter: 576 sq. in (3716 sq. cm).
- 9. Heat Source: Electric 30 Kw with 3/4 hp motor.
- 10. Exhaust Size: 8 in (254 mm).
- 11. Electrical Requirements: Coordinate with ELECTRICAL.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify utility rough-ins are provided and correctly located.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Anchor built-in equipment in place.

3.3 ADJUSTING

- A. Adjust equipment to provide efficient operation.

3.4 CLEANING

- A. Remove packing materials from equipment and properly discard.
- B. Wash and clean equipment.

END OF SECTION 11 30 13

SECTION 11 66 23 - GYMNASIUM EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following gymnasium equipment:
 - 1. Basketball equipment.
 - 2. Safety wall padding.
 - 3. Indoor volleyball system.
 - 4. Climbing wall system.
 - 5. Floor sleeves.
 - 6. Archery netting.
 - 7. Batting cage.
 - 8. Chinning bar.
 - 9. Mat hoist.
- B. Products furnished, but not installed under this Section, include floor insert sleeves for inserts to be cast in concrete subfloors and footings.
- C. Hook and loop mat hangers and coordinating wall padding specified in Division 10 Section "Miscellaneous Specialties."

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, features, and finishes. Include details of anchors, hardware, and fastenings. If applicable, include assembly, disassembly, and storage instructions.
 - 1. Gymnasium Equipment Operators: Include operating instructions.
 - 2. Motors: Show nameplate data, ratings, characteristics, and mounting arrangements.
- B. Shop Drawings: Show location and extent of fully assembled gymnasium equipment. Show location and extent of disassembled equipment and components and transport and storage accessories. Include elevations, sections, and details not shown in Product Data. Show method of field assembly, connections, installation details, mountings, floor inserts, attachments to other Work, operational clearances, and relationship to adjoining work.
 - 1. Blocking and Reinforcement: Show locations of blocking and reinforcement required for support of gymnasium equipment.
 - 2. Setting Drawings: For cast-in floor insert sleeves for post standards.
 - 3. Design Calculations: Calculate requirements for supporting gymnasium equipment. Verify capacity of members and connections to support loads and verify loads, point reactions, and locations for attachment of gymnasium equipment to structure with those indicated on Drawings.
 - 4. Gymnasium Equipment Operators: Show locations and details for installing operator components, switches, and controls. Indicate motor size, electrical characteristics, drive arrangement, mounting, and grounding provisions.
 - 5. Wiring Diagrams: Power, signal, and control wiring.
- C. Coordination Drawings: Court layout plans and elevations drawn to scale and coordinating, floor-insert penetrations and game lines and markers applied to finished flooring.
- D. LEED Submittals: Comply with Section 01 81 13.
 - 1. EQ Credit 2: Low-Emitting Materials
 - a. Composite Wood: Certificate stating compliance with CARB or NAF standard.
- E. Samples: For the following products:

1. Pad Fabric: Not less than 3 inches square, with specified treatments applied. Mark face of material.
 2. Divider Curtain Fabric: Not less than 12 inches square of open mesh and of opaque fabric.
- F. Product Certificates: For each type of gymnasium equipment, signed by product manufacturer.
- G. Maintenance Data: For gymnasium equipment and gymnasium equipment operator to include in maintenance manuals.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer employing workers trained and approved by manufacturer.
- B. Source Limitations: Obtain each type of gymnasium equipment through one source from a single manufacturer.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.4 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install gymnasium equipment until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Verify position and elevation of floor inserts and layout for gymnasium equipment. Verify dimensions by field measurements.

1.5 COORDINATION

- A. Coordinate installation of floor inserts with structural floors and finish flooring installation and with court layout and game lines and markers on finish flooring.
- B. Coordinate layout and installation of overhead-supported gymnasium equipment and suspension system components with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression-system components, and partition assemblies.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Performance Sports Systems, Inc.
 2. Draper.
 3. Porter Athletic Equipment Co.
 4. Everlast Climbing Industries, Inc. (For Climbing Wall System).

2.2 MATERIALS, GENERAL

- A. Steel: Comply with the following:
1. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M, hot-dip galvanized.
 2. Steel Pipe: Standard-weight steel pipe complying with ASTM A 53.
 3. Cold-Formed Steel Tubing: ASTM A 500, Grade A, unless another grade is required by structural loads.
 4. Steel Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A 513 or steel tubing fabricated from steel complying with ASTM A 569/A 569M and complying with the dimensional tolerances in ASTM A 500.

5. Malleable-Iron Castings: ASTM A 47, grade required by structural loads.
 6. Support Cable: 1/4-inch-diameter, 7x19 galvanized steel aircraft cable with a breaking strength of 7000 lb. Provide fittings complying with cable manufacturer's written recommendations for size, number, and method of installation.
 7. Support Chain: Proof coil chain, complying with ASTM A 413/A 413M, Grade 30, size and diameter as required by structural loads; plated or painted. Provide fittings complying with chain manufacturer's written recommendations for size, number, and method of installation.
- B. Wood-Based, Structural-Use Panels: Comply with DOC PS 2; for plywood, comply with DOC PS 1, containing no added urea formaldehyde resins.
1. Composite wood: Comply with low-emitting requirements of CARB, NAF or applicable standard in Section 01 81 13.33.
- C. Anchors, Fasteners, Fittings and Hardware: Manufacturer's standard corrosion-resistant or noncorrodible units; concealed tamperproof, vandal and theft resistant. Provide as required for gymnasium equipment assembly, mounting, and secure attachment.
- D. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107 with minimum strength recommended in writing by gymnasium equipment manufacturer.

2.3 EQUIPMENT

- A. Basketball Backstops and Goals: Provide the following or an approved substitute comparable product of other named manufacturers:
1. Performance Sports ~~#3103~~ #3107 Clear-Vu backstop, ceiling suspended, front-braced forward folding with #1140 height adjuster.
 2. Performance Sports ~~#1192~~ #1194 3/4 hp electric winch operated by Performance Sports #TSC1500 electronic control panel & remote keypad.
 3. Performance Sports #1100 Saf-strap.
 4. Performance Sports #1110 Saf-strap & hoist cable retractor reel.
 5. Performance Sports #AFRG42; 42- x 72-inch aluminum framed glass backboard, including border and target makings.
 6. Performance Sports ~~#807~~ Collegiate 2000+ breakaway goal.
 7. Performance Sports #PMCE backboard padding; bolt on.
- B. Safety Wall Padding: Provide the following or an approved substitute:
1. Performance Sports #4100.
 2. Construct panels of 6 pound density bonded urethane foam filler cemented to 7/16 inch OSB backing board and covered with 14 ounce vinyl laminated material which shall be mildew and rot-resistant, and fortified with an infection combating fungicide and shall be stapled securely to back of plywood; cover material tear strength of 100 psi.
 - a. No added urea formaldehyde for plywood and laminating adhesive.
 3. 2 colors will be chosen from standard line of colors.
 4. Refer to Drawings for typical and special sizes and locations; concealed Z-clip mounting when not otherwise indicated.
 - a. Removable wall pads indicated for over mirrors in Auxiliary Gym to me minimum 7'-6" high and held to wall with Velcro attachment; floor to provide additional support.
 5. Provide length of wall padding as indicated on the drawings.
 6. Cutouts in panels to be made in field to fit job conditions; trimmed as directed by manufacturer.
 7. Corner and Column Pads: Factory fabricated for conditions indicated; standard construction of manufacturer with vinyl cover to match wall padding.

- C. Indoor Volleyball System: ~~Model PVB-1500 Economical~~ 3-1/2-inch diameter adjustable height volleyball system manufactured by ~~Jaypro Sports, Inc., or an approved substitute~~ a named manufacturer within this section, fully assembled, and including the following:
1. ~~4~~ 2-winch upright
 2. ~~3~~ 2-anchor upright
 3. ~~3~~ 2- competition volleyball net nets with boundary markers/net antenna, and all necessary cords and accessories
 4. ~~3~~ custom length volleyball nets with boundary markers/net antenna, and all necessary cords and accessories.
 - 4-5. ~~7~~ upright ~~2~~ pair of pads to protect pole from floor to bottom of net
 - 5-6. ~~Carrying bags for all equipment.~~
 7. ~~2~~ storage carts.
- D. Climbing Wall System: Provide climbing wall system consisting of eight panels, 10-ft high by 4 ft wide, for an overall length of 40 ft., complying with the following:
1. Product: Traverse Wall System, with Mats and Mat Locking system; by Everlast Climbing Industries, Inc.
 2. Coating: Textured paint to provide a granite look and feel.
 3. Hand Holds: Provide in red, yellow and green colors, with each labeled with a letter, number and arrow to delineate difficulty and routes. Provide no less than 20 per 10 ft by 4 ft panel.
 4. Provide nuts, two per sq ft, to offer a wide variety of route setting options.
 5. Mats: 2-inch gymnastic mats, constructed with 2-inch cross-linked polyethylene foam and covered with 18-oz vinyl polyester reinforcing; fire retardant. Foam is to be NFPA 286 compliant.
 6. Mat Locking System: Consisting of specially designed holds to receive mat loops; with security latch system.
- E. Adjustable Chinning Bar:
1. Basis-of-Design: Model No. 109 by Performance Sports Systems, or equal by other named manufacturers.
 2. Bar shall be designed to provide 24 inches of adjustment in six (6) inch increments. Unit shall consist of a bar weldment and two (2) heavy, formed channels with wall mounting plates on both ends and one at the center point.
 3. The bar weldment shall consist of a 1" diameter solid bar 3'-6" in length, with formed braces to support the bar 1'-5" from the wall. The ends of the formed braces shall be designed to lock into holes on the wall mounted support channels to provide the adjustment capability. The lower ends of the formed brace supports shall be fitted with spring-loaded latch mechanisms to secure unit in place and provide quick and easy height adjustments. Bar may also be completely removed from the wall for storage when required. Hardware shall be provided to attach vertical channel assemblies to the wall.
 4. Finish of entire unit to be pit and peel resistant durable, grey powder coat.
- F. Floor Sleeves for Pipe Standards:
1. Floor Sleeves with Chrome Covers: Senoh Floor Plate and Sleeve KA25 (for Volleyball). Provide coverplates from Senoh to coordinate with floor plates. Provide specified sleeves or equivalent sleeves by stand manufacturer.
 2. Cover plate consists of molded plastic recessed mounting flange, cork gasket and a 5-inch diameter chrome plated cover.
 3. Cover shall be equipped with a swivel type retainer pin to prevent theft.
 4. Special key shall be provided for cover removal.
 5. Sleeve shall be 3-3/4 inch O.D. heavy wall steel tubing extending 9 inches into concrete footing.
 6. Bottom of sleeve to be capped with a 4-inch square anchor plate.

2.4 MOTORIZED ARCHERY NET

- A. Indoor Archery Net System: #4020 Fold-Up Divider Curtain assembly, by Performance Sports Systems, to be used to facilitate lifting an #51404 heavy duty archery net as manufactured by Carron Netting Company.
 - 1. Suspension from roof support member shall be accomplished using clamp type malleable fittings furnished by manufacturer. Hoist lines shall be 1/8" diameter steel aircraft cable (1800 lbs. breaking strength) and spaced approximately 10' on center. On one end, each line shall be attached to top batten pipe and at the other end, each hoisting line shall attach to drive pipe. Drive pipe shall rotate in drive pipe support assembly located approximately 10' on center. Hoisting shall not rely on single cable support of archery net when in stored position.
 - 2. Archery net will be tied off to the top batten of the #4020 fold-up curtain by means of bungie cords when raised for storage.
 - 3. Curtain hoist shall be equipped with 3/4 horsepower, 115 volt, 60 hertz single phase instant reversing motor; Performance Sports #4002. Design shall lock and hold curtain in any position in event of power failure. Hoist shall be pre-wired and come complete with twist-lock plug and receptacle.
 - 4. Operated by Performance Sports #TSC1500 electronic control panel and remote keypad.
 - 5. Include a #1108 curtain lock for the drive shaft.
- B. Height: 10'-0.

2.5 BATTING CAGE

- A. Basis-of-Design: Model 4080-70 Multi-Sport Cage with dual lift points by Performance Sports Systems.
- B. Netting:
 - 1. Cage net to me Model 4087, 12'-0" high x 12'-0" wide by 70' long. An additional 12" of net shall drape on the floor preventing balls from going under the cage.
 - 2. Net to be constructed with black knotted polyethylene with 1-1/8" square mesh and capable of stopping a baseball, softball and golf ball. Entrance shall be through an overlapping net opening on each end.
- C. Drive and Support Structure:
 - 1. Cage to be operated by an electric curtain hoist. Hoist to be driven by an instant reversing, electric gear-motor that is controlled with a key switch and integral limit switches.
 - 2. Curtain hoist to drive a continuous 2-3/8" O.D. drive shaft. The cage shall be lifted by means of 1/8" galvanized aircraft cable rated at 2000 lbs breaking strength. Lift cables shall be spaced at no greater than 12'-0" center to center.
 - 3. The drive shaft to be supported by a carrier assembly spaced no greater than 12'-0" center to center. The carrier to consist of a formed bracket with two rubber wheels on which the drive shall rotate.
 - 4. Cage support frame to be constructed of 1.9" O.D. steel tubing. Support frame to be furnished with standard black powder coat finish. The support frame may be lowered to the floor while placing the four sides of netting on top of the frame to allow for compact storage.
 - 5. Operated by Performance Sports #TSC1500 electronic control panel and remote keypad.

2.6 MAT HOIST

- A. Basis-of-Design: #4090-DS Wrestling Mat Storage System by Performance Sports Systems; refer to Drawings for sling configuration.
- B. This is supported from the roof structure by support steel provided by the structural contractor. The supplied beam must be level. The minimum length of supplied beam is to be 20' clear of obstructions.

- C. Drive and spools are attached to an I-beam frame weldment for rigid support. A one piece 2" solid keyed drive shaft runs on four self-aligning machined ball bearing pillow blocks. Unit includes three 4" diameter cable drums to prolong cable life. Lifting rate shall be 13.6 fpm. Finish shall be black power coat.
- D. The mat storage system shall be operated by a 2 horsepower, 3ph reversible motor available for connection to 208 VAC power. Unit includes a 48 to 1 industrial in-line helical gear speed reducer and a 20-ft./lbs. electric brake. Motor controls include motor reversing contactors and motor overload protection. Fused disconnect is to be provided by others. An audible alarm shall sound when unit is operating. A key switch and 2x4" switch cover is included. Key switch must be located in an area that allow the hoist to be visible to the operator, but clear of the mat load. Limit switches shall control the up and the down travel and a second up limit switch shall be included for extra safety.
- E. A 40' long, welded 2" x 6" rectangular load bar is raised by three 5/16" galvanized carbon steel aircraft grade cables. Cables shall have a ultimate load rating of 9800 lbs each. Load bar shall be equipped with steel hooks to accommodate "D" rings on sling straps.
- F. Mat sling shall be constructed of 19-ounce vinyl with twelve 2" wide nylon straps that wrap all the way around the sling. Nylon straps to have 7000# breaking strength and "D" rings and self closing hooks at end of strap. Vinyl color selected by Architect from manufacturers standard available colors.
- G. Include #1109 Safety Strap Package.

2.7 GROUP CONTROL SYSTEM

- A. A group control system for motorized equipment will be provided as indicated within this section and Section 11 66 53, Gymnasium Dividers.
- B. Quantity: 2; one keypad location in the High School Gymnasium and one keypad location in the Middle School Gymnasium.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for play court layout, alignment of mounting substrates, installation tolerances, operational clearances, accurate locations of connections to building electrical system, and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. General: Comply with manufacturer's written installation instructions. Complete equipment field assembly, where required.
- B. Unless otherwise indicated, install gymnasium equipment after other finishing operations, including painting, have been completed.
- C. Permanently Placed Gymnasium Equipment and Components: Rigid, level, plumb, square, and true; anchored securely to supporting structure; positioned at locations and elevations indicated on Shop Drawings; in proper relation to adjacent construction; and aligned with court layout.
 - 1. Floor Insert Location: Coordinate location with application of game lines and markers. Coordinate installed heights of floor insert with installation of finish flooring and type of floor plate.
 - 2. Operating Gymnasium Equipment: Verify clearances for movable components of gymnasium equipment throughout entire range of operation and for access to operating components.

- D. Floor Insert Setting: Grout sleeve for post standards in oversized, recessed voids in concrete slabs. Clean holes of debris. Position sleeve and fill void around sleeves with grout, mixed and placed to comply with grout manufacturer's written instructions. Protect portion of sleeve above subfloor from splatter. Verify that sleeves are set plumb, aligned, and at correct height and spacing; hold in position during placement and finishing operations until grout is sufficiently cured. Set insert so top surface of completed unit is flush with finished flooring surface.
- E. Wall and Corner Wall Safety Pads: Mount with bottom edge at 4 inches above finished floor, or as indicated on Drawings.
- F. Anchoring to In-Place Construction: Use anchors and fasteners where necessary for securing built-in and permanently placed gymnasium equipment to structural support and for properly transferring load to in-place construction.
- G. Portable Gymnasium Equipment and Components: Assemble in place to verify that equipment and components are complete and in proper working order. Instruct Owner's designated personnel in properly handling, assembling, adjusting, disassembling, transporting, storing, and maintaining units. Disassemble portable gymnasium equipment after assembled configuration has been approved by Architect, and store units in location indicated on Drawings.

3.3 ADJUSTING

- A. Adjust movable components of gymnasium equipment to operate safely, smoothly, easily, and quietly, free from binding, warp, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Lubricate hardware and moving parts.

3.4 CLEANING AND PROTECTION

- A. After completing gymnasium equipment installation, inspect components. Remove spots, dirt, and debris and touch up damaged shop-applied finishes according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions acceptable to manufacturer and Installer that ensure gymnasium equipment is without damage or deterioration at time of Substantial Completion. Replace gymnasium equipment and finishes that cannot be cleaned and repaired, in a manner approved by Architect, before time of Substantial Completion.

3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain gymnasium equipment. Refer to Division 1 Section "Closeout Procedures."

END OF SECTION 11 66 23

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 26 55 61 – THEATER LIGHTING SYSTEMS

PART 1 - GENERAL

1.1 REFERENCE TO OWNER'S GENERAL CONDITIONS

- A. The Owner's / Project General Conditions shall be considered part of this Specification. Unless this Section contains statements, which are more definitive or more restrictive than those contained in the Owner's General Conditions, this Specification shall not be interpreted as waiving or overruling any requirements expressed in the General Conditions documentation

1.2 SUMMARY

- A. Statement of Work: the work of this section includes, but is not necessarily limited to the following:
 - a. Provide and install complete and operational Theater Lighting System(s) as outlined in these specifications and related drawings and documentation requirements as set forth in this documentation.
- 2. Equipment and systems shall be installed at the North East Middle / High School located in 300 Irishtown Road, North East, MD
- 3. It is the responsibility of the Contractor to provide all wiring, plates, connections, equipment, rigging, all support means and miscellaneous equipment for complete and fully operational System(s) if specified in this or other related documents or not.
- 4. Included Spaces:
 - a. Auditorium
 - b. Stage
 - c. Balcony
 - d. Catwalk
 - e. Vestibule
 - f. Control Booth
 - g. Mechanical
- B. Provide for the coordination, provision, installation, inspection, testing, instruction, and warranties of the Theater Lighting System(s).
- C. Provide all materials, equipment, transportation, and necessary labor for a complete and operational Theater Lighting System(s).
- D. Additional contractor requirements:
 - 1. Required licenses, permits and low voltage permits including any required bonding or insurance requirements to comply with general conditions of specifications and contract documentation.
 - 2. Verification of the dimensions and conditions at the job site.
 - 3. Installation in accordance with the contract documentation, applicable installation procedures or codes as set forth by the state or county of the project or manufacturers' recommendations.
 - 4. Submittal information and provisions.
 - 5. Instruction of operating personnel.
 - 6. Manuals and provisions thereof.
 - 7. Maintenance and warranties.

1.3 RELATED DOCUMENTS

- A. General: Comply with all Contract Documents.
- B. Related specification sections:
 - 1. Section 11 61 33 Rigging Systems and Controls

2. Section 27 41 13 Projection Screens

1.4 RELATED WORK

- A. The Contractor shall coordinate with Electrical Contractor on raceway / junction box locations for equipment and routing of cables / raceway from equipment, terminal and pull boxes to system equipment racks and or wall fields.
- B. Conduits:
 - 1. It is the Contractors responsibility to review all conduit runs, junction boxes, and electrical outlet cable trays provided and installed under Division 26 and provide fit-up and coordination drawings as required for proper communication and understanding between trades.
 - 2. Provide a written acceptance of all field conditions or a list of any discrepancies within ten (10) working days from Notice to Proceed.

1.5 DEFINITIONS:

- A. Regardless of their usage in codes or other industry standards, certain words or phrases as used in the Drawings or Specifications for the Work, shall be understood to have the specific meanings as ascribed to them in the following list:
 - 1. The term "Contractor" – Integrator who has been awarded the contract to perform the work under this section.
 - 2. The terms "shall" is mandatory, "will" is informative, and "should" is advisory.
 - 3. "Provide" – To supply, install, connect, and configure, for safe intended normal operation.
 - 4. The terms "Indicated", "shown", or "noted" – As indicated on drawings or specifications.
 - 5. The terms "Equivalent", "similar", or "equal" – equal in materials, size, color, design, and efficiency of specified product, conforming to base bid manufacturer selections.
 - 6. The terms "Reviewed", "satisfactory", "accepted", "approved", "directed" – As reviewed, satisfactory, accepted, approved, or directed by the Owner or Owner's Representative.
 - 7. The term "Professional grade" – Equipment that is intended for commercial use, not residential, use and is rated for continuous 24-7 use.
 - 8. The term "User-friendly controls" – Touch screen graphical user interface (GUI) or other graphical controls that are intuitively configured for ease of use in a logical, easily recognizable, configuration that utilizes industry standard symbols wherever applicable.
 - 9. The term "Labels" – refer to labels on cables and equipment as outlined in Section 3.2.
 - 10. The term "OFE" refers to items that are Owner Furnished Equipment
 - 11. The term "OFCI" refers to items that are Owner Furnished Contractor Installed Equipment

1.6 REFERENCE STANDARDS, REFERENCE MATERIALS AND/OR CODES

- A. Applicable Codes and Standards:
 - 1. Systems shall be installed in accordance with the latest applicable revisions pertaining to all applicable national, state, and local codes and standards including, but not limited to the following:
 - a. International Building Code / BOCA National Building Code
 - b. Local Governing Authorities Having Jurisdiction
 - c. NFPA-72 National Fire Alarm and Signaling Code
 - d. NFPA-70 National Electric Code (NEC)
 - e. UL Listed- Underwriter's Laboratories Listed

1.7 SCOPE OF WORK REQUIREMENTS

- A. The Contractor shall provide a fully operational Theater Lighting System(s).

- B. The Contractor shall provide equipment that, where required, shall conform to the applicable requirements of the Underwriters Laboratories, Inc., local codes, the National Electrical Code and any other governing codes. Such items shall bear a label or mark indicating their conformance to the above requirements.
- C. The Contractor shall provide complete and operational system(s) configured and installed for user-friendly operation and low maintenance.
 - 1. Provide for reprogramming of the remote control software two (2) times, as directed by the Owner's Representative and or Consultant.
 - 2. Provide for two (2) adjustments of the Theater Lighting System(s), as directed by the Owner's Representative and or Consultant.
- D. On-site factory technical support shall be provided, if necessary, to assure optimized configuration and performance of installed equipment and systems.
- E. The Contractor shall restore all finish hardware to original condition including painting, ceiling modifications, and attachments as specified in Division 09 Finishes. All finishes shall be approved by the Architect and or Owner's Representative.
- F. Installation work shall be in compliance with all Contract Documents, all applicable standards, governing codes, regulations and authorities having jurisdiction.
- G. The Contractor shall validate exact location and installation of the equipment, power, conduit, and raceway systems and coordinate exact location and installation of the equipment, power, conduit, and raceway systems with the Architect and or Owner's Representative.
- H. All finalized software affiliated with the equipment is the property of the Owner and will be provided on labeled CDs or electronic media for archival purposes at project acceptance.
- I. The Contractor shall supply all control software, programming service codes, programming notes, files interactive source codes, all media and associated software, touch panel design, all passwords, licenses, dangles and "keys" or other associated control or programming items at no additional cost to the Owner at commissioning.

1.8 SYSTEM(S) DESCRIPTION AND REQUIREMENTS

- A. The following is a basic system(s) description and is not intended to be all-inclusive for proper installation or operation of system(s). The Theater Lighting specification and the Theater Lighting Bid Set drawings need to be fully reviewed together to ensure design intent and listing of design intent equipment is completely understood.
 - 1. The Bid proposal will include all labor and cabling for all optional / add alternate equipment listed in Theater Lighting specification and Theater Lighting Bid set drawings. Please list as separate budgetary items.
- B. The system shall be designed for the control of architectural and theatrical lighting and shall consist of factory pre-wired dimming and processing rack enclosures containing dimmers, power supplies, breakers, terminals and/or control electronics.
 - 1. **48 Dimmable circuits and 16 non-dimmable circuits shall be distributed throughout the auditorium and associated areas, including the stage and balcony.**
 - 2. The theatrical lighting system shall have full control of the house lighting system. The house lighting system shall be provided by the electrical contractor.
 - 3. All programing of the control system including the control of the house lighting system shall be provided by the theatrical lighting contractor.
 - 4. House lighting provided by the electrical contractor to have individual DMX connections at each fixture with loop through.
 - 5. The theatrical lighting contractor shall provide DMX connectivity to each house fixture.
- C. System shall work in conjunction with specified low-voltage control stations.

1. Contractor shall provide a ~~CAT5e~~**CAT-6** control system based on a LAN control approach with DNODE and LAN patching capability. Refer to TE drawings for further details.
- D. Work in conjunction with existing lighting fixtures.
 1. All theatrical lighting fixtures shall be cleaned, re-lamped and cabled with industry standard pin connectors. All refurbished fixtures shall have a safety cable and be replaced onto the new lighting pipes and connected to provide a general stage lighting configuration.
- 1.9 DELIVERY, STORAGE, AND HANDLING
 - A. The Contractor shall carefully control handling and installation of all items which are not replaceable, so that completion of the work will not be delayed by hardware or equipment losses before, during, and after installation. The Contractor is responsible for all items until Final Acceptance.
 - B. The Contractor shall, prior to installation, protect exposed surfaces with material which is easily removed without marring finishes.
 - C. The Contractor shall, without cost to the Owner/Consultant, replace any products damaged during storage, handling or during installation
- 1.10 SCHEDULING
 - A. The Contractor shall submit a schedule to the Owner/Consultant for approval within 10 (ten) working days from notice to proceed. The schedule shall show sequence of work, etc. from time of Notice to Proceed to final sign off. This schedule shall be submitted in Microsoft Project (or similar program) in both paper and electronic format, with submittals.
 - B. It is the responsibility of the Contractor to coordinate the installation of the system(s) to be compatible with the work of the other trades. The Contractor shall attend progress meetings and provide continuous on-site project management.
 - C. It is the responsibility of the Contractor to arrange with the Owner/Consultant a mutually acceptable time and date(s) for Acceptance Testing, based upon project dates and schedule provided, based upon the dates provided in the Solicitation.
 - D. The Contractor shall provide operating personnel with extensive training for each system type and/or room type as outlined in Section 1.8 SYSTEM(S) DESCRIPTION AND REQUIREMENTS.
- 1.11 PROJECT SCHEDULE
 - A. A (mandatory) pre-bid site visit on, (DATE T.B.D.) may be utilized to allow the Contractor to review the current jobsite conditions and define special requirements.
 - B. All Requests for Information (RFI) shall be directed to the Consultant and should be received by Close of Business (COB) on (DATE T.B.D.).
 - C. All bids must be received at the Warrenton office of Polysonics to the attention of the Consultant. All bid proposals (electronic copy) are due to Polysonics no later than (DATE T.B.D.).
 - D. Hard copies of the bid proposals will be provided
 1. Please submit three hard copies.
 - E. The opening of the bid proposals will be held between Polysonics and the Owner's Representative, with no bidders present
- 1.12 BID/TECHNICAL PROPOSALS
 - A. The Contractor shall be experienced in the provision of systems similar in complexity to those required for this project and Contractor shall provide documentation demonstrating the below minimum criteria:

1. The primary business of the Contractor/Installer shall be the installation Theater Lighting systems.
 2. At least three (3) years' experience with the specified equipment and systems.
 3. Experience with at least one project of similar size and complexity as outline in these specifications.
 4. Be an authorized dealer and service facility for the products specified and furnished.
 5. Maintain a technically trained installation crew and service crew for maintenance and installation of the specified system(s).
 6. Final Theater Lighting System(s) configurations shall be approved by the Owner's Representative, Architect and Consultant.
 7. Upon request of the Owner/Consultant, Contractor shall demonstrate that he has:
 - a. Sufficient facilities and equipment for this work.
 - b. Sufficient staff with the appropriate technical expertise and experience for this project.
 8. All Bid proposals shall be valid for ninety (90) days from date received.
 9. Any deviations from specified equipment must be explained in full detail including reasons for any deviations and product comparisons to the originally specified product. Submission of said comparisons does not constitute acceptance of changes and in fact may be declined. If substitutions are rejected/declined, Contractors bid may be rejected for "non-responsiveness" unless a bid has been supplied with "as-specified" equipment.
- B. Provide a list of five (5) references with locations, names of contacts, and contact phone and email information with brief system descriptions and dollar amounts for each reference. References shall be no more than three (3) years old and be of similar size, type, and complexity as the system set forth.
- C. Provide a detailed equipment list in Microsoft Excel format (both hard copy and electronic) showing Item Number, Item Description, Manufacturer, Part Number, Quantity, and Price. This equipment list shall be generated from this document, related project documents and drawings, manufacturer requirements, and RFI responses as applicable.
- 1.13 PRE BUILD AND FINAL SUBMITTALS
- A. Provide the following for approval no later than thirty (30) days after Notice to Proceed and prior to commencement of work:
1. A complete list of all products incorporated within the work with all quantities listed. Each product shall be listed with specification section references in Excel format.
 2. Complete functional diagrams of each system required for a complete and operational system with descriptive narratives of any deviations from the specified system design.
 3. All shop drawings defined as required.
- B. Shop Drawings:
1. Shall not be smaller than 24"x36" and shall be sized as appropriate for thorough understanding of system(s).
 2. Shall be scaled appropriately but not less than 1/8" = 1'.
 3. Shall show detailed schematic wiring diagrams showing interconnection of Contractor-provided components and fabricated products, wiring and cabling diagrams depicting cable types, and device designators. Each component shall have a unique designator and use same designator throughout the project.
 4. Shall show location of all equipment in racks, consoles, or on tables, with complete dimensions, wire routing, and cabling.
 5. Shall show all A.C. power outlet locations, terminal strip, and power locations within each equipment rack including all sequencing as required for proper start-up and shut down.
 6. Detailed set of dimmer schedules.
 7. Shall show plans and sections of the building and adjacent grounds with the location of all installed equipment such as racks, consoles, plates/panels, antennas, (etc.).

8. Shall show patch panel layouts and labeling strips, including color schemes, as necessary.
9. Shall show full fabrication detail of custom enclosures indicating dimensions, material, finish, and openings for equipment.
10. Shall provide complete drawings for all fabricated plates and panels. Drawings shall include dimensional locations of components, component type, engraving information, plate color information, and a complete bill of materials for each plate and sample plates per type.
11. Shall show complete labeling schemes for all cabling and equipment components for project. Include font size and styles along with a sample cable label and equipment label. All labeling shall be consistent within the project scope.
12. Shall show a complete wire schedule showing source and destination and indicating conduit location and sizing. Provide conduit sizing and layout coordination information.

C. Submittal Format: (PDF version)

1. Arrange product data in alphanumeric order by system type and room indicate on cut sheet the options provided.
2. Separate major groupings Use multiple volumes / list of content
3. Index product data sheets by manufacturer and model or part number.
4. Each submittal shall include a unique numbering scheme and be numbered in consecutive order.
5. Reference addendum or change order numbers as applicable.
6. Reference specification section, part, article, paragraph, and/or drawing reference as applicable.
7. Provide via pdf, posted to FTP, thumb drive and or CD / DVD ROM.
8. Each submittal shall include a complete table of contents with the following information:
 - a. Project title and number.
 - b. Submittal number.
 - c. Date of submission.

D. Submittal Format: (Printed Option)

1. Each submittal shall be in three-ring binders no larger than 3" spines and sized for 150% of material enclosed. Use multiple volumes if necessary.
2. Arrange product data in alphanumeric order by system type and room.
3. Separate major groupings with labeled binder tabs.
4. Index product data sheets by manufacturer and model or part number.
5. Each submittal shall include a unique numbering scheme and be numbered in consecutive order.
6. Reference addendum or change order numbers as applicable.
7. Reference specification section, part, article, paragraph, and/or drawing reference as applicable.
8. Each submittal shall include a complete table of contents with the following information:
 - a. Project title and number.
 - b. Submittal number.
 - c. Date of submission.

1.14 PROJECT CONDITIONS

- A. Verify conditions on the job site applicable to this work. Notify Owner's Representative / Consultant in writing of discrepancies, conflicts, or omissions promptly upon discovery.
- B. If conditions exist on the jobsite which make it impossible to install work as shown on the drawings or detailed in the specifications, recommend solutions, and submit drawings showing how the work may be installed as well as an adjusted new schedule to the Consultant and Owner for approval.

1.15 QUALITY ASSURANCE

- A. Provide and maintain an effective Quality Control program and perform sufficient inspections, surveys and tests of all items of work, including those of other trades, to ensure compliance with the contract documents. Furnish appropriate facilities, accurately calibrated instruments and testing devices required to perform the quality control operations and with sufficient work forces to cover the installation operations within the actual installation sequences. Coordinate this work with the quality control requirements of other technical Sections of the Specifications and with requirements of the Contractor and governing authorities having jurisdiction.
- B. Manufacturer Qualifications: All system components shall be furnished by the manufactures of established reputation and experience who shall have produced currently operating Theater Lighting equipment and services. Manufacture shall be able to similar installations rendering satisfactory service.
- C. Bidder Qualifications: The bidder shall furnish in writing to the Owner proof of compliance with the manufacturer's system installation certification program.
 - 1. Hold all legally required state contractor's licenses necessary to accomplish the installation and activation of the described system at the facilities indicated. Contractor shall submit copies of licenses to the Owner prior to the start of work.
 - 2. Have a local office staffed with factory-trained technicians, fully capable of engineering, supervision installation, and system start-up. Providing the Owner training, and servicing hardware and software for systems of similar complexity and function as the system described in this specification.
 - 3. Indicate complete and total compliance with the provisions of this specification by letter, signed by an officer of the corporation, or a principal if other ownership currently exists. This letter shall also clearly identify any exceptions to specification requirements.

1.16 PRE-INSTALLATION MEETING/SCHEDULE

- A. Prior to the start of the work, and at the Owner/Consultant's direction, meet at the project site to review methods and sequence of installation, special details and conditions, standard of workmanship, testing and quality control requirements, job organization and other pertinent topics related to the work. The meeting shall include the Contractor, Contractor's Project Manager, the Owner/Consultant, and the General Contractor. Inspection and testing services (if any) and any other sub-Contractors whose work requires coordination with this work shall be coordinated.

1.17 FINAL INSPECTION AND TESTING / COMMISSIONING

- A. Upon completion of installation and Contractor testing and commissioning (as outlined in Part 3), the Consultant shall perform system(s) inspection and testing (as outlined in Part 3).
- B. To assist the Consultant, the Contractor shall provide a minimum of one person for inspection and two persons for testing who are familiar with all aspects of the specified system(s).
- C. The process of testing the system(s) may necessitate moving and/or adjusting certain components such as fixture aiming, software adjustments, control system adjustments.
- D. Testing will include operation of each system and all components. The Contractor will provide required test equipment, tools, and materials required to perform necessary repairs and/or adjustments.
- E. In the event that adjustments or work is required during testing, or to bring the systems into specification, the Contractor shall continue his work until the system(s) are acceptable with no addition to the contract price. If approval is delayed due to defective equipment, and/or failure of equipment or installation that meets the requirements of this specification, the Contractor shall pay for additional time and expenses to the Owner at the rate specified by the Owner.

- F. All Control Systems shall be fully tested prior to commissioning. Once the Control Programming is finalized all source code, programming, and touch panel software shall be burned on to a CD ROM or thumb drive, and delivered to the Owner. All Control System programming (including source, files, touch panel design) files shall become the property of the Owner.

1.18 WARRANTY

- A. All equipment provided by the Contractor shall be installed per manufacturer's specifications and warranted by the Contractor for a period of one (1) year from the date of written acceptance to meet all performance requirements outlined herein. Warranties shall not be pro-rated. For all Owner-provided equipment, include pricing for an initial two-year service contract.
- B. During the warranty period, no charges shall be made for any labor, equipment, or transportation to maintain performance and functions.
- C. The Contractor shall respond with a remedy to a trouble call within twenty-four (24) hours upon receipt of such a call, and shall provide a 24-hour service phone number. Downtime for system(s) shall be no longer than a 24-hour period. All replacement parts/components shall be of equal or higher level of service.
- D. Equivalent replacement equipment shall be temporarily provided when immediate on-site repairs cannot be made.
- E. At least two routine inspections and adjustment visits shall be scheduled for the first year, coordinated with Owner's Representative.
- F. Provide a separate price for an optional yearly service contract for five (5) years, to begin at the end of the initial warranty and service contract. Provide details on coverage and options.
- G. The Contractor shall be present at the first use of the system (scheduled by the Owner), and one (1) additional event as requested by the Owner for no additional charge.

1.19 INSTRUCTION OF OWNER PERSONNEL

- A. The training time shall not be less than a total of 32 hours, and shall consist of:
 - 1. Three periods: Sixteen (16) hours during normal day shift for system operators. Specific scheduled shall be established at the convenience of the Owner. The sixteen hours shall be broken down into several sections.
 - 2. Eight (8) hours of system training shall be provided to Owner supervisory personnel so that they are familiar system operation.
 - 3. Eight (8) hours of system maintenance familiarization training shall be provided to Owner's personnel.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Electronic component models shall be commercially available for at least one (1) year prior to bid or be approved by The Owner.
- B. All equipment and material shall be new.
- C. All equipment must be UL listed or built to UL standards, where required.

2.2 GENERAL

- A. All equipment shall be professional grade and rated for continuous duty. Basic guidelines have been prepared with manufacturer names, makes, and model numbers included as minimum performance requirements. These must be satisfied, unless a variance (separate document) is submitted and approved by the Owner.

- B. System shall be installed and configured for simplicity of operation, with user-friendly controls.
- C. Product quantity is as required for a complete and operable system. If any quantities are given, Theater Lighting Contractor shall provide at least the given amount. Some of the product listed under this section may not be required to fulfill the work as outlined.
- D. Regardless of the length or completeness of the descriptive paragraphs listed herein, each device shall meet published manufacture's specifications.

2.3 LIGHTING CONTROL

- A. 48 Pole Sensor:
 - 1. Acceptable Product:
 - a. Sensor IQ IQ48
- B. Circuit Breaker w/ Relay:
 - 1. Acceptable Product:
 - a. Sensor IQ SM B20
- C. 48 Pole Surface Mount Door:
 - 1. Acceptable Product:
 - a. Sensor IQ DOOR 120-48
- D. 7" Touch Screen:
 - 1. Acceptable Product:
 - a. Paradigm P-TS7-4
- E. Touch Screen Backbox:
 - 1. Acceptable Product:
 - a. Paradigm P-LCD-FBB
- F. Fader Station:
 - 1. Acceptable Product:
 - a. Paradigm PI1104-4
- G. 1-gang Inspire Faceplate:
 - 1. Acceptable Product:
 - a. Paradigm P-LCD-FBB
- H. Architectural Control Processor:
 - 1. Acceptable Product:
 - a. Paradigm P-LCD-FBB
- I. Station Power Module:
 - 1. Acceptable Product:
 - a. Paradigm P-LCD-FBB
- J. Wall Mount Enclosure:
 - 1. Acceptable Product:
 - a. Paradigm P-LCD-FBB
- K. 4-Port Gateway Enclosure:

1. Acceptable Product:
 - a. Paradigm P-LCD-FBB
- L. 12-Port Opto-Splitter:
 1. Acceptable Product:
 - a. Paradigm P-LCD-FBB
- M. 48-Port Patch Panel:
 1. Acceptable Product:
 - a. T.B.D.
- N. PoE Switch:
 1. Acceptable Product:
 - a. T.B.D.
- O. Wireless Access Point:
 1. Acceptable Product:
 - a. T.B.D.
- P. UPS:
 1. Acceptable Product:
 - a. T.B.D.
- Q. DMX Control Input:
 1. Acceptable Product:
 - a. ETC BSPS 6RD
- R. 35RU Equipment Rack:
 1. Acceptable Product:
 - a. Middle Atlantic DWR-35-26PD
- S. 1-gang Surface Mount Box:
 1. Acceptable Product:
 - a. ETC ECPB PB1
- T. NET Plug-In Station:
 1. Acceptable Product:
 - a. ETC ECPB NET
- U. **Emergency Control:**
 1. **Acceptable Product:**
 - a. **ETC SC1008**
 - b. **ETC DEBC-6**
 - a-c. **ETC EBDK**

2.4 CONSOLES

- A. Console:
 1. 4K or 24K output
 2. 5x 60mm motorized faders for hands-on programming

3. Supports up to two multi-touch external monitors
4. Control shall be DMX and Net3 compatible
5. Control and Programming capable
6. Acceptable Product

a. **ETC EOS APEXGIO @5**

B. 24" Touch Screen Monitor:

1. Acceptable Product:
 - a. T.B.D.

C. Control Interface Wall Plate (CS):

1. 5 Button wall station
2. Single gang
3. Supply with wall box
4. Acceptable Product
 - a. ETC UH10005 (color to be determined by Arch)

2.5 DISTRIBUTION

A. 1st and 2nd Electrics

1. Acceptable Product:
 - a. ETC 9956-(16AO/8)(16X/1)-X-XX

B. 3rd and 4th Electrics

1. Acceptable Product:
 - a. ETC 9956-(12AO/6)(12X/1)-X-XX

C. **840' Raceway**

1. **Acceptable Product:**
 - a. **ETC CSR840-3A/1-3X-X-111**
 - b. Provide with Hanger Bracket – ETC CSR HS WALL 111

D. **5660' Raceway (FOH)**

1. **Acceptable Product:**
 - a. **ETC CSR5660-16A/4-16X-X-134**
 - b. Provide with Hanger Bracket – ETC HB CATWALK 134

E. **5660' Raceway (Catwalk)**

1. **Acceptable Product:**
 - a. **ETC CSR5660-15A/4-15X-X-134**
 - b. Provide with Hanger Bracket – ETC HB CATWALK 134

2.6 LIGHTING FIXTURES AND ACCESSORIES

A. Fixtures

1. Type A – ETC CSCYC
2. Type B – ETC CSPARDB
3. Type C – ETC CSSPOTDB
4. Provide with Lenses - ETC EDLT
5. Type D – ETC Lonestar
6. Type E – ETC BSBBVNSPB

B. Assorted Color Gels (Qty. 30)

C. Gobos (Qty. 2 of each)

1. Tree and foliage
2. Tree
3. Stars
4. Snowflake
5. American flag
6. Christmas tree
7. Hanukah
8. Random shapes
9. Flowers
10. Footprints
11. Handprints
12. Heart(s)
13. Lightning
14. Mountains
15. Clouds
16. Stained glass
17. Wildlife
18. Waterfall
19. Ocean
20. Venetian blind

D. Please refer to the TE drawings for the Light Plot and Fixture Schedule.

~~20.~~

PART 3 - EXECUTION

3.1 INSTALLATION

- A. It shall be the responsibility of the Contractor to receive and store the necessary materials and equipment for installation of the dimmer system. The contractor shall deliver on a timely basis to other trades any equipment that must be installed during construction.
- B. The Contractor shall be responsible for field measurements and coordinating physical size of all equipment with the architectural requirements of the spaces into which they are to be installed.
- C. The Contractor shall install all lighting control and dimming equipment in accordance with manufacturer's approved shop drawings.
- D. All branch load circuits shall be live tested before connecting the loads to the dimmer system load terminals.

3.2 LABELING

- A. Device Labeling:
 1. Provide, for each piece of rack-mounted equipment, a printed label (black background and white lettering) and attach to the front of the equipment. Install in a plumb, level, and permanent manner. Provide rear mounted labeling for all rack-mounted equipment.
 2. Provide engraved label on each user-operated control that describes the function or purpose of the control as appropriate. Adjust size of label to appropriate size for location.
- B. Rack Labeling:
 1. Provide custom project plates at the top of each equipment rack designating Consultant and installation Contractor (see rack elevations for details).
 2. All rack panel labeling shall be engraved and filled.

C. Wire and terminal strip labeling:

1. Provide each terminal strip with a unique descriptor and numerical designator for each strip. Show strip information on the drawings.
2. Provide logical and legible cable and wiring labels permanently attached for easy identification to each cable on both ends.
3. Label on cables shall be adhesive style striping covered with clear, heat shrink tubing, sized appropriately for the cable.
4. Wiring designator shall be alphanumeric code, unique for each cable.
5. Each cable type shall be labeled starting with different destinations (i.e. Control cabling "Cxxx", Network cabling "Nxxx", etc.).
6. On projects that have multi room connectivity the source and destination room numbers should be the prefix for the cable number indicating a cable that traverses between two rooms.
7. Locate the cable designator at the origination and the destination of each circuit. Locate cable designator within 2" of connection point.

3.3 OUTDOOR EQUIPMENT MOUNTING

A. Outdoor Mounting Requirements:

1. All outdoor mounting hardware shall be non-corrosive.
2. Any exposed structural supports for lighting fixtures or other outdoor components shall be non-corrosive or covered with an inhibiting layer.
3. Any components mounted outside shall be secured in such a way as to prevent movement caused by wind or storms.
4. Provide screened covering over all openings in horn type enclosures to keep out birds, insects, or small animals.

3.4 CONTRACTOR TESTING AND OR COMISSIONING

A. Prior to energizing or testing the system(s), ensure the following

1. All products are installed in a proper and safe manner per the manufacturers' instructions.
2. Insulation and shrink tubing are present where required.
3. Dust, debris, solder, splatter, etc. is removed.
4. Cable is dressed, routed, and labels and all connections are consistent.
5. All labeling has been provided and installed.
6. All products are neat, clean, unmarred, and securely fastened.
7. All debris has been cleaned and removed from the site.
8. All electronic devices are properly grounded.

B. Before Acceptance Tests are scheduled, the Contractor shall perform their own system check-out. He shall furnish all required test equipment and shall perform all work necessary to determine and / or modify performance of the system to meet the requirements of this specification.

C. Testing items:

1. Testing of theater lighting systems shall include but, not be limited to, the following items as applicable to the systems installed:
 - a. Provide documentation that all lighting circuits dimmable and non-dimmed have been tested and verified and are functioning properly.
 - b. Provide documentation that all control signal connections have been tested and verified.
 - c. Provide documentation that all mounting and rigging elements have been verified for structural integrity and safety.
 - d. Provide documentation that all fixtures and lamps have been verified and are functioning properly.

3.5 MANUFACTURER'S SERVICES

- A. Upon completion of the installation, including testing of load circuits, the contractor shall notify the dimming system manufacturer that the system is available for formal checkout.
- B. Notification shall be provided in writing, two weeks prior to the time factory-trained personnel are needed on the job site.
- C. No power is to be applied to the dimming system unless specifically authorized by written instructions from the manufacturer.
- D. The contractor shall be liable for any return visits by the factory engineer as a result of incomplete or incorrect wiring.

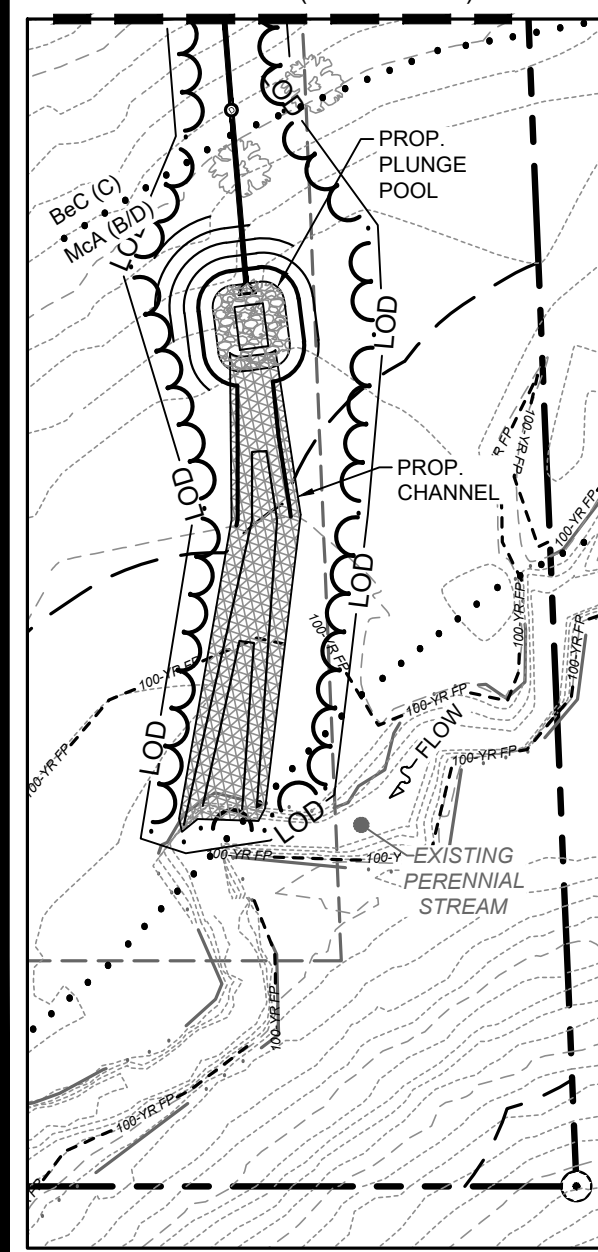
3.6 SPARE PARTS

- A. Provide replacement fuses, lamps, batteries, and connectors in sufficient quantities to last one (1) year.

3.7 CONSULTANT ACCEPTANCE TESTS

- A. Consultant acceptance tests will not be performed until after the contractor's system checkout as outlined above has been completed and the test results have been received and reviewed by the consultant and or owner.
- B. Consultant acceptance testing will be conducted based on the above outlined information and in accordance with the necessary test to show a fully complete, functional, and operating system(s)
- C. Checklist items within this list will be verified by visual and or audible methods as part of normal room use case operational scenarios, with the assumption that the Contractor has fulfilled their obligation to test and ensure that the systems are tested, complete and free of operational defects per manufacture requirements and the above.
- D. The system acceptance tests will be supervised by the consultant and will consist of the verification checklist as well as any additional tests as required:
 - 1. A physical inventory will be taken of all equipment on site and will be compared to equipment lists in the contract documents.
 - 2. The operation of all system equipment shall be demonstrated by the contractor.
 - 3. Contractor shall provide a laptop to support testing activities that is configured and ready connect to any and all control equipment for any adjustments that may be required by the consultant.
 - 4. Both subjective and objective operational tests will be required by the Consultant to determine compliance with the specifications and industry standards. The Contractor shall be responsible for providing all required test equipment based on system complexity and equipment selection / configuration.
 - 5. Operational use case test scenarios may be conducted based on programmed room uses and functionality.
 - 6. All final, "as-built" drawings, run sheets, manuals, and other required documents, as detailed in Part I, shall be on hand. Two complete sets of these documents shall be delivered to the Owner at this time. (One complete set shall have been delivered to the Consultant prior to the scheduling of Acceptance Tests).
 - 7. In the event further adjustment is required, or defective equipment must be repaired or replaced, tests may be suspended or continued at the option of the consultant.
- E. Any charge for additional time incurred by the consultant required for overseeing the system tests, due to improper system installation or previous failed systems, shall be the responsibility of, and charged directly to the contractor and or subcontractor as appropriate.

END OF SECTION 26 55 61



300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'

DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.: C-5

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 897, AOC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND

PREPARED FOR: CECIL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022

JOB NUMBER: D2210047

SCALE: F = 40'


DRAWN BY: A/J/V

DESIGNED BY: A/J/V

APPROVED BY: DSG

FOUNDER REFERENCE: 283B

SHEET NO.:

DATE 3/21/2024 

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 31400, Expiration Date: 1-16-2025.

[illegible]

McCRONE
ENGINEERS ■ SURVEYORS ■ PLANNERS
ANNAPOLIS ■ CENTREVILLE ■ ELKTON ■ SALISBURY ■ DELAWARE

107 CHESAPEAKE BOULEVARD, SUITE 104
UPPER CHESAPEAKE CORPORATE CENTER
ELKTON, MARYLAND 21921
410.576.3256

www.mccrone-engineering.com

Copyright

DATE:	NOV. 2022
JOB NUMBER:	D3210047
SCALE:	1" = 40'
DRAWN BY:	AJW
DESIGNED BY:	AJW
APPROVED BY:	DSS
FOLDER REFERENCE:	26834B

MAJOR SITE PLAN (CENTER)

300 IRISTOWN ROAD, NORTH EAST, MD 21061
FAX MAP 31, GRID 17, PARCEL 857, ADC MAP 11, GRID G-13

***NORTH EAST MIDDLE AND
HIGH SCHOOLS***

FIFTH ELECTION DISTRICT, CECIL COUNTY, MARYLAND
PREPARED FOR CECIL COUNTY PUBLIC SCHOOLS

SHEET NO.: C-5

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandparker.com

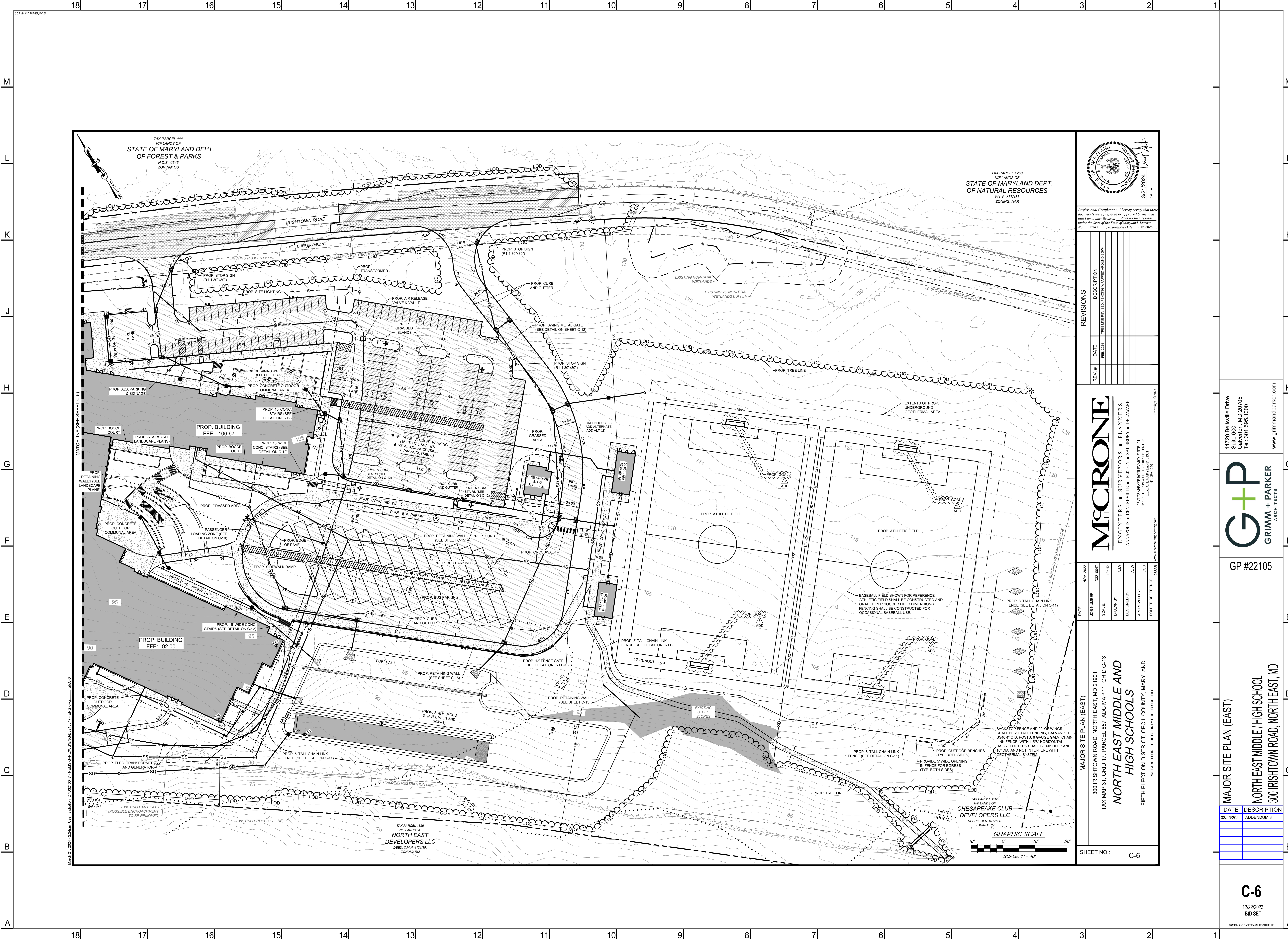
G + P
GRIMM + PARKER
ARCHITECTS

GP #22105

DATE	MAJOR SITE PLAN (CENTER)	
DESCRIPTION	NORTH EAST MIDDLE / HIGH SCHOOL 300 IRISHTOWN ROAD, NORTH EAST, MD	
	C	D

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

C-5
12/22/2023
BID SET



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 1400, Expiration Date: 1-16-2025

REVISIONS	
REV #	DESCRIPTION
1	TREE LINE REVISED FENCING WRAPPED AROUND SWMA
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	

McCRONE
ENGINEERS • SURVEYORS • PLANNERS
ANNAPOLIS • CENTREVILLE • ELKTON • SALISBURY • DELAWARE
180 CHESAPEAKE BOULEVARD, SUITE 104
UPPER MERIDEN, MARYLAND 21081
410.296.1550
www.mccrone-engineers.com

DATE	NOV 2022
ASB NUMBER	D221047
SCALE	1" = 40'
DRAWN BY:	AJW
DESIGNED BY:	AJW
APPROVED BY:	DSS
FOLDER REFERENCE	26893

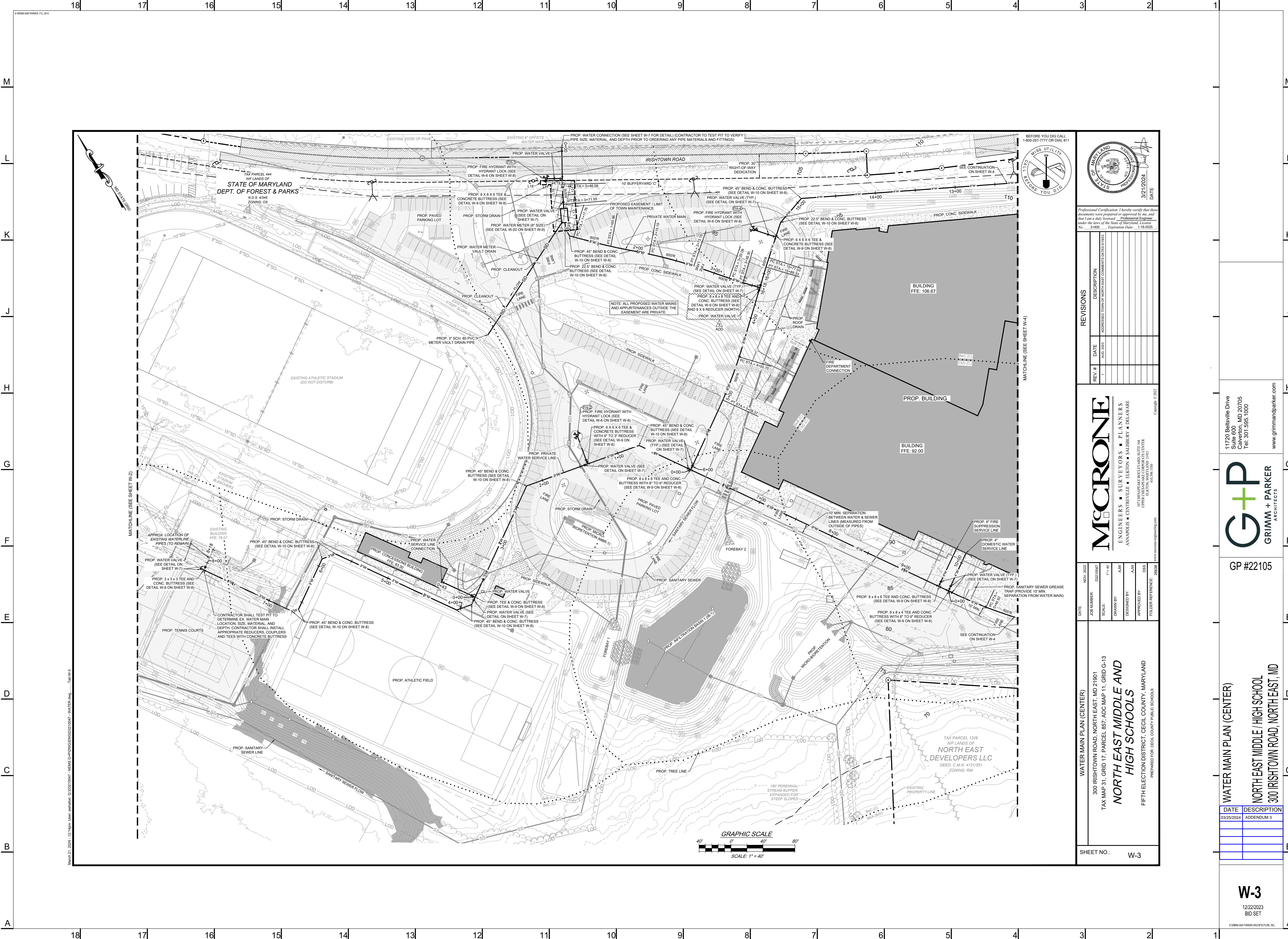
MAJOR SITE PLAN (EAST)
300 IRISHTOWN ROAD, NORTH EAST, MD 21901
TAX MAP 31, GRID 17, PARCEL 857, ADC MAP 11, GRID C-13
NORTH EAST MIDDLE AND HIGH SCHOOLS
FIFTH ELECTION DISTRICT, DECELY COUNTY, MARYLAND
PREPARED FOR: DECELY COUNTY PUBLIC SCHOOLS

SHEET NO.: C-6

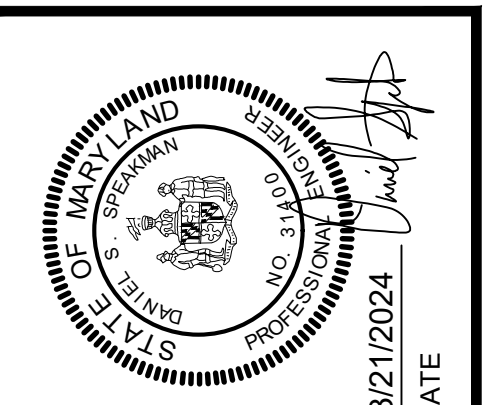
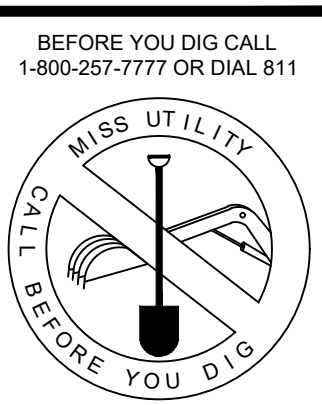
MAJOR SITE PLAN (EAST)
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

C-6
12/22/2023
BID SET



March 21, 2024 - 12:15pm User: awallace Q:\032101047 - NEWS GP\DWG\GEN\032101047 - WATER.dwg - Tab W-3



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 31402. Expiration Date: 1-16-2025

REVISIONS	
REV. #	DATE
1	AUG. 2023

McCRONE
ENGINEERS • SURVEYORS • PLANNERS
ANNAPOLIS • CENTREVILLE • ELKTON • SALISBURY • DELAWARE

DATE:	NOV. 2023
DWG. NUMBER:	D02101047
SCALE:	1" = 40'
DRAWN BY:	AJW
DESIGNED BY:	AJW
APPROVED BY:	DSS
FOLDER REFERENCE:	26093

WATER MAIN PLAN (CENTER)
300 IRISTOWN ROAD, NORTH EAST, MD 21901
TAX MAP 31, GRID 17, PARCEL 857, ADC MAP 11, GRID G-13
NORTH EAST MIDDLE AND HIGH SCHOOLS
FIFTH ELECTION DISTRICT, CECL COUNTY, MARYLAND
PREPARED FOR: CECL COUNTY PUBLIC SCHOOLS

SHEET NO.: W-3

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com



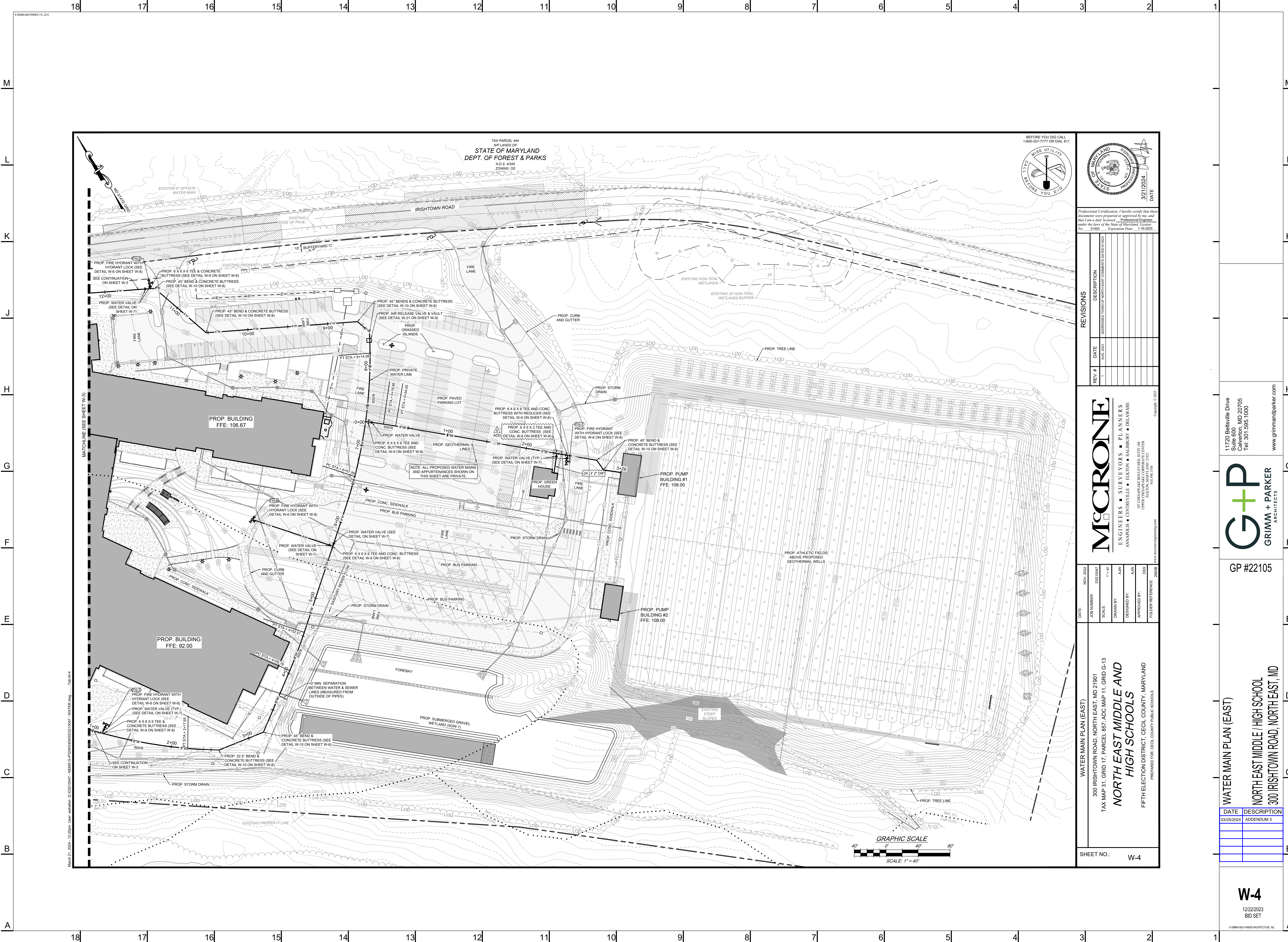
GP #22105

WATER MAIN PLAN (CENTER)
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

W-3
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.



DATE: NOV 2022

ASB NUMBER: D32103AT

SCALE: 1"=40'

DRAWN BY: AJW

DESIGNED BY: AJW

APPROVED BY: DSS

FOLDER REFERENCE: 26893

WATER MAIN PLAN (EAST)

300 IRISHTOWN ROAD, NORTH EAST, MD 21901

TAX MAP 31, GRID 17, PARCEL 857, ADC MAP 11, GRID G-13

NORTH EAST MIDDLE AND HIGH SCHOOLS

FIFTH ELECTION DISTRICT, CECL COUNTY, MARYLAND

PREPARED FOR: CECL COUNTY PUBLIC SCHOOLS

SHEET NO.: W-4

DATE: 3/21/2024

DATE

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland. License No. 31400, Expiration Date: 1-16-2025

Professional Engineer

REVISIONS

REV #	DATE	DESCRIPTION
1	AUG 2023	ADDRESSED TOWN OF NORTH EAST COMMENTS DATED 01/03

McCRONE

ENGINEERS • SURVEYORS • PLANNERS

ANNAPOLIS • CENTREVILLE • ELKTON • SALISBURY • DELAWARE

180 CHESAPEAKE BOULEVARD, SUITE 104

UPPER MERIDIAN, MARYLAND 21001

410.296.1550

www.mccrone-engineering.com

Copyright © 2023

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

WATER MAIN PLAN (EAST)

NORTH EAST MIDDLE / HIGH SCHOOL

300 IRISHTOWN ROAD, NORTH EAST, MD

GP #22105

G+P

GRIMM + PARKER

ARCHITECTS

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandparker.com

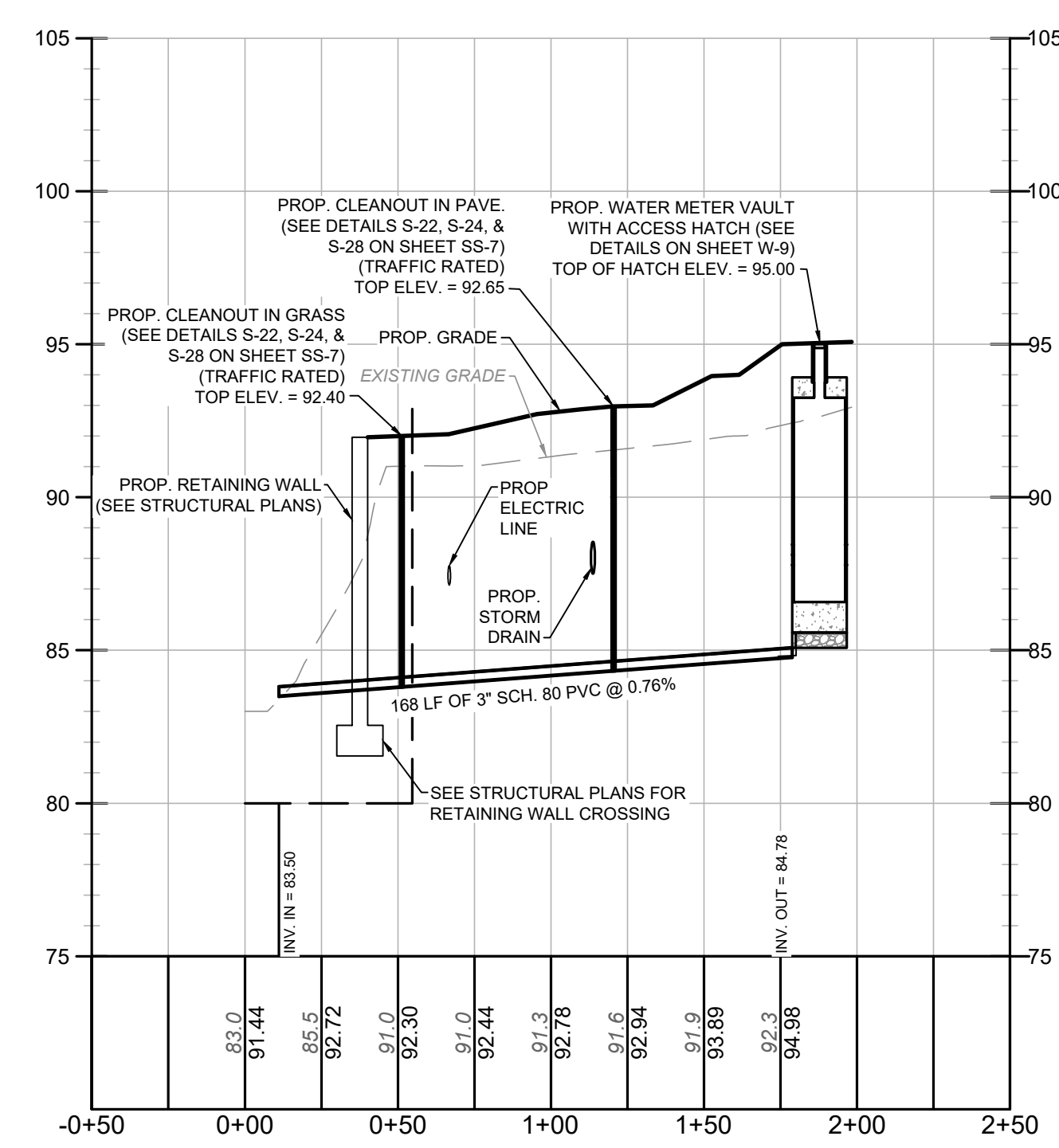
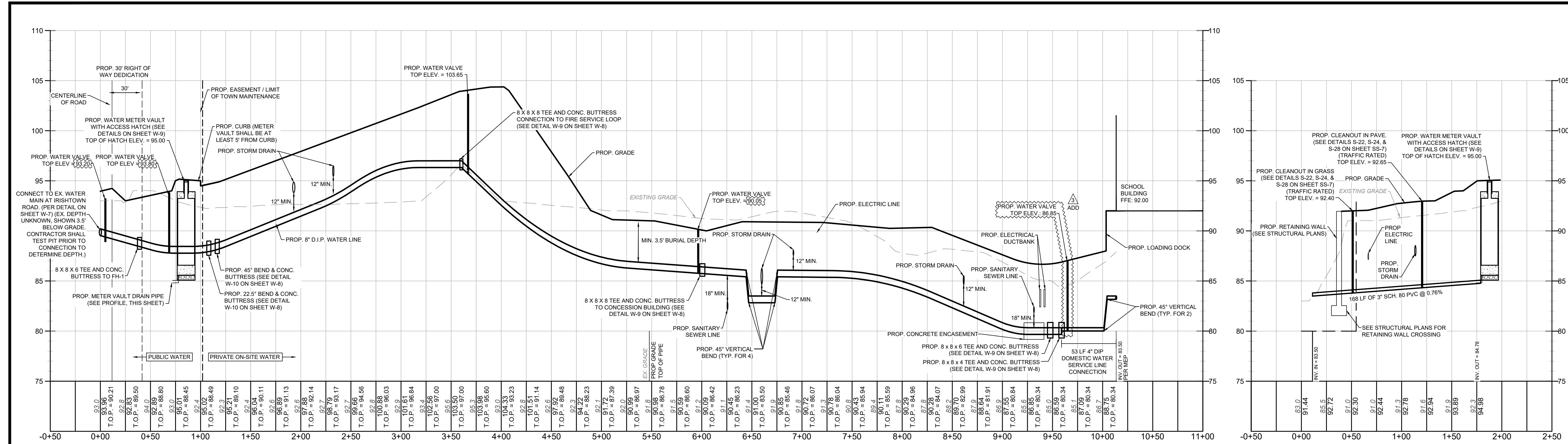
11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland. License No. 31400, Expiration Date: 1-16-2025

W-4

12/22/2023

BID SET



REVISIONS	
REV #	DESCRIPTION
1	DATE: AUG. 2023

McCRONE
ENGINEERS • SURVEYORS • PLANNERS
ANNAPOLIS • CENTREVILLE • ELKTON • SALISBURY • DELAWARE

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.girmmandparker.com

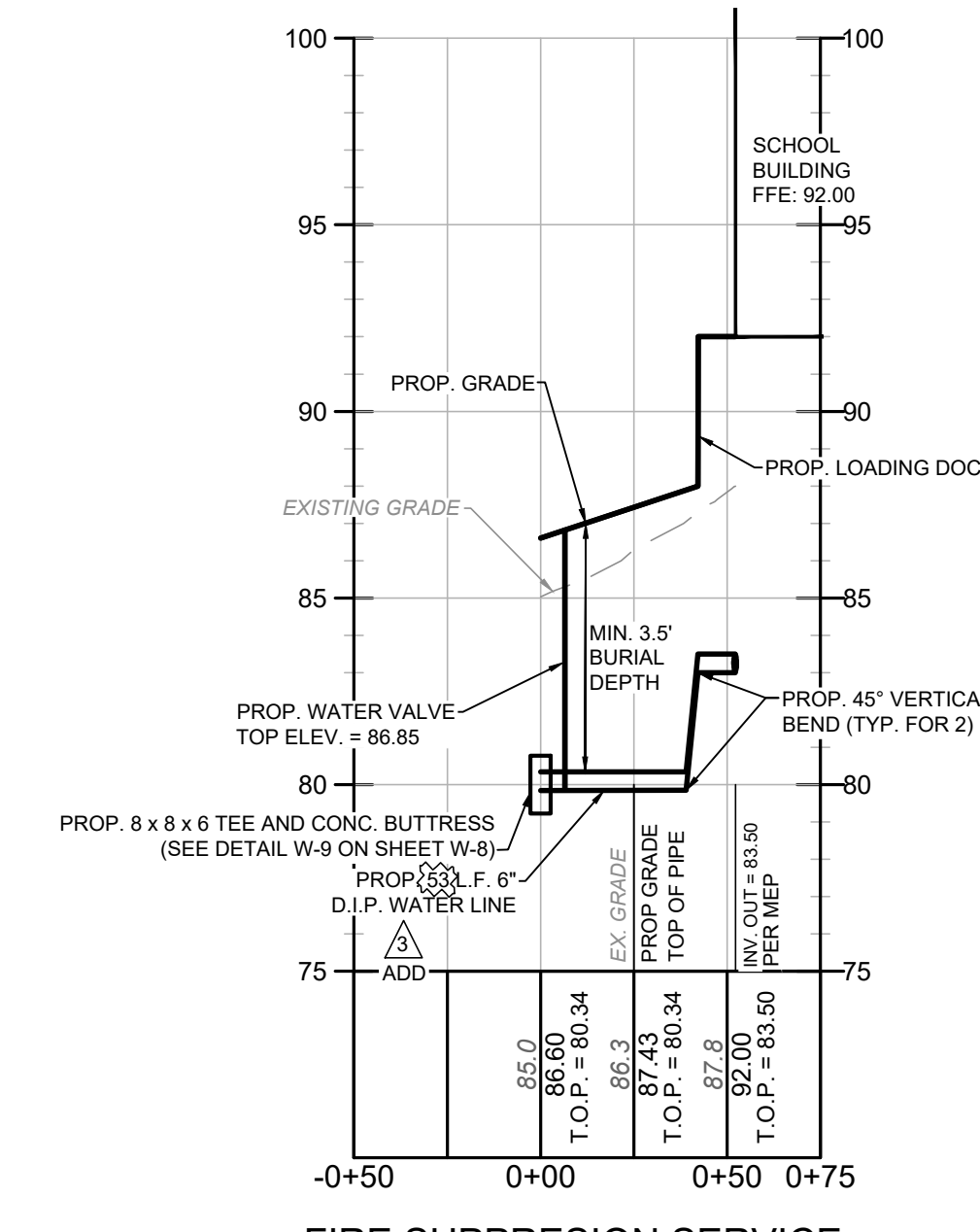
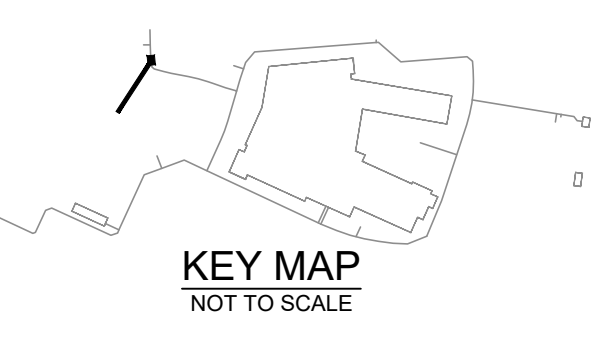
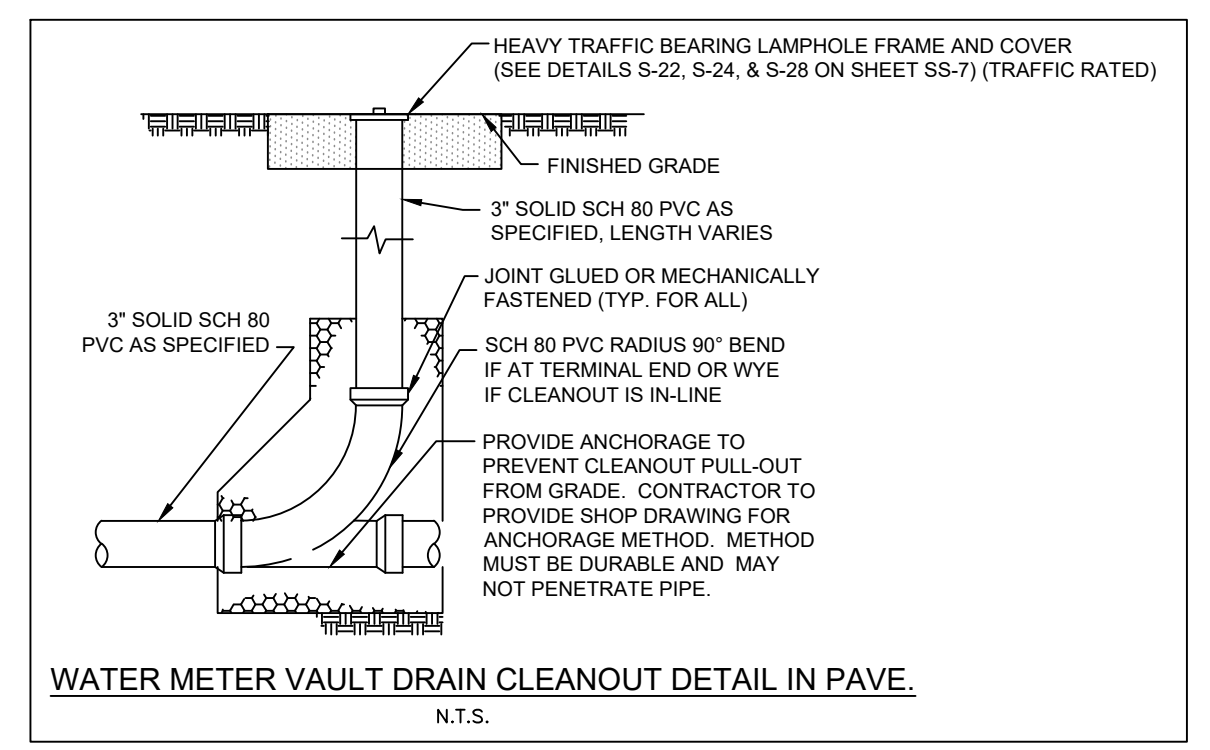
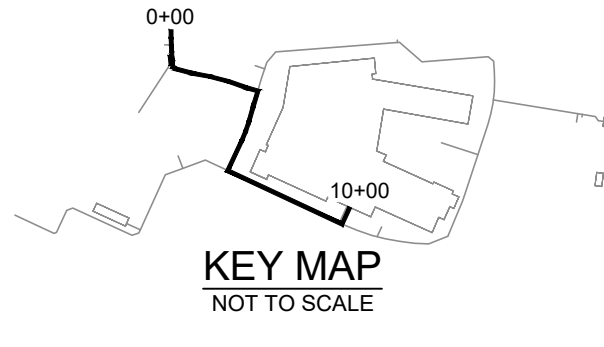
DATE:	NOV. 2022
ASB NUMBER:	D0210047
SCALE:	AS SHOWN
DRAWN BY:	ALW
DESIGNED BY:	ALW
APPROVED BY:	DSS
FOLDER REFERENCE:	26938

WATER MAIN PROFILES
300 IRISHTOWN ROAD, NORTH EAST, MD 21901
TAX MAP 31, GRID 17, PARCEL 857, ADC MAP 11, GRID C-13
NORTH EAST MIDDLE AND HIGH SCHOOLS
FIFTH ELECTION DISTRICT, DEOL COUNTY, MARYLAND
PREPARED FOR: DEOL COUNTY PUBLIC SCHOOLS

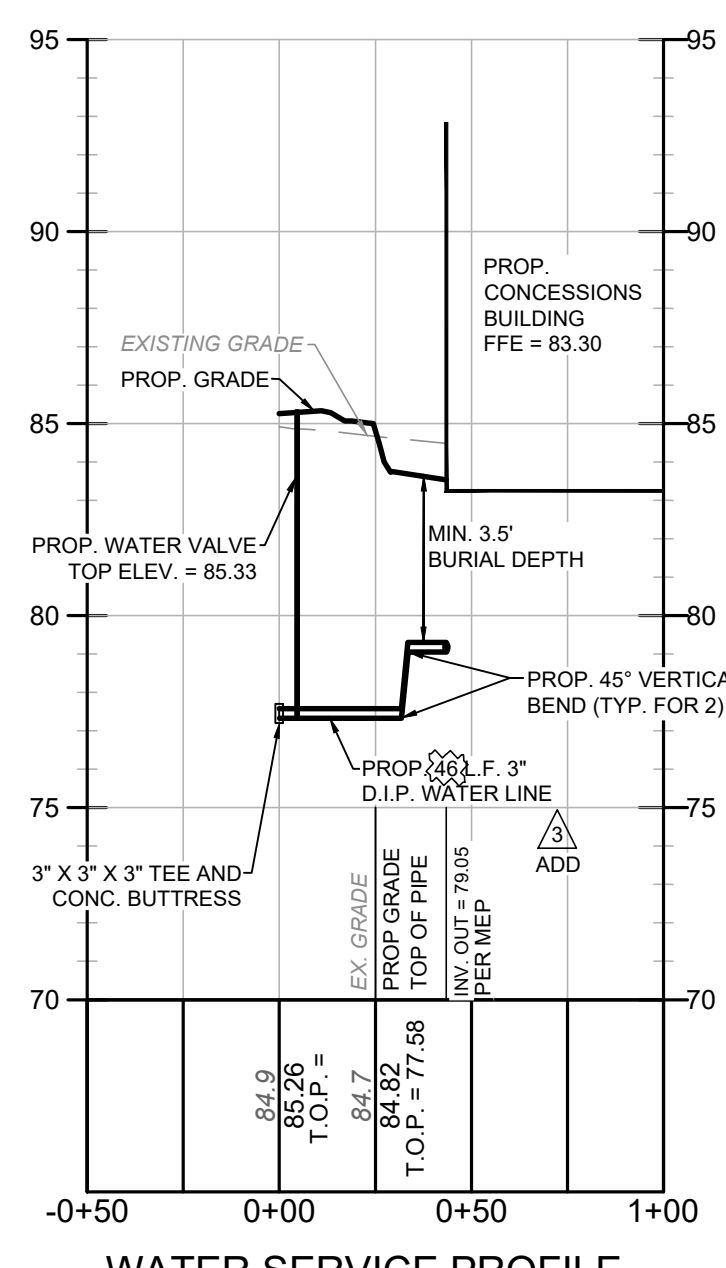
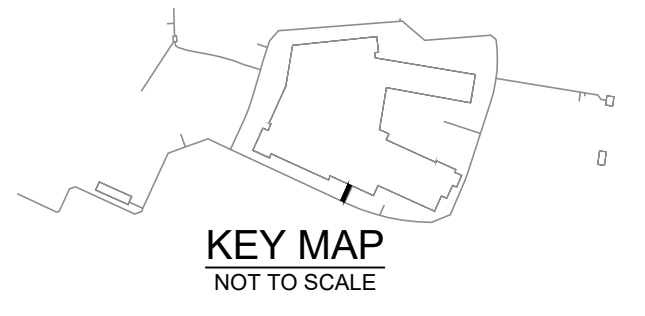
SHEET NO.: W-5



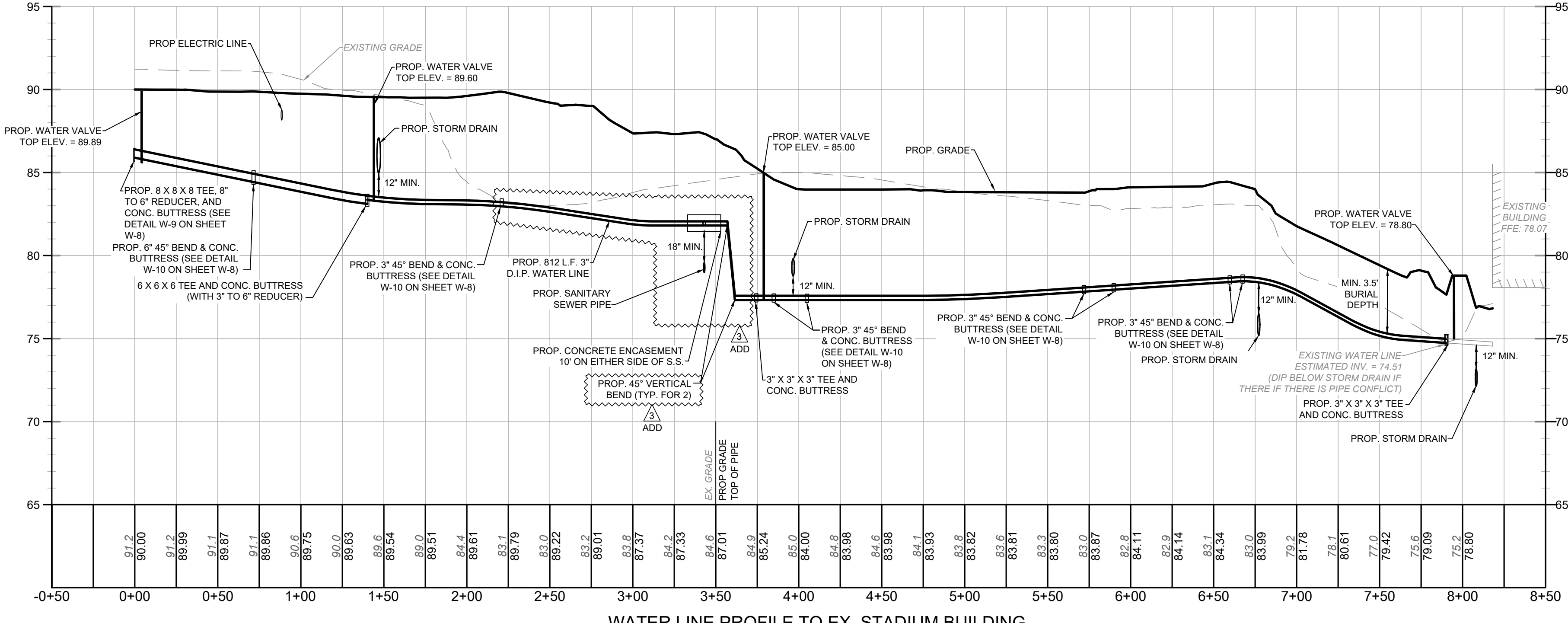
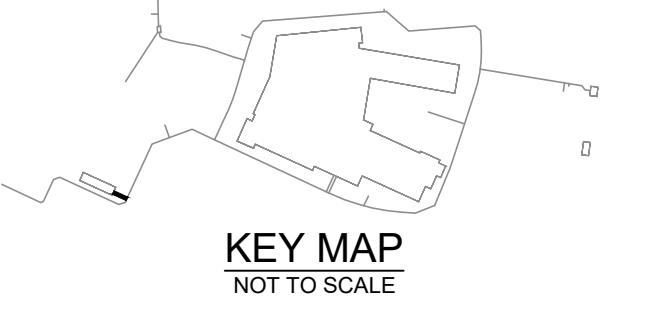
A MAXIMUM 1" AXIAL JOINT DEFLECTION AND 1" MAXIMUM LONGITUDINAL PIPE DEFLECTION RESULTS IN A TOTAL OF 2" MAXIMUM DEFLECTION. THE JOINT MUST BE RESTRAINED IF THE PIPE IS TO BE LONGITUDINALLY DEFLECTED. THIS 2" MAXIMUM DEFLECTION RESULTED IN A MINIMUM RADIUS OF 563' FOR 20' LENGTHS OF PIPE, THEREFORE A MINIMUM RADIUS OF 600' WAS USED FOR DESIGN.



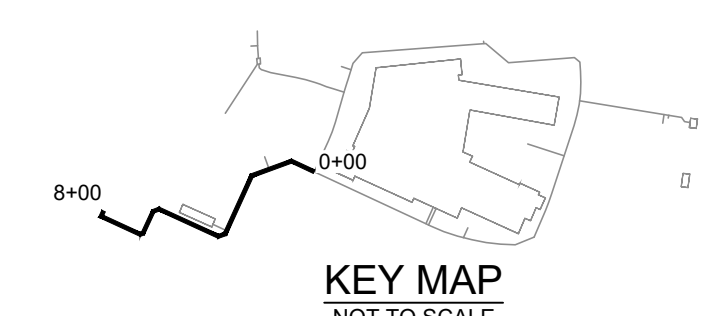
FIRE SUPPRESSION SERVICE: CONNECTION TO SCHOOL BUILDING
SCALE: H: 1" = 50' V: 1" = 5'



WATER SERVICE PROFILE TO CONCESSION BUILDING
SCALE: H: 1" = 50' V: 1" = 5'



WATER LINE PROFILE TO EX. STADIUM BUILDING
SCALE: H: 1" = 50' V: 1" = 5'

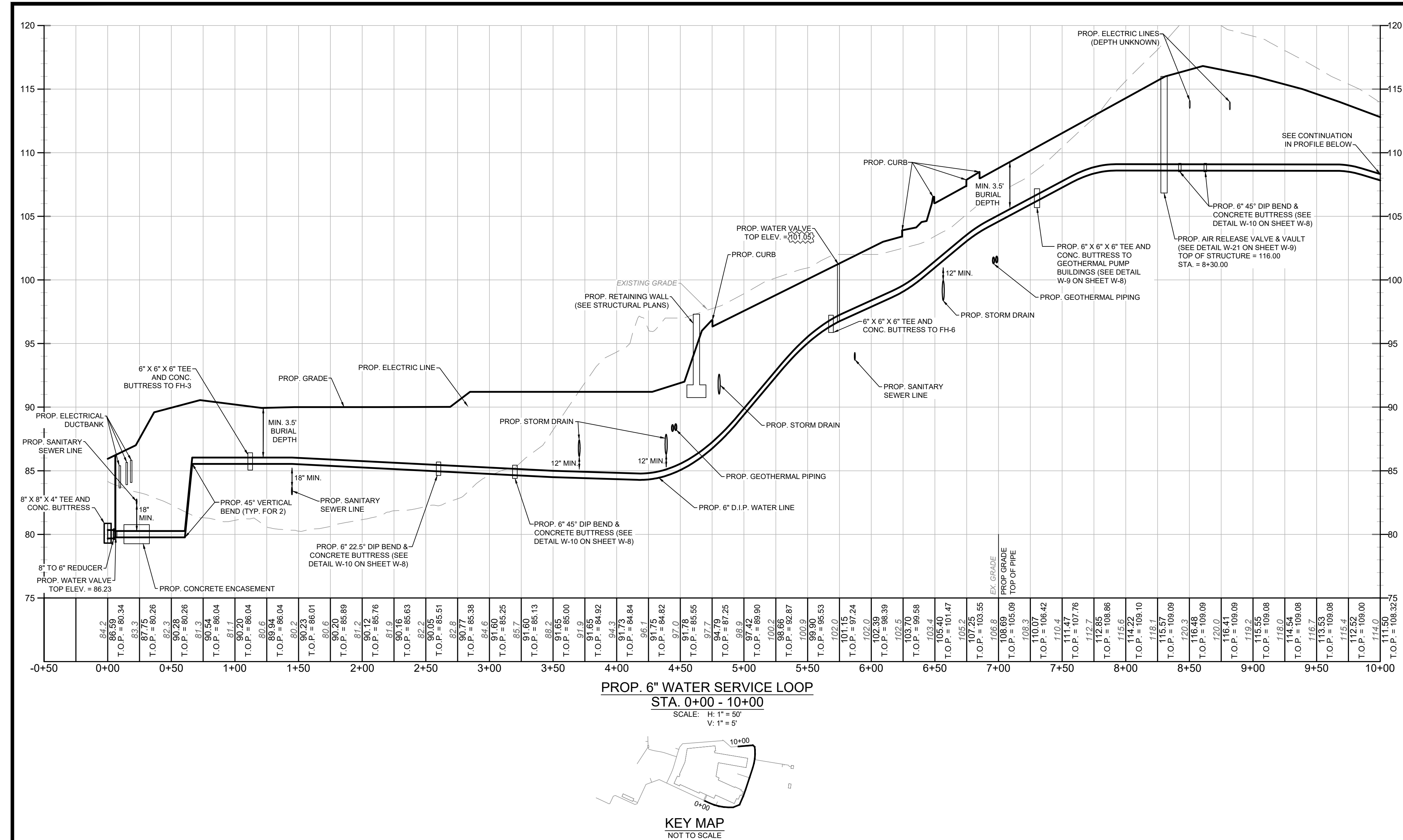


WATER MAIN PROFILES
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

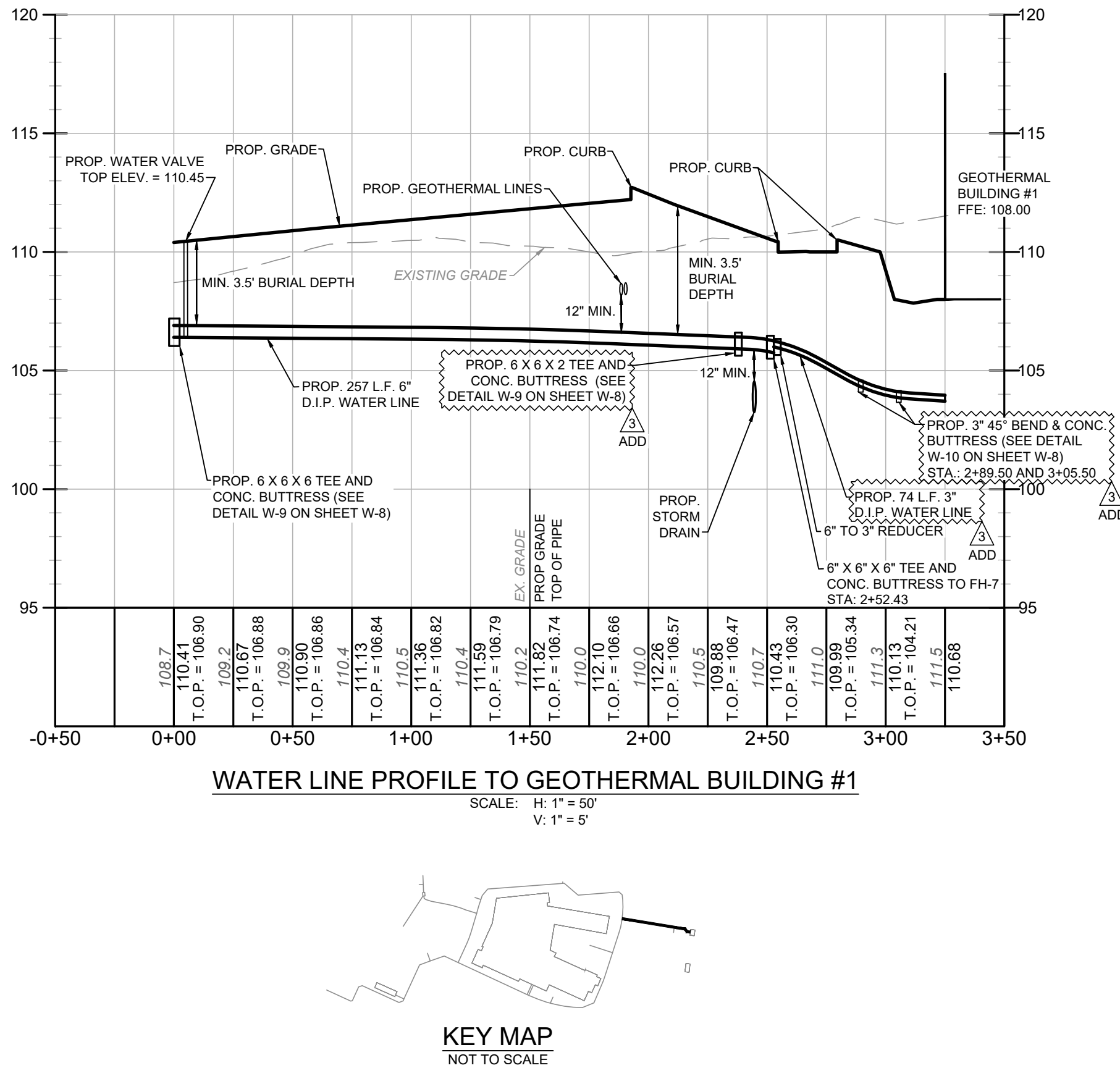
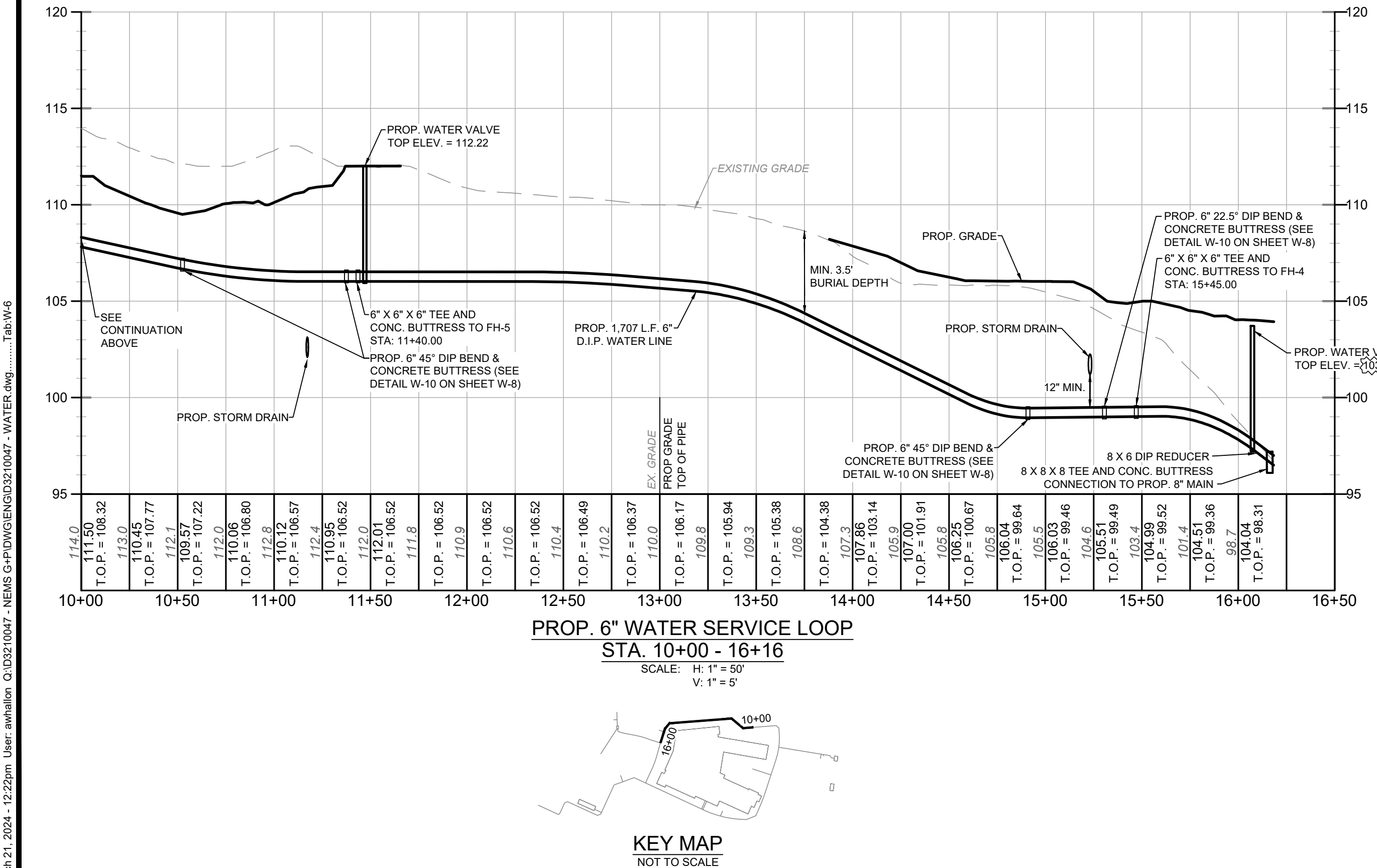
DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

W-5
12/22/2023
BID SET

M
L
K
J
H
G
F
E
D
C
B
A



A MAXIMUM 1" AXIAL JOINT DEFLECTION AND 1" MAXIMUM LONGITUDINAL PIPE DEFLECTION RESULTS IN A TOTAL OF 2" MAXIMUM DEFLECTION. THE JOINT MUST BE RESTRAINED IF THE PIPE IS TO BE LONGITUDINALLY DEFLECTED. THIS 2" MAXIMUM DEFLECTION RESULTED IN A MINIMUM RADIUS OF 563' FOR 20' LENGTHS OF PIPE, THEREFORE A MINIMUM RADIUS OF 600' WAS USED FOR DESIGN.



BEFORE YOU DIG CALL
1-800-257-7777 OR DIAL 811
MISS UTILITY
BEFORE YOU DIG

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 31402, Expiration Date: 1-16-2025

REVISIONS		DESCRIPTION
REV. #	DATE	
1	AUG. 2023	ADDED TOWN OF NORTH EAST COMMENTS DATED 01/03/2023

McCRONE
ENGINEERS • SURVEYORS • PLANNERS
ANNAPOLIS • CENTREVILLE • ELKTON • SALISBURY • DELAWARE
180 CHESAPEAKE BOULEVARD, SUITE 104
UPPER MERIDEN, MARYLAND 21081
www.mccrone-engineering.com
Copyright © 2023

DATE:	NOV. 2022
ASB NUMBER:	D0210047
SCALE:	AS SHOWN
DRAWN BY:	AJW
DESIGNED BY:	AJW
APPROVED BY:	DSS
FOLDER REFERENCE:	26893

300 IRISTOWN ROAD, NORTH EAST, MD 21901
TAX MAP 31, GRID 17, PARCEL 857, ADC MAP 11, GRID G-13
NORTH EAST MIDDLE AND HIGH SCHOOLS
FIFTH ELECTION DISTRICT, DEOL COUNTY, MARYLAND
PREPARED FOR: DEOL COUNTY PUBLIC SCHOOLS

SHEET NO.: W-6

M
L
K
J
H
G
F
E
D
C
B
A

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.girmandparker.com

GP #22105

WATER MAIN PROFILES
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

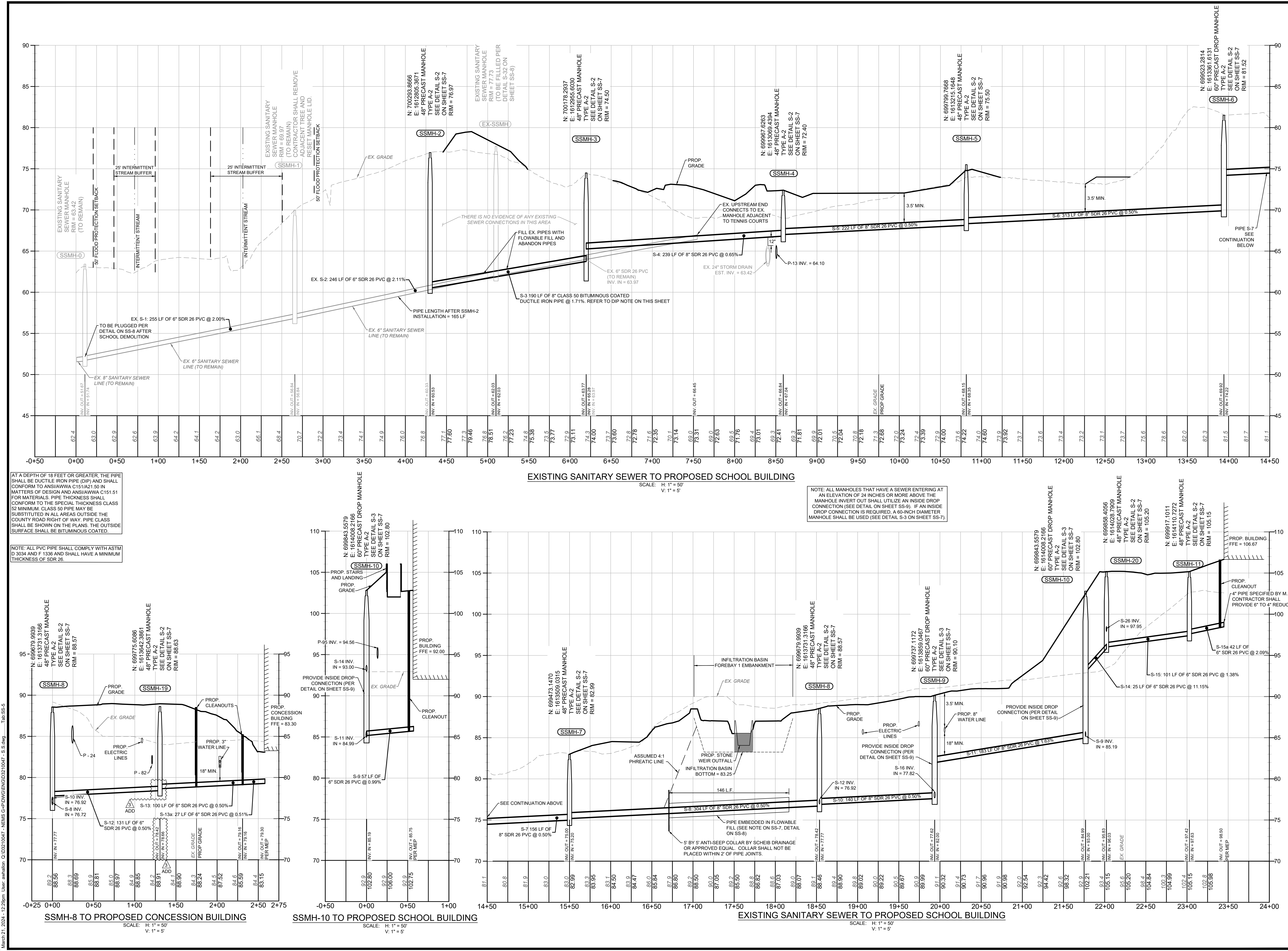
DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

W-6
12/22/2023
BID SET

© GIRMAN AND PARKER ARCHITECTURE INC.



M
L
K
J
H
G
F
E
D
C
B
A



DATE
3/21/2024

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 14052, Expiration Date: 1-16-2025

Professional Engineer
DAVID D. PARKER
11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.girmmandparker.com

REVISIONS

REV. #	DATE	DESCRIPTION
1	AUG. 2023	ADRESSED CECL COUNTY COMMENTS DATED 4/19/23
2	JAN. 2024	ADRESSED CECL COUNTY COMMENTS DATED 10/6/23

McCRONE
ENGINEERS • SURVEYORS • PLANNERS
ANNAPOLIS • CENTREVILLE • ELKTON • SALISBURY • DELAWARE
180 CHESAPEAKE BOULEVARD, SUITE 104
UPPER MERIDEN, MARYLAND 20888
410.296.1550
www.mccrone-engineers.com

SANITARY SEWER PROFILES

300 IRISHTOWN ROAD, NORTH EAST, MD 21901
TAX MAP 31, GRID 17, PARCEL 857, ADC MAP 11, GRID Q-13
NORTH EAST MIDDLE AND HIGH SCHOOLS
FIFTH ELECTION DISTRICT, CECL COUNTY, MARYLAND
PREPARED FOR: CECL COUNTY PUBLIC SCHOOLS

DATE: NOV. 2022
JOB NUMBER: D0210047
SCALE: AS SHOWN
DRAWN BY: ALW
DESIGNED BY: ALW
APPROVED BY: DSS
FOLDER REFERENCE: 26893

SHEET NO.: SS-5

SANITARY SEWER PROFILES

NORTH EAST MIDDLE / HIGH SCHOOL

300 IRISHTOWN ROAD, NORTH EAST, MD

DATE: 03/25/2024

DESCRIPTION: ADDENDUM 3

SS-5

12/22/2023

BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

M
L
K
J
H
G
F
E
D
C
B
A

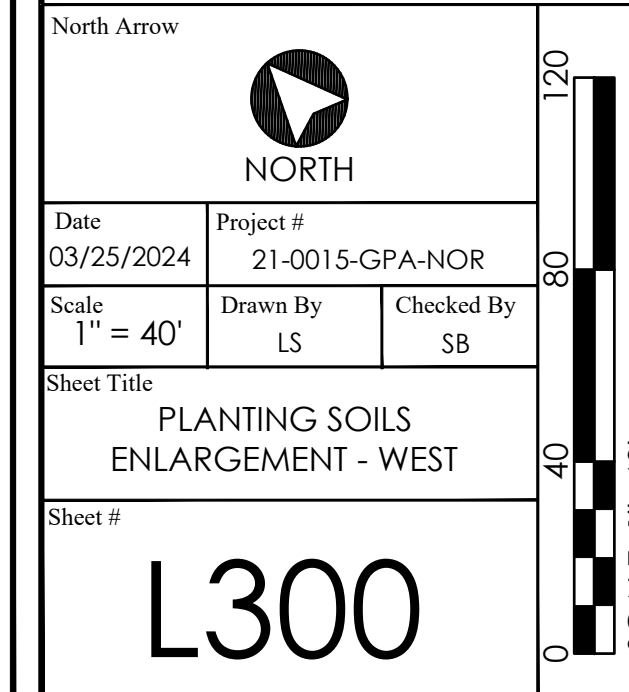


1010 Wisconsin Avenue NW
Suite 620
Washington, DC 20007
P: 202.695.8056
www.bradleysitedesign.com


[illegible]

Owner	Architect	Contractor	Surety
-------	-----------	------------	--------

NORTH EAST MIDDLE /
HIGH SCHOOL
300 IRISHTOWN ROAD,
NORTH EAST, MD



1010 Wisconsin Avenue NW
Suite 620
Washington, DC 20007
P: 202.695.8056
www.bradleysitedesign.com



BRADLEY
SITE DESIGN, INC.
LANDSCAPE ARCHITECTURE



123 East Main Street
2nd Floor
Charlottesville, VA 22902
Tel: 434-296-5353

www.grimmandparker.com



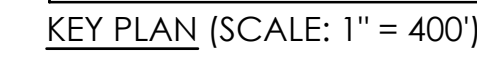
GP #22105

PLANTING SOILS ENLARGEMENT -
WEST
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

[illegible]

L300
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.



BRADLEY
SITE DESIGN, INC.
LANDSCAPE ARCHITECTURE

1010 Wisconsin Avenue NW
Suite 620
Washington, DC 20007
P: 202.695.8056
www.bradleysitedesign.com

BID SET

[illegible]



A PLANTING PLAN - CENTER
1" = 40'

© GRIMM AND PARKER ARCHITECTURE, INC.



1010 Wisconsin Avenue NW
Suite 620
Washington, DC 20007
P: 202.695.8056
www.bradleysitedesign.com

BID SET

1105

L405

SCALE: 1"=40'

QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
-----	----------------	-------------	------	---------

Q#	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
----	-----------------	-------------	------	---------

7	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2" CAL.	STRONG SINGLE LEADER/SPECIMEN
2	BETULA NIGRA 'BNAITE' TM	DURA HEAT RIVER BIRCH	10' HT.	MULTISTEMMED SPECIMEN

COUNTRY/TERRITORY	PERIOD	VALUE	UNIT	SOURCE	STATUS	REMARKS
ALGERIA	2017	1.0	kg	FAO		
ALGERIA	2018	1.0	kg	FAO		
ALGERIA	2019	1.0	kg	FAO		
ALGERIA	2020	1.0	kg	FAO		
ALGERIA	2021	1.0	kg	FAO		
ALGERIA	2022	1.0	kg	FAO		
ALGERIA	2023	1.0	kg	FAO		
ALGERIA	2024	1.0	kg	FAO		
ALGERIA	2025	1.0	kg	FAO		
ALGERIA	2026	1.0	kg	FAO		
ALGERIA	2027	1.0	kg	FAO		
ALGERIA	2028	1.0	kg	FAO		
ALGERIA	2029	1.0	kg	FAO		
ALGERIA	2030	1.0	kg	FAO		
ALGERIA	2031	1.0	kg	FAO		
ALGERIA	2032	1.0	kg	FAO		
ALGERIA	2033	1.0	kg	FAO		
ALGERIA	2034	1.0	kg	FAO		
ALGERIA	2035	1.0	kg	FAO		
ALGERIA	2036	1.0	kg	FAO		
ALGERIA	2037	1.0	kg	FAO		
ALGERIA	2038	1.0	kg	FAO		
ALGERIA	2039	1.0	kg	FAO		
ALGERIA	2040	1.0	kg	FAO		
ALGERIA	2041	1.0	kg	FAO		
ALGERIA	2042	1.0	kg	FAO		
ALGERIA	2043	1.0	kg	FAO		
ALGERIA	2044	1.0	kg	FAO		
ALGERIA	2045	1.0	kg	FAO		
ALGERIA	2046	1.0	kg	FAO		
ALGERIA	2047	1.0	kg	FAO		
ALGERIA	2048	1.0	kg	FAO		
ALGERIA	2049	1.0	kg	FAO		
ALGERIA	2050	1.0	kg	FAO		
ALGERIA	2051	1.0	kg	FAO		
ALGERIA	2052	1.0	kg	FAO		
ALGERIA	2053	1.0	kg	FAO		
ALGERIA	2054	1.0	kg	FAO		
ALGERIA	2055	1.0	kg	FAO		
ALGERIA	2056	1.0	kg	FAO		
ALGERIA	2057	1.0	kg	FAO		
ALGERIA	2058	1.0	kg	FAO		
ALGERIA	2059	1.0	kg	FAO		
ALGERIA	2060	1.0	kg	FAO		
ALGERIA	2061	1.0	kg	FAO		
ALGERIA	2062	1.0	kg	FAO		
ALGERIA	2063	1.0	kg	FAO		
ALGERIA	2064	1.0	kg	FAO		
ALGERIA	2065	1.0	kg	FAO		
ALGERIA	2066	1.0	kg	FAO		
ALGERIA	2067	1.0	kg	FAO		
ALGERIA	2068	1.0	kg	FAO		
ALGERIA	2069	1.0	kg	FAO		
ALGERIA	2070	1.0	kg	FAO		
ALGERIA	2071	1.0	kg	FAO		
ALGERIA	2072	1.0	kg	FAO		
ALGERIA	2073	1.0	kg	FAO		
ALGERIA	2074	1.0	kg	FAO		
ALGERIA	2075	1.0	kg	FAO		
ALGERIA	2076	1.0	kg	FAO		
ALGERIA	2077	1.0	kg	FAO		
ALGERIA	2078	1.0	kg	FAO		
ALGERIA	2079	1.0	kg	FAO		
ALGERIA	2080	1.0	kg	FAO		
ALGERIA	2081	1.0	kg	FAO		
ALGERIA	2082	1.0	kg	FAO		
ALGERIA	2083	1.0	kg	FAO		
ALGERIA	2084	1.0	kg	FAO		
ALGERIA	2085	1.0	kg	FAO		
ALGERIA	2086	1.0	kg	FAO		
ALGERIA	2087	1.0	kg	FAO		
ALGERIA	2088	1.0	kg	FAO		
ALGERIA	2089	1.0	kg	FAO		
ALGERIA	2090	1.0	kg	FAO		
ALGERIA	2091	1.0	kg	FAO		
ALGERIA	2092	1.0	kg	FAO		
ALGERIA	2093	1.0	kg	FAO		
ALGERIA	2094	1.0	kg	FAO		
ALGERIA	2095	1.0	kg	FAO		
ALGERIA	2096	1.0	kg	FAO		
ALGERIA	2097	1.0	kg	FAO		

2	CRYPTOMERIA JAPONICA	JAPANESE CEDAR	8' HT.	STRONG SINGLE LEADER/SPECIMEN
2	ILEX Y 'NELLIE B. STEVENS'	NELLIE B. STEVENS HOLLY	8' HT.	SINGLE STRONG LEADER/SPECIMEN

ORNAMENTAL TREES				
6	AGED CRISPEUM	BARBER PARK MAPLE	CHOCOLATE	SUBMIT PICTURES FOR APPROVAL BY LANDSCAPE

2	ACER GRISEUM	PAPERBARK MAPLE	2" CAL.	SUBMIT PICTURES FOR APPROVAL BY LANDSCAPE ARCHITECT _____
---	--------------	-----------------	---------	--

3	LAGERSTROEMIA X NATCHEZ	WHITE CRAPE MYRTLE	1.25 CAL.	MULISTEMMED SPECIMEN
7	PRUNUS X YEDOENSIS	YOSHINO CHERRY	2.5" CAL.	SINGLE STRONG LEADER/SPECIMEN

308	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	2.5' HT.	30" O.C.	MIN. 4 CANES
24	CEPHALOTAXUS HARRINGTONIA 'PROSTRATA'	PROSTRATE BLUE YEW		36" O.C.	

112	VIBURNUM ACERIFOLIUM	MAPELEAF VIBURNUM	3' HT.	72" O.C.	MIN. 5 CANES
118	VIBURNUM DENTATUM 'ARROWWOOD'	ARROWWOOD VIBURNUM	3' HT.	84" O.C.	MIN. 5 CANES

1,136	JASMINUM NUDIFLORUM	WINTER JASMINE	2.5' HT.	30" o.c.	MIN. 5 CANES
-------	---------------------	----------------	----------	----------	--------------

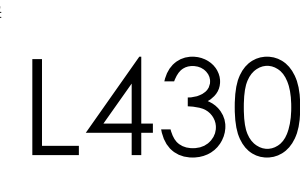
PERENNIALS									
1	2	3	4	5	6	7	8	9	10

359	AMSONIA HUBRICHII	ARKANSAS BLUE-STAR	QUART	24" o.c.	
1285	ASCLEPIAS INCARNATA	SWAMP MILKWEED	PLUG	24" o.c.	

1.004	THALICTRUM MACROSTYLUM	PIEDMONT MEADOW RUE	PLUG	24" o.c.	
-------	------------------------	---------------------	------	----------	--

1. CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL AND ASSOCIATED PLANT LANDSCAPING FOR A PERIOD OF TWO (2) YEARS. THE MAINTENANCE PERIOD

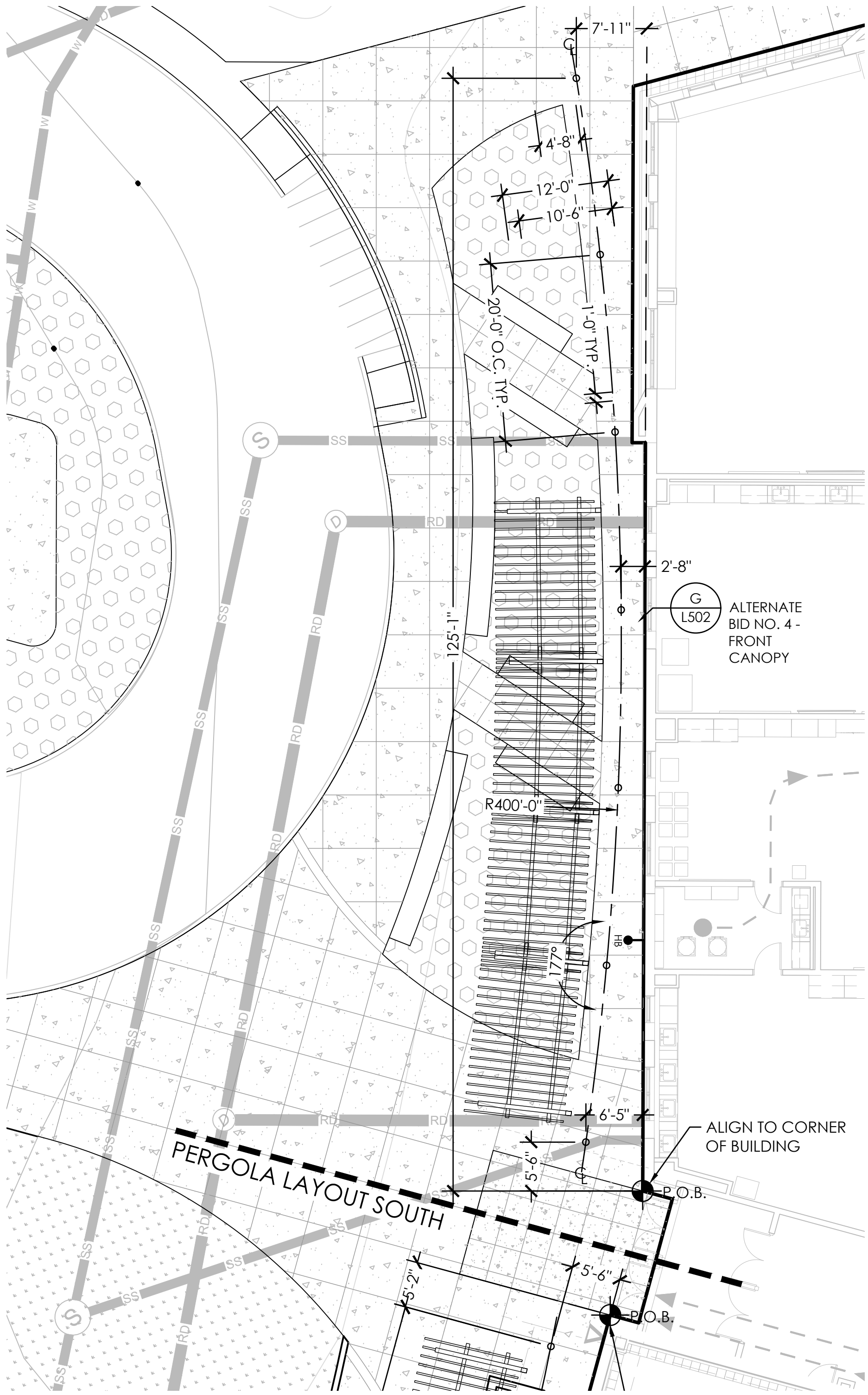
- DIAMETER SHALL BE WRAPPED IN BURLAP OR OTHER APPROVED MATERIAL AND KEPT MOIST AT ALL TIMES.



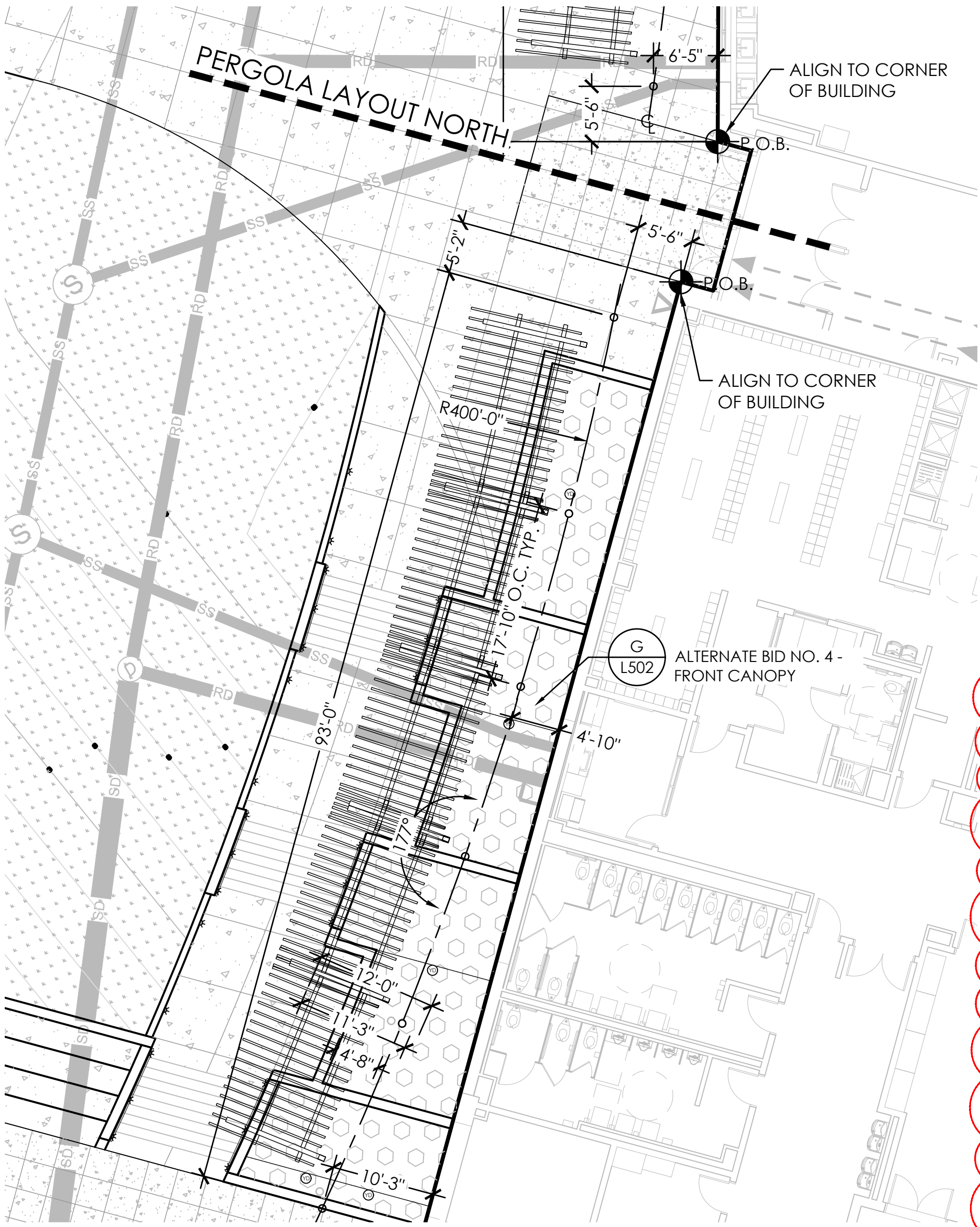
© GRIMM AND PAPER ARCHITECTURE, INC.

© GRIMM AND PARKER ARCHITECTURE, INC.

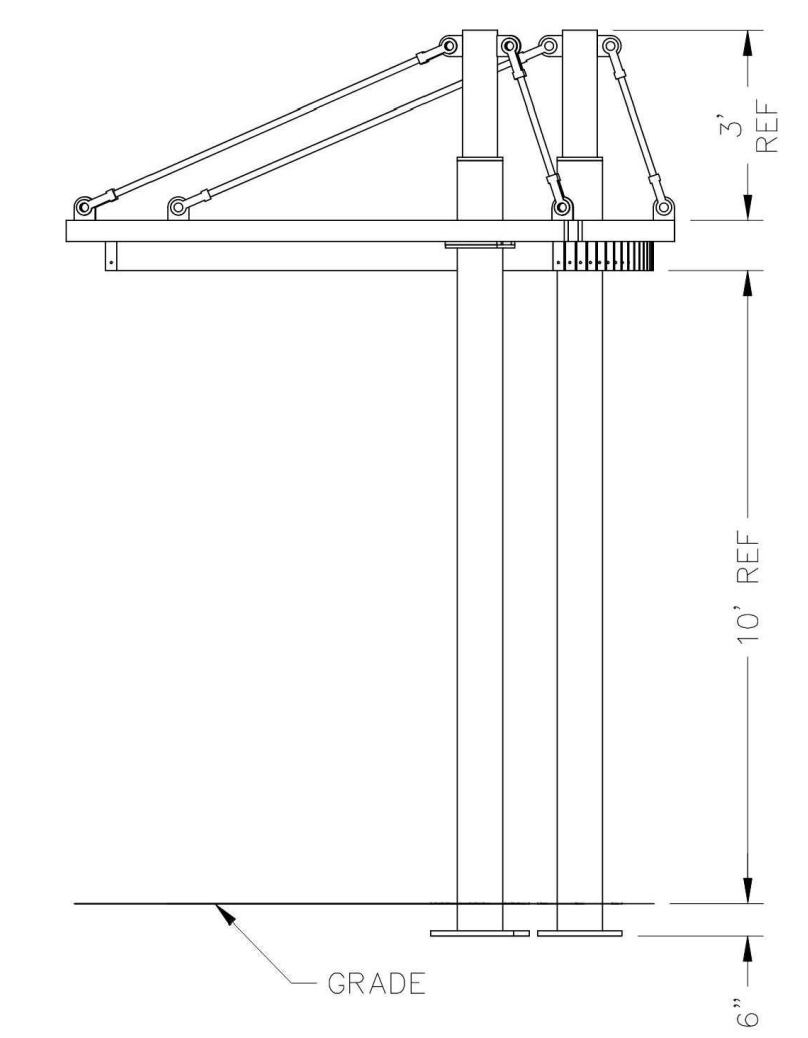




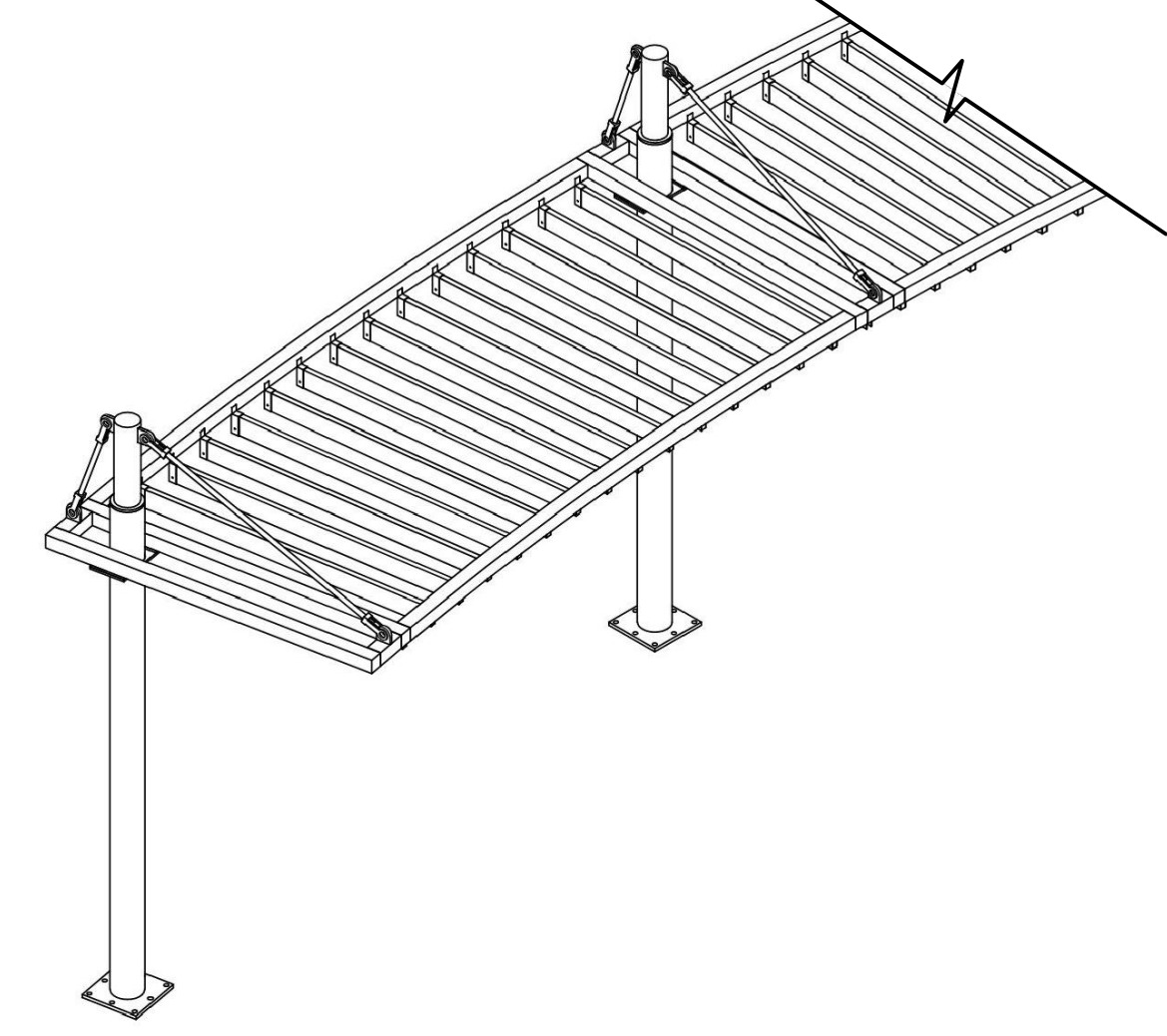
A ALTERNATE BID NO. 4 - FRONT CANOPY
1" = 10'



B FRONT CANOPY ELEVATION
1" = 10'



C ENTRY CANOPY SECTION
N.T.S.



D ENTRY CANOPY PERSPECTIVE
N.T.S.

BRADLEY
SITE DESIGN, INC.
LANDSCAPE ARCHITECTURE

1010 Wisconsin Avenue NW
Suite 620
Washington, DC 20007
P: 202.695.8056
www.bradleysitedesign.com

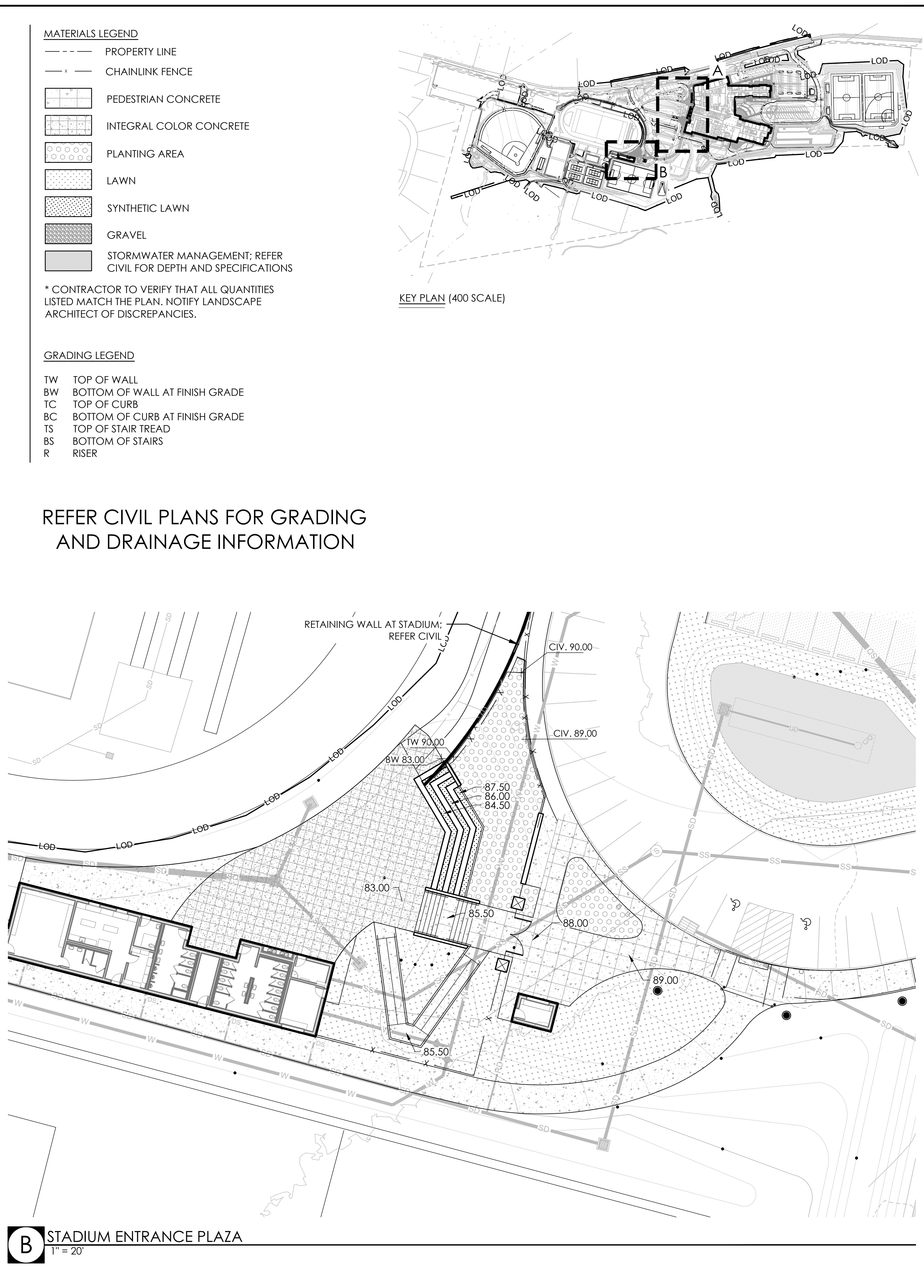
BID SET

#	Date	Revisions
	12.22.2023	BID SET
3	03.25.2024	ADDENDUM #3

$$1/2'' = 1'-0''$$

© GRIMM AND PARKER ARCHITECTURE

© GRIMM AND PAPPER ARCHITECTURE



GRADING LEGEND

TW	TOP OF WALL
BW	BOTTOM OF WALL AT FINISH GRADE
TC	TOP OF CURB
BC	BOTTOM OF CURB AT FINISH GRADE
TS	TOP OF STAIR TREAD
BS	BOTTOM OF STAIRS
R	RISER

REFER CIVIL PLANS FOR GRADING
AND DRAINAGE INFORMATION

KEY PLAN (400 SCALE)



BRADLEY
SITE DESIGN, INC.
LANDSCAPE ARCHITECTURE

1010 Wisconsin Avenue NW
Suite 620
Washington, DC 20007
P: 202.695.8056
www.bradleysitedesign.com

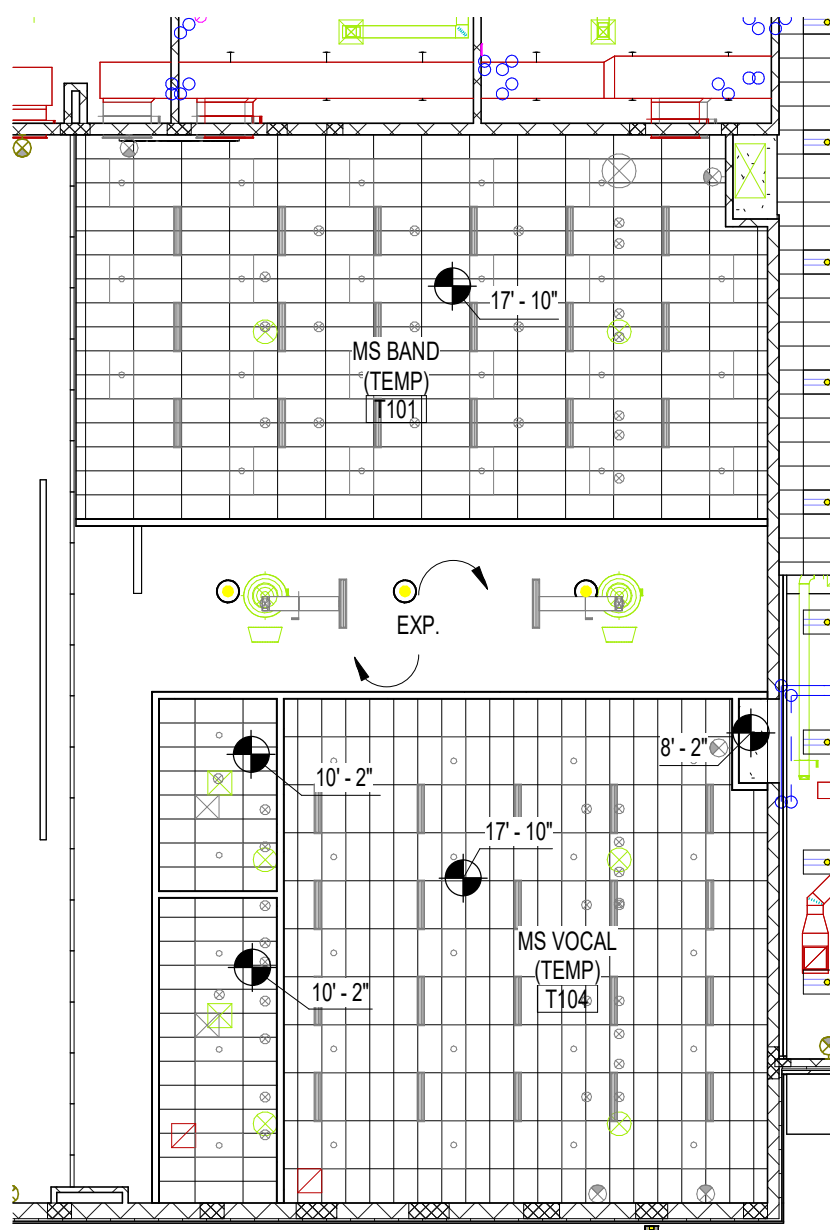
BID SET

[illegible]

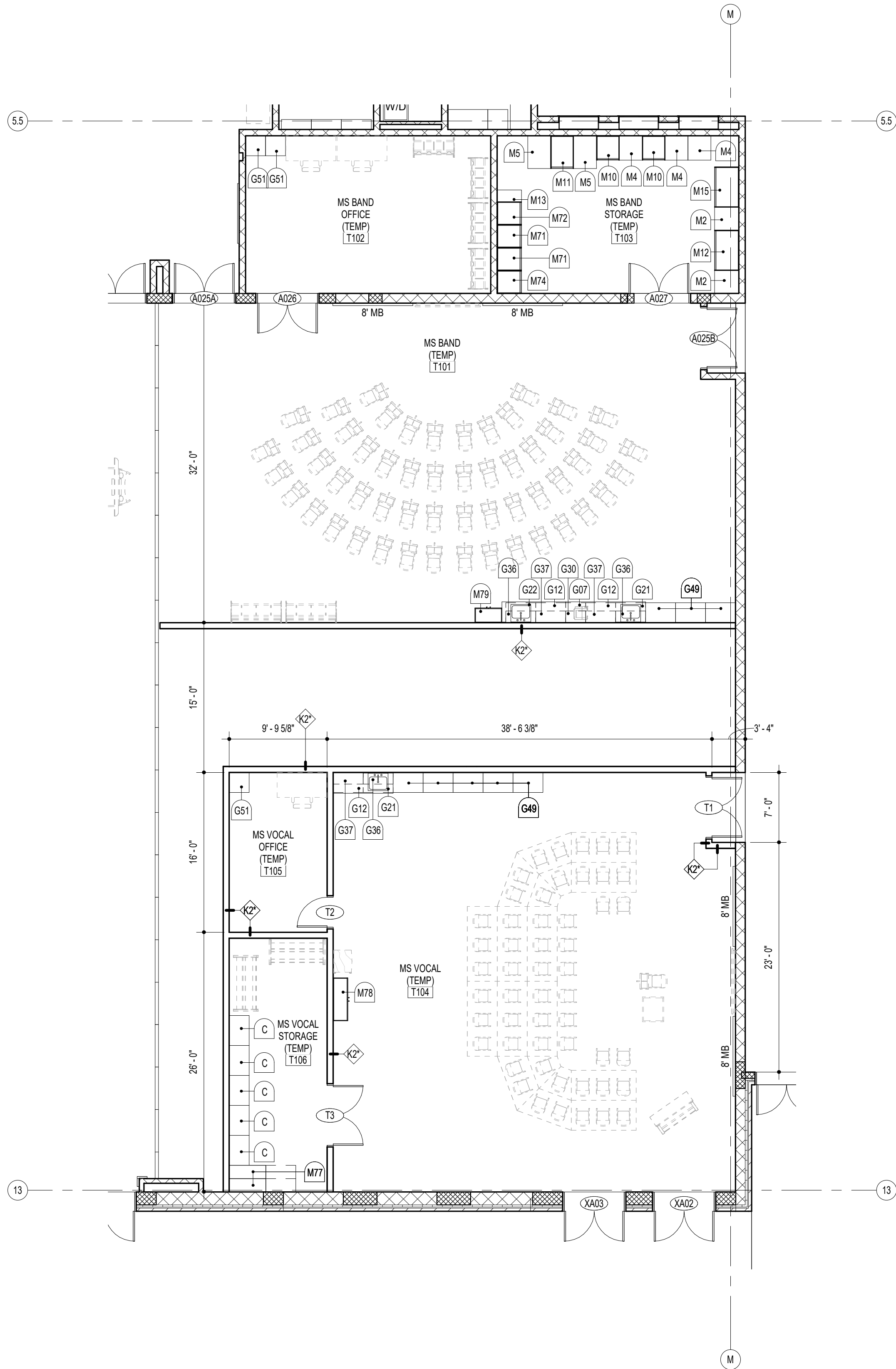
DOOR SCHEDULE - TEMPORARY FIT-OUT													
DOOR NO.	DOOR			FRAME					DOOR LABEL FIRE RATING	HARDWARE SET	REMARKS		
	NOMINAL SIZE	THK.	TYPE	MATL	MATL	TYPE	JAMB	HEAD	SILL				
T1	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM				325	1.2		
T2	3'-0"	7'-0"	1 3/4"	F	SCWD	HM				713			
T3	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM				823	10, 14		

FINISH SCHEDULE - TEMPORARY FIT-OUT									
RM. NO.	NAME	FLR	BASE	A	B	C	D	CLG. MATL.	REMARKS
T101	MS BAND (TEMP)		RTF	RST	PTD	PTD	PTD	PTD	APC1
T102	MS BAND OFFICE (TEMP)		*	*	*	*	*	*	
T103	MS BAND STORAGE (TEMP)		*	*	*	*	*	*	
T104	MS VOCAL (TEMP)		RTF	RST	PTD	PTD	PTD	PTD	APC1
T105	MS VOCAL OFFICE (TEMP)		RTF	RST	PTD	PTD	PTD	PTD	APC1
T106	MS VOCAL STORAGE (TEMP)		RTF	RST	PTD	PTD	PTD	PTD	APC1
T107	MEDIA (TEMP)		*	*	*	*	*	*	
T108	MEDIA STORAGE (TEMP)		RTF	RST	PTD	PTD	PTD	PTD	APC-1
T301	MS ART (TEMP)		RTF	RST	PTD	PTD	PTD	PTD	APC-1/ GYP
T302	MS ART STORAGE (TEMP)		*	*	*	*	*	*	

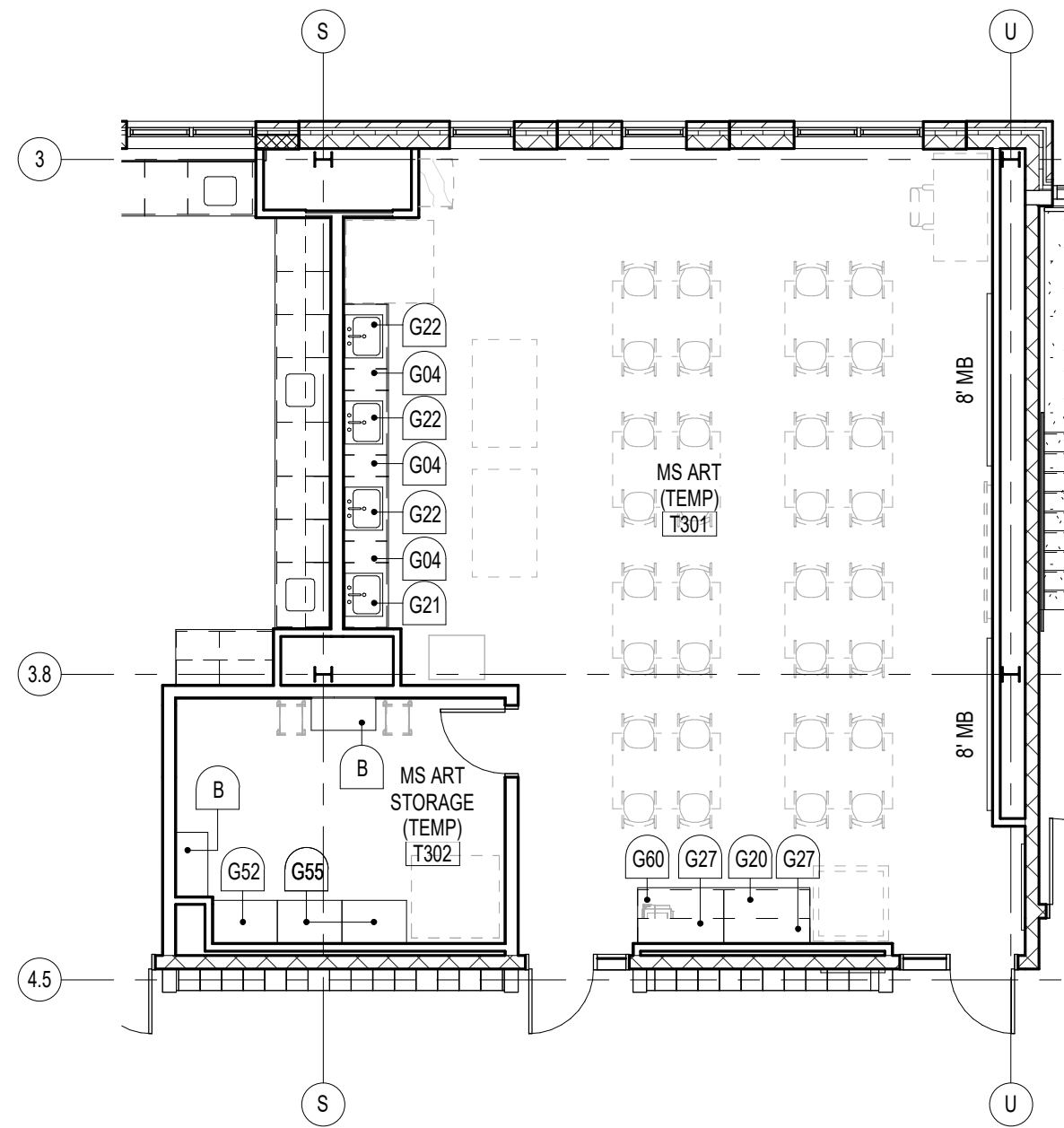
* FINISHES OF TEMPORARY FIT-OUT TO MATCH FINAL PHASE 2 BUILDING CONDITION - SEE FINISH SCHEDULE ON A304



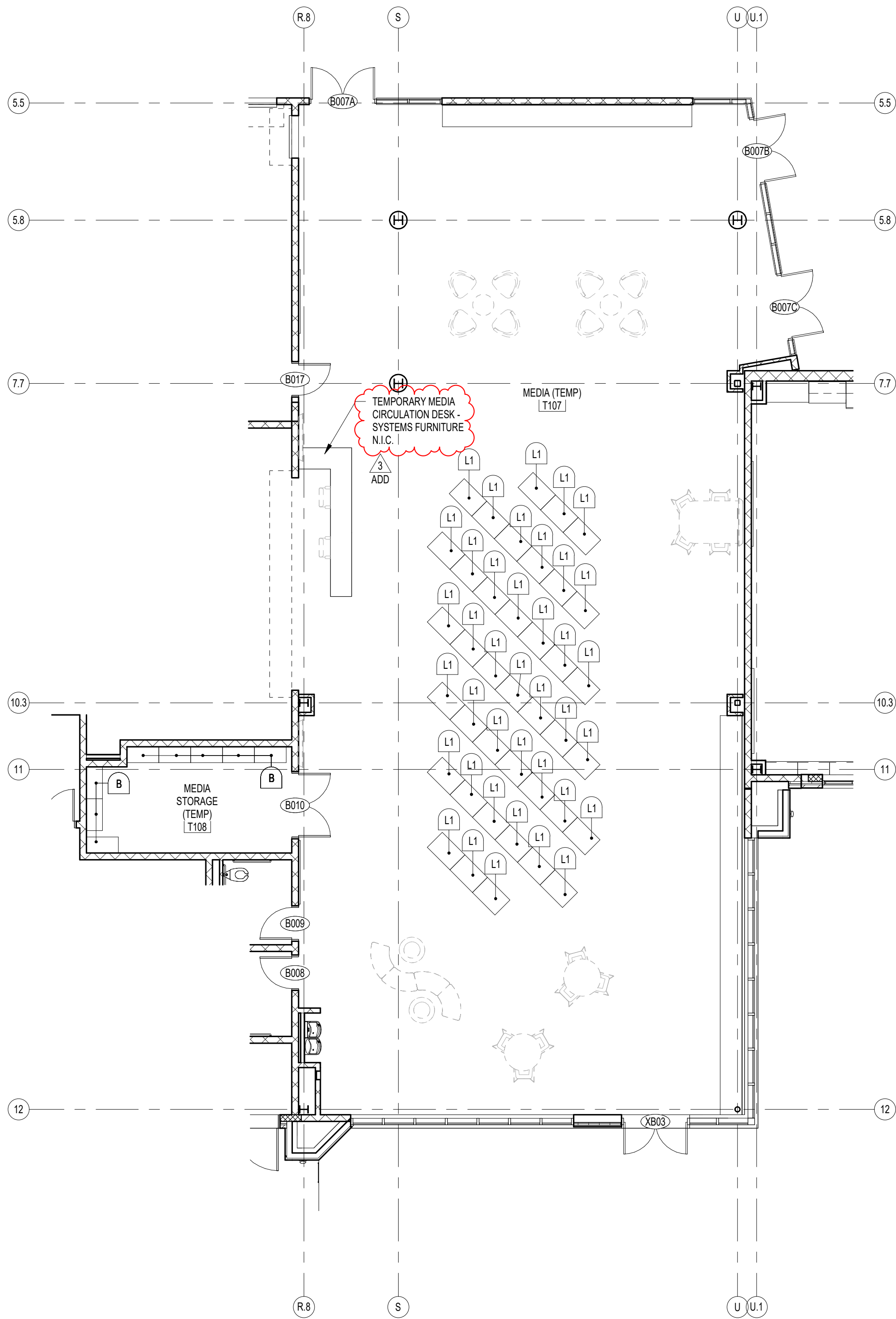
J13 TEMPORARY FITOUT RCP - MS MUSIC
1/16" = 1'-0"



A13 PHASE 1 FITOUT PLAN - MS MUSIC
1/8" = 1'-0"



J7 PHASE 1 FITOUT PLAN - MS ART
1/8" = 1'-0"



A8 PHASE 1 FITOUT PLAN - MS MEDIA
1/8" = 1'-0"

GENERAL PLAN NOTES

- REFER TO SHEET A302 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL.
- TYPICAL CMU INTERIOR PARTITION TO BE TYPE A3 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
- TYPICAL GYPSUM BOARD STUD WALL PARTITION TO BE TYPE K1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
- TYPICAL CMU CHASE WALLS TO BE TYPE A1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
- TYPICAL GYPSUM BOARD CHASE WALLS TO BE TYPE X1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
- UNLESS NOTED OTHERWISE, WALLS MUST EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS MUST BE BUILT TO RESIST THE PASSAGE OF SMOKE.
- DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY, FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
- COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
- FEC - INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE - INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
- UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING TO CONTINUE OVER THE DOOR OR OPENING.
- PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGRAMMATIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.
- REFER TO SHEETS A001 THROUGH A004 FOR CODE STUDY.
- REFER TO SHEET A306 FOR TYPICAL DOOR NOTES. REFER TO SHEET A304 FOR TYPICAL FINISH NOTES.
- REFER TO SHEET A000 FOR FURNITURE AND EQUIPMENT SCHEDULES.
- REFER TO SHEET A501 FOR TOILET PLAN KEY.
- ALL DIMENSIONS SHOWN HERE ARE TO BE VERIFIED IN THE FIELD.

RCP NOTES

GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

- REFER TO SHEET A700 FOR TYPICAL CEILING DETAILS AND SHEET A700A FOR RCP LEGEND.
- REFER TO ELECTRICAL DRAWINGS FOR LIGHT PATTERN AND EXIT LIGHT LOCATIONS. NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO SHOP DRAWINGS.
- ALL WALLS SHOWN EXTEND TO THE STRUCTURAL DECK (SEE WALL TYPES) U.O.N. CHASE WALLS AND LOCKER WING WALLS TO EXTEND 4" MINIMUM ABOVE THE CEILING.
- REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ITEMS NOT SHOWN ON CEILING PLAN. GRILLES, SPEAKERS, SPRINKLERS, HEAT & SMOKE DETECTORS, TO BE CENTERED IN TILES UNLESS NOTED OTHERWISE.
- ALL BULKHEAD DIMENSIONS ARE FROM FINISH FACE OF WALL OR BULKHEAD TO FINISH FACE OF BULKHEAD.
- PROVIDE 1/2" REVEALS BETWEEN DISSIMILAR MATERIALS ON THE SAME PLANE AT THE CEILINGS.
- IN AREAS OF EXPOSED CEILINGS, PAINT EXPOSED STRUCTURE, UNDERSIDE OF DECK, SPRINKLER PIPING, CONDUIT AND ALL MISCELLANEOUS OVERHEAD ITEMS. COLORS TO BE SELECTED BY ARCHITECT.
- IN AREAS WITH EXPOSED CEILING, WHEREVER POSSIBLE, ALL EXPOSED CONDUIT, PIPING AND OTHER SIMILAR ELEMENTS TO BE INSTALLED TIGHT TO DECK AND ALONG STRUCTURAL MEMBERS WITH 90-DEGREE TURNS.

NOTE: SEE A800 FOR CASEWORK AND EQUIPMENT SCHEDULES. QUANTITIES SHOWN IN TEMPORARY CONDITIONS DRAWINGS ARE TO BE INCLUDED IN FINAL CONDITIONS, AND SHALL BE RELOCATED TO FINAL PHASE 2 BUILDING LOCATIONS U.O.N.

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000



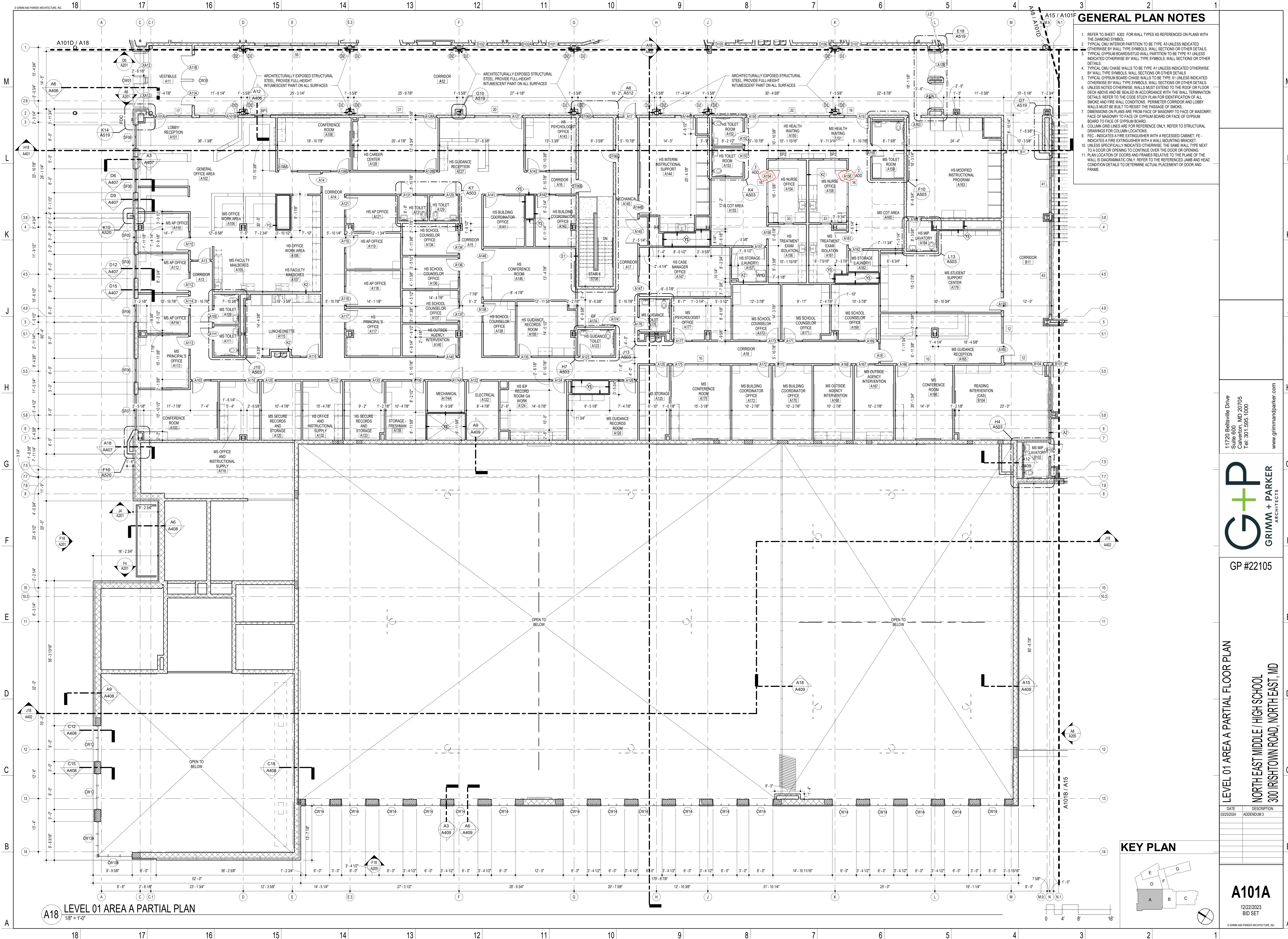
GP #22105

PHASE 1 TEMPORARY CONDITIONS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

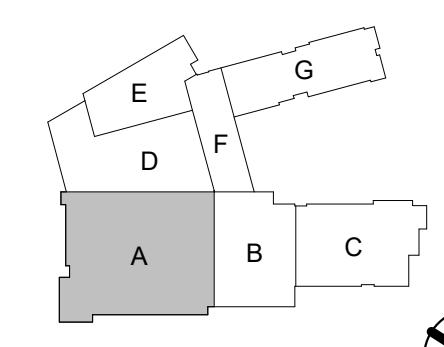
A012

12/22/2023
BID SET



- ### GENERAL PLAN NOTES
1. REFER TO SHEET A302 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL.
 2. TYPICAL CMU INTERIOR PARTITION TO BE TYPE A3 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
 3. TYPICAL GYPSUM BOARD STUD WALL PARTITION TO BE TYPE K1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
 4. TYPICAL CMU CHASE WALLS TO BE TYPE A1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
 5. TYPICAL GYPSUM BOARD CHASE WALLS TO BE TYPE X1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
 6. UNLESS NOTED OTHERWISE, WALLS MUST EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS MUST BE BUILT TO RESIST THE PASSAGE OF SMOKE.
 7. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY, FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
 8. COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
 9. FE- INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE- INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
 10. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING TO CONTINUE OVER THE DOOR OR OPENING.
 11. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGRAMMATIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.

KEY PLAN



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com



GP #22105

LEVEL 01 AREA A PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A101A
12/22/2023
BID SET

GENERAL PLAN NOTES

1. REFER TO SHEET A302 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL.
2. TYPICAL CMU INTERIOR PARTITION TO BE TYPE A3 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
3. TYPICAL GYPSUM BOARD STUD WALL PARTITION TO BE TYPE K1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
4. TYPICAL CMU CHASE WALLS TO BE TYPE A1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
5. TYPICAL GYPSUM BOARD CHASE WALLS TO BE TYPE X1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
6. UNLESS NOTED OTHERWISE, WALLS MUST EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS MUST BE BUILT TO RESIST THE PASSAGE OF SMOKE.
7. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY. FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
8. COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
9. FEC - INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE - INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
10. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING TO CONTINUE OVER THE DOOR OR OPENING.
11. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGNOSTIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.

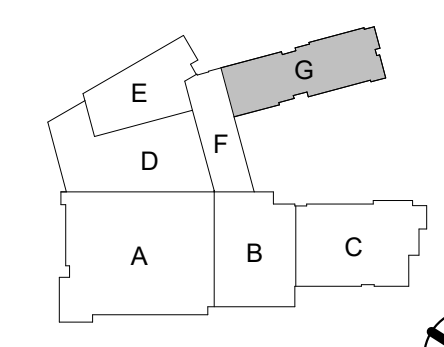
M
L
K
J
H
G
F
E
D
C
B
A

M
L
K
J
H
G
F
E
D
C
B
A



A18 LEVEL 01 AREA G PARTIAL PLAN
1/8" = 1'-0"

KEY PLAN



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com



GP #22105

LEVEL 01 AREA G PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A101G
12/22/2023
BID SET

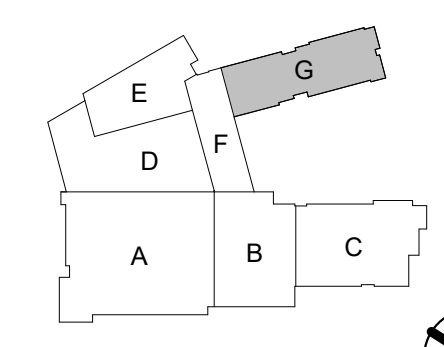
GENERAL PLAN NOTES

1. REFER TO SHEET A302 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL.
2. TYPICAL CMU INTERIOR PARTITION TO BE TYPE A3 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
3. TYPICAL GYPSUM BOARD STUD WALL PARTITION TO BE TYPE K1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
4. TYPICAL CMU CHASE WALLS TO BE TYPE A1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
5. TYPICAL GYPSUM BOARD CHASE WALLS TO BE TYPE X1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
6. UNLESS NOTED OTHERWISE, WALLS MUST EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS MUST BE BUILT TO RESIST THE PASSAGE OF SMOKE.
7. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY. FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
8. COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
9. FEC - INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE - INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
10. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING TO CONTINUE OVER THE DOOR OR OPENING.
11. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGRAMMATIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.



A18 LEVEL 02 AREA G PARTIAL PLAN
1/8" = 1'-0"

KEY PLAN



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com



GP #22105

LEVEL 02 AREA G PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

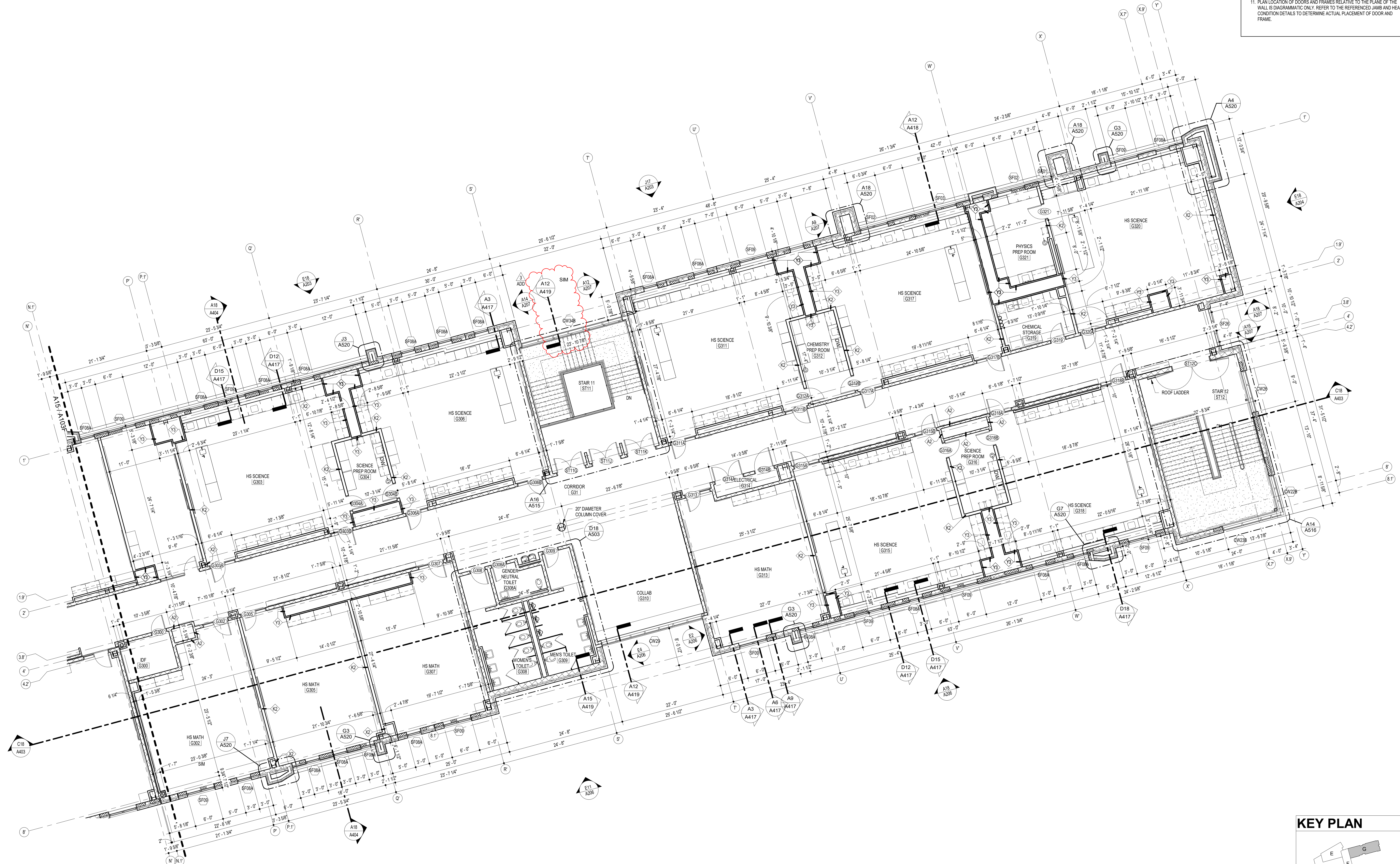
A102G
12/22/2023
BID SET

GENERAL PLAN NOTES

1. REFER TO SHEET A302 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL.
2. TYPICAL CMU INTERIOR PARTITION TO BE TYPE A3 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
3. TYPICAL GYPSUM BOARD STUD WALL PARTITION TO BE TYPE K1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
4. TYPICAL CMU CHASE WALLS TO BE TYPE A1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
5. TYPICAL GYPSUM BOARD CHASE WALLS TO BE TYPE X1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
6. UNLESS NOTED OTHERWISE, WALLS MUST EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS MUST BE BUILT TO RESIST THE PASSAGE OF SMOKE.
7. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY, FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
8. COLUMN GRID LINES ARE FOR REFERENCE ONLY, REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
9. FEC - INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET, FE - INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
10. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING TO CONTINUE OVER THE DOOR OR OPENING.
11. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGNOSTIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.

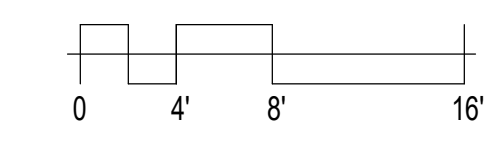
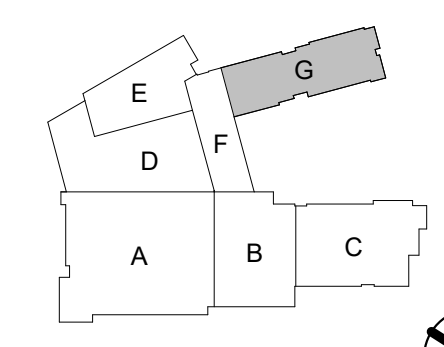
M
L
K
J
H
G
F
E
D
C
B
A

M
L
K
J
H
G
F
E
D
C
B
A



A18 LEVEL 03 AREA G PARTIAL PLAN
1/8" = 1'-0"

KEY PLAN



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000



GP #22105

LEVEL 03 AREA G PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A103G
12/22/2023
BID SET

</

	11				10				9				8				7				6			
	DOOR								FRAME									DOOR LABEL FIRE RATING	HARDWARE SET					
	NOMINAL SIZE												SECTIONS											
DOOR #	WIDTH	HEIGHT	THK.	TYPE	MATL	MATL	TYPE	JAMB	HEAD	SILL														
G121B	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					816	1,11							
G122	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					523	10							
G123	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					811	1							
G124	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					816	1,11,14							
G125	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					816	1,11,14							
G126	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					523	10							
G127A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	S1					523								
G127B	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					523								
G128A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	S1					515								
G128B	3'-0"	7'-0"	1 3/4"	NG	SCWD	HM	01	J1	H1	H1	S1					515								
G129	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					816	1,11,14							
G130	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					523	10							
G131	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					815	1,22,23							
G201	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G202	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G203	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G204	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G205	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G206	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G207	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G208	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S4					210	1,6,13							
G208A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S4					213	1,9							
G209	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S4					110	1,6,13							
G211	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G211A	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					825	1,10,11,14							
G211B	4'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					825	1,10,11,14							
G212	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G213	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G214	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G215	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G216	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G217	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G218	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G219	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G300	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					815	1,22,23							
G301	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G302	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G303A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					45 MIN.	511	1						
G303B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02	J1/US	H1	H1	-					45 MIN.	511	1						
G304A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J2	H2	H2	-					713								
G304B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J2	H2	H2	-					713								
G305	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G306A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02	J1/US	H1	H1	-					45 MIN.	511	1						
G306B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					45 MIN.	511	1						
G307	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					515								
G308	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S4					210	1,6,13							
G308A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S4					213	1,9							
G309	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S4					210	1,6,13							
G311A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					45 MIN.	511	1						
G311B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02	J1/US	H1	H1	-					45 MIN.	511	1						
G312A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J2	H2	H2	-					713								
G312B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J2	H2	H2	-					713								
G313	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					825								
G314A	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					515	1,10,11,14							
G314B	4'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					825	1,10,11,14							
G315A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					45 MIN.	511	1						
G315B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02	J1/US	H1	H1	-					45 MIN.	511	1						
G316A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J2	H2	H2	-					713								
G316B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J2	H2	H2	-					713								
G317A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02	J1/US	H1	H1	-					45 MIN.	511	1						
G317B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02	J1/US	H1	H1	-					45 MIN.	511	1						
G318A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02	J1/US	H1	H1	-					45 MIN.	511	1						
G318B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					45 MIN.	511	1						
G319	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S3					45 MIN.	811	1						
G320A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	03	J1/US	H1	H1	-					45 MIN.	511	1						
G321	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J2	H2	H2	-					713								
ST01A	7'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J6	H6	H6	-					90 MIN.	324	1,2,5,14						
ST01B	7'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J6	H6	H6	-					90 MIN.	324	1,2,5,14						
ST01C	7'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J6	H6	H6	-					90 MIN.	324	1,2,5,14						
ST02A	8'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J6	H6	H6	-					90 MIN.	324	1,2,5,14						
ST02B	8'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J6	H6	H6	-					90 MIN.	324	1,2,5,14						
ST02C	8'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J6	H6	H6	-					90 MIN.	324	1,2,5,14						
ST03A	8'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	S1					90 MIN.	324	1,2,5,14						
ST03B	8'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	S1					90 MIN.	324	1,2,5,14						
ST03C	8'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	S1					90 MIN.	324	1,2,5,14						
ST05	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	01	J2	H2	H2	-					345	1,2							
ST06A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	-					90 MIN.	313	1,2						
ST06B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	-					90 MIN.	116	1						
ST06C	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	-					90 MIN.	116	1						
ST06D	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					90 MIN.	314	1,2, EXIT ONLY						
ST07A	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					90 MIN.	344	1,2,11						
ST07B	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					90 MIN.	343	1,2,11						
ST07C	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1 SIM					90 MIN.	816	1,11						
ST08A	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					90 MIN.	344	1,2,11						
ST08B	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	S1					90 MIN.	343	1,11						
ST10A	8'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST10B	8'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST10C	8'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST11A	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST11B	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST11C	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST11D	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST11E	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST11F	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST11G	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324	1,2,5,14						
ST11J	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	H1	-					90 MIN.	324</							

TYPICAL DETAILS

DOORS NOT LISTED ON THE SCHEDULE TO HAVE THE TYPICAL FINISHES LISTED BELOW.

DOOR:	FRAME:
WIDTH: 3'-0"	MATERIAL: HM
HEIGHT: 7'-0"	TYPE: 1
THICKNESS: 1-3/4"	JAMB: J1
TYPE: F	HEAD: H1
MATERIAL: SCWD	SILL: NONE
DOOR LABEL: NONE	

TYPICAL DOOR NOTES

1. COORDINATE AND PROVIDE HARDWARE AS DETAILED IN THE SPECIFICATIONS OR, IF NOT SPECIFIED, PROVIDE HARDWARE OF EQUAL QUALITY TO THAT SPECIFIED, AND MOST SIMILAR IN FUNCTION TO THAT OF DOOR/REQUIRED FOR DOORS TO BE USED.
2. PROVIDE BRUSHED STAINLESS STEEL, KICK PLATES ON PUSH SIDE OF DOORS WITH PUSH BARS OR CLOSER DEVICES. REFER TO HARDWARE SPECIFICATIONS FOR KICK PLATE DIMENSIONS.
3. PROVIDE EXPOSED HARDWARE WITH BRUSHED-IN PAINT AND "SILVER" METALLIC IN COLOR (ALUMINUM, CHROME, OR STEEL).
4. WHEN EXPONED CLEAR FINISHED WOOD DOORS ARE PAINTED, TAKE CARE TO SELECT MATCHING GRAY TONE AND COLOR TO MATCH THE FINISH OF THE DOOR.
5. IF CONFLICT EXISTS BETWEEN DOOR RATINGS AS SCHEDULED AND WALL/PARTITION TYPE FIRE RATINGS AS SHOWN ON PLANS, PROVIDE DOORS WITH THE GREATER FIRE RATING OF THE TWO.
6. VERIFY ALL DIMENSIONS AND CLEARANCES, AND COORDINATE UNDERCUTTING TO CLEAR ADJACENT FLOOR MATERIAL.
7. IF A DISCREPANCY EXISTS BETWEEN THE DOOR SCHEDULE REMARKS AND THE HARDWARE SCHEDULE IN THE SPECIFICATIONS, PROVIDE THE HARDWARE NEEDED TO MEET THE MOST STRINGENT OF THE REQUIREMENTS.
8. PROVIDE CONTINUOUS WEATHERSTRIPPING AND DOOR BOTTOM SALS AT EXTERIOR DOORS AS SPECIFIED.

DOOR UNDERCUTS

PROVIDE THE FOLLOWING UNDERCUTS AT ALL DOORS

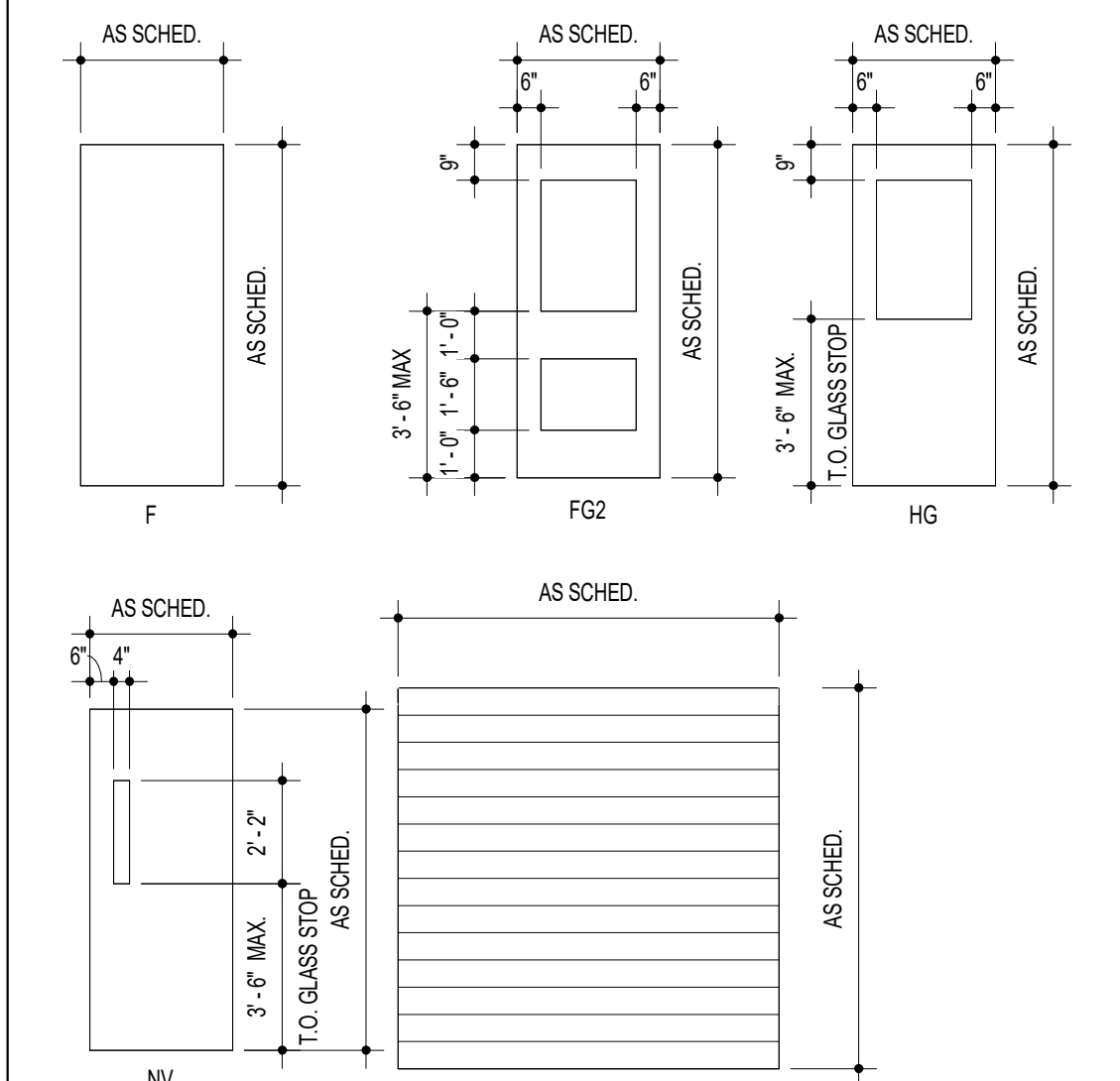
- EXTERIOR DOORS WITH THRESHOLDS: 1/8" ABOVE THRESHOLD HEIGHT
- DOOR WITH AUTOMATIC DOOR BOTTOMS: AMOUNT REQUIRED BY DOOR BOTTOM MFR
- DOORS WITH THRESHOLD AND AUTOMATIC DOOR BOTTOM: HEIGHT OF THRESHOLD AND AMOUNT REQUIRED BY DOOR BOTTOM MFR
- ALL OTHER DOORS: 5/8" ABOVE FINISH FLOOR

NOTES FOR REMARKS COLUMN

NOTE: NOT ALL NOTES MAY BE USED ON THIS PROJECT. SEE SPECIFICATIONS FOR ADDITIONAL DOOR INFORMATION.
REFERENCE SPECIFICATIONS FOR DETAILED HARDWARE REQUIREMENTS.

2. PROVIDE A DUAL COMPLIANT CLOSER (ONE CLOSER FOR EACH DOOR OF PAIR)
3. PROVIDE PANIC HARDWARE
4. PROVIDE ALARMED PANIC HARDWARE
5. PROVIDE A DUAL AUTOMATIC SWING DOOR OPERATOR WITH PUSH BUTTON CONTROLS AND ASSOCIATED SIGNAGE
6. PROVIDE DOORS WITH ELECTROMAGNETIC HOLD OPEN DEVICES - CONNECT TO FIRE ALARM SYSTEM TO CLOSE ON ACTIVATION - SEE ELECTRICAL DRAWINGS
7. PROVIDE WITH HOLD OPEN RELEASE IN CLOSER
8. PROVIDE WEATHER STRIPPING ON ALL SIDES, TOP AND BOTTOM OF DOOR
9. PROVIDE DOOR WITH INSULATED CORE
10. PROVIDE HARDWARE WITH PUSH/ PULL SET
11. PROVIDE FLUSH BOLTS ON INACTIVE LEAF
12. PROVIDE SEALS SOUND ON PUSH AND SIDES WITH DROP SEAL AT DOOR BOTTOM
13. PROVIDE SOUND RATED DOOR SYSTEM COMPLETE WITH ALL ASSOCIATED HARDWARE
14. PROVIDE WITH PUSH / PULL OPERATION
15. PROVIDE HARDWARE SO DOORS CAN OPEN 180 DEGREES
16. DOUBLE EGRESS DOOR
17. INSULATED COILING DOOR
18. (NOT USED)
19. DOUBLE ACTING DOOR FUNCTION
20. PROVIDE PACKAGE DOOR SYSTEM
21. COILING SECURITY GRILLE
22. PROVIDE WITH MECHANICAL PUSH BUTTON COMBINATION LOCK
23. PROVIDE WITH CARD READER AND ASSOCIATED HARDWARE
24. PROVIDE WITH MAGNETIC HOLD OPEN DEVICES - CONNECT TO FIRE ALARM SYSTEM TO OPEN ON ACTIVATION
25. SECURITY SYSTEM DOOR SWITCH AT THE RELEASE - COORDINATE WITH ELECTRICAL
26. PROVIDE WITH HOLD OPEN RELEASE BUTTON - CONNECT TO FIRE ALARM SYSTEM TO OPEN ON ACTIVATION
27. ACTIVATION - SEE ELECTRICAL DRAWINGS

DOOR TYPES



NOTE: (UNLESS OTHERWISE NOTED)

1. ALL GLASS IN EXTERIOR DOORS TO BE G-10
2. ALL GLASS IN INTERIOR DOORS TO BE G-2
3. ALL GLASS IN RATED DOORS TO BE G-9

Suite 600
Calverton, MD 20705
Tel: 301.595.1000

Q

--	--

www.grimmandparker.com



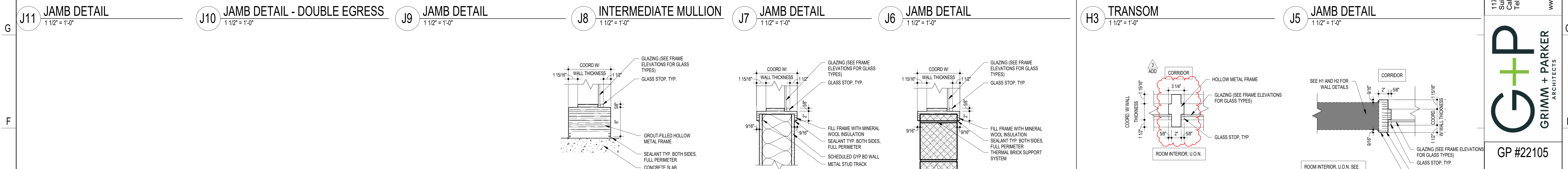
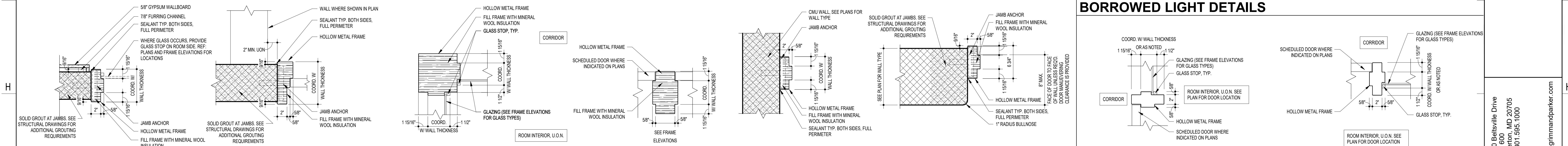
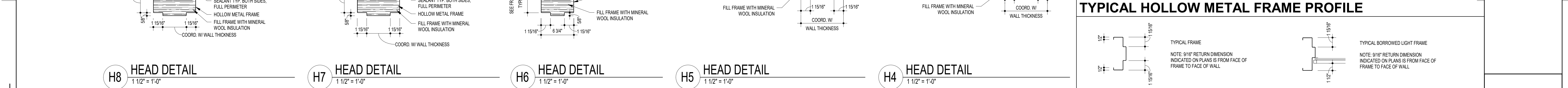
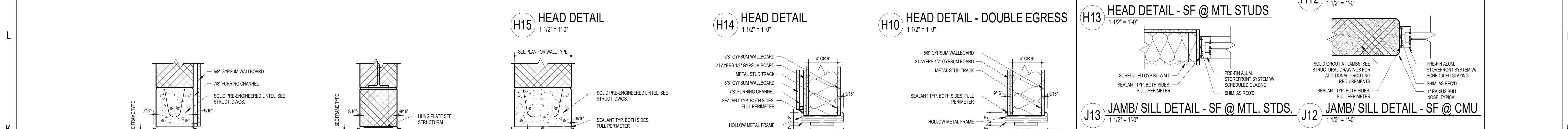
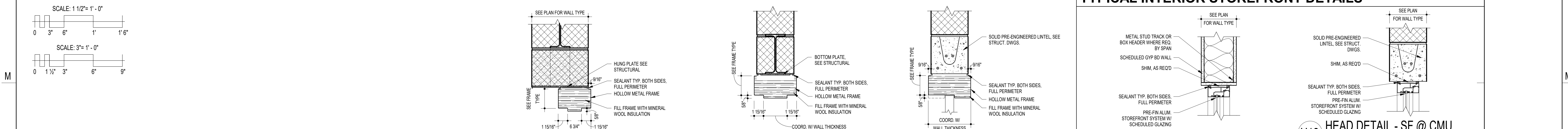
GP #22105

NORTH EAST MIDDLE / HIGH SCHOOL
3300 RIVINGTON ROAD, NORTHEAST, MD

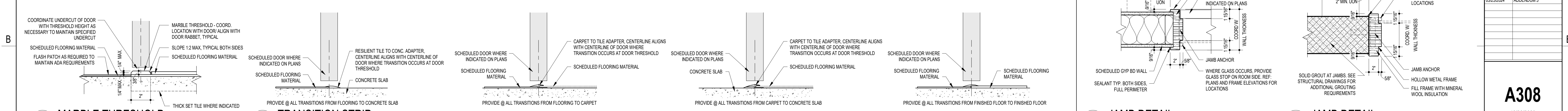
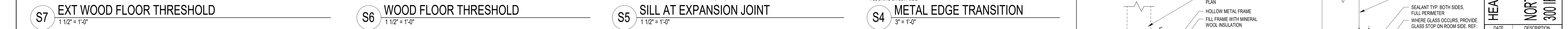
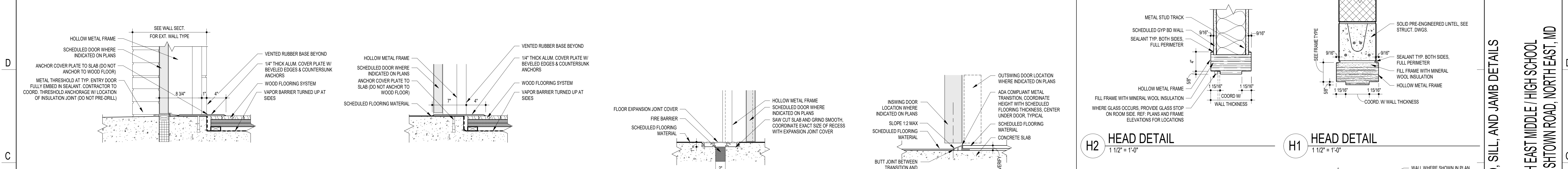
E	DESCRIPTION
24	ADDENDUM 1
24	ADDENDUM 3

A307

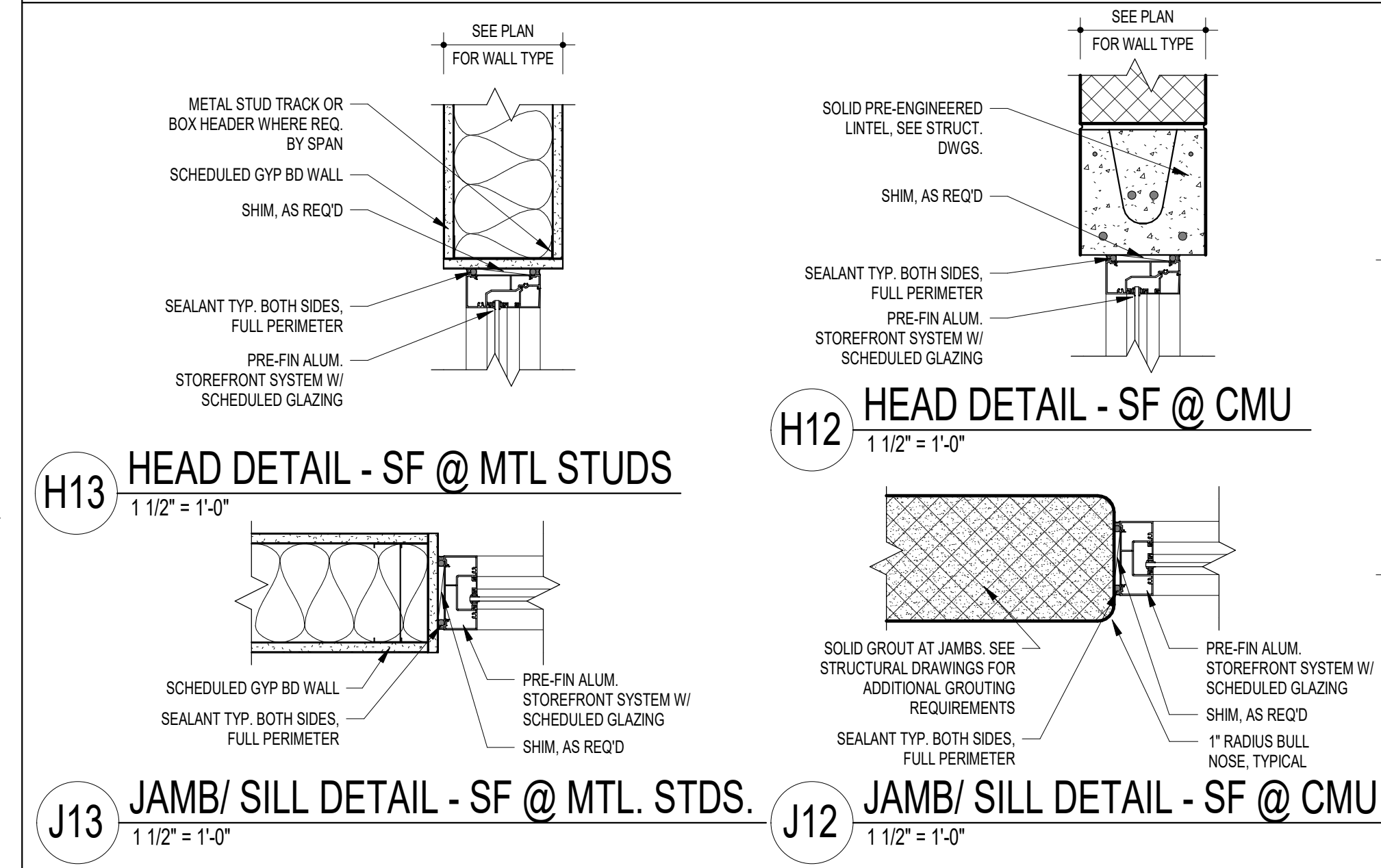
12/22/202
BID SET



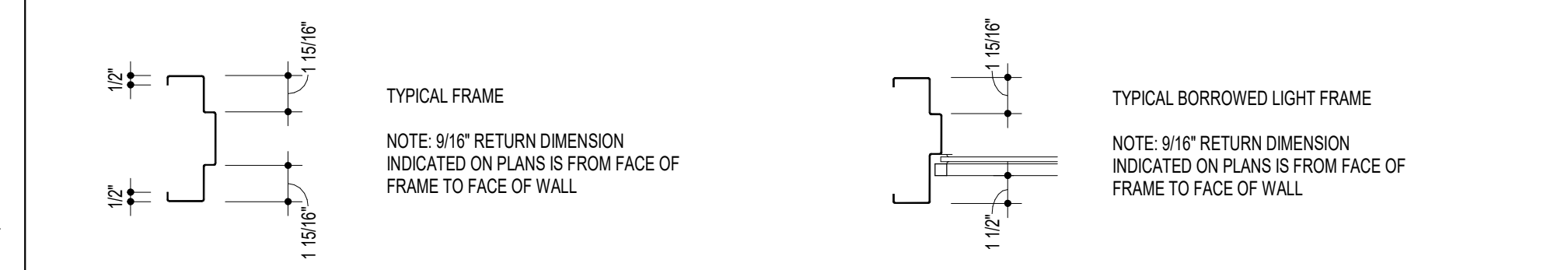
TYPICAL INTERIOR HM FRAME DETAILS



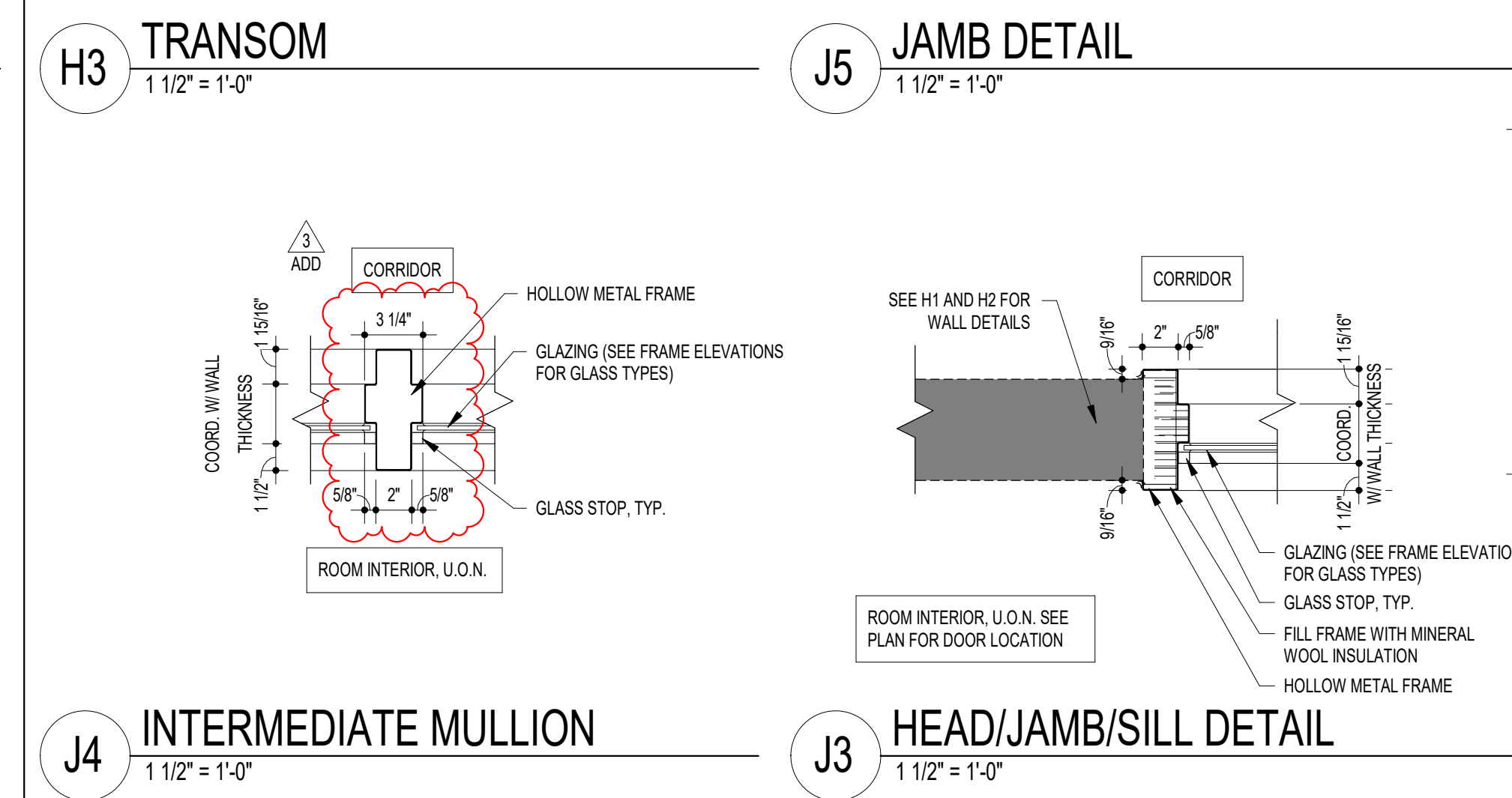
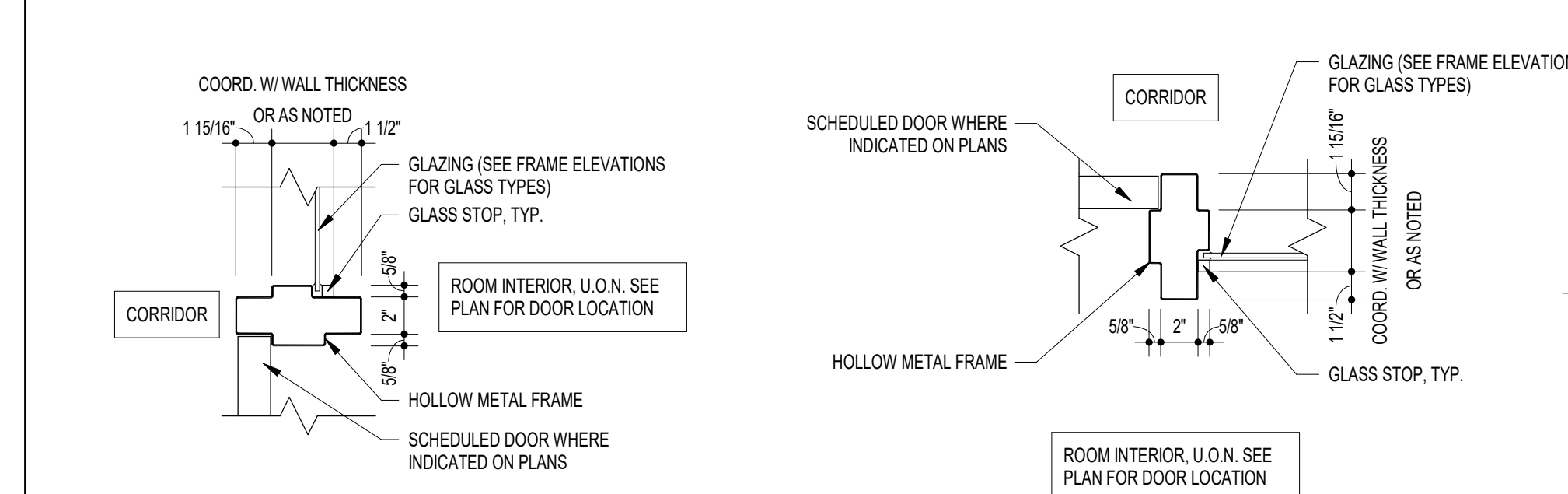
TYPICAL INTERIOR STOREFRONT DETAILS



TYPICAL HOLLOW METAL FRAME PROFILE

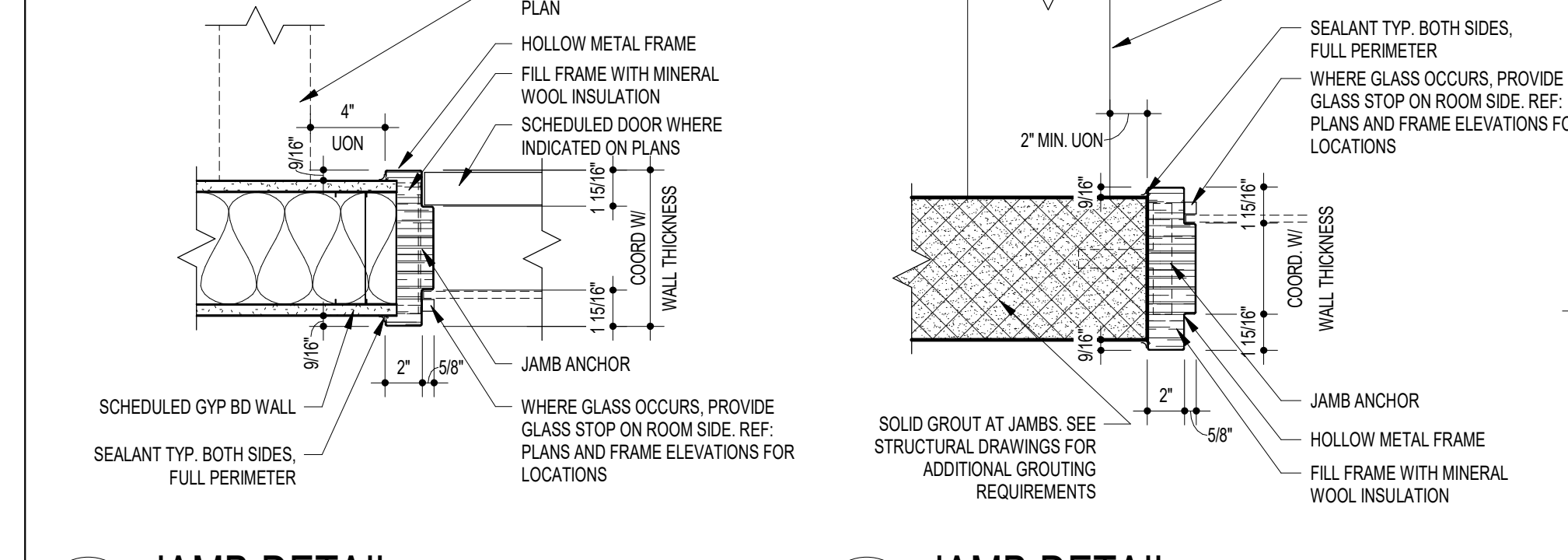
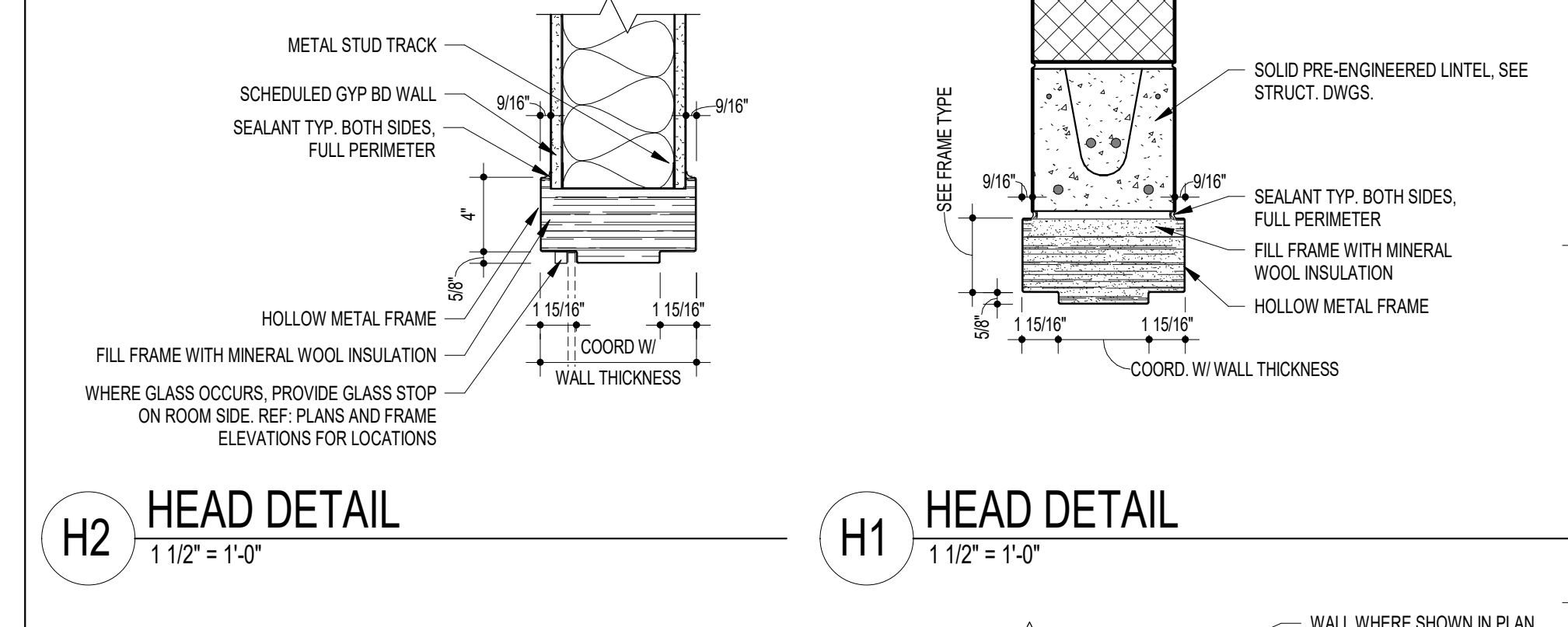


BORROWED LIGHT DETAILS



TYPICAL INTERIOR HM FRAME DETAILS

SEE DETAIL J3 FOR FRAMES WITH GLASS LITES



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

GRIMM + PARKER
ARCHITECTS

GP #22105

HEAD, SILL, AND JAMB DETAILS

NORTH EAST MIDDLE / HIGH SCHOOL

300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A308

12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.



STOREFRONT AND CURTAINWALL NOTES

- NOTES APPLY TO ALL FRAME ELEVATION SHEETS
1. VERIFY ROUGH OPENINGS, INCLUDING BUT NOT LIMITED TO STRUCTURAL LINTEL LOCATIONS, PRIOR TO FABRICATION.
 2. COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL WINDOWS, STOREFRONT AND CURTAINWALL INCLUDING SUBFRAMES, AS REQUIRED.
 3. CONTINUOUSLY SEAL ALL SIDES OF STOREFRONT AND SUBFRAMES ABUTTING DISSIMILAR MATERIALS AT JAMBS, HEADS, AND SILLS, TYPICALLY.
 4. PROVIDE APPROPRIATE ANCHORAGE SYSTEM FOR ALL CONDITIONS. PROVIDE SUBFRAMING AS SHOWN ON DETAILS OR SPECIFIED.
 5. PROVIDE FOR THERMAL EXPANSION AT ALL FRAMING SYSTEMS.
 6. COORDINATE FRAMES WITH PLAN WHEN MORE THAN ONE CONSTRUCTION DETAIL IS REFERENCED.
 7. AS REQUIRED FOR DESIGN LOADING, MANUFACTURER TO PROVIDE MILLON REINFORCING AND VERTICAL EXTENSIONS UP TO STRUCTURE ABOVE (ATTACHMENT TO STRUCTURE BY MANUFACTURER). SEE SECTIONS AND DETAILS FOR ADDITIONAL WORK RELATING TO FRAMING SYSTEM.
 8. IDENTIFICATION OF OPENING TYPES AS CURTAINWALL OR STOREFRONT IS BASED ON SYSTEM REQUIREMENTS OF A PARTICULAR MANUFACTURER. CONTRACTOR IS TO DETERMINE BEST APPLICATION OF SUBMITTED MANUFACTURER AND SYSTEM BASED ON PERFORMANCE REQUIREMENTS, SIZE OF OPENING, AND INSTALLATION CONDITION.
 9. CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL STOREFRONT, INCLUDING SUBFRAMES, AS REQUIRED. CONTRACTOR MUST VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS, INCLUDING DETAILS SHOWN ON OTHER SHEETS, PRIOR TO FABRICATION.
 10. PROVIDE HORIZONTAL BLINDS AT ALL INTERIOR AND EXTERIOR OPENINGS INCLUDING DOOR SIDELITES, BUT EXCLUDING DOOR LITES UNLESS OTHERWISE NOTED.
 11. COORDINATE FRAMING SYSTEMS WITH AIR BARRIER TRANSITION MEMBRANE SYSTEM AND MANUFACTURER-RECOMMENDED DETAILS FOR A COMPLETE AIR BARRIER SYSTEM.

HOLLOW METAL FRAME NOTES

1. VERIFY ALL ROUGH OPENINGS WITH HOLLOW METAL FRAME SIZES.
2. CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL HOLLOW METAL FRAMES. VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS, INCLUDING DETAILS SHOWN ON OTHER SHEETS.
3. CONTINUOUSLY SEAL ALL SIDES OF HOLLOW METAL FRAMES ABUTTING DISSIMILAR MATERIALS AT JAMBS, HEADS, AND SILLS, TYPICALLY (EXCEPT AT DOOR SILLS UNLESS OTHERWISE NOTED).
4. TYPICAL WIDTH OF RETURNS ON HOLLOW METAL FRAMES IS 1 1/8" AT HEADS, JAMBS, AND SILLS. CENTER SECTION OF FRAME VARIES IN WIDTH WITH RESPECTIVE WALL TYPE. SEE PLANS.
5. PROVIDE HORIZONTAL BLINDS AT ALL INTERIOR AND EXTERIOR OPENINGS INCLUDING DOOR SIDELITES, BUT EXCLUDING DOOR LITES UNLESS OTHERWISE NOTED.

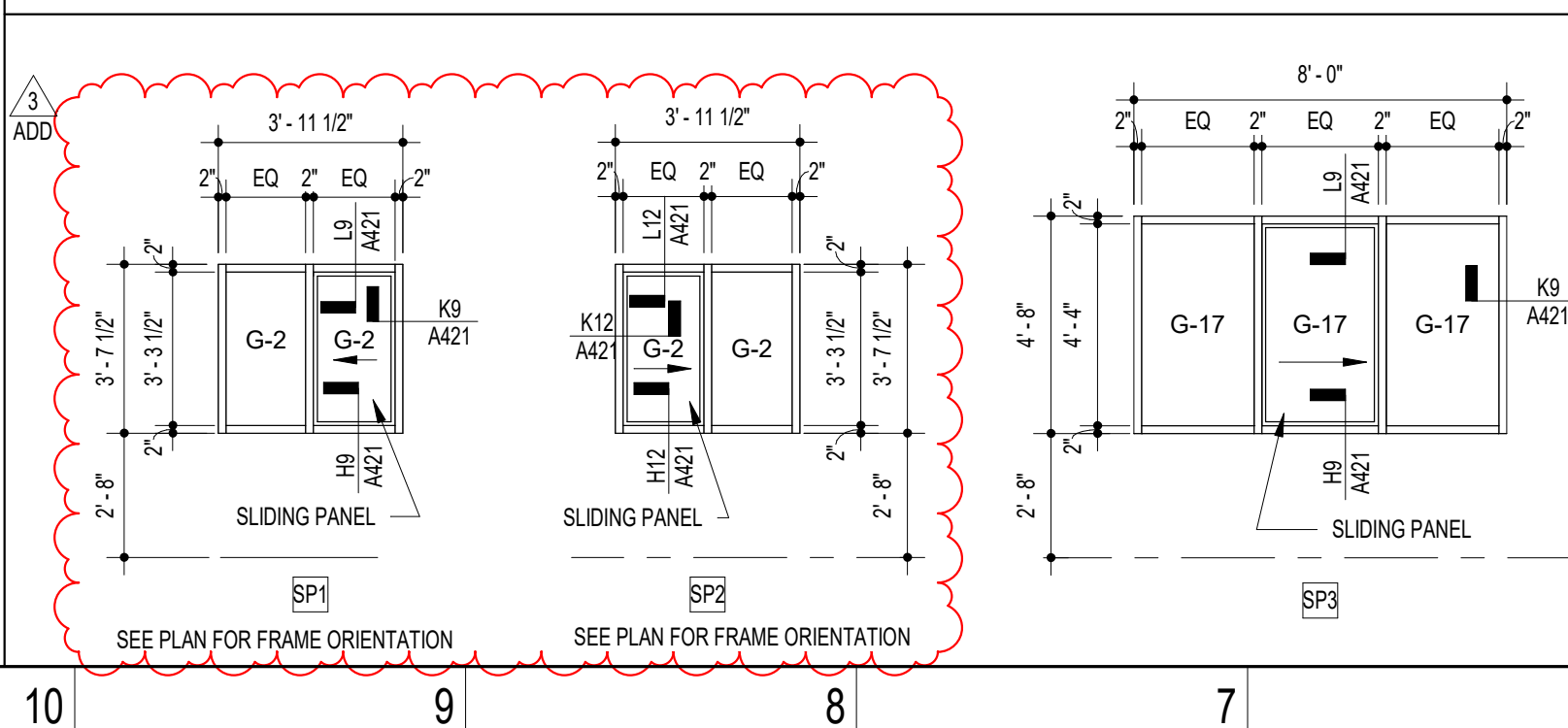
GLASS TYPE KEY

- | | |
|-------|--|
| G-1 | 1/4" CLEAR ANNEALED FLOAT GLASS |
| G-2 | 1/4" CLEAR FULLY TEMPERED SAFETY GLASS |
| G-3 | 1/4" CLEAR HEAT STRENGTHENED LAMINATED SAFETY GLASS |
| G-4 | 3/8" CLEAR HEAT STRENGTHENED LAMINATED SAFETY GLASS W/ ACOUSTICAL INTERLAYER |
| G-8 | 5/16" FIRE PROTECTIVE RATED GLASS |
| G-10 | 1" INSULATING GLASS, CONSISTING OF:
1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
1/2" AIR SPACE, AND
1/4" CLEAR TEMPERED SAFETY GLASS |
| G-11 | 1" INSULATING GLASS, CONSISTING OF:
1/4" CLEAR ANNEALED GLASS, EXTERIOR LITE WITH LOW E COATING
1/2" AIR SPACE, AND
1/4" CLEAR ANNEALED GLASS |
| G-12 | 1" INSULATING GLASS, CONSISTING OF:
1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
1/2" AIR SPACE, AND
1/4" CLEAR TEMPERED SAFETY GLASS WITH CERAMIC COATED FRIT PATTERN |
| G-14 | 1" INSULATING GLASS, SPANDREL UNIT CONSISTING OF:
1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
1/2" AIR SPACE, AND
1/4" CLEAR TEMPERED SPANDREL GLASS |
| G-15A | 1" INSULATING GLASS, CONSISTING OF:
1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
1/2" AIR SPACE, AND
3/8" CLEAR HEAT STRENGTHENED LAMINATED SAFETY GLASS |
| G-15B | 1" INSULATING GLASS, CONSISTING OF:
1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
1/2" AIR SPACE, AND
3/8" CLEAR HEAT STRENGTHENED LAMINATED SAFETY GLASS WITH CERAMIC COATED FRIT PATTERN |
| G-16 | 1" INSULATING GLASS, CONSISTING OF:
1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
1/2" AIR SPACE, AND
1/4" CLEAR TEMPERED SAFETY GLASS WITH CUSTOM CERAMIC COATED FRIT GRADIENT PATTERN |
| G-17 | 1" INSULATING GLASS, CONSISTING OF:
1/4" CLEAR LAMINATED GLASS
1/2" AIR SPACE, AND
1/4" CLEAR LAMINATED GLASS |

NUMBERED REMARKS

- NOTE 1: PROVIDE NO HORIZONTAL LOUVER BLINDS AT THIS FRAME OPENING.
- NOTE 2: PROVIDE MANUAL TRANSLUCENT ROLLER SHADES AT THIS FRAME OPENING.
- NOTE 3: PROVIDE ELECTRIC TRANSLUCENT ROLLER SHADES AT THIS FRAME OPENING.
- NOTE 4: PROVIDE BOTH TRANSLUCENT AND BLACK-OUT SHADES AT THIS FRAME OPENING. BOTH ARE ELECTRICALLY-OPERATED.
- NOTE 5: PROVIDE BOTH TRANSLUCENT AND BLACK-OUT SHADES AT THIS FRAME OPENING. BOTH ARE MANUALLY-OPERATED.

SPECIAL FRAME TYPES



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000

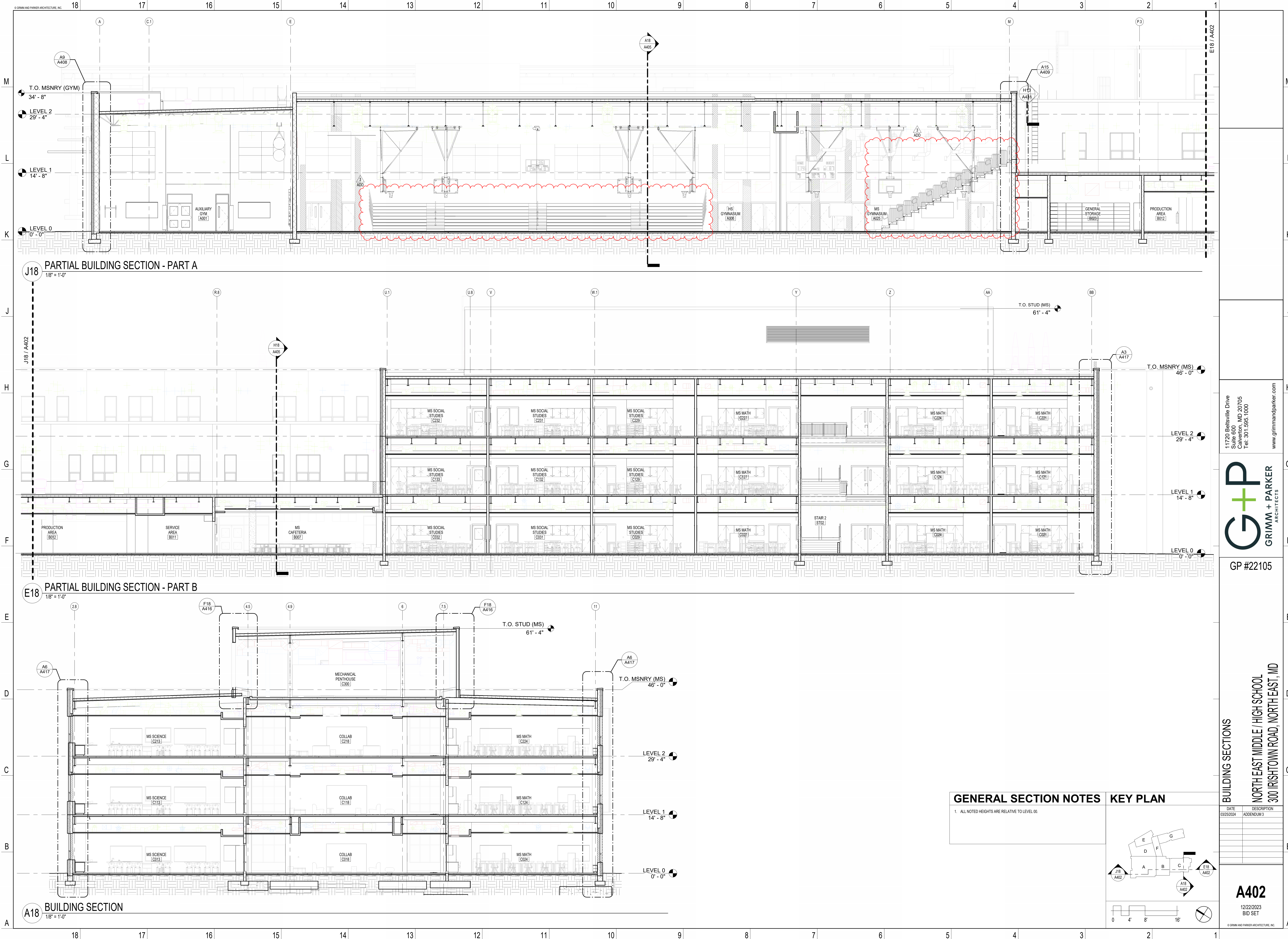


GP #22105

FRAME ELEVATIONS - HM
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A312
12/22/2023
BID SET



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

GP

GRIMM + PARKER

ARCHITECTS

GP #22105

BUILDING SECTIONS

NORTH EAST MIDDLE / HIGH SCHOOL

300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A402

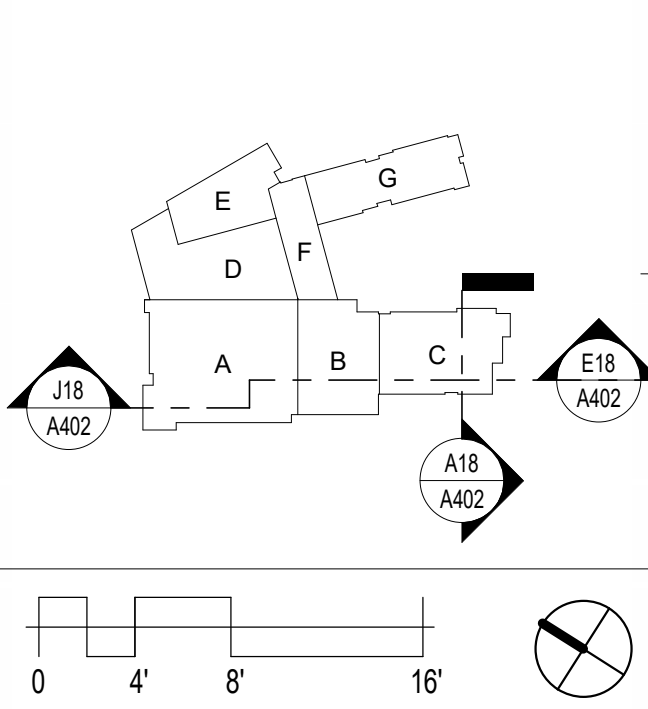
12/22/2023
BID SET

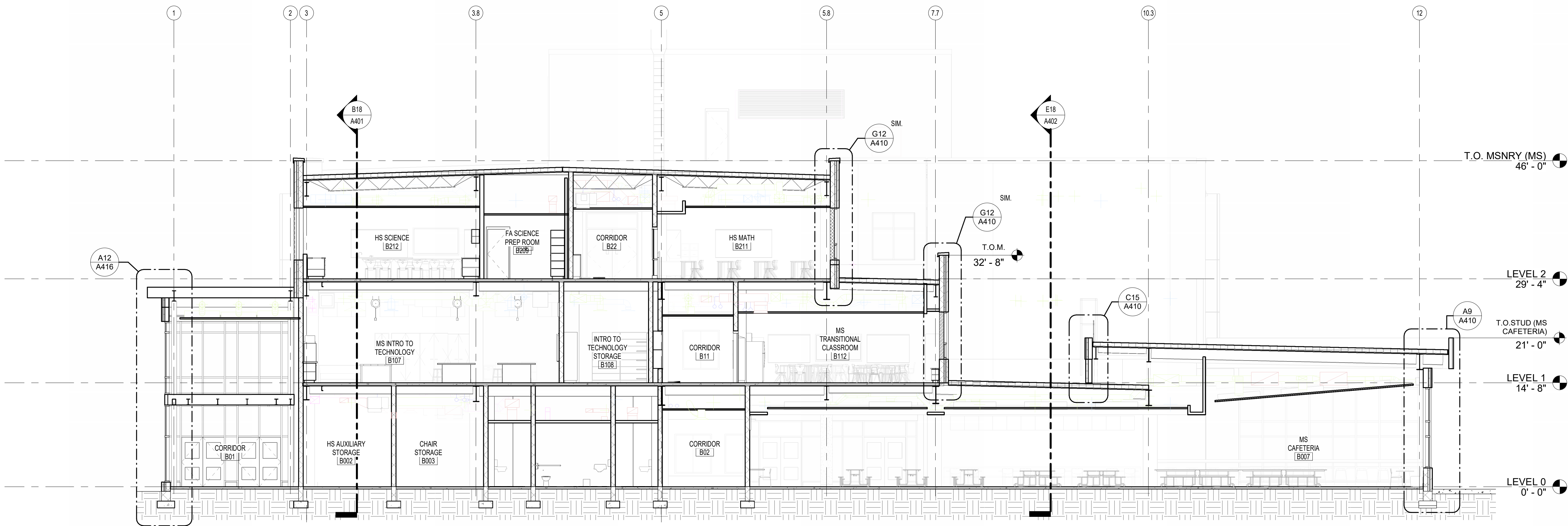
© GRIMM AND PARKER ARCHITECTURE, INC.

GENERAL SECTION NOTES

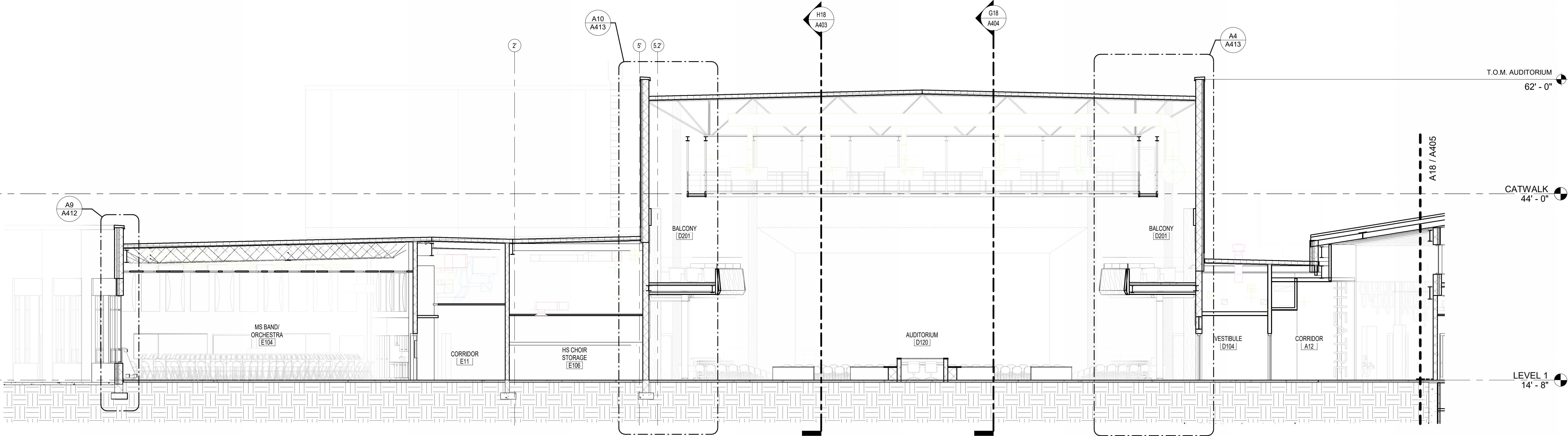
1. ALL NOTED HEIGHTS ARE RELATIVE TO LEVEL 00.

KEY PLAN

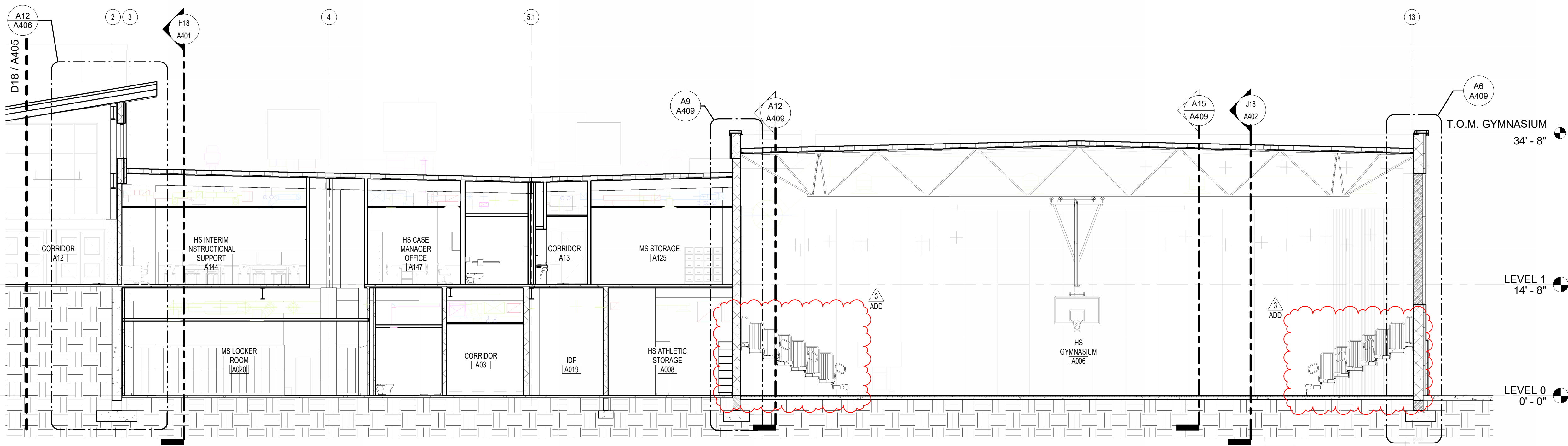




H18 BUILDING SECTION - CAFETERIAS
1/8" = 1'-0"



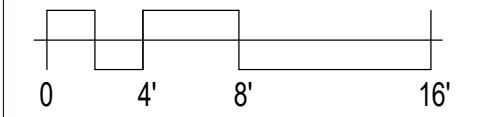
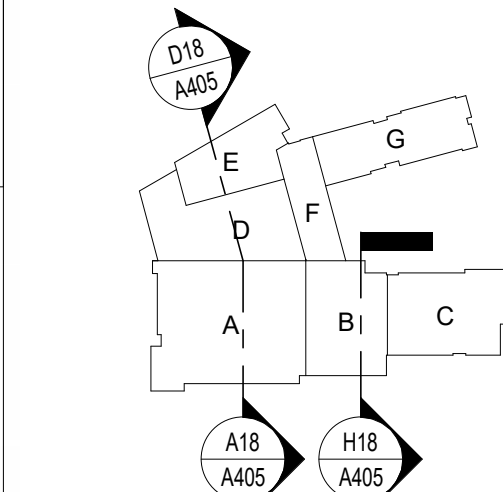
D18 PARTIAL BUILDING SECTION - PART A
1/8" = 1'-0"



A18 PARTIAL BUILDING SECTION - PART B
1/8" = 1'-0"

GENERAL SECTION NOTES KEY PLAN

1. ALL NOTED HEIGHTS ARE RELATIVE TO LEVEL 00.



RECORD DRAWING NOTIFICATION
These record drawings have been prepared based upon information provided by the owner and are not to be used for construction without the approval of the architect. The architect assumes no responsibility for the accuracy or completeness of the information provided by the owner. Such information is provided for the architect's use only and shall not be used for any other purpose without the written consent of the architect. The architect assumes no responsibility for the use of these record drawings for any other purpose without the written consent of the architect. The architect assumes no responsibility for the use of these record drawings for any other purpose without the written consent of the architect. The architect assumes no responsibility for the use of these record drawings for any other purpose without the written consent of the architect.

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

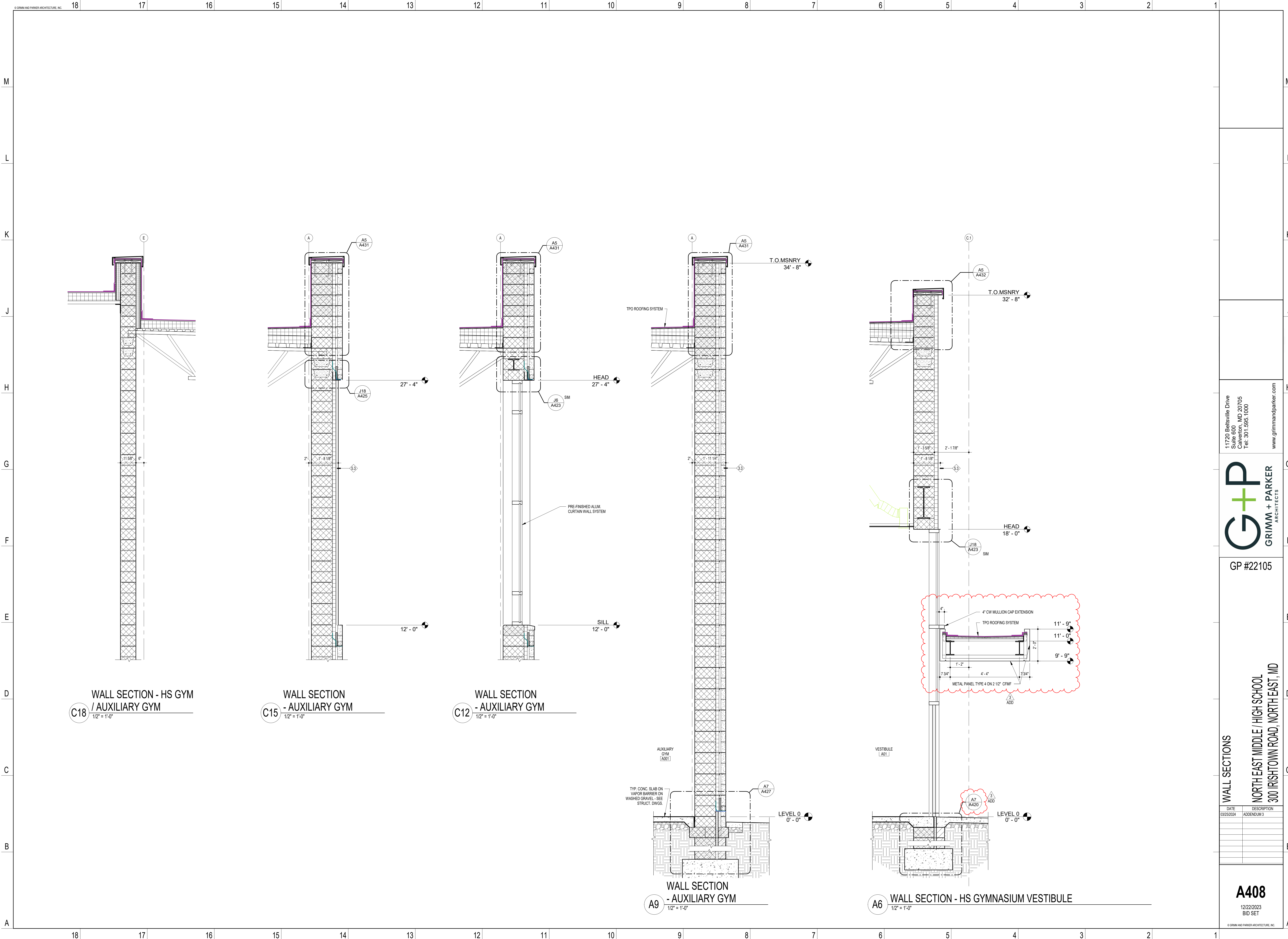


GP #22105

BUILDING SECTIONS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A405
12/22/2023
BID SET



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

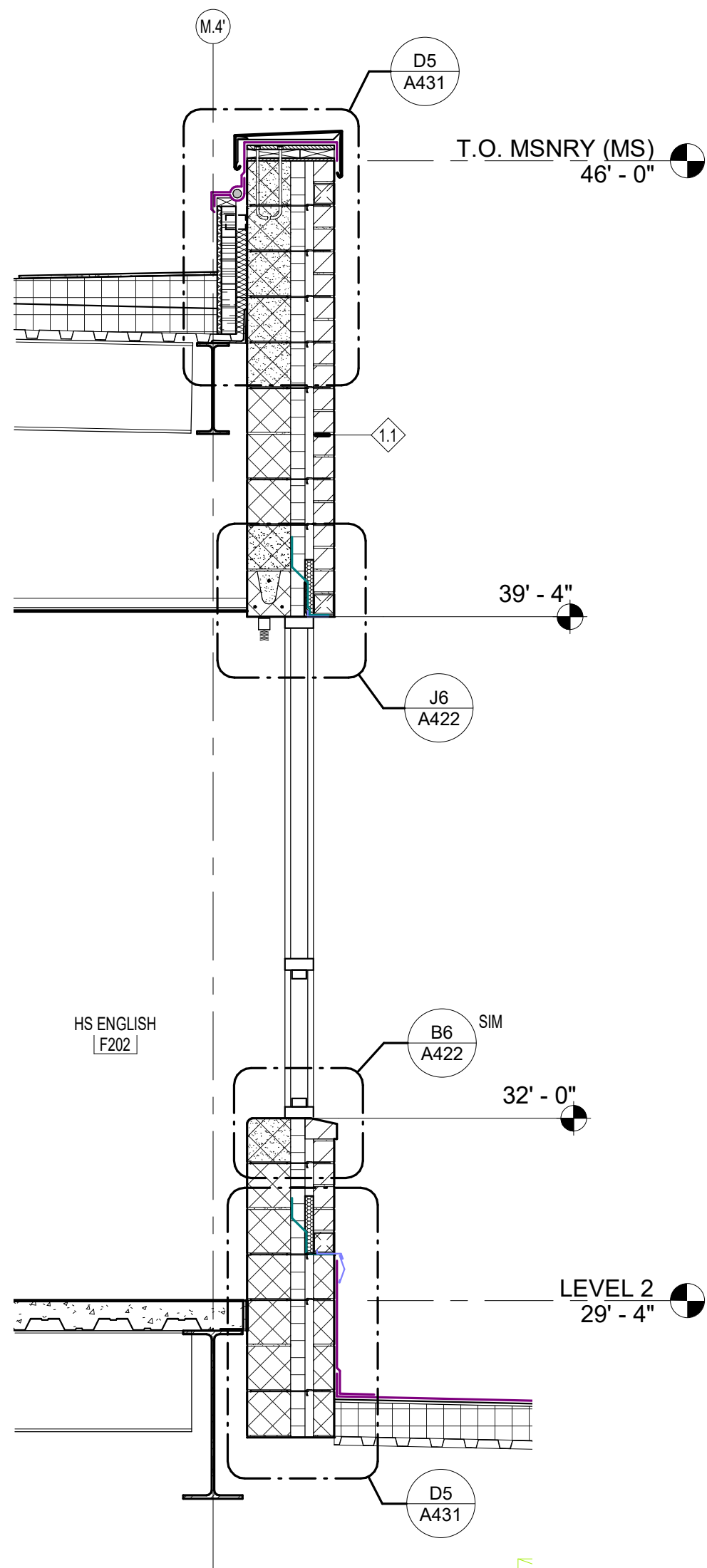


GP #22105

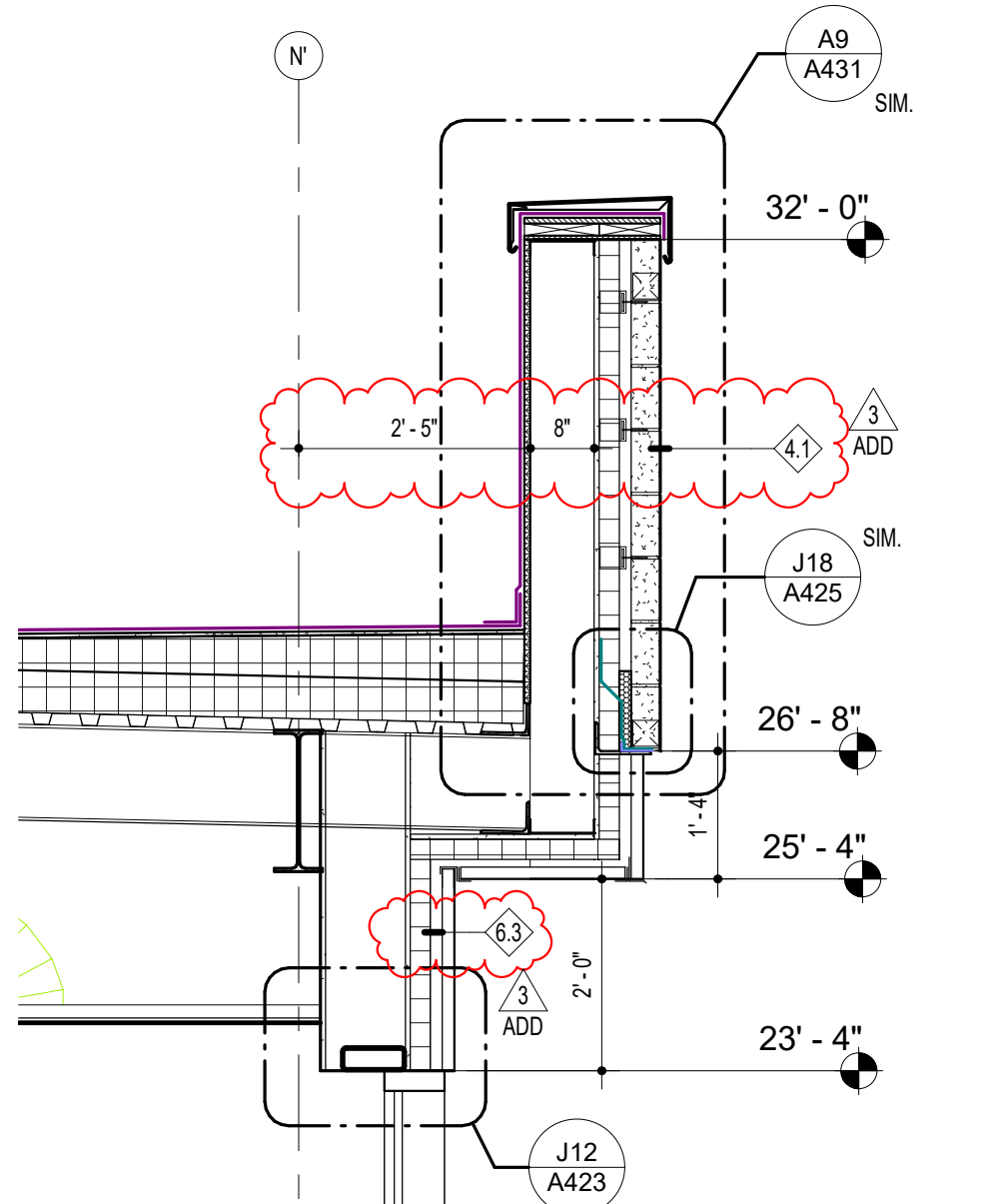
WALL SECTIONS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

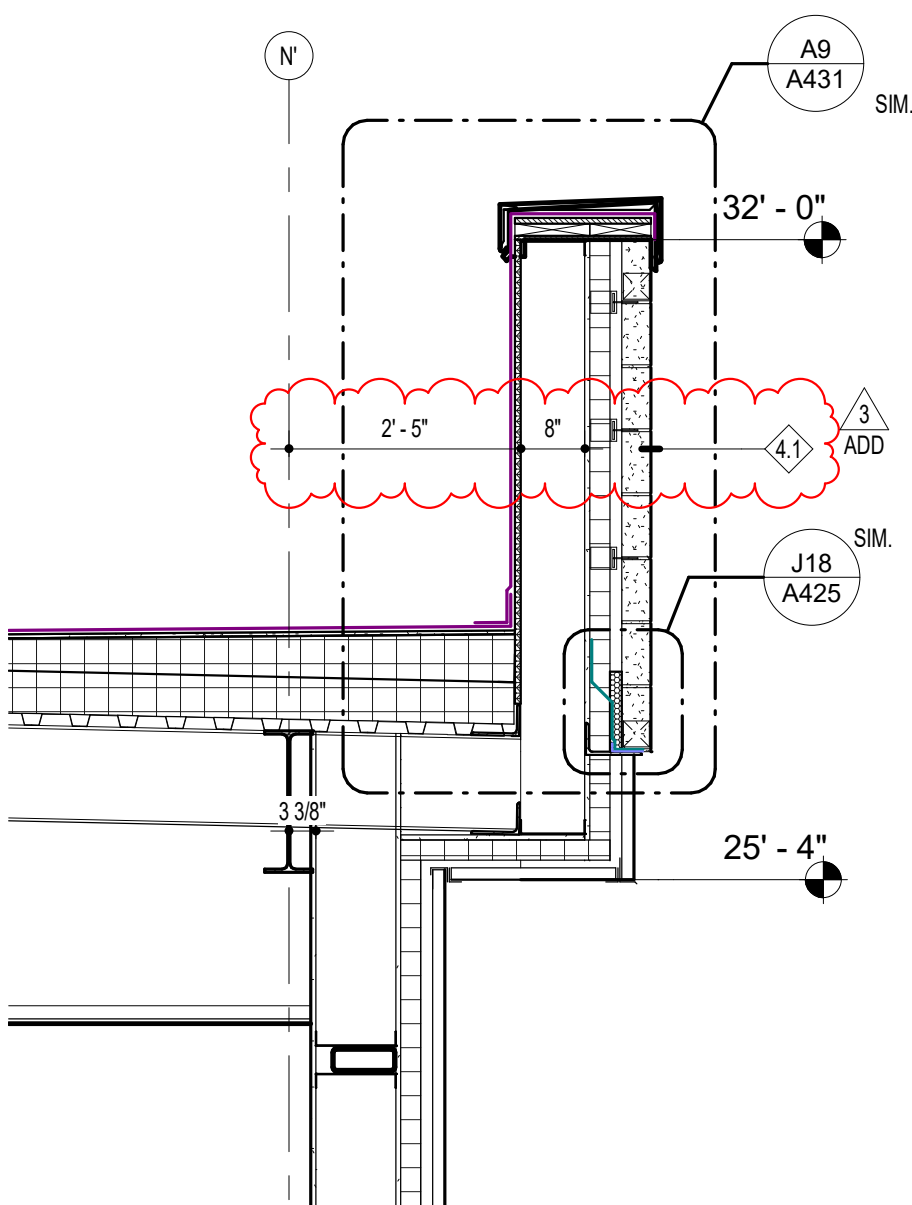
A408
12/22/2023
BID SET



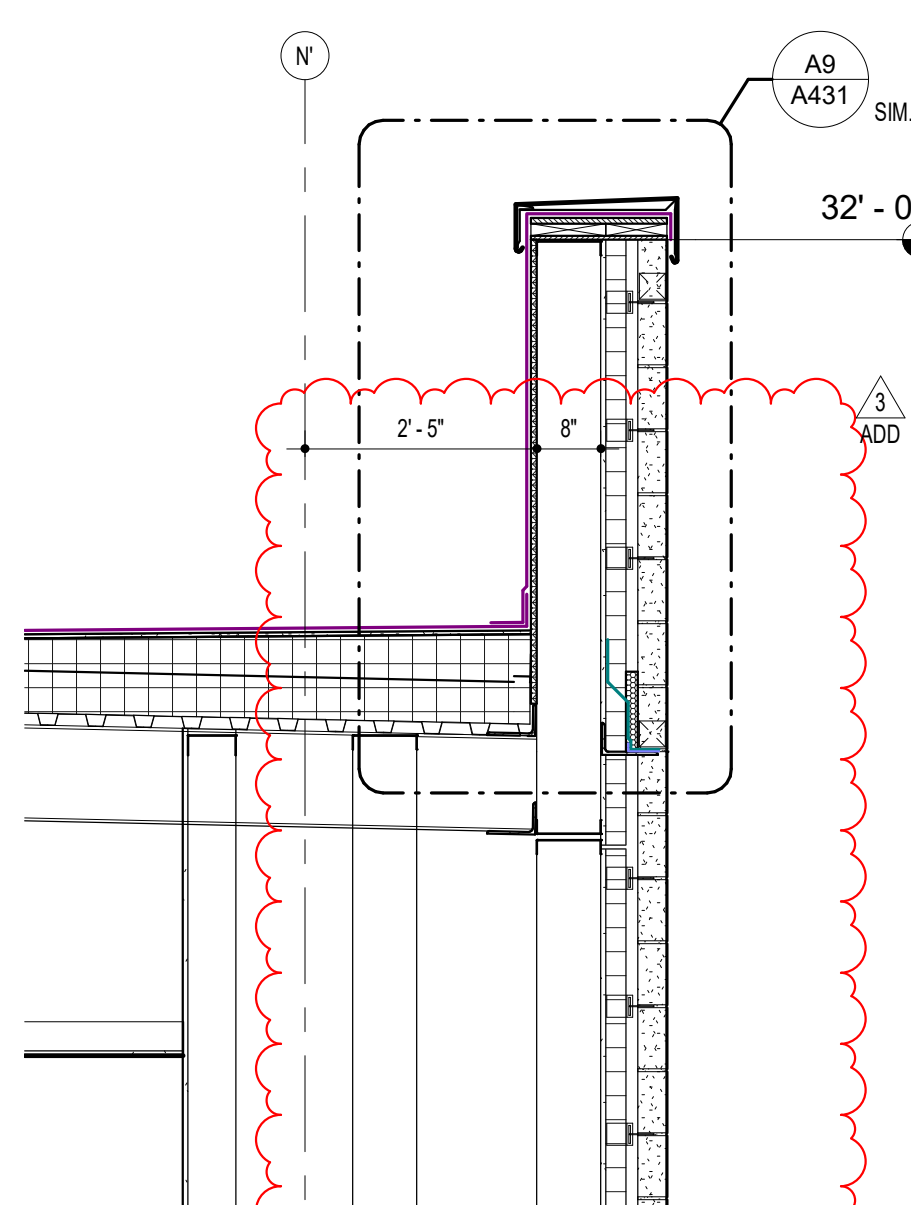
G15 WALL SECTION
1/2" = 1'-0"



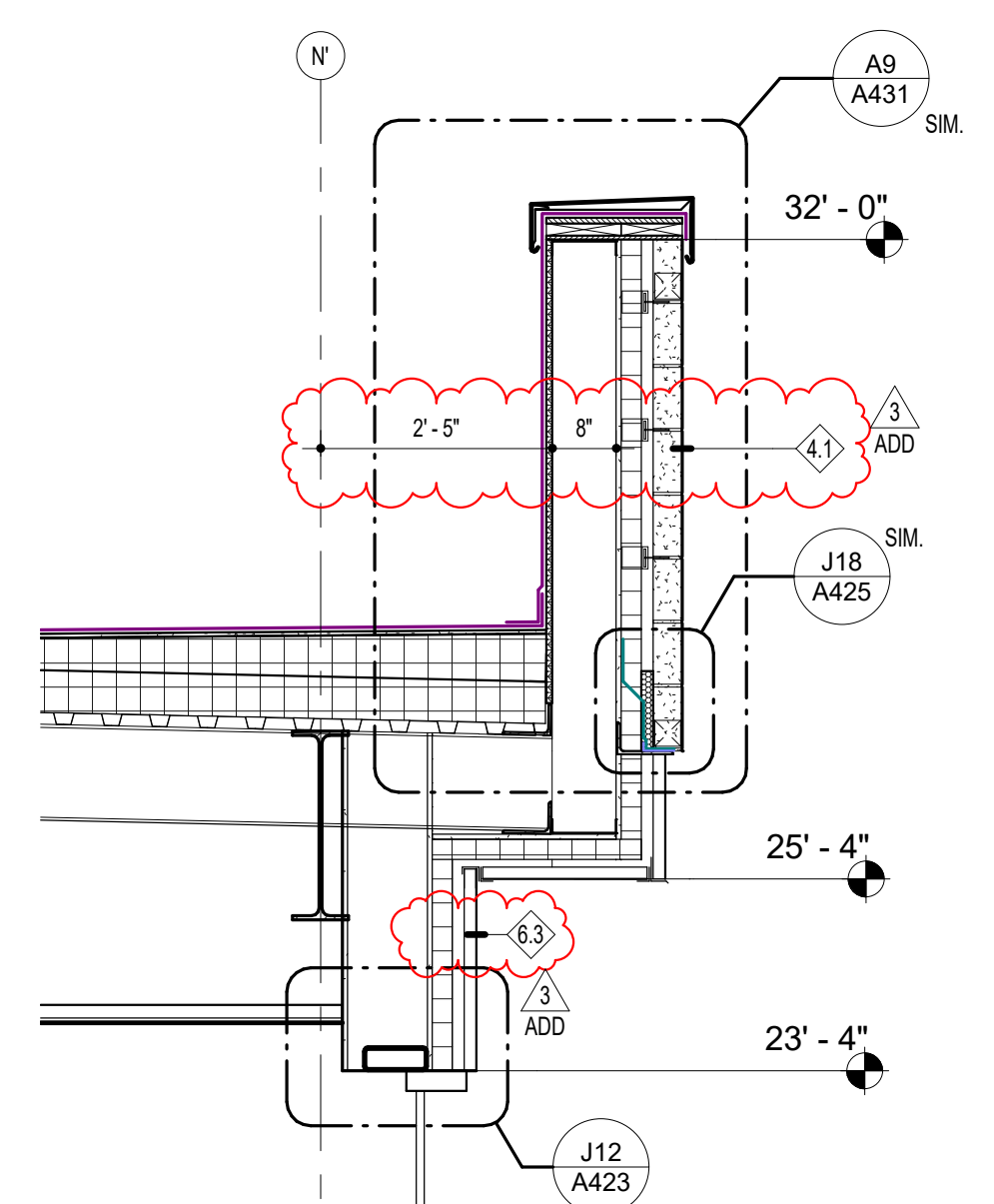
WALL SECTION
- MAIN LIBRARY
A12 1/2" = 1'-0"



WALL SECTION
- MAIN LIBRARY
A9 1/2" = 1'-0"



WALL SECTION
- MAIN LIBRARY
A6 1/2" = 1'-0"



WALL SECTION
- MAIN LIBRARY
A3 1/2" = 1'-0"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

GRIMM + PARKER
ARCHITECTS

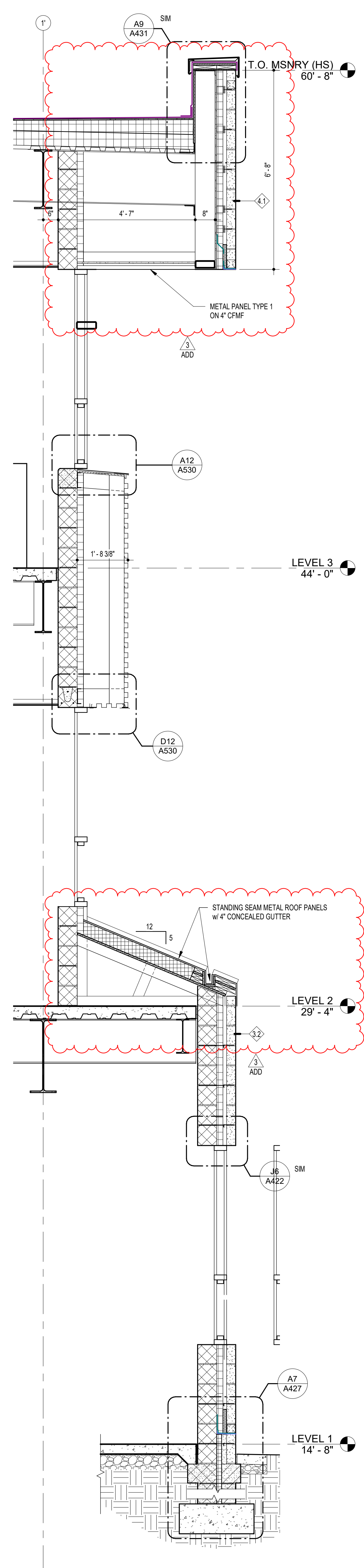
GP #22105

WALL SECTIONS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

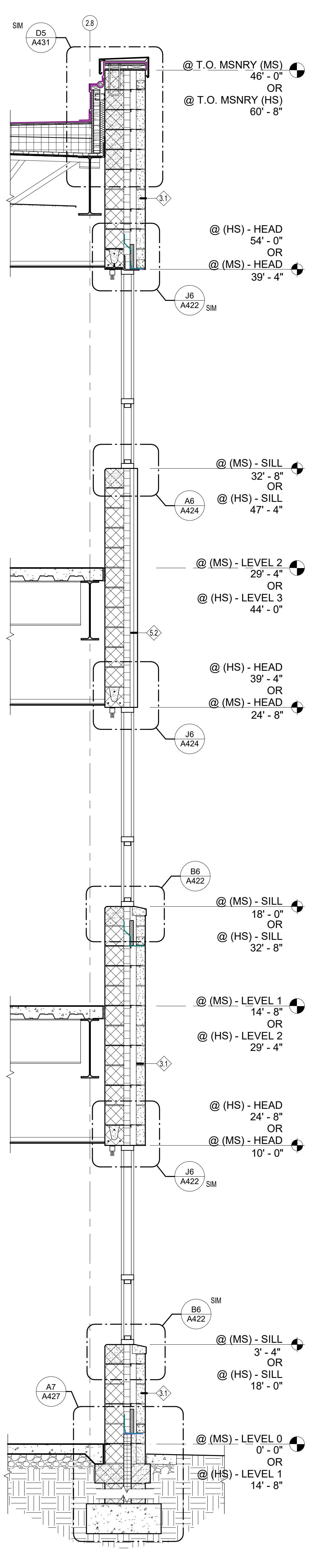
DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A415
12/22/2023
BID SET

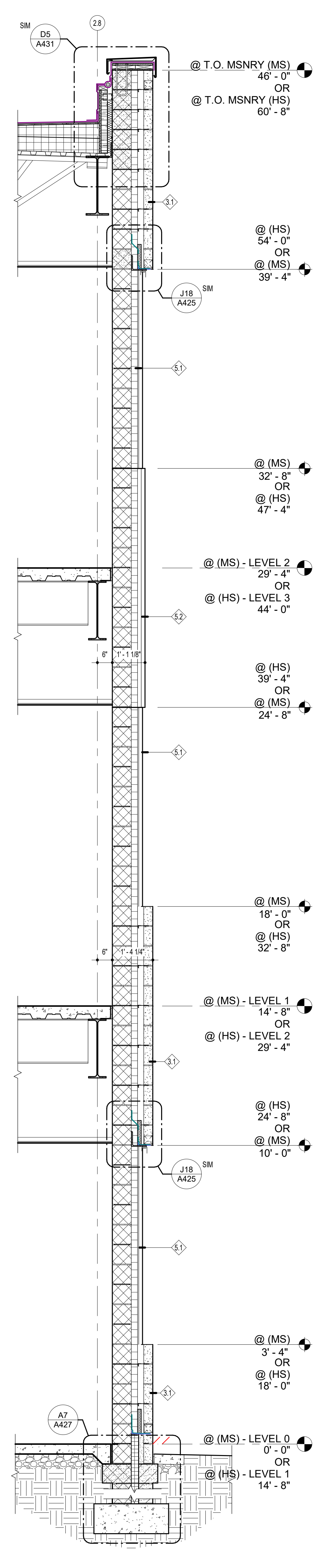
© GRIMM AND PARKER ARCHITECTURE, INC.



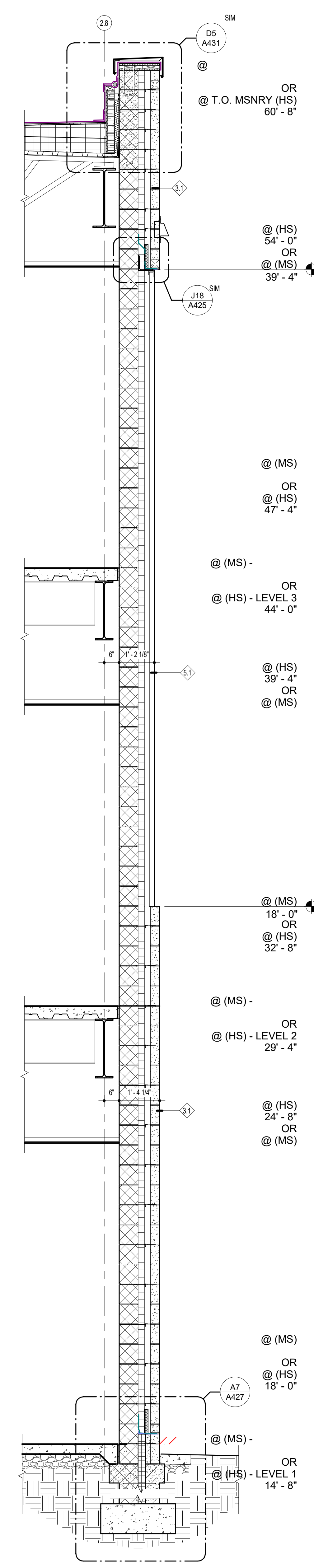
WALL SECTION
- HS CLASSROOM
A12 1/2" = 1'-0"



WALL SECTION
- MS CLASSROOM
A9 1/2" = 1'-0"



WALL SECTION
- MS CLASSROOM
A6 1/2" = 1'-0"



WALL SECTION
- MS CLASSROOM
A3 1/2" = 1'-0"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

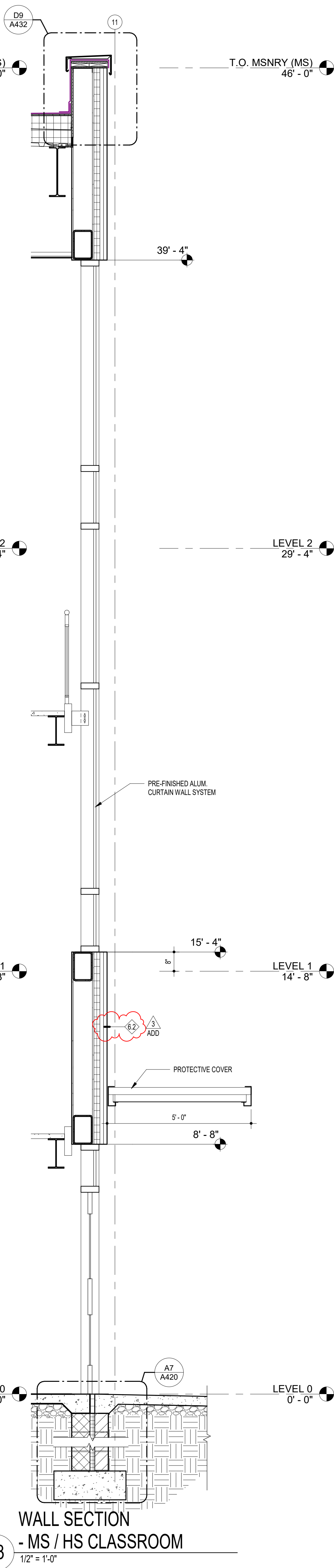
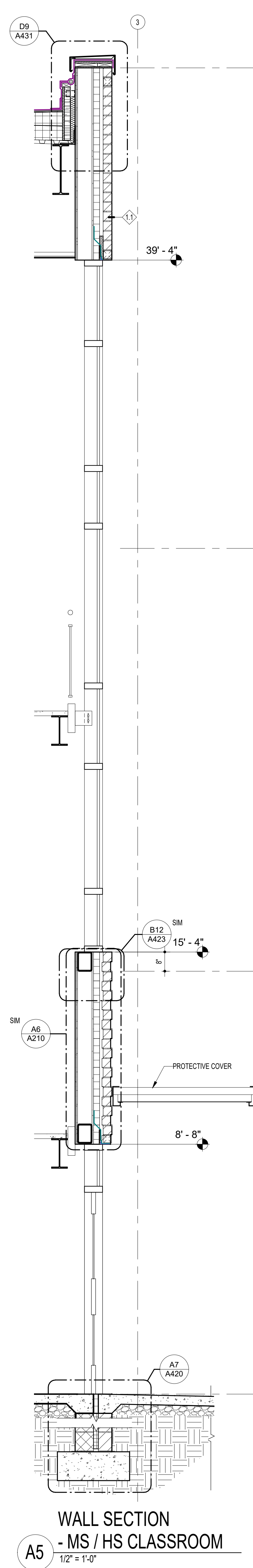
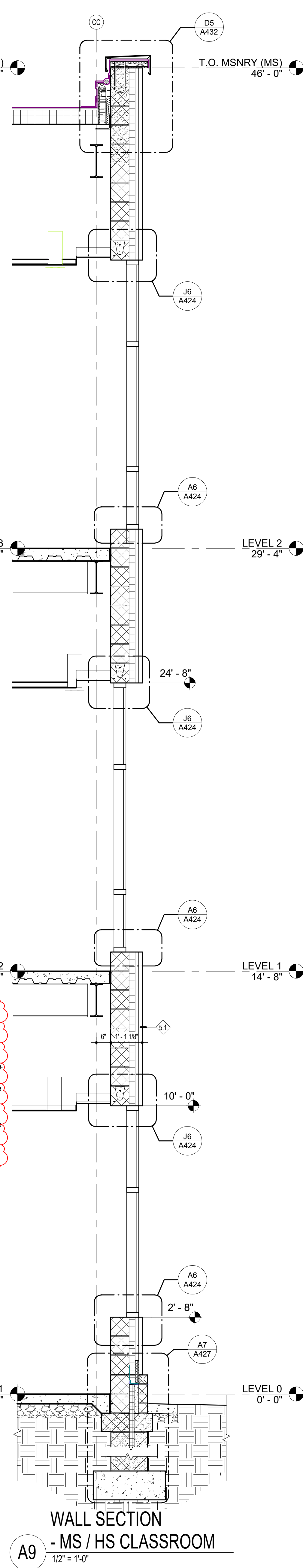
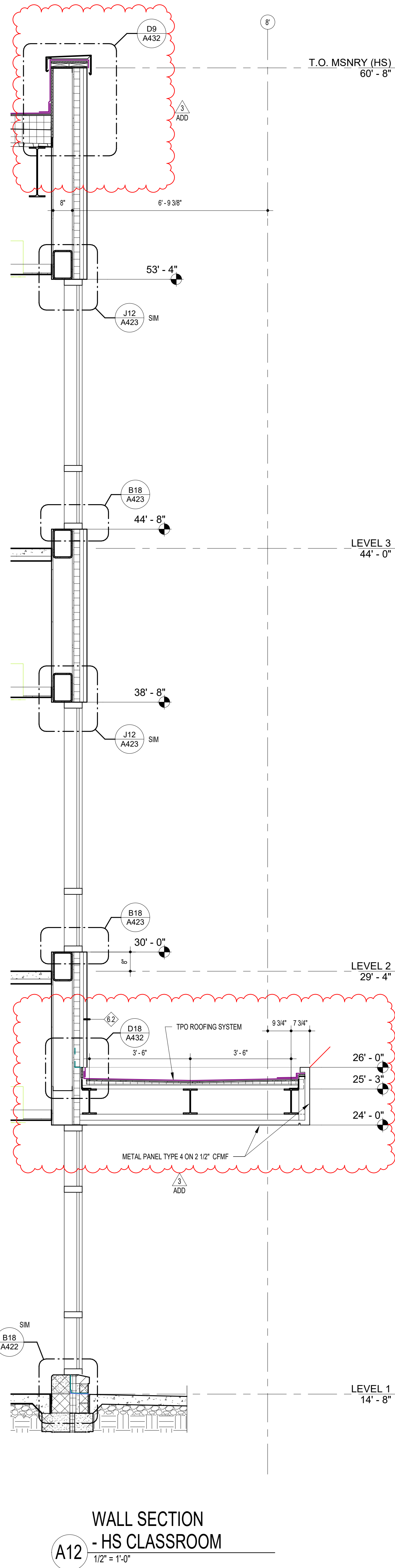
GRIMM + PARKER
ARCHITECTS

GP #22105

WALL SECTIONS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A418
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandparker.com



GP #22105

WALL SECTIONS

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

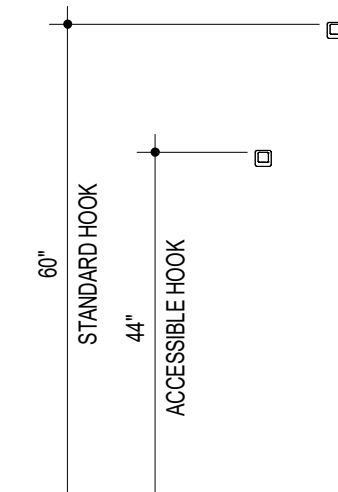
A419

12/22/2023
BID SET



(LTS) 1/4" = 1'-0"

② $1/2 = 1-0$



III 5 $1/2'' = 1'-0''$

1110 $1/4" = 1'-0"$

1113 $1'' = 1'-0''$

Diagram illustrating the placement of a room sign on a door. The sign is mounted on the door, and the dimensions for its placement are specified:

- MIN 18" WIDE CLR FLOOR SPACE EXTENDING 18" FROM WALL FACE
- 9" MIN.
- ROOM SIGN
- HINGE SIDE OF DOOR
- LATCH SIDE OF DOOR
- EQ
- EQ
- 68" TO TOP OF SIGN
- (48" MIN. TO LOWEST LINE OF TEXT;
52" MAX. TO HIGHEST LINE OF TEXT)

REPRESENTED BY: FXX

WOMEN'S / GIRL'S

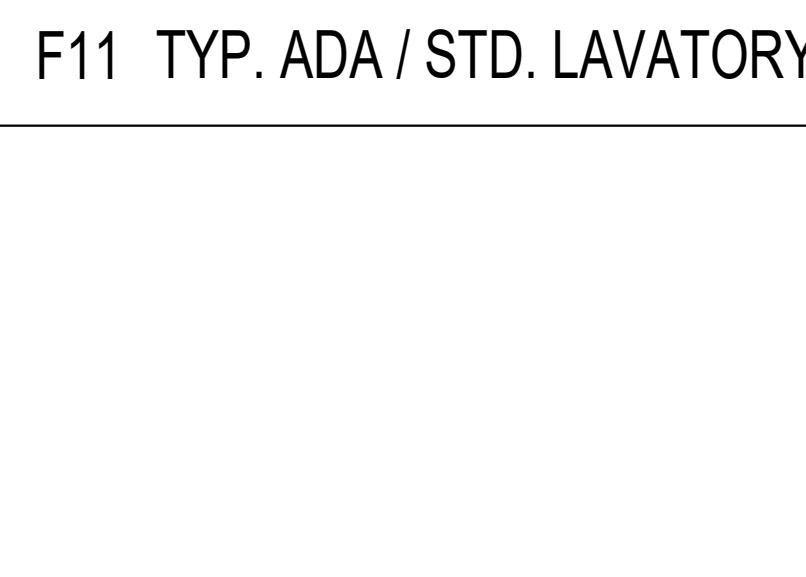


FIXTURE	STANDARD		ACCESSIBLE		REMARKS
	A	ADULT	C	ADULT ADA (AGE 13+ GRADE 6+)	
	A	15"		18 1/2"	TO TOP OF TOILET SEAT
	B	22"		25"	TO CL. OF TISSUE DISPENSING POINT
	C	-		35"	TOP OF GRAB BAR GRIPPING SURFACE
	KEY NOTES: 1) 36" GRAB BAR; 2) 42" GRAB BAR; 3) TISSUE DISPENSER; 4) SANITARY NAPKIN DISPOSAL (WHERE INDICATED ON PLANS)				
	NOTE: IF FLUSH VALVE IS PROVIDED AT CHILD ADA WC, GRAB BAR MAY BE SHIFTED IF WC IS LESS THAN 15" TO WALL, OR SPLIT W/ 1/2" AT SHORT SIDE AND 24" AT LONG SIDE TO COMPLY MOUNTING HEIGHT REQUIREMENTS				
	SEE ABOVE FOR GRAB BAR MOUNTING HT. °C				
	A	SEE PLANS		17"	TO CENTERLINE OF WATER CLOSET
	KEY NOTES: 1) 36" GRAB BAR; 2) 42" GRAB BAR; 3) FLUSH VALVE ACTUATOR TO BE LOCATED ON OPEN SIDE OF WATER CLOSET; 4) WHERE WATER CLOSET IS INSTALLED WITHIN AN ACCESSIBLE COMPARTMENT, OBSERVE REQUIRED DOOR OPENING LOCATIONS AND DIMENSIONS RELATIVE TO WATER CLOSET LOCATION AS SHOWN (OPPOSITE NEAR-SIDE WALL PARTITION); 5) PROVIDE MINIMUM 20" CLEAR DOOR OPENING MEASURED BETWEEN FACE OF DOOR AND STRIKE-SIDE JAMB FACE WITH DOOR IN 90 DEG. OPEN POSITION.				
	REFERENCE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN				
	KEY NOTES: 1) 42" GRAB BAR; 2) PROVIDE MINIMUM 32" CLEAR DOOR OPENING MEASURED BETWEEN FACE OF DOOR AND STRIKE-SIDE JAMB FACE WITH DOOR IN 90 DEG. OPEN POSITION.				
	REFERENCE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN				
FIXTURE	STANDARD		ACCESSIBLE		REMARKS
	A	ADULT	C	ADULT ADA (AGE 13 & UP GRADE 8 & UP)	
	A	24"		15"	TO TOP OF RIM
	B	31"		33"	TO TOP OF RIM
	C	39"		39"	TO B.O. MIRROR REFLECTIVE SURFACE
	A	40"		40"	TO CENTERLINE OF SOAP DISPENSING POINT
	B	40"		40"	TO CENTERLINE OF TOWEL DISPENSING POINT
	C	40"		40"	TO ELECTRIC EYE OF HAND DRYER OR PUSH BUTTON
	A	42"		35"	TO SPOUT OUTLET

1. ALL ACCESSORIES ARE SURFACE MOUNTED UNLESS NOTED OTHERWISE.
2. PROVIDE A PAPER TOTE DISPENSER AND SOAP DISPENSER (ITEMS 1.8 & 2) AT EACH SINK LOCATION THROUGHOUT THE BUILDING.
3. NO SUBSTITUTIONS WILL BE ALLOWED FOR THIS SECTION.
4. PROVIDE A WRITTEN APPROVAL, SIGNED BY THE OWNER, TO OBTAIN THE TOP OF THE UNIT LOCATED AT ALL WOMEN'S TOILETS.
5. PROVIDE UTILITY SINKS W/ MOP HOLDER (ITEM 2.1) AT ALL SERVICE COUNTERS.
6. LOCATE SINKS (ITEMS 2.2 & 2.3) 2' TO 4' FROM ADJACENT WALL AND 2'-0" AFF. TO THE TOP OF THE UNIT. LOCATE AT ALL WOMEN'S TOILETS.
7. ALL GROUND BURNING UNITS WILL BE REQUIRED TO BE INSTALLED TO THE OUTSIDE.
8. CENTRIFUGES OF ALL TOILETS IN STALLS TO BE EQUAL DISTANCE BETWEEN PARTITIONS UNLESS DIMENSIONED OR NOTED OTHERWISE.
9. PROVIDE ACCESS TO ALL TOILETS PARTIALLY ON THE CERAMIC TILE EITHER OUT THE TILE UNDER THE ACCESSORY FOR A FLUSHIT OR PROVIDE CONTINUOUS WOOD BURNING.
10. REFER TO PLUMBING PLANS FOR FLOOR DRAIN LOCATIONS.
11. REFER TO PLUMBING PLANS AND SCHEDULE FOR TOILET FIXTURE TYPES AND LOCATIONS.
12. PROVIDE COT/ ROBE HOOKS ON ALL TOILET STALL DOORS AND SINGLE USER TOILET ROOM DOORS.

TOILET ACCESSORY SCHEDULE					
ITEM #	ACCESSORY DESCRIPTION	BOBBICK	A.S.I.	BRADLEY	REMARKS
1	PAPER TOWEL DISPENSER	-	-	-	NIC NIC
2	SOAP DISPENSER	-	-	-	NIC
3	FIXED SOAP TRAY	B-880	147	9015	
4	ELECTRIC HAND DRYER	-	-	-	XLERATOR XL-W
5	TOILET TISSUE DISPENSER - STUDENT	-	-	-	NIC
6	TOILET TISSUE DISPENSER - FACULTY	B-69997	-	-	
7	SANITARY NAKPIN DISPOSAL	B-270	-	-	
8	SANITARY NAKPIN DISPENSER	-	-	-	HOSPECO K20H
9	GRAB BAR - 16"	B-6806 99-18	3801-18P	6122-001180	
10	GRAB BAR - 24"	B-6806 99-24	3801-24P	6122-001240	
11	GRAB BAR - 30"	B-6806 99-30	3801-30P	6122-001300	
12	GRAB BAR - 36"	B-6806 99-36	3801-36P	6122-001360	
13	GRAB BAR - 42"	B-6806 99-42	3801-42P	6122-001420	
14	GRAB BAR - 48"	B-6806 99-48	3801-48P	6122-001480	
15	CORNER GRAB BAR	B-6806 16 99	3874P	6122-0019533	
16	SHOWER SEAT, L-SHAPED	B-6182	8206-LR	9569	SEE PLAN FOR HANDING
17	SHOWER SEAT, RECTANGULAR	-	8203-33	-	COORD. LENGTH WITH SHOWER DIMS
18	SHOWER CURTAIN ROD-EXPOSED MOUNTING	B-6107	1214	9531	
19	SHOWER CURTAIN	204-3	1200-V	9537	
20	SHOWER CURTAIN HOOKS	204-1	1200-SHU	9536	
21	ROBE / COAT HOOK	B-6717	7340	9183	
22	UTILITY SHELF W/ MOP HOLDERS	B-239X34	1308	9953	
23	LADDER HANGER	-	-	-	RACOR #PSM-1R, CLOS MASTERS INC. #PM-1 APPROVED EIGHT
24	CHANGING TABLE	KB-310-S5WM	9013-9	962-11	
25	MIRROR 18"x36"	B-105-1830	-	-	MOUNTED 8" A.F.F.
26	MIRROR 36"x30"	-	-	-	
27	MIRROR 48"x48"	-	-	-	
28	MIRROR 48"x80"	-	-	-	MOUNTED 8" A.F.F.

FLOOR AREA



1. ORIENTATION / HANDING MAY VARY. SEE ENLARGED TOILET ROOM PLANS FOR SPECIFIC CONFIGURATIONS.

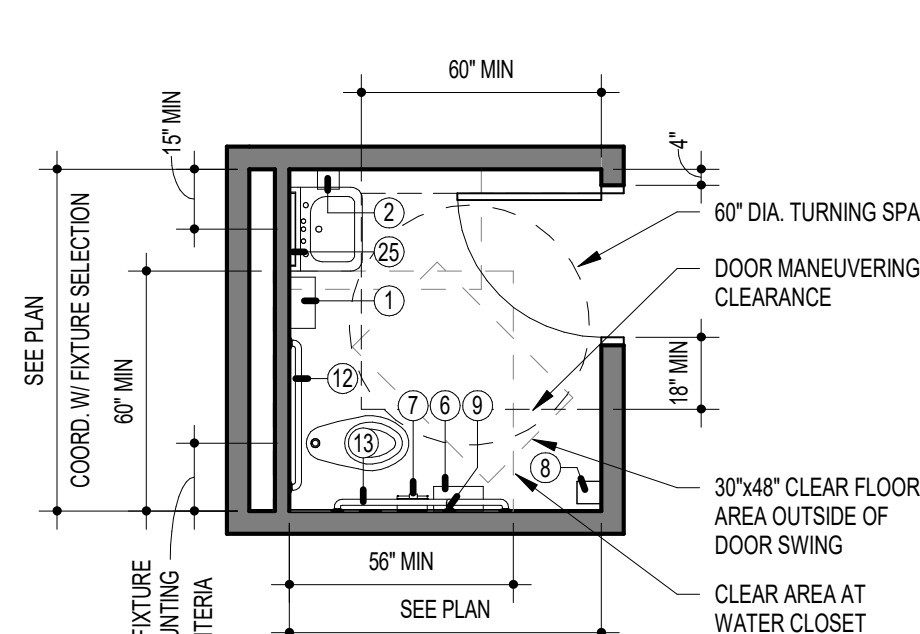
2. SEE FIXTURE AND ACCESSORY MOUNTING CRITERIA CHART THIS SHEET FOR ADDITIONAL DIMENSIONS AND INFORMATION.

3. SEE ENLARGED TOILET ROOM PLANS FOR ADDITIONAL DIMENSIONS, WALL TYPES AND ADDITIONAL ACCESSORIES NOT INDICATED ON THESE TYPICAL CONFIGURATIONS

4. CLEAR DIMENSIONS ARE TO FACE OF FINISH WALL INCLUDING ALL APPLIED FINISH MATERIALS.

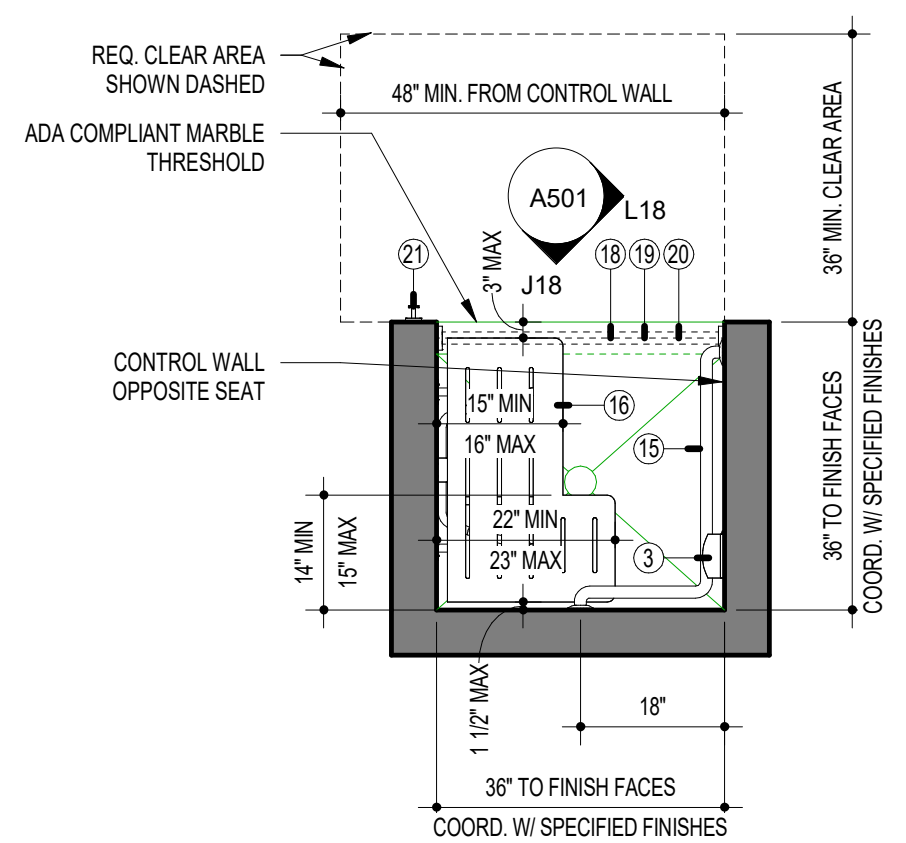
F17 FACULTY USE TOILET ROOM

F11 TYP. ADA / STD. LAVATORY

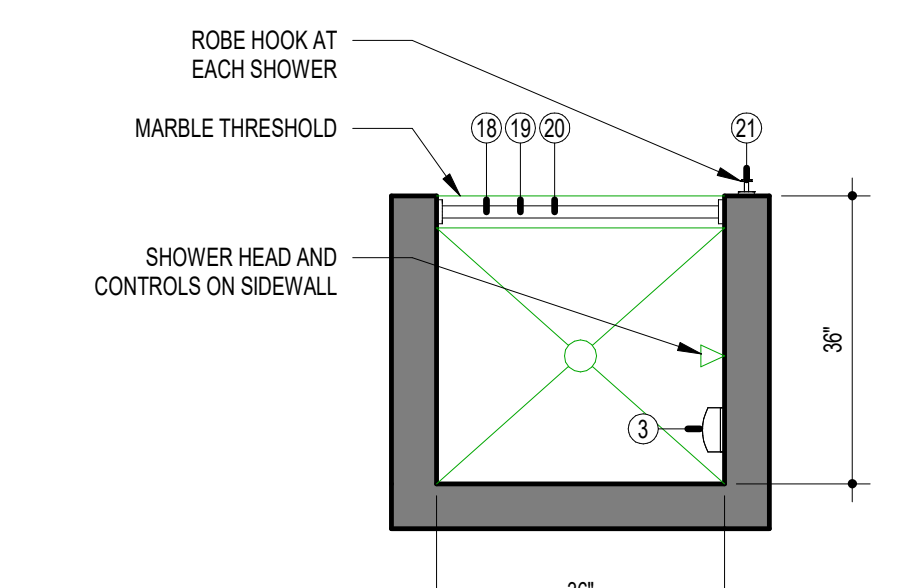


F15 STANDARD NON-ADA SHOWER

F10 TYPICAL ADA URINAL



F14 ADA TRANSFER SHOWER

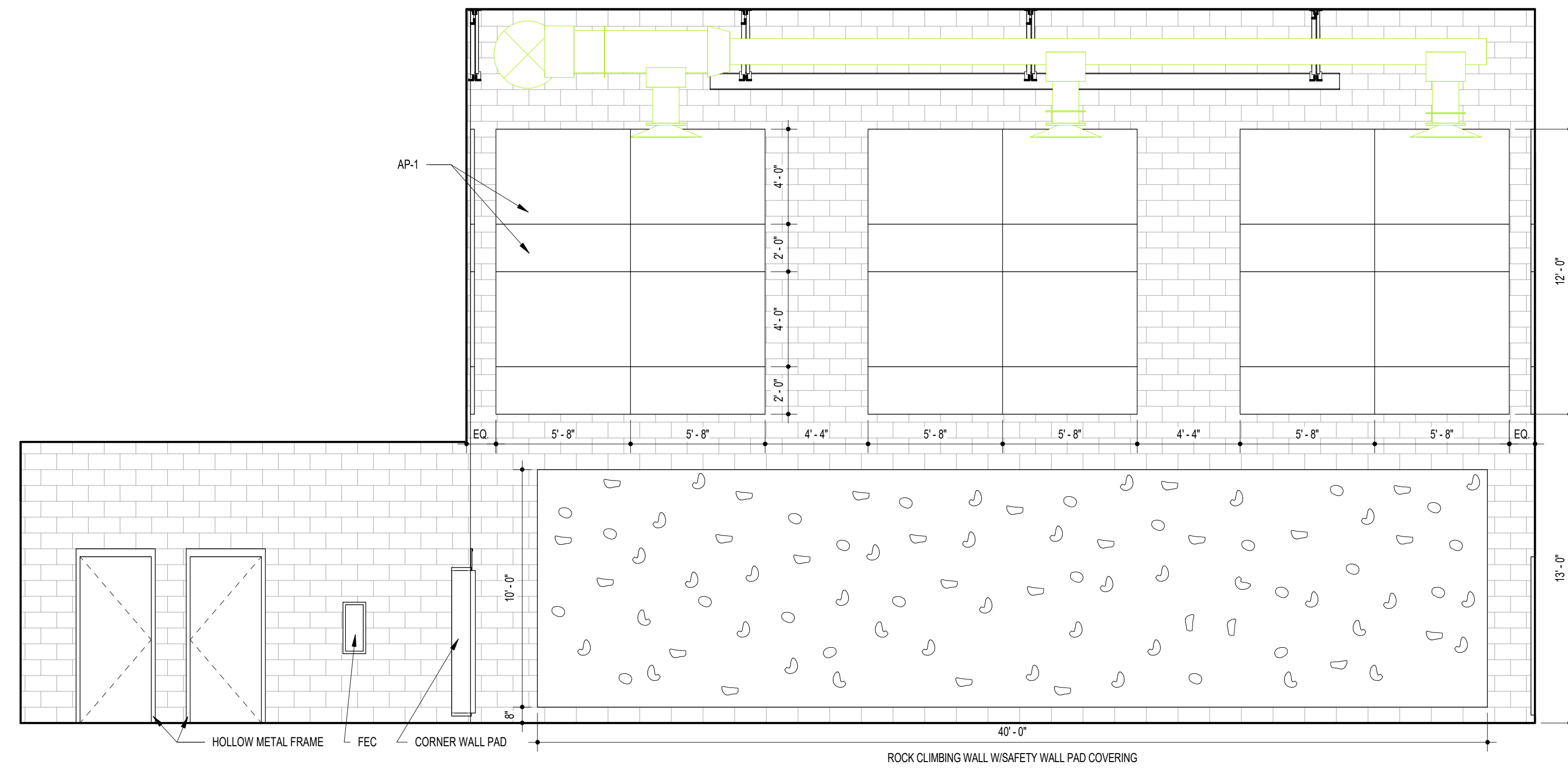


F15 STANDARD NON-ADA SHOWER

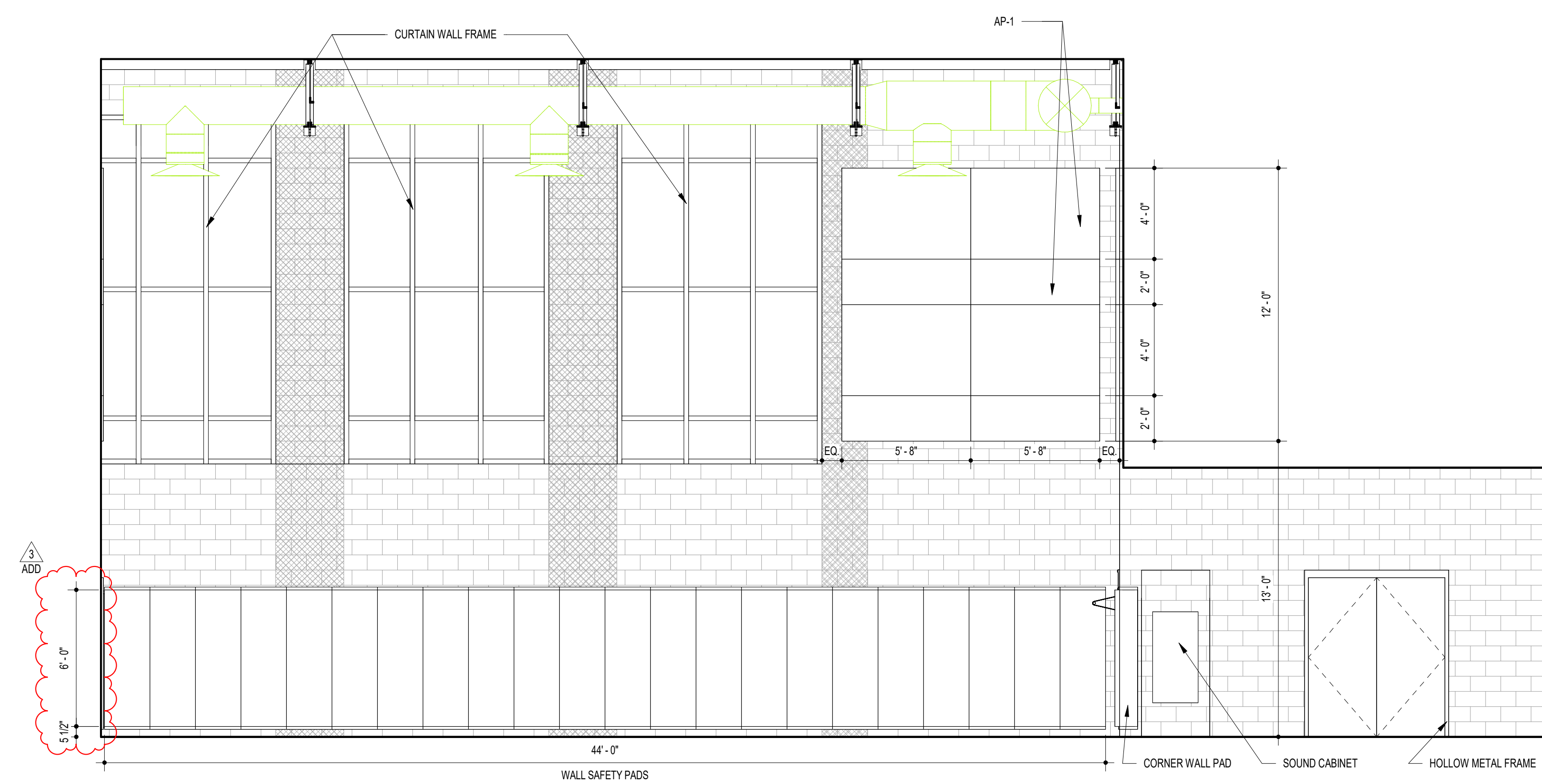
F10 TYPICAL ADA URINAL

(NOTES APPLY TO ALL
INTERIOR ELEVATION SHEETS)

1. WALL BASE IS AS SCHEDULED. UON. WALL BASE IS TO BE INSTALLED AT ALL AREAS AND IS NOT REPRESENTED ON ELEVATIONS.
2. CASEWORK IN CONTRACT IS AS SCHEDULED.
3. WALL FINISH TO BE PAINTED. UON.
4. WHERE BULKHEADS ARE PAINTED, ALL EXPOSED FACES TO BE PAINTED THE SAME COLOR.
5. AT MILLWORK ALL SLD SURFACE EDGES TO BE EASED EDGES.
6. REFER TO MATERIALS SCHEDULE FOR FINISH TAGS DETAILED FINISH INFORMATION.



G10 **AUXILIARY GYM ELEVATION**
1/4" = 1'-0"



A10 AUXILIARY GYM ELEVATION
1/4" = 1'-0"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandparker.com



GP #22105

INTERIOR ELEVATIONS

NORTHEAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTHEAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A601

12/22/2023
BID SET

© GRAMM AND PARKER ARCHITECTURE, INC.

(NOTES APPLY TO ALL
INTERIOR ELEVATION SHEETS)


$$\frac{1}{4}'' = 1'-0''$$

$$1/4'' = 1'-0''$$

www.grimmandparker.com



5

E

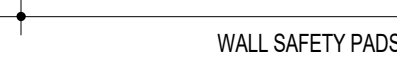
DE NC

12/22/2023
BID SET

© GRAMM AND PARKER ARCHITECTURE, INC.

(NOTES APPLY TO ALL
INTERIOR ELEVATION SHEETS)

1. WALL BASE IS AS SCHEDULED. U.O.N. WALL BASE IS TO BE INSTALLED AT ALL AREAS AND IS NOT REPRESENTED ON ELEVATIONS.
2. CASEWORK IN CONTRACT IS AS SCHEDULED.
3. WALL FINISH TO BE PAINTED, U.O.N.
4. WHERE BULKHEADS ARE PAINTED, ALL EXPOSED FACES TO BE PAINTED THE SAME COLOR.
5. AT MILLWORK ALL S.O.D. SURFACE EDGES TO BE EASED EDGES.
6. REFER TO MATERIALS SCHEDULE FOR FINISH TAGS DETAILED FINISH INFORMATION.


$$1/4'' = 1'-0''$$

$$\frac{1}{4}'' = 1' 0''$$

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandparker.com



GP #22105

INTERIOR ELEVATIONS

NORTH EAST MIDDLE / HIGH SCHOOL

3300 RISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

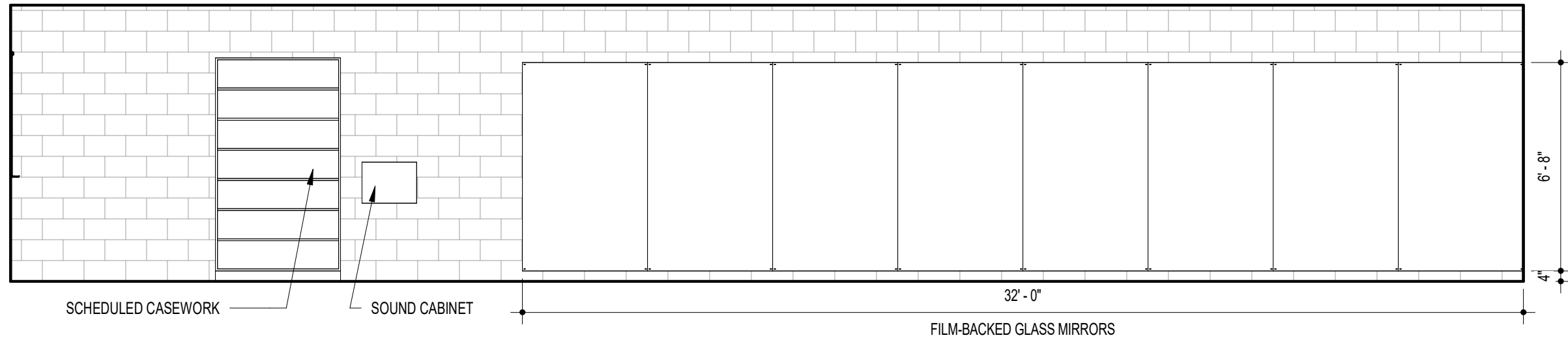
A603

12/22/2023
BID SET

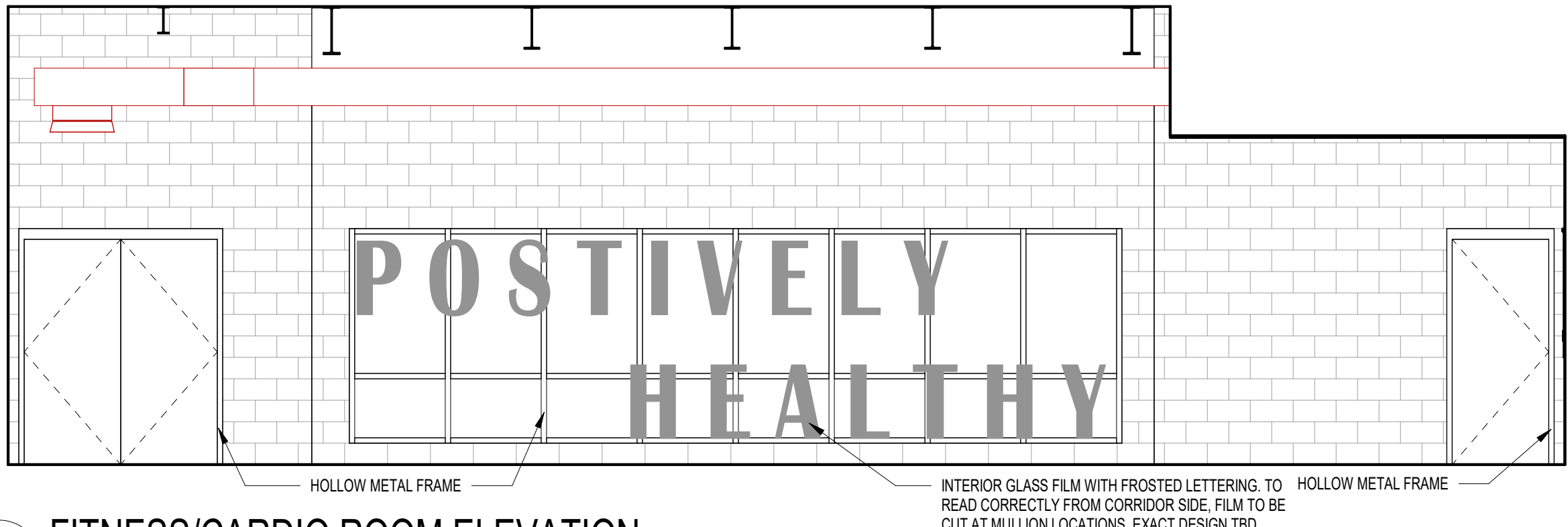
© GRAMM AND PARKER ARCHITECTURE, INC.

INTERIOR ELEVATION NOTES (NOTES APPLY TO ALL INTERIOR ELEVATION SHEETS)

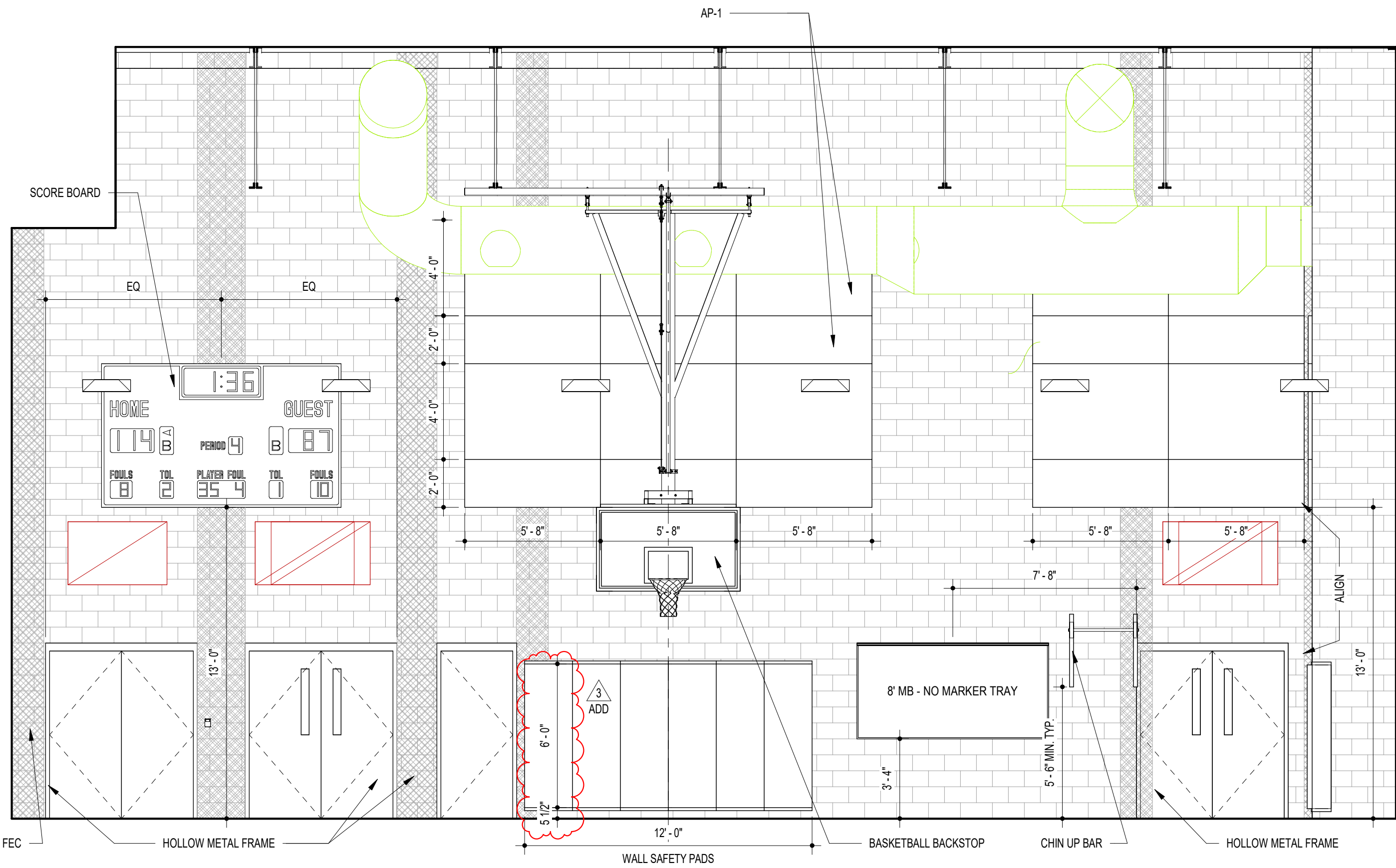
1. WALL BASE IS AS SCHEDULED. UON. WALL BASE IS TO BE INSTALLED AT ALL AREAS AND IS NOT REPRESENTED ON ELEVATIONS.
2. CASEWORK N CONTRACT IS AS SCHEDULED.
3. WALL FINISH TO BE PAINTED, UON.
4. WHERE BULKHEADS ARE PAINTED, ALL EXPOSED FACES TO BE PAINTED THE SAME COLOR.
5. AT MILLWORK ALL SOD SURFACE EDGES TO BE BASED EDGES.
6. REFER TO MATERIALS SCHEDULE FOR FINISH TAGS DETAILED FINISH INFORMATION.



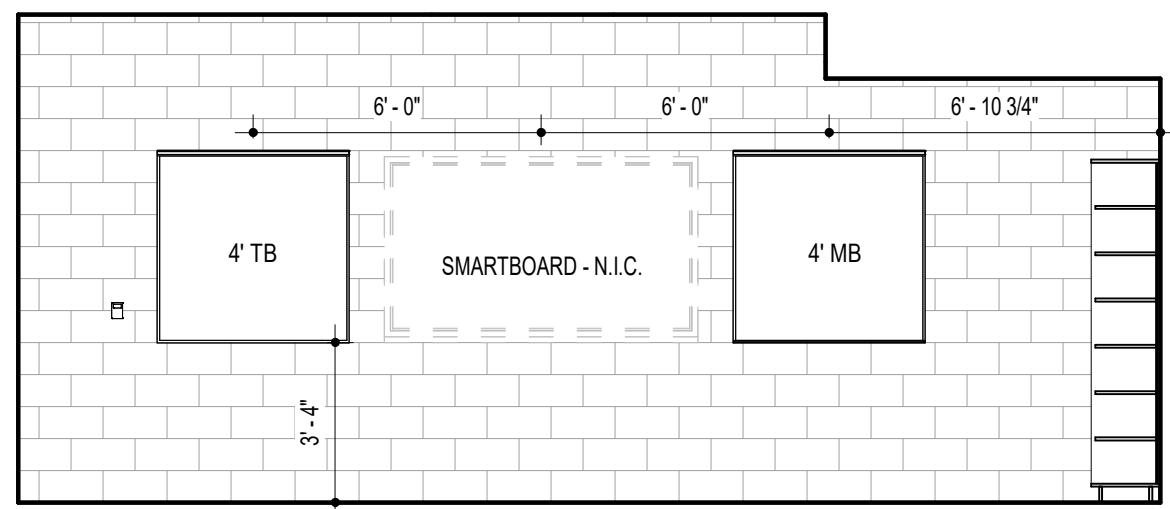
L11 FITNESS/CARDIO ROOM ELEVATION
1/4" = 1'-0"



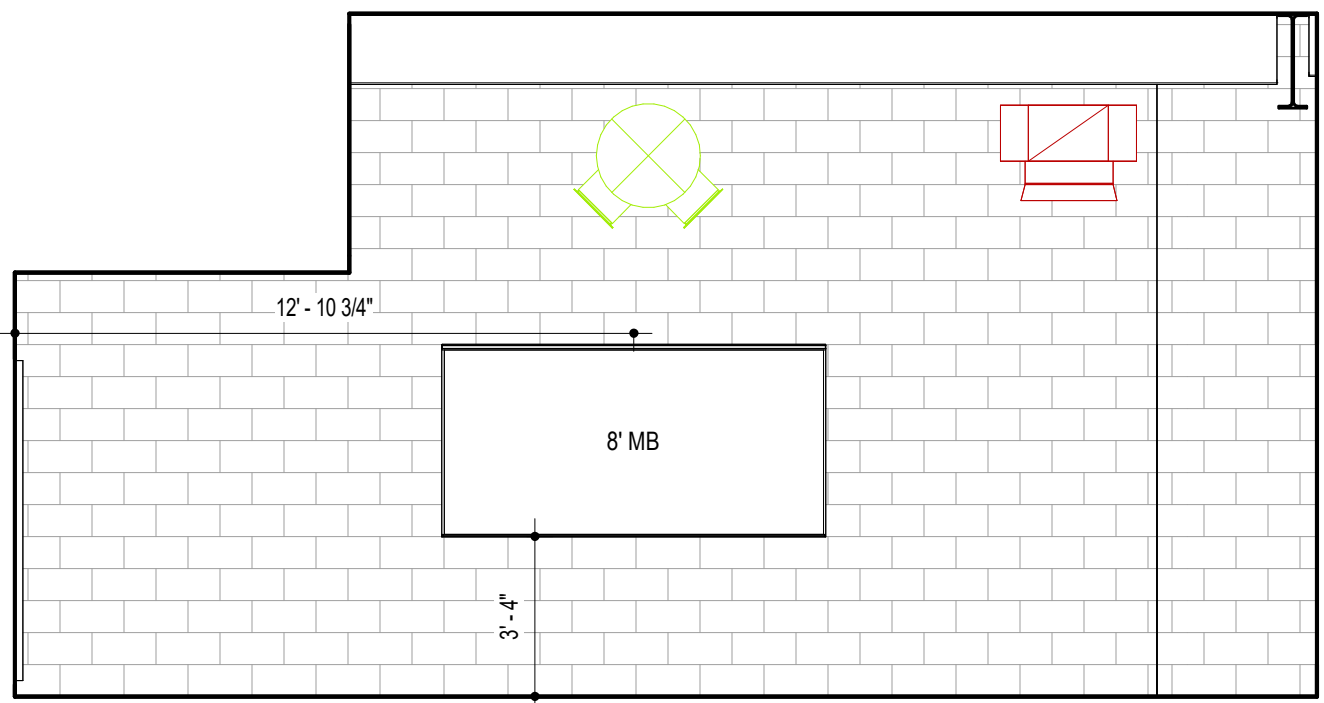
L7 FITNESS/CARDIO ROOM ELEVATION
1/4" = 1'-0"



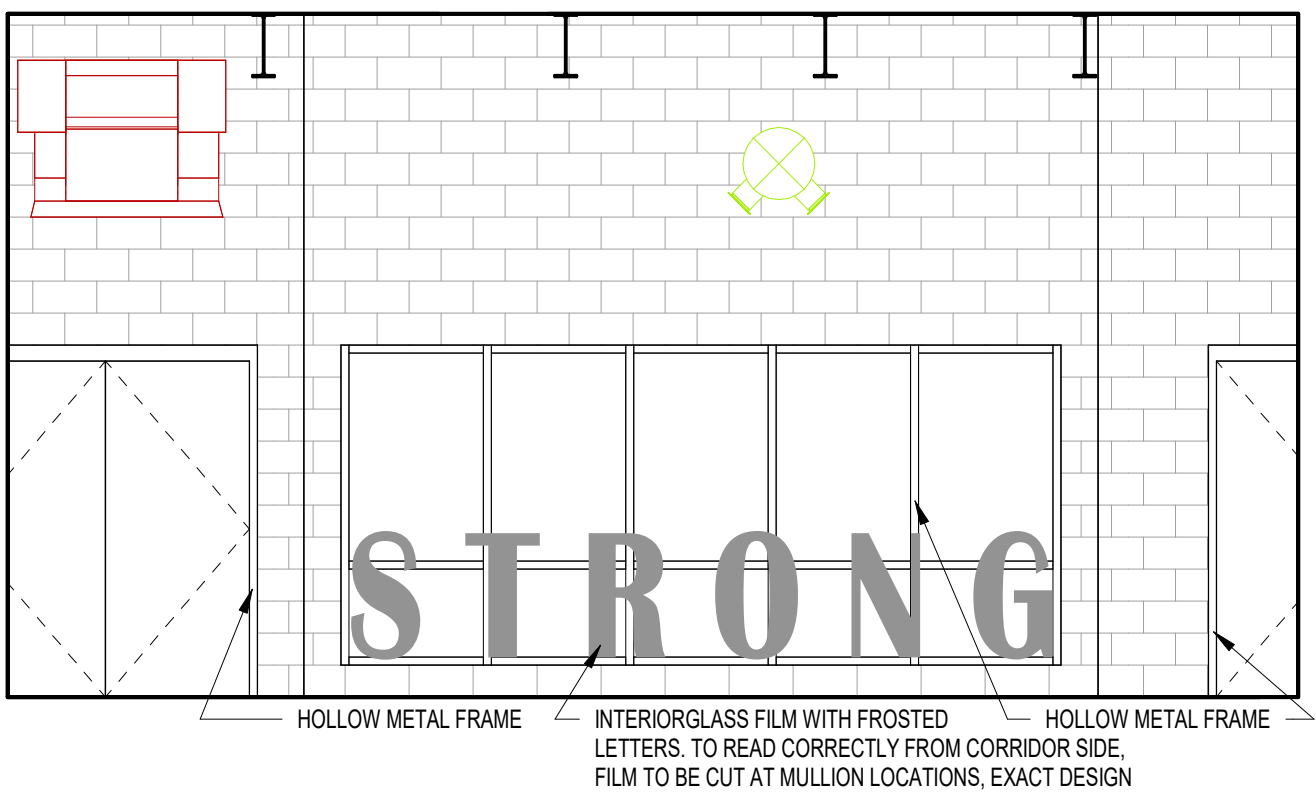
F18 MS GYM ELEVATION
1/4" = 1'-0"



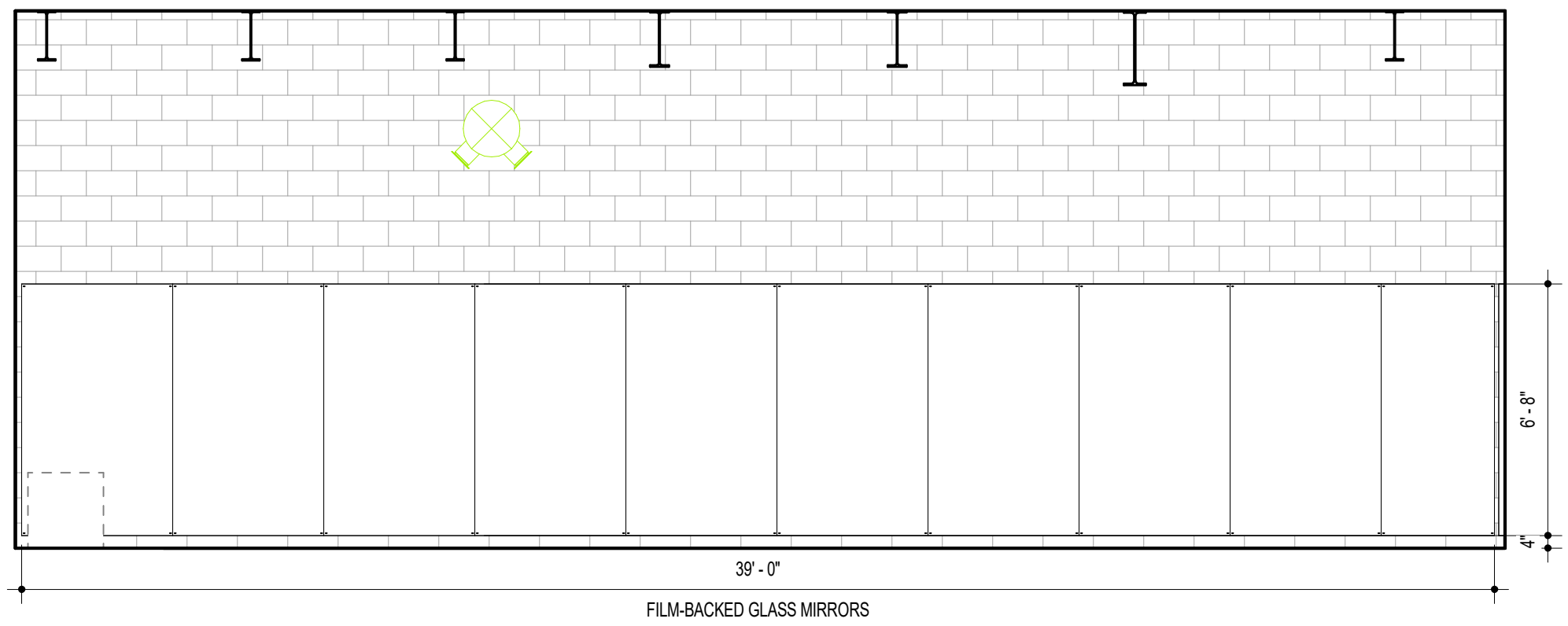
H10 FITNESS/CARDIO ROOM ELEVATION
1/4" = 1'-0"



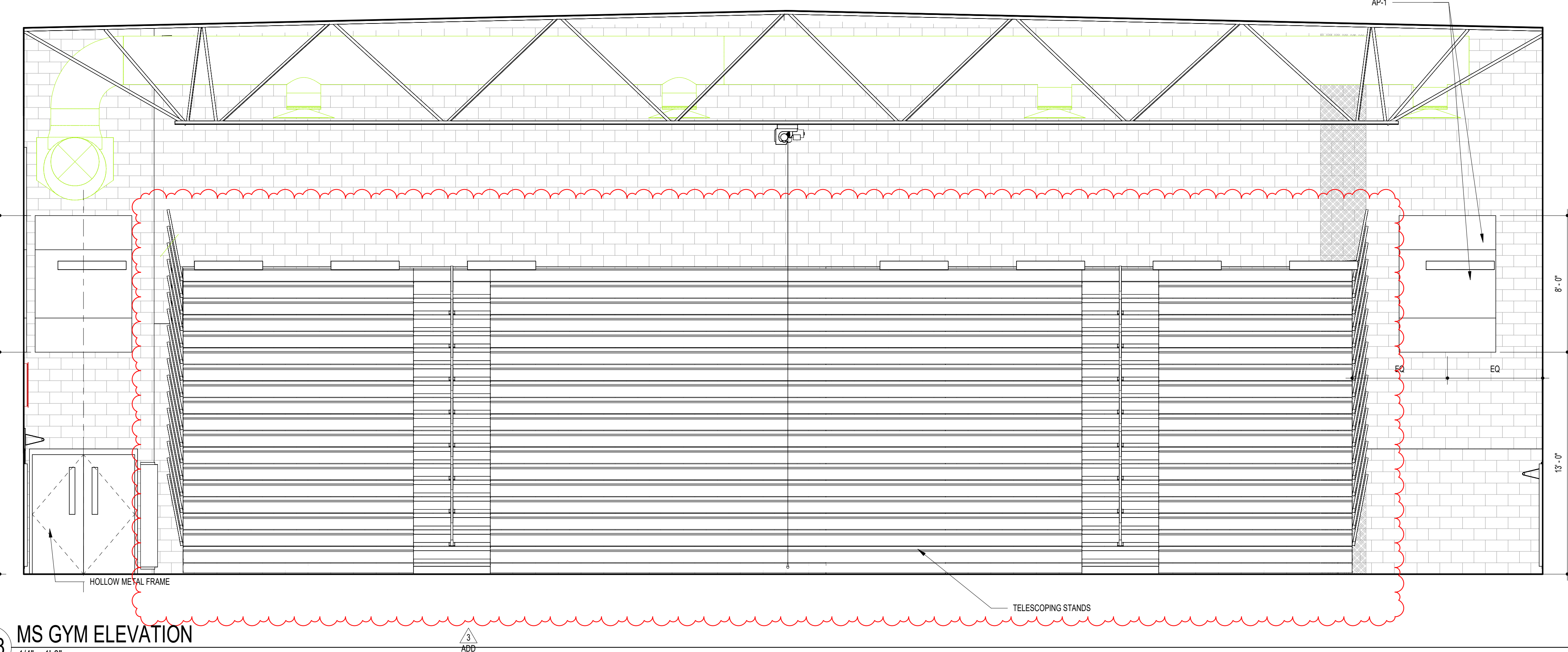
H5 FITNESS/CARDIO ROOM ELEVATION
1/4" = 1'-0"



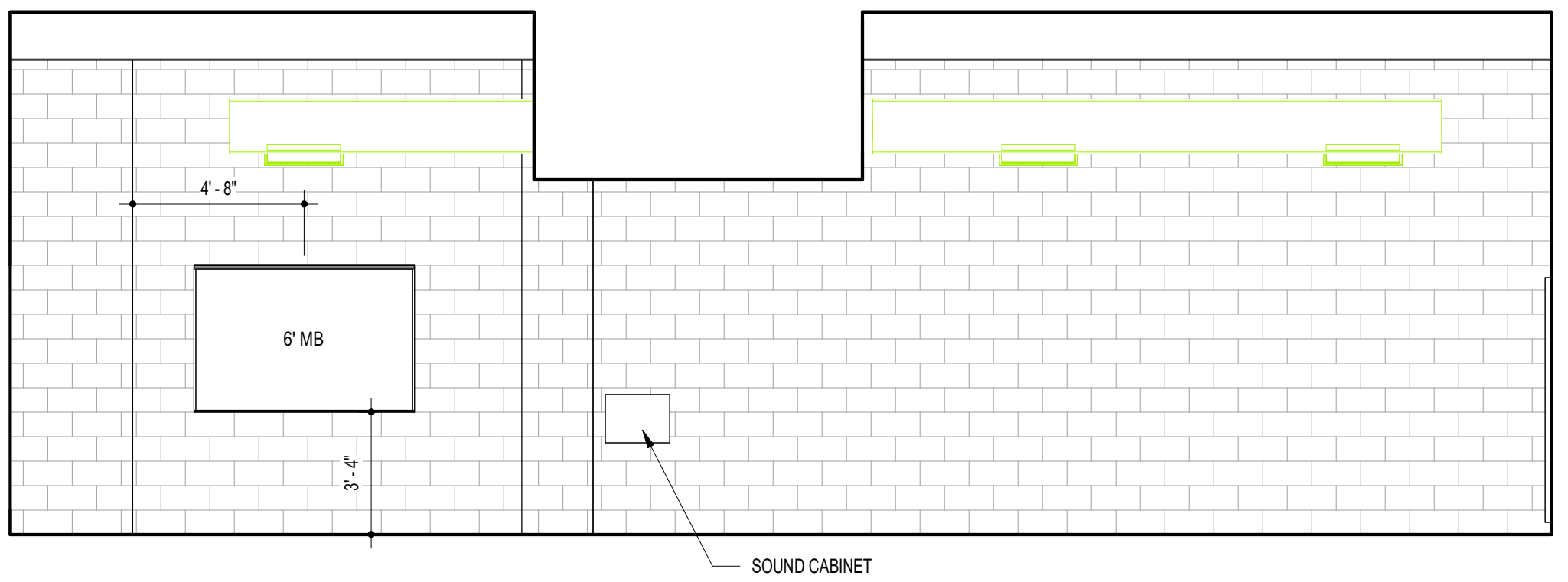
F11 HS WEIGHT ROOM ELEVATION
1/4" = 1'-0"



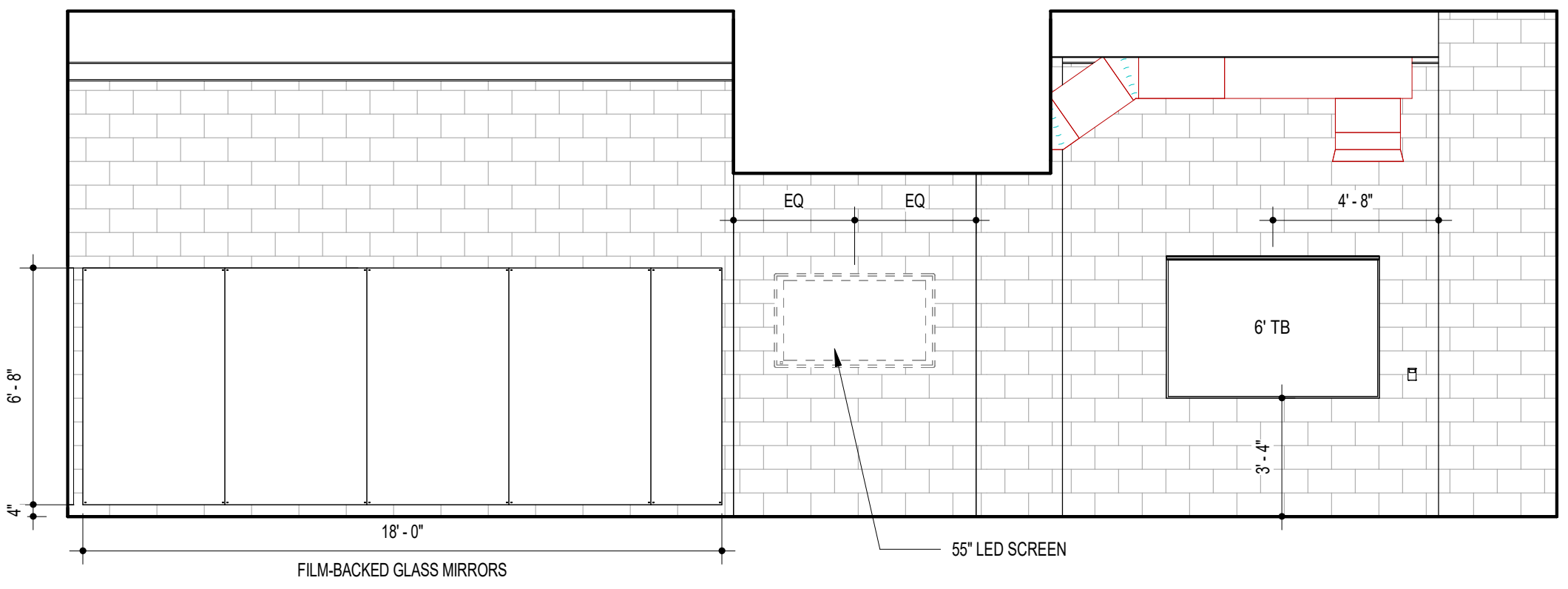
F6 HS WEIGHT ROOM ELEVATION
1/4" = 1'-0"



A18 MS GYM ELEVATION
1/4" = 1'-0"



D6 HS WEIGHT ROOM ELEVATION
1/4" = 1'-0"



A6 HS WEIGHT ROOM ELEVATION
1/4" = 1'-0"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000



GP #22105

INTERIOR ELEVATIONS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

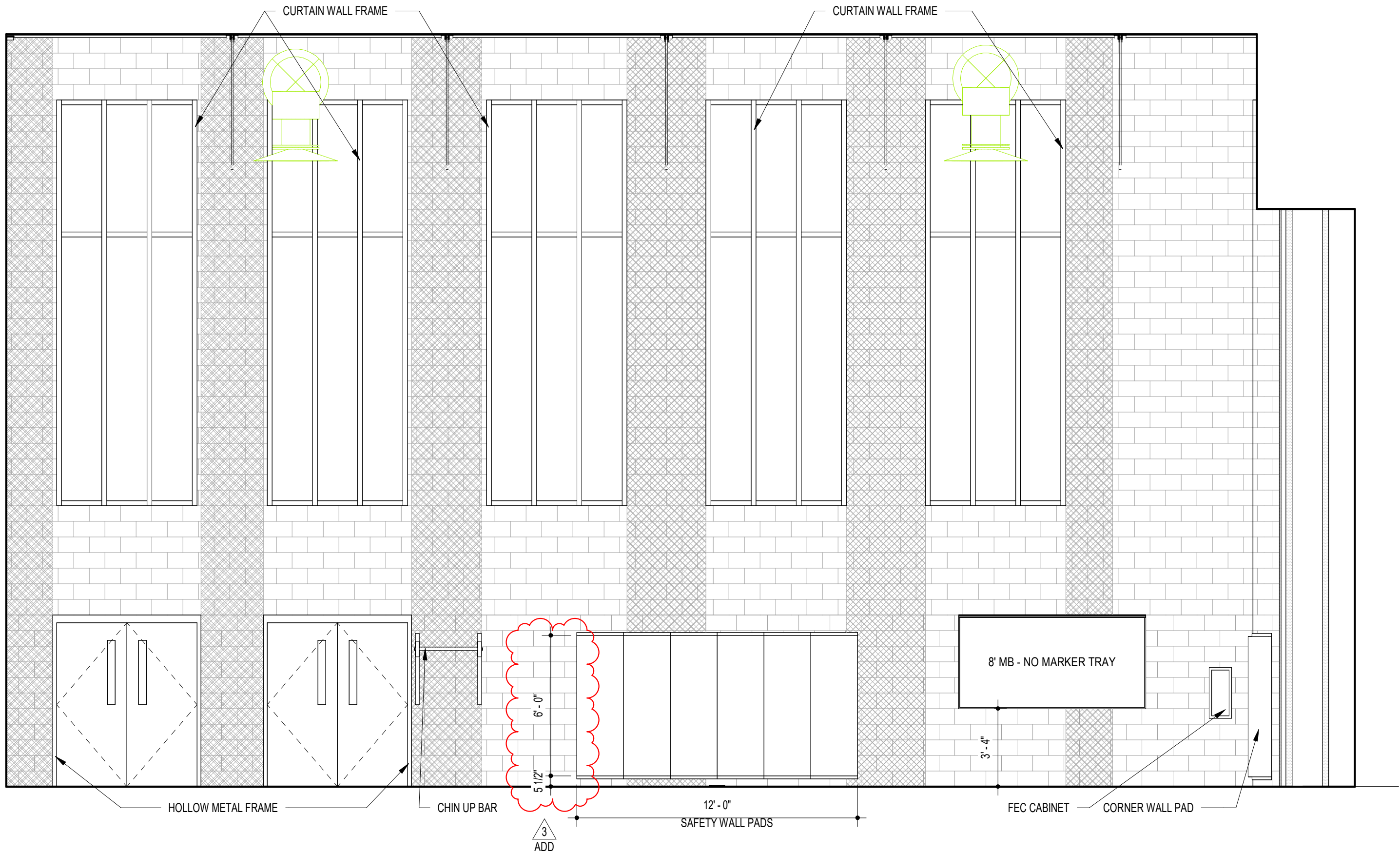
A604

12/22/2023
BID SET

INTERIOR ELEVATION NOTES

(NOTES APPLY TO ALL INTERIOR ELEVATION SHEETS)

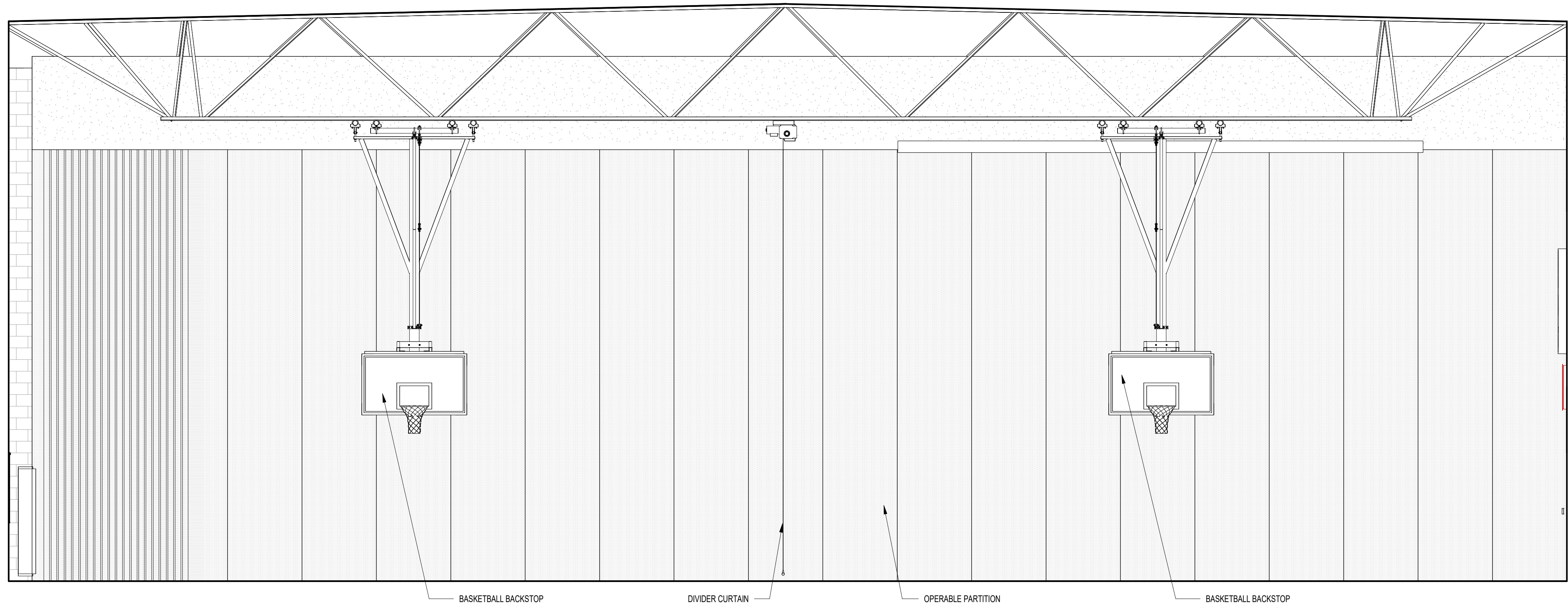
1. WALL BASE IS AS SCHEDULED. UON. WALL BASE IS TO BE INSTALLED AT ALL AREAS AND IS NOT REPRESENTED ON ELEVATIONS.
2. CASEWORK IN CONTRACT IS AS SCHEDULED.
3. WALL FINISH TO BE PAINTED, UON.
4. WHERE BULKHEADS ARE PAINTED, ALL EXPOSED FACES TO BE PAINTED THE SAME COLOR.
5. AT MILLWORK ALL SOD SURFACE EDGES TO BE BEADED EDGES.
6. REFER TO MATERIALS SCHEDULE FOR FINISH TAGS DETAILED FINISH INFORMATION.



G18

MS GYM ELEVATION

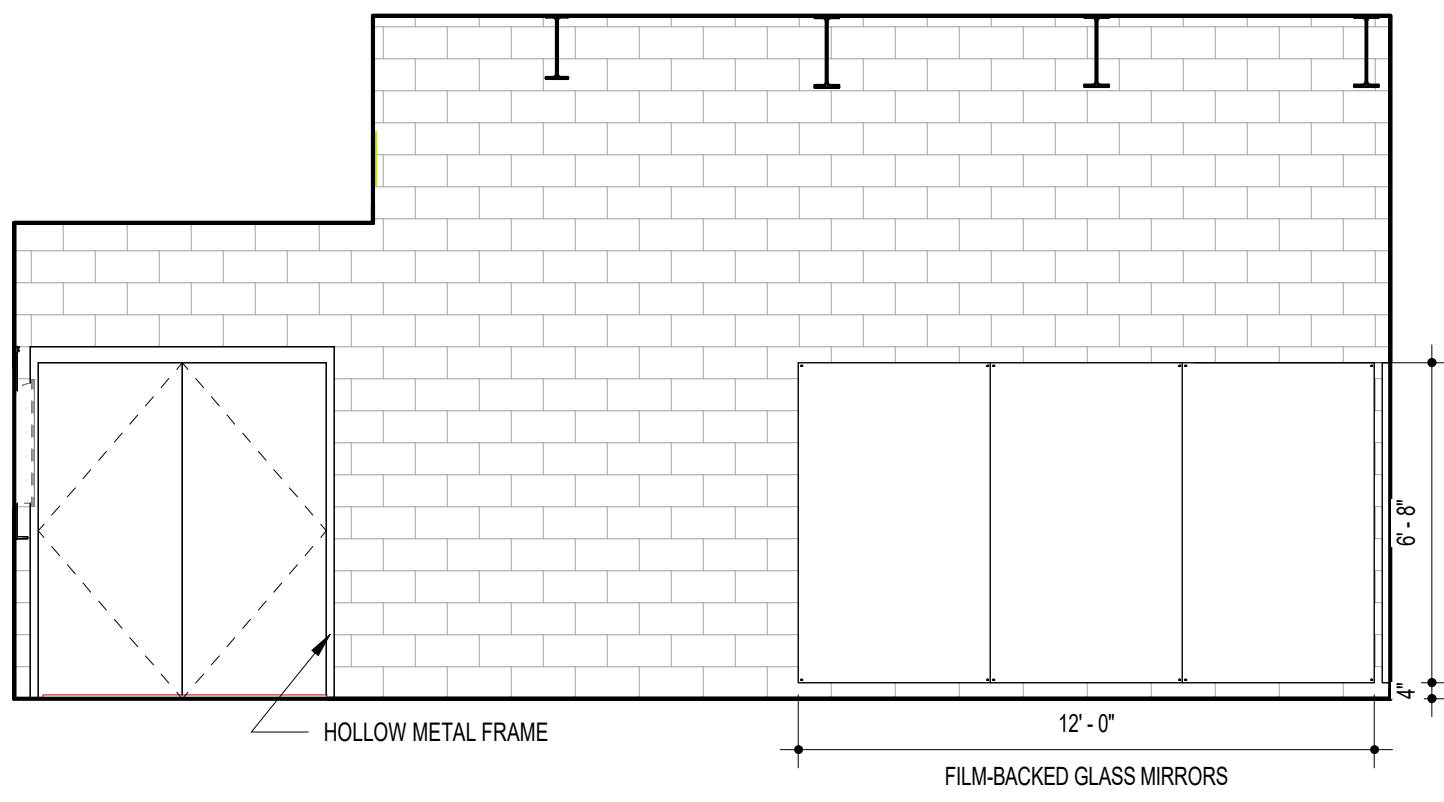
1/4" = 1'-0"



A18

MS GYM ELEVATION

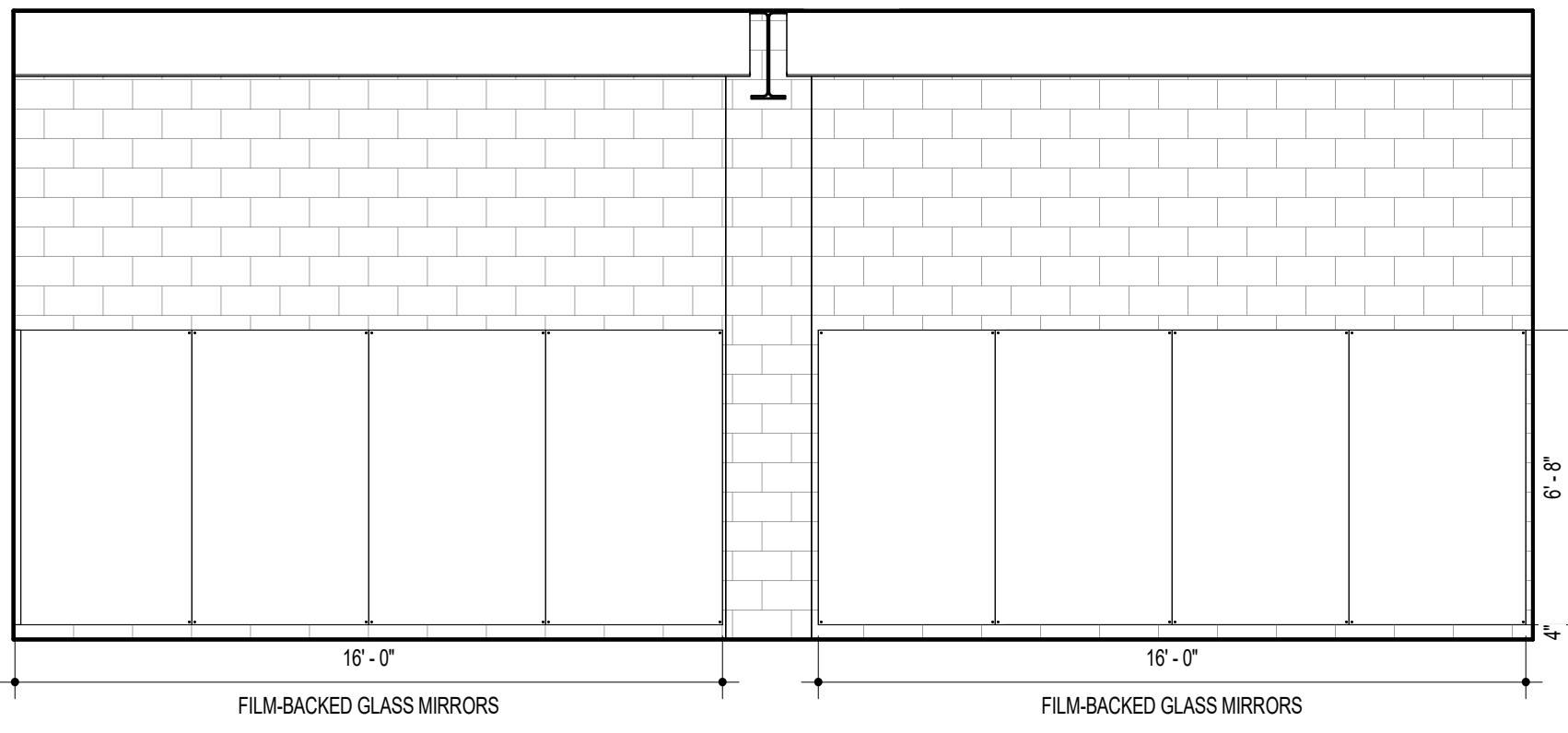
1/4" = 1'-0"



K5

MS WEIGHT ROOM ELEVATION

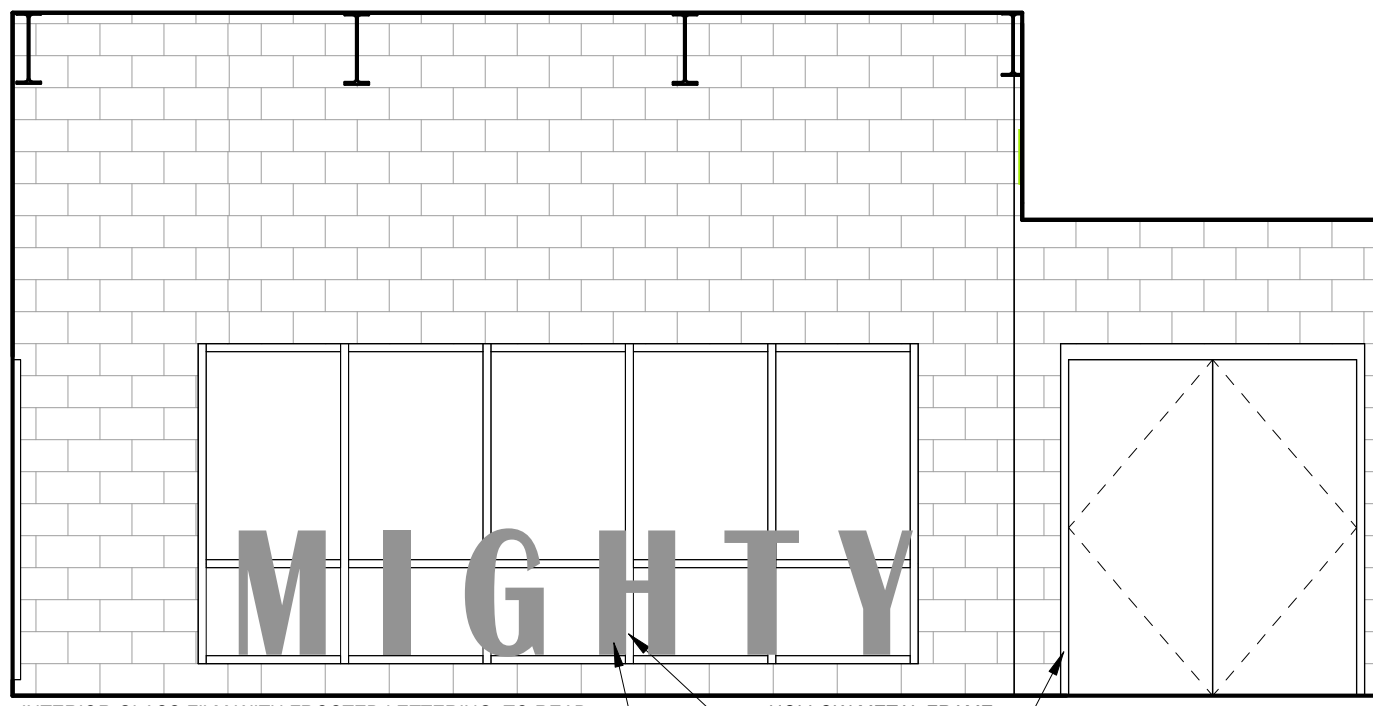
1/4" = 1'-0"



G6

MS WEIGHT ROOM ELEVATION

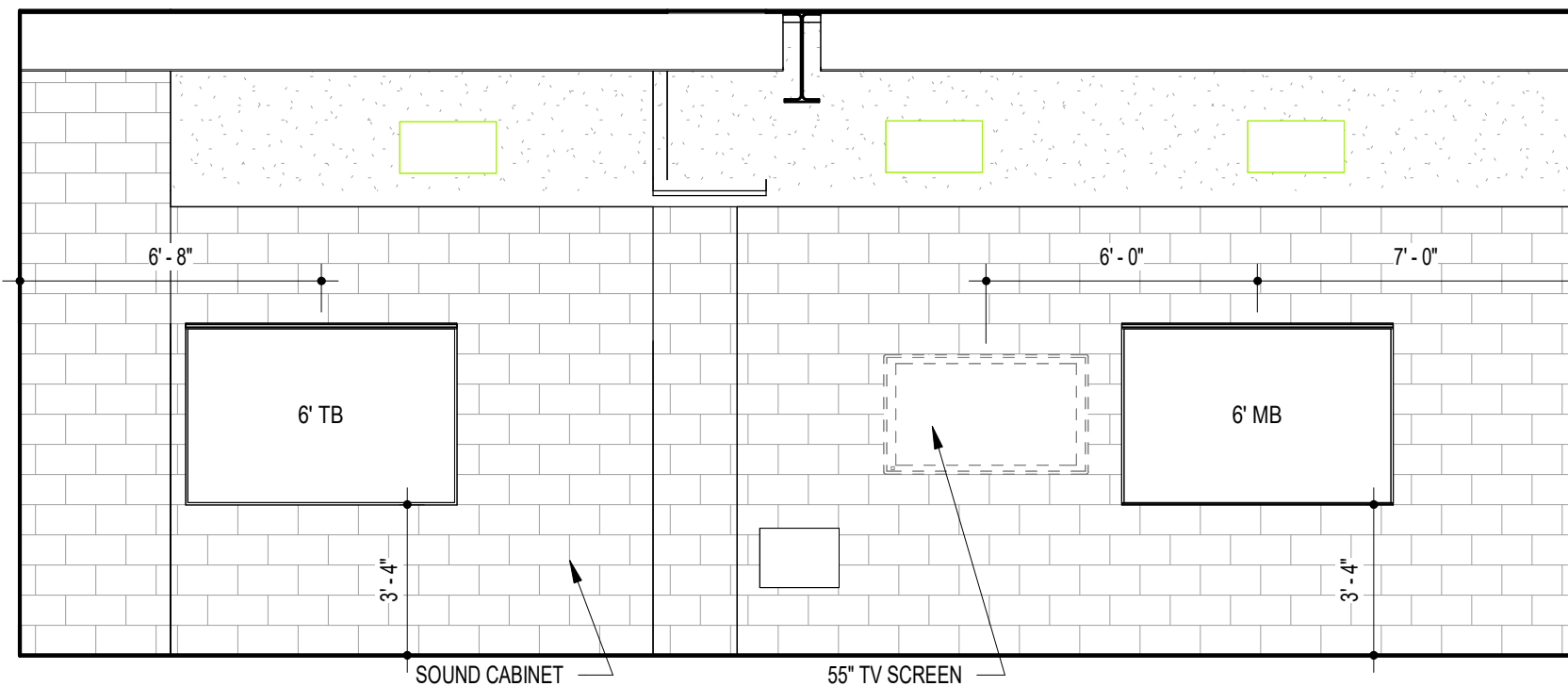
1/4" = 1'-0"



D5

MS WEIGHT ROOM ELEVATION

1/4" = 1'-0"



A6

MS WEIGHT ROOM ELEVATION

1/4" = 1'-0"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandparker.com



GP #22105

INTERIOR ELEVATIONS

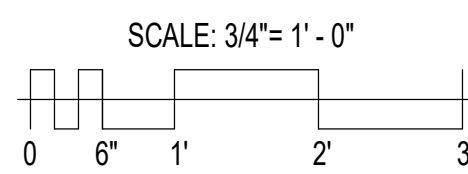
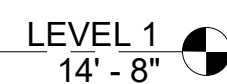
NORTH EAST MIDDLE / HIGH SCHOOL

300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A605

12/22/2023
BID SET


$$\frac{1}{4}'' = 1'-0''$$

$$1/4'' = 1'-0''$$


M

L

K

J

H

G

F

E

D

C

B

A

LOCKER SCHEDULE						
ITEM	DESCRIPTION	MANUF.	MANUF. #	DEPTH	HEIGHT	WIDTH
LK1	SINGLE-TIER LOCKER	SEE SPEC.	SEE SPEC.	1'-0"	3'-0"	1'-0"
LK2	DOUBLE-TIER LOCKER	SEE SPEC.	SEE SPEC.	1'-0"	6'-0"	1'-0"
LK3	DOUBLE-TIER LOCKER	SEE SPEC.	SEE SPEC.	1'-0"	6'-0"	1'-3"
LK4	5-TIER ATHLETIC LOCKER	SEE SPEC.	SEE SPEC.	1'-0"	5'-0"	1'-0"
LK5	AIR PRO LOCKER	Wenger Corporation	SEE SPEC.	1'-2 7/8"	5'-10"	2'-0"
LK6	AIR PRO LOCKER W/ BENCH	Wenger Corporation	SEE SPEC.			
LK7	DOUBLE-TIER LOCKER	SEE SPEC.	SEE SPEC.	1'-3"	6'-0"	1'-0"
LK8	3-TIER LOCKER	SEE SPEC.	SEE SPEC.	1'-0"	6'-0"	1'-0"

FURNISHING SCHEDULE - MEDIA CENTER						
ITEM	DESCRIPTION	SIZE (INCHES)			MANUF.	REMARKS
		W	D	H		
L1	MOBILE BOOKSHELF, DOUBLE - STARTER	36	24	36	MONTEL AETNASTAK	ON CASTERS
L3	BOOKSHELF, SINGLE - STARTER	36	12	66	MONTEL AETNASTAK	L663612FB
L5	MAGAZINE/PAMPHLET RACK	36	12	66	MONTEL AETNASTAK	LPF66
L7	BOOKSHELF, SINGLE - STARTER	36	12	36	MONTEL AETNASTAK	L363612FB

FURNISHING SCHEDULE - METAL SHELVING						
ITEM	DESCRIPTION	SIZE (INCHES)			MANUF.	REMARKS
		W	D	H		
A	OPEN METAL SHELVING	36	12	87	PER SPEC.	PER SPEC.
B	OPEN METAL SHELVING	36	18	87	PER SPEC.	PER SPEC.
C	OPEN METAL SHELVING	36	24	87	PER SPEC.	PER SPEC.
D	OPEN METAL SHELVING	48	18	87	PER SPEC.	PER SPEC.
E	OPEN METAL SHELVING	48	24	87	PER SPEC.	PER SPEC.
F	OPEN METAL SHELVING	48	30	87	PER SPEC.	PER SPEC.

FURNISHING SCHEDULE - MUSIC						
ITEM	DESCRIPTION	SIZE (INCHES)			MANUF.	REMARKS
		W	D	H		
M2	STANDARD CABINET #2	28	29	86	WENGER	2
M3	STANDARD CABINET #3			86	WENGER	3
M4	STANDARD CABINET #4	28	29	86	WENGER	4
M5	STANDARD CABINET #5	28	39	86	WENGER	5
M10	STANDARD CABINET #10	28	29	86	WENGER	10
M11	STANDARD CABINET #11	28	39	86	WENGER	11
M12	STANDARD CABINET #12	48	29	86	WENGER	12
M13	STANDARD CABINET #13	14	29	86	WENGER	13
M15	STANDARD CABINET #15	48	29	86	WENGER	15
M70	STANDARD CABINET #70	28	19	86	WENGER	70
M71	STANDARD CABINET #71	28	29	86	WENGER	71
M72	STANDARD CABINET #72	28	29	86	WENGER	72
M73	STANDARD CABINET #73	28	39	86	WENGER	73
M74	STANDARD CABINET #74	28	29	86	WENGER	74
M75	STANDARD CABINET #75	28	39	86	WENGER	75
M77	SHEET MUSIC STORAGE	16	44	62	WENGER	173G700
M78	CHORAL FOLIO CABINET MOBILE	52	18	51	WENGER	146M024
M79	INSTRUMENTAL FOLIO CABINET MOBILE	32	18	51	WENGER	146M032
M80	SOUNDLOK	128	83	90	WENGER	W/ VERTICAL AND HORIZONTAL CLOSURES AS NEEDED

FURNISHING SCHEDULE - COUNTERTOPS						
ITEM	DESCRIPTION	SIZE (INCHES)		MANUF.	MANUF. #	REMARKS
		D	H			
C1	30"H COUNTER TOP W/ 4" BACKSPLASH	25	30	SEE SPEC.	SEE SPEC.	SEE DETAIL A11/A804
C2	30"H COUNTER TOP W/ 2" BACKSPLASH	25	30	SEE SPEC.	SEE SPEC.	SEE DETAIL A11/A804
C3	42"H COUNTER TOP W/ 2" BACKSPLASH	25	42	SEE SPEC.	SEE SPEC.	SEE DETAIL A11/A804
C4	42"H COUNTER TOP	25	42	SEE SPEC.	SEE SPEC.	SEE DETAIL D7/A804
C5	42"H COUNTER TOP	25	42	SEE SPEC.	SEE SPEC.	SEE DETAIL D7/A804
C6	42"H COUNTER TOP	25	42	SEE SPEC.	SEE SPEC.	SEE DETAIL J14/A804
C7	BUTCHER BLOCK COUNTER TOP	25	36	DIVERSIFIED WOODCRAFTS, INC.	247866	
C8	36"H STAINLESS STEEL COUNTER TOP	25	36	SEE SPEC.	SEE SPEC.	
C9	36"H COUNTER TOP W/ 4" BACKSPLASH	18	36	SEE SPEC.	SEE SPEC.	SEE DETAIL A11/A804
C10	30"H COUNTER TOP W/ 2" BACKSPLASH	24	30	SEE SPEC.	SEE SPEC.	SEE DETAIL A11/A804

FURNISHING SCHEDULE - PE EQUIPMENT					
ITEM	DESCRIPTION	MANUF.	MANUF. #	REMARKS	
P1	DOUBLE MAT SLING & HOIST	Performance Sports Systems	4080-B		
P2	CLIMBING WALL	EVERLAST CLIMBING INDUSTRIES, INC.	TRVERSE WALL SYSTEM	WITH MATS AND MAT LOOKING SYSTEM	
P3	MAIN BACKSTOP	Performance Sports Systems	3103	W/ #AFR42 GLASS BACKBOARD	
P4	SIDE BACKSTOP	Performance Sports Systems	3103	W/ #934 WOOD BACKBOARD	
P5	MAIN SCOREBOARD	Daktronics, Inc.	BB-2107		
P6	SIDE SCOREBOARD	Daktronics, Inc.	BB-2142		
P7	CHIN UP BAR	Performance Sports Systems	109		
P8	BATTING CAGE	Performance Sports Systems	4080-70	W/ #4087 NET	
P9	ARCHERY NET	Performance Sports Systems	4020 & 1108	W/ CARRON HEAVY DUTY ARCHERY NET 51404	
P10	ADA BENCH 42"W x 20"D	SEE SPEC.	SEE SPEC.		
P11	BENCH 48"W x 12"D	SEE SPEC.	SEE SPEC.		
P12	GYM DIVIDER CURTAIN	Draper, Inc.	SEE SPEC.		
P13	BENCH 48"W x 12"D	SEE SPEC.	SEE SPEC.		
P14	VOLLEYBALL STANDARD	SEE SPEC.	SEE SPEC.	SEE DETAIL H12/A426	

EQUIPMENT SCHEDULE				
ITEM	DESCRIPTION	MANUF.	MANUF. #	REMARKS
E1	REFRIGERATOR - ADA COMPLIANT	GE APPLIANCES	GTE22JNRSS	LOCKABLE IN NURSE'S OFFICES A154 & A158
E2	STUDENT RANGE	GE APPLIANCES	JB480SMSS	
E3	DISHWASHER	GE APPLIANCES	GD1226SLSS	
E4	ATHLETIC WASHER	UNIMAC	UW108SV4	ELECTRICALLY POWERED
E5	ATHLETIC DRYER	UNIMAC	U1075RVN	ELECTRICALLY POWERED
E6	MICROWAVE			N.I.C.
E7	STUDENT RANGE EXHAUST HOOD	GE APPLIANCES	JVX305JSS	
E8	ICE MACHINE	MANITOWOC	URF-0310A	
E9	STACKED WASHER & DRYER	GE APPLIANCES	GDZ7EESNWW	
E10	UNDER COUNTER REFRIGERATOR	SUMMIT APPLIANCES	AL55	
E11	WENDING MACHINE			N.I.C.
E12	INSTRUCTOR'S COOKTOP	SUMMIT APPLIANCES	CR483011B	
E13	STUDENT ISLAND RANGE EXHAUST HOOD	GE APPLIANCES	JVW6801SJSS	
E14	INSTRUCTORS RANGE EXHAUST HOOD	GE APPLIANCES	PV977NSS	
E15	MOBILE CHANGER	SMIRTHWAITE MOBI	3123 C-UL	
E16	HOVER LIFT			N.I.C.
E17	FLUME HOOD	ICDesignoff	E-100-4825	
E18	KILN	L&L KILNS	#23T	W/ FURNITURE KIT FLE-K23T00 VENT-SURE DOWNDRAFT VENT WITH M-V-CNTL000 VENT CONTROL

FURNISHING SCHEDULE - GENERAL					
ITEM	DESCRIPTION	SIZE (INCHES)			REMARKS
		W	D	H	
G01	BASE OPEN SHELVING	36	14	25	STEVENS 10101
G02	BASE OPEN SHELVING	36	24	34	STEVENS 10101
G03	BASE OPEN SHELVING	42	24	34	STEVENS 10101
G04	BASE CABINET - 1 DOOR	12	24	34	STEVENS 10120
G07	BASE CABINET - 2 DOOR	24	24	34	STEVENS 10129
G11	BASE CABINET - 2 DOOR	36	24	24	STEVENS 10129
G12	BASE CABINET - 2 DOOR	36	24	34	STEVENS 10129
G13	BASE CABINET - 2 DOOR	39	24	34	STEVENS 10129
G14	BASE CABINET - 2 DOOR	42	24	34	STEVENS 10129
G15	BASE CABINET - 2 DOOR	48	24	34	STEVENS 10129
G16	BASE CABINET - 3 DRAWER	15	24	34	STEVENS 10332
G17	BASE CABINET - 3 DRAWER	36	24	34	STEVENS 10332
G19	BASE CABINET - 5 DRAWERS	15	24	30	STEVENS 10392
G20	BASE CABINET - 6 DRAWERS	48	30	34	STEVENS 10404
G21	SINK BASE - ADA	36	24	34	STEVENS 10576
G22	SINK BASE - CLOSED	36	24	34	STEVENS 10475
G23	WALL OPEN SHELVING	24	14	30	STEVENS 15101
G24	WALL OPEN SHELVING	36	14	18	STEVENS 15101
G25	WALL OPEN SHELVING	36	14	30	STEVENS 15101
G26	WALL OPEN SHELVING	42	14	30	STEVENS 15101
G27	WALL OPEN SHELVING	48	14	30	STEVENS 15101
G28	WALL CABINET - 1 DOOR	15	14	30	STEVENS 15120
G30	WALL CABINET - 2 DOOR	24	14	30	STEVENS 15129
G31	WALL CABINET - 2 DOOR	27	14	30	STEVENS 15129
G32	WALL CABINET - 2 DOOR	30	14	12	STEVENS 15129
G35	WALL CABINET - 2 DOOR	33	14	30	STEVENS 15129
G36	WALL CABINET - 2 DOOR	36	14	18	STEVENS 15129
G37	WALL CABINET - 2 DOOR	36	14	30	STEVENS 15129
G38	WALL CABINET - 2 DOOR	39	14	18	STEVENS 15129
G39	WALL CABINET - 2 DOOR	39	14	30	STEVENS 15129
G40	WALL CABINET - 2 DOOR	42	14	30	STEVENS 15129
G41	WALL CABINET - 2 DOOR	48	14	30	STEVENS 15129
G42	TALL OPEN STORAGE	24	24	85	STEVENS 25101
G43	TALL OPEN STORAGE	36	14	84	STEVENS 25101
G44	TALL OPEN STORAGE	36	24	85	STEVENS 25101
G45	TALL OPEN STORAGE	42	24	85	STEVENS 25101
G46	TALL OPEN STORAGE	48	24	84	STEVENS 25101
G47	TALL CABINET - 2 DOOR	24	24	84	STEVENS 25129
G49	TALL CABINET - 2 DOOR	36	24	84	STEVENS 25129
G50	TALL CABINET - 2 DOOR	48	24	84	STEVENS 25129
G51	TEACHER WARDROBE	24	24	84	STEVENS 25672
G52	TEACHER WARDROBE	36	24	84	STEVENS 25688
G53	TALL METAL SHOP CABINET	24	24	84	STEVENS 25108
G55	TALL METAL SHOP CABINET	36	24	84	STEVENS 25108
G56	BASE CABINET - 2 DOOR	36	22	35	DIVERSIFIED WOODCRAFTS, INC. 103-3622M
G57	TOOL STORAGE CABINET	48	24	84	DIVERSIFIED WOODCRAFTS, INC. TETC-40
G58	CLAY CART PORT	24	24	34	STEVENS 10683
G59	VERTICAL STORAGE	33	30	34	STEVENS 10515
G60	VERTICAL STORAGE	48	30	34	STEVENS 10517
G61	MAILBOX	48	14	30	STEVENS 15255
G62	MAILBOX	48	24	84	STEVENS 10239
G64	DISPLAY CASE - 4'-0"W x 5'-4"H x 1'-0"D	48	12	64	SEE SPEC.
G65	DISPLAY CASE - 4'-0"W x 5'-4"H x 1'-4"D	48	16	64	SEE SPEC.
G66	DISPLAY CASE - 5'-0"W x 5'-4"H x 0'-3"D POSTER	60	3	64	SEE SPEC.
G67	DISPLAY CASE - 5'-0"W x 5'-4"H x 1'-0"D	60	12	64	SEE SPEC.
G68	DISPLAY CASE - 5'-0"W x 5'-4"H x 1'-4"D	60	16	64	SEE SPEC.
G69	DISPLAY CASE - 6'-0"W x 5'-4"H x 1'-4"D	72	16	64	SEE SPEC.
G70	COMBINATION STORAGE - BASE CABINET W/ DRAWERS	36	24	34	STEVENS 10748
G71	DEMONSTRATION ISLAND	98	30	36	STEVENS 35144
G72	TEACHER DESK EXTENSION	48	30	30	STEVENS 35161
G73	WALL CABINET - 1 DOOR	12	14	30	STEVENS 15120
G74	BASE CABINET - 3 DRAWER	12	24	34	STEVENS 10332
G75	TALL OPEN STORAGE	30	24	84	STEVENS 10101
G76	BASE CABINET - 1 DOOR	18	24	34	STEVENS 10120
G77	WALL CABINET - 1 DOOR	18	14	30	STEVENS 15120
G78	BASE CABINET	36	18	30	STEVENS 10129
G79	BASE CABINET	30	18	30	STEVENS 10129
G80	FILE DRAWER	15	18	30	STEVENS 10316
G83	LUMBER/ PLYWOOD STORAGE RACK	4	3	84	DIVERSIFIED WOODCRAFTS, INC. LR-1WM
G84	MAGAZINE/PAMPHLET RACK	36	14	30	STEVENS 22165
G85	BASE OPEN SHELVING	48	14	25	STEVENS 10101
G86	SIGNUM TABLE - BASIC ELEMENT	40	34	BCI LIBRARIES	B 4021 10G XX
G87	SIGNUM TABLE - ADD ON ELEMENT	40	34	BCI LIBRARIES	B 4021 10A XX
G88	WORKBENCH WITH WOOD CABINETS	48		31	DIVERSIFIED WOODCRAFTS, INC. WW31CS
G89	WORKBENCH WITH METAL CABINETS	28		33	DIVERSIFIED WOODCRAFTS, INC. WB84-0V
G91	WORKBENCH WITH VISES	64	54	31	DIVERSIFIED WOODCRAFTS, INC. WW44-4V
G92	BASE OPEN SHELVING	33	24	34	STEVENS 10101
G93	PERSPECTIVE DAMP CABINET	36	18	84	DIVERSIFIED WOODCRAFTS, INC. 9100BL
G94	PERSPECTIVE DRYING CABINET	36	18	84	DIVERSIFIED WOODCRAFTS, INC. 9200BL

FURNISHING SCHEDULE - SCIENCE					
ITEM	DESCRIPTION	SIZE (INCHES)			REMARKS
		W	D	H	
S4	BASE CABINET - 2 DOOR	30	24	34	CAMPBELL RHEA 3681C
S5	BASE CABINET - 2 DOOR	30	30	34	CAMPBELL RHEA 3681C
S6	BASE CABINET - 2 DOOR	36	24	34	CAMPBELL RHEA 3681D
S7	BASE CABINET - 2 DOOR	36	30	34	CAMPBELL RHEA 3681D
S10	BASE CABINET - 4 DRAWERS	24	24	34	CAMPBELL RHEA 3636
S11	BASE CABINET - 4 DRAWERS	24	30	34	CAMPBELL RHEA 3636
S12	WALL CABINET - 2 DOOR	24	14	24	CAMPBELL RHEA 4689
S13	WALL CABINET - 2 DOOR	30	14	24	CAMPBELL RHEA 4693
S14	WALL CABINET - 2 DOOR	36	14	16	C

FURNISHING AND EQUIPMENT NOTES

- NOTE: NOT ALL ITEMS INDICATED ON SCHEDULE ARE REPRESENTED IN THIS PROJECT.
1. ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST 1/4".
 2. DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE COUNTERTOP.
 3. PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS OTHERWISE NOTED.
 4. MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES ONLY. SEE SPECIFICATION FOR FULL CASEWORK REQUIREMENTS.
 5. PROVIDE RESILIENT BASE FOR ALL CASEWORK THAT MEETS THE FLOOR ON FRONT AND EXPOSED SIDES AND BACK.
 6. DOTTED LINES INDICATE WALL HUNG CABINETS. DIVISIONS OF BASE CABINETS BELOW THE COUNTERTOP. FURNITURE NOT IN THE CONTRACT OR PROJECTION SCREENS-SEE CASEWORK KEY AND SPECIFICATIONS.
 7. ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
 8. ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH LAMINATE.
 9. WHERE CASEWORK MEETS A WALL AT ONE OR BOTH ENDS AND JOINT BETWEEN CASEWORK AND WALL EXCEEDS 3/16", PROVIDE FILLER PANEL(S) SCROBED TO WALL. PROVIDE SEALANT AT JOINTS 3/16" OR LESS INCLUDING BETWEEN FILLER PANEL AND WALL.
 10. ALL CABINETS AND DRAWERS IN THE KINDERGARTEN ROOMS TO BE PROVIDED WITH RECESSED HANDLES.
 11. ALL COUNTERTOP CORNERS TO BE 12" RADIUS UNLESS OTHERWISE NOTED.
 12. PROVIDE ADEQUATE BLOCKING IN STUD WALLS AND AT CMU WALLS FOR WALL-MOUNTED EQUIPMENT AND FURNISHINGS.
 13. CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK FABRICATION.
 14. MILLWORK AND CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT. ALL WORK TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS. CONSTRUCTION DETAILS ARE TO BE SUBMITTED IN SHOP DRAWINGS AND ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

GYMNASIUM COURTS

- HIGH SCHOOL GYMNASIUM:
- 1 MAIN REGULATION HS BASKETBALL COURT - 84' X 50'
 - 2 PRACTICE BASKETBALL CROSS COURTS - 74' X 42'
 - 1 MAIN REGULATION VOLLEYBALL COURT - 60' X 30'
 - 2 CROSS COURT REGULATION VOLLEYBALL COURTS - 60' X 30'
- MIDDLE SCHOOL GYMNASIUM:
- 1 MAIN REGULATION MS BASKETBALL COURT 74' X 42'
 - 4 CROSS COURT BASKETS
 - 1 MAIN REGULATION VOLLEYBALL COURT - 60' X 30'
 - 3 CROSS COURT PRACTICE VOLLEYBALL COURTS - 42' X 21'

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000



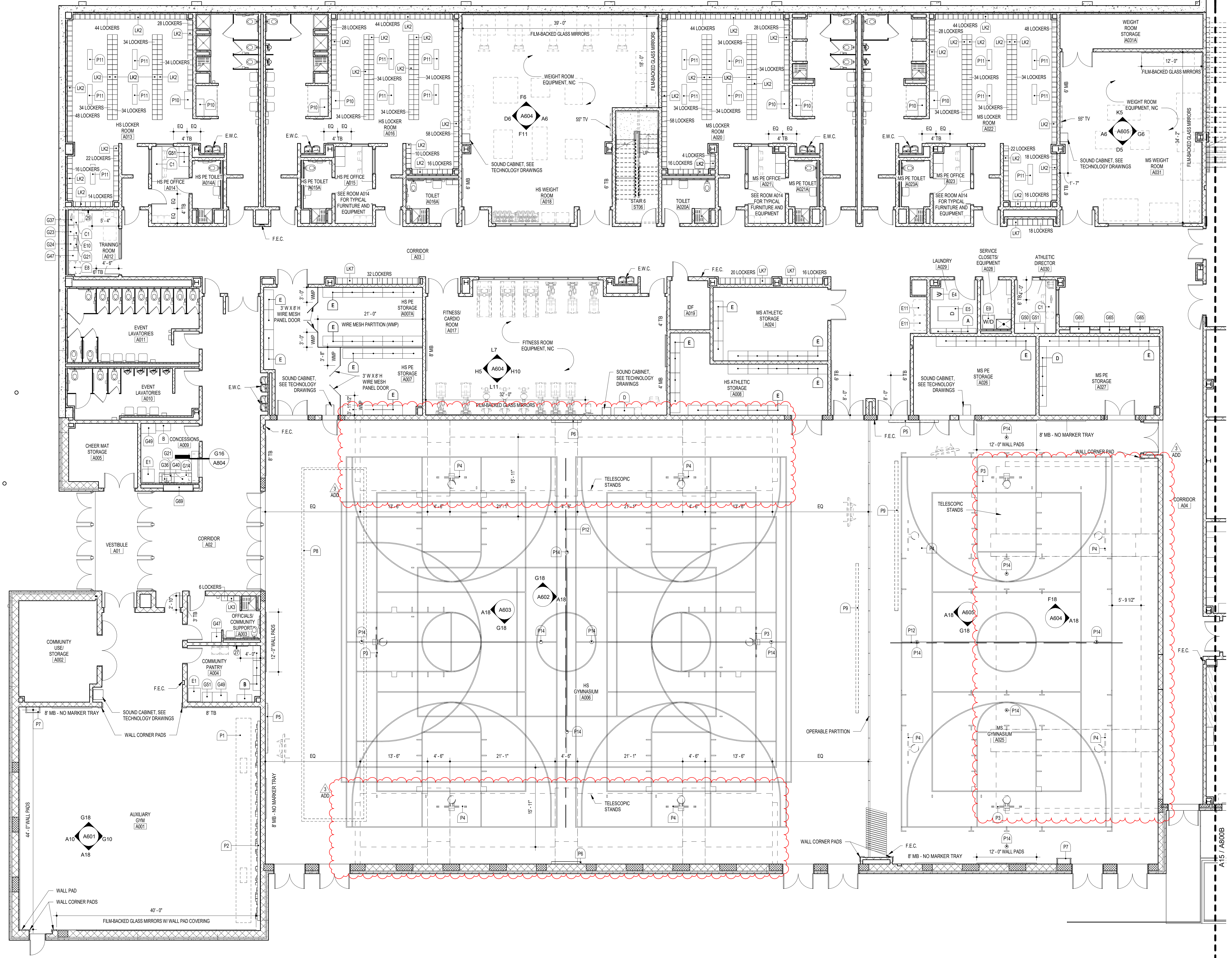
GP #22105

LEVEL 00 AREA A FURNITURE PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

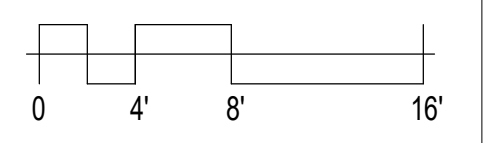
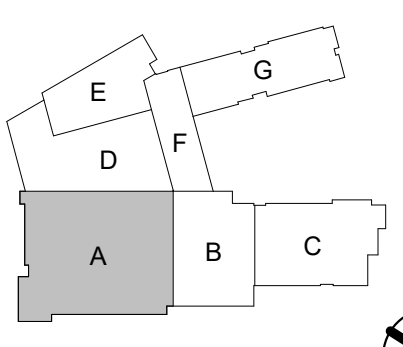
A800A

12/22/2023
BID SET



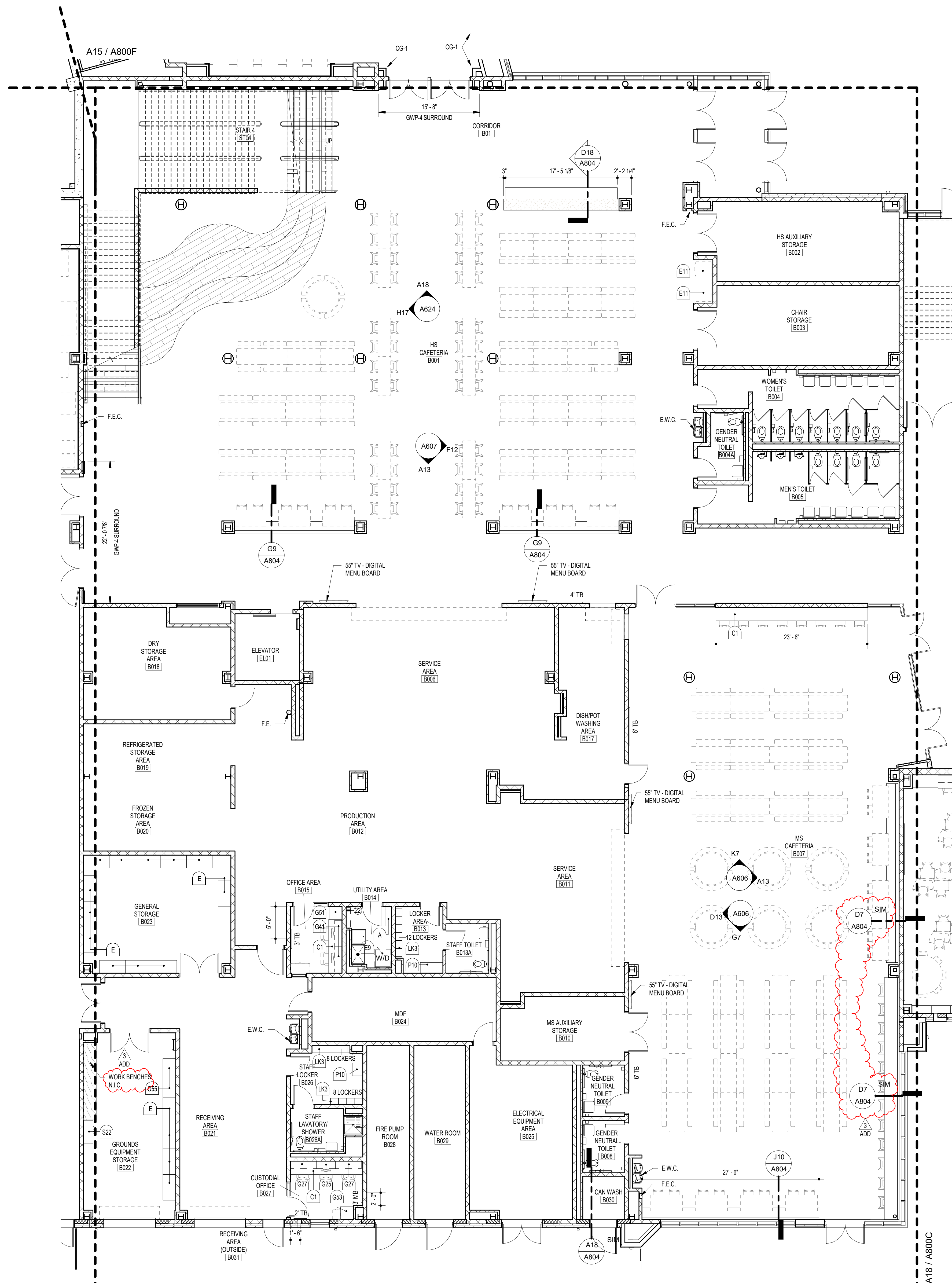
A18 PARTIAL FIRST FLOOR FURNITURE PLAN - AREA A
1/8" = 1'-0"

KEY PLAN



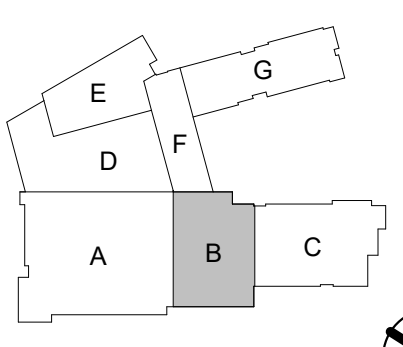
FURNISHING AND EQUIPMENT NOTES

- NOTE: NOT ALL ITEMS INDICATED ON SCHEDULE ARE REPRESENTED IN THIS PROJECT.
1. ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST INCH.
 2. DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE COUNTERTOP.
 3. PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS OTHERWISE NOTED.
 4. MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES ONLY. SEE SPECIFICATION FOR FULL CASEWORK REQUIREMENTS.
 5. PROVIDE RESILIENT BASE FOR ALL CASEWORK THAT MEETS THE FLOOR ON FRONT AND EXPOSED SIDES AND BACK.
 6. DOTTED LINES INDICATE WALL HUNG CABINETS, DIVISIONS OF BASE CABINETS BELOW THE COUNTERTOP. FURNITURE NOT IN THE CONTRACT OR PROJECTION SCREENS-SEE CASEWORK KEY AND SPECIFICATIONS.
 7. ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
 8. ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH LAMINATE.
 9. WHERE CASEWORK MEETS A WALL AT ONE OR BOTH ENDS AND JOINT BETWEEN CASEWORK AND WALL EXCEEDS 3/16", PROVIDE FILLER PANEL(S) SCRIBED TO WALL. PROVIDE SEALANT AT JOINTS 3/16" OR LESS INCLUDING BETWEEN FILLER PANEL AND WALL.
 10. ALL CABINETS AND DRAWERS IN THE KINDERGARTEN ROOMS TO BE PROVIDED WITH RECESSED HANDLES.
 11. ALL COUNTERTOP CORNERS TO BE 12" RADUSED UNLESS OTHERWISE NOTED.
 12. PROVIDE ADEQUATE BLOCKING IN STUD WALLS AND AT CMU WALLS FOR WALL-MOUNTED EQUIPMENT AND FURNISHINGS.
 13. CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK FABRICATION.
 14. MILLWORK AND CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT. ALL WORK TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS. CONSTRUCTION DETAILS ARE TO BE SUBMITTED IN SHOP DRAWINGS AND ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT.



A15 PARTIAL FIRST FLOOR FURNITURE PLAN - AREA B
1/8" = 1'-0"

KEY PLAN



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com



GP #22105

LEVEL 00 AREA B FURNITURE PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A800B
12/22/2023
BID SET

FURNISHING AND EQUIPMENT NOTES

- NOTE: NOT ALL ITEMS INDICATED ON SCHEDULE ARE REPRESENTED IN THIS PROJECT.
1. ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST 1/4".
 2. DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE COUNTERTOP.
 3. PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS OTHERWISE NOTED.
 4. MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES ONLY. SEE SPECIFICATION FOR FULL CASEWORK REQUIREMENTS.
 5. PROVIDE RESILIENT BASE FOR ALL CASEWORK THAT MEETS THE FLOOR ON FRONT AND EXPOSED SIDES AND BACK.
 6. DOTTED LINES INDICATE WALL HUNG CABINETS, DIVISIONS OF BASE CABINETS BELOW THE COUNTERTOP. FURNITURE NOT IN THE CONTRACT OR PROJECTION SCREENS - SEE CASEWORK KEY AND SPECIFICATIONS.
 7. ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
 8. ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH LAMINATE.
 9. WHERE CASEWORK MEETS A WALL AT ONE OR BOTH ENDS AND JOINT BETWEEN CASEWORK AND WALL EXCEEDS 3/16", PROVIDE FILLER PANEL(S) SCRIBED TO WALL. PROVIDE SEALANT AT JOINTS 3/16" OR LESS INCLUDING BETWEEN FILLER PANEL AND WALL.
 10. ALL CABINETS AND DRAWERS IN THE KINDERGARTEN ROOMS TO BE PROVIDED WITH RECESSED HANDLES.
 11. ALL COUNTERTOP CORNERS TO BE 1/2" RADUSED UNLESS OTHERWISE NOTED.
 12. PROVIDE ADEQUATE BLOCKING IN STUD WALLS AND AT CMU WALLS FOR WALL-MOUNTED EQUIPMENT AND FURNISHINGS.
 13. CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK FABRICATION.
 14. MILLWORK AND CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT. ALL WORK TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS. CONSTRUCTION DETAILS ARE TO BE SUBMITTED IN SHOP DRAWINGS AND ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000

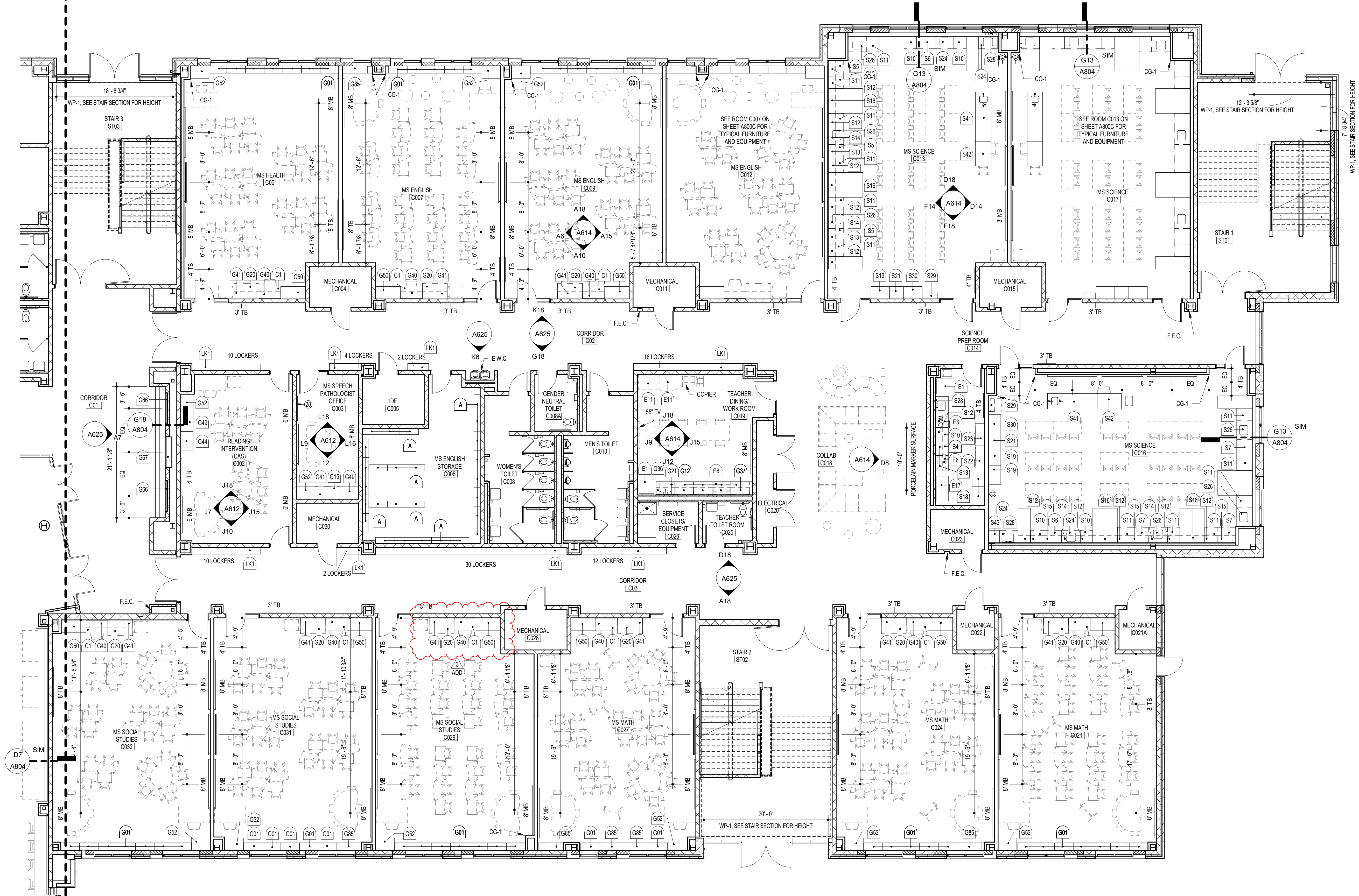


GP #22105

LEVEL 00 AREA C FURNITURE PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

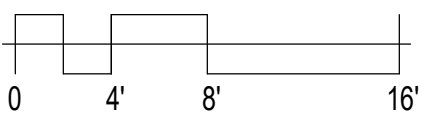
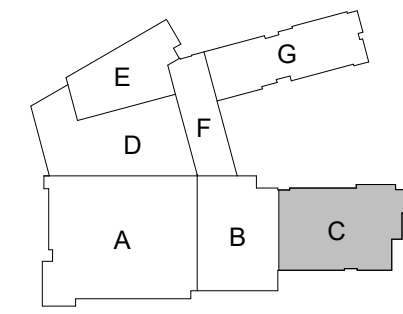
DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A800C
12/22/2023
BID SET



A18 LEVEL 00 AREA C PARTIAL FURNITURE PLAN
1/8" = 1'-0"

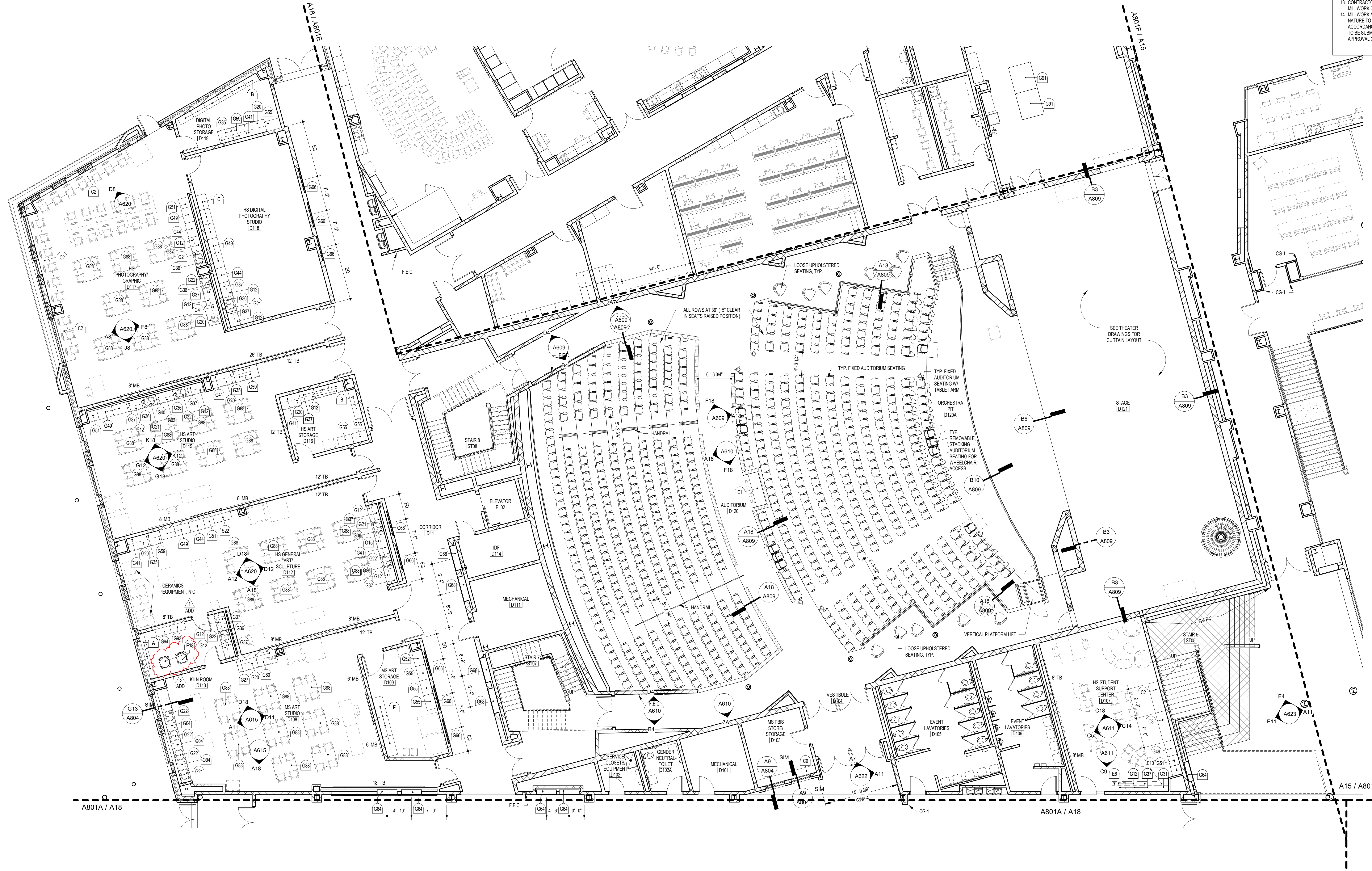
KEY PLAN



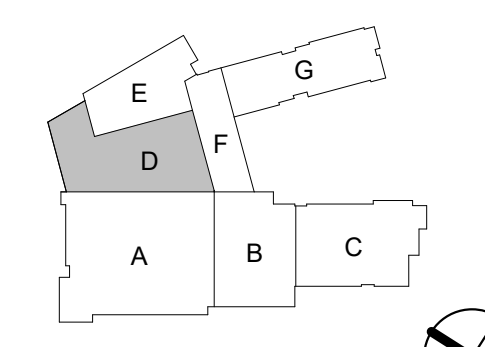
AUDITORIUM SEAT COUNT:
MAIN LEVEL:
FIXED 776
REMOVABLE 11
BALCONY LEVEL:
FIXED 197
REMOVABLE 7
TOTAL: 991

FURNISHING AND EQUIPMENT NOTES

- NOTE: NOT ALL ITEMS INDICATED ON SCHEDULE ARE REPRESENTED IN THIS PROJECT.
1. ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST 1/4".
 2. DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE COUNTERTOP.
 3. PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS OTHERWISE NOTED.
 4. MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES ONLY. SEE SPECIFICATION FOR FULL CASEWORK REQUIREMENTS.
 5. PROVIDE RESILIENT BASE FOR ALL CASEWORK THAT MEETS THE FLOOR ON FRONT AND EXPOSED SIDES AND BACK.
 6. DOTTED LINES INDICATE WALL HUNG CABINETS, DIVISIONS OF BASE CABINETS BELOW THE COUNTERTOP. FURNITURE NOT IN THE CONTRACT OR PROJECTION SCREENS - SEE CASEWORK KEY AND SPECIFICATIONS.
 7. ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
 8. ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH LAMINATE.
 9. WHERE CASEWORK MEETS A WALL AT ONE OR BOTH ENDS AND JOINT BETWEEN CASEWORK AND WALL EXCEEDS 3/16", PROVIDE FILLER PANEL(S) SCRIBED TO WALL. PROVIDE SEALANT AT JOINTS 3/16" OR LESS INCLUDING BETWEEN FILLER PANEL AND WALL.
 10. ALL CABINETS AND DRAWERS IN THE KINDERGARTEN ROOMS TO BE PROVIDED WITH RECESSED HANDLES.
 11. ALL COUNTERTOP CORNERS TO BE 1/2" RADUSED UNLESS OTHERWISE NOTED.
 12. PROVIDE ADEQUATE BLOCKING IN STUD WALLS AND AT CMU WALLS FOR WALL-MOUNTED EQUIPMENT AND FURNISHINGS.
 13. CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK FABRICATION.
 14. MILLWORK AND CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT. ALL WORK TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS. CONSTRUCTION DETAILS ARE TO BE SUBMITTED IN SHOP DRAWINGS AND ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT.



KEY PLAN



A18 LEVEL 01 AREA D PARTIAL FURNITURE PLAN
1/8" = 1'-0"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com



GP #22105

LEVEL 01 AREA D FURNITURE PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/13/2024	ADDENDUM 1
03/25/2024	ADDENDUM 3

A801D
12/22/2023
BID SET

NOTE: NOT ALL ITEMS INDICATED ON SCHEDULE ARE REPRESENTED IN THIS PROJECT.

1. ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST 1/4".
2. COUNTERS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE COUNTERTOP.
3. PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT AND FINISH SURFACES. PROVIDE OTHER FINISHES TO MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES ONLY. SEE SPECIFICATION FOR FULL COUNTER REQUIREMENTS.
4. PROVIDE RESILIENT BASE FOR ALL CASEWORK THAT MEETS THE FLOOR ON FRONT AND EXPOSED SIDES AND BACK.
5. PROVIDE 1/4" INDICATOR STRIPS TO IDENTIFY THE LOCATIONS OF BASE CABINETS BELOW THE COUNTERTOP. FURNITURE NOT IN THE CONTRACT OR PROJECT SCHEDULES-SEE CASEWORK KEY AND SPECIFICATION.
6. ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR CASEWORK CABINETS.
7. ALL EXPOSED SURFACES [EXPOSED TO VIEW FROM ANY PERSPECTIVE] TO BE COVERED WITH LAMINATE.
8. CASEWORK CABINETS TO HAVE 1/4" ROUNDED CORNERS AND JOINT BETWEEN CASEWORK AND WALLS EXPOSED 3/16". PROVIDE FILLER PANELS [SORBED TO WALL] PROVIDE SEALANT AT JOINTS TO BE LEFT INCLUDING JOINTS TO WALLS.
9. ALL CABINETS AND DRAWERS IN THE KIDDERGARTEN ROOMS TO BE PROVIDED WITH RECESSED HANDLES.
10. FOR COUNTERTOP CORNERS TO BE 1/2" ROUNDED UNLESS OTHERWISE NOTED.
11. PROVIDE AGED/AGED BLOCKING IN STUD WALLS AND AT CMU WALLS FOR UNMOUNTED EQUIPMENT AND FURNISHINGS.
12. CONTRACTOR TO FIELD VERIFY ALL CLIP OPENINGS PERMIT TO MILLWORK OR CASEWORK FABRICATION.
13. PROVIDE CASEWORK FABRICATION TO BE SHOWN IN DIAGRAMMATIC IN NOTICE TO SHOW DESIGN INTENT. ALL WORK TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS. CONSTRUCTION DETAILS ARE SUBMITTED IN SHOP DRAWINGS AND ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT.



A diagram of a 3D object composed of several rectangular faces. The faces are labeled A, B, C, D, E, F, and G. Face F is shaded gray. The object is shown from a perspective that highlights faces A, B, C, D, E, and F. Face G is visible on the top right.

www.grimmandparker.com



LEVEL 01 AREA F FURNITURE PLAN

NORTH EAST MIDDLE / HIGH SCHOOL

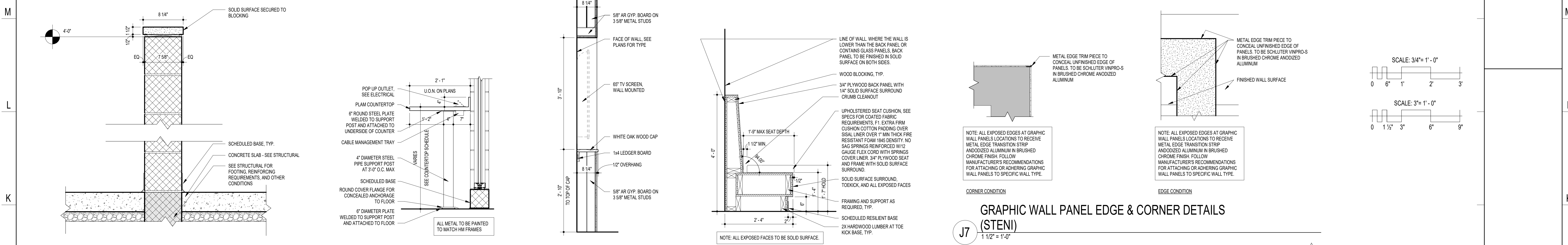
3300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

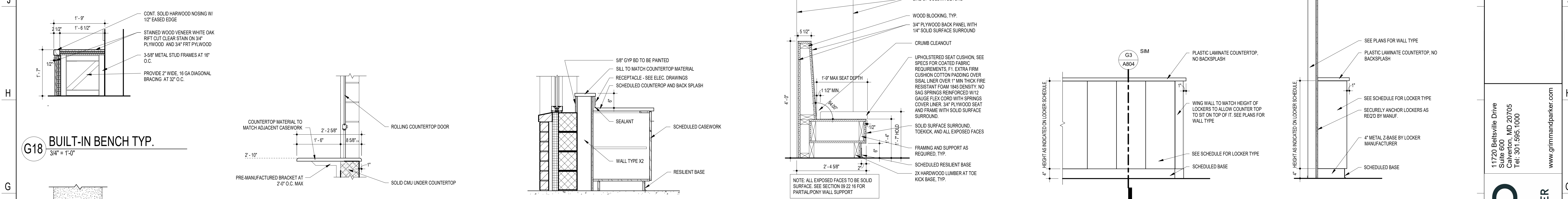
© GRIMM AND PARKER ARCHITECTURE, INC.

GENERAL MILLWORK NOTES

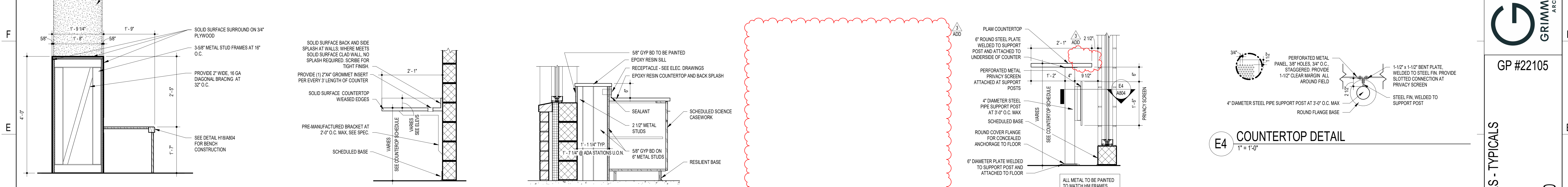
- MILLWORK IS DIAGRAMMATIC IN NATURE. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONSTRUCTION DETAILS ARE TO BE SUBMITTED IN SHOP DRAWINGS AND ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK FABRICATION.
- NO BUTT JOINTS ALLOWED. ALL CONNECTIONS TO BE DADOED, CONTINUOUS SPLINE OR BISCUIT JOINED.



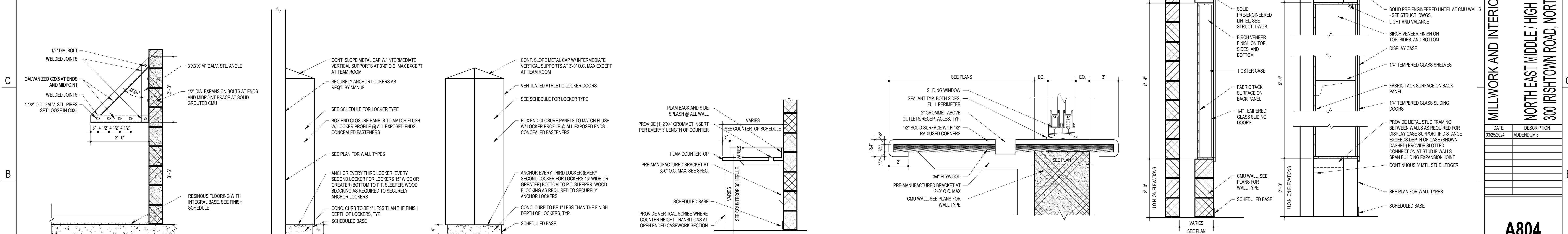
J18 CLASSROOM LOW WALL DETAIL 1 1/2" = 1'-0"
J14 COUNTERTOP DETAIL - C6 3/4" = 1'-0"
J12 HS COLLAB AREA DETAIL 3/4" = 1'-0"
J10 HS DINING BANQUETTE AT WALL 3/4" = 1'-0"



G18 BUILT-IN BENCH TYP. 3/4" = 1'-0"
G16 ROLLING COUNTER SHUTTER - CONCESSIONS 3/4" = 1'-0"
G13 SCIENCE CASEWORK COUNTER 3/4" = 1'-0"
G9 HS DINING BANQUETTE 3/4" = 1'-0"



G6 SINGLE TIER LOCKER DETAIL 3/4" = 1'-0"
G3 SINGLE TIER LOCKER DETAIL 3/4" = 1'-0"
E4 COUNTERTOP DETAIL 1" = 1'-0"
D7 COUNTERTOP DETAIL - C4 3/4" = 1'-0"



D18 HS DINING BENCH DETAIL 3/4" = 1'-0"
D16 COUNTERTOP DETAIL - SOLID SURFACE 3/4" = 1'-0"
D13 SCIENCE CASEWORK COUNTER 3/4" = 1'-0"
A18 CAN WASH DETAIL 3/4" = 1'-0"
A16 LOCKER DETAIL 3/4" = 1'-0"
A14 ATHLETIC LOCKER DETAIL 3/4" = 1'-0"
A11 COUNTERTOP DETAIL 3/4" = 1'-0"
A9 SLIDING WINDOW AT COUNTER 3" = 1'-0"
A5 POSTER CASE DETAIL 3/4" = 1'-0"
A3 DISPLAY CASE DETAIL 3/4" = 1'-0"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

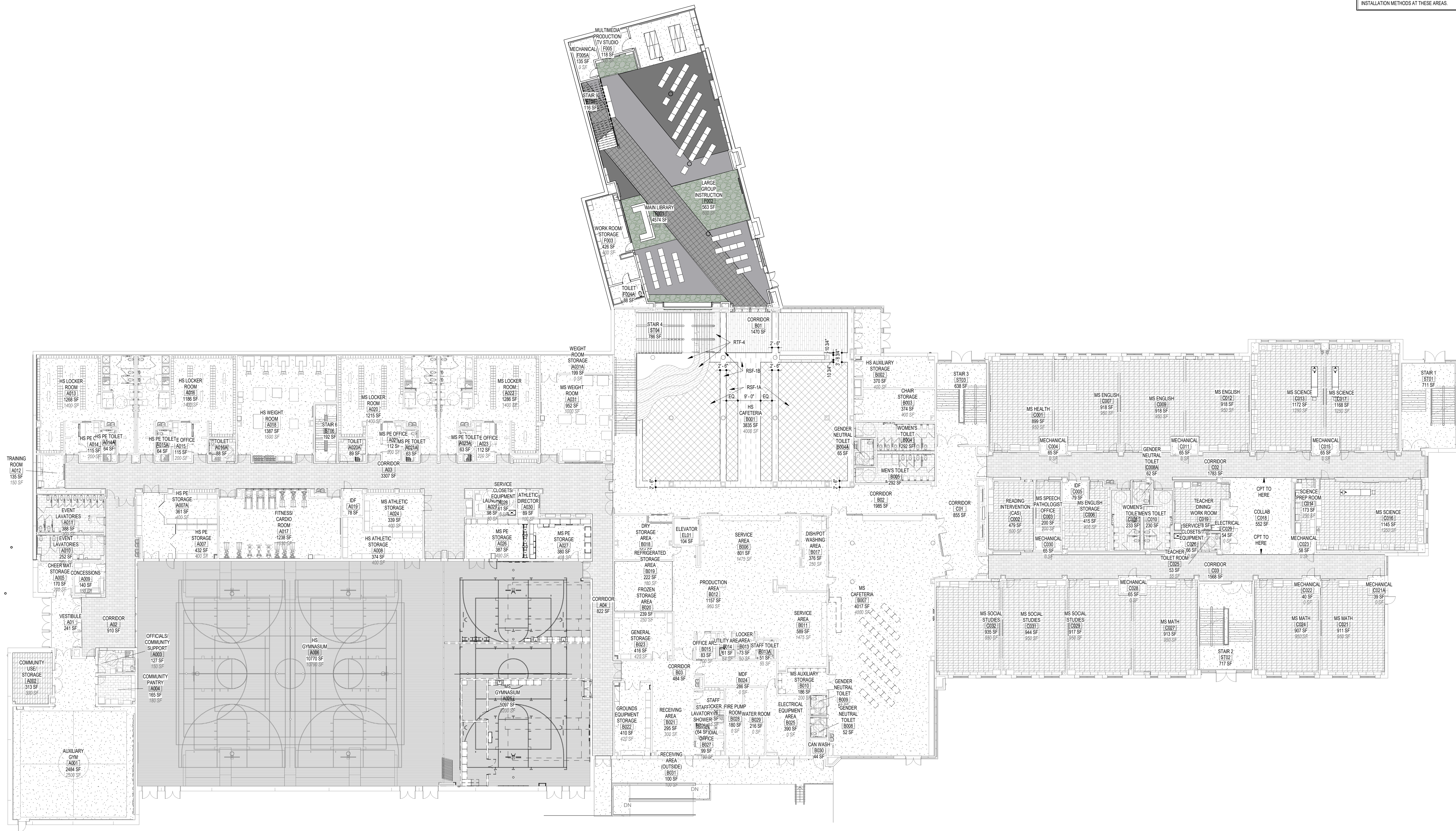


GP #22105

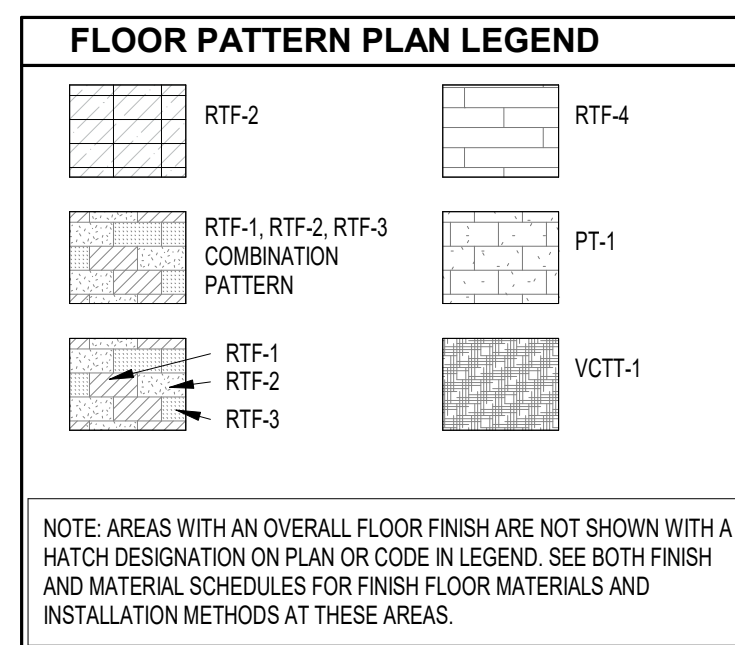
MILLWORK AND INTERIOR DETAILS - TYPICALS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A804
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.



B18 LEVEL 00 FLOOR PATTERN PLAN
1/16" = 1'-0"



RECORD DRAWING NOTIFICATION

These record drawings have been prepared based upon information provided by others. Grimm and Partner Architecture, Inc. has not verified the accuracy or completeness of the information provided by others. As such, these record drawings should not be used for construction purposes.

GRIMM CONSTRUCTION

These record drawings, or any incomplete or inaccurate information provided by others incorporated into these record drawings, and expressly

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

G+p
GRIMM + PARKER

GP #22105

LEVEL 00 FLOOR PATTERN PLAN

DATE	DESCRIPTION
02/26/2024	ADDENDUM 2

03/25/2024	ADDENDUM J

--	--

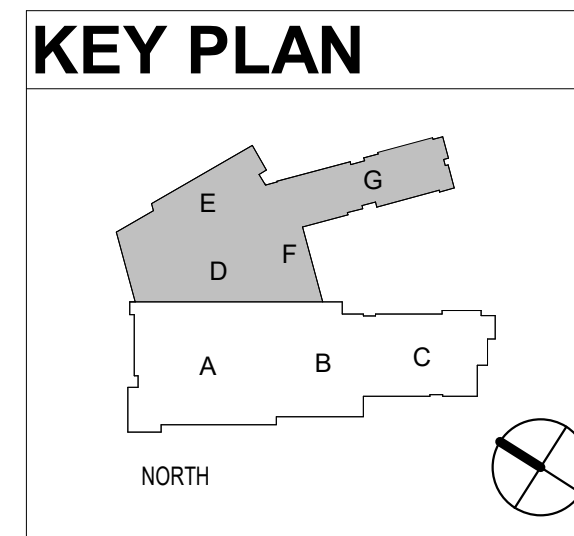


A810A

ACT 10A
10/22/2022

12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.



A810A

12/22/2023
BIB. SET

BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

RTF-2

RTF-1, RTF-2, RTF-3
COMBINATION
PATTERN

RTF-1
RTF-2
RTF-3

RTF-4

PT-1

VCTT-1

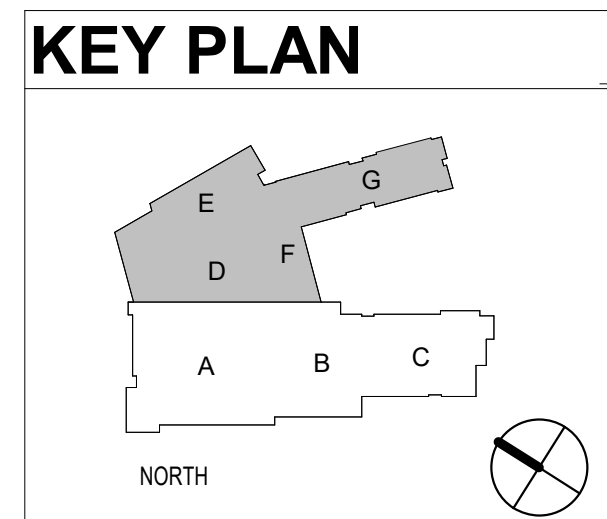
NOTE: AREAS WITH AN OVERALL FLOOR FINISH ARE NOT SHOWN WITH A HATCH DESIGNATION ON PLAN OR CODE IN LEGEND. SEE BOTH FINISH AND MATERIAL SCHEDULES FOR FINISH FLOOR MATERIALS AND INSTALLATION METHODS AT THESE AREAS.

RECORD DRAWING NOTIFICATION
These record drawings have been prepared based upon information furnished by the owner and the contractor. The accuracy of the information is not guaranteed by the architect. It is the responsibility of the contractor to verify the accuracy of the information and to ensure that all work is done in accordance with the approved drawings and specifications. The architect does not warrant the accuracy of the information or the results of the construction. The architect's responsibility is limited to the design of the building and the preparation of the drawings and specifications. The architect does not warrant the accuracy of the information or the results of the construction. The architect's responsibility is limited to the design of the building and the preparation of the drawings and specifications.

NOT FOR CONSTRUCTION



B18 LEVEL 01 AREA NORTH PARTIAL FLOOR PATTERN PLAN
1/16" = 1'-0"



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com



GP #22105

LEVEL 01 AREA NORTH PARTIAL FLOOR PATTERN PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A811A
12/22/2023
BID SET

A18 LEVEL 01 AREA SOUTH PARTIAL FLOOR PATTERN PLAN
1/16" = 1'-0"



FLOOR PATTERN PLAN LEGEND

	RTF-2		RTF-4
	RTF-1, RTF-2, RTF-3 COMBINATION PATTERN		PT-1
	RTF-1, RTF-2, RTF-3		VCTT-1

NOTE: AREAS WITH AN OVERALL FLOOR FINISH ARE NOT SHOWN WITH A HATCH DESIGNATION ON PLAN OR CODE IN LEGEND. SEE BOTH FINISH AND MATERIAL SCHEDULES FOR FINISH FLOOR MATERIALS AND INSTALLATION METHODS AT THESE AREAS.

RECORD DRAWING NOTIFICATION

These record drawings have been prepared based upon information furnished by the owner and the architect. It is the responsibility of the owner and the architect to verify the accuracy of the information furnished. The contractor is not responsible for the accuracy of the information furnished. The contractor is not responsible for the accuracy of the information furnished. The contractor is not responsible for the accuracy of the information furnished.

NOT FOR CONSTRUCTION

These drawings are not to be used for construction purposes. They are for informational purposes only. They are not to be used for construction purposes. They are for informational purposes only. They are not to be used for construction purposes. They are for informational purposes only.

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000



GP #22105

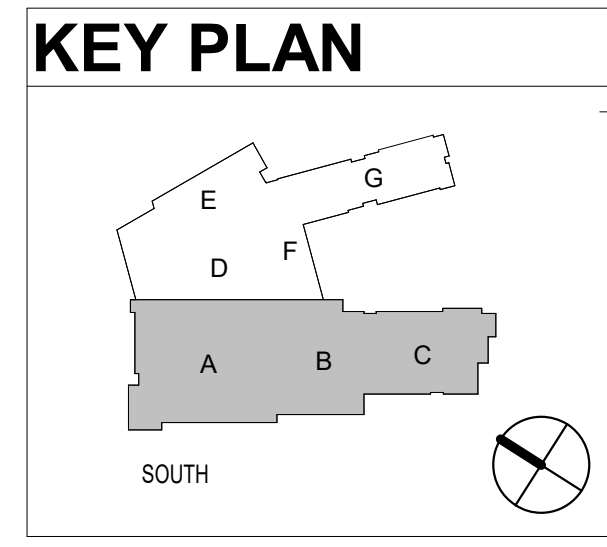
LEVEL 01 AREA SOUTH PARTIAL FLOOR PATTERN PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A811B

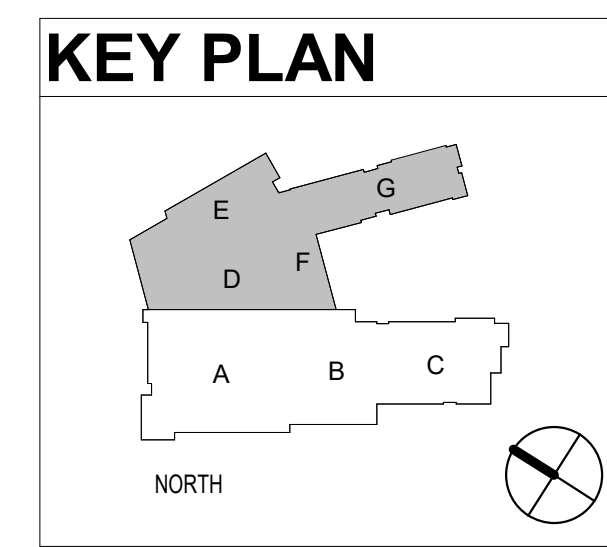
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.





B18 LEVEL 02 AREA NORTH PARTIAL FLOOR PATTERN PLAN
1/16" = 1'-0"



RECORD DRAWING NOTIFICATION

These record drawings have been prepared based upon information provided by owners, Grimm and Parker Architecture, Inc. has not verified the accuracy of or assumed any responsibility for the accuracy of or the completeness of such, these records are provided as-is, without any warranty, express or implied, and the user assumes all liability for any errors or omissions in these records. The user agrees to indemnify and hold the architect harmless from any and all claims, damages, costs, and expenses, including reasonable attorneys' fees, that may be asserted against or incurred by the architect in connection with the use of these records. The user further agrees to release, defend, indemnify and hold the architect harmless from any and all claims, damages, costs, and expenses, including reasonable attorneys' fees, that may be asserted against or incurred by the architect in connection with the use of these records.

NOT FOR CONSTRUCTION

These record drawings are not to be used for construction purposes. They are provided for informational purposes only. The user agrees to release, defend, indemnify and hold the architect harmless from any and all claims, damages, costs, and expenses, including reasonable attorneys' fees, that may be asserted against or incurred by the architect in connection with the use of these records.

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandparker.com

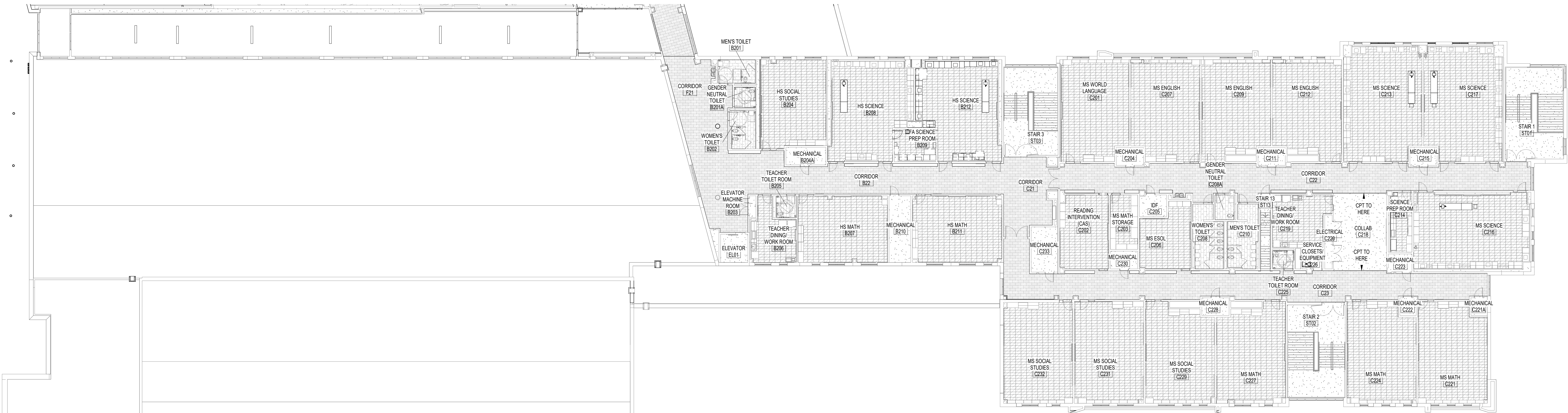


GP #22105

LEVEL 02 AREA NORTH PARTIAL FLOOR PATTERN PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

[illegible]

A812A
12/22/2023
BID SET



FLOOR PATTERN PLAN LEGEND

	RTF-2		RTF-4
	RTF-1, RTF-2, RTF-3 COMBINATION PATTERN		PT-1
	RTF-1, RTF-2, RTF-3		VCIT-1

NOTE: AREAS WITH AN OVERALL FLOOR FINISH ARE NOT SHOWN WITH A HATCH DESIGNATION ON PLAN OR CODE IN LEGEND. SEE BOTH FINISH AND MATERIAL SCHEDULES FOR FINISH FLOOR MATERIALS AND INSTALLATION METHODS AT THESE AREAS.

RECORD DRAWING NOTIFICATION
These record drawings have been prepared based upon information furnished by the owner and the contractor. It is the responsibility of the contractor to verify the accuracy of the information furnished. The contractor shall be responsible for all field work and for all materials and methods of construction. The contractor shall be responsible for all field work and for all materials and methods of construction. The contractor shall be responsible for all field work and for all materials and methods of construction.

NOT FOR CONSTRUCTION

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com



GP #22105

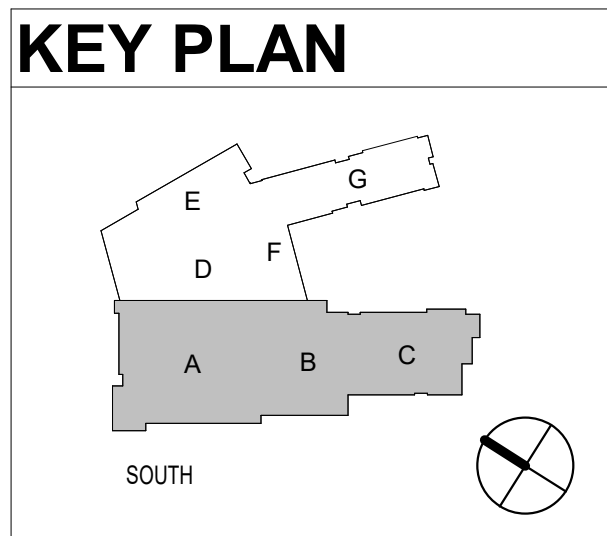
LEVEL 02 AREA SOUTH PARTIAL FLOOR PATTERN PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A812B
12/22/2023
BID SET

3 ADD

B18 LEVEL 02 AREA SOUTH PARTIAL FLOOR PATTERN PLAN
1/16" = 1'-0"





www.grimmandparker.com

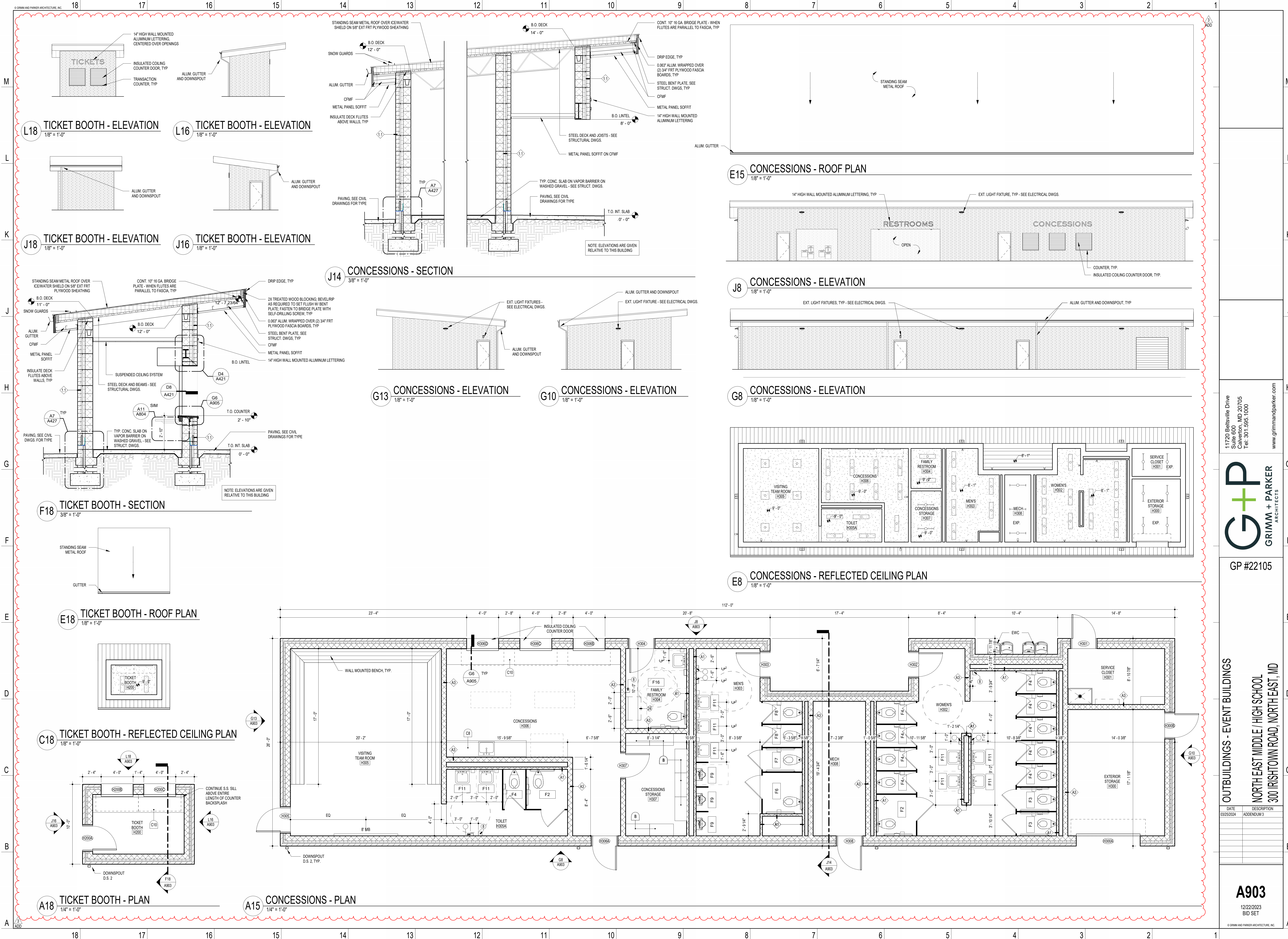


GP #22105

LEVEL 03 FLOOR PATTERN PLAN

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A813A
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000



GP #22105

OUTBUILDINGS - EVENT BUILDINGS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A903
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

M

L

K

J

H

G

F

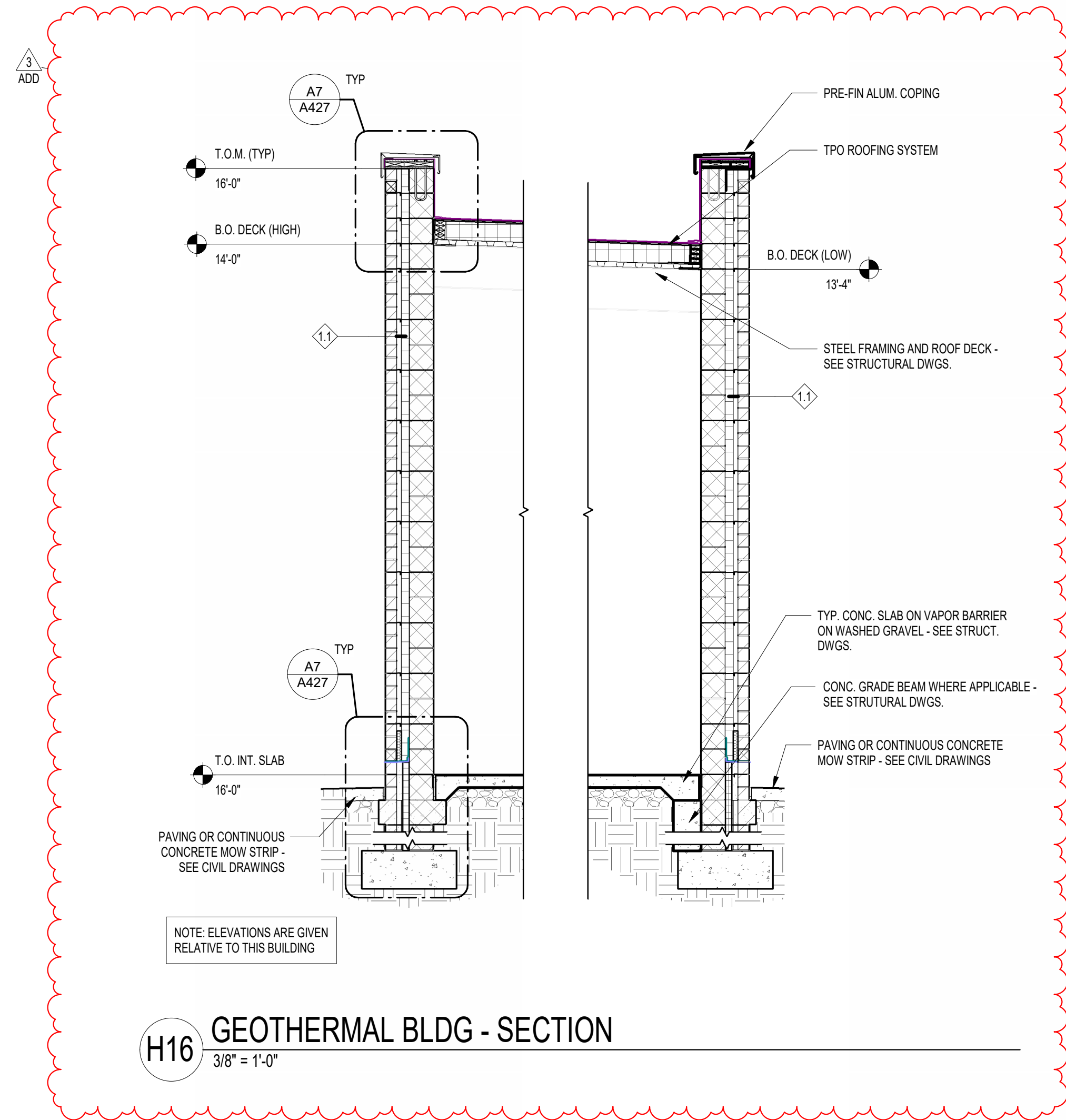
E

D

C

B

A

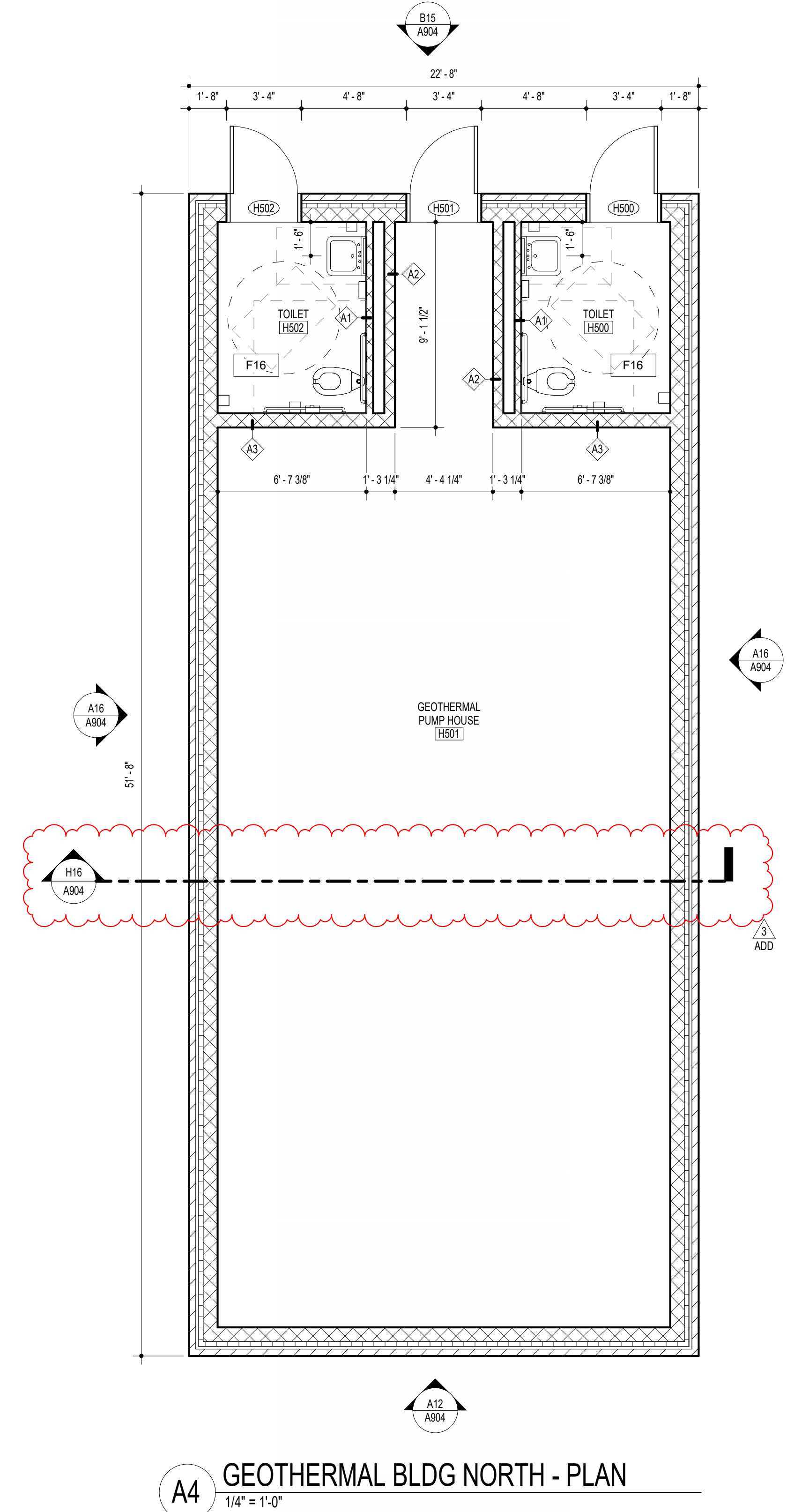
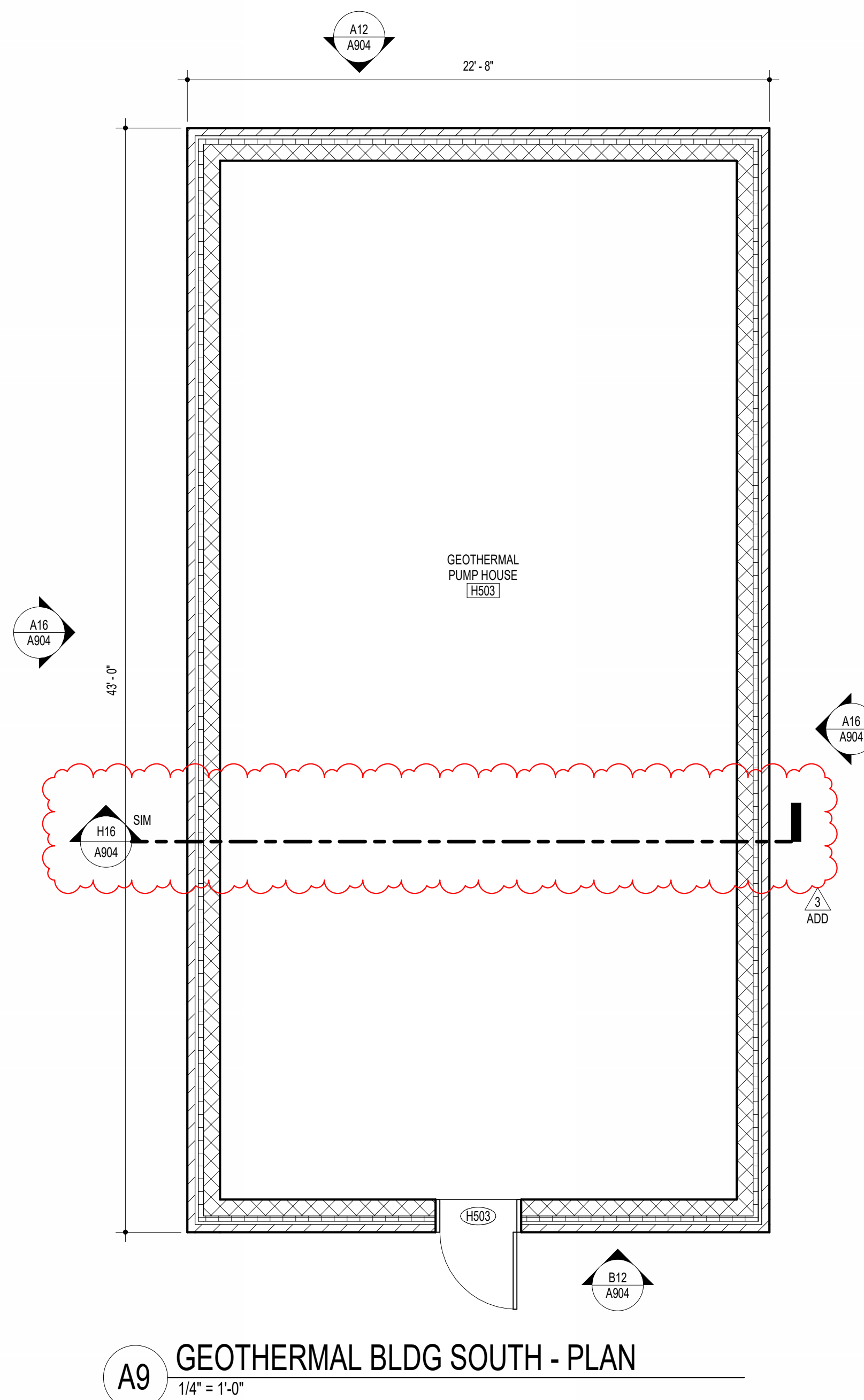
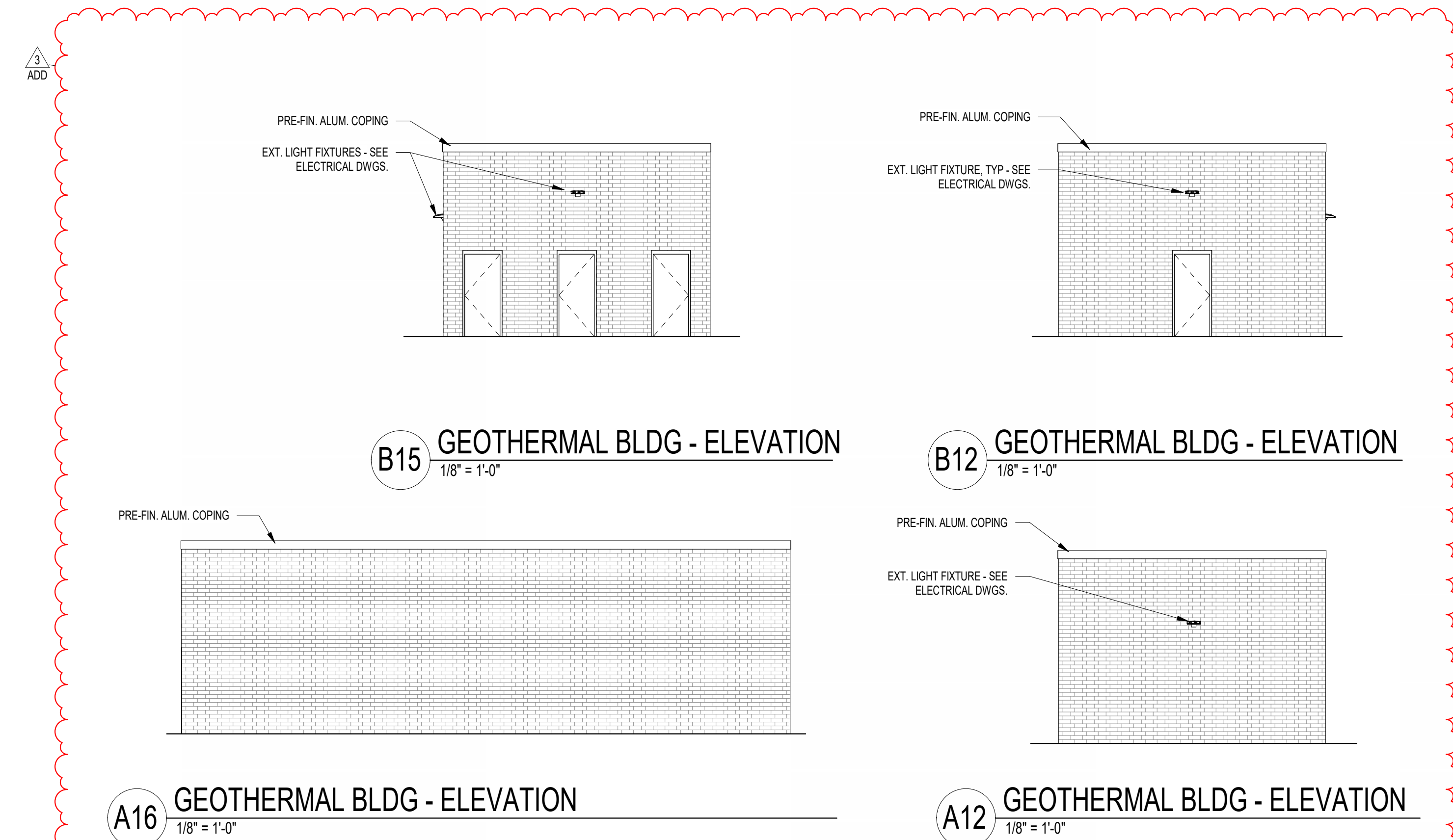


H12 GEOTHERMAL BLDG SOUTH - REFLECTED CEILING PLAN
1/8" = 1'-0"

H9 GEOTHERMAL BLDG SOUTH - ROOF PLAN
1/8" = 1'-0"

H6 GEOTHERMAL BLDG NORTH - REFLECTED CEILING PLAN
1/8" = 1'-0"

H3 GEOTHERMAL BLDG NORTH - ROOF PLAN
1/8" = 1'-0"



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



GP #22105

OUTBUILDINGS - GEOTHERMAL BUILDINGS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

A904
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.

M

L

K

J

H

G

F

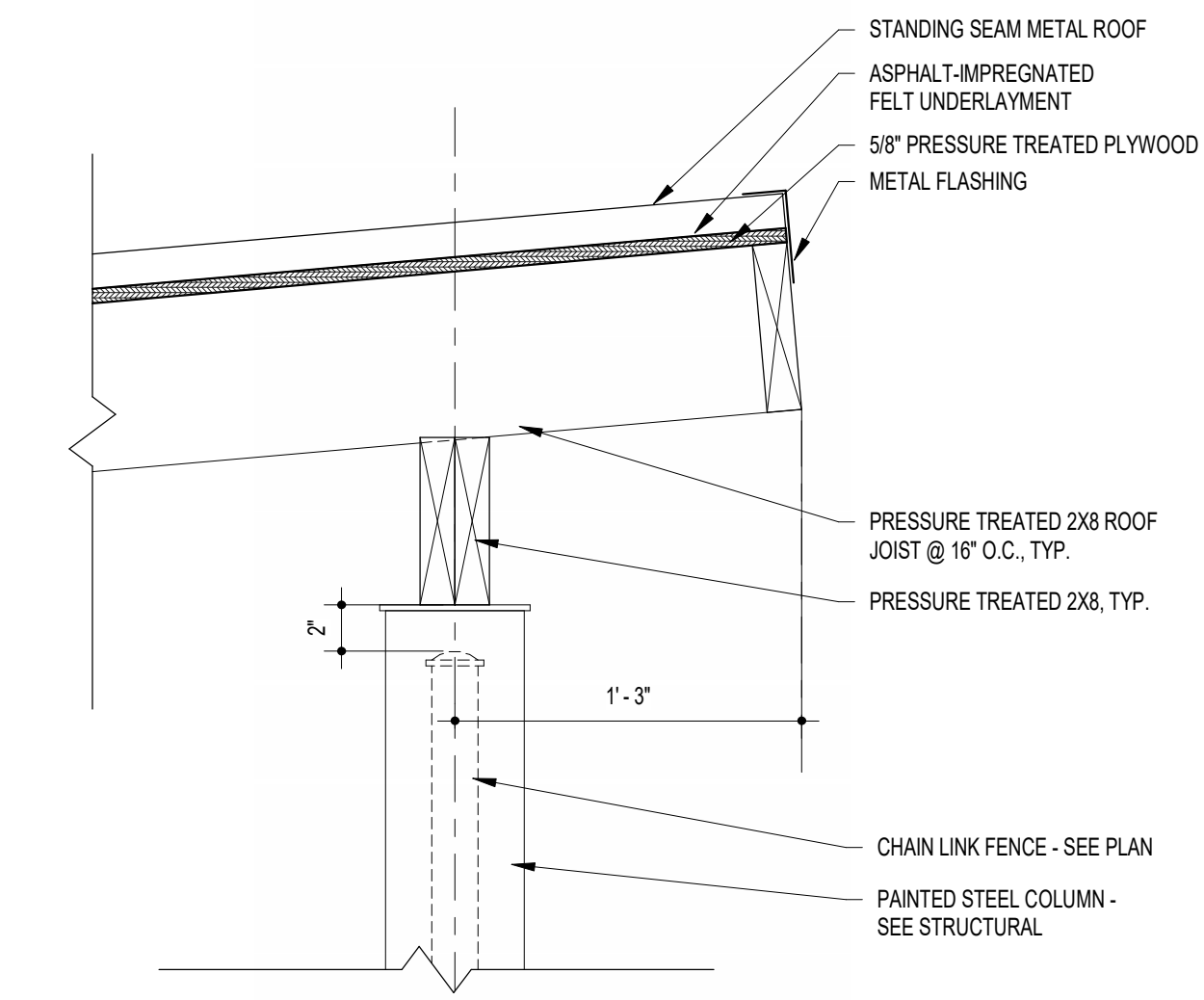
E

D

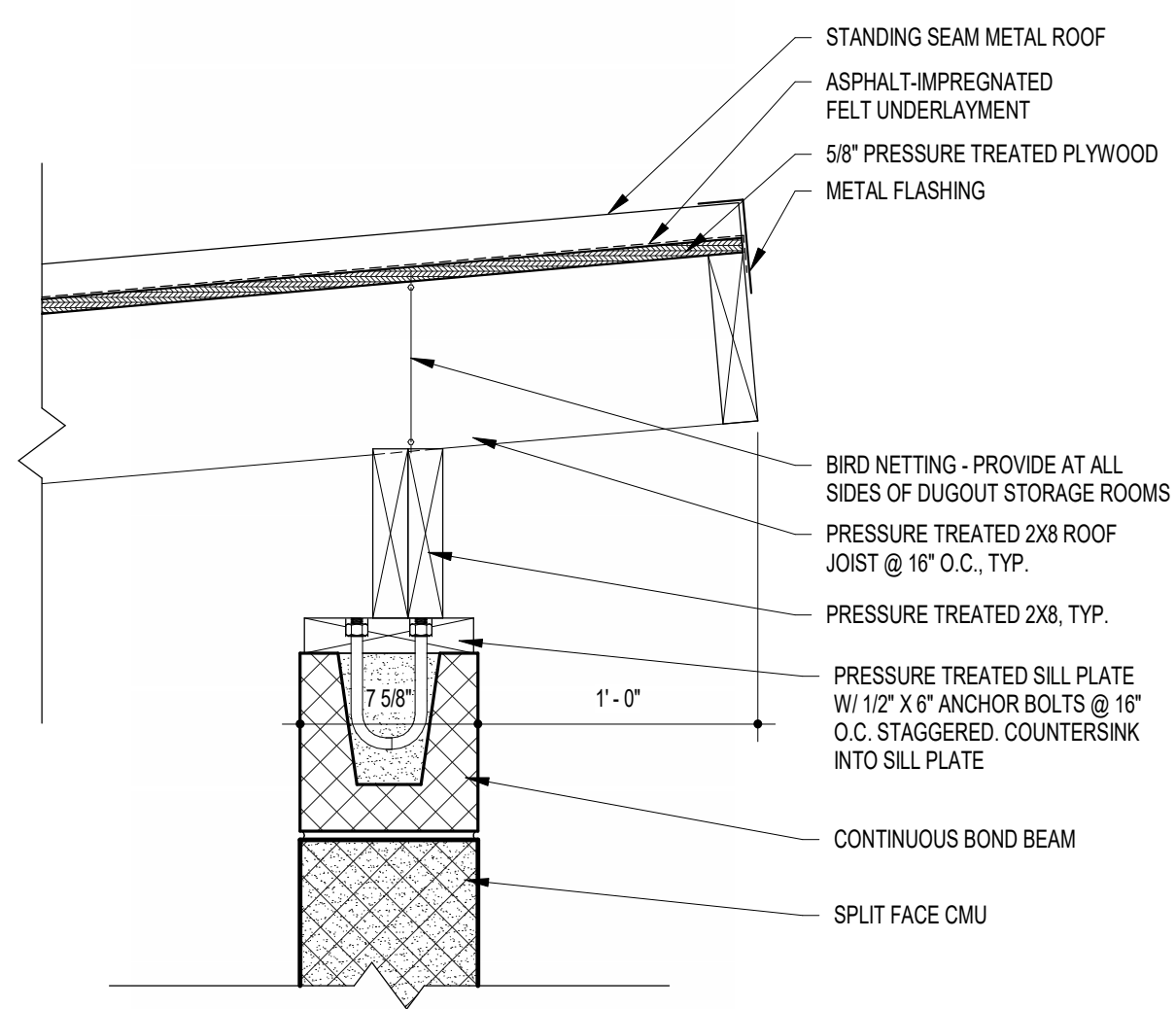
C

B

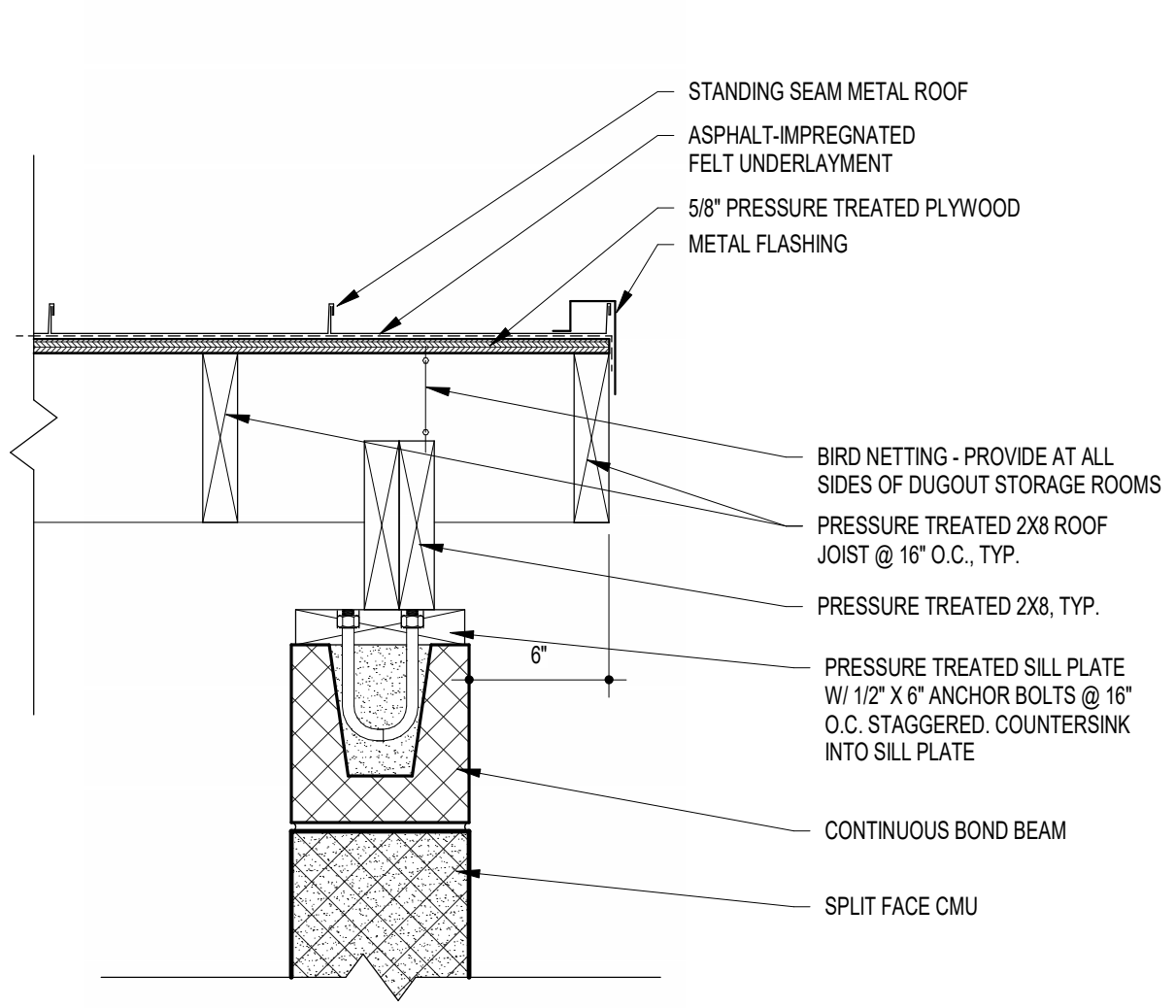
A



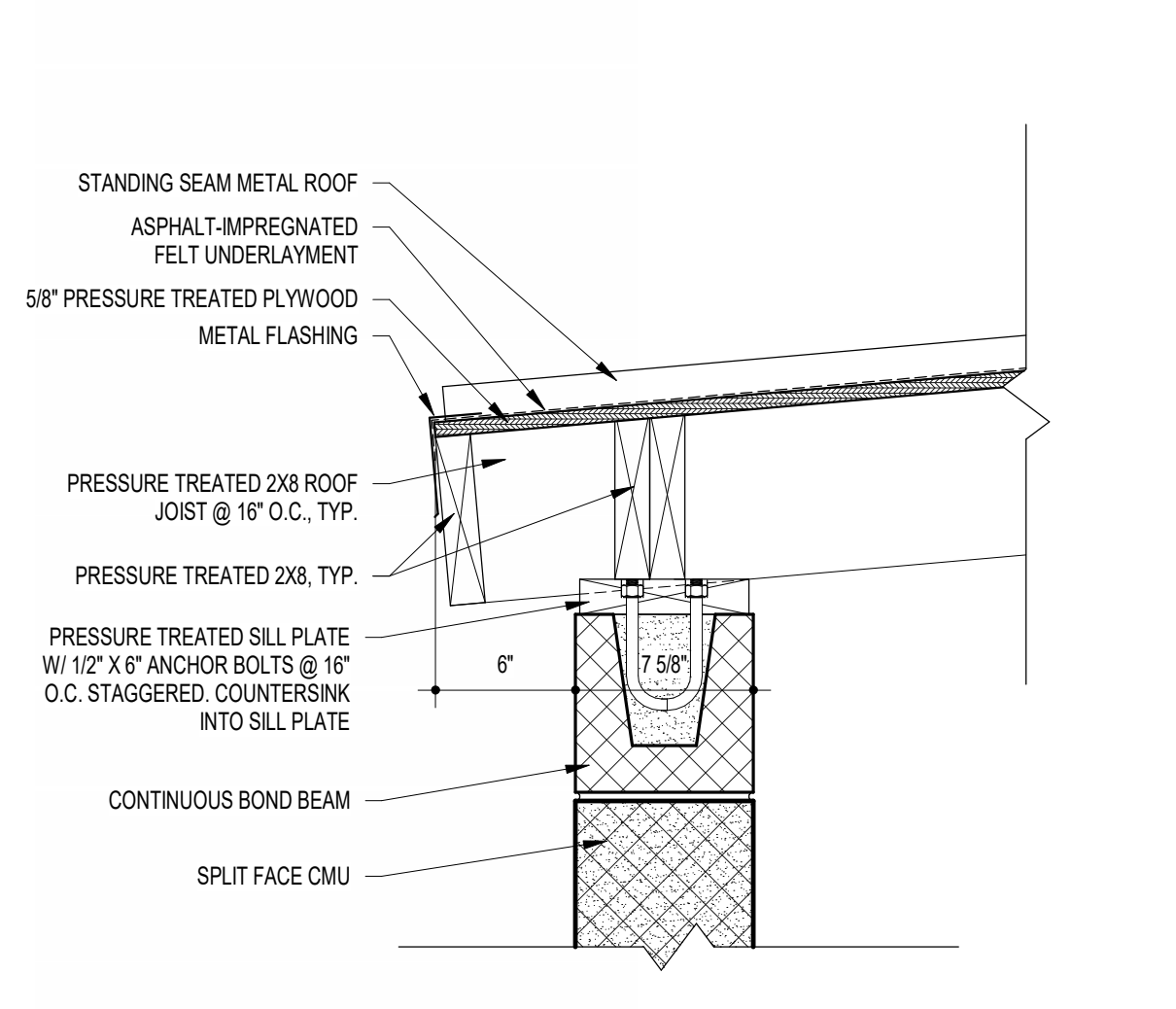
K14 METAL ROOF DETAIL
1 1/2" = 1'-0"



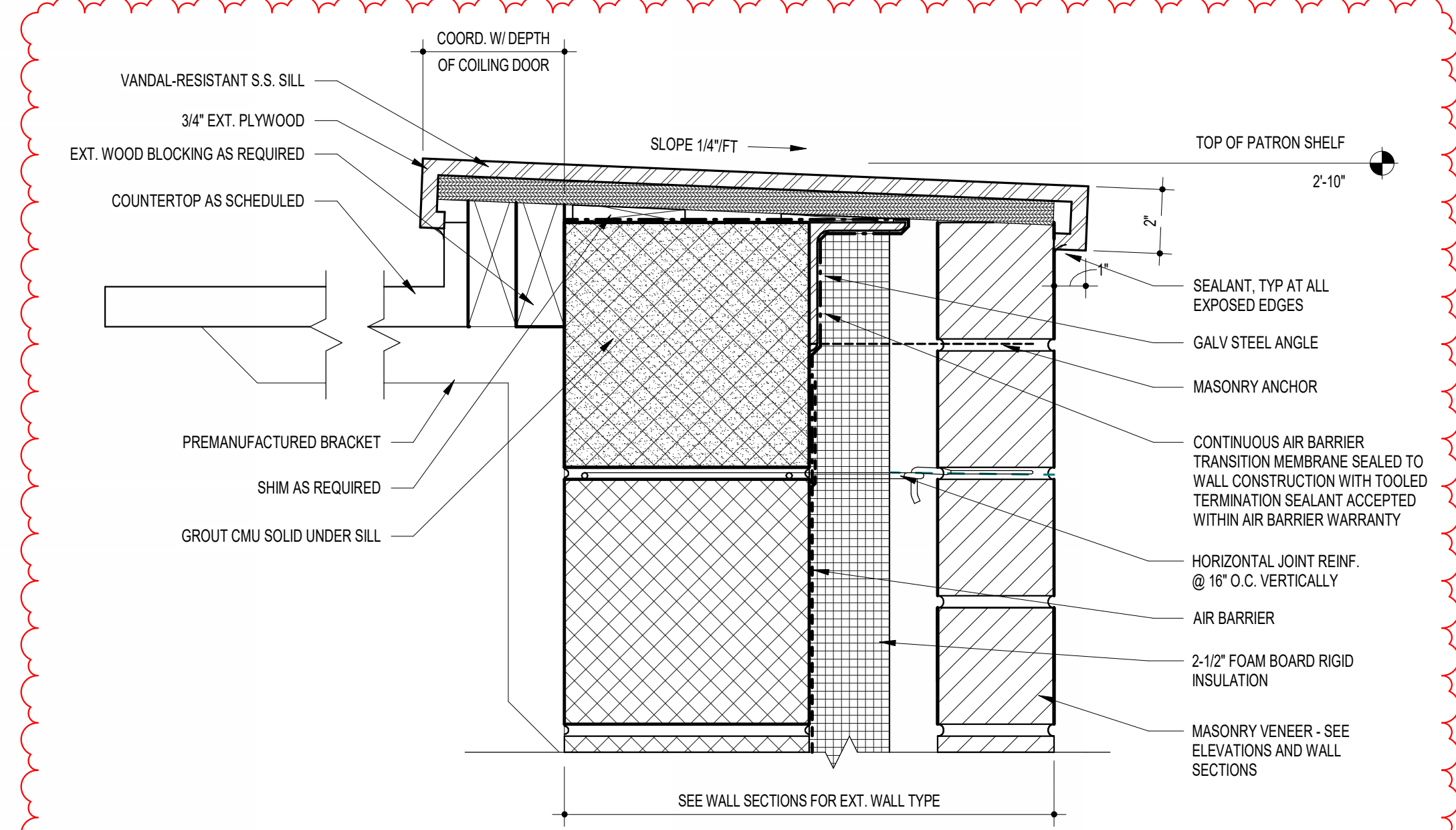
K10 METAL ROOF DETAIL
1 1/2" = 1'-0"



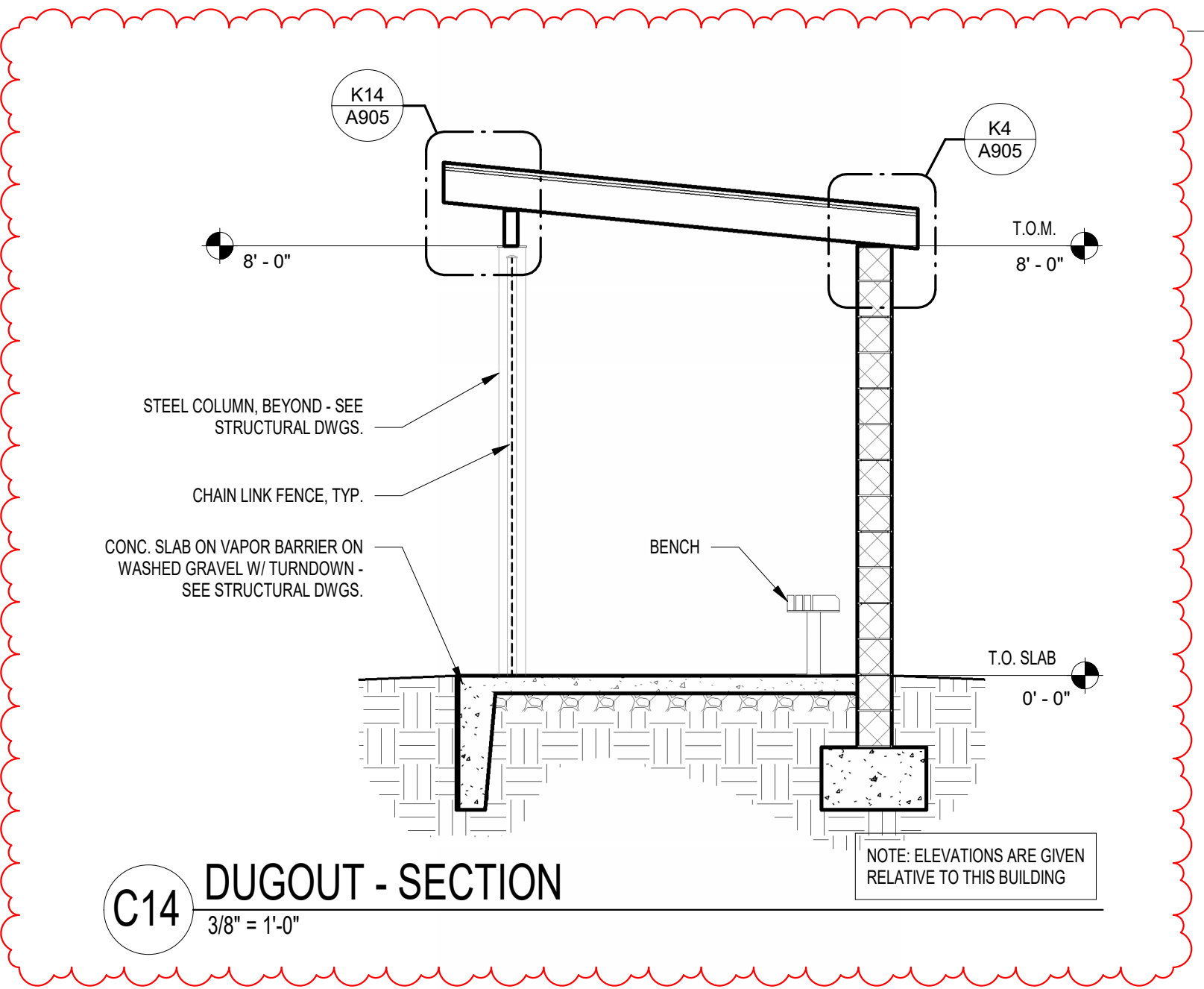
K7 METAL ROOF DETAIL
1 1/2" = 1'-0"



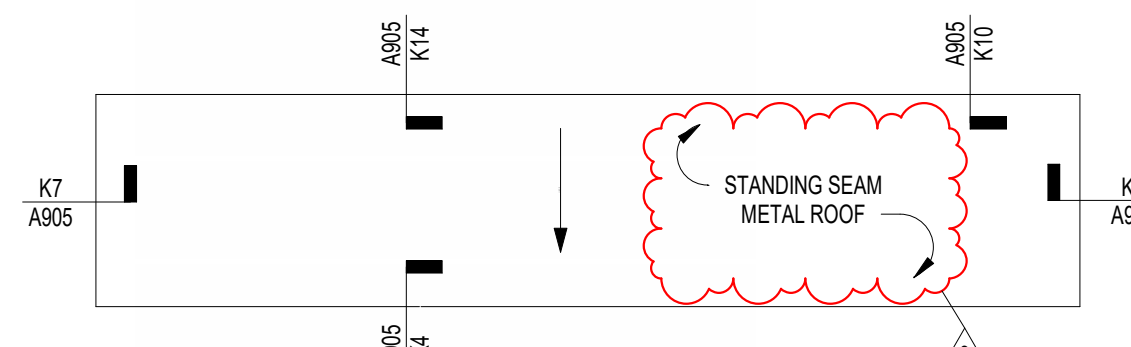
K4 METAL ROOF DETAIL
1 1/2" = 1'-0"



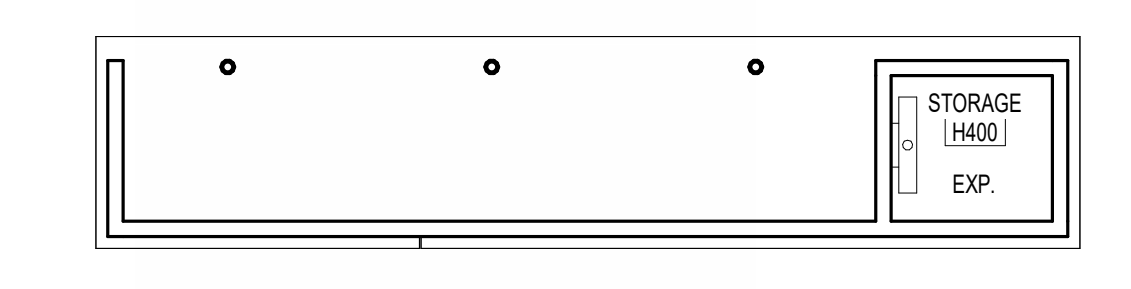
G6 SILL DETAIL - TRANSACTION COUNTER
3" = 1'-0"



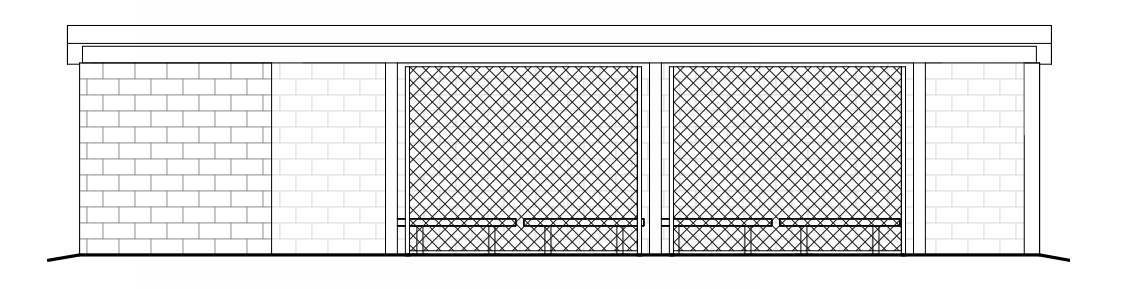
C14 DUGOUT - SECTION
3/8" = 1'-0"



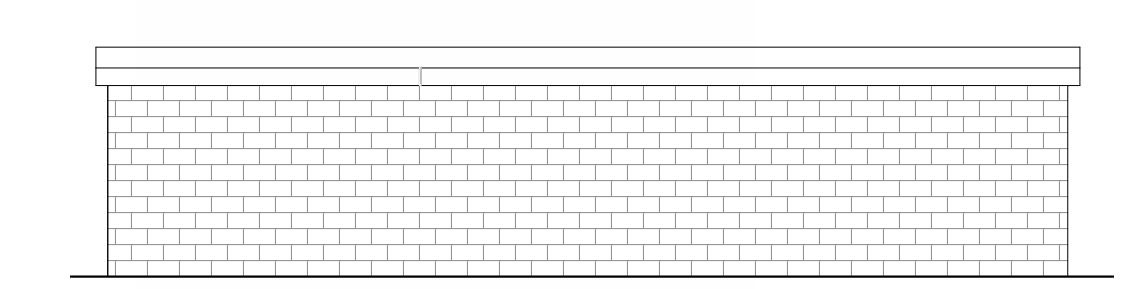
D10 DUGOUT - ROOF PLAN
1/8" = 1'-0"



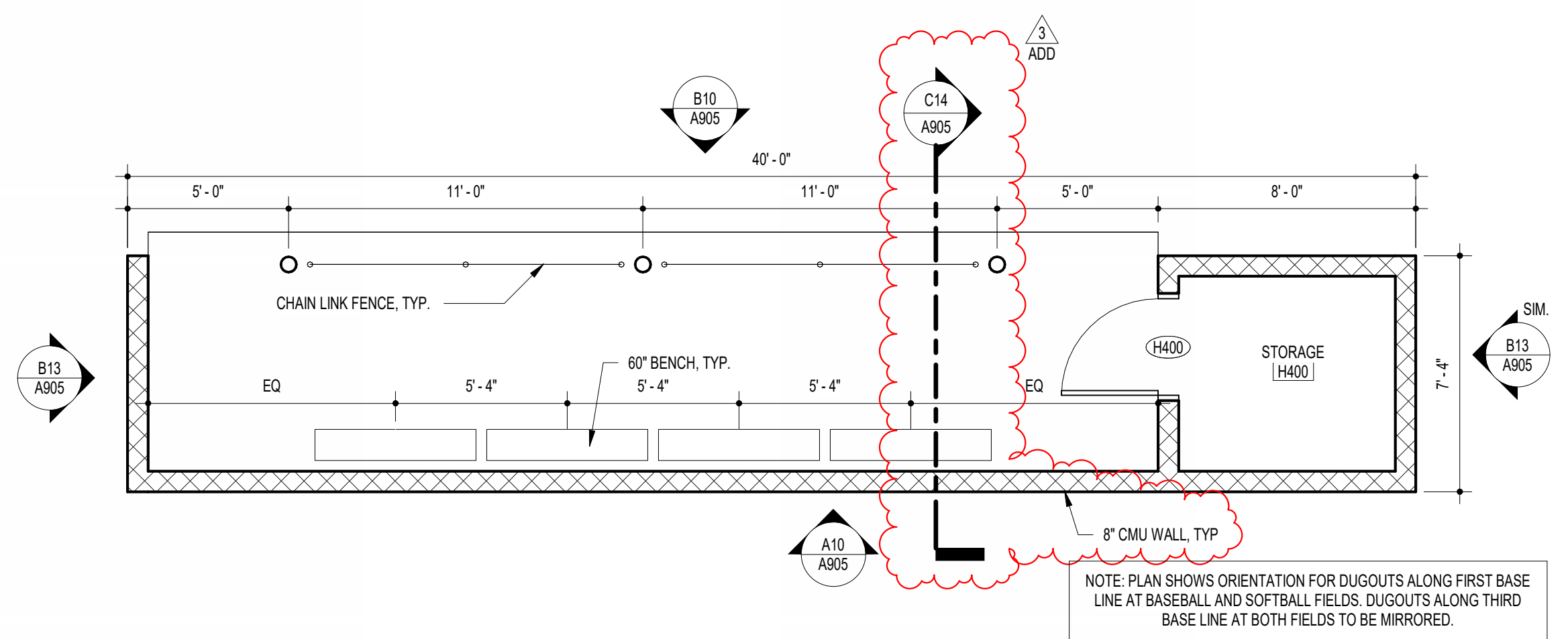
C10 DUGOUT - REFLECTED CEILING PLAN
1/8" = 1'-0"



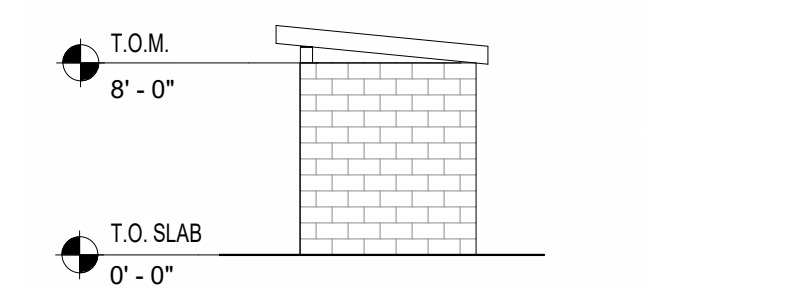
B10 DUGOUT - FRONT ELEVATION
1/8" = 1'-0"



A10 DUGOUT - REAR ELEVATION
1/8" = 1'-0"



A6 DUGOUT - PLAN (TYP. OF 4)
1/4" = 1'-0"



B13 DUGOUT - SIDE ELEVATION
1/8" = 1'-0"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

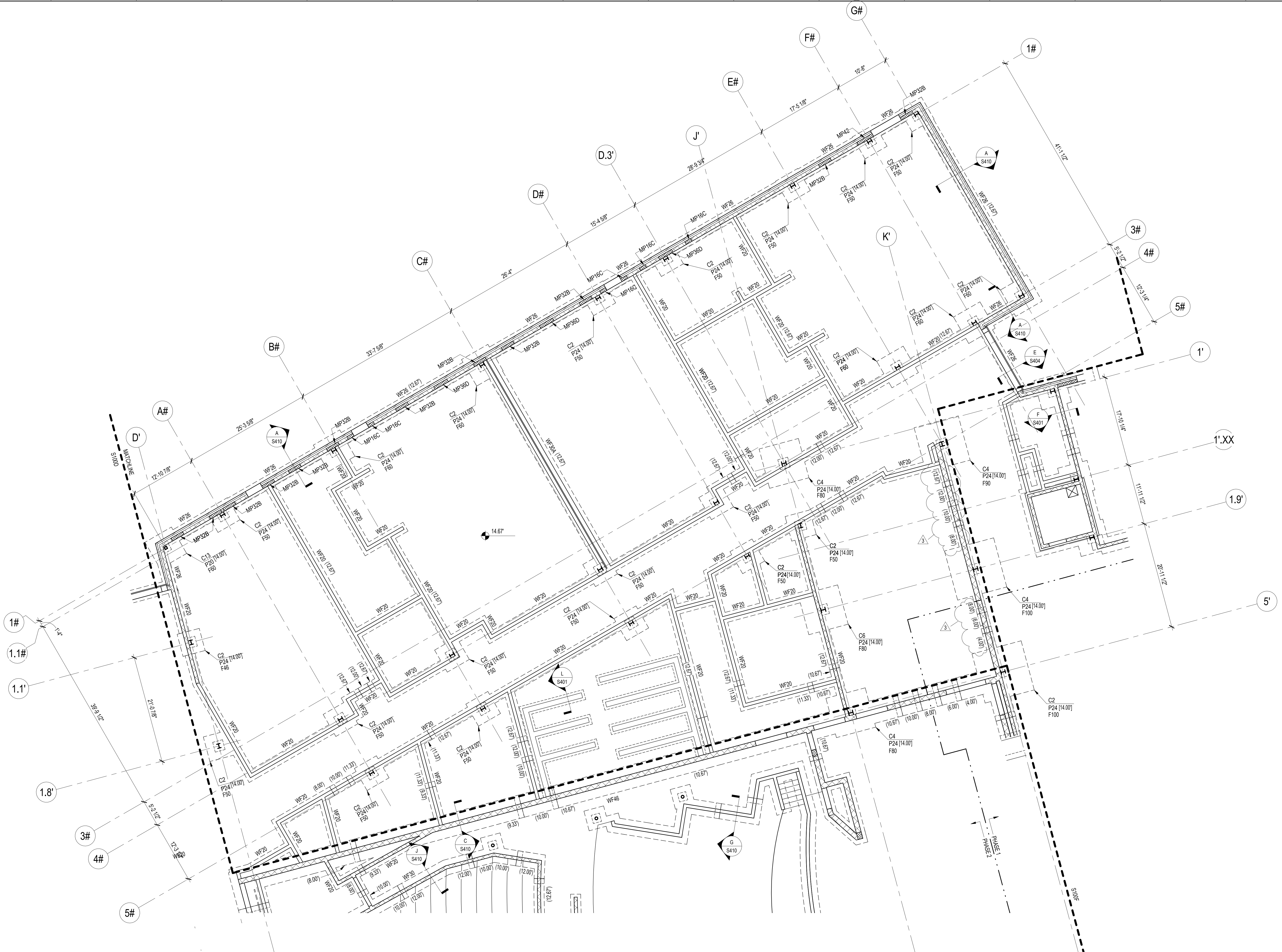


GP #22105

OUTBUILDINGS - DETAILS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

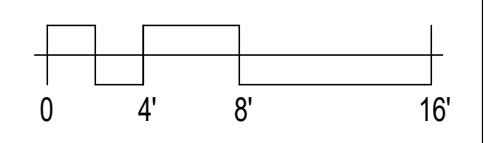
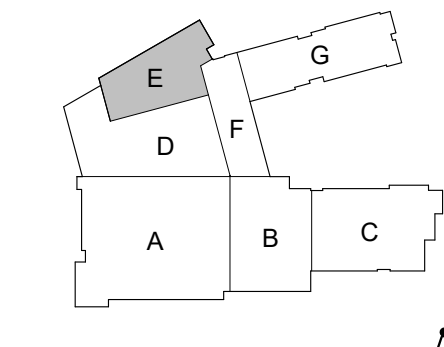
A905
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.



FOUNDATION AND SLAB ON GRADE PLAN- AREA E

- SCALE: 1/8" = 1'-0"
- FOUNDATION AND SLAB ON GRADE NOTES:**
- SLAB ON GRADE SHALL BE 4" THICK NORMAL WEIGHT CONCRETE (FC=4000 PSI) REINFORCED WITH 6"x6", W2.1X W2.1 W.W.F. ON 15 MIL VAPOR BARRIER OVER 6" THICK LAYER OF WASHED GRAVEL.
 - TOP OF SLAB ELEVATION SHALL BE 92.00' (DATUM 0.00') UNLESS NOTED OTHERWISE.
 - TOP OF CONCRETE PIER ELEVATION SHALL BE 8" BELOW DATUM ELEVATION UNLESS NOTED OTHERWISE THUS [...].
 - TOP OF FOOTING ELEVATION SHALL BE -2'-0" BELOW DATUM ELEVATION UNLESS NOTED OTHERWISE THUS [...]. FOOTING ELEVATIONS ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE FIELD ADJUSTED. LOWER FOOTING AS REQUIRED BELOW UTILITY LINES AND INSTALL SLEEVES THROUGH CONCRETE AND MASONRY WALLS.
 - SEE ARCHITECTURAL DRAWINGS FOR DERESSED SLAB AREAS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR ALL NON-LOAD BEARING CMU PARTITIONS.

KEY PLAN



Columbia Engineering Inc.
Structural Engineers
6210 Old Dobson Lane
Columbia, MD 21045
Tel: 410.862.89
Fax: 410.862.867
C.E. No. 31-081 (Jan 03)

ENGINEERING
MD
INC.

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

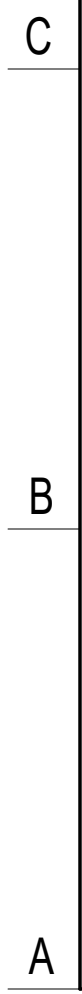
GP #22105

FOUNDATION AND SLAB ON GRADE PLAN- AREA E
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

S100E
12/22/2023
BID SET

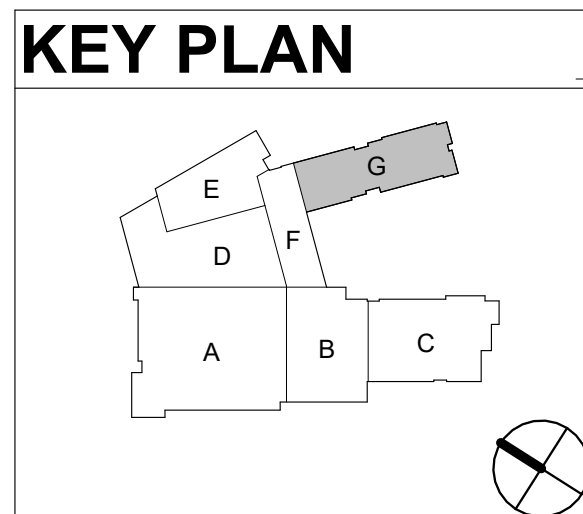
© GRIMM AND PARKER ARCHITECTURE, INC.



SCALE: 1/8" = 1'-0"

FOUNDATION AND SLAB ON GRADE NOTES:

1. SLAB ON GRADE SHALL BE 4" THICK NORMAL WEIGHT CONCRETE (fc=4000 PSI) REINFORCED WITH 6"x6", W2.1X W2.1 W.W.F. ON 15 MIL VAPOR BARRIER OVER 6" THICK LAYER OF WASHED GRAVEL.
2. TOP OF SLAB ELEVATION SHALL BE 92.00' (DATUM 0.00') UNLESS NOTED OTHERWISE.
3. TOP OF CONCRETE PIER ELEVATION SHALL BE 8" BELOW DATUM ELEVATION UNLESS NOTED OTHERWISE THUS [...].
4. TOP OF FOOTING ELEVATION SHALL BE 2'-0" BELOW DATUM ELEVATION UNLESS NOTED OTHERWISE THUS [...]. FOOTING ELEVATIONS ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE FIELD ADJUSTED. LOWER FOOTING AS REQUIRED BELOW UTILITY LINES AND INSTALL SLEEVES THROUGH CONCRETE AND MASONRY WALLS.
5. SEE ARCHITECTURAL DRAWINGS FOR DEPRESSED SLAB AREAS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR ALL NON-LOAD BEARING CMU PARTITIONS.



Columbia Engineering Inc.
Structural Engineers
6210 Old Dobbin Lane
Suite 150
Columbia, MD 21045
Tel 410.992.9
Fax 410.992.2



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandparker.com



GP #22105

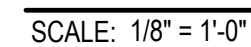
FOUNDATION AND SLAB ON GRADE PLAN- AREA G

NORTHEAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTHEAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

S100G

12/22/2023
BID SET



5. C=... DENOTES REQUIRED BEAM CAMBER.

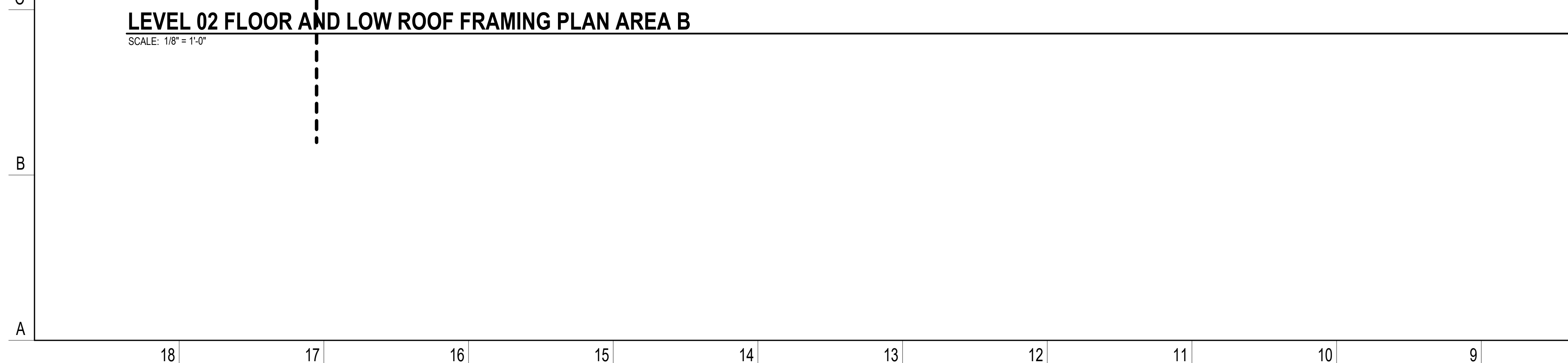
(R2*) DENOTES PREFABRICATED CANOPY. CANOPY REQUIRES DELEGATED DESIGN. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS TO A/E FOR REVIEW AND APPROVAL. REFER TO ARCHITECTURAL DOCUMENTS FOR DETAILS.



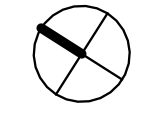
NORTH EAST MIDDLE / HIGH SCHOOL
3300 IRISHTOWN ROAD NORTH EAST MD

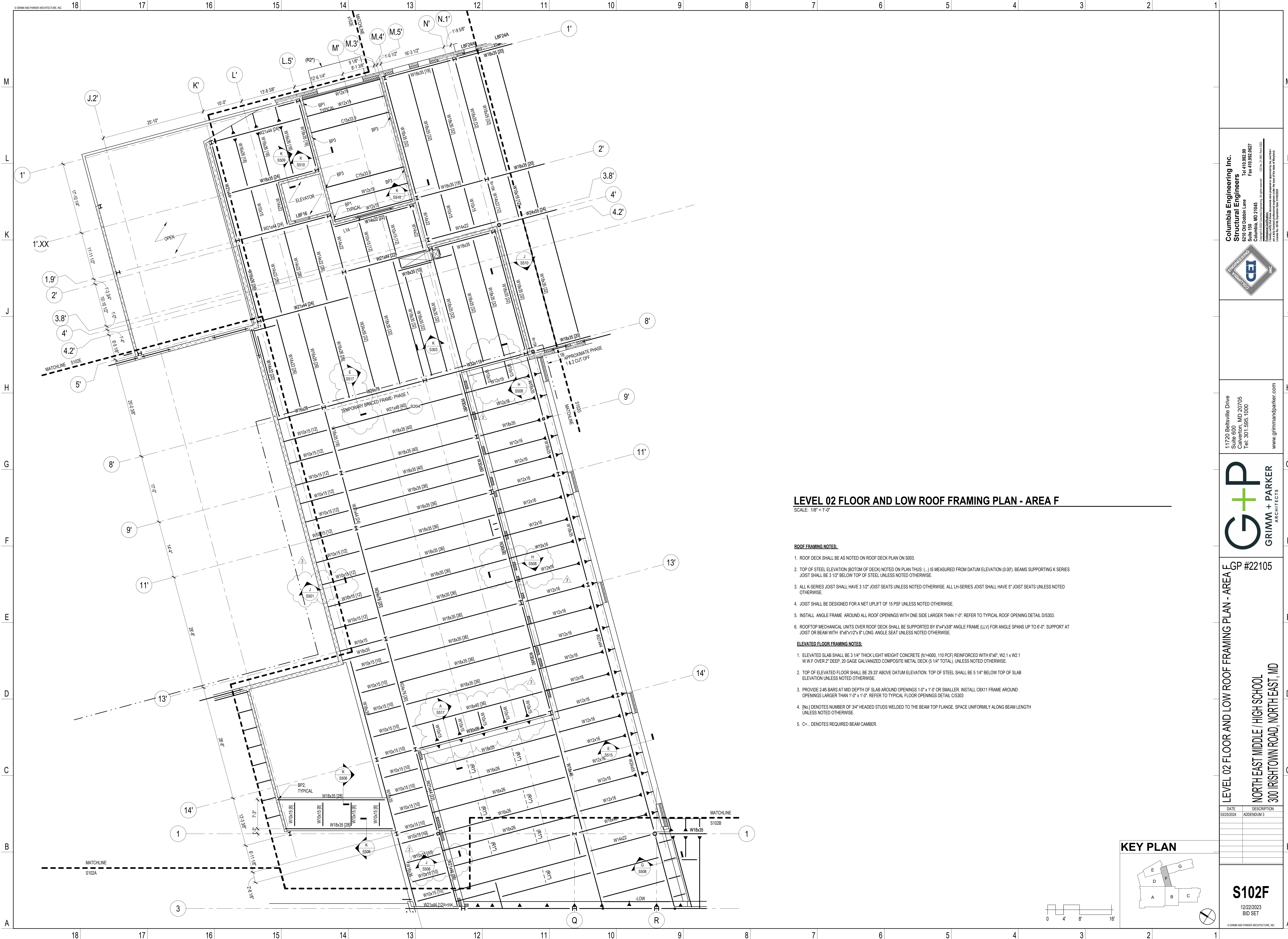
12/22/2023

© GRIMM AND PARKER ARCHITECTURE, INC.



1. ROOF DECK SHALL BE AS NOTED ON ROOF DECK PLAN ON S303.
2. TOP OF STEEL ELEVATION (BOTTOM OF DECK) NOTED ON PLAN THUS: (...) IS MEASURED FROM DATUM ELEVATION (0.00'). BEAMS SUPPORTING K SERIES JOIST SHALL BE 3/12" BELOW TOP OF STEEL UNLESS NOTED OTHERWISE.
3. ALL K-SERIES JOIST SHALL HAVE 3 1/2" JOIST SEATS UNLESS NOTED OTHERWISE. ALL LH-SERIES JOIST SHALL HAVE 5" JOIST SEATS UNLESS NOTED OTHERWISE.
4. JOIST SHALL BE DESIGNED FOR A NET UPLIFT OF 15 PSF UNLESS NOTED OTHERWISE.
5. INSTALL ANGLE FRAME AROUND ALL ROOF OPENINGS WITH ONE SIDE LARGER THAN 1'-0". REFER TO TYPICAL ROOF OPENING DETAIL D/S303.
6. ROOFTOP MECHANICAL UNITS OVER ROOF DECK SHALL BE SUPPORTED BY 6"x6"x2" ANGLE FRAME (LLV) FOR ANGLE SPANS UP TO 6'-0". SUPPORT AT JOIST OR BEAM WITH 6"x6"x12"x8" LONG ANGLE SEAT UNLESS NOTED OTHERWISE.

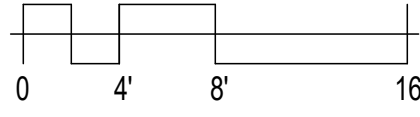
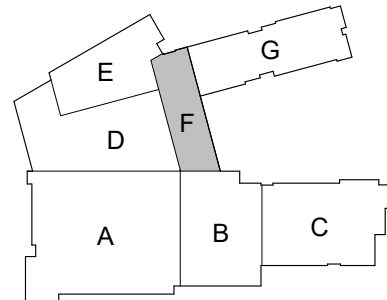




LEVEL 02 FLOOR AND LOW ROOF FRAMING PLAN - AREA F
SCALE: 1/8" = 1'-0"

- ROOF FRAMING NOTES:**
- ROOF DECK SHALL BE AS NOTED ON ROOF DECK PLAN ON S003.
 - TOP OF STEEL ELEVATION (BOTTOM OF DECK) NOTED ON PLAN THUS () IS MEASURED FROM DATUM ELEVATION (0.00'). BEAMS SUPPORTING K SERIES JOIST SHALL BE 3 1/2" BELOW TOP OF STEEL UNLESS NOTED OTHERWISE.
 - ALL K SERIES JOIST SHALL HAVE 3 1/2" JOIST SEATS UNLESS NOTED OTHERWISE. ALL LH-SERIES JOIST SHALL HAVE 5" JOIST SEATS UNLESS NOTED OTHERWISE.
 - JOIST SHALL BE DESIGNED FOR A NET UPLIFT OF 15 PSF UNLESS NOTED OTHERWISE.
 - INSTALL ANGLE FRAME AROUND ALL ROOF OPENINGS WITH ONE SIDE LARGER THAN 1'-0". REFER TO TYPICAL ROOF OPENING DETAIL DIS303.
 - ROOFTOP MECHANICAL UNITS OVER ROOF DECK SHALL BE SUPPORTED BY 6"x4"x3/8" ANGLE FRAME (LLV) FOR ANGLE SPANS UP TO 6'-0". SUPPORT AT JOIST OR BEAM WITH 6"x6"x1/2"x 8" LONG ANGLE SEAT UNLESS NOTED OTHERWISE.
- ELEVATED FLOOR FRAMING NOTES:**
- ELEVATED SLAB SHALL BE 3 1/4" THICK LIGHT WEIGHT CONCRETE (fc=4000, 110 PCF) REINFORCED WITH 6"x6", W2.1 x W2.1 W.W.F OVER 2" DEEP, 20 GAGE GALVANIZED COMPOSITE METAL DECK (5 1/4" TOTAL), UNLESS NOTED OTHERWISE.
 - TOP OF ELEVATED FLOOR SHALL BE 29.33' ABOVE DATUM ELEVATION. TOP OF STEEL SHALL BE 5 1/4" BELOW TOP OF SLAB ELEVATION UNLESS NOTED OTHERWISE.
 - PROVIDE 2-#5 BARS AT MID DEPTH OF SLAB AROUND OPENINGS 1'-0" x 1'-0" OR SMALLER. INSTALL C8x11 FRAME AROUND OPENINGS LARGER THAN 1'-0" x 1'-0". REFER TO TYPICAL FLOOR OPENINGS DETAIL C/S303.
 - (No.) DENOTES NUMBER OF 3/4" HEADED STUDS WELDED TO THE BEAM TOP FLANGE. SPACE UNIFORMLY ALONG BEAM LENGTH UNLESS NOTED OTHERWISE.
 - C... DENOTES REQUIRED BEAM CAMBER.

KEY PLAN



Columbia Engineering Inc.
Structural Engineers
6210 Old Dobson Lane
Columbia, MD 21045
Tel: 410.862.89
Fax: 410.862.867
Copyright © 2023 Columbia Engineering, Inc. All rights reserved.
This drawing was prepared by me, and I am a duly Licensed Professional Engineer in the State of Maryland.
11/16/2023



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.girmandparker.com

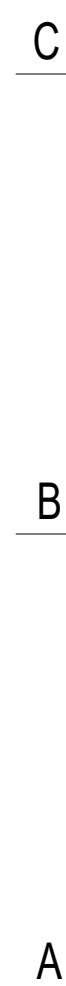


GP #22105

LEVEL 02 FLOOR AND LOW ROOF FRAMING PLAN - AREA F
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

S102F
12/22/2023
BID SET

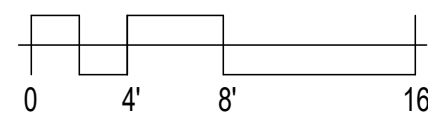
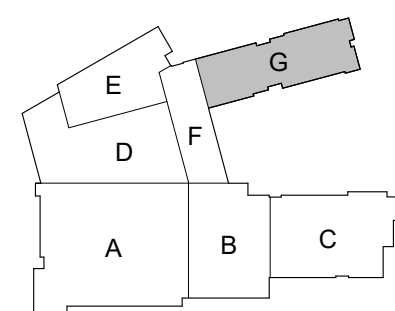


SCALE: 1/8" = 1'-0"

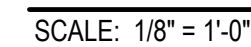
1. ELEVATED SLAB SHALL BE 3" THICK LIGHT WEIGHT CONCRETE (fc=4000, 10 PCF) REINFORCED WITH #6x, W2 x 12 I W.W/F OVER 2" DEEP, 20 GAUGE GALVANIZED COMPOSITE METAL DECK (5.14" TOTAL), UNLESS NOTED OTHERWISE.
2. TOP OF ELEVATED FLOOR SHALL BE 29.33' ABOVE DATUM ELEVATION. TOP OF STEEL SHALL BE 5.14" BELOW TOP OF SLAB ELEVATION UNLESS NOTED OTHERWISE.
3. PROVIDE 2-#5 BARS AT MID DEPTH OF SLAB AROUND OPENINGS 1'-0" x 1'-0" OR SMALLER. INSTALL C8X11 FRAME AROUND OPENINGS LARGER THAN 1'-0" x 1'-0". REFER TO TYPICAL FLOOR OPENINGS DETAIL C3533
4. [No] DENOTES NUMBER OF 3/4" HEATED STUDS WELDED TO THE BEAM TOP FLANGE. SPACE UNIFORMLY ALONG BEAM LENGTH UNLESS NOTED OTHERWISE.
5. C=...DENOTES REQUIRED BEAM CAMBER.

(R1*) DENOTES 3"x3"x1/4" ANGLE CROSS BRACING. ATTACH TO EACH BEAM WITH 5/16" CONNECTION PLATE. IF ADJACENT MEMBER IS OPEN-WEB STEEL JOIST, INSTALL SINGLE 3"x3"x1/4" ANGLE KICKER FROM BOTTOM OF BEAM TO TOP CHORD PANEL POINT.

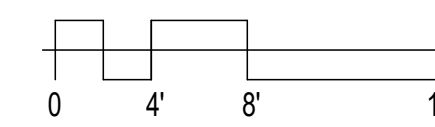
(R2*) DENOTES PREFABRICATED CANOPY. CANOPY REQUIRES DELEGATED DESIGN. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS TO A/E FOR REVIEW AND APPROVAL. REFER TO ARCHITECTURAL DOCUMENTS FOR DETAILS.



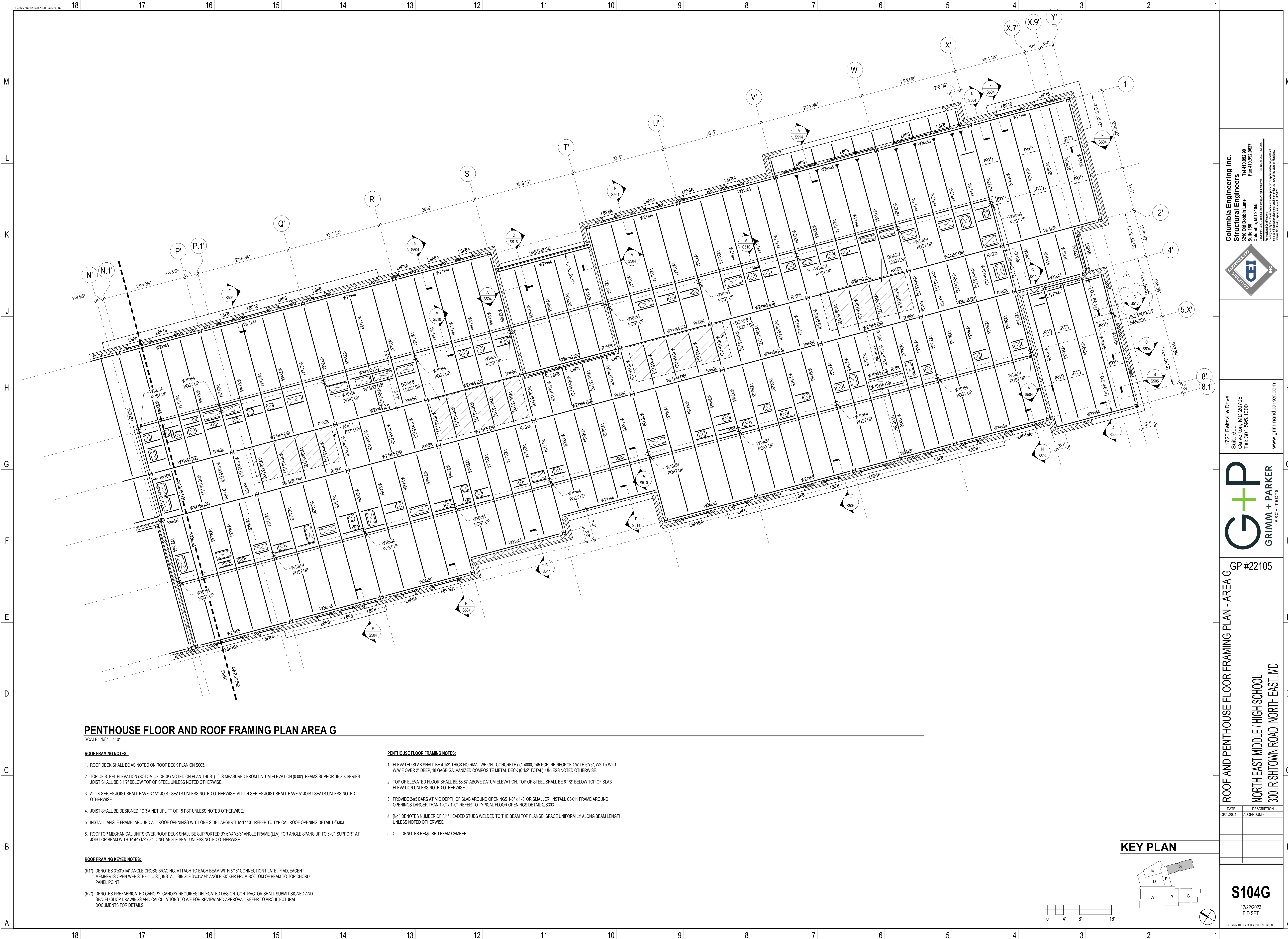
© GRIMM AND PARKER ARCHITECTURE.



5. C=... DENOTES REQUIRED BEAM CAMBER



© GRIMM AND PARKER ARCHITECTURE, INC.



PENTHOUSE FLOOR AND ROOF FRAMING PLAN AREA G
SCALE: 1/8" = 1'-0"

ROOF FRAMING NOTES:

1. ROOF DECK SHALL BE AS NOTED ON ROOF DECK PLAN ON S003.
2. TOP OF STEEL ELEVATION (BOTTOM OF DECK) NOTED ON PLAN THUS: () IS MEASURED FROM DATUM ELEVATION (0.00'). BEAMS SUPPORTING K SERIES JOIST SHALL BE 3 1/2" BELOW TOP OF STEEL UNLESS NOTED OTHERWISE.
3. ALL K-SERIES JOIST SHALL HAVE 3 1/2" JOIST SEATS UNLESS NOTED OTHERWISE. ALL LH-SERIES JOIST SHALL HAVE 5" JOIST SEATS UNLESS NOTED OTHERWISE.
4. JOIST SHALL BE DESIGNED FOR A NET UPLIFT OF 15 PSF UNLESS NOTED OTHERWISE.
5. INSTALL ANGLE FRAME AROUND ALL ROOF OPENINGS WITH ONE SIDE LARGER THAN 1'-0". REFER TO TYPICAL ROOF OPENING DETAIL D/S303.
6. ROOFTOP MECHANICAL UNITS OVER ROOF DECK SHALL BE SUPPORTED BY 6"x4"x3/8" ANGLE FRAME (LLV) FOR ANGLE SPANS UP TO 6'-0". SUPPORT AT JOIST OR BEAM WITH 6"x6"x12"x 8" LONG ANGLE SEAT UNLESS NOTED OTHERWISE.

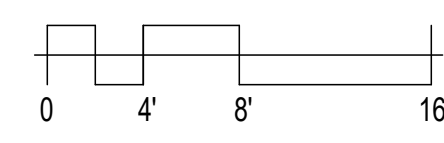
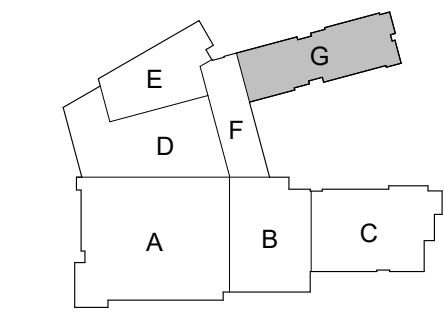
ROOF FRAMING KEYED NOTES:

- (R1') DENOTES 3"x3"x1/4" ANGLE CROSS BRACING. ATTACH TO EACH BEAM WITH 5/16" CONNECTION PLATE. IF ADJACENT MEMBER IS OPEN-WEB STEEL JOIST, INSTALL SINGLE 3"x3"x1/4" ANGLE KICKER FROM BOTTOM OF BEAM TO TOP CHORD PANEL POINT.
- (R2') DENOTES PREFABRICATED CANOPY. CANOPY REQUIRES DELEGATED DESIGN. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS TO A/E FOR REVIEW AND APPROVAL. REFER TO ARCHITECTURAL DOCUMENTS FOR DETAILS.

PENTHOUSE FLOOR FRAMING NOTES:

1. ELEVATED SLAB SHALL BE 4 1/2" THICK NORMAL WEIGHT CONCRETE (FC=4000, 145 PCF) REINFORCED WITH 6"x6", W2.1 x W2.1 W.W.F OVER 2" DEEP, 18 GAGE GALVANIZED COMPOSITE METAL DECK (6 1/2" TOTAL), UNLESS NOTED OTHERWISE.
2. TOP OF ELEVATED FLOOR SHALL BE 58.67' ABOVE DATUM ELEVATION. TOP OF STEEL SHALL BE 6 1/2" BELOW TOP OF SLAB ELEVATION UNLESS NOTED OTHERWISE.
3. PROVIDE 2-#5 BARS AT MID DEPTH OF SLAB AROUND OPENINGS 1'-0" x 1'-0" OR SMALLER. INSTALL C8X11 FRAME AROUND OPENINGS LARGER THAN 1'-0" x 1'-0". REFER TO TYPICAL FLOOR OPENINGS DETAIL C/S303.
4. (N6) DENOTES NUMBER OF 3/4" HEADED STUDS WELDED TO THE BEAM TOP FLANGE. SPACE UNIFORMLY ALONG BEAM LENGTH UNLESS NOTED OTHERWISE.
5. C=... DENOTES REQUIRED BEAM CAMBER.

KEY PLAN



Columbia Engineering Inc.
Structural Engineers
6210 Old Dobbin Lane
Columbia, MD 21045
Tel: 410.862.89
Fax: 410.862.867
C.E. No. 21-087 (June 2022)
Professional Engineer
The information contained herein was prepared or approved by me, and I am a duly Licensed Professional Engineer in the State of Maryland.
Copyright © 2022 Columbia Engineering, Inc. All Rights Reserved.
This drawing is the property of Columbia Engineering, Inc. and is not to be reproduced without written permission.



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



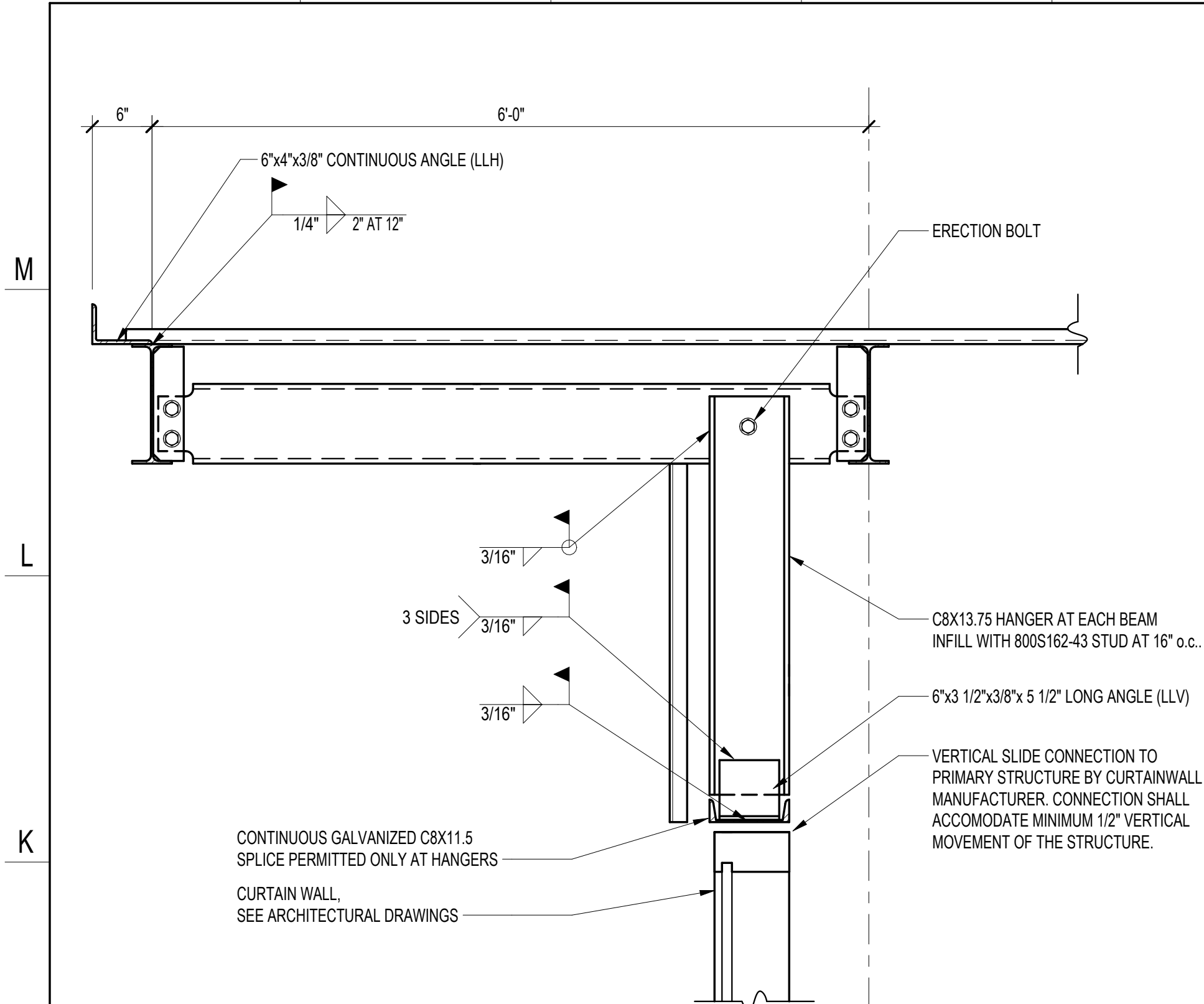
GP #22105

ROOF AND PENTHOUSE FLOOR FRAMING PLAN - AREA G
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

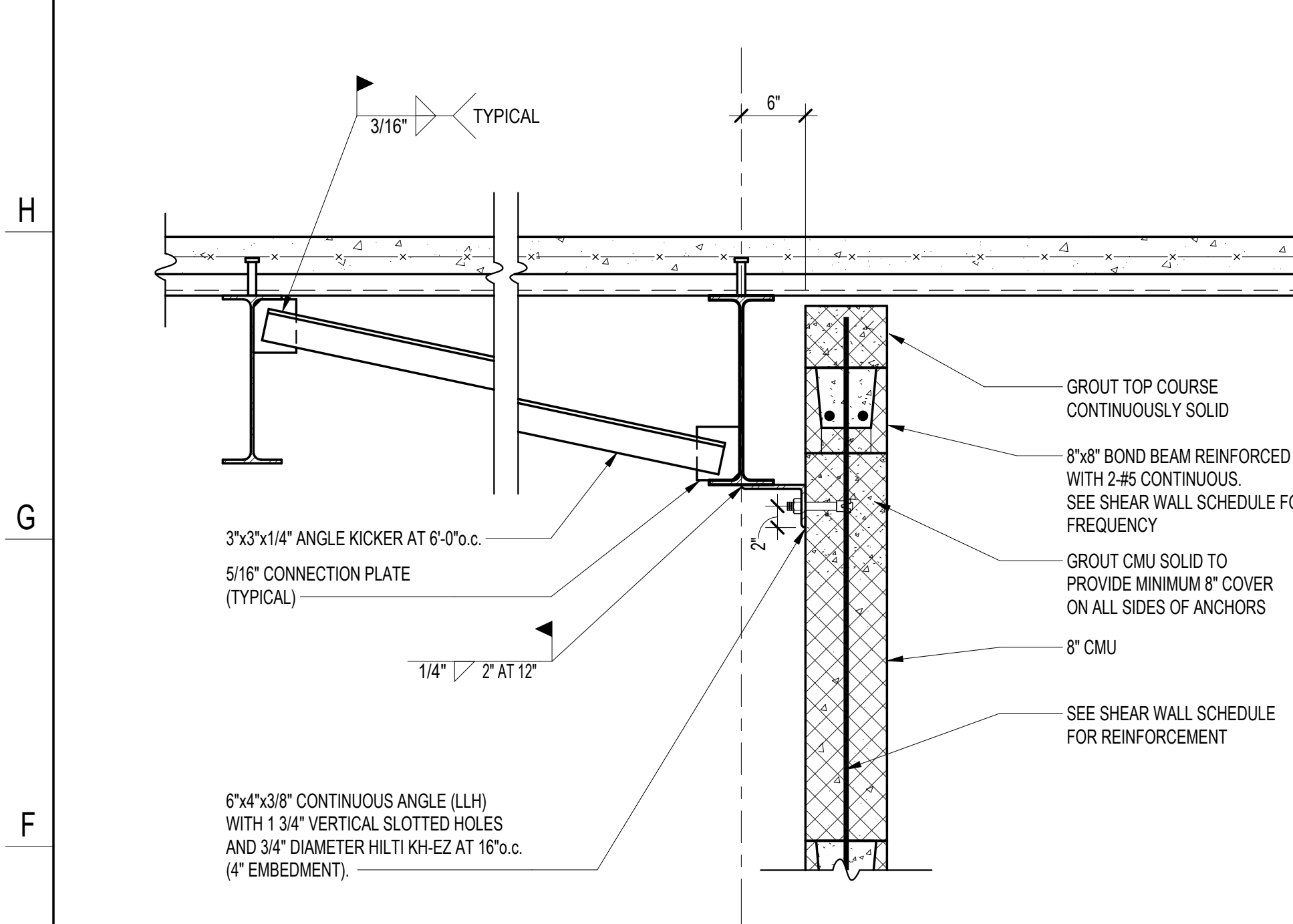
DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

S104G
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.

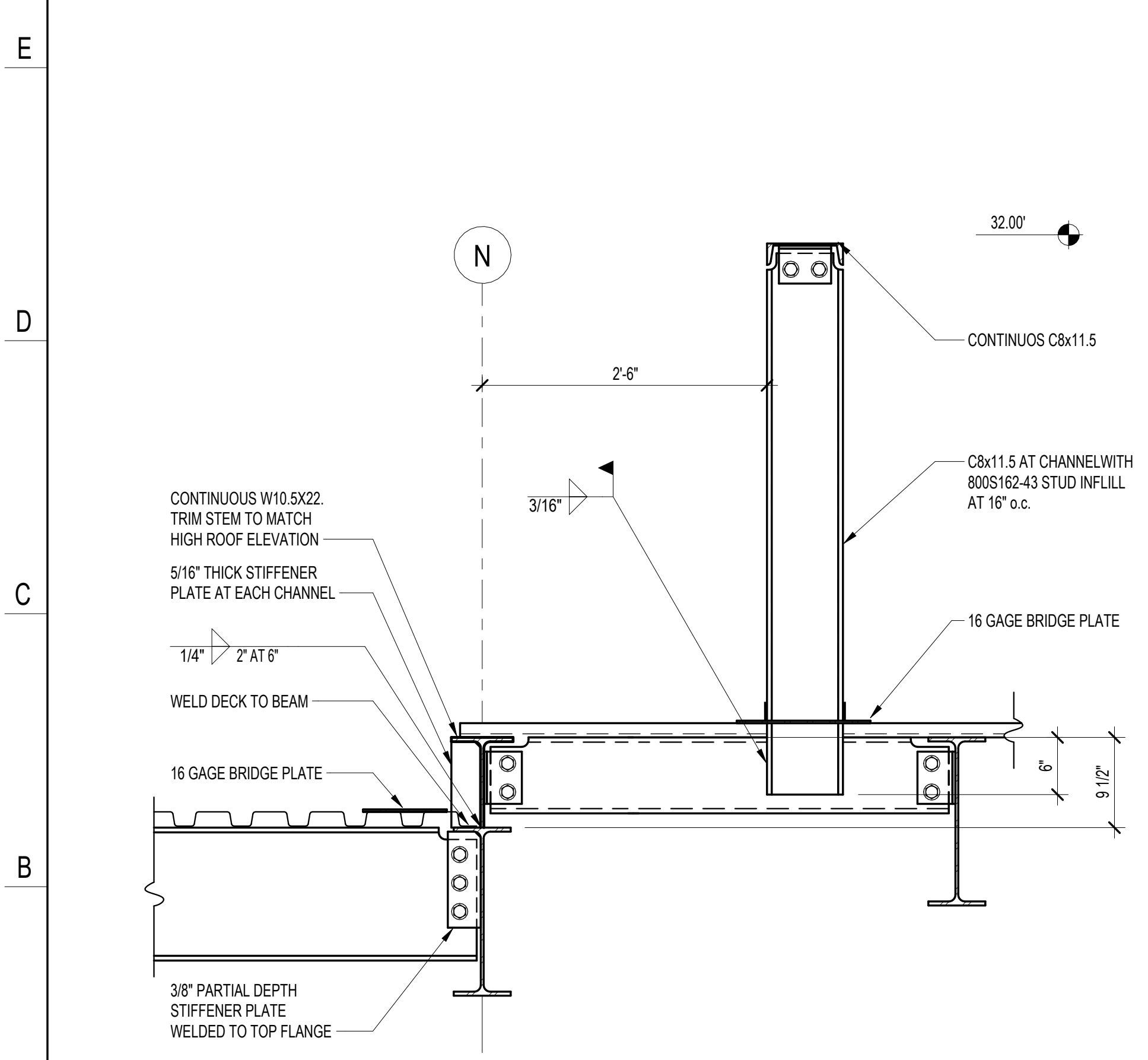




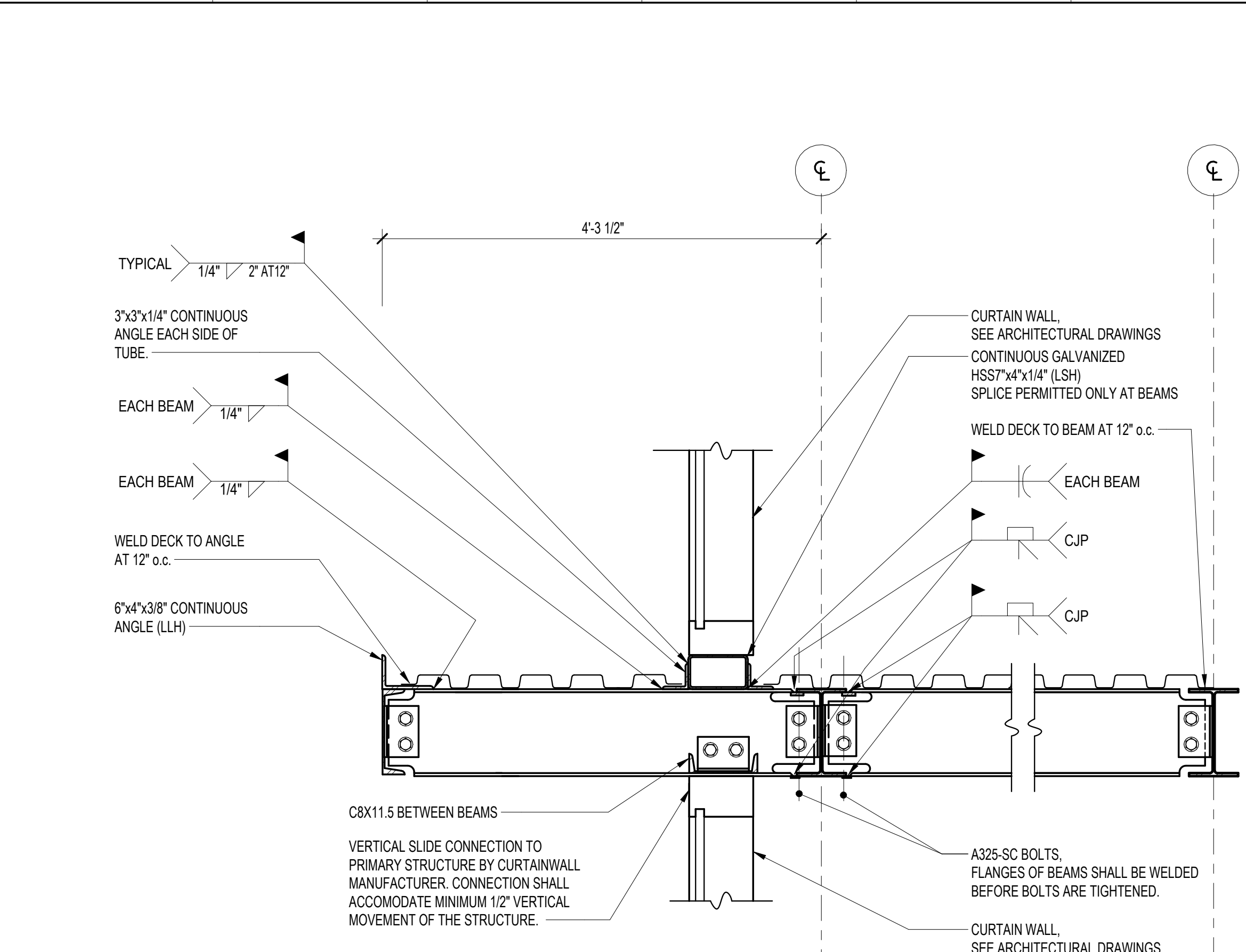
A SECTION
S508 SCALE: 1" = 1'-0"



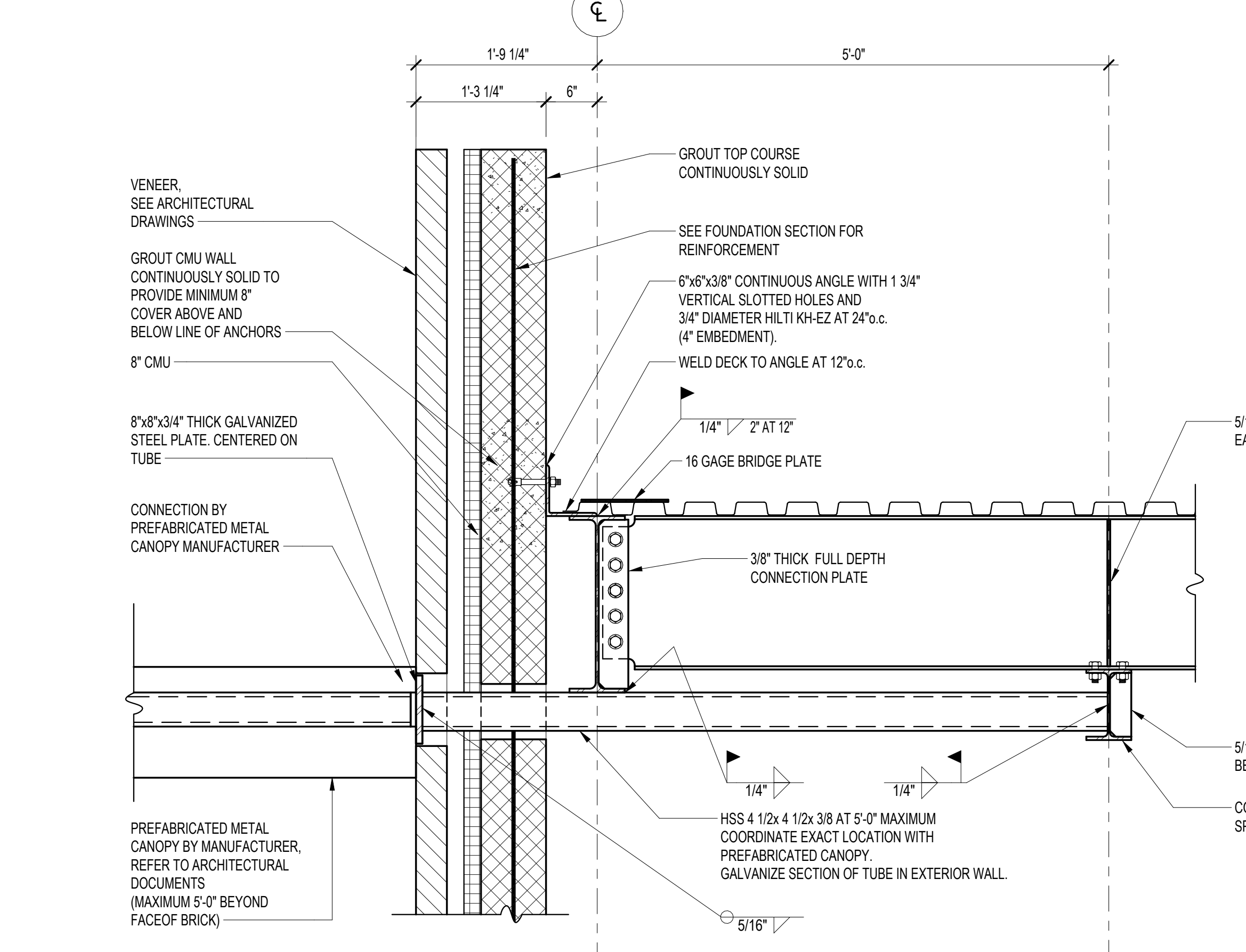
D SECTION
S508 SCALE: 1" = 1'-0"



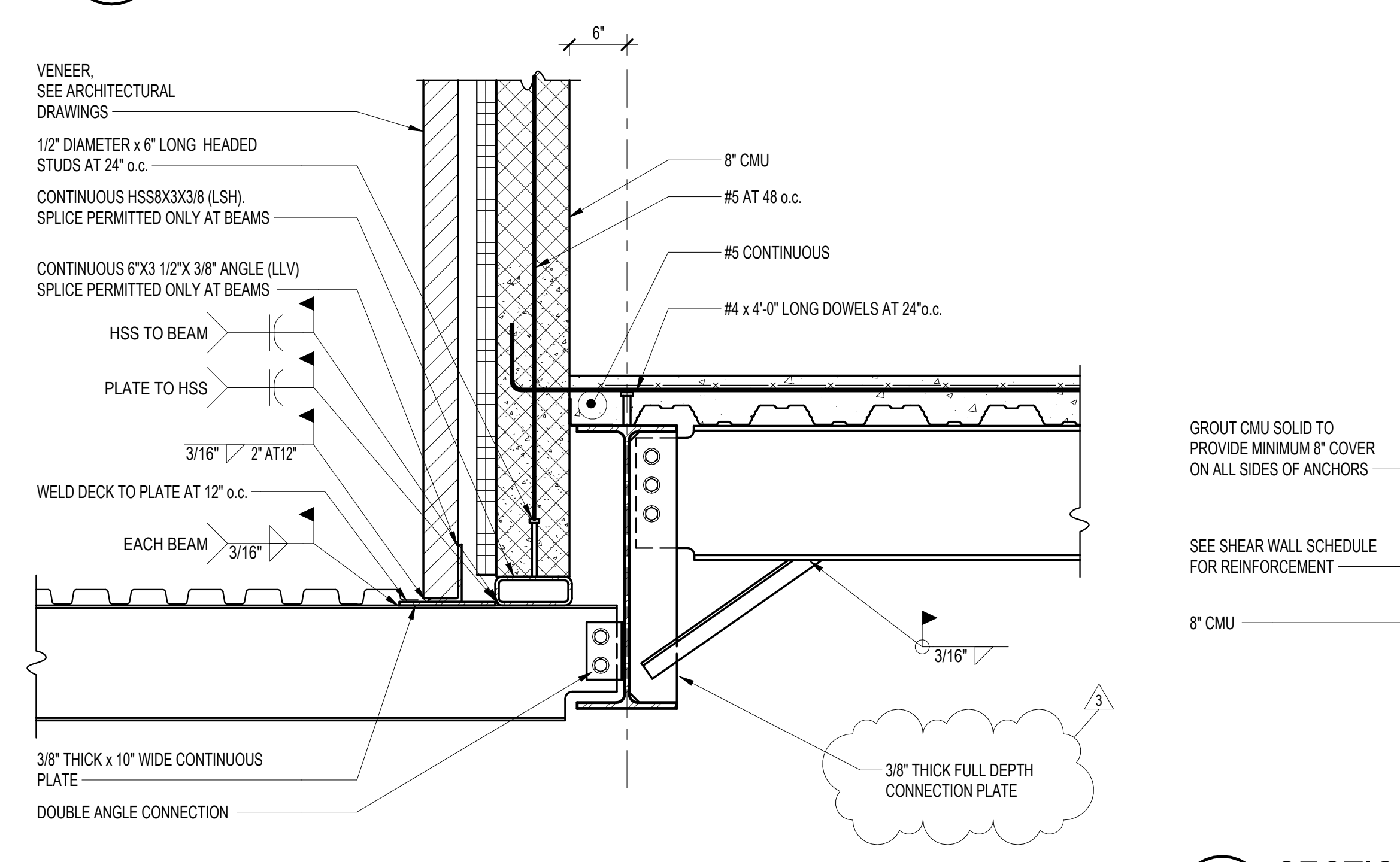
G SECTION
S508 SCALE: 1" = 1'-0"



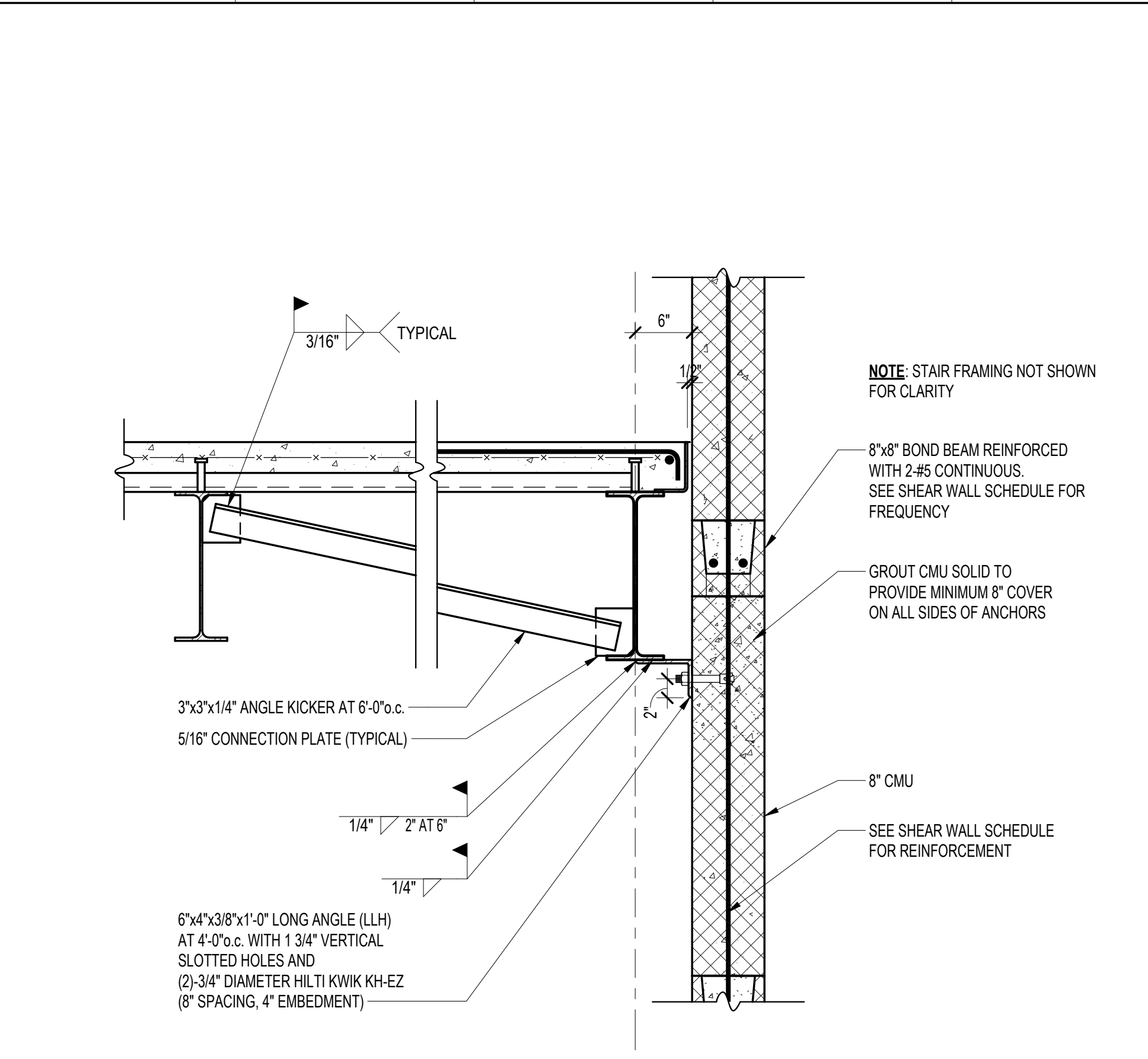
B SECTION
S508 SCALE: 1" = 1'-0"



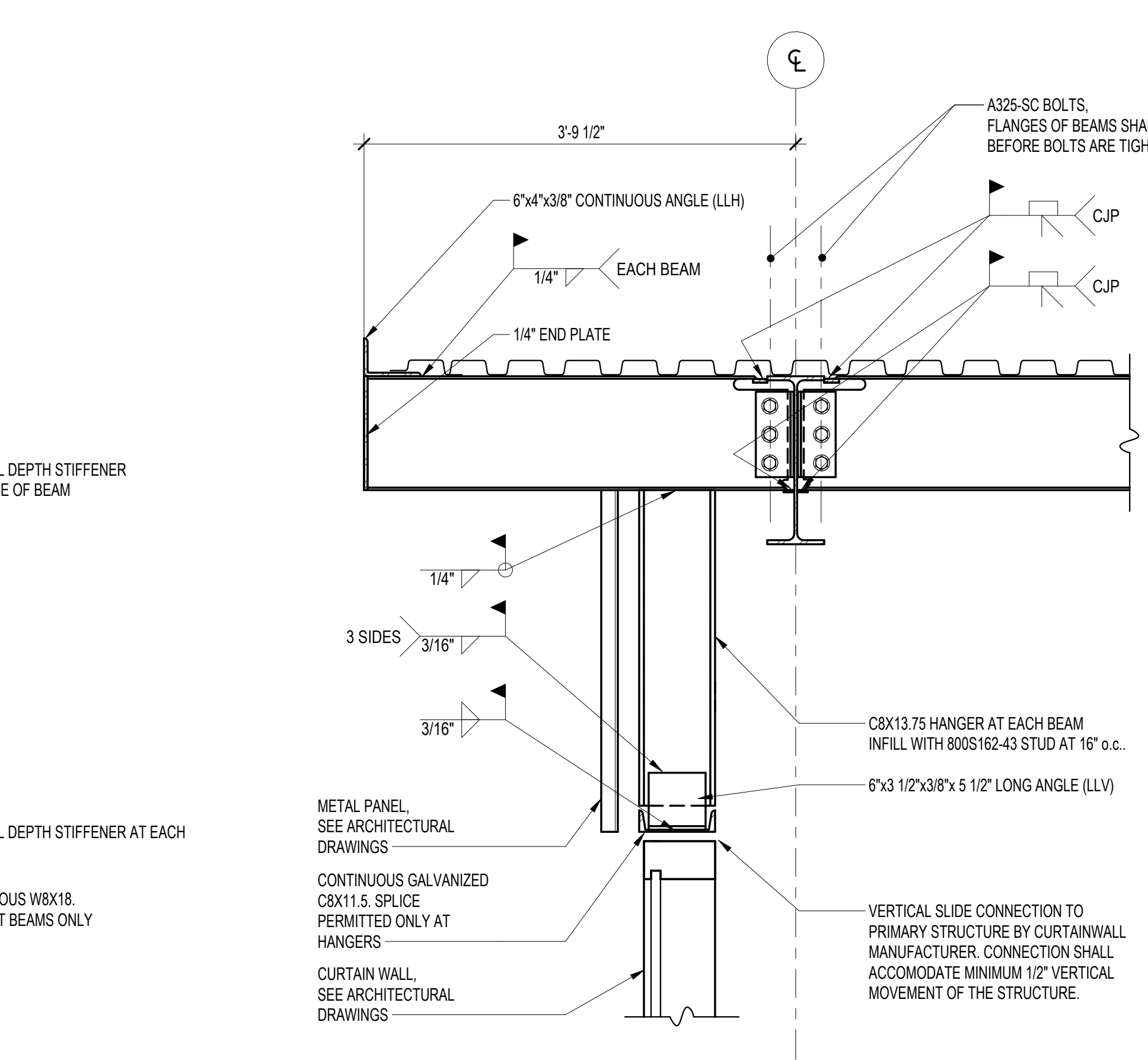
E SECTION
S508 SCALE: 1" = 1'-0"



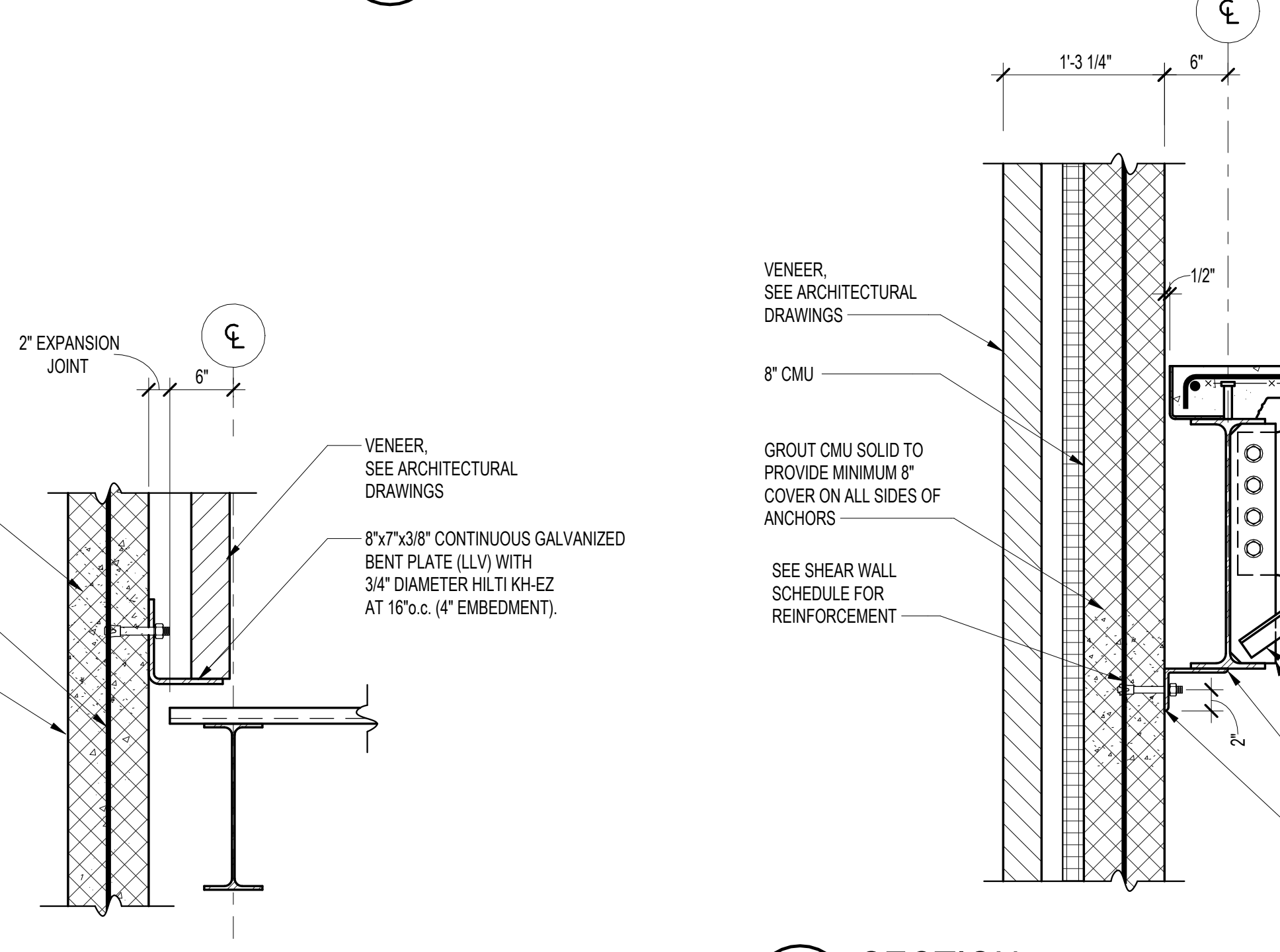
H SECTION
S508 SCALE: 1" = 1'-0"



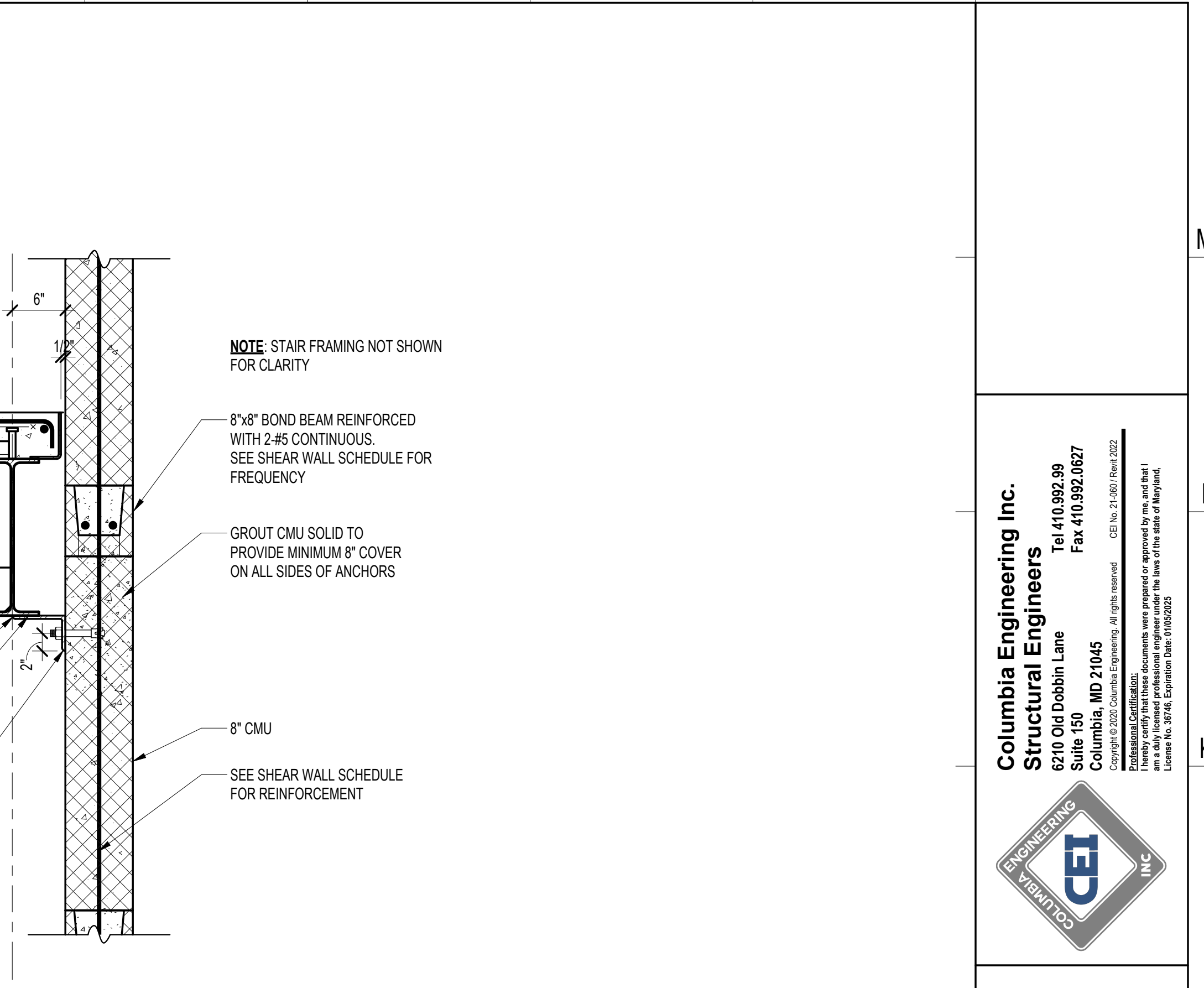
C SECTION
S508 SCALE: 1" = 1'-0"



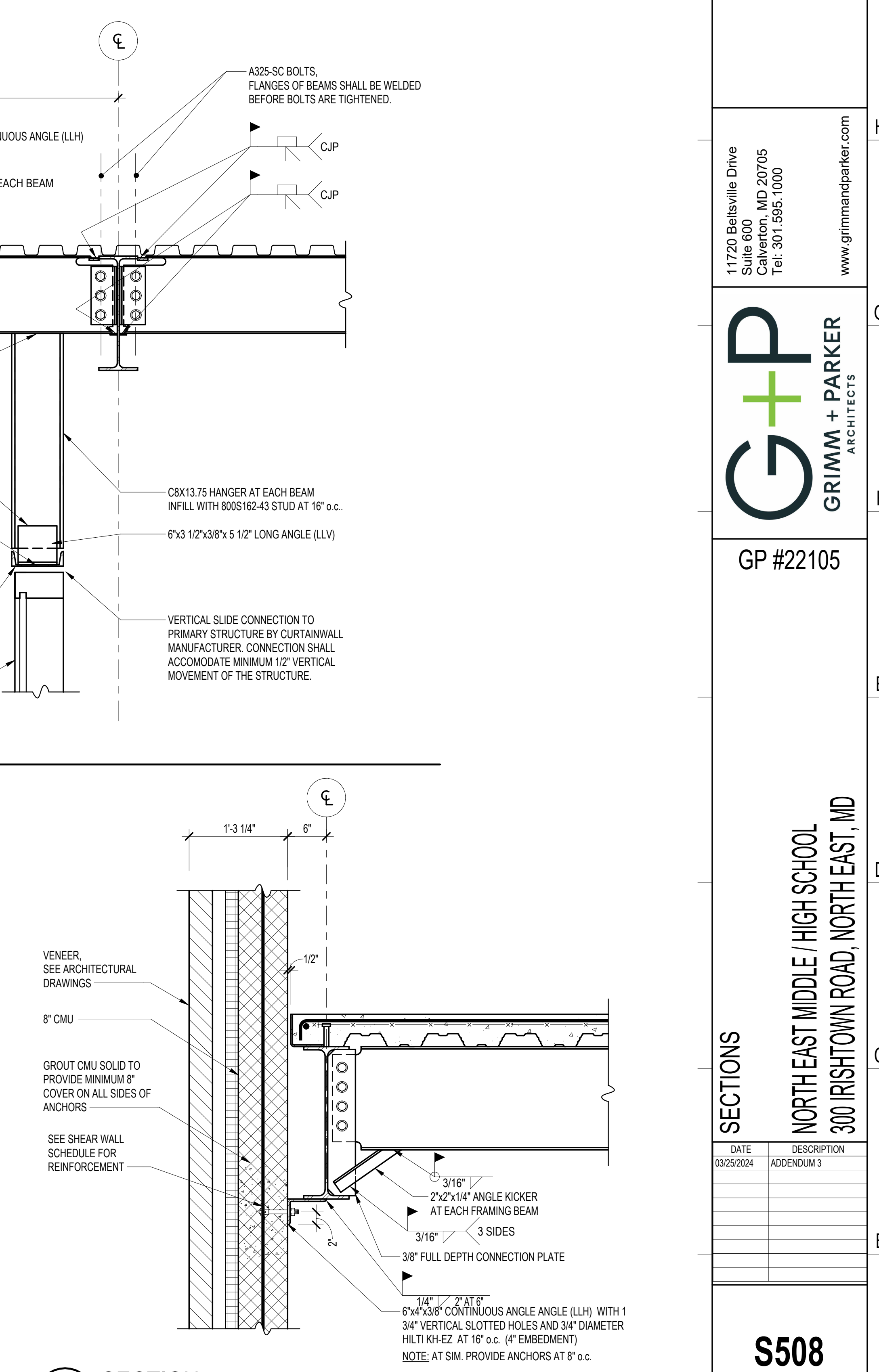
F SECTION
S508 SCALE: 1" = 1'-0"



J SECTION
S508 SCALE: 1" = 1'-0"



K SECTION
S508 SCALE: 1" = 1'-0"



I SECTION
S508 SCALE: 1" = 1'-0"

Columbia Engineering Inc.
Structural Engineers
620 Old Dobson Lane
Columbia, MD 21045
Tel: 410.862.8239
Fax: 410.862.8237
www.columbiaeng.com

ENGINEERING
MD 000001

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

GP #22105

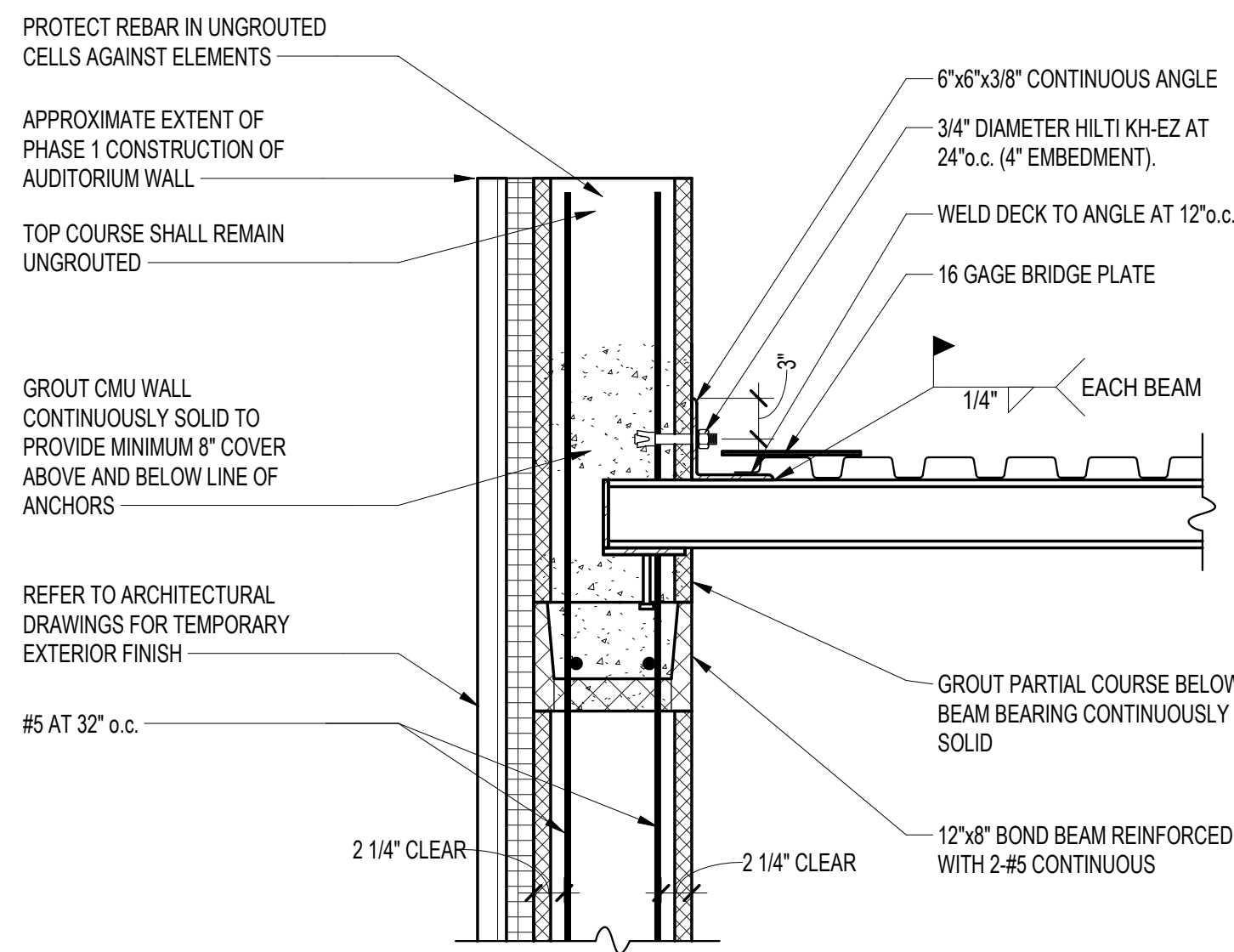
SECTIONS

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

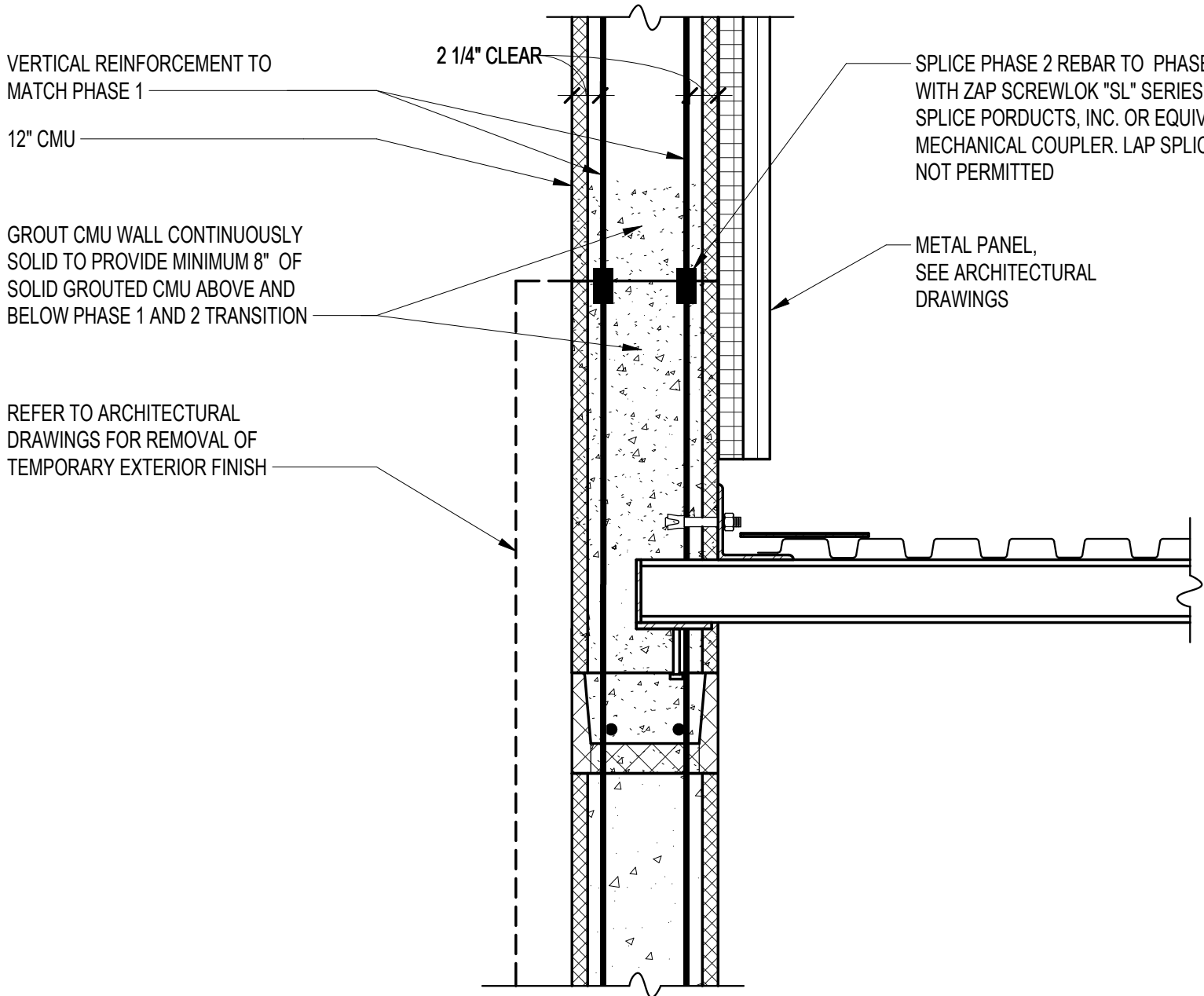
S508
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

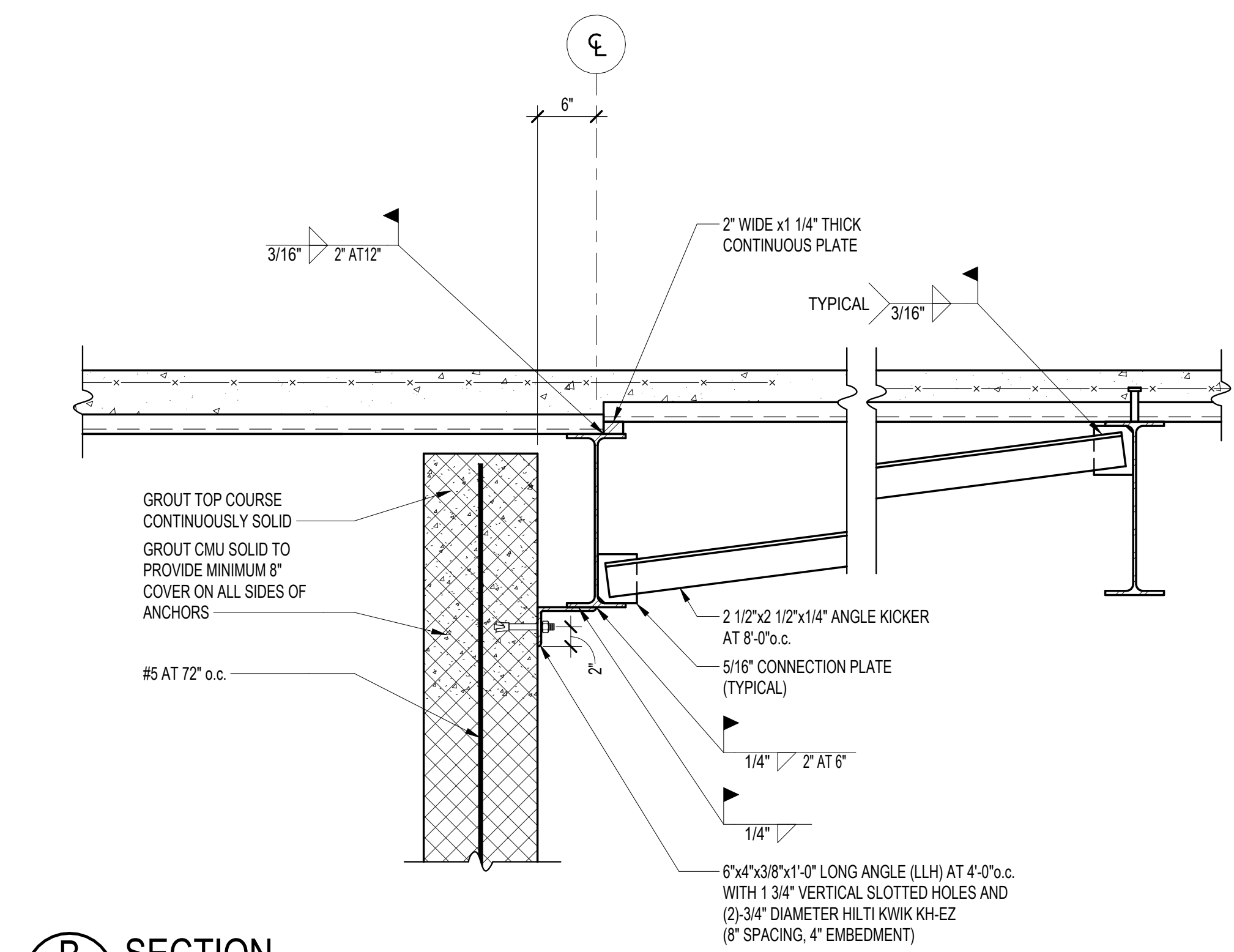


A SECTION
S513 SCALE: 1" = 1'-0"

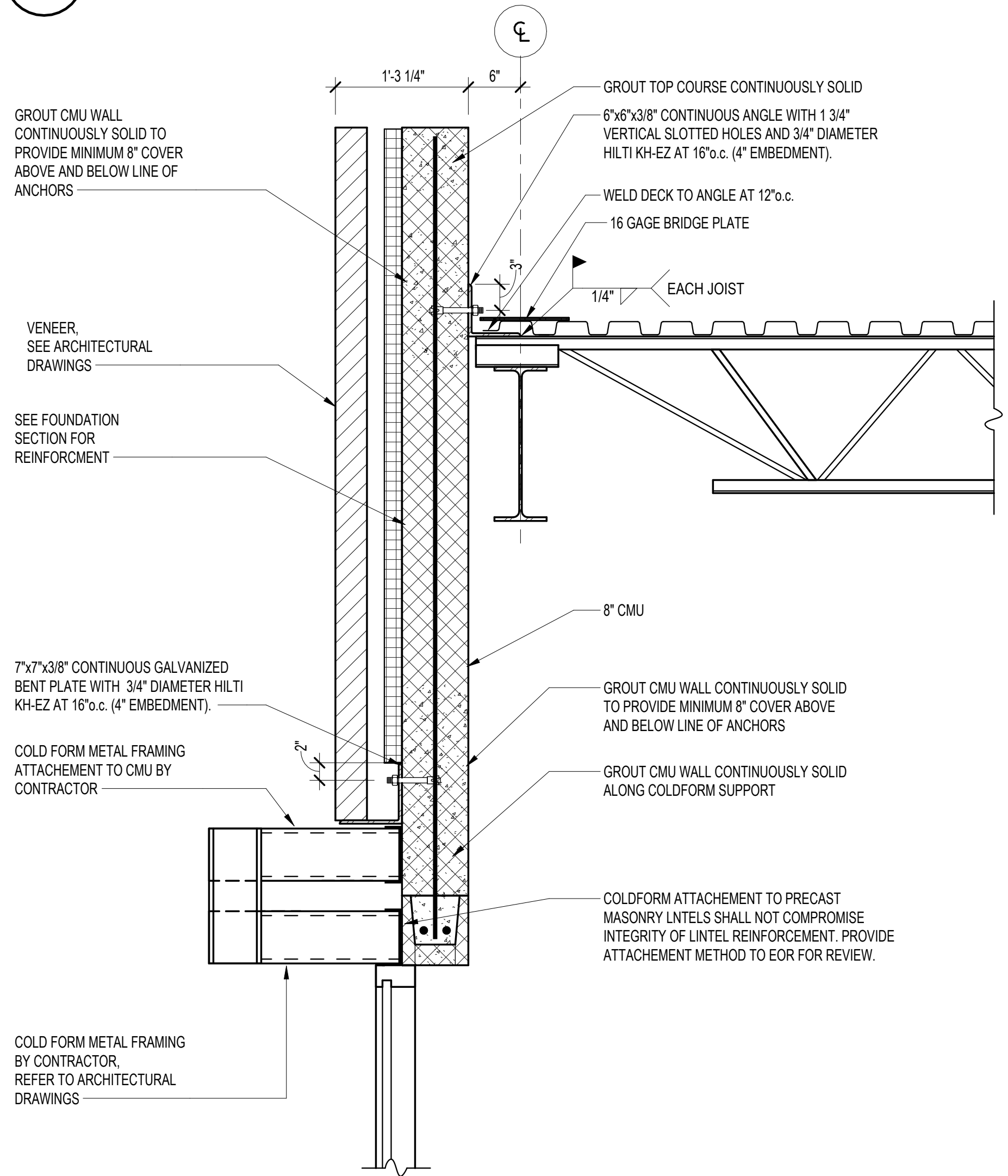
PHASE 1



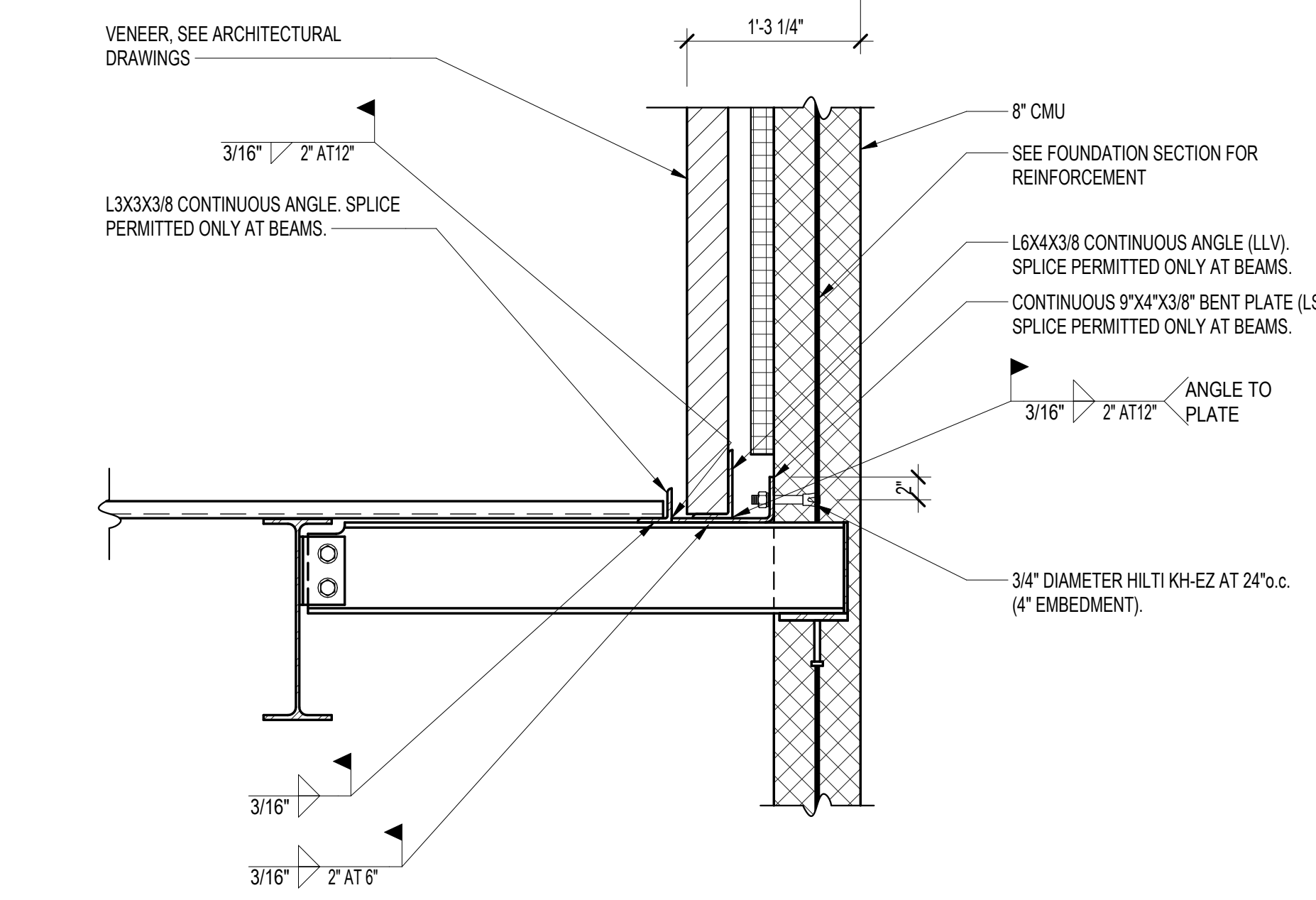
PHASE 2



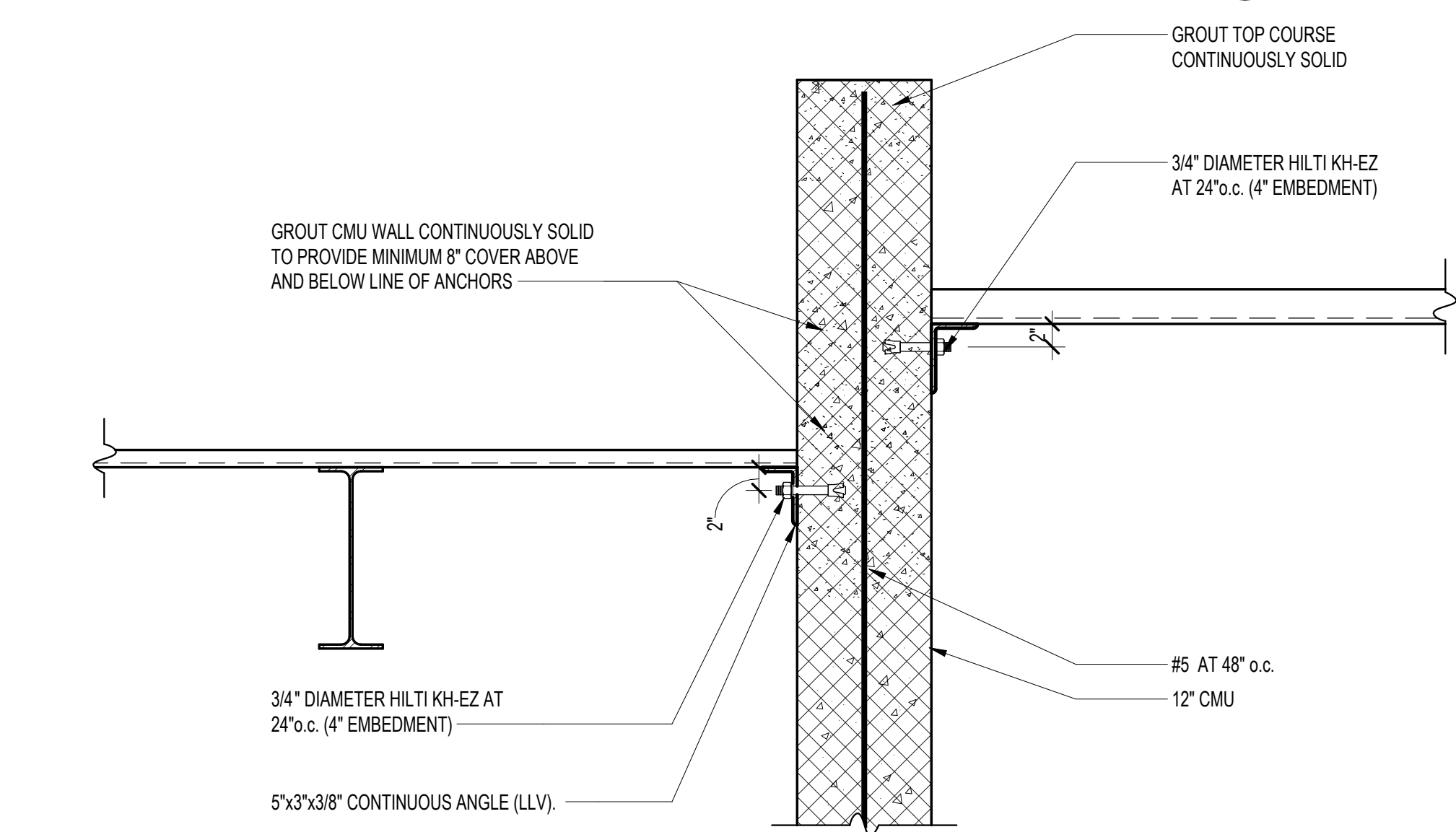
B SECTION
S513 SCALE: 1" = 1'-0"



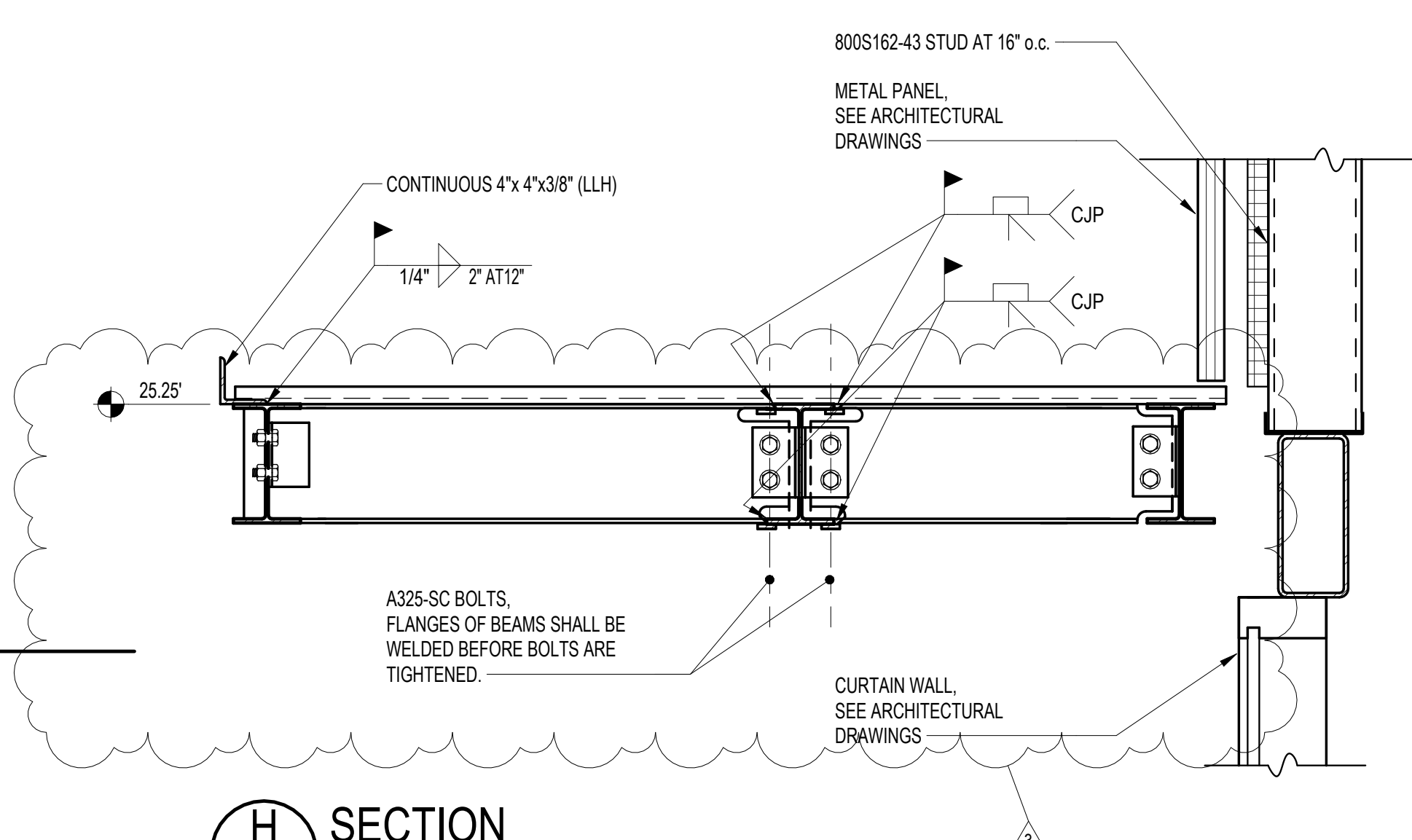
C SECTION
S513 SCALE: 1" = 1'-0"



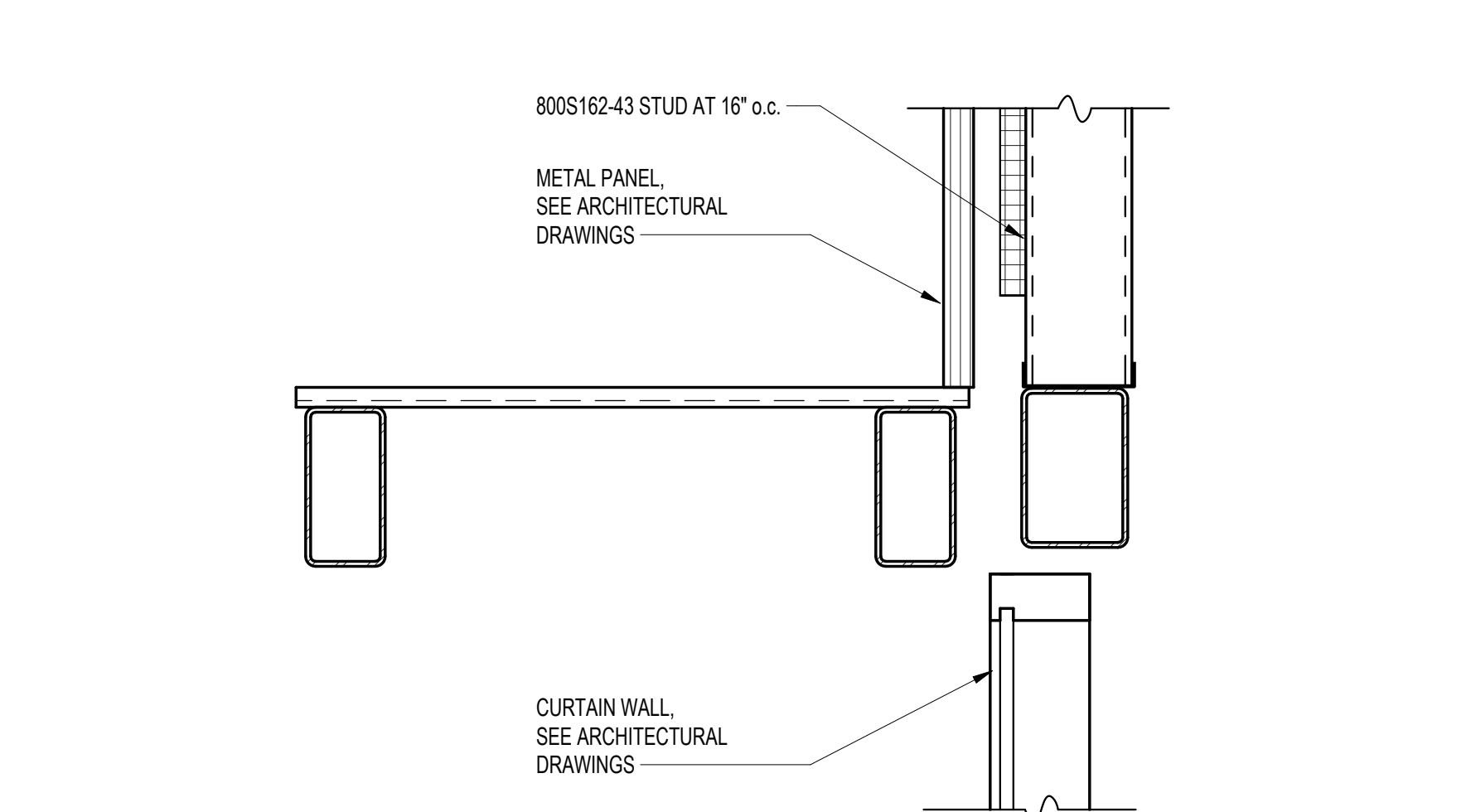
G SECTION
S513 SCALE: 1" = 1'-0"



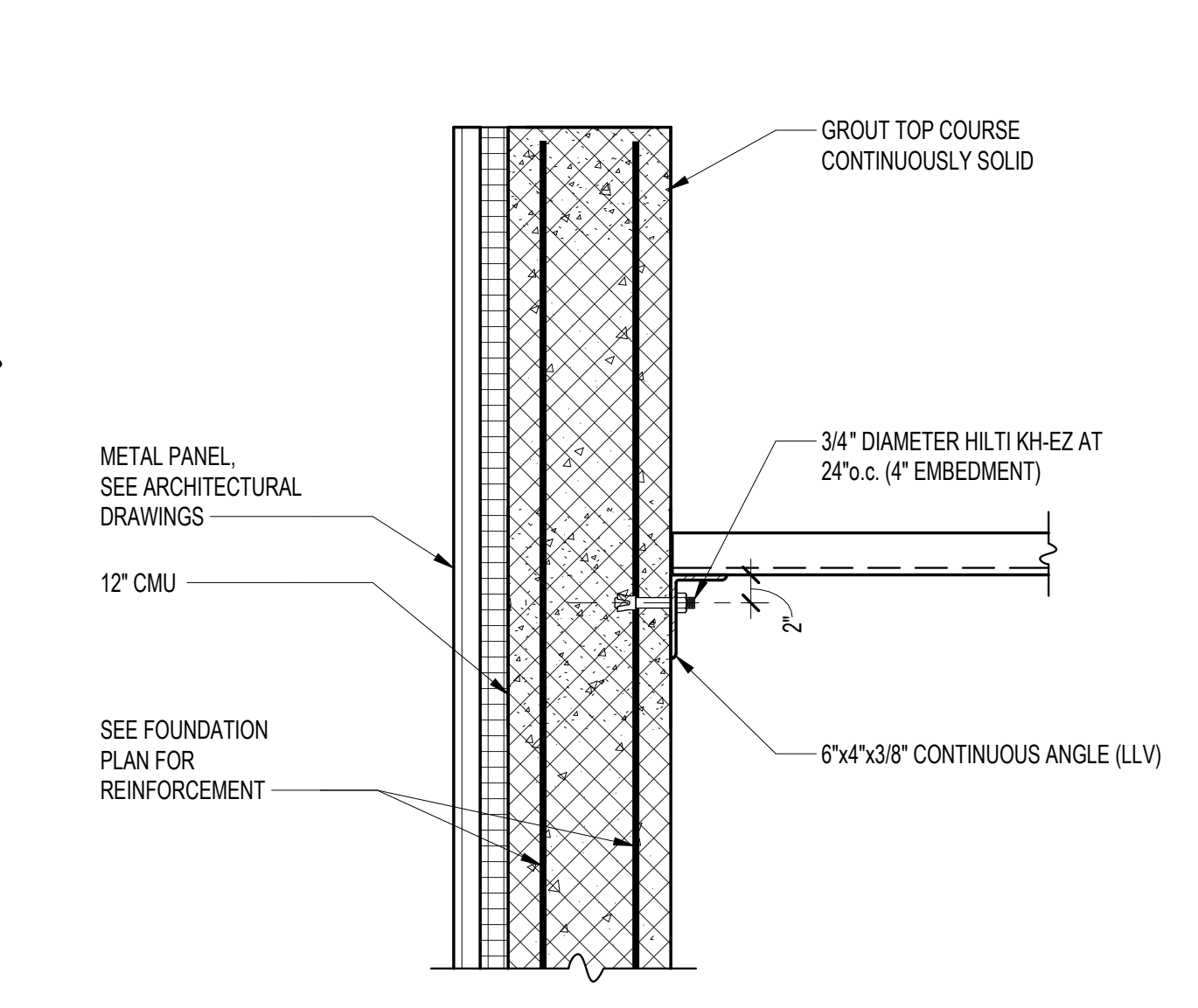
D SECTION
S513 SCALE: 1" = 1'-0"



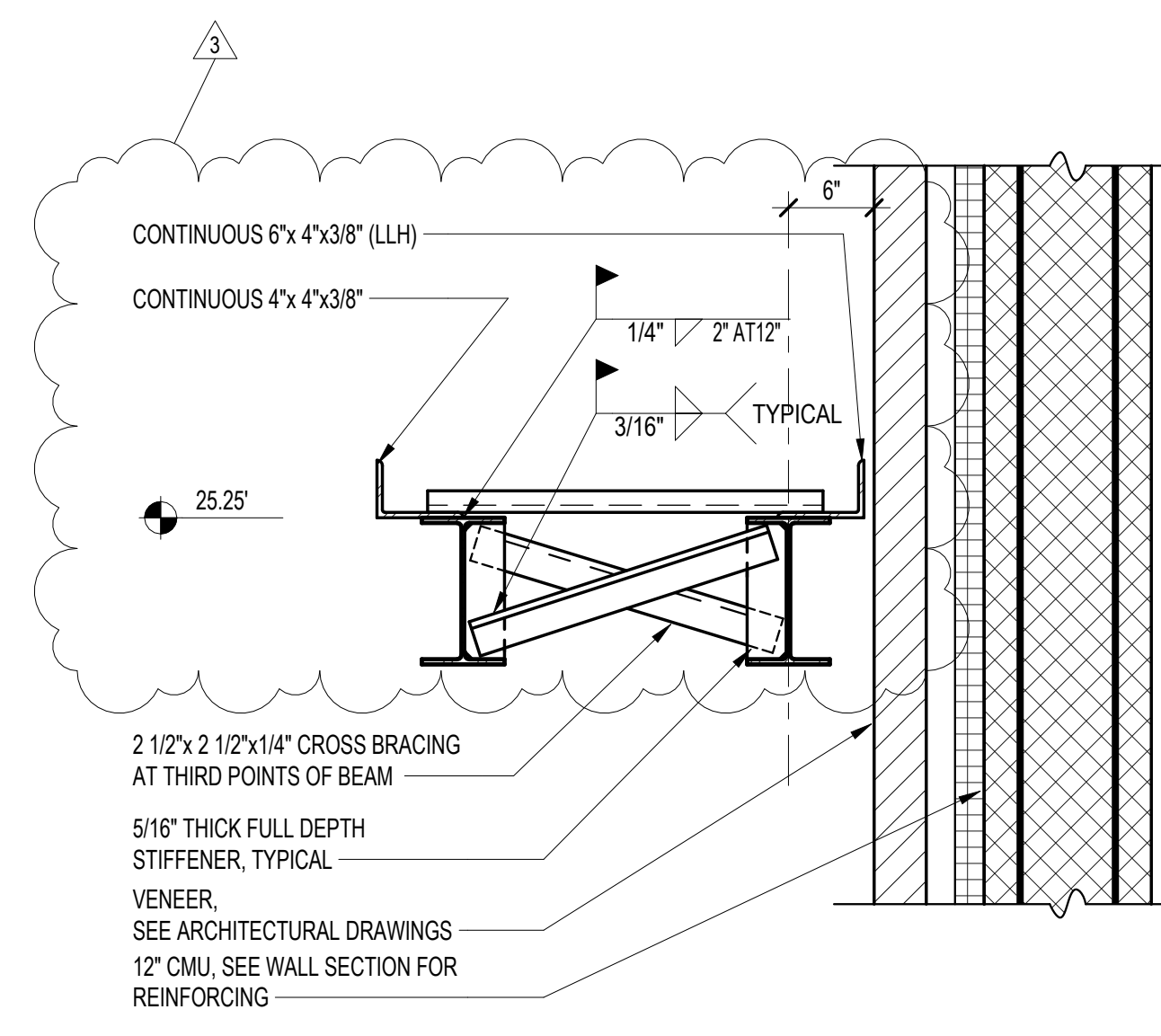
H SECTION
S513 SCALE: 1" = 1'-0"



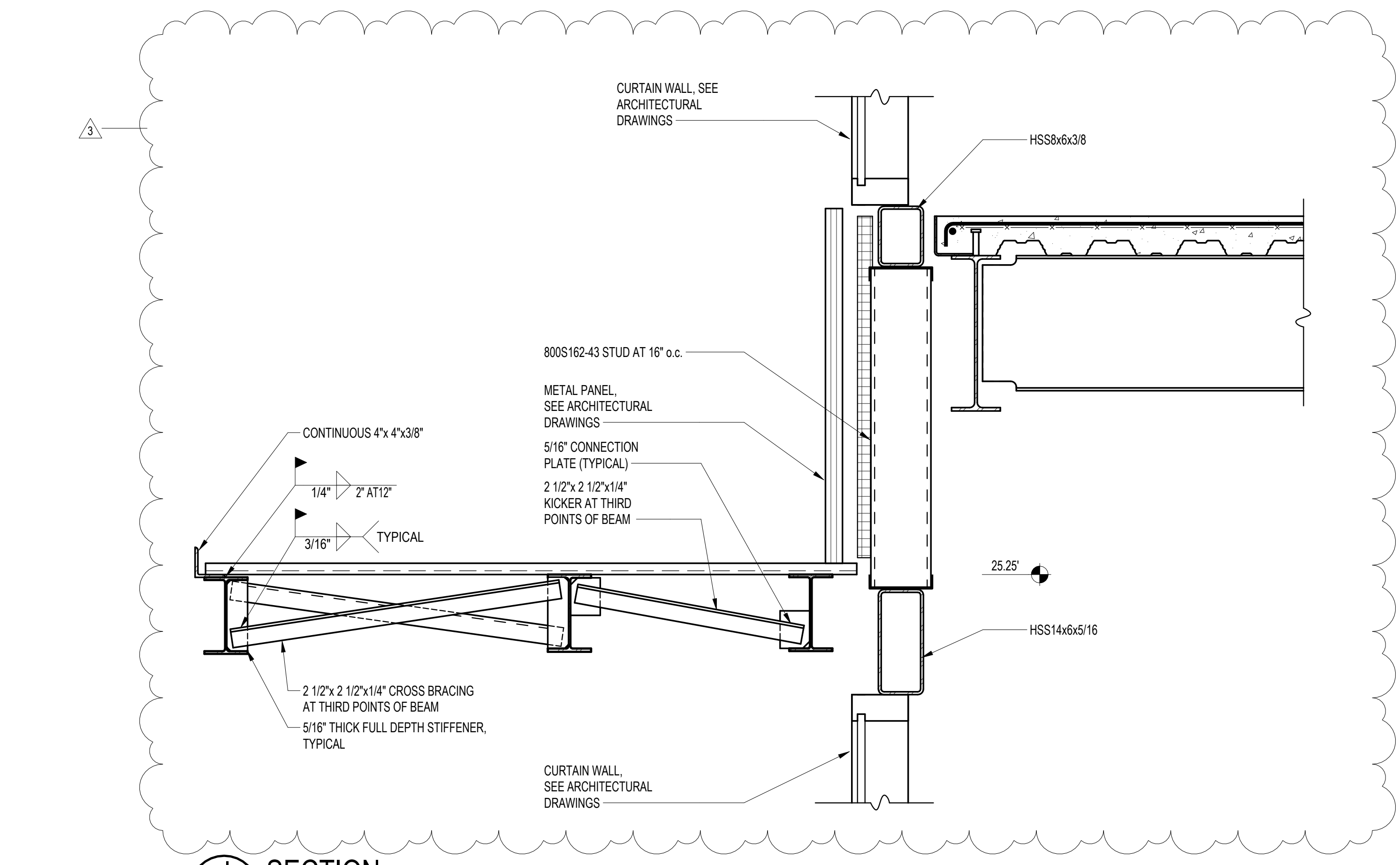
K SECTION
S513 SCALE: 1" = 1'-0"



E SECTION
S513 SCALE: 1" = 1'-0"



F SECTION
S513 SCALE: 1" = 1'-0"



J SECTION
S513 SCALE: 1" = 1'-0"

Columbia Engineering Inc.
Structural Engineers
620 Old Dobbin Lane
Columbia, MD 21045
Tel: 410.862.89
Fax: 410.862.867
CEN No. 21-081 (Jan 2022)
Copyright © 2022 Columbia Engineering, Inc. All rights reserved.
This drawing and its contents were prepared or approved by me, and I am a duly Licensed Professional Engineer in the State of Maryland.
I hereby certify that this drawing was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Maryland.



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



GP #22105

SECTIONS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

S513
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.



www.grimmandparker.com

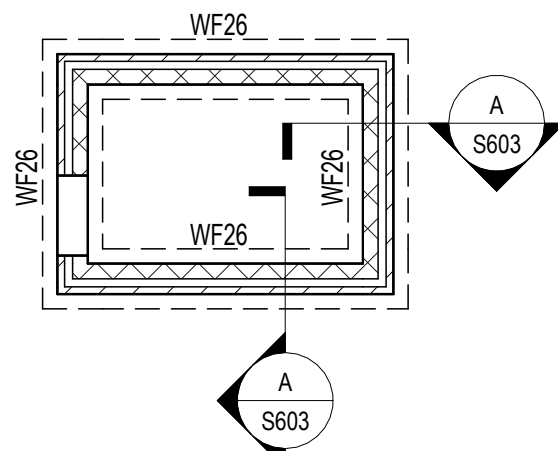


GP #22105

SECTIONS

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

S517
03/22/2024
BID SET

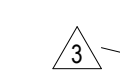


FOUNDATION AND SLAB ON GRADE PLAN - TICKETING

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

1. ROOF DECK SHALL BE 1 1/2" 20 GAGE TYPE B GALVANIZED METAL DECK (3 PAN MINIMUM). ATTACH DECK TO SUPPORTING STRUCTURE WITH 3/4" DIAMETER PUDDLE WELDS ON A 36" PATTERN AND NO. 10 SLIDELAP SCREWS AT 12" O.C. UNLESS NOTED OTHERWISE.
2. TOP OF STEEL ELEVATION (BOTTOM OF DECK) NOTED ON PLAN THIS (...). IS MEASURED FROM DATUM ELEVATION (0.00). BEAMS SUPPORTING K SERIES JOIST SHALL BE 3" 12" BELOW TOP OF DECK UNLESS NOTED OTHERWISE.
3. ALL K-SERIES JOIST SHALL HAVE 3" 12" JOIST SEATS UNLESS NOTED OTHERWISE.
4. JOIST SHALL BE DESIGNED FOR A NET UPLIFT OF 15 PSF UNLESS NOTED OTHERWISE.
5. INSTALL ANGLE FRAME AROUND ALL ROOF OPENINGS WITH ONE SIDE LARGER THAN 1'-0". REFER TO TYPICAL ROOF OPENING DETAIL D1303.
6. ROOFTOP MECHANICAL UNITS OVER ROOF DECK SHALL BE SUPPORTED BY 6"x4"x3/8" ANGLE FRAME (LLV) FOR ANGLE SPANS UP TO 6'-0". SUPPORT AT JOIST OR BEAM WITH 6"x6"x1/2" LONG ANGLE SEAT UNLESS NOTED OTHERWISE.



SCALE: 1/8" = 1'-0"

1. SLAB ON GRADE SHALL BE 4" THICK NORMAL WEIGHT CONCRETE (f' = 4000 PSI) REINFORCED WITH #5#2, V2.1X W2.1 W.W.F. ON 15 ML. VAPOR BARRIER OVER 6" THICK LAYER OF WASHED GRAVEL.

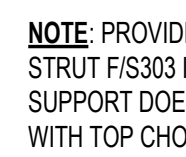
2. TOP OF SLAB ELEVATION SHALL BE 92.00' (DATUM 0.00') UNLESS NOTED OTHERWISE.

3. TOP OF FOOTING ELEVATION SHALL BE 2'-0" BELOW DATUM ELEVATION UNLESS NOTED OTHERWISE (). FOOTING ELEVATIONS ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE FIELD ADJUSTED LOWER FOOTING AS REQUIRED BELOW UTILITY LINES AND INSTALL SLEEVES THROUGH CONCRETE AND MASONRY WALLS.

4. SEE ARCHITECTURAL DRAWINGS FOR DERESSED SLAB AREAS.

5. REFER TO ARCHITECTURAL DRAWINGS FOR ALL NON-LOAD BEARING CMU PARTITIONS.

(F1") SLAB ON GRADE WITHIN HATCHED PERIMETER SHALL BE 6" THICK NORMAL WEIGHT CONCRETE ($f'_c=4000$ PSI) REINFORCED WITH 6"x6", W2.9X W2.9 W.W.F. ON 15 MIL VAPOR BARRIER OVER 6" THICK LAYER OF WASHED GRAVEL.



NOTE: PROVIDE JOIST LOAD STRUT F/S303 IF CHANNEL SUPPORT DOES NOT ALIGN WITH TOP CHORD PANEL POINT

SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"



SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"



SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"



6210 Old Dobbin Lane
Suite 150
Columbia, MD 21045
Tel 410.992.9
Fax 410.992.0
Copyright © 2020 Columbia Freestanding All rights reserved.
CST Mo 21-2601 B

6210 Old Dobbin Lane
Suite 150
Columbia, MD 21045
Tel 410.992.9
Fax 410.992.0
Copyright © 2020 Columbia Freestanding All rights reserved.
CST Mo 21-2601 B



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandarker.com



GP #22105

EVENT BUILDINGS FOUNDATION AND FRAMING PLAN

NORTH EAST MIDDLE / HIGH SCHOOL
300 BRISHTOWN ROAD NORTH EAST MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

S603

12/22/2023
BID SET

M

L

K

J

H

G

F

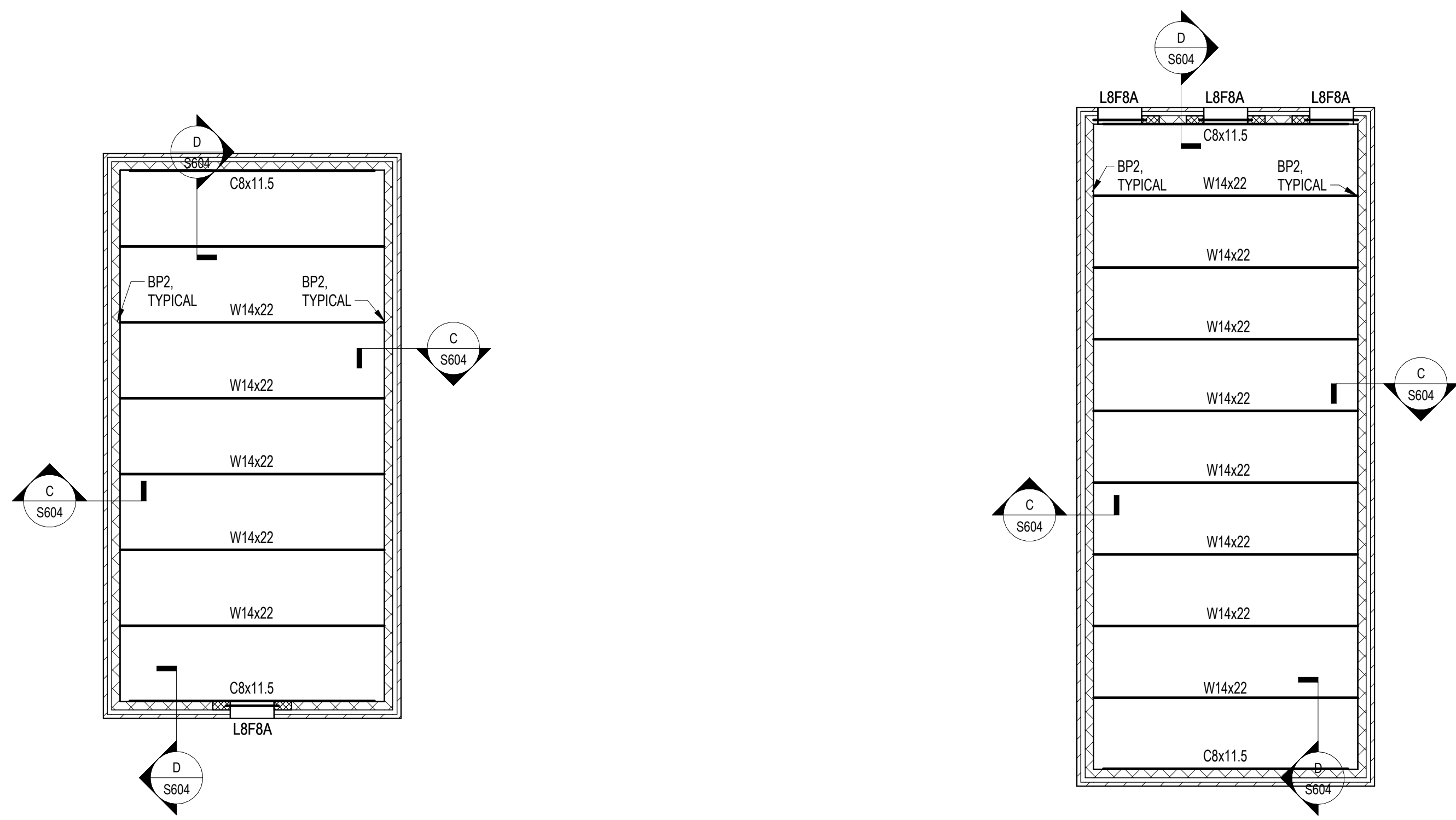
E

D

C

B

A



ROOF FRAMING PLAN- GEOTHERMAL SOUTH

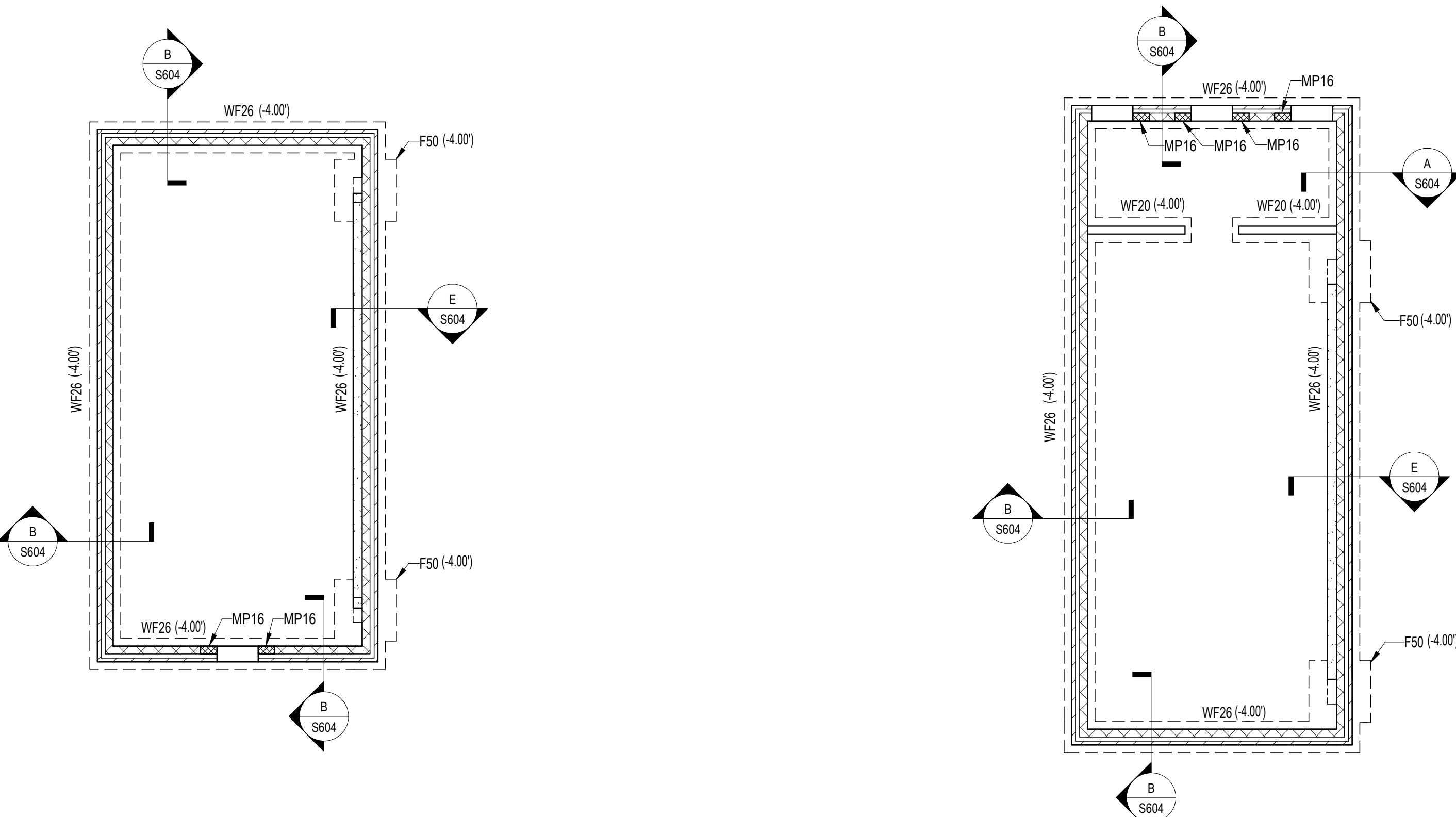
SCALE: 1/8" = 1'-0"

EVENT BUILDINGS- ROOF FRAMING NOTES:

1. ROOF DECK SHALL BE 1 1/2" 20 GAGE, TYPE 'B' GALVANIZED METAL DECK (3 SPAN MINIMUM). ATTACH DECK TO SUPPORTING STRUCTURE WITH 3/4" DIAMETER PUDDLE WELDS ON A 36/4 PATTERN AND NO. 10 SIDELAP SCREWS AT 12" o.c. UNLESS NOTED OTHERWISE.
2. TOP OF STEEL ELEVATION (BOTTOM OF DECK) NOTED ON PLAN THUS (...) IS MEASURED FROM DATUM ELEVATION (0.00').
3. INSTALL ANGLE FRAME AROUND ALL ROOF OPENINGS WITH ONE SIDE LARGER THAN 1'-0". REFER TO TYPICAL ROOF OPENING DETAIL D/S303.

ROOF FRAMING PLAN- GEOTHERMAL NORTH

SCALE: 1/8" = 1'-0"



FOUNDATION AND SLAB ON GRADE PLAN - GEOTHERMAL SOUTH

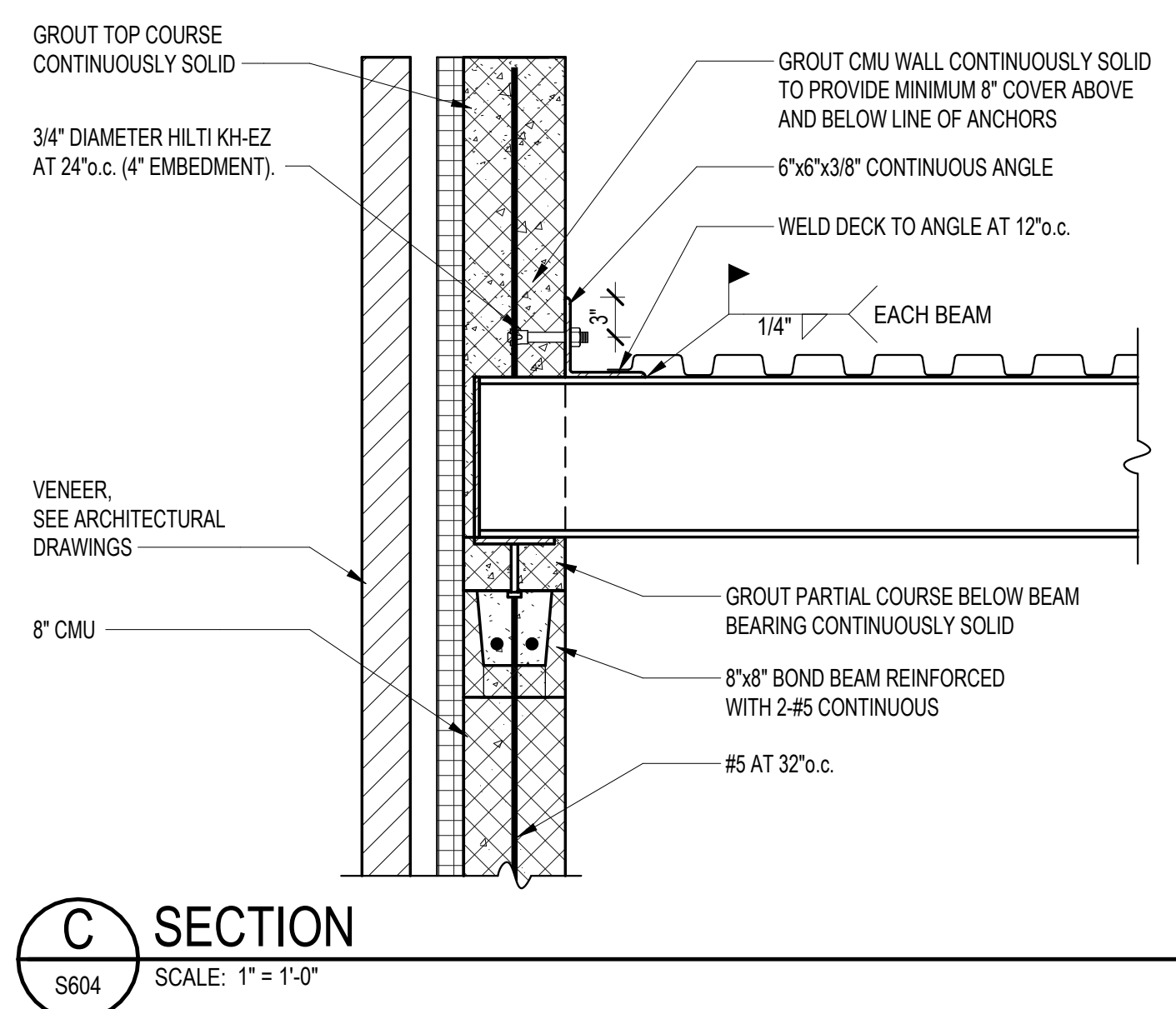
SCALE: 1/8" = 1'-0"

GEOTHERMAL BUILDINGS- FOUNDATION AND SLAB ON GRADE NOTES:

1. SLAB ON GRADE SHALL BE 6" THICK NORMAL WEIGHT CONCRETE (fc=4000 PSI) REINFORCED WITH 6"x6", W2.9X W2.9 W.W.F. ON 15 MIL VAPOR BARRIER OVER 6" THICK LAYER OF WASHED GRAVEL.
2. TOP OF SLAB ELEVATION SHALL BE 108.00' (DATUM 0.00') UNLESS NOTED OTHERWISE.
3. TOP OF FOOTING ELEVATION SHALL BE 2'-0" BELOW DATUM ELEVATION UNLESS NOTED OTHERWISE THUS (...) FOOTING ELEVATIONS ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE FIELD ADJUSTED. LOWER FOOTING AS REQUIRED BELOW UTILITY LINES AND INSTALL SLEEVES THROUGH CONCRETE AND MASONRY WALLS.
4. SEE ARCHITECTURAL DRAWINGS FOR DEPRESSED SLAB AREAS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR ALL NON-LOAD BEARING CMU PARTITIONS.
6. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF HOUSKEEPING PADS

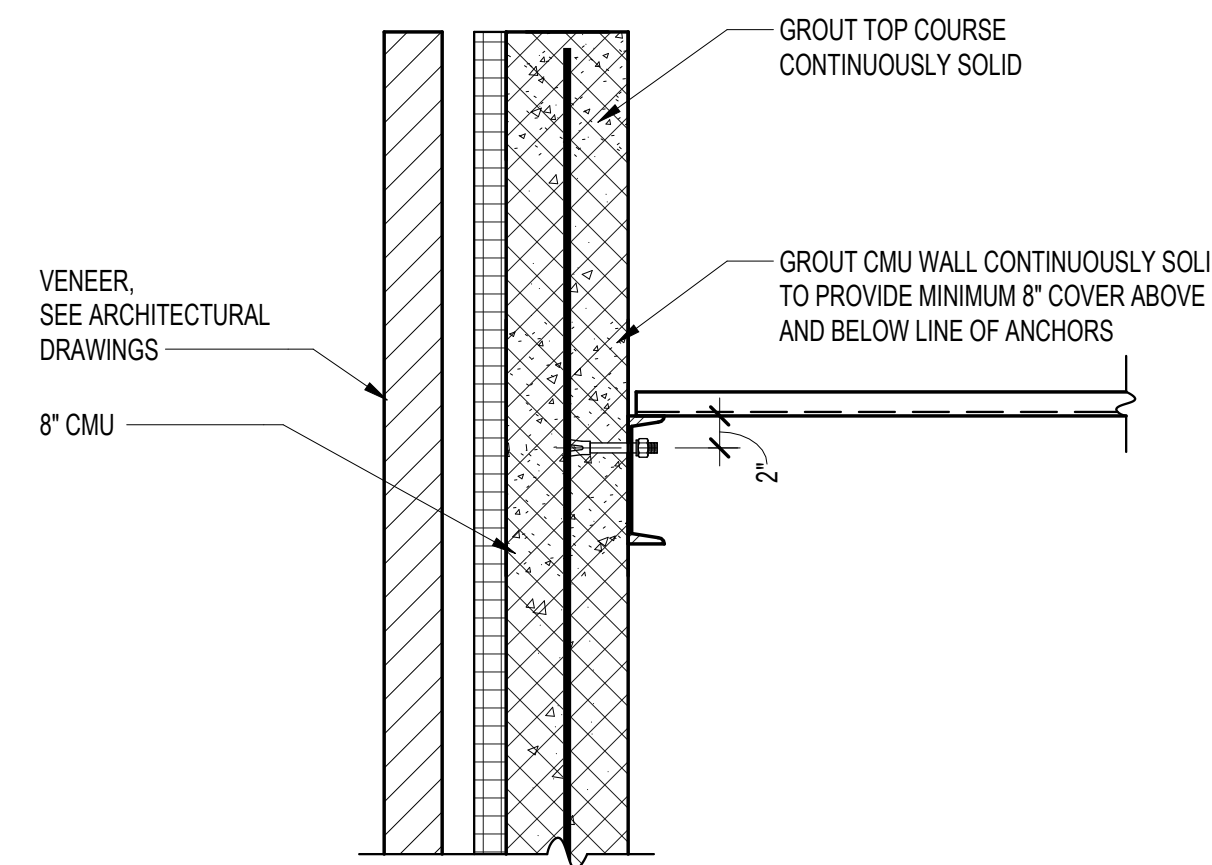
FOUNDATION AND SLAB ON GRADE PLAN - GEOTHERMAL NORTH

SCALE: 1/8" = 1'-0"



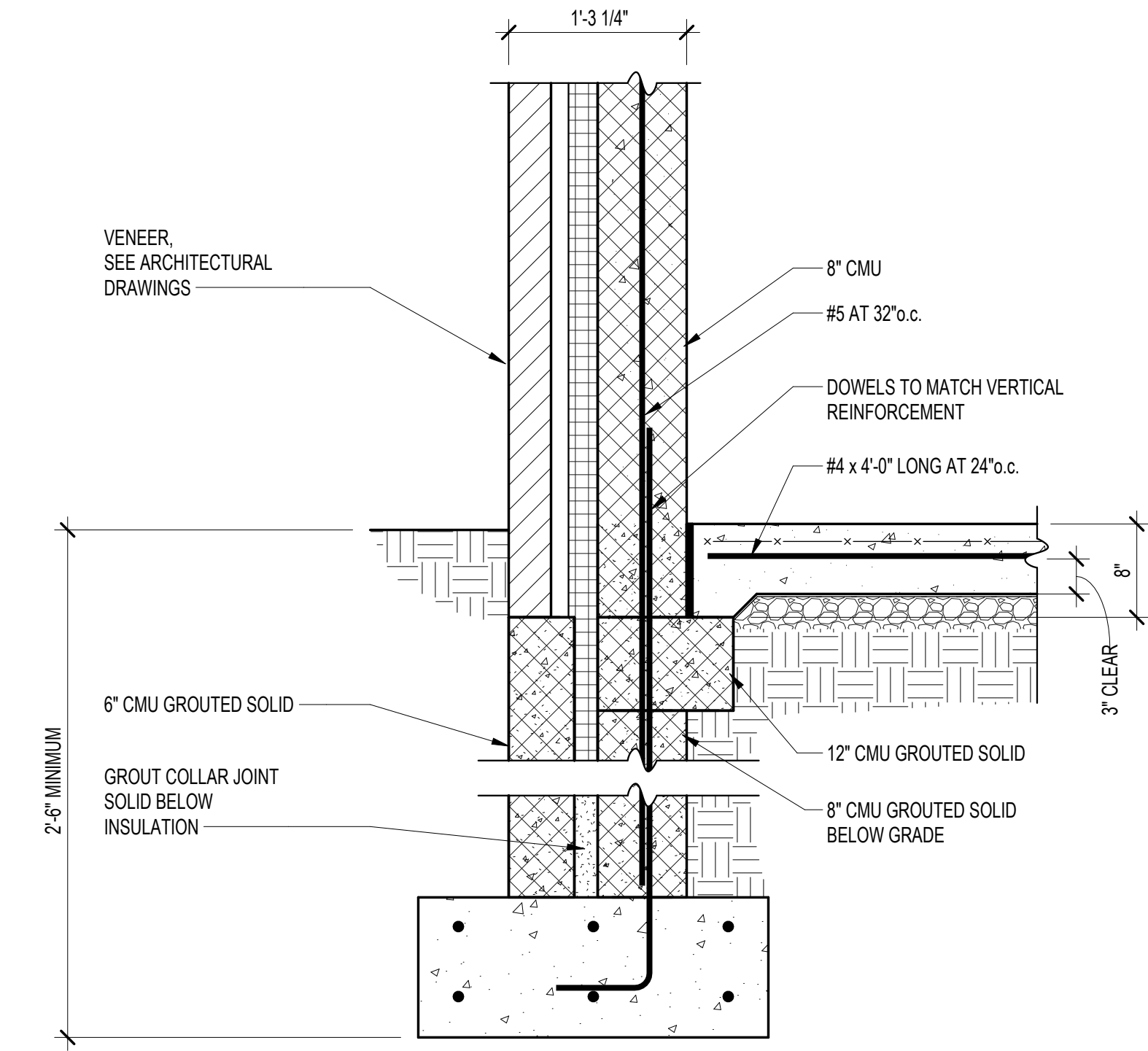
C SECTION

SCALE: 1" = 1'-0"



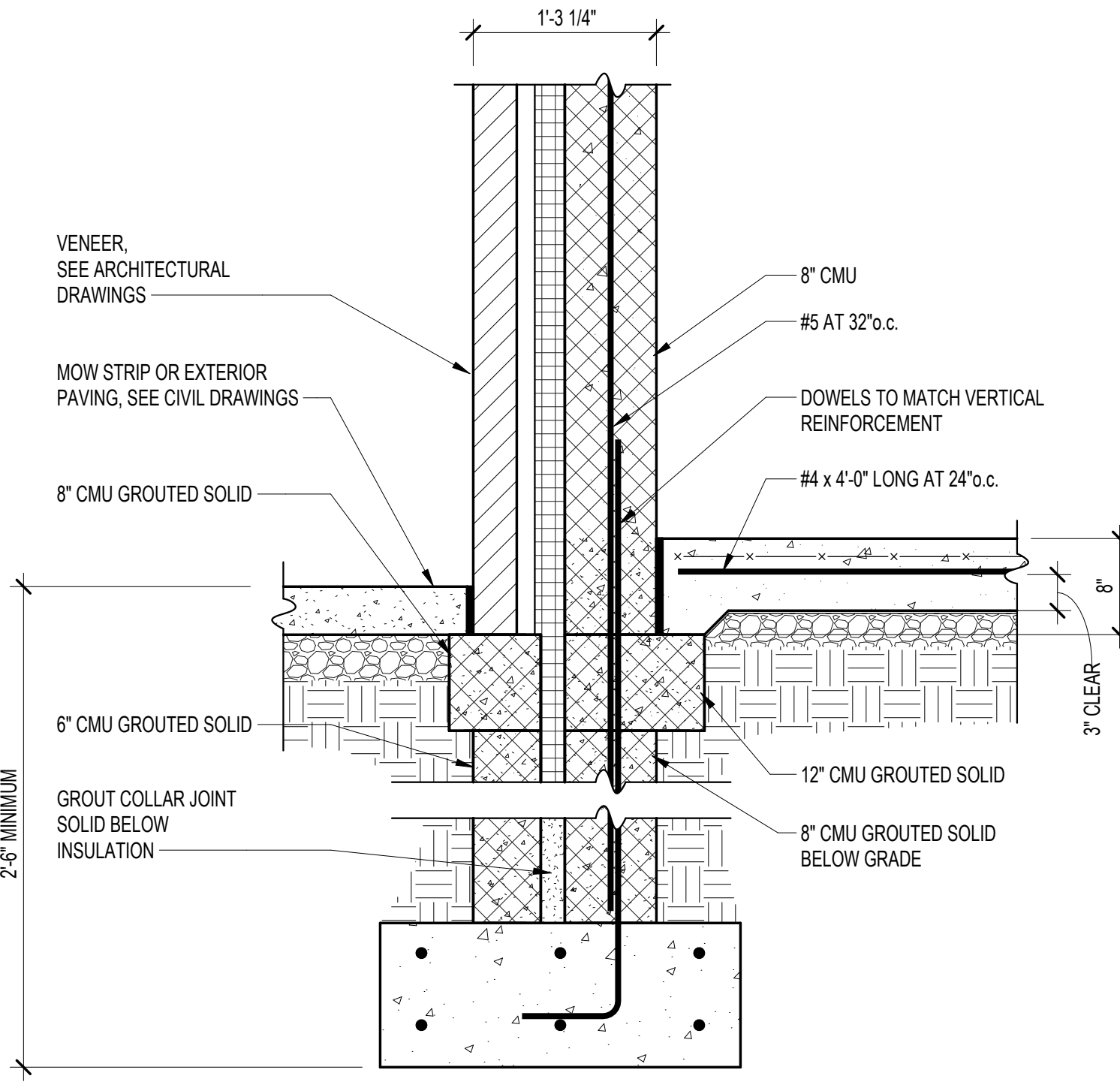
D SECTION

SCALE: 1" = 1'-0"



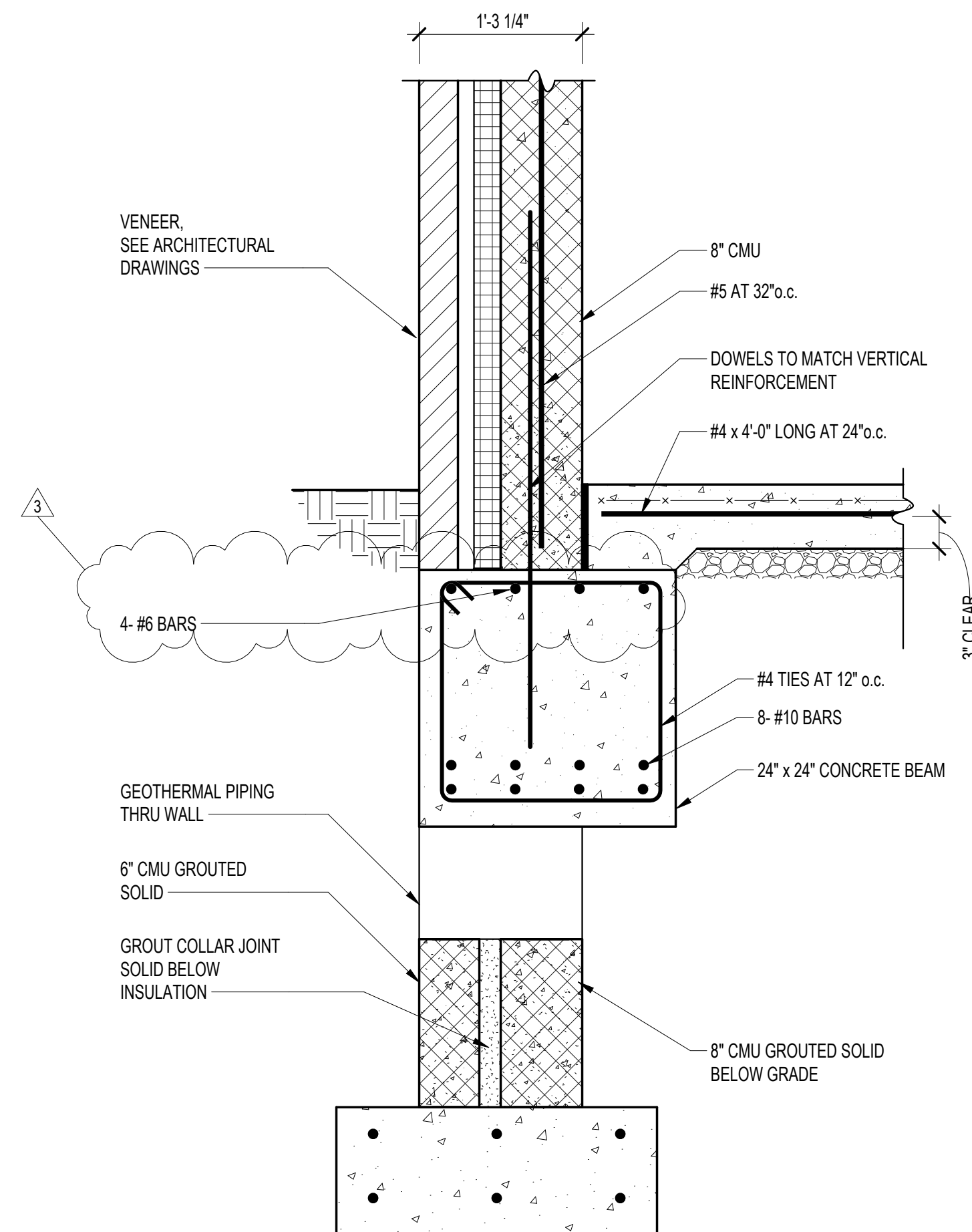
A SECTION

SCALE: 1" = 1'-0"



B SECTION

SCALE: 1" = 1'-0"



E SECTION

SCALE: 1" = 1'-0"

M

L

K

J

H

G

F

E

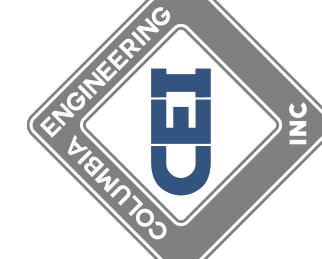
D

C

B

A

Columbia Engineering Inc.
Structural Engineers
620 Old Dobbin Lane
Columbia, MD 21045
Tel: 410.862.89
Fax: 410.862.867
Copyright © 2023 Columbia Engineering, Inc. All rights reserved.
This drawing is the property of Columbia Engineering, Inc. and shall not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Columbia Engineering, Inc.



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

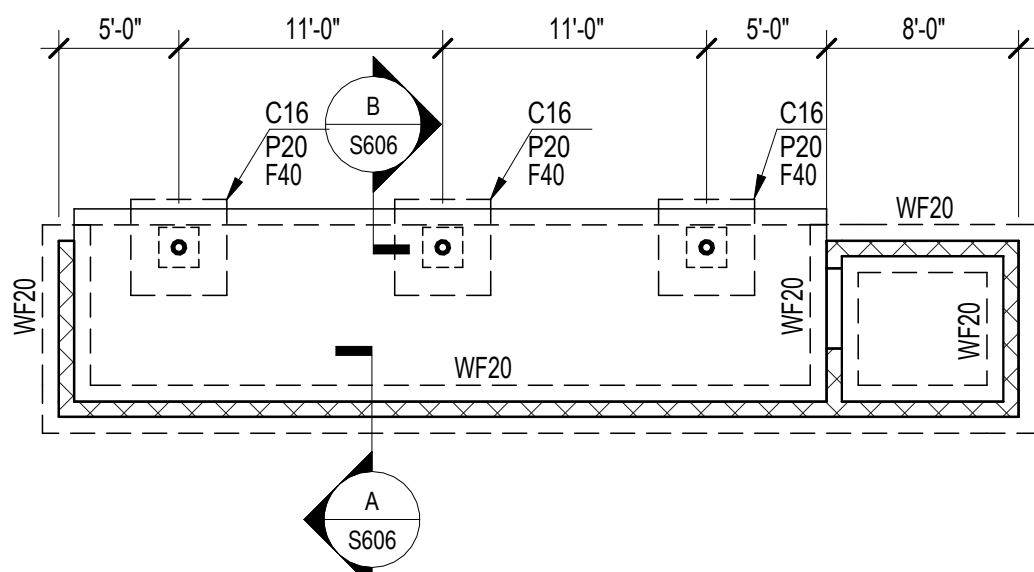


GP #22105

GEOTHERMAL BUILDINGS FOUNDATION AND FRAMING
PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

S604
12/22/2023
BID SET

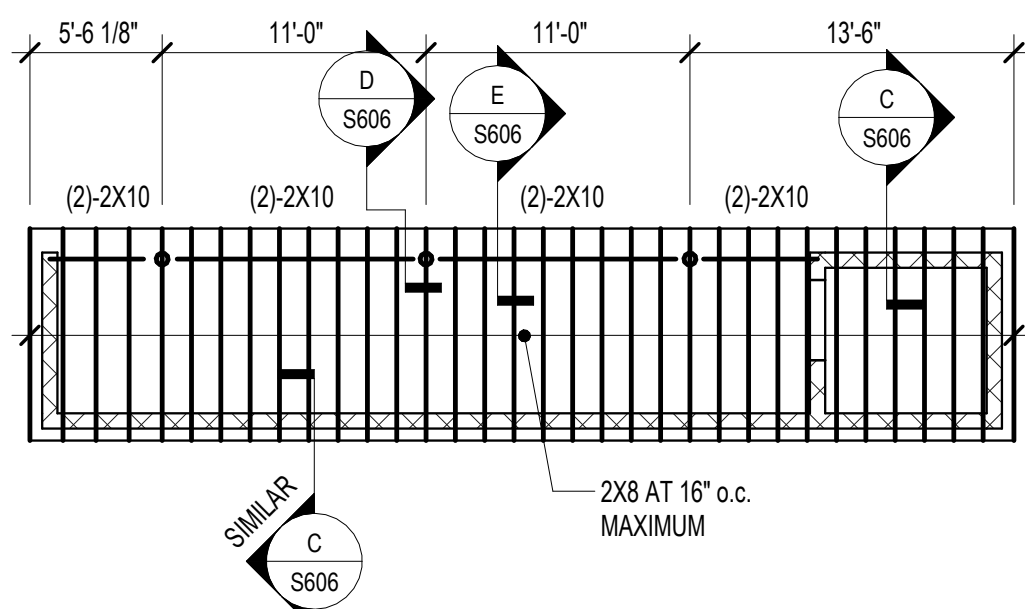


FOUNDATION AND SLAB ON GRADE PLAN - DUGOUTS

SCALE: 1/8" = 1'-0"

DUGOUT-FOUNDATION AND SLAB ON GRADE NOTES:

1. SLAB ON GRADE SHALL BE 4" THICK NORMAL WEIGHT AIR ENTRAINED CONCRETE (fc=5000 PSI) REINFORCED WITH 6"x6", W2.1X W2.1 W.W.F. ON 15 MIL VAPOR BARRIER OVER 6" THICK LAYER OF WASHED GRAVEL.
2. TOP OF SLAB ELEVATION SHALL BE (DATUM 0.00) UNLESS NOTED OTHERWISE. REFER TO CIVIL DRAWINGS FOR TOP OF SLAB ELEVATION.
3. TOP OF FOOTING ELEVATION SHALL BE -2'-0" BELOW DATUM ELEVATION UNLESS NOTED OTHERWISE THUS (-). FOOTING ELEVATIONS ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE FIELD ADJUSTED. LOWER FOOTING AS REQUIRED BELOW UTILITY LINES AND INSTALL SLEEVES THROUGH CONCRETE AND MASONRY WALLS.

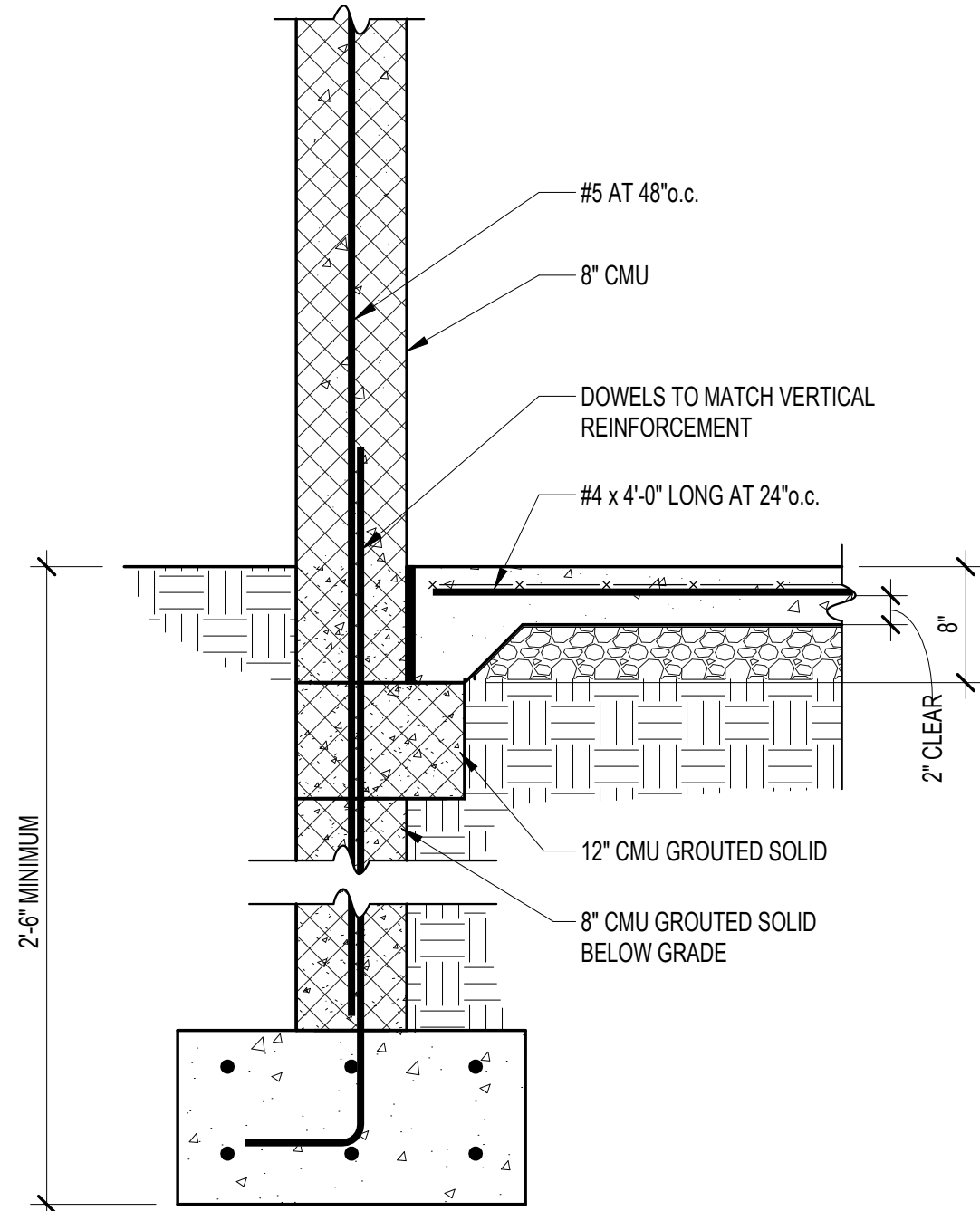


ROOF FRAMING PLAN - DUGOUTS

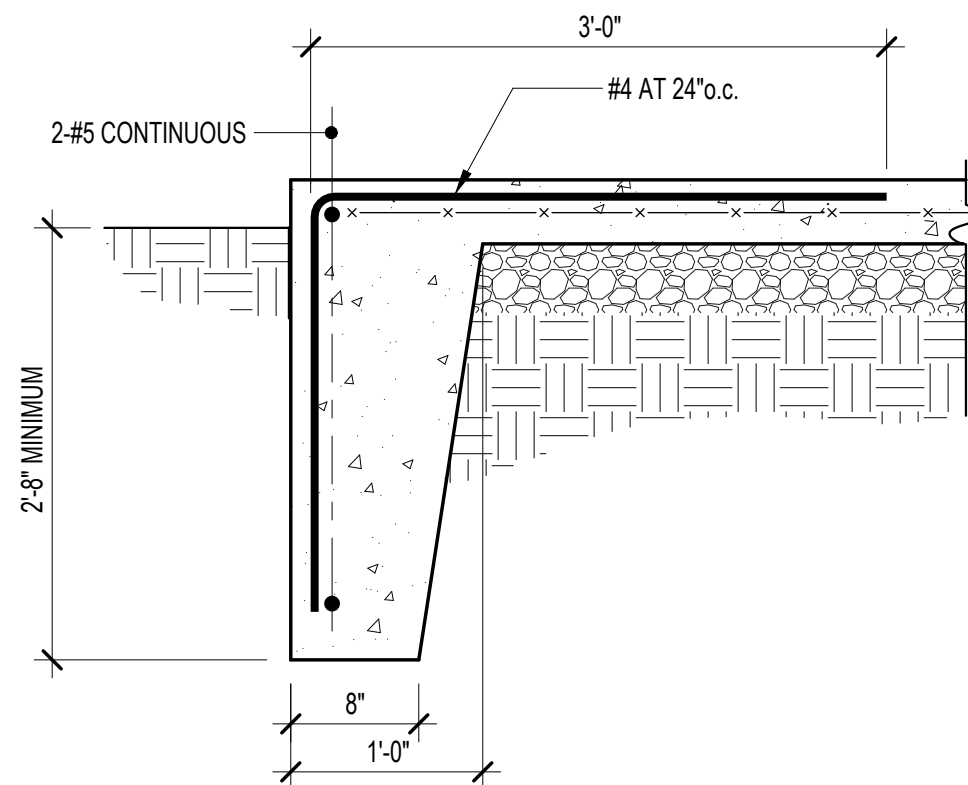
SCALE: 1/8" = 1'-0"

DUGOUT-ROOF FRAMING NOTES:

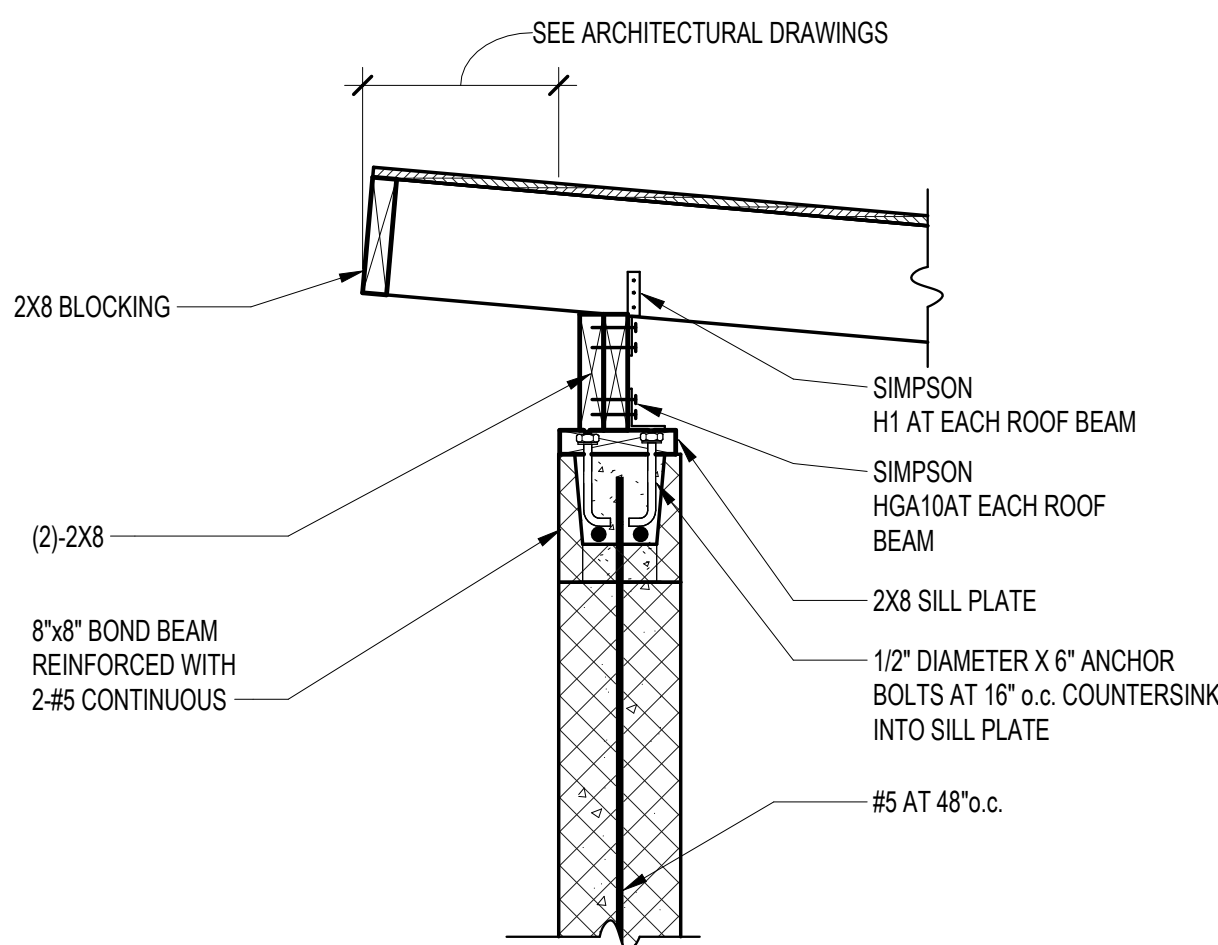
1. ROOF SHEATHING SHALL BE 5/8" APA RATED STRUCTURAL 1 EXTERIOR GRADE PLYWOOD. ATTACH TO SUPPORTING STRUCTURE WITH 6d COMMON NAILS, 6" o.c. AT EDGES AND 12" o.c. AT INTERMEDIATE SUPPORTS
2. STRUCTURAL BEAMS SHALL BE SPRUCE PINE FIR No. 1 / No. 2. ALL FABRICATION, ERECTION, OTHER PROCEDURES, AND MINIMUM UNIT STRESSES SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (LATEST LOCAL APPROVED EDITION).



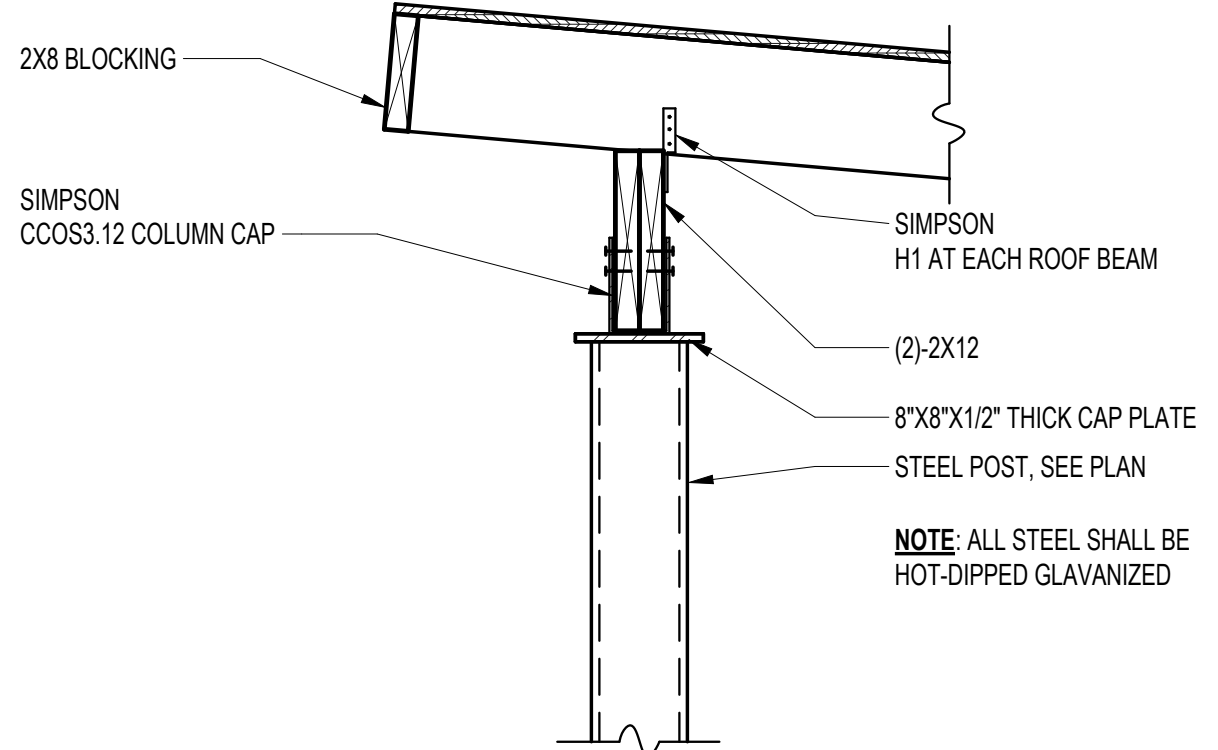
A SECTION
SCALE: 1" = 1'-0"



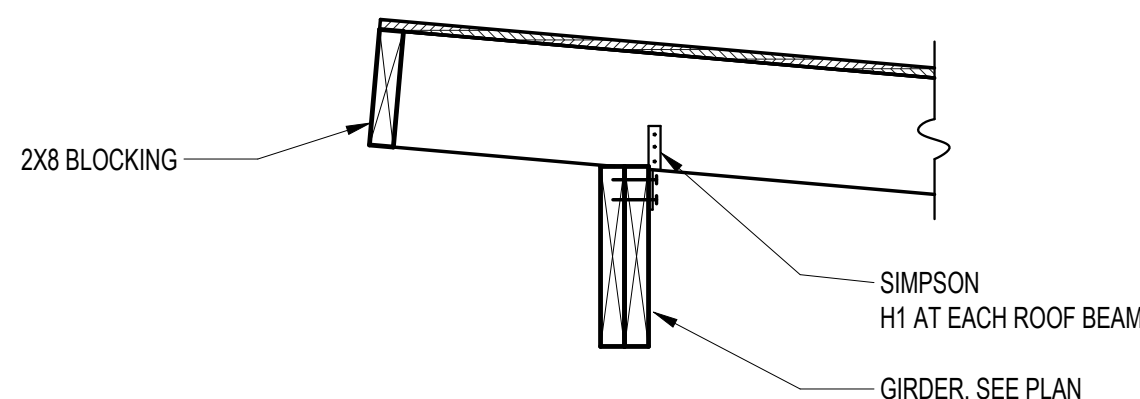
B SECTION
SCALE: 1" = 1'-0"



C SECTION
SCALE: 1" = 1'-0"

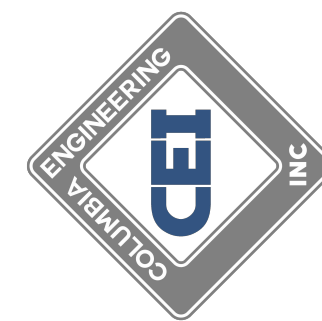


D SECTION
SCALE: 1" = 1'-0"



E SECTION
SCALE: 1" = 1'-0"

Columbia Engineering Inc.
Structural Engineers
8210 Old Dobbin Lane
Columbia, MD 21045
Tel: 410.952.89
Fax: 410.952.897
Copyright © 2024 Columbia Engineering, Inc. All rights reserved.
This drawing was prepared by me, and I am a duly Licensed Professional Engineer in the State of Maryland.
Professional Seal No. 101746, Expiration Date 06/30/2025



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



GP #22105

DUGOUT FOUNDATION AND SLAB ON GRADE AND ROOF
FRAMING PLANS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03/25/2024	ADDENDUM 3

S606
03/22/2024
BID SET

GENERAL NOTES: (MECHANICAL)

GENERAL NOTES AND CONDITIONS:

1. COORDINATE ALL WORK BETWEEN ALL DISCIPLINES.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS, AND REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
3. THE INTENT OF THESE DRAWINGS IS FOR THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIAL, FINISHES, EQUIPMENT, INSTALLATION, AND SERVICES NECESSARY FOR AND INCIDENTAL WITH THE WORK, TO PROVIDE THE OWNER WITH A COMPLETE PROJECT INCLUSIVE OF ALL SYSTEMS.
4. PRIOR TO INITIATING ANY PORTION OF THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE ALL PORTIONS OF THE CONTRACT DOCUMENTS RELATING TO THAT PORTION OF THE WORK AND AFFECTING ADJOINING PORTIONS. IF DISCREPANCIES EXIST, THEY SHALL BE REPORTED TO THE CONSTRUCTION MANAGER FOR CLARIFICATION AND/OR RESOLUTION BEFORE COMMENCING SUCH WORK.
5. BY SUBMITTING A BID PROPOSAL THE CONTRACTOR CERTIFIES THAT THEY HAVE VISITED THE SITE AND UNDERSTAND THE COMPLETE SCOPE OF WORK, WHICH IS INCLUDED IN THE PROPOSAL.
6. DEFINITIONS: "PROVIDE" MEANS "FURNISH AND INSTALL". "VERIFY" MEANS "VERIFY IN THE FIELD AND COORDINATE DIMENSIONS AND DISCREPANCIES".
7. THESE NOTES AND OTHER NOTES ON THE DRAWINGS ARE DIRECTIONS FOR THE CONTRACTOR'S PERFORMANCE, UNLESS NOTED OTHERWISE (U.N.O.). FOR EXAMPLE, THE VERB "INSTALL" MEANS "CONTRACTOR SHALL INSTALL", "RELOCATE" MEANS "CONTRACTOR SHALL RELOCATE", ETC.
8. UNLESS NOTED OTHERWISE, NUMBERED DIMENSIONS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER SCALED DRAWINGS. DETAIL DRAWINGS TAKE PRECEDENCE OVER GENERAL DRAWINGS. IF CONFLICTS EXIST ON THE DRAWINGS, THEN THE MORE STRINGENT REQUIREMENT SHALL APPLY. FINAL INTERPRETATION SHALL BE MADE BY THE ENGINEER.
9. SAMPLES AND SHOP DRAWINGS MUST BE SUBMITTED BY THE CONTRACTOR TO THE CONSTRUCTION MANAGER FOR REVIEW AND PROCESSING BEFORE THE PURCHASE OR FABRICATION OF ANY MATERIALS.
10. DURING THE WORK, ANY CONDITION DISCOVERED THAT CAUSES CONFLICT WITH THE INTENDED DESIGN MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
11. CONTRACTOR SHALL STAGE WORK IN SUCH A WAY AT TO ENSURE SAFE EMERGENCY EGRESS AT ALL TIMES.
12. EXCEPT FOR PREFINISHED SURFACES, ALL ITEMS DISTURBED OR DAMAGED BY WORK SHALL BE REFINISHED TO MATCH SURROUNDING AREA OR FINISHED AS INDICATED.
13. ALL PENETRATIONS IN WALLS AND CEILING SURFACES SHALL BE PATCHED AND FIRE STOPPED.
14. ANY ALTERATION TO THE STRUCTURE (I.E. CORE DRILLING CONCRETE, ETC.) SHALL BE COORDINATED WITH THE GENERAL TRADES CONTRACTOR.
15. UNLESS OTHERWISE INDICATED, ALL PIPING, CONDUIT, DUCTWORK, AND SIMILAR SERVICES SHALL BE CONCEALED.
16. GENERAL NOTES, THOSE FOUND ON THIS SHEET, APPLY TO ALL DRAWINGS RELATED TO THIS PROJECT.
17. DRAWING NOTES SPECIFICALLY REFER TO ITEMS NOTED WITH NUMBER OR LETTER DESIGNATIONS ON THE RESPECTIVE DRAWING WHERE THE DESIGNATIONS ARE SHOWN.
18. ALL INSULATED EXTERIOR PIPING SYSTEM SHALL BE PROVIDED WITH ALUMINUM JACKETING.
19. THE GEOTHERMAL CONTRACTOR SHALL HAVE TEN (10) YEARS EXPERIENCE IN SIMILAR SIZE PROJECT, DRILLING TECHNIQUES AND BE SPECIALIZED IN AND CERTIFIED FOR GEOTHERMAL INSTALLATION.
20. ALL KITCHEN HOOD/RANGE HOOD EXHAUST DUCTWORK SHALL BE STAINLESS STEEL WITH WELDED JOINTS AND 2 HOUR FIRE WRAP.
21. ALL DISHWASHER EXHAUST DUCTWORK SHALL BE STAINLESS STEEL WITH WELDED JOINTS.
22. ALL DRYER VENT DUCTWORK SHALL BE ALUMINUM OR STAINLESS STEEL WITH SMOOTH INTERIOR (I.E. NO SCREWS ETC).
23. PROVIDE MANUAL VOLUME FOR EACH AIR DEVICE (SUPPLY, RETURN, RELIEF, EXHAUST) WHICH IS INDICATED TO HAVE A SPECIFIC AIRFLOW (CFM).
24. PROVIDE INSULATED STAND-OFFS FOR ALL MANUAL VOLUME DAMPERS INSTALLED IN INSULATED DUCT SYSTEMS.
25. PROVIDE LIQUID LEVEL OVERFLOW SENSORS IN ALL UNIT CONDENSATE DRAIN PANS. INTERLOCK TO DEENERGIZE UNIT AND ALARM THROUGH THE EMS.
26. ALL TRANSFER AIR DUCTS SHALL BE SINGLE WALL SOUND LINED (NO INNER GALVANIZED LINER). ALL OTHER SOUND LINED DUCTS EXCEPT FOR DIFFUSER PLENUM BOXES SHALL BE DOUBLE WALL TYPE WITH PERFORATED GALVANIZED INNER LINER.
27. ALL EXPOSED DUCTWORK SHALL BE PAINT GRADE TYPE WITH SELF SEALING JOINTS (I.E. NOT FLANGED) UNLESS NOTED OTHERWISE.
28. USE RADIUS ELBOW WHEREVER POSSIBLE. USE 90° MITERED ELBOWS WHERE RADIUS ELBOWS CAN'T BE USED.
29. COORDINATE DUCTWORK AND DIFFUSER LOCATIONS WITH ALL CEILING DEVICES.
30. ALL ROOF MOUNTED EXHAUST FANS AND INTAKE VENTS SHALL BE PROVIDED WITH MOTOR OPERATED DAMPERS (MOD'S-ATC) EXCEPT FOR KITCHEN HOOD/RANGE HOOD EXHAUST FANS.
31. PROVIDE DOUBLE WALL INSULATED BLANK OFF PANELS BEHIND UNUSED PORTION OF LOUVERS.
32. ALL EXPOSED CABINETS (CABINET UNIT HEATERS, CONVECTORS ETC), BRICK VENTS, LOUVERS ETC SHALL BE PROVIDED WITH A CUSTOM COLOR AS SELECTED BY THE ARCHITECT.
33. PROVIDE FLANGE/ESCUTCHEON AROUND EXPOSED DUCTS PENETRATING WALLS.
34. WHERE DUCT RUNNOUTS ARE EXPOSED TO VIEW, UTILIZE RIGID DUCTWORK IN LEU OF FLEXIBLE TYPE.
35. ALL ROOF CURBS FOR FANS, VENTS AND UNITS SHALL BE A MINIMUM OF 18" ABOVE FINISHED ROOF AND TOP OF CURB SHALL BE LEVEL.
36. LOCATE ALL ROOF MOUNTED EQUIPMENT WHICH REQUIRES SERVICING A MINIMUM OF 10 FEET FROM THE EDGE OF THE ROOF UNLESS THERE IS MIN 42" HIGH PARAPET.
37. COORDINATE LOCATION OF ALL INTAKE VENTS AND WALL LOUVERS TO BE A MINIMUM OF 15 FEET FROM PLUMBING, VENTS, EXHAUST VENTS, EXHAUST FANS ETC.
38. ALL WALL MOUNTED SENSORS SHALL BE PROVIDED WITH PROTECTIVE METAL GUARDS OR CAGES.
39. PROVIDE INSULATION STAND OFFS FOR VOLUME DAMPRS LOCATED IN EXTERNALLY INSULATED DUCTWORK. PROVIDE LAGGING AND STEM EXTENSIONS FOR DEVICES LOCATED IN INSULATED PIPING SYSTEMS.
40. ALL HEAT RECOVERY WHEELS SHALL UTILIZE A MOLECULAR SIEVE DESICCANT AND BE PROVIDED WITH VARIABLE SPEED DRIVES FOR MODULATING CONTROL.
41. DUCT DETECTORS SHALL BE FURNISHED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ATC CONTRACTOR SHALL HARD WIRE INTERLOCK TO THE AHU AND THE FIRE ALARM CONTRACTOR SHALL INTERLOCK WITH THE FIRE ALARM.
42. ALL OPEN END DUCTS SHALL BE PROVIDED WITH ½" X ½" MESH BIRD SCREEN.
43. THE CONTRACTOR IS RESPONSIBLE FOR ALL REFRIGERANT ROUTING, SIZING, ACCESSORIES AND INSTALLATION IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
44. COORDINATE ALL DUCTWORK ROUTING REQUIREMENTS, LOCATIONS, SIZES, ETC WITH PRE ENGINEERED FRAMING SYSTEM, AND JOIST MANUFACTURER PRIOR TO FABRICATION OF THE STRUCTURAL SYSTEM.
45. FOR STRUCTURAL MEMBERS NEAR FUNCTIONAL LOUVERS, NOTCH PLENUM BOXES AROUND STRUCTURE TO MAXIMIZE CONTINUOUS OPEN AIR OF PLENUM BOXES CONNECTED TO LOUVERS.
46. WHERE CONFLICTS EXIST IN PIPE SIZES/DUCT SIZES AND OR REQUIREMENTS THE BASIS OF THE BID SHALL BE BASED ON THE LARGER SIZE OR MORE STRINGENT REQUIREMENT.
47. RESTORE, CLEAN, PAINT ALL MATERIALS TO LIKE NEW CONDITIONS PRIOR TO FINAL FIELD REPORT.
48. ALL HYDRONIC VALVES LOCATED IN INSULATED PIPING SYSTEMS SHALL BE PROVIDED WITH REMOVABLE/REUSABLE INSULATION COVERS.

GENERAL NOTES: (MECHANICAL)

GENERAL CONSTRUCTION NOTES:

1. LEAVE SPACE CLEAN ON COMPLETION, INCLUDING THE CLEANING OF GLASS, DOORS, FRAMES, FLOORS, GRILLES, LIGHT LENSES, ETC.
2. REFER TO STRUCTURAL DRAWINGS FOR TYPICAL PENETRATION/OPENING/INFILL DETAILS.
3. IT IS THE INTENT OF THESE DRAWINGS FOR ALL DISCIPLINES AND SPECIFICATIONS TO PRODUCE A COMPLETE PROJECT. IN ALL CASES THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED, PRICED, ESTIMATED, AND CONSTRUCTED IN THEIR ENTIRETY. THE DRAWINGS ARE COMPLEMENTARY TO ONE ANOTHER AND THE SPECIFICATIONS; ANYTHING SHOWN OR IMPLIED ON ANY ONE DRAWING MUST BE PROVIDED, INSTALLED AND CONNECTED AS THOUGH IT WAS SHOWN ON ALL DRAWINGS AND INCLUDED IN THE ORIGINAL PRICING. NO REQUEST FOR ADDITIONAL COST OR CHANGE ORDER WILL BE ACCEPTED BY THE OWNER FROM ANY CONTRACTOR, SUPPLIER, OR INSTALLER THAT RESULTS FROM A FAILURE TO THOROUGHLY REVIEW ALL DRAWINGS AND SPECIFICATIONS, COORDINATE WITH OTHER TRADES, OR THOROUGHLY INSPECT THE SITE TO DETERMINE ALL EXISTING CONDITIONS.
4. IF AN ASSUMED OR ACTUAL CONFLICT IS DISCOVERED IN THE CONTRACT DOCUMENTS, THE MORE EXPENSIVE OR HIGHER QUALITY OPTION (AS DETERMINED BY THE ARCHITECT/ENGINEER) SHALL BE ASSUMED TO APPLY UNLESS DIRECTED OTHERWISE BY THE ARCHITECT/ENGINEER.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE, FAMILIARIZE THEMSELVES WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND AS ARE NECESSARY FOR CONSTRUCTION, AND CORRELATE THEIR OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT IS ASSUMED THAT THE CONTRACTOR HAS OBTAINED, BEFORE AWARD OF THE CONTRACT, CLARIFICATION OF ALL QUESTIONS AS TO THE INTENT OF THE CONTRACT DOCUMENTS AND OF ASSUMED OR ACTUAL CONFLICT BETWEEN TWO OR MORE ITEMS IN CONTRACT DOCUMENTS. SHOULD THE CONTRACTOR FAIL TO OBTAIN SUCH CLARIFICATION, THE ARCHITECT/ENGINEER SHALL DIRECT WORK TO PROCEED BY THE METHOD INDICATED, SPECIFIED OR REQUIRED BY CONTRACT DOCUMENTS WHICH WILL PRODUCE THE BEST RESULTS, AS JUDGED BY THE ARCHITECT/ENGINEER. SUCH DIRECTION BY THE ARCHITECT/ENGINEER SHALL NOT ENTITLE THE CONTRACTOR TO ANY CLAIM FOR EXTRA COST.
6. IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD CONDITION.

HVAC SYSTEM SUMMARY

HEATING	
10°F OUTSIDE AIR TEMPERATURE. 70° INDOOR AIR TEMPERATURE.	
900,000 BTU – BUILDING HEAT LOSS	
3,477,600 BTU – VENTILATION LOAD (WITH HEAT RECOVERY)	
4,377,600 BTU – TOTAL HEATING LOAD	
4,377,600 BTU – EARTH HX CAPACITY	
COOLING	
95°F DB/78°F WB OUTDOOR AIR TEMPERATURE	
75°F DB/50% RH INDOOR AIR TEMPERATURE	
6,540,000 BTU – BUILDING HEAT GAIN	
4,860,000 BTU – VENTILATION LOAD (WITH HEAT RECOVERY)	
11,400,000 BTU – BLOCK COOLING LOAD	
950 TONS – BLOCK COOLING LOAD	
11,400,000 BTU – TOTAL COOLING LOAD	
11,400,000 BTU – EARTH HX CAPACITY	

MECHANICAL LEGEND					
SYMBOL			SYMBOL		
SYMBOL	ABBREV	DEFINITION	SYMBOL	ABBREV	DEFINITION
	SA	SUPPLY AIR DUCT UP, DOWN		AD	ACCESS DOOR
	RA	RETURN AIR DUCT UP, DOWN		AFF	ABOVE FINISHED FLOOR
	EA	EXHAUST AIR DUCT UP, DOWN		AFPF	AIRFOIL PLENUM FAN
	OA	OUTSIDE AIR DUCT UP, DOWN		AHU	AIR HANDLING UNIT
		RECT. TO ROUND TRANSITION		AMS	AIR MONITORING STATION
		FLEXIBLE CONNECTION (DUCTWORK)		AP	ACCESS PANEL
		FLEXIBLE DUCT		APD	AIR PRESSURE DROP
	VD	MANUAL VOLUME DAMPER		ATC	AUTOMATIC TEMPERATURE CONTROL
	FD	FIRE DAMPER		BBR	BASEBOARD RADIATION
	MOD	MOTOR OPERATED DAMPER		BHP	BOILER HORSEPOWER
	SD	SMOKE DAMPER		BHP	BRAKE HORSEPOWER
	CD	COMBINATION FIRE/SMOKE DAMPER		BTU	BRITISH THERMAL UNIT
	SL	ACOUSTICAL DUCT LINING		C	CLOSED
		DUCT TRANSITION		CAP	CAPACITY
		CHANGE IN ELEVATION RISE (R); DROP (D)		CAV	CONSTANT AIR VOLUME
	AMS	AIR MONITORING STATION		CFM	CUBIC FEET PER MINUTE
		SOUND ATTENUATOR		CC/COND	CONDENSATE DRAINLINE
	DD	DUCT SMOKE DETECTOR		CONV	CONVECTOR
		ELBOW W/TURNING VANES		CUH	CABINET UNIT HEATER
		RADIUS ELBOW		DB	DRY BULB
		RETURN AIR REGISTER W/BOOT		DB	DECIBEL
	T'STAT	THERMOSTAT		DIA	DIAMETER
		GATE VALVE		DIFF	DIFFUSER
		GLOBE VALVE		DWG	DRAWING
		BALL VALVE		EAT	ENTERING AIR TEMPERATURE
		BALANCING VALVE		EF	EXHAUST FAN
		MULTI-PURPOSE VALVE		EFF	EFFICIENCY
		CHECK VALVE		ELECT. CHAR.	ELECTRICAL CHARACTERISTICS
		BUTTERFLY VALVE		EMS	ENERGY MANAGEMENT SYSTEM
		3-WAY MODULATING VALVE (ATC)		ERV	ENERGY RECOVERY VENTILATOR
		2-WAY MODULATING VALVE (ATC)		ESP	EXTERNAL STATIC PRESSURE
	PRV	PRESSURE REDUCING VALVE		EX	EXISTING
		NEEDLE VALVE		EXH	EXHAUST
		PRESSURE RELIEF OR SAFETY VALVE		ETR	EXISTING TO REMAIN
	HED	HOSE END DRAIN VALVE		E/W	EACH WAY
		STRAINER W/HOSE END DRAIN VALVE & CAP		EWT	ENTERING WATER TEMPERATURE
		COMBINATION BALANCING/SHUT-OFF VALVE		F	FAN
		AUTOMATIC AIR VENT		°F	DEGREES FAHRENHEIT
		MANUAL AIR VENT		FCU	FAN COIL UNIT
		FLOW METER FITTING		FBM	FEET PER MINUTE
		UNION		FT H ₂ O	FEET WATER GAUGE
		FLANGE		FTZ	FINNED TUBE RADIATION
		CONCENTRIC REDUCER		FZ	FREEZESTAT
		ECCENTRIC REDUCER		G	NATURAL GAS
		FLEXIBLE CONNECTION (PIPING)		GPM	GALLONS PER MINUTE
		THERMOMETER		HT	HEIGHT
		PRESSURE GAUGE W/NEEDLE VALVE		HPWS	HEAT PUMP WATER SUPPLY
		TEMPERATURE SENSOR		HPWR	HEAT PUMP WATER RETURN
		PIPE ALIGNMENT GUIDE		HW(x)	DOMESTIC HOT WATER (TEMP.)
		PIPE ANCHOR		HWR(x)	DOMESTIC HOT WATER RECIRC. (TEMP.)
		AUTOMATIC FLOW REGULATING VALVE		HWG	HOT WATER GENERATOR
		PIPE-TURN DOWN		HZ	HERTZ
		PIPE-TURN UP		IN H ₂ O	INCHES WATER GAUGE
		PIPE-TURN DOWN (DOUBLE LINE PIPE)		KW	KILOWATT
		PIPE-TURN UP (DOUBLE LINE PIPE)		LAT	LEAVING AIR TEMPERATURE
		PIPE TEE UP		LBS	POUNDS
		PIPE TEE DOWN		LF	LINEAR FOOT
		END CAP		LWT	LEAVING WATER TEMPERATURE
		DIRECTION OF FLOW		MAX	MAXIMUM
		DRAWING NOTE DESIGNATION		MBH	BTU PER HOUR (THOUSAND)
		AIR DEVICE DESIGNATION		MIN	MINIMUM
		EQUIPMENT BOX DESIGNATION		NC	NOISE CRITERIA
	RL	REFRIGERANT LIQUID		N.C.	NORMALLY CLOSED
	RS	REFRIGERANT SUCTION		No.	NUMBER
				N.O.	NORMALLY OPEN
				OAF	OUTSIDE AIR FAN
				O/C	ON CENTER
				OED	OPEN END DUCT
				P	PUMP
				PA	PRIMARY AIR
				PD	PRESSURE DROP
				PSI	POUNDS PER SQUARE INCH
				RAF	RETURN AIR FAN
				REG	REGISTER
				REQ'D	REQUIRED
				RPM	REVOLUTIONS PER MINUTE
				RX	REMOVE EXISTING
				SAF	SUPPLY AIR FAN
				SAN	SANITARY
				SB	STAND-BY
				SENS	SENSIBLE
				SP	SPRINKLER PIPING
				SP	STATIC PRESSURE
				SQ	SQUARE
				STD	STANDARD
				SWT	SUPPLY WATER TEMPERATURE
				TEMP	TEMPERATURE
				TONS	TONS OF REFRIGERATION
				V	VENT
				V	VOLTS
				VEL	VELOCITY
				VSD	VARIABLE SPEED DRIVE
				W/	WITH
				WB	WET BULB
				WG	WATER GAUGE
				WPD	WATER PRESSURE DROP
				ΔT	TEMPERATURE DIFFERENCE
				%	PERCENT
				Φ	ELECTRICAL PHASE

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED

ALBAN ENGINEERING, INC.
11720 Beltsville Drive
Suite 600
Beltsville, MD 20705
Tel: 301.595.1000
WWW.ALBANENGINEERING.COM
P. 2105

PROFESSIONAL CERTIFICATION: HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 4001 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Beltsville, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

GRIMM + PARKER ARCHITECTS

GP #22105

MECHANICAL LEGEND & ABBREVIATION
NORTH EAST MIDDLE HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

M001
12/22/2023
BID SET



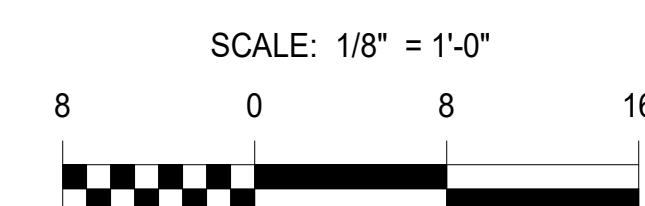
© GRIMM AND PARKER ARCHITECTURE, INC.

1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 1.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.

GP #22105

NORTH EAST MIDDLE / HIGH SCHOOL
300 IRIS TOWN ROAD, NORTH EAST, MD

© GRIMM AND PARKER ARCHITECTURE, INC.



SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 1.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.

DRAWING NOTES:

1. 14"x10" SOUNDLINED TRANSFER AIR DUCT.
2. 16"x14" S/A DUCT UP TRANSITION TO 14"x16" IN VERTICAL. REFER TO DWG M101C FOR CONTINUATION.
3. 16"x14" R/A DUCT UP. REFER TO DWG M101C FOR CONTINUATION.
4. 14"x14" S/A DUCT UP. REFER TO DWG M101C FOR CONTINUATION.
5. 12"x12" R/A DUCT UP. REFER TO DWG M101C FOR CONTINUATION.
6. 50"x14" R/A DUCT UP. REFER TO DWG M101C FOR CONTINUATION.
7. 56"x18" O/A DUCT UP. TRANSITION TO 50"x18" IN VERTICAL. REFER TO DWG M101C FOR CONTINUATION.
8. 14"x14" E/A DUCT UP. REFER TO DWG M101C FOR CONTINUATION.
9. 50"x16" O/A DUCT UP. REFER TO DWG M101C FOR CONTINUATION.
10. 14"x28" AND 14"x22" R/A DUCT UP. TRANSITION TO 14"x50" IN VERTICAL. REFER TO DWG M101C FOR CONTINUATION.
11. 12"x8" SS FUME HOOD E/A DUCT DN TO FUME HOOD FULL SIZE CONNECTION.
12. 12"x8" SS FUME HOOD E/A DUCT UP. REFER TO DWG M101C FOR CONTINUATION.
13. 3/4" DOOR UNDERCUT. (ADD-ALTERNATE)
14. 8"x8" BRICK VENT BASED ON GREENHECK MODEL BVE808. CUSTOM COLOR AS SELECTED BY ARCHITECT. (ADD-ALTERNATE)

ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARRISBURG, PA 17105
WWW.ALBANENGINEERING.COM

THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF ALBAN ENGINEERING, INC. AND SHALL BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO REUSE OR REPRODUCTION OF THIS DRAWING OR ANY PART THEREOF IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF PENNSYLVANIA. LICENSE NO. 48511 EXPIRATION DATE: 06-30-2027

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

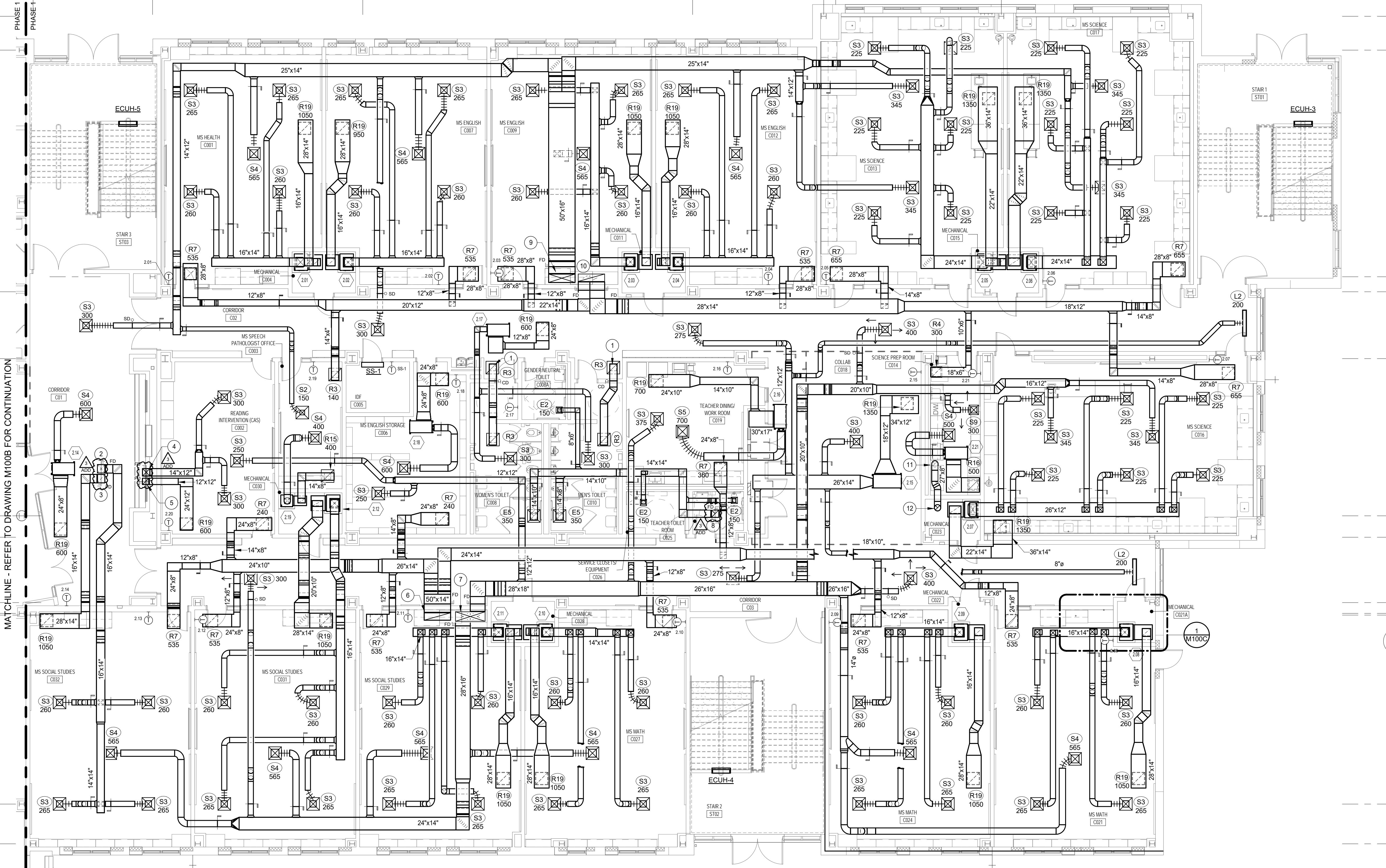
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

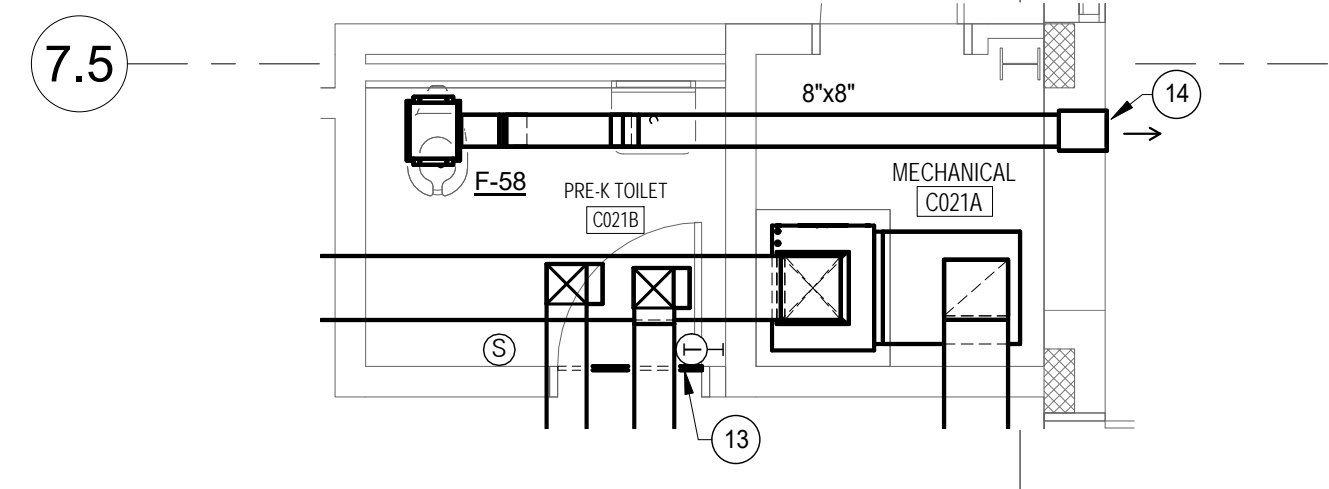
LEVEL 00 AREA C PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

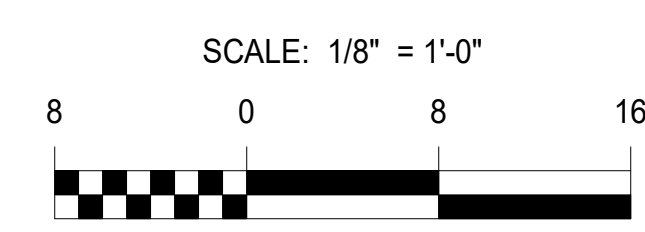
M100C
12/22/2023
BID SET



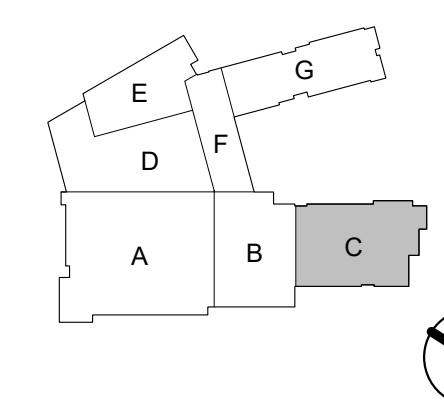
PARTIAL 00 FLOOR PLAN - AREA C
1/8" = 1'-0"



PRE-K TOILET - ADD-ALTERNATE No.3
1/4" = 1'-0"



KEY PLAN

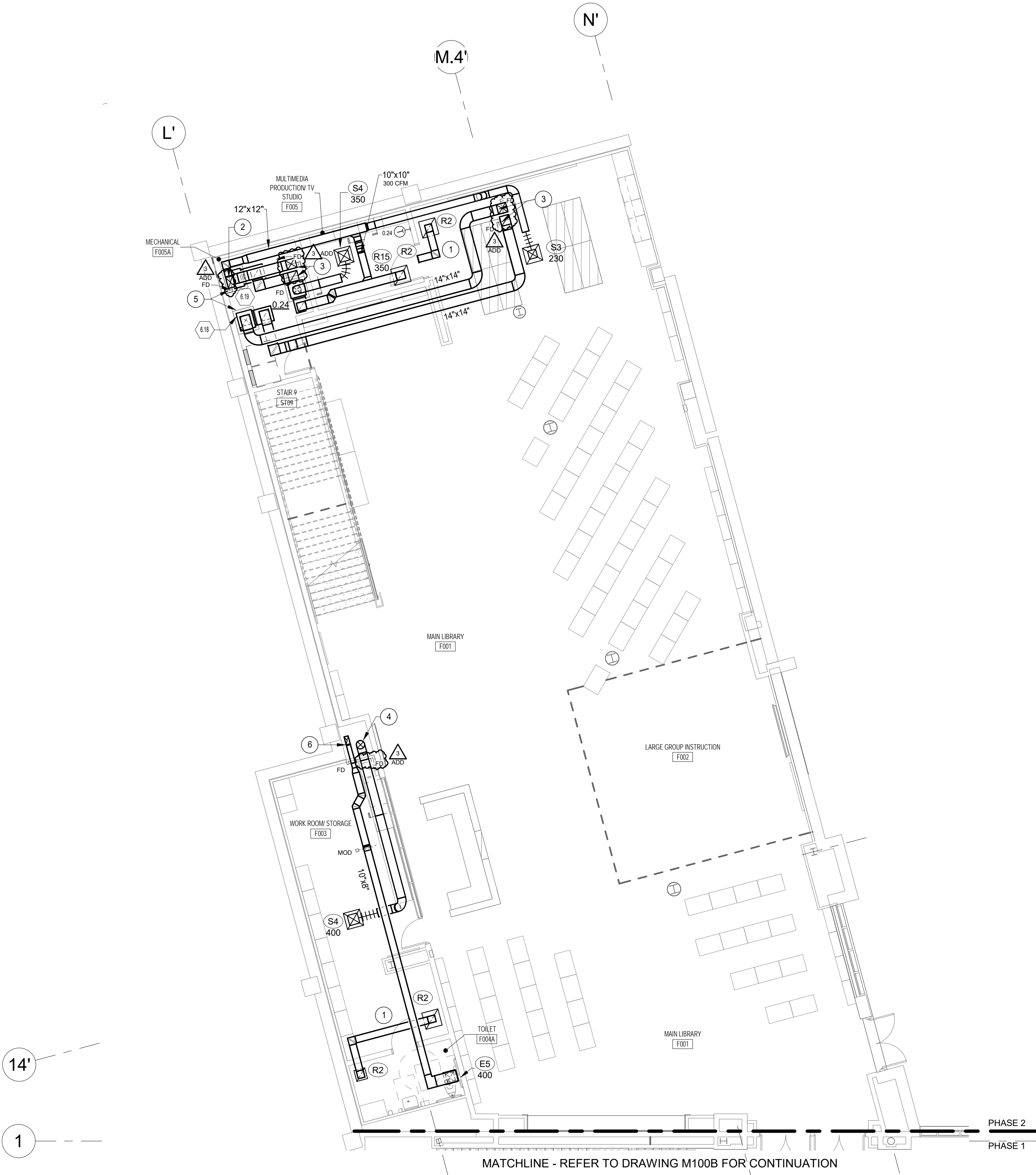


GENERAL NOTES:

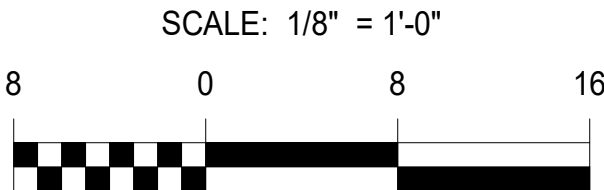
1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 2.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.

DRAWING NOTES:

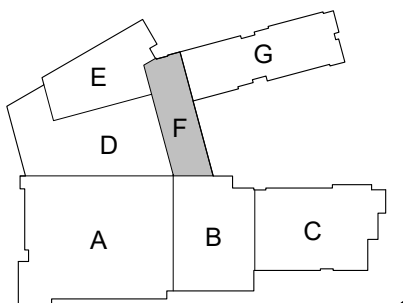
- 1 10"x10" SOUNDLINED TRANSFER AIR DUCT.
2 16"x10" S/A DUCT UP. REFER TO DWG M101F FOR CONTINUATION.
3 14"x14" S/A AND R/A DUCT UP. REFER TO DWG M101F FOR CONTINUATION.
4 12"x8" S/A DUCT UP. REFER TO DWG M101F FOR CONTINUATION.
5 4" HOUSEKEEPING CONCRETE PAD. (TYPICAL)
6 12"x6" E/A DUCT UP. REFER TO DWG M101F FOR CONTINUATION.



PARTIAL 00 FLOOR PLAN - AREA F
1/8" = 1'-0"



KEY PLAN



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A QUALY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 46501 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

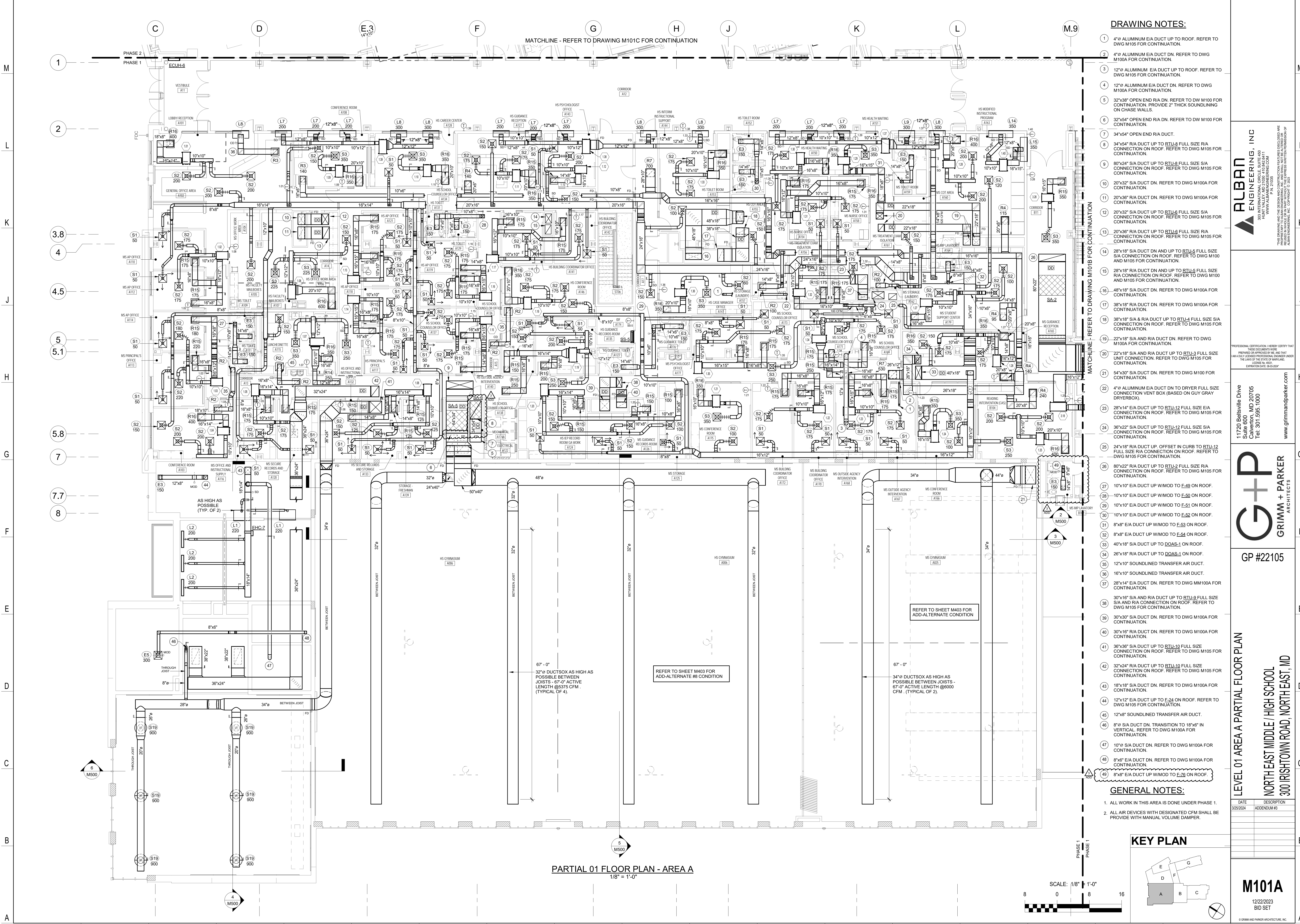


GP #22105

LEVEL 00 AREA F PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

M100F
12/22/2023
BID SET



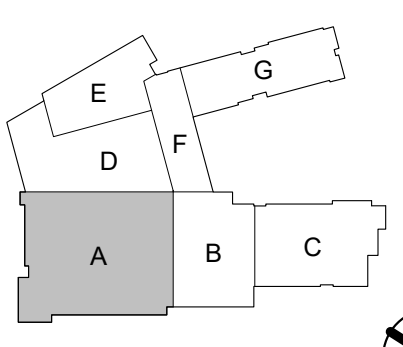
DRAWING NOTES:

- 4" ALUMINUM E/A DUCT UP TO ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 4" ALUMINUM E/A DUCT DN. REFER TO DWG M105 FOR CONTINUATION.
- 12" ALUMINUM E/A DUCT UP TO ROOF. REFER TO DWG M100A FOR CONTINUATION.
- 12" ALUMINUM E/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 32"x38" OPEN END R/A DN. REFER TO DW M100 FOR CONTINUATION. PROVIDE 2" THICK SOUNDING ON CHASE WALLS.
- 32"x54" OPEN END R/A DN. REFER TO DW M100 FOR CONTINUATION.
- 34"x54" OPEN END R/A DUCT.
- 34"x54" R/A DUCT UP TO RTU-8 FULL SIZE R/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 80"x24" S/A DUCT UP TO RTU-8 FULL SIZE S/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 20"x32" S/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 20"x36" R/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 20"x32" S/A DUCT UP TO RTU-8 FULL SIZE S/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 20"x36" R/A DUCT UP TO RTU-8 FULL SIZE R/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 28"x18" S/A DUCT DN AND UP TO RTU-5 FULL SIZE S/A CONNECTION ON ROOF. REFER TO DWG M100 AND M105 FOR CONTINUATION.
- 28"x18" R/A DUCT DN AND UP TO RTU-5 FULL SIZE R/A CONNECTION ON ROOF. REFER TO DWG M100 AND M105 FOR CONTINUATION.
- 48"x18" S/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 38"x18" R/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 38"x18" S/A & R/A DUCT UP TO RTU-4 FULL SIZE S/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 22"x18" S/A & R/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 22"x18" S/A & R/A DUCT UP TO RTU-3 FULL SIZE UNIT CONNECTION. REFER TO DWG M105 FOR CONTINUATION.
- 54"x30" S/A DUCT DN. REFER TO DWG M100 FOR CONTINUATION.
- 4" ALUMINUM E/A DUCT DN TO DRYER FULL SIZE CONNECTION VENT BOX (BASED ON GUY GRAY DRYERBOX).
- 28"x14" E/A DUCT UP TO RTU-12 FULL SIZE E/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 36"x22" S/A DUCT UP TO RTU-12 FULL SIZE S/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 24"x18" R/A DUCT UP. OFFSET IN CURB TO RTU-12 FULL SIZE R/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 80"x22" R/A DUCT UP TO RTU-2 FULL SIZE R/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 10"x10" E/A DUCT UP W/MOD TO E-48 ON ROOF.
- 10"x10" E/A DUCT UP W/MOD TO E-50 ON ROOF.
- 10"x10" E/A DUCT UP W/MOD TO E-51 ON ROOF.
- 10"x10" E/A DUCT UP W/MOD TO E-52 ON ROOF.
- 8"x8" E/A DUCT UP W/MOD TO E-53 ON ROOF.
- 8"x8" E/A DUCT UP W/MOD TO E-54 ON ROOF.
- 40"x18" S/A DUCT UP TO DOAS-1 ON ROOF.
- 26"x18" R/A DUCT UP TO DOAS-1 ON ROOF.
- 12"x10" SOUNDLINED TRANSFER AIR DUCT.
- 16"x10" SOUNDLINED TRANSFER AIR DUCT.
- 28"x14" E/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 30"x16" S/A AND R/A DUCT UP TO RTU-9 FULL SIZE S/A AND R/A CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 30"x30" S/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 30"x16" R/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 36"x36" S/A DUCT UP TO RTU-10 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 32"x24" R/A DUCT UP TO RTU-10 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 18"x18" S/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 12"x12" E/A DUCT UP TO E-24 ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
- 12"x8" SOUNDLINED TRANSFER AIR DUCT.
- 8"x8" S/A DUCT DN. TRANSITION TO 18"x8" IN VERTICAL. REFER TO DWG M100A FOR CONTINUATION.
- 10"x8" S/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.
- 8"x6" E/A DUCT DN. REFER TO DWG M100A FOR CONTINUATION.

GENERAL NOTES:

- ALL WORK IN THIS AREA IS DONE UNDER PHASE 1.
- ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDED WITH MANUAL VOLUME DAMPER.

KEY PLAN



PARTIAL 01 FLOOR PLAN - AREA A
1/8" = 1'-0"

ALBAN
ENGINEERING, INC.
3303 INTERNATIONAL CIRCLE, SUITE 400
FARMERSVILLE, PA 17035
WWW.ALBANENGINEERING.COM

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF PENNSYLVANIA. LICENSE NO. 0001 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

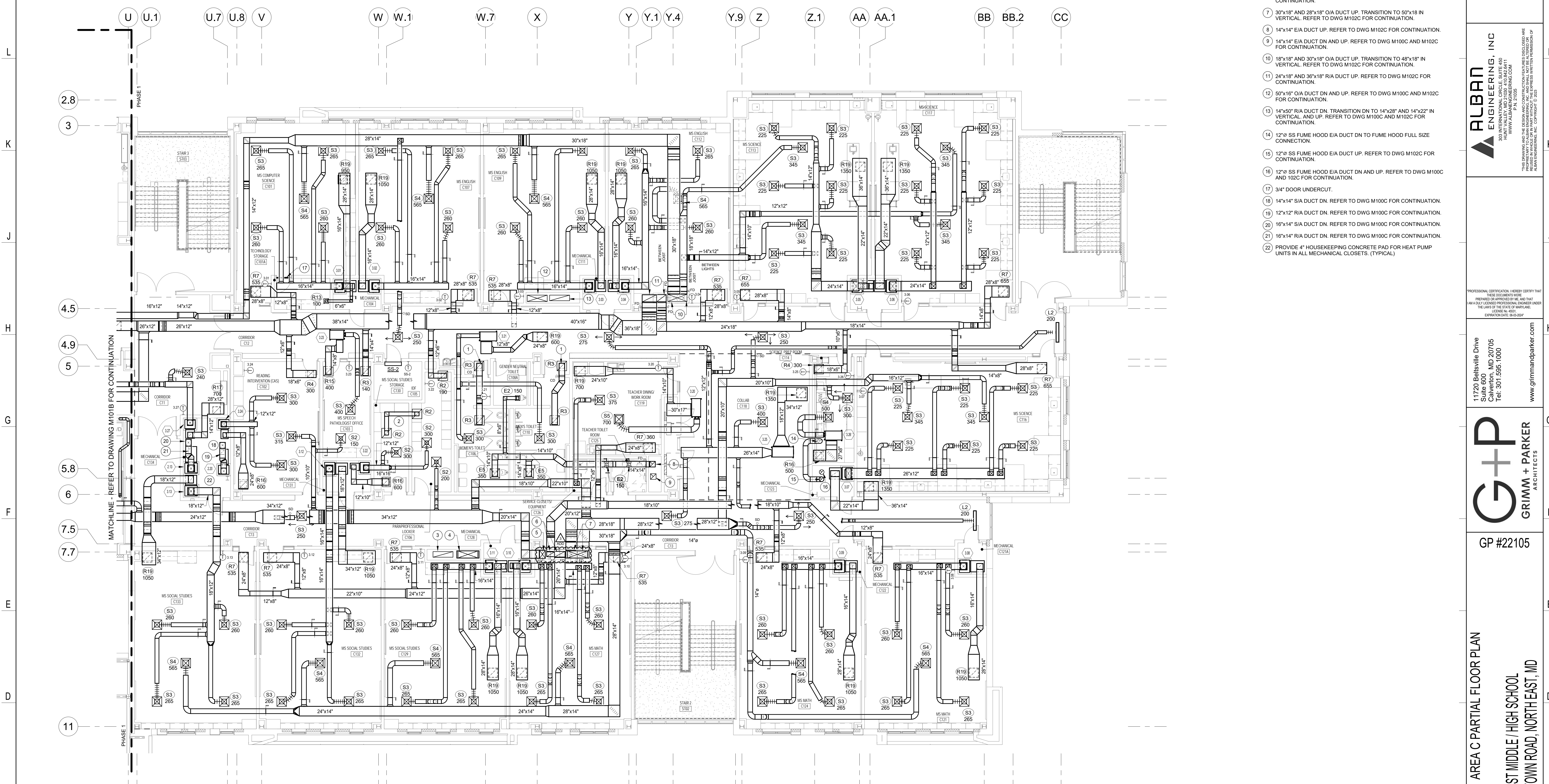
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

LEVEL 01 AREA A PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

M101A
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.



PARTIAL 01 FLOOR PLAN - AREA C
1/8" = 1'-0"

GENERAL NOTES:

- 1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 1.
- 2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.

DRAWING NOTES:

- 1. 14"x10" SOUNDLINE TRANSFER AIR DUCT.
- 2. 10"x10" SOUNDLINE TRANSFER AIR DUCT.
- 3. 50"x14" R/A DUCT DN AND UP. REFER TO DWG M100C AND M102C FOR CONTINUATION.
- 4. 50"x18" O/A DUCT DN. TRANSITION TO 56"x18" IN VERTICAL. 50"x18" O/A DUCT UP. REFER TO DWG M100C AND M102C FOR CONTINUATION.
- 5. 14"x20" O/A DUCT UP. REFER TO DWG M102C FOR CONTINUATION.
- 6. 20"x12" AND 26"x14" R/A DUCTS UP. REFER TO DWG M102C FOR CONTINUATION.
- 7. 30"x18" AND 28"x18" O/A DUCT UP. TRANSITION TO 50"x18" IN VERTICAL. REFER TO DWG M102C FOR CONTINUATION.
- 8. 14"x14" E/A DUCT UP. REFER TO DWG M102C FOR CONTINUATION.
- 9. 14"x14" E/A DUCT DN AND UP. REFER TO DWG M100C AND M102C FOR CONTINUATION.
- 10. 18"x18" AND 30"x18" O/A DUCT UP. TRANSITION TO 48"x18" IN VERTICAL. REFER TO DWG M102C FOR CONTINUATION.
- 11. 24"x18" AND 36"x18" R/A DUCT UP. REFER TO DWG M102C FOR CONTINUATION.
- 12. 50"x16" O/A DUCT DN AND UP. REFER TO DWG M100C AND M102C FOR CONTINUATION.
- 13. 14"x50" R/A DUCT DN. TRANSITION DN TO 14"x28" AND 14"x22" IN VERTICAL AND UP. REFER TO DWG M100C AND M102C FOR CONTINUATION.
- 14. 12" SS FUME HOOD E/A DUCT DN TO FUME HOOD FULL SIZE CONNECTION.
- 15. 12" SS FUME HOOD E/A DUCT UP. REFER TO DWG M102C FOR CONTINUATION.
- 16. 12" SS FUME HOOD E/A DUCT DN AND UP. REFER TO DWG M100C AND M102C FOR CONTINUATION.
- 17. 3/4" DOOR UNDERCUT.
- 18. 14"x14" S/A DUCT DN. REFER TO DWG M100C FOR CONTINUATION.
- 19. 12"x12" R/A DUCT DN. REFER TO DWG M100C FOR CONTINUATION.
- 20. 16"x14" S/A DUCT DN. REFER TO DWG M100C FOR CONTINUATION.
- 21. 16"x14" R/A DUCT DN. REFER TO DWG M100C FOR CONTINUATION.
- 22. PROVIDE 4" HOUSEKEEPING CONCRETE PAD FOR HEAT PUMP UNITS IN ALL MECHANICAL CLOSETS. (TYPICAL)

RUBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
CALVERTON, MD 20705
P.A. 21035
WWW.RUBANENGINEERING.COM

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 4651 EXPIRATION DATE: 06-30-2027

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

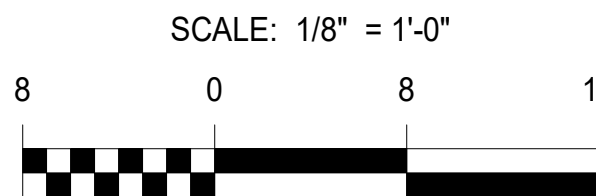
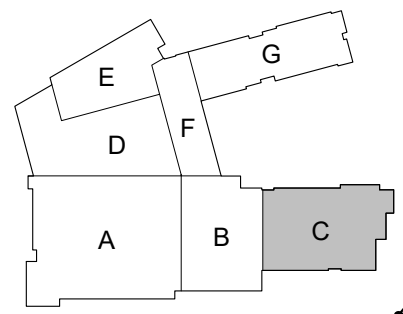
GP #22105

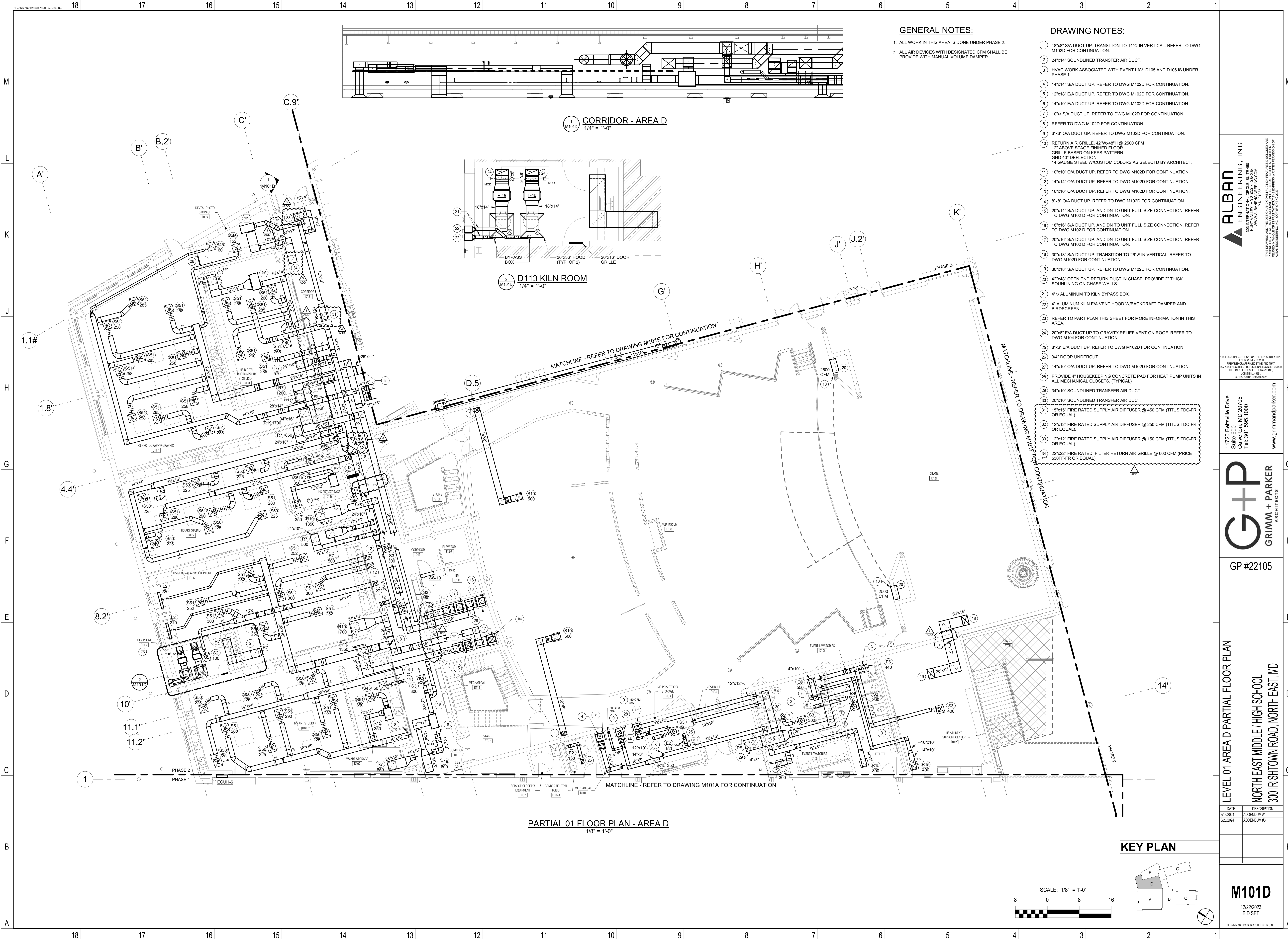
LEVEL 01 AREA C PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

M101C
12/22/2023
BID SET

KEY PLAN





GENERAL NOTES:

1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 2.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDED WITH MANUAL VOLUME DAMPER.

DRAWING NOTES:

- 1 18"x8" S/A DUCT UP. TRANSITION TO 14"x8" IN VERTICAL. REFER TO DWG M102D FOR CONTINUATION.
- 2 24"x14" SOUNDLINE TRANSFER AIR DUCT.
- 3 HVAC WORK ASSOCIATED WITH EVENT LAV. D105 AND D106 IS UNDER PHASE 1.
- 4 14"x14" S/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 5 12"x18" E/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 6 14"x10" E/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 7 10"x8" S/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 8 REFER TO DWG M102D FOR CONTINUATION.
- 9 6"x6" O/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 10 RETURN AIR GRILLE. 42"Wx48"H @ 2500 CFM
12" ABOVE STAGE FINISHED FLOOR
GRILLE BASED ON KES PATTERN
GHD 40" DEFLECTION
14 GAUGE STEEL W/CUSTOM COLORS AS SELECTED BY ARCHITECT.
- 11 10"x10" O/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 12 14"x14" O/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 13 16"x16" O/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 14 8"x8" O/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 15 20"x14" S/A DUCT UP. AND DN TO UNIT FULL SIZE CONNECTION. REFER TO DWG M102 D FOR CONTINUATION.
- 16 18"x16" S/A DUCT UP. AND DN TO UNIT FULL SIZE CONNECTION. REFER TO DWG M102 D FOR CONTINUATION.
- 17 20"x16" S/A DUCT UP. AND DN TO UNIT FULL SIZE CONNECTION. REFER TO DWG M102 D FOR CONTINUATION.
- 18 30"x18" S/A DUCT UP. TRANSITION TO 28"x8" IN VERTICAL. REFER TO DWG M102D FOR CONTINUATION.
- 19 30"x18" S/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 20 42"x48" OPEN END RETURN DUCT IN CHASE. PROVIDE 2" THICK SOUNDLINING ON CHASE WALLS.
- 21 4" ALUMINUM TO KILN BYPASS BOX.
- 22 4" ALUMINUM KILN E/A VENT HOOD W/BACKDRAFT DAMPER AND BIRDSCREEN.
- 23 REFER TO PART PLAN THIS SHEET FOR MORE INFORMATION IN THIS AREA.
- 24 20"x8" E/A DUCT UP TO GRAVITY RELIEF VENT ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 25 8"x6" E/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 26 3/4" DOOR UNDERCUT.
- 27 14"x10" O/A DUCT UP. REFER TO DWG M102D FOR CONTINUATION.
- 28 PROVIDE 4" HOUSEKEEPING CONCRETE PAD FOR HEAT PUMP UNITS IN ALL MECHANICAL CLOSETS. (TYPICAL.)
- 29 34"x10" SOUNDLINE TRANSFER AIR DUCT.
- 30 20"x10" SOUNDLINE TRANSFER AIR DUCT.
- 31 15"x15" FIRE RATED SUPPLY AIR DIFFUSER @ 450 CFM (TITUS TDC-FR OR EQUAL).
- 32 12"x12" FIRE RATED SUPPLY AIR DIFFUSER @ 250 CFM (TITUS TDC-FR OR EQUAL).
- 33 12"x12" FIRE RATED SUPPLY AIR DIFFUSER @ 150 CFM (TITUS TDC-FR OR EQUAL).
- 34 22"x22" FIRE RATED, FILTER RETURN AIR GRILLE @ 600 CFM (PRICE 530FF-FR OR EQUAL).

ALBAN
ENGINEERING, INC.
3303 INTERNATIONAL CIRCLE, SUITE 400
FALLS CHURCH, VA 22044
WWW.ALBANENGINEERING.COM
P.A. 21035

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT
THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME AND THAT
I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 48501
EXPIRATION DATE: 06-30-2027

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimm+parker.com

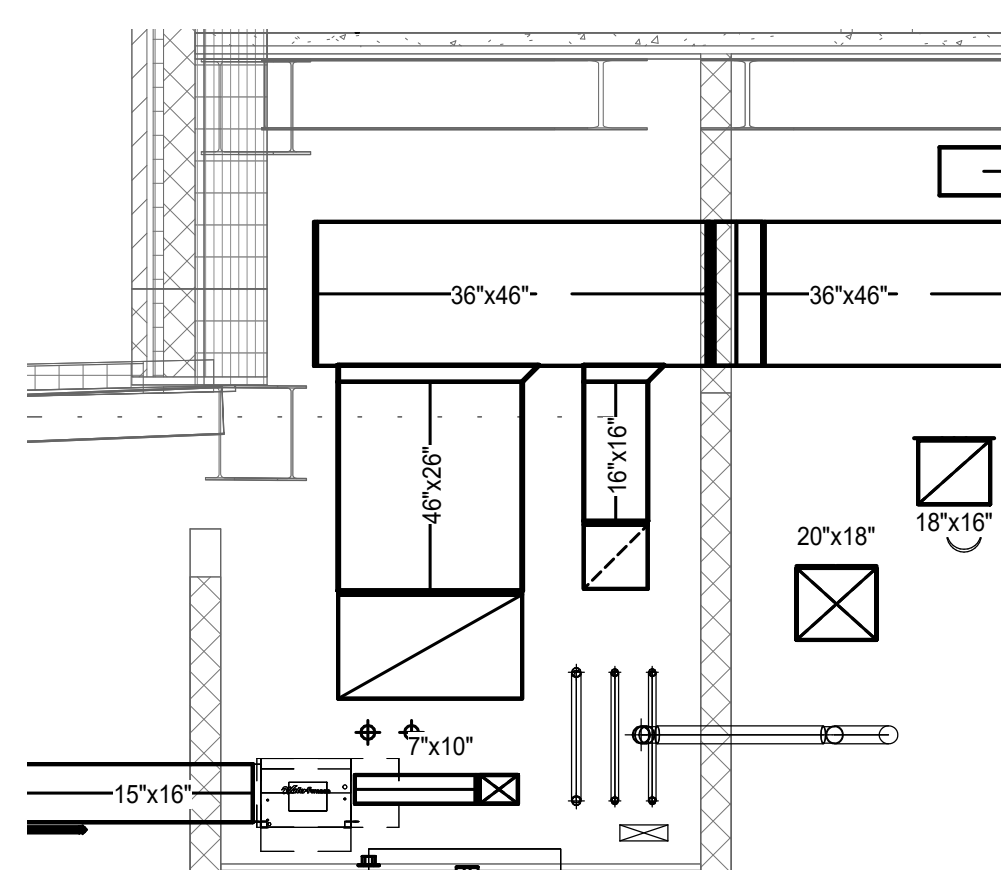
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

LEVEL 01 AREA D PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/13/2024	ADDENDUM #1
3/25/2024	ADDENDUM #3

M101D
12/22/2023
BID SET



2
M101E

CORRIDOR E11 - NORTH/SOUTH ELEVATION VIEW

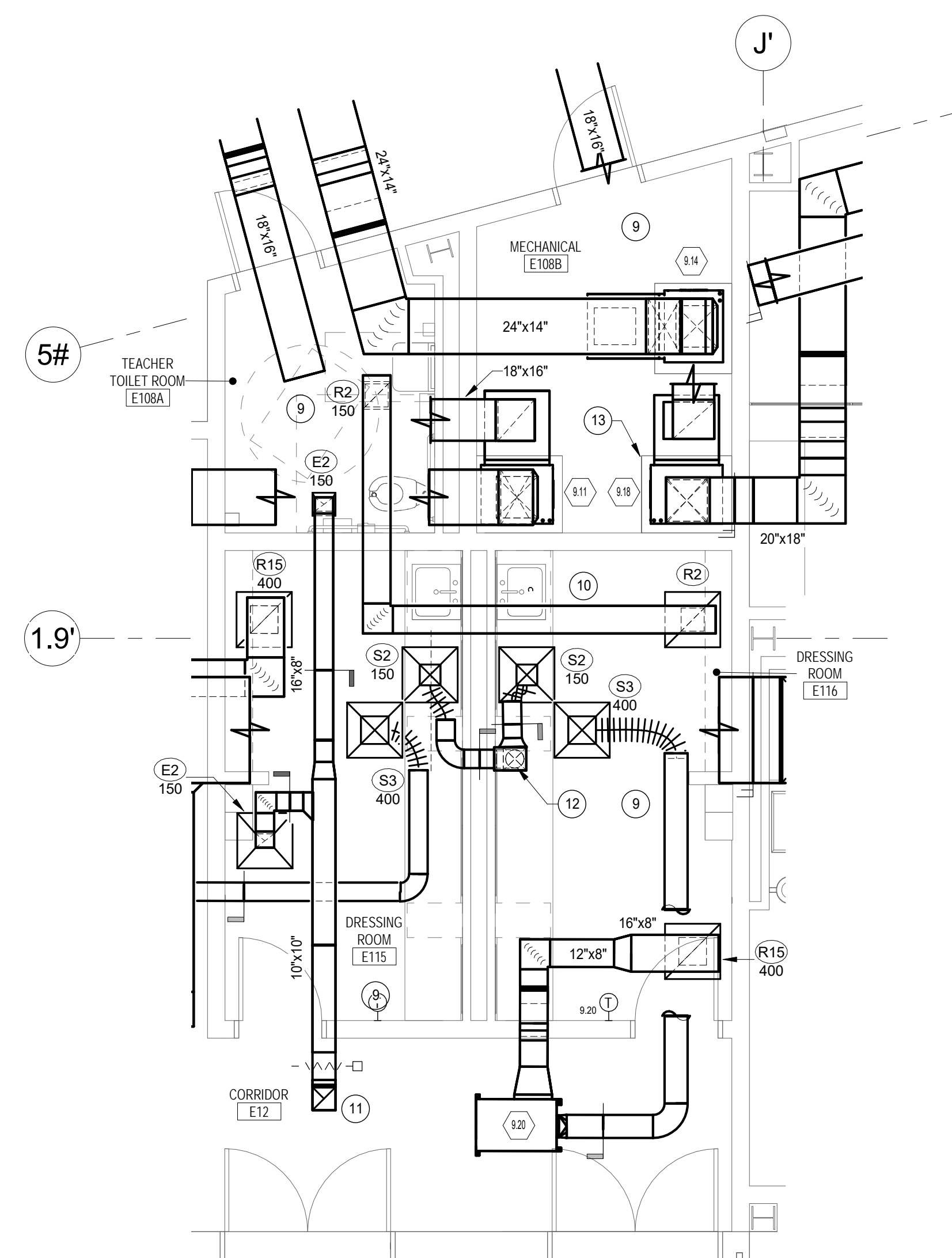
1/4" = 1'-0"



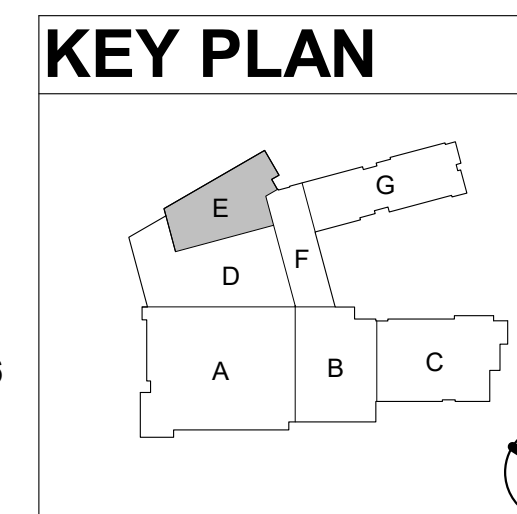
PARTIAL 01 FLOOR PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES:

- ① 12"x12" E/A DUCT TO F-13 IN PENTHOUSE F300.
- ② 8"x6" E/A DUCT. REFER TO DWG M102F FOR CONTINUATION.
- ③ 10"x8" E/A DUCT. REFER TO DWG M102F FOR CONTINUATION.
- ④ 36"x48" R/OA DUCT UP W/FD. TRANSITION TO 36"x38" IN VERTICAL. REFER TO DWG M103F FOR CONTINUATION.
- ⑤ 36"x48" O/A DUCT UP W/FD. REFER TO DWG M103F FOR CONTINUATION.
- ⑥ 10"x10" E/A DUCT UP TO F-20 ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- ⑦ REFER TO PART PLAN THIS SHEET FOR ADDITIONAL WORK IN THIS AREA.
- ⑧ ALL RUN-OUTS ARE 14"x6" TO LINEAR SLOT DIFFUSERS IN THIS AREA.
- ⑨ REFER TO PARTIAL 01 FLOOR PLAN - AREA E THIS SHEET FOR ADDITIONAL WORK IN THIS AREA.
- ⑩ 12"x4" SOUNDLINED TRANSFER AIR DUCT.
- ⑪ 10"x10" E/A DUCT UP TO F-28 ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- ⑫ 8"ø UP. TRANSITION TO 10"x10" IN VERTICAL TO 46"x38" O/A DUCT.
- ⑬ PROVIDE 4" HOUSEKEEPING CONCRETE PAD FOR HEAT PUMP UNITS IN ALL MECHANICAL CLOSETS (TYPICAL).
- ⑭ 28"x10" E/A DUCT UP. TRANSITION TO 10"x10" IN VERTICAL TO F-74. REFER TO DWG M103F FOR CONTINUATION.



 LEVEL 01 - MECH. CLOSET AND LOCKER ROOMS
 $1/4" = 1'-0"$

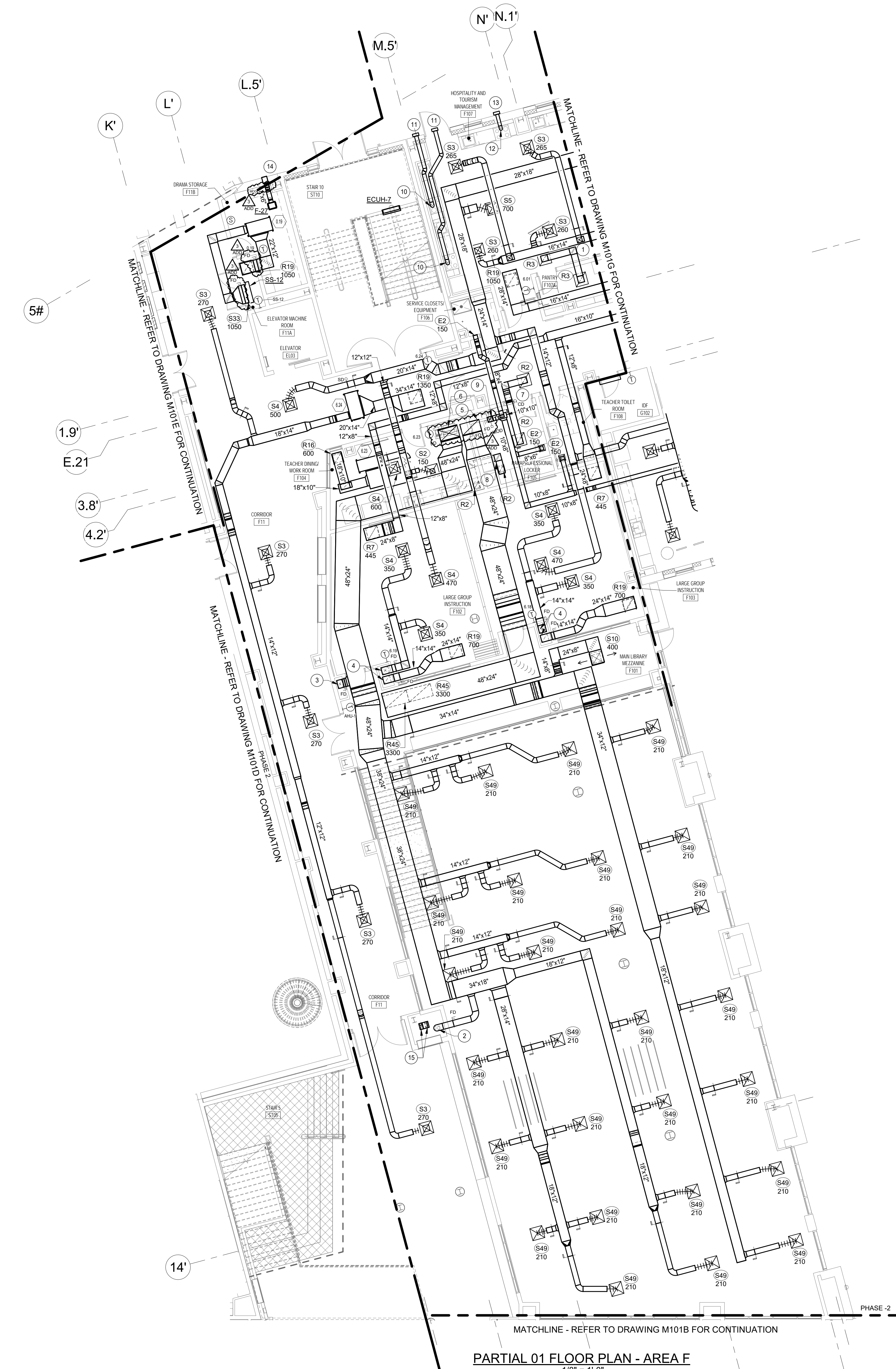


SCALE: 1/8" = 1'-0"

LEVEL 01 AREA E PARTIAL FLOOR PLAN

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

M101E
12/22/2023
BID SET



GENERAL NOTES:

1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 2.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.

DRAWING NOTES:

- 1 12"x12" SOUNDLINE TRANSFER AIR DUCT.
- 2 12" S/A DUCT DN. REFER TO DWG M100F FOR CONTINUATION.
- 3 16"x10" S/A DUCT DN. REFER TO DWG M100F FOR CONTINUATION.
- 4 14"x14" S/A AND R/A DUCT DN. REFER TO DWG M100F FOR CONTINUATION.
- 5 38"x22" R/A DUCT UP. REFER TO DWG M102F FOR CONTINUATION.
- 6 38"x22" S/A UP. TRANSITION TO 48"x24" DN IN VERTICAL. REFER TO DWG M102F FOR CONTINUATION.
- 7 12"x8" SOUNDLINE TRANSFER AIR DUCT.
- 8 12"x4" SOUNDLINE TRANSFER AIR DUCT.
- 9 10"x10" E/A DUCT UP. REFER TO DWG M102F FOR CONTINUATION.
- 10 7" SS DN. TO SS HOOD FULL SIZE CONNECTION.
- 11 7" SS EXHAUST DUCT WITH BROAN WALL CAP MODEL 643 WITH BACKDRAFT DAMPER AND BIRD SCREEN. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
- 12 6" SS DN. TO SS HOOD FULL SIZE CONNECTION.
- 13 6" SS EXHAUST DUCT WITH BROAN WALL CAP MODEL 643 WITH BACKDRAFT DAMPER AND BIRD SCREEN. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
- 14 8"x8" BRICK VENT BASED ON GREENHECK MODEL BVE808. CUSTOM COLOR AS SELECTED BY ARCHITECT.
- 15 12"x6" E/A DUCT DN. OFFSET IN HORIZONTAL UP. TRANSITION TO 12"x8" IN VERTICAL. REFER TO DWG M100F AND M102F FOR CONTINUATION.

ALBAN ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARRISBURG, PA 17105
TEL: 717.634.1111
WWW.ALBANENGINEERING.COM

THIS DRAWING IS THE PROPERTY OF ALBAN ENGINEERING, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE # 4601 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.girmmandparker.com

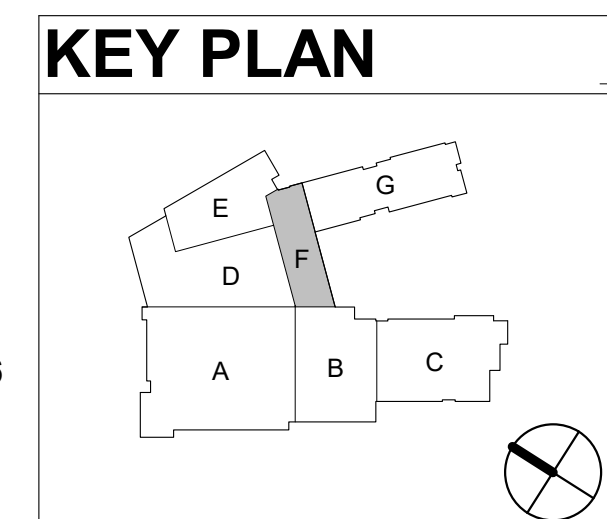
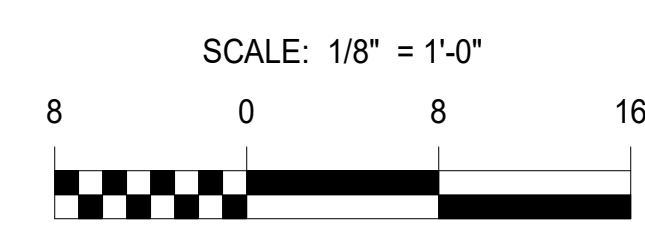
G+P
GRIMM + PARKER
ARCHITECTS

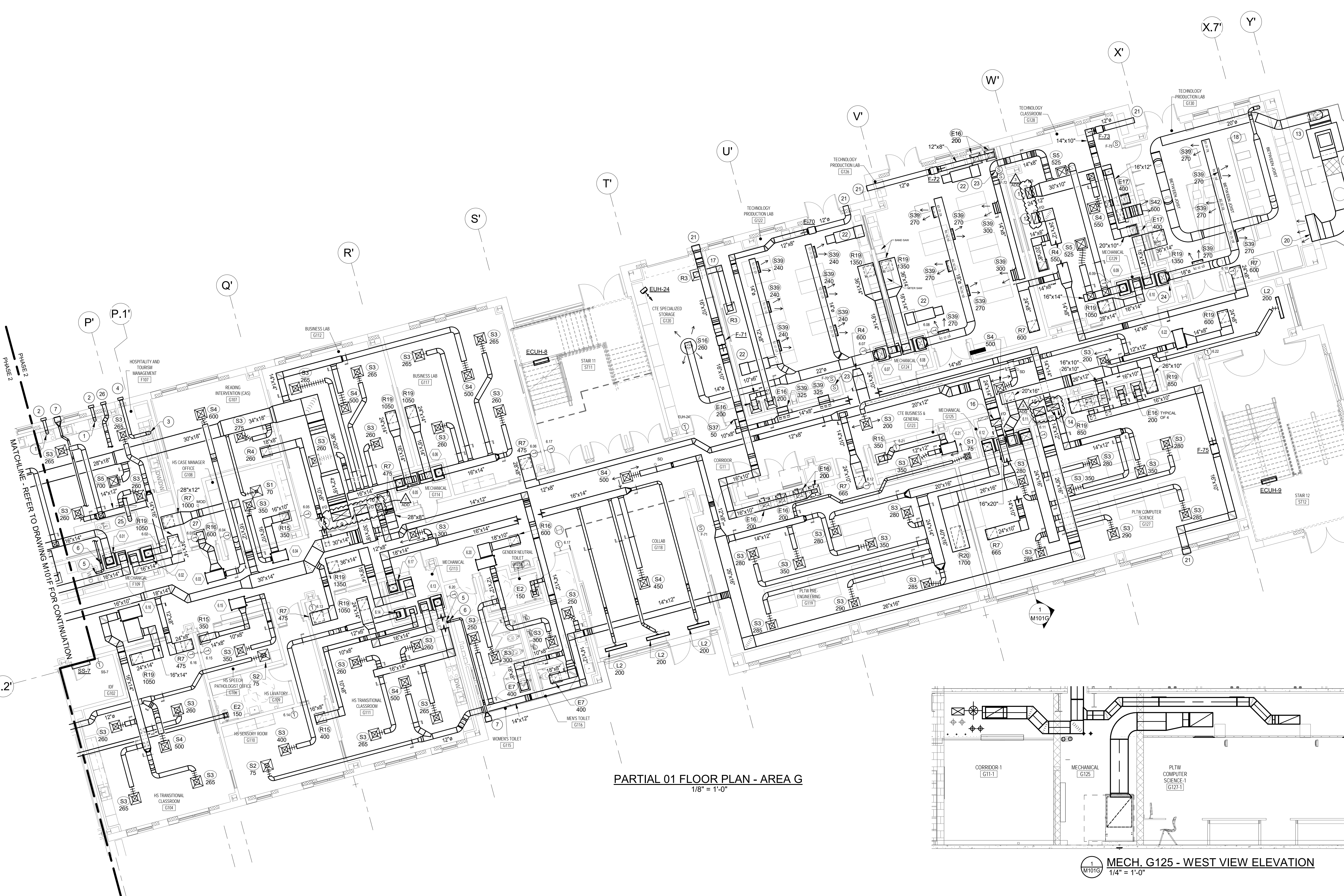
GP #22105

LEVEL 01 AREA F PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

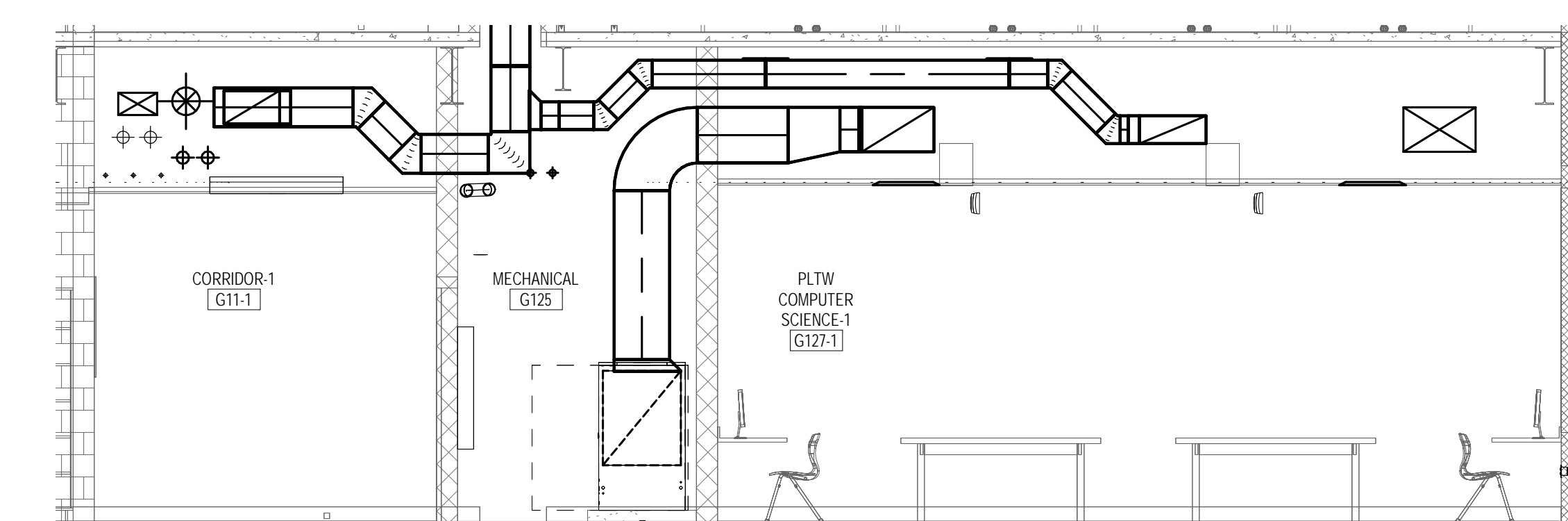
DATE	DESCRIPTION
3/13/2024	ADDENDUM #1
3/25/2024	ADDENDUM #3

M101F
12/22/2023
BID SET





PARTIAL 01 FLOOR PLAN - AREA G
1/8" = 1'-0"



MECH. G125 - WEST VIEW ELEVATION
1/4" = 1'-0"

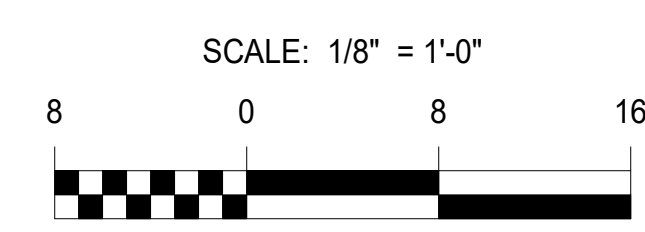
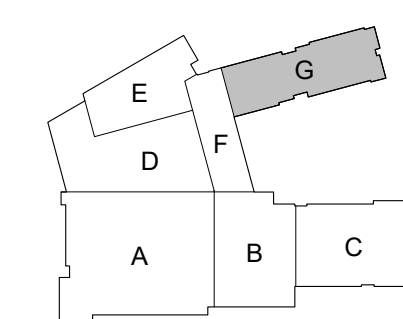
DRAWING NOTES:

- 6" SS DN. TO SS HOOD FULL SIZE CONNECTION.
- 6" SS EXHAUST DUCT WITH BROAN WALL CAP MODEL 641 WITH BACKDRAFT DAMPER AND BIRD SCREEN. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
- 7" SS DN. TO SS HOOD FULL SIZE CONNECTION.
- 7" SS EXHAUST DUCT WITH BROAN WALL CAP MODEL 643 WITH BACKDRAFT DAMPER AND BIRD SCREEN. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
- 4" SS DRYER VENT CONNECT TO FULL SIZE DRYER CONNECTION.
- 4" SS DRYER VENT UP.
- 4" HOODED WALL CAP WITH BACKDRAFT DAMPER AND BRIDSCREEN.
- 42"x18" O/A DUCT UP. REFER TO DWG M102G AND M103G FOR CONTINUATION.
- 30"x18" R/A DUCT UP. REFER TO DWG M102G AND M103G FOR CONTINUATION.
- 14"x14" E/A DUCT UP. REFER TO DWG M102G AND M103G FOR CONTINUATION.
- 24"x12" O/A DUCT UP. REFER TO DWG M102G FOR CONTINUATION.
- 24"x12" R/A DUCT UP. REFER TO DWG M102G AND M103G FOR CONTINUATION.
- CENTRAL DUST COLLECTION SYSTEM WITH 2.5G GALLON DRUM HOPPERS ON CONCRETE PAD. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
- 14"x12" AND 14"x14" O/A DUCT UP. TRANSITION TO 28"x12" IN VERTICAL. CONNECT TO 38"x20" PLENUM BOX IN LEVEL 2 CHASE. REFER TO DWG M102G FOR CONTINUATION.
- 26"x16" O/A DUCT UP. CONNECT TO 38"x20" PLENUM BOX IN LEVEL 2 CHASE. REFER TO DWG M102G FOR CONTINUATION.
- 24"x14" R/A DUCT UP. REFER TO DWG M102G AND M103G FOR CONTINUATION.
- 12"x12" SOUNDLINED TRANSFER AIR DUCT.
- REFER TO PRODUCTION LAB DUST COLLECTOR DETAIL ON DETAIL SHEET FOR MORE INFORMATION.
- 36"x24" SOUND ATTENUATOR WITH HOT DIPPED GALVANIZES STEEL PIPE SUPPORT. REFER TO PRODUCTION LAB DUST COLLECTOR DETAIL ON DETAIL SHEET FOR MORE INFORMATION.
- 60"x36" OPEN END DUCT WITH 1/2" MESH BIRDSCREEN.
- 12" WALL CAP WITH MOD DAMPER AND BIRDSCREEN INTERLOCKE WITH FAN.
- RECIRCULATING DUST FILTRATION UNIT. AIR FLOW SYSTEMS MODEL 570SR. INTERLOCK WITH SWITCH.
- 2500 CFM HIGH SPEED
1400 CFM LOW SPEED
WITH SILENCER
2" THICK PRE FILTER
95% BAG FILTER
MONOMETER PRESSURE GAUGE KIT
3/4" HP, 120V/1/60HZ
FREE HANGING WITH VIBRATION ISOLATION
- AIR FLOW SYSTEM SWITCH.

GENERAL NOTES:

- ALL WORK IN THIS AREA IS DONE UNDER PHASE 2.
- ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.

KEY PLAN

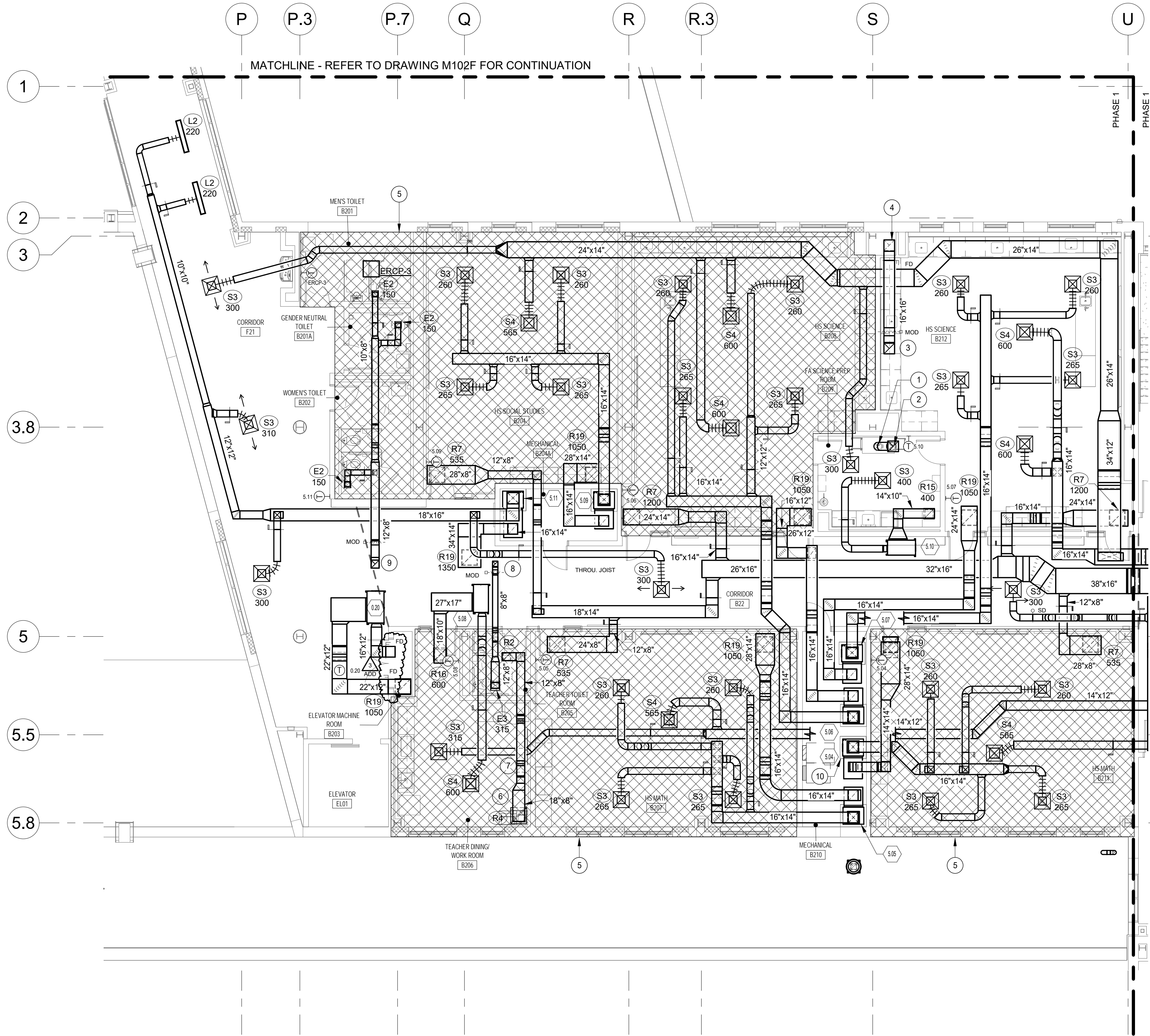


GENERAL NOTES:

1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 1. UNLESS NOTED OTHERWISE.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.

DRAWING NOTES:

1. 12"Ø SS FUME HOOD E/A DUCT DN TO FUME HOOD FULL SIZE CONNECTION UNDER PHASE 2.
2. 12"Ø SS FUME HOOD E/A DUCT UP, TRANSITION TO 16"x16" IN VERTICAL TO E-35 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
3. 16"x16" E/A DUCT UP TO E-9 ON ROOF. REFER TO DWG M105 FOR CONTINUATION UNDER PHASE 1.
4. 16"x16" E/A DUCT DN. REFER TO DWG M100C FOR CONTINUATION UNDER PHASE 1.
5. SPACES ARE NOT OCCUPIED UNTIL COMPLETION OF PHASE 2. PROVIDE MAIN S/A, R/A, O/A, E/A DUCTWORK, THERMOSTAT AND ALL ASSOCIATED WORK TO THIS AREA UNDER PHASE 1. COMPLETE CEILING DEVICES, RUNOUTS AND CONNECTIONS TO CEILING AIR DEVICES UNDER PHASE 2.
6. 18"x8" SOUNDLINED TRANSFER AIR DUCT.
7. 12"x8" SOUNDLINED TRANSFER AIR DUCT.
8. 8"x8" E/A DUCT UP TO E-43 ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
9. 12"x12" E/A DUCT UP TO E-44 ON ROOF. REFER TO DWG M105 FOR CONTINUATION.
10. PROVIDE 4" HOUSEKEEPING CONCRETE PAD FOR HEAT PUMP UNITS IN ALL MECHANICAL CLOSETS.(TYPICAL)



1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 1.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.

- 1 14"x10" SOUNDLINED TRANSFER AIR DUCT.
- 2 24"x20" O/A DUCT UP. REFER TO DWG M301 FOR CONTINUATION.
- 3 38"x16" R/A DUCT UP. REFER TO DWG M301 FOR CONTINUATION.
- 4 28"x14" O/A DUCT UP. REFER TO DWG M301 FOR CONTINUATION.
- 5 50"x14" R/A DUCT DN. UP W/FD. REFER TO DWG M101C AND M301 FOR CONTINUATION.
- 6 50"x16" O/A DUCT DN. UP W/FD. REFER TO DWG M101C AND M301 FOR CONTINUATION.
- 7 28"x14" O/A DUCT UP W/FD. REFER TO DWG M301 FOR CONTINUATION.
- 8 38"x16" AND 24"x18" R/A DUCT DN. UP W/FD. REFER TO DWG M101C AND M301 FOR CONTINUATION.
- 9 48"x18" O/A DUCT DN. UP W/FD. REFER TO DWG M101C AND M301 FOR CONTINUATION.
- 10 38"x14" AND 22"x14" R/A DUCT UP. TRANSITION TO 60"x14" W/FD IN VERTICAL. REFER TO DWG M301 FOR CONTINUATION.
- 11 24"x12" O/A DUCT UP W/FD. REFER TO DWG M301 FOR CONTINUATION.
- 12 12"x9" O/A DUCT UP W/FD. REFER TO DWG M301 FOR CONTINUATION.
- 13 14"x14" E/A DUCT DN. REFER TO DWG M101C FOR CONTINUATION.
- 14 14"x14" E/A DUCT UP W/FD. REFER TO DWG M301 FOR CONTINUATION.
- 15 18"x10" AND 12"x10" R/A DUCT UP. TRANSITION TO 30"x10" W/FD IN VERTICAL. REFER TO DWG M301 FOR CONTINUATION.
- 16 14"x14" O/A DUCT UP W/FD. REFER TO DWG M301 FOR CONTINUATION.
- 17 50"x18" O/A DUCT DN. AND UP W/FD. REFER TO DWG M101C AND M301 FOR CONTINUATION.
- 18 26"x14" AND 20"x12" DN. AND UP W/FD. REFER TO DWG M101C AND M301 FOR CONTINUATION.
- 19 14"x20" O/A DUCT DN. REFER TO DWG M101C FOR CONTINUATION.
- 20 14"x20" O/A DUCT UP W/FD. REFER TO DWG M301C FOR CONTINUATION.
- 21 32"x14" R/A DUCT UP W/FD. REFER TO DWG M301 FOR CONTINUATION.
- 22 26"x18" O/A DUCT UP. REFER TO DWG M301 FOR CONTINUATION.
- 23 12"x9 SS FUME HOOD E/A DUCT DN TO FUME HOOD FULL SIZE CONNECTION.
- 24 12"x9 SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-32 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 25 12"x9 SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-33 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 26 12"x9 SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-34 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 27 12"x9 SS FUME HOOD E/A DUCT DN. REFER TO DWG M101C FOR CONTINUATION.
- 28 PROVIDE 4" HOUSEKEEPING CONCRETE PAD FOR HEAT PUMP UNITS IN ALL MECHANICAL CLOSETS. (TYPICAL)

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT
THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 45531,
EXPIRATION DATE: 06-03-2024*

G + P
GRIMM + PARKER
ARCHITECTS

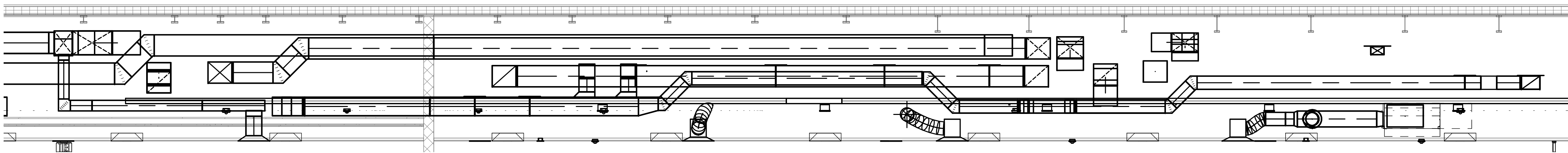
NORTH EAST MIDDLE / HIGH SCHOOL
3300 IRISHTOWN ROAD, NORTH EAST, MD

© GRIMM AND PARKER ARCHITECTURE, INC.

Architectural floor plan of a school building, showing various rooms and corridors. The plan includes a matchline on the left indicating it is a continuation of drawing M102B. The plan is divided into sections by a vertical dashed line labeled "PHASE 1".

Rooms and areas shown include:

- MS SCIENCE (C213, C217)
- MS ENGLISH (C207, C212)
- MS MATH (C211, C212)
- MS SOCIAL STUDIES (C211, C212)
- MS MATH STORAGE (C211)
- MS MATH (C211)
- MS SCIENCE (C216)
- MS SCIENCE (C215)
- MS SCIENCE (C214)
- MS SCIENCE (C213)
- MS SCIENCE (C212)
- MS SCIENCE (C211)
- MS SCIENCE (C210)
- MS SCIENCE (C209)
- MS SCIENCE (C208)
- MS SCIENCE (C207)
- MS SCIENCE (C206)
- MS SCIENCE (C205)
- MS SCIENCE (C204)
- MS SCIENCE (C203)
- MS SCIENCE (C202)
- MS SCIENCE (C201)
- MS SCIENCE (C200)
- MS SCIENCE (C199)
- MS SCIENCE (C198)
- MS SCIENCE (C197)
- MS SCIENCE (C196)
- MS SCIENCE (C195)
- MS SCIENCE (C194)
- MS SCIENCE (C193)
- MS SCIENCE (C192)
- MS SCIENCE (C191)
- MS SCIENCE (C190)
- MS SCIENCE (C189)
- MS SCIENCE (C188)
- MS SCIENCE (C187)
- MS SCIENCE (C186)
- MS SCIENCE (C185)
- MS SCIENCE (C184)
- MS SCIENCE (C183)
- MS SCIENCE (C182)
- MS SCIENCE (C181)
- MS SCIENCE (C180)
- MS SCIENCE (C179)
- MS SCIENCE (C178)
- MS SCIENCE (C177)
- MS SCIENCE (C176)
- MS SCIENCE (C175)
- MS SCIENCE (C174)
- MS SCIENCE (C173)
- MS SCIENCE (C172)
- MS SCIENCE (C171)
- MS SCIENCE (C170)
- MS SCIENCE (C169)
- MS SCIENCE (C168)
- MS SCIENCE (C167)
- MS SCIENCE (C166)
- MS SCIENCE (C165)
- MS SCIENCE (C164)
- MS SCIENCE (C163)
- MS SCIENCE (C162)
- MS SCIENCE (C161)
- MS SCIENCE (C160)
- MS SCIENCE (C159)
- MS SCIENCE (C158)
- MS SCIENCE (C157)
- MS SCIENCE (C156)
- MS SCIENCE (C155)
- MS SCIENCE (C154)
- MS SCIENCE (C153)
- MS SCIENCE (C152)
- MS SCIENCE (C151)
- MS SCIENCE (C150)
- MS SCIENCE (C149)
- MS SCIENCE (C148)
- MS SCIENCE (C147)
- MS SCIENCE (C146)
- MS SCIENCE (C145)
- MS SCIENCE (C144)
- MS SCIENCE (C143)
- MS SCIENCE (C142)
- MS SCIENCE (C141)
- MS SCIENCE (C140)
- MS SCIENCE (C139)
- MS SCIENCE (C138)
- MS SCIENCE (C137)
- MS SCIENCE (C136)
- MS SCIENCE (C135)
- MS SCIENCE (C134)
- MS SCIENCE (C133)
- MS SCIENCE (C132)
- MS SCIENCE (C131)
- MS SCIENCE (C130)
- MS SCIENCE (C129)
- MS SCIENCE (C128)
- MS SCIENCE (C127)
- MS SCIENCE (C126)
- MS SCIENCE (C125)
- MS SCIENCE (C124)
- MS SCIENCE (C123)
- MS SCIENCE (C122)
- MS SCIENCE (C121)
- MS SCIENCE (C120)
- MS SCIENCE (C119)
- MS SCIENCE (C118)
- MS SCIENCE (C117)
- MS SCIENCE (C116)
- MS SCIENCE (C115)
- MS SCIENCE (C114)
- MS SCIENCE (C113)
- MS SCIENCE (C112)
- MS SCIENCE (C111)
- MS SCIENCE (C110)
- MS SCIENCE (C109)
- MS SCIENCE (C108)
- MS SCIENCE (C107)
- MS SCIENCE (C106)
- MS SCIENCE (C105)
- MS SCIENCE (C104)
- MS SCIENCE (C103)
- MS SCIENCE (C102)
- MS SCIENCE (C101)
- MS SCIENCE (C100)
- MS SCIENCE (C99)
- MS SCIENCE (C98)
- MS SCIENCE (C97)
- MS SCIENCE (C96)
- MS SCIENCE (C95)
- MS SCIENCE (C94)
- MS SCIENCE (C93)
- MS SCIENCE (C92)
- MS SCIENCE (C91)
- MS SCIENCE (C90)
- MS SCIENCE (C89)
- MS SCIENCE (C88)
- MS SCIENCE (C87)
- MS SCIENCE (C86)
- MS SCIENCE (C85)
- MS SCIENCE (C84)
- MS SCIENCE (C83)
- MS SCIENCE (C82)
- MS SCIENCE (C81)
- MS SCIENCE (C80)
- MS SCIENCE (C79)
- MS SCIENCE (C78)
- MS SCIENCE (C77)
- MS SCIENCE (C76)
- MS SCIENCE (C75)
- MS SCIENCE (C74)
- MS SCIENCE (C73)
- MS SCIENCE (C72)
- MS SCIENCE (C71)
- MS SCIENCE (C70)
- MS SCIENCE (C69)
- MS SCIENCE (C68)
- MS SCIENCE (C67)
- MS SCIENCE (C66)
- MS SCIENCE (C65)
- MS SCIENCE (C64)
- MS SCIENCE (C63)
- MS SCIENCE (C62)
- MS SCIENCE (C61)
- MS SCIENCE (C60)
- MS SCIENCE (C59)
- MS SCIENCE (C58)
- MS SCIENCE (C57)
- MS SCIENCE (C56)
- MS SCIENCE (C55)
- MS SCIENCE (C54)
- MS SCIENCE (C53)
- MS SCIENCE (C52)
- MS SCIENCE (C51)
- MS SCIENCE (C50)
- MS SCIENCE (C49)
- MS SCIENCE (C48)
- MS SCIENCE (C47)
- MS SCIENCE (C46)
- MS SCIENCE (C45)
- MS SCIENCE (C44)
- MS SCIENCE (C43)
- MS SCIENCE (C42)
- MS SCIENCE (C41)
- MS SCIENCE (C40)
- MS SCIENCE (C39)
- MS SCIENCE (C38)
- MS SCIENCE (C37)
- MS SCIENCE (C36)
- MS SCIENCE (C35)
- MS SCIENCE (C34)
- MS SCIENCE (C33)
- MS SCIENCE (C32)
- MS SCIENCE (C31)
- MS SCIENCE (C30)
- MS SCIENCE (C29)
- MS SCIENCE (C28)
- MS SCIENCE (C27)
- MS SCIENCE (C26)
- MS SCIENCE (C25)
- MS SCIENCE (C24)
- MS SCIENCE (C23)
- MS SCIENCE (C22)
- MS SCIENCE (C21)
- MS SCIENCE (C20)
- MS SCIENCE (C19)
- MS SCIENCE (C18)
- MS SCIENCE (C17)
- MS SCIENCE (C16)
- MS SCIENCE (C15)
- MS SCIENCE (C14)
- MS SCIENCE (C13)
- MS SCIENCE (C12)
- MS SCIENCE (C11)
- MS SCIENCE (C10)
- MS SCIENCE (C9)
- MS SCIENCE (C8)
- MS SCIENCE (C7)
- MS SCIENCE (C6)
- MS SCIENCE (C5)
- MS SCIENCE (C4)
- MS SCIENCE (C3)
- MS SCIENCE (C2)
- MS SCIENCE (C1)
- MS SCIENCE (C0)
- MS SCIENCE (C-1)
- MS SCIENCE (C-2)
- MS SCIENCE (C-3)
- MS SCIENCE (C-4)
- MS SCIENCE (C-5)
- MS SCIENCE (C-6)
- MS SCIENCE (C-7)
- MS SCIENCE (C-8)
- MS SCIENCE (C-9)
- MS SCIENCE (C-10)
- MS SCIENCE (C-11)
- MS SCIENCE (C-12)
- MS SCIENCE (C-13)
- MS SCIENCE (C-14)
- MS SCIENCE (C-15)
- MS SCIENCE (C-16)
- MS SCIENCE (C-17)
- MS SCIENCE (C-18)
- MS SCIENCE (C-19)
- MS SCIENCE (C-20)
- MS SCIENCE (C-21)
- MS SCIENCE (C-22)
- MS SCIENCE (C-23)
- MS SCIENCE (C-24)
- MS SCIENCE (C-25)
- MS SCIENCE (C-26)
- MS SCIENCE (C-27)
- MS SCIENCE (C-28)
- MS SCIENCE (C-29)
- MS SCIENCE (C-30)
- MS SCIENCE (C-31)
- MS SCIENCE (C-32)
- MS SCIENCE (C-33)
- MS SCIENCE (C-34)
- MS SCIENCE (C-35)
- MS SCIENCE (C-36)
- MS SCIENCE (C-37)
- MS SCIENCE (C-38)
- MS SCIENCE (C-39)
- MS SCIENCE (C-40)
- MS SCIENCE (C-41)
- MS SCIENCE (C-42)
- MS SCIENCE (C-43)
- MS SCIENCE (C-44)
- MS SCIENCE (C-45)
- MS SCIENCE (C-46)
- MS SCIENCE (C-47)
- MS SCIENCE (C-48)
- MS SCIENCE (C-49)
- MS SCIENCE (C-50)
- MS SCIENCE (C-51)
- MS SCIENCE (C-52)
- MS SCIENCE (C-53)
- MS SCIENCE (C-54)
- MS SCIENCE (C-55)
- MS SCIENCE (C-56)
- MS SCIENCE (C-57)
- MS SCIENCE (C-58)
- MS SCIENCE (C-59)
- MS SCIENCE (C-60)
- MS SCIENCE (C-61)
- MS SCIENCE (C-62)
- MS SCIENCE (C-63)
- MS SCIENCE (C-64)
- MS SCIENCE (C-65)
- MS SCIENCE (C-66)



1 CORRIDOR D11 - WEST ELEVATION - VIEW 1
1/4" = 1'-0"

GENERAL NOTES:

1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 2.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.

DRAWING NOTES:

- 1 46"x36" S/A DUCT UP. TRANSITION TO 46"x8" IN VERTICAL. REFER TO DWG M103D FOR CONTINUATION.
- 2 48"x36" R/A DUCT UP. REFER TO DWG M103D FOR CONTINUATION.
- 3 30"x18" S/A UP. TRANSITION TO 26"x8" IN VERTICAL.REFER TO DWG M103D FOR CONTINUATION.
- 4 36"x60" S/A DUCT UP TO RTU-11 FULL SIZE S/A CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 5 40"x34" R/A DUCT UP TO RTU-11 FULL SIZE R/A CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 6 14"x14" E/A DUCT UP TO E-30 ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 7 10"x6" O/A DUCT DN. REFER TO DWG M101D FOR CONTINUATION.
- 8 REFER TO DWG M101D FOR CONTINUATION.
- 9 14"x10" E/A DUCT DN. REFER TO DWG M101D FOR CONTINUATION.
- 10 10"x6" S/A DUCT DN. REFER TO DWG M101D FOR CONTINUATION.
- 11 6"x6" O/A DUCT DN. REFER TO DWG M101D FOR CONTINUATION.
- 12 10"x6" S/A DUCT DN. CONNECT TO UNIT FULL SIZE CONNECTION. REFER TO DWG M101D FOR CONTINUATION.
- 13 14"x14" S/A DUCT DN. REFER TO DWG M101D FOR CONTINUATION.
- 14 8"x8" O/A DUCT DN. REFER TO DWG M101D FOR CONTINUATION.
- 15 16"x14" O/A DUCT DN. REFER TO DWG M101D FOR CONTINUATION.
- 16 10"x10" O/A DUCT DN. REFER TO DWG M101D FOR CONTINUATION.
- 17 16"x16" O/A DUCT DN. REFER TO DWG M101D FOR CONTINUATION.
- 18 REFER TO DWG M101E FOR CONTINUATION.
- 19 18"x8" S/A DUCT DN. AND UP TRANSITION TO 14"x8" IN VERTICAL. REFER TO DWG M101D AND 103 D FOR CONTINUATION.
- 20 8"x8" E/A DUCT DN. AND UP TO E-47 ON ROOF. REFER TO DWG M101D AND 104 FOR CONTINUATION.
- 21 10"x10" E/A DUCT DN. AND UP TO E-48 ON ROOF. REFER TO DWG M101D AND 104 FOR CONTINUATION.

MATCHLINE - REFER TO DRAWING M101E FOR CONTINUATION

MATCHLINE - REFER TO DRAWING M102E FOR CONTINUATION

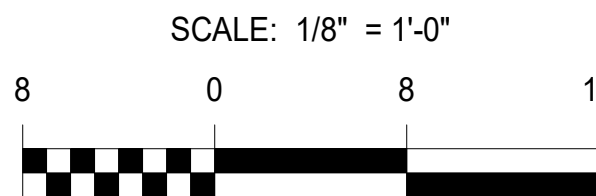
3 CORRIDOR D11 - SOUTH ELEVATION - VIEW 3
1/4" = 1'-0"

4 CORRIDOR D11 - SOUTH ELEVATION - VIEW 4
1/4" = 1'-0"

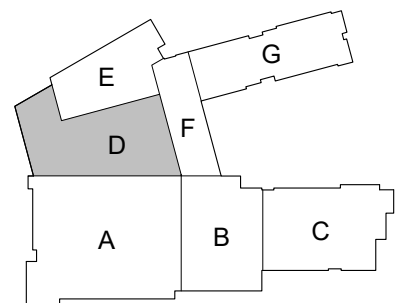
5 CORRIDOR D11 - SOUTH ELEVATION - VIEW 5
1/4" = 1'-0"

PARTIAL 02 FLOOR PLAN - AREA D
1/8" = 1'-0"

2 CORRIDOR D11 - WEST ELEVATION - VIEW 2
1/4" = 1'-0"



KEY PLAN



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 46501 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

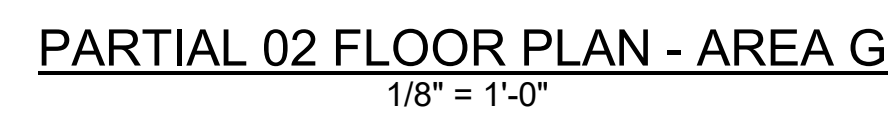


GP #22105

LEVEL 02 AREA D PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

M102D
12/22/2023
BID SET



- 17 14"x14" E/A DUCT DN OFFSET IN VERTICAL. AND UP. REFER TO DWG M101G AND M103G FOR CONTINUATION.
- 18 24"x12" O/A DUCT UP. DN WITH TRANSITION IN VERTICAL. REFER TO DWG M101G AND M103G FOR CONTINUATION.
- 19 24"x12" R/A DUCT DN AND UP. REFER TO DWG M101G AND M103G FOR CONTINUATION.
- 20 14"x14" E/A DUCT UP. REFER TO DWG M103G FOR CONTINUATION.

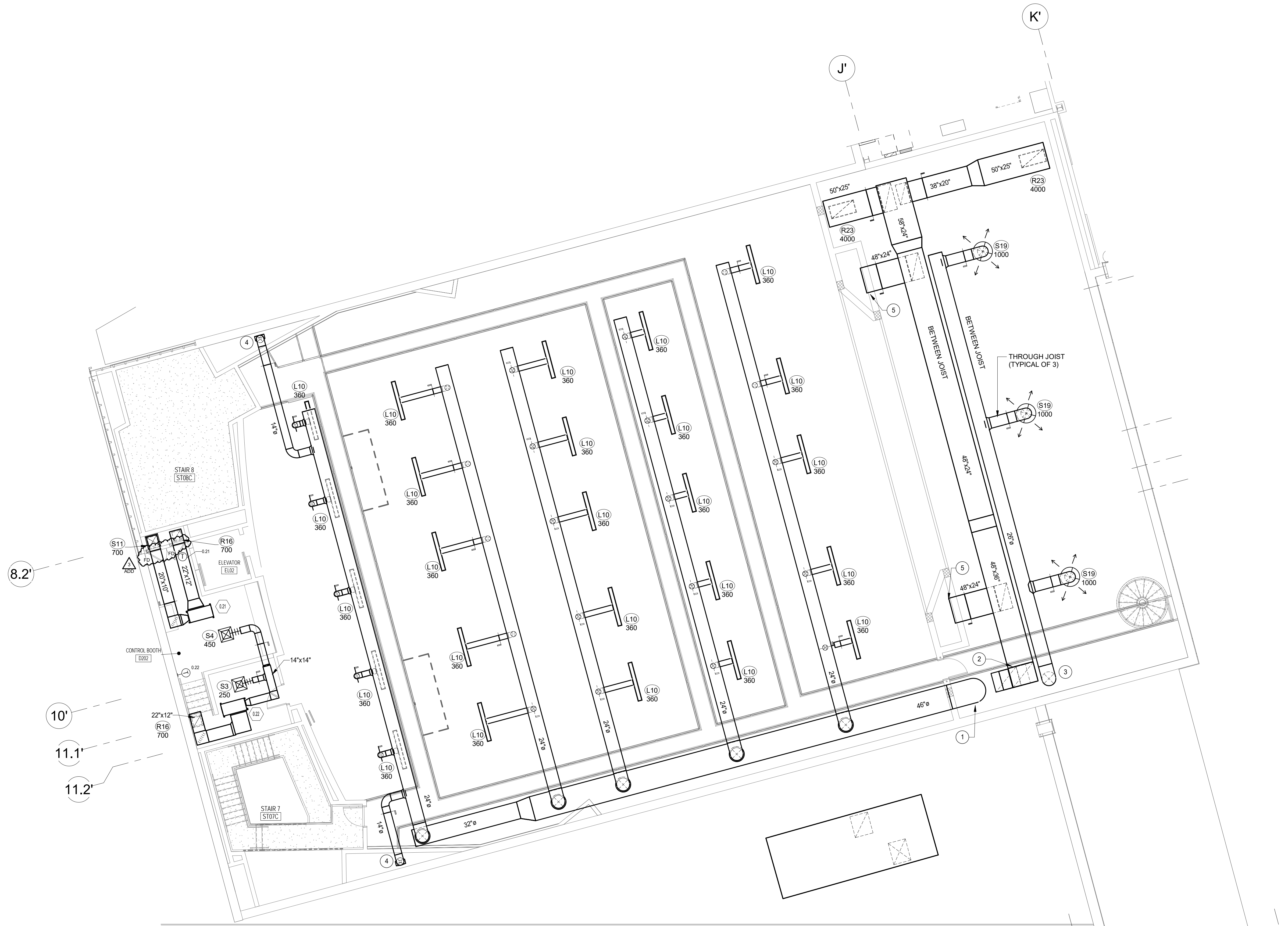
1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 2.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.



SCALE: 1/8" = 1'-0"

8 0 8

A horizontal graphic scale bar. It starts with a checkered pattern from 0 to 8 feet, followed by a solid black bar from 8 to 16 feet, and then a white bar from 16 to 24 feet. The numbers 8, 0, and 8 are placed above the bar at the 8-foot, 0-foot, and 8-foot marks respectively.



PARTIAL 03 FLOOR PLAN - AREA D
1/8" = 1'-0"

GENERAL NOTES:

1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 2.
2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.
3. ALL WORK IN AUDITORIUM SHALL BE COORDINATED WITH CATWALK AND CLOUDS.

DRAWING NOTES:

- 1 46"ø S/A DUCT DN. TRANSITION TO 46"x36" IN VERTICAL. REFER TO DWG M102D FOR CONTINUATION.
- 2 46"x36" R/A DUCT DN. OFFSET IN VERTICAL. REFER TO DWG M102D FOR CONTINUATION.
- 3 26"ø S/A DUCT DN. TRANSITION TO 30"x18" IN VERTICAL. REFER TO DWG M102D FOR CONTINUATION.
- 4 14"ø S/A DUCT DN. TRANSITION TO 18"x8" IN VERTICAL. REFER TO DWG M101D FOR CONTINUATION.
- 5 48"x24" OPEN END RETURN DUCT IN CHASE. PROVIDE 2" THICK SOUNDLINING ON CHASE WALLS.

ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARTFORD, CONNECTICUT 06103
P.O. BOX 21005
HARTFORD, CONNECTICUT 06103
WWW.ALBANENGINEERING.COM

THIS DRAWING IS THE PROPERTY OF ALBAN ENGINEERING, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 46501 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



GP #22105

LEVEL 03 AREA D PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

M103D
12/22/2023
BID SET

DRAWING NOTES:

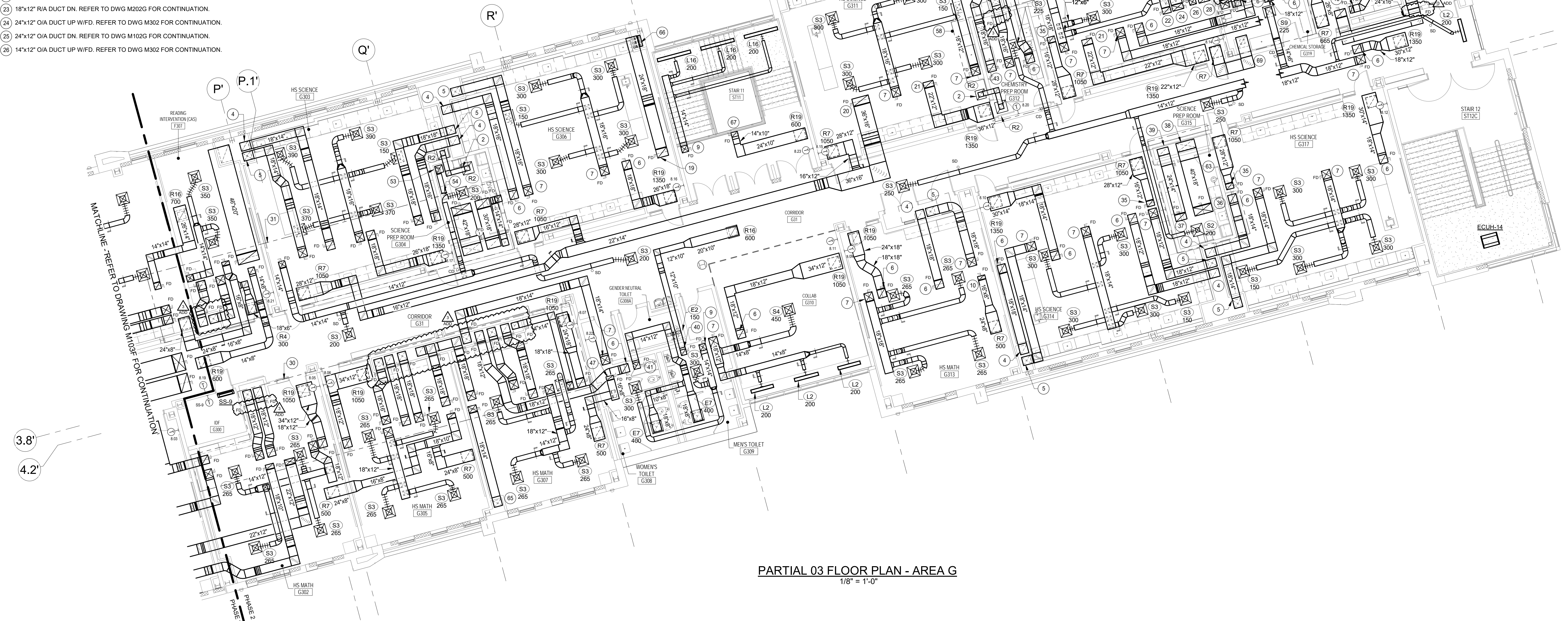
- 1 12"x12" SOUNDLINE TRANSFER AIR DUCT.
- 2 10"x10" SOUNDLINE TRANSFER AIR DUCT.
- 3 18"x18" S/A DUCT DN. TRANSITION IN VERTICAL W/FD. REFER TO DWG M102G FOR CONTINUATION.
- 4 18"x18" R/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 5 18"x18" S/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 6 18"x18" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 7 18"x18" S/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 8 14"x14" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 9 14"x14" S/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 10 16"x8" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 11 46"x20" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 12 42"x18" O/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 13 30"x18" O/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 14 14"x14" E/A DUCT UP. OFFSET IN VERTICAL W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 15 42"x18" O/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 16 30"x18" R/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 17 14"x14" E/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 18 24"x16" R/A DUCT UP W/FD. REFER TO DWG M103G FOR CONTINUATION.
- 19 24"x18" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 20 36"x16" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 21 22"x12" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 22 18"x12" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 23 18"x12" R/A DUCT DN. REFER TO DWG M202G FOR CONTINUATION.
- 24 24"x12" O/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 25 24"x12" O/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 26 14"x12" O/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 27 14"x12" O/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 28 24"x12" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 29 24"x12" R/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 30 REFER TO PARTIAL 03 FLOOR PLAN - PART 2 FOR ADDITIONAL INFORMATION IN THIS AREA.
- 31 REFER TO PARTIAL 03 FLOOR PLAN - PART 1 FOR ADDITIONAL INFORMATION IN THIS AREA.
- 32 22"x18" S/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 33 15"x8" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 34 24"x16" R/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 35 16"x12" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 36 40"x18" O/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 37 24"x14" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 38 40"x18" O/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 39 24"x14" R/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 40 12"x12" R/A DUCT UP W/FD. REFER TO DWG M302G FOR CONTINUATION.
- 41 14"x14" E/A DUCT UP W/FD TO F-16. REFER TO DWG M302 FOR CONTINUATION.
- 42 14"x14" E/A DUCT UP W/FD TO F-18. REFER TO DWG M302 FOR CONTINUATION.
- 43 18"x16" R/A DUCT UP W/FD. REFER TO DWG M302G FOR CONTINUATION.

- 44 18"x14" O/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 45 18"x10" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 46 18"x16" O/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 47 16"x8" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 48 22"x12" O/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 49 14"x14" E/A DUCT DN. REFER TO DWG M302 FOR CONTINUATION.
- 50 18"x16" O/A DUCT DN. REFER TO DWG M102 FOR CONTINUATION.
- 51 18"x18" R/A DUCT DN. OFFSET IN VERTICAL. REFER TO DWG M102G FOR CONTINUATION.
- 52 12"x8" SS FUME HOOD E/A DUCT DN TO FUME HOOD FULL SIZE CONNECTION.
- 53 12"x8" SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-36 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 54 12"x8" SS FUME HOOD E/A DUCT. REFER TO PART PLAN THIS SHEET FOR CONTINUATION.
- 55 10"x8" S/A DUCT. REFER TO FLOOR PLAN THIS SHEET FOR CONTINUATION.
- 56 12"x8" SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-37 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 57 12"x8" SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-38 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 58 REFER TO PARTIAL 03 FLOOR PLAN - PART 3 FOR ADDITIONAL INFORMATION IN THIS AREA.
- 59 12"x8" SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-39 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 60 12"x8" SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-40 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 61 12"x8" SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-41 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 62 REFER TO PARTIAL 03 FLOOR PLAN - PART 4 FOR ADDITIONAL INFORMATION IN THIS AREA.
- 63 REFER TO PARTIAL 03 FLOOR PLAN - PART 5 FOR ADDITIONAL INFORMATION IN THIS AREA.
- 64 12"x8" SS FUME HOOD E/A DUCT UP. TRANSITION TO 16"x16" IN VERTICAL TO F-42 FULL SIZE CONNECTION ON ROOF. REFER TO DWG M104 FOR CONTINUATION.
- 65 18"x14" O/A DUCT DN. REFER TO DWG M102G FOR CONTINUATION.
- 66 24"x12" R/A DUCT DN. OFFSET IN VERTICAL. REFER TO DWG M102G FOR CONTINUATION.

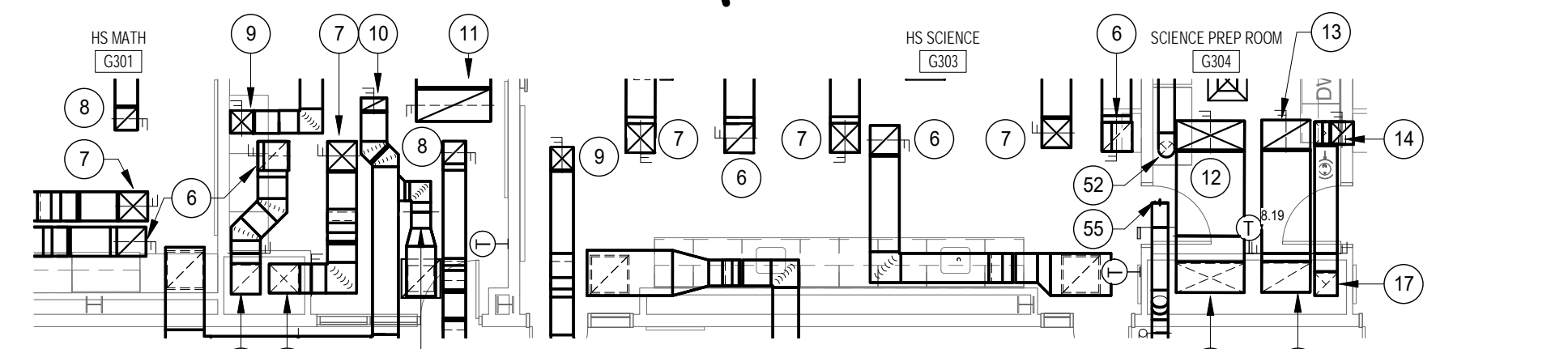
- 67 14"x10" R/A DUCT UP W/FD. REFER TO DWG M302 FOR CONTINUATION.
- 68 26"x12" R/A DUCT UP W/FD. REFER TO DWG M302G FOR CONTINUATION.
- 69 24"x10" SOUNDLINE TRANSFER AIR DUCT.

GENERAL NOTES:

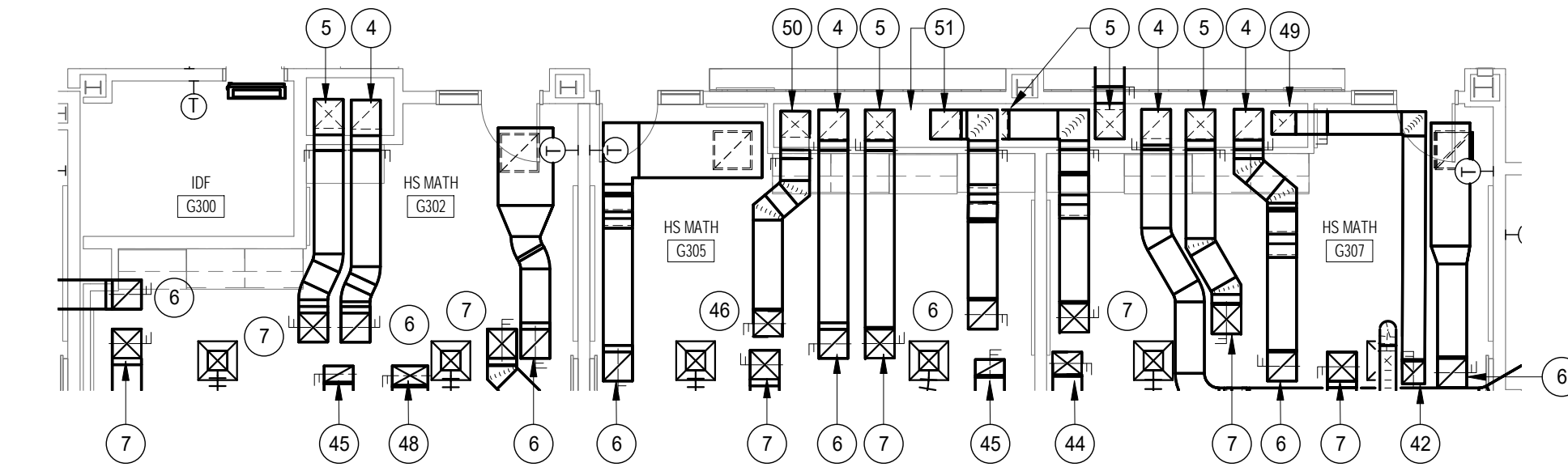
- 1. ALL WORK IN THIS AREA IS DONE UNDER PHASE 2.
- 2. ALL AIR DEVICES WITH DESIGNATED CFM SHALL BE PROVIDE WITH MANUAL VOLUME DAMPER.



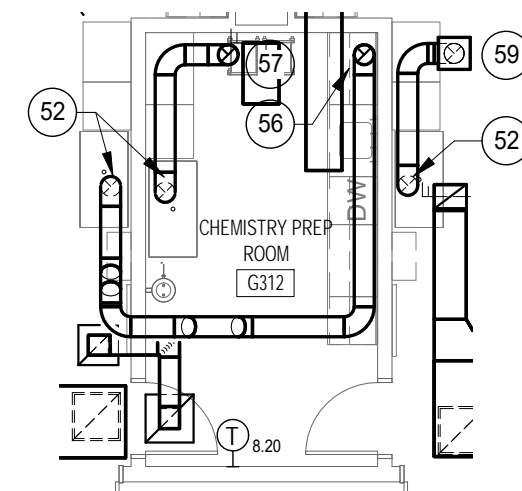
PARTIAL 03 FLOOR PLAN - AREA G
1/8" = 1'-0"



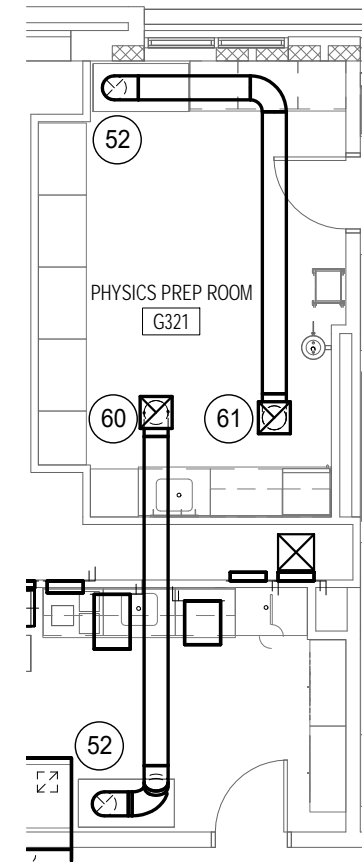
PARTIAL 03 FLOOR PLAN - PART 1
1/8" = 1'-0"



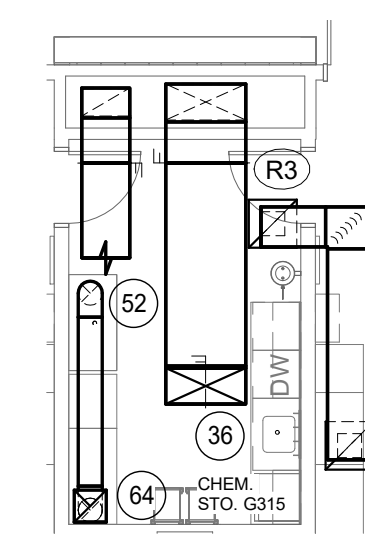
PARTIAL 03 FLOOR PLAN - PART 2
1/8" = 1'-0"



PARTIAL 03 FLOOR PLAN - PART 3
1/8" = 1'-0"

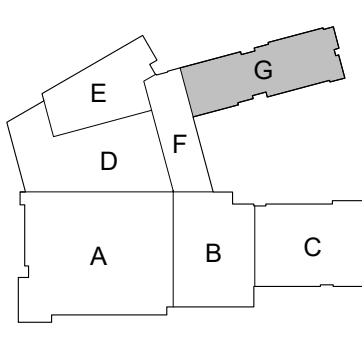


PARTIAL 03 FLOOR PLAN - PART 4
1/8" = 1'-0"



PARTIAL 03 FLOOR PLAN - PART 5
1/8" = 1'-0"

KEY PLAN



SCALE: 1/8" = 1'-0"

ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
FARMERSVILLE, OHIO 43024
PH: 614.295.1111
WWW.ALBANENGINEERING.COM
PA: 210.055

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 4651 EXPIRATION DATE: 06-30-2027

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

LEVEL 03 AREA G PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

M103G
12/22/2023
BID SET



- 1 GRAVITY INTAKE VENT
400 CFM @ 006" SP
18"x18" THROAT @ 178 FPM
32"x32"x13" H
GREENHECK WIH
- 2 GRAVITY INTAKE VENT
10,000 CFM @ 084 SP
46"x46" THROAT @ 681 FPM
50"x60"x28" H
GREENHECK WIH
- 3 GRAVITY INTAKE VENT
3,000 CFM @ 042 SP
30"x30" THROAT @ 480 FPM
44"x44"x18" H
GREENHECK WIH
- 4 12" EA DUCT DN THROUGH CURB WITH BACKDRAFT DAMPER
INSTALL PER MANUFACTURER'S RECOMMENDATION.
- 5 4" EA DUCT DN THROUGH CURB WITH BACKDRAFT DAMPER.
INSTALL PER MANUFACTURER'S RECOMMENDATION.
- 6 REFRIGERANT PIPE CURB



16 8 0 16 32

© GRIMM AND PARKER ARCHITECTURE, INC.

M
L
K
J
H
G
F
E
D
C
B
A

FAN SCHEDULE													
UNIT F-X	AREA SERVED	INTERLOCK	LOCATION	CHARACTERISTICS								TYPE	BASED ON (GREENHECK)
				CFM	ESP (N H ₂ O)	FRPM	DRIVE TYPE	MOTOR		ELECTRICAL			
								HP	TYPE	V/ø/Hz	EMERGENCY POWER		
1	KITCHEN HOOD	SWITCH/MUA-1	ROOF	4400	2.0	1541	DIRECT	3	VSD	460/3/60	YES	UPBLAST CENTRIFUGAL	CUE-200HP-VG
2	B017 DISHWASHER	SWITCH	ROOF	1500	1.0	1352	DIRECT	3/4	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-140-VG
3	B025 ELECTRICAL EQUIPMENT AREA	T-STAT	B025	10000	.40	777	BELT	1 1/2	ODP	460/3/60	YES	SIDEWALL PROPELLER	SBE-3H36-15
4	B028 FIRE PUMP & B029 WATER ROOM	F-3/MOD	B025	1000	.80	1450	DIRECT	⁶⁴⁴ WATTS	ECM	115/1/60	YES	INLINE CABINET	CSP-A1410
5	B008, B009 GENDER TOILET, B010 MS AUX. STORAGE	RTU-1	ROOF	450	.50	1503	DIRECT	1/10	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-090-VG
6	B013A STAFF TOILET, B014 UTILITY AREA	HP. 2.09	ROOF	300	.50	1665	DIRECT	1/10	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-080-VG
7	B030 - CAN WASH	LGT/SWITCH	B030	150	.32	1400	DIRECT	⁴⁸ WATTS	ECM	115/1/60	YES	CEILING EXHAUST	SP-A190
8	B026A STAFF LAVATORY/SHOWER	HP. 2.11	ROOF	200	.25	1155	DIRECT	1/10	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-080-VG
9	B004A GEND. TOILET AND B004, B005 WOMEN & MEN TOILET	RTU-2	ROOF	1550	1.15	1595	DIRECT	1	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-140-VG
10	B107 - MS INTRO TO TECHNOLOGY	SWITCH	B107	200	.25	1205	DIRECT	1/10	ECM	115/1/60	NO	INLINE FAN	SQ-80-VG
11	GEM.TOL. C008A, W.TOIL. C008, M.TOIL. C010, SER.CLO. C026, T.TOIL. C025	DOAS-2	MS PENTHOUSE	1150	1.0	1576	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-12
12	F212 SERVICE CLOSETS/EQUIPMENT	DOAS-7	ROOF	225	.50	1539	DIRECT	1/10	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-080-VG
13	F208 TEACH. TOILET, F206 HS. SOCIAL STUDIES STORAGE	DOAS-7	F300	425	.50	1077	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-9
14	F300 MECHANICAL PENTHOUSE	T-STAT	F300	2500	.25	813	BELT	3/4	ODP	460/3/60	NO	SIDEWALL PROPELLER	SBE-3H24-7
15	F308 TOILET, F301 SERV.STOR, F302 HS MATH STORAGE	DOAS-8	F300	700	1.0	1590	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-9
16	G308A GEN.TOILET, G308 W.TOILET, G307 M.TOILET	DOAS-8	HS PENTHOUSE	950	.50	1135	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-12
17	G115A GEN.TOILET, G115 W.TOILET, G116 M.TOILET	DOAS-6	HS PENTHOUSE	950	.75	1345	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-12
18	G208A GEN.TOILET, G208 W.TOILET, G209 M.TOILET	DOAS-7	HS PENTHOUSE	950	.75	1345	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-12
19	GEM.TOL. C108A, W.TOIL. C108, M.TOIL. C110, SER.CLO. C126, T.TOIL. C125	DOAS-3	MS PENTHOUSE	1150	1.0	1576	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-12
20	GEM.TOL. C208A, W.TOIL. C208, M.TOIL. C210, SER.CLO. C226, T.TOIL. C225	DOAS-4	MS PENTHOUSE	1150	1.0	1576	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-12
21	B028 PUMP ROOM	T-STAT	B028	3000	.125	452	BELT	1/3	ODP	115/1/60	YES	SIDEWALL PROPELLER	SBE-3H30-3
22	B029 WATER ROOM	T-STAT	B028	3000	.125	452	BELT	1/3	ODP	115/1/60	YES	SIDEWALL PROPELLER	SBE-3H30-3
23	A002 COMMUNITY USE/STORAGE, A003 COMMUNITY SUPPORT	RTU-10	ROOF	450	.25	1206	DIRECT	1/10	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-090-VG
24	A005 CHEER MAT STORAGE	RTU-12	ROOF	150	.25	1674	DIRECT	1/15	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-060-VG
25	F004A - TOILET	AHU-1	ROOF	400	.50	1460	DIRECT	1/10	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-090-VG
26	F10-LOCKER, F106SERVIS EQUIP. F108-TEAC.TOILET, G109 HS LAV.	DOAS-6	ROOF	600	1.0	1810	DIRECT	1/2	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-100HP-VG
27	F11B - DRAMA STORAGE	LTG/SWITCH	F11B	150	.32	1400	DIRECT	⁴⁸ WATTS	ECM	115/1/60	NO	CEILING FAN	SP-A190
28	E108A TEACHER TOILET, E115 DRESSING ROOM	DOAS-9	ROOF	300	.50	1665	DIRECT	1/10	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-080-VG
29	E103 STORAGE, E106 STORAGE	DOAS-9	ROOF	300	.50	1665	DIRECT	1/10	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-080-VG
30	D105 AND D106 EVENT LAVATORIES (PHASE 1)	DOAS-1	ROOF	990	.50	1471	DIRECT	1/4	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-100-VG
31	B110 MS LAVATORY	LTG/SWITCH	ROOF	150	.25	1674	DIRECT	1/15	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-060-VG
32	C214 SCIENCE PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
33	C014 SCIENCE PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
34	C114 SCIENCE PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
35	B209 SCIENCE PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
36	G304 SCIENCE PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
37	G311 SCIENCE PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
38	G312 SCIENCE PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
39	G316 SCIENCE PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
40	G319 CHEMICAL STORAGE	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
41	G321 PHYSICS PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
42	G315 SCIENCE PREP ROOM	HOOD	ROOF	500	1.50	2744	BELT	3/4	TEFC	460/3/60	NO	HIGH PLUME BACKWARD INCLINE	VEKTOR-H-10-5
43	B203 TECH. TOILET	DOAS-5	ROOF	315	.75	1491	DIRECT	1/4	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-100HP-VG
44	B202 W. TOIL, B201A GEN.TOIL, B201 MEN'S TOIL.	DOAS-5	ROOF	450	.75	1725	DIRECT	1/10	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-090-VG
45	D113 KILN	SWITCH	D113	700	.35	1011	DIRECT	¹¹¹ WATTS	ECM	115/1/60	NO	INLINE CABINET FAN	CSP-A1050-VG
46	D113 KILN	SWITCH	D113	700	.35	1011	DIRECT	¹¹¹ WATTS	ECM	115/1/60	NO	INLINE CABINET FAN	CSP-A1050-VG
47	D103 MS PBIS STORAGE	DOAS-9	ROOF	150	.25	1674	DIRECT	1/15	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-060-VG
48	D102 SERVICE CLOSET, D102 GEND. TOILET	DOAS-9	ROOF	300	.25	1366	DIRECT	1/10	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-080-VG
49	A111 MS TOILET, A109 MS TOILET	DOAS-1	ROOF	300	.25	1366	DIRECT	1/10	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-080-VG
50	A131 HS TOILET, A129 HS TOILET	DOAS-1	ROOF	300	.25	1366	DIRECT	1/10	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-080-VG
51	A176 MS GUIDANCE TOILET, A123 HS GUIDANCE TOILET	DOAS-1	ROOF	300	.25	1366	DIRECT	1/10	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-080-VG
52	A153 HS TOILET, A152 HS TOILET	DOAS-1	ROOF	300	.25	1366	DIRECT	1/10	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-080-VG
53	A159 MS TOILET	DOAS-1	ROOF	150	.25	1674	DIRECT	1/15	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-060-VG
54	A164 HS MIP LAVATORY	DOAS-1	ROOF	150	.25	1674	DIRECT	1/15	ECM	115/1/60	YES	UPBLAST CENTRIFUGAL	CUE-060-VG
55	H301 - SERVICE STORAGE	ERV-1	H301	150	.32	1400	DIRECT	⁴⁸ WATTS	ECM	115/1/60	NO	CEILING GAN	SP-A190
56	H304 - FAMILY RESTROOM	LTG/SWITCH	H304	150	.32	1400	DIRECT	⁴⁸ WATTS	ECM	115/1/60	NO	CEILING FAN	SP-A190
57	H104 - OFFICIALS	LTG/SWITCH	H104	150	.32	1400	DIRECT	⁴⁸ WATTS	ECM	115/1/60	NO	CEILING FAN	SP-A190
58	C021B PRE-K TOILET (ADD-ALTERNATE)	LTG/SWITCH	C021B	150	.40	900	DIRECT	⁵² WATTS	ODP	115/1/60	NO	CEILING FAN	SP-A200
59	HIGH SCHOOL PENTHOUSE	TSTAT	G400	5000	.25	679	BELT	1/2	ODP	115/1/60	NO	SIDEWALL PROPELLER	SBE-3H30-5
60	MIDDLE SCHOOL PENTHOUSE	TSTAT	C300	3500	.25	617	BELT	1/3	ODP	115/1/60	NO	SIDEWALL PROPELLER	SBE-3H30-3
61	H501 GEOTHERMAL PUMP HOUSE	T-STAT	H501	3000	.25	858	BELT	3/4	ODP	460/3/60	NO	SIDEWALL PROPELLER	SBE-3H24-7
62	H501 TOILET	LTG/SWITCH	H501	150	.47	150	DIRECT	⁸³ WATTS	ODP	115/1/60	NO	CEILING FAN	SP-A250
63	H502 TOILET	LTG/SWITCH	H502	150	.47	150	DIRECT	⁸³ WATTS	ODP	115/1/60	NO	CEILING FAN	SP-A250
64	H503 GEOTHERMAL PUMP HOUSE	T-STAT	H503	3000	.25	858	BELT	3/4	ODP	460/3/60	NO	SIDEWALL PROPELLER	SBE-3H24-7
65	H308 MECH	T-STAT	ROOF	1000	.25	992	DIRECT	1/4	ECM	115/1/60	NO	POWER ROOF VENTILATOR	G-120-VG
66	H300 EXTERIOR STORAGE	SWITCH	ROOF	1000	.25	1006	DIRECT	1/4	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-120-VG
67	H603 GREENHOUSE MECH	T-STAT	H603	500	.25	928	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-9
68	H108 MECHANICAL	T-STAT	ROOF	1000	.25	1589	DIRECT	1/4	ECM	115/1/60	NO	SIDEWALL PROPELLER	SE1-12-436-VG
69	H101 EXTERIOR STORAGE	SWITCH	ROOF	1000	.25	1006	DIRECT	1/4	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-120-VG
70	G122 TECHNOLOGY LAB	SWITCH	G122	400	.35	1443	DIRECT	1/10	ECM	115/1/60	NO	INLINE FAN	SQ-90-VG
71	G119 PLTW PRE-ENGINEERING	SWITCH	G119	800	.50	1349	DIRECT	1/4	ECM	115/1/60	NO	INLINE FAN	SQ-100-VG
72	G126 TECHNOLOGY LAB	SWITCH	G126	400	.25	1305	DIRECT	1/10	ECM	115/1/60	NO	INLINE FAN	SQ-90-VG
73	G128 - TECHNOLOGY CLASSROOM	SWITCH	G128	800	.50	1349	DIRECT	1/4	ECM	115/1/60	NO	INLINE FAN	SQ-100-VG
74	E111 STAGE CONSTRUCTION	DOAS-9	F300	500	.35	1010	BELT	1/3	ODP	460/3/60	NO	MIXED FLOW - INLINE	QEI-9
75	G127 PLTW COMPUTER SCIENCE	SWITCH	G127	800	.50	1349	DIRECT	1/4	ECM	115/1/60	NO	INLINE FAN	SQ-100-VG
76	B102 MS MIP LAVATORY	LTG/SWITCH	ROOF	150	.25	1674	DIRECT	1/15	ECM	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-060-VG

NOTES: 1. TSTAT=THERMOSTAT; SW=SWITCH; SP=STATIC PRESSURE, TD=WITH 15 MINUTE TIME DELAY ZONE=ZONE OCC/UNOCC MODE
2. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH FOR ALL EXHAUST FANS, COORDINATING REQUIREMENTS AND INTERLOCKS WITH ELECTRICAL
3. REFER TO CONTROL DIAGRAMS FOR SPECIFIC SEQUENCES OF OPERATION AND INTERLOCK ARRANGEMENTS
4. KITCHEN HOOD EXHAUST FANS SHALL COMPLY WITH NFPA 96 REQUIREMENTS
5. PROVIDE SPEED CONTROLLER FOR ALL DIRECT DRIVE FANS
6. PROVIDE VARIABLE SPEED DRIVES FOR KITCHEN HOOD EXHAUST FANS



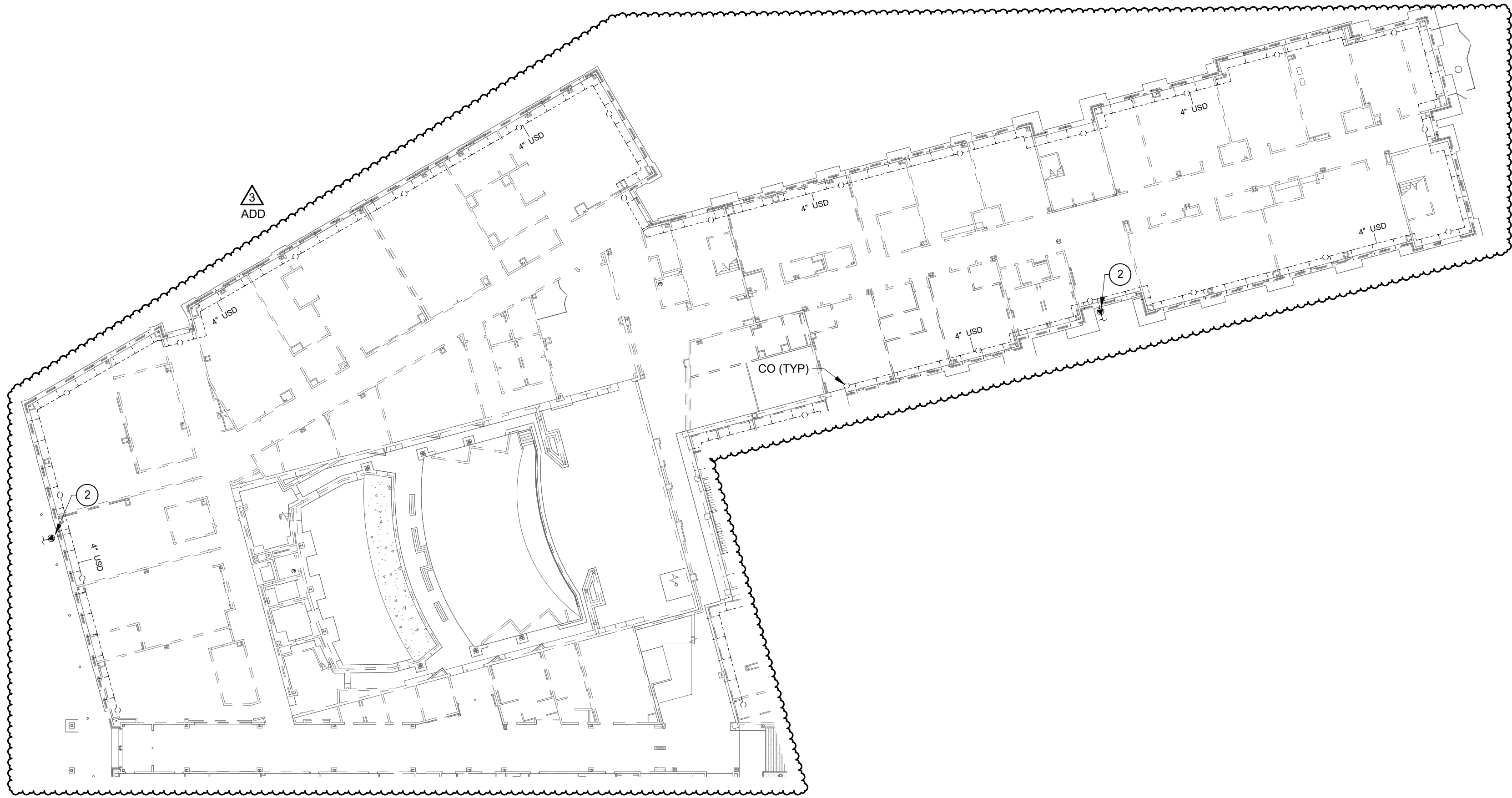
ARCHITECTURAL DIFFUSER SCHEDULE									
No. ⑤	DUTY	MIN CFM	MAX CFM	NECK SIZE	No. OF SLOTS	SLOT WIDTH (N.)	MAX NC	REMARKS	
S45	SUPPLY	0	150	8"ø	2	3/4"	18	TITUS MODU-BLOC-MBI-30	
S46	SUPPLY	0	200	12"ø	3	3/4"	18	TITUS MODU-BLOC-MBI-30	
S47	SUPPLY	0	250	14"ø	4	3/4"	18	TITUS MODU-BLOC-MBI-30	
S48	SUPPLY	0	200	8"ø	4	1"	18	TITUS MODU-BLOC-MBI-30	
S49	SUPPLY	0	250	10"ø	4	1"	18	TITUS MODU-BLOC-MBI-30	
S50	SUPPLY	0	275	12"ø	4	1"	18	TITUS MODU-BLOC-MBI-30	
S51	SUPPLY	0	300	14"ø	4	1"	18	TITUS MODU-BLOC-MBI-30	

NOTES: ALL DIFFUSERS SHALL BE 24x24 MODULE, WITH CEILING TILE FACE, 4-WAY BLOW WITH INSULATED PLENUM. DIFFUSERS SHALL BE TITUS MODU-BLOC MBI-30.

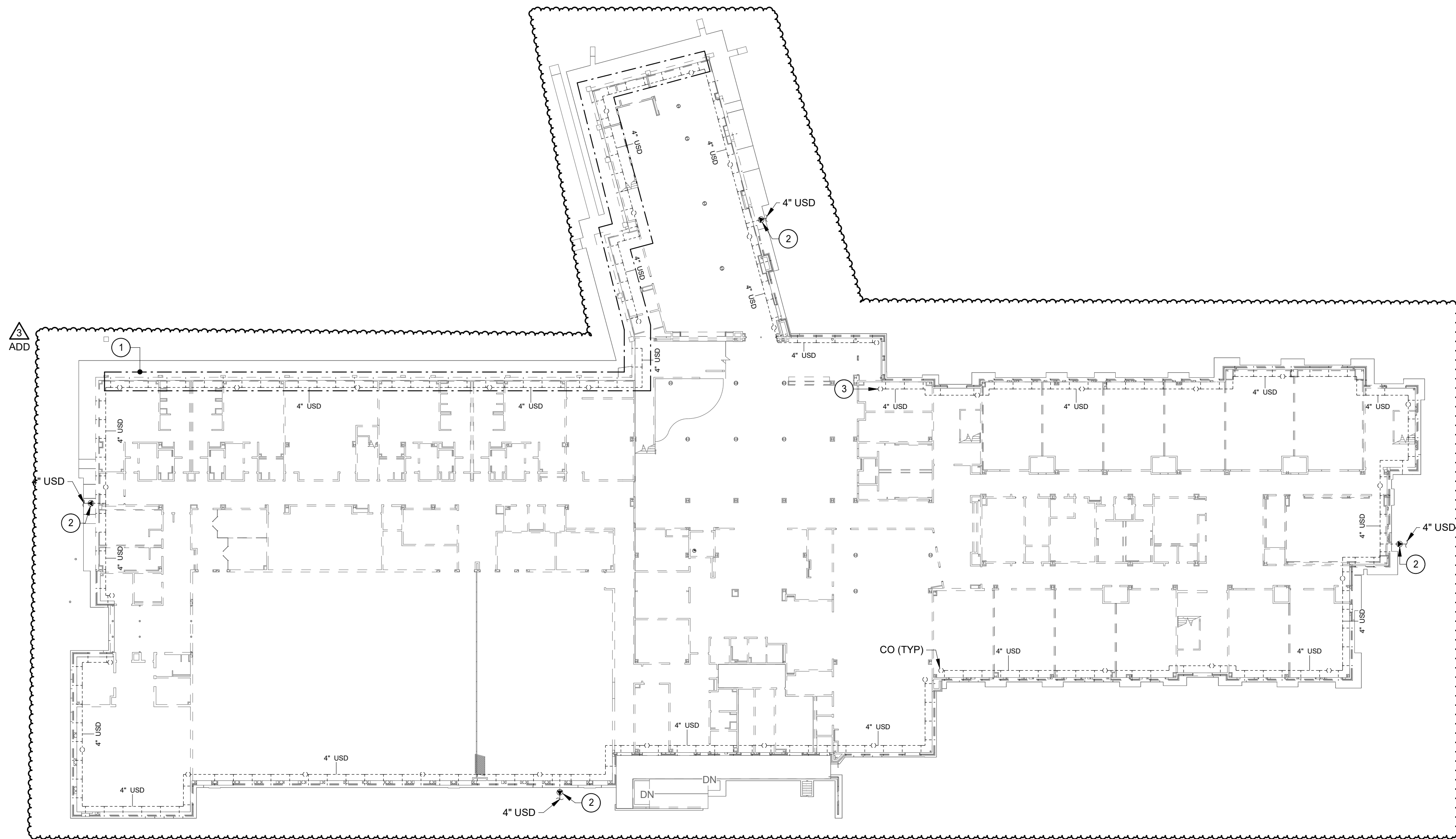
LINEAR SLOT DIFFUSER SCHEDULE												
No. ①	DUTY	CFM PER L.F.	TOTAL	No. OF SLOTS	SLOT WIDTH (N.)	TOTAL LENGTH (FT)	COLAR OR INLET SIZE	MAX N.C.	PLENUM SIZE (SOUND LINED)	BASED ON (TITUS)		
L1	SUPPLY	55.0	0-220	3	3/4	4	6"	18	31"H x 6"W	ML-38		

GENERAL NOTES:
1. REFER TO UNDERSLAB DRAINAGE DETAILS FOR ADDITIONAL INFORMATION

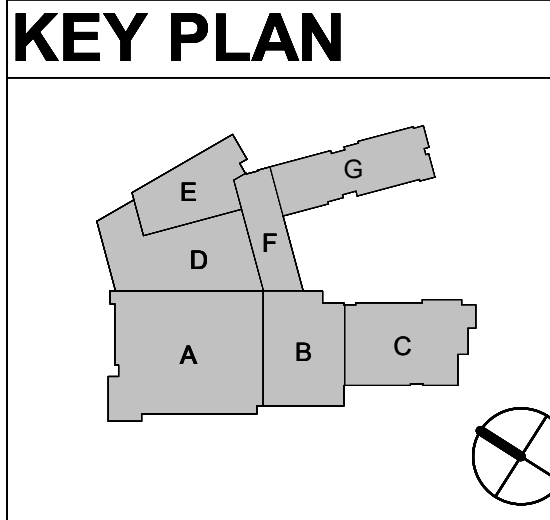
DRAWING NOTES:
① EXTERIOR WALL DRAIN UNDER PHASE 1.
UNDER PHASE 2 INTERIOR BELOW WALL GRADE DRAIN.
② BACKWATER VALVE



LEVEL 01 UNDERSLAB DRAINAGE
PART PLAN
1/32" = 1'-0"



LEVEL 00 UNDERSLAB DRAINAGE
PART PLAN
1/32" = 1'-0"



ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARTFORD, CONNECTICUT 06103
TEL: 860.234.1111
WWW.ALBANENGINEERING.COM
P.A. 21035

THIS DRAWING IS THE PROPERTY OF ALBAN ENGINEERING, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 46501 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

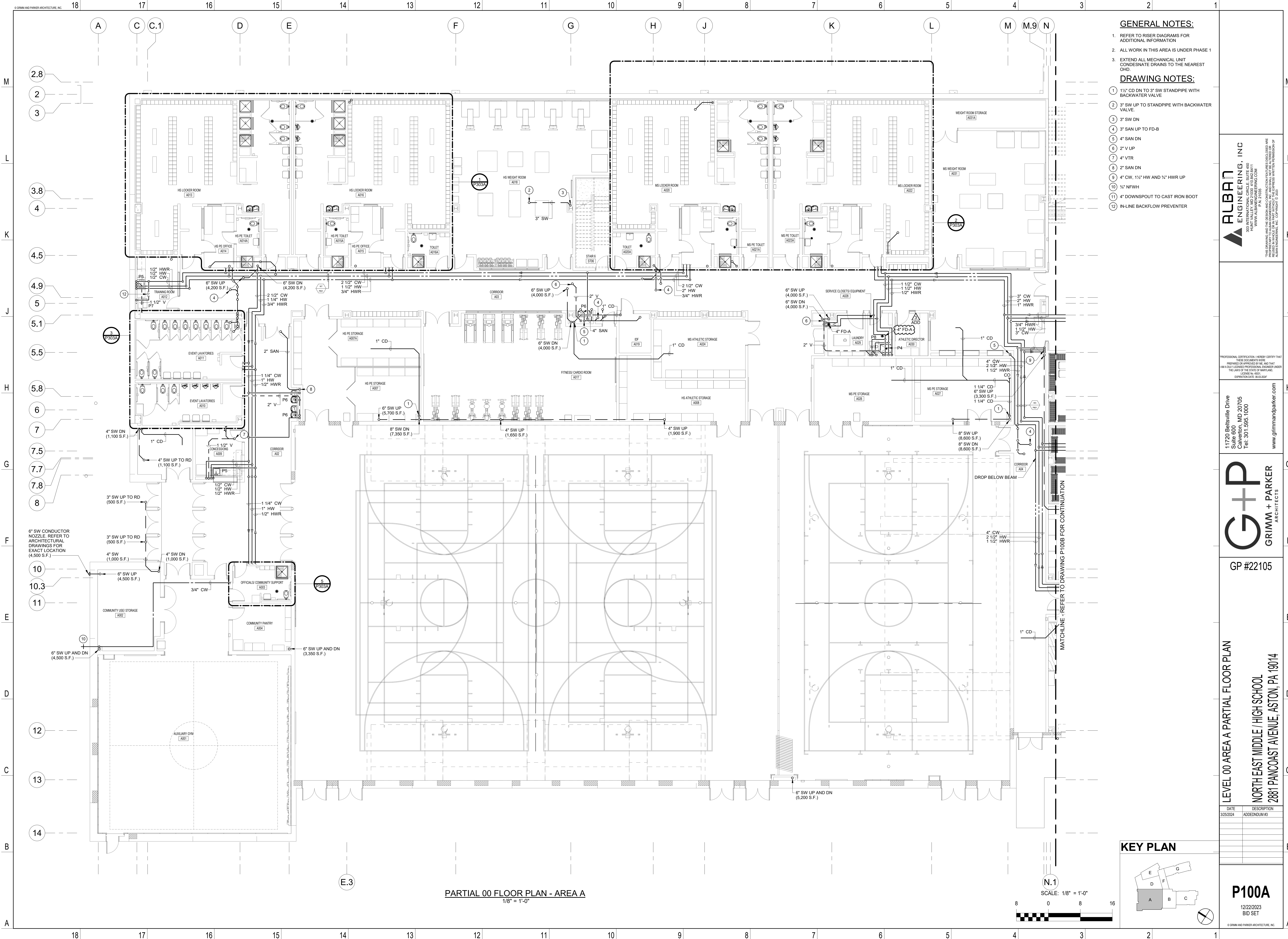
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

UNDERSLAB DRAINAGE PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
2881 PANCOAST AVENUE, ASTON, PA 19014

DATE	DESCRIPTION
3/25/2024	ADDED INDOOR #3

P003
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.



GENERAL NOTES:

- 1. REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION
- 2. ALL WORK IN THIS AREA IS UNDER PHASE 1
- 3. EXTEND ALL MECHANICAL UNIT CONDENSATE DRAINS TO THE NEAREST CHD.

DRAWING NOTES:

- 1) 1 1/2" CD DN TO 3" SW STANDPIPE WITH BACKWATER VALVE
- 2) 3" SW UP TO STANDPIPE WITH BACKWATER VALVE
- 3) 3" SW DN
- 4) 3" SAN UP TO FD-B
- 5) 4" SAN DN
- 6) 2" V UP
- 7) 4" VTR
- 8) 2" SAN DN
- 9) 4" CW, 1 1/2" HW AND 1/2" HWR UP
- 10) 1/2" NFWH
- 11) 4" DOWNSPOUT TO CAST IRON BOOT
- 12) IN-LINE BACKFLOW PREVENTER



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 48511 EXPIRATION DATE: 06-30-2027

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com



GP #22105

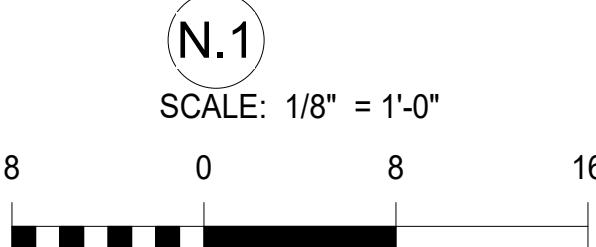
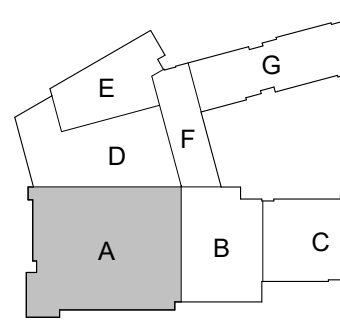
LEVEL 00 AREA A PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
2881 PANCOAST AVENUE, ASTON, PA 19014

DATE	DESCRIPTION
3/25/2024	ADDED/NOID #3

P100A
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

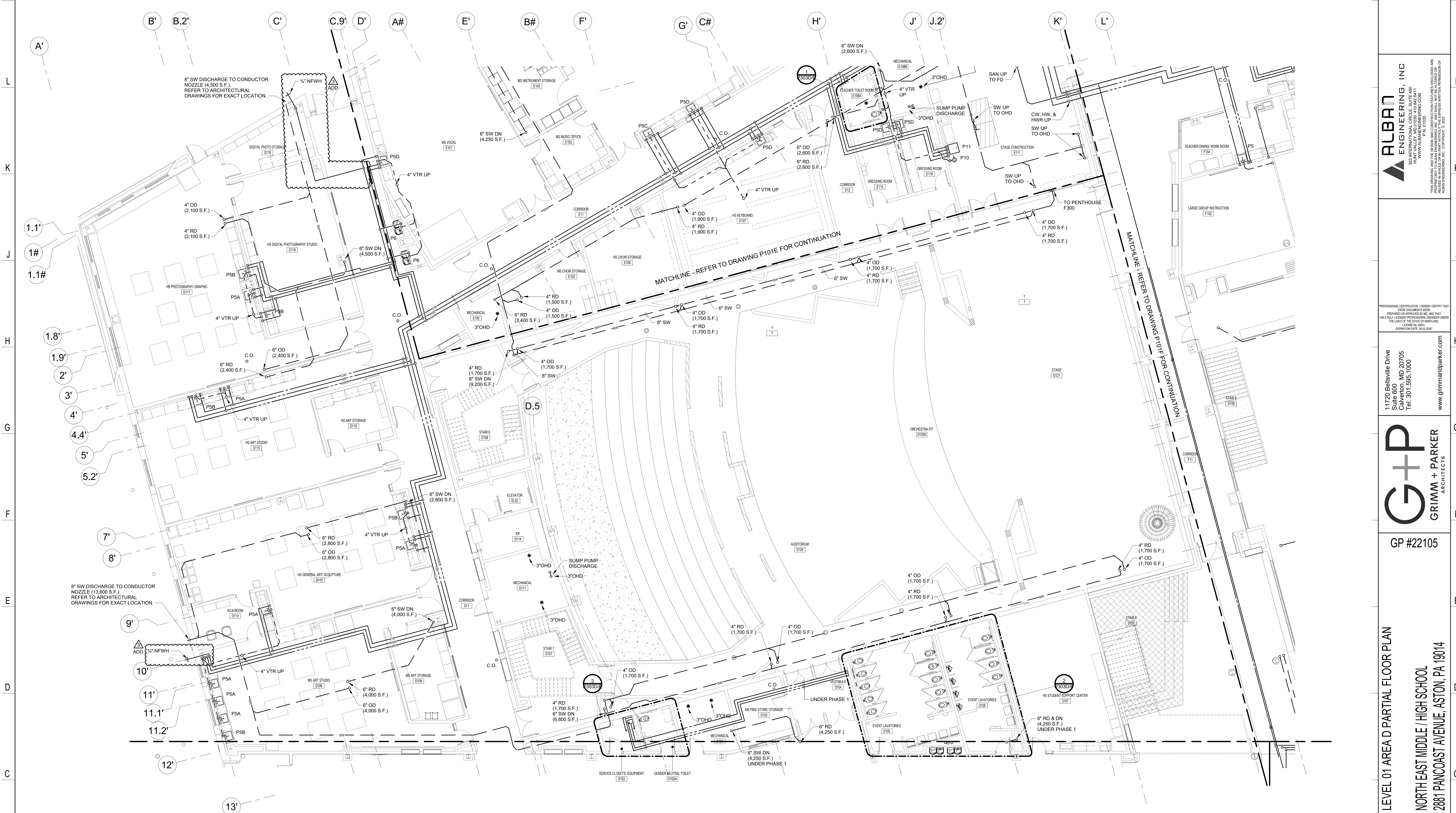
KEY PLAN



PARTIAL 00 FLOOR PLAN - AREA A
1/8" = 1'-0"

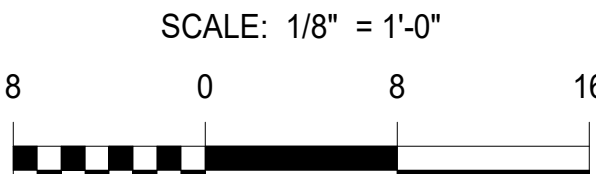
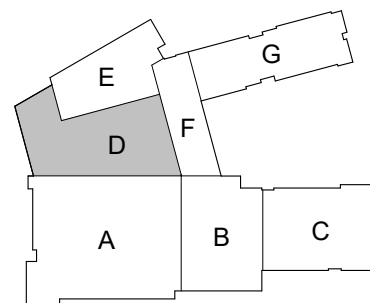
GENERAL NOTES:

1. REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION
2. ALL WORK IN THIS AREA IS UNDER PHASE 2.
3. EXTEND ALL MECHANICAL UNIT CONDENSATE DRAINS TO THE NEAREST OHD.



PARTIAL 01 FLOOR PLAN - AREA D
1/8" = 1'-0"

KEY PLAN



ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARRISBURG, PA 17105
P.A. 21035
WWW.ALBANENGINEERING.COM

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 48501 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

LEVEL 01 AREA D PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
2881 PANCOAST AVENUE, ASTON, PA 19014

DATE	DESCRIPTION
3/25/2024	ADDED/REVISED #3

P101D
12/22/2023
BID SET

GENERAL NOTES:

1. REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION
2. ALL WORK IN THIS AREA IS UNDER PHASE 2.
3. EXTEND ALL MECHANICAL UNIT CONDENSATE DRAINS TO THE NEAREST OHD.



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 48501 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

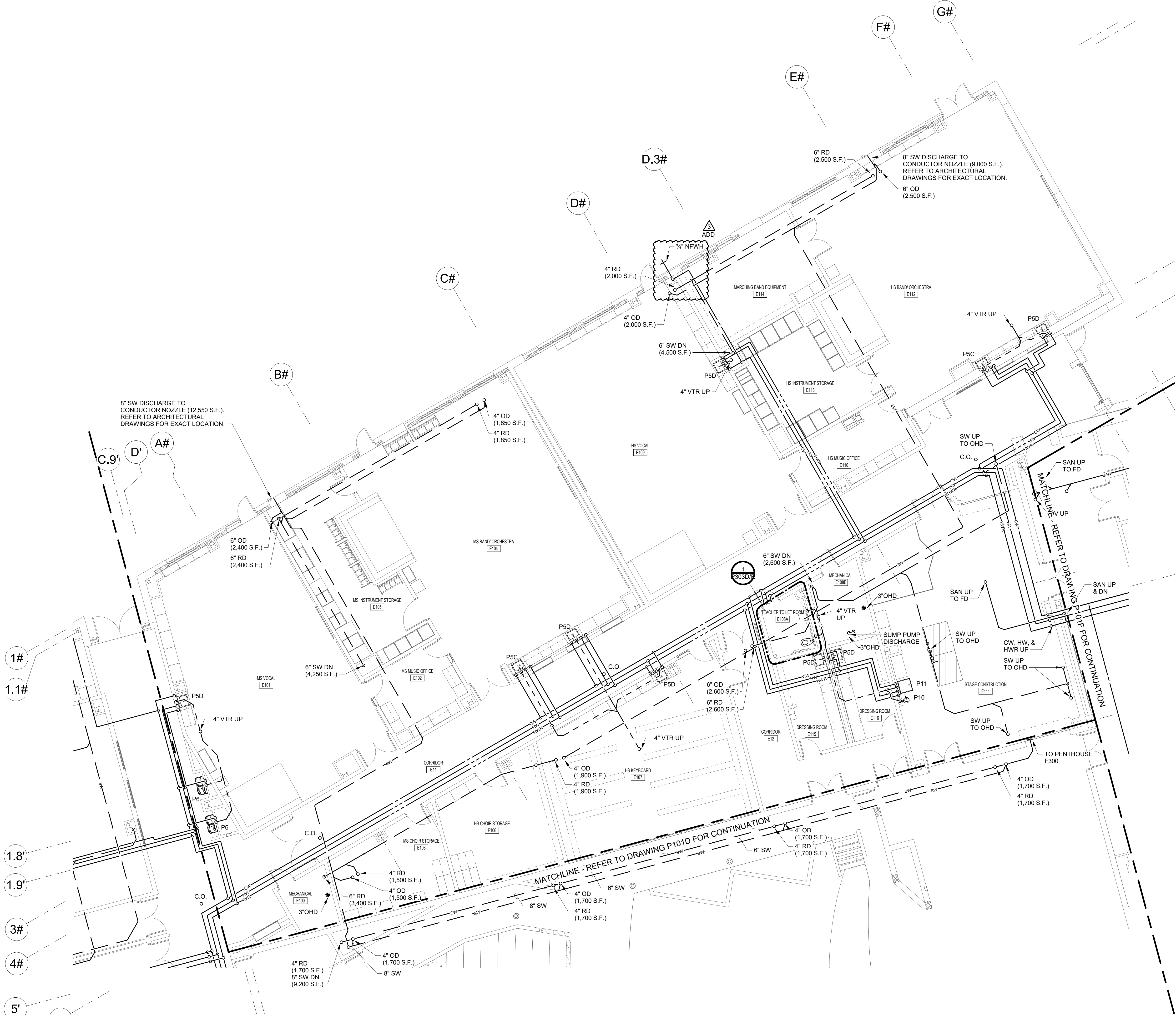


GP #22105

LEVEL 01 AREA E PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
2881 PANCOAST AVENUE, ASTON, PA 19014

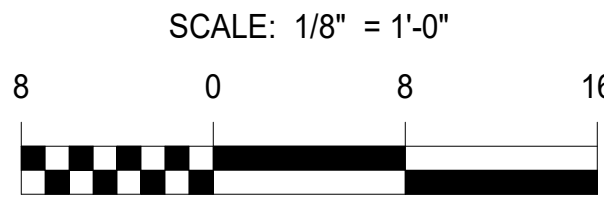
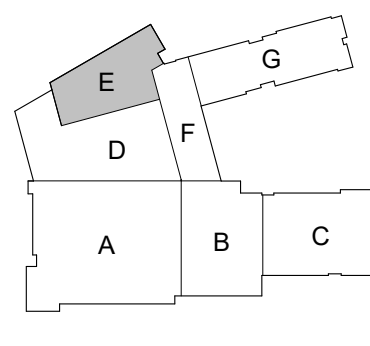
DATE	DESCRIPTION
3/25/2024	ADDED INDOOR #3

P101E
12/22/2023
BID SET



PARTIAL 01 FLOOR PLAN - AREA E
1/8" = 1'-0"

KEY PLAN





- GENERAL NOTES:**
1. REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION
 2. ALL WORK IN THIS AREA IS UNDER PHASE 2
 3. EXTEND ALL MECHANICAL UNIT CONDENSATE DRAINS TO THE NEAREST OHD.
- DRAWING NOTES:**
1. TRANSITION TO SOFT COPPER.
 2. UTILITY SHUT-OFF PANEL.
 3. REMOTE EMERGENCY SHUT-OFF BUTTON.
 4. 3" SW UP TO OHD. PROVIDE CAPPED CONNECTION UNDER PHASE 1. EXTEND PIPING TO OHD UNDER PHASE 2
 5. PROVIDE STAINLESS STEEL BIRD SCREEN UNDER PHASE 1. UNDER PHASE 2 CONTINUE PIPING AND CONNECT TO SW CONDUCTOR NOZZLE.
 6. DOWNSPOUT DN TO CAST IRON BOOT.

ALBAN ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARRISBURG, PA 17105
P: 717.651.1111
F: 717.651.1112
WWW.ALBANENGINEERING.COM

THIS DRAWING IS THE PROPERTY OF ALBAN ENGINEERING, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 46501 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

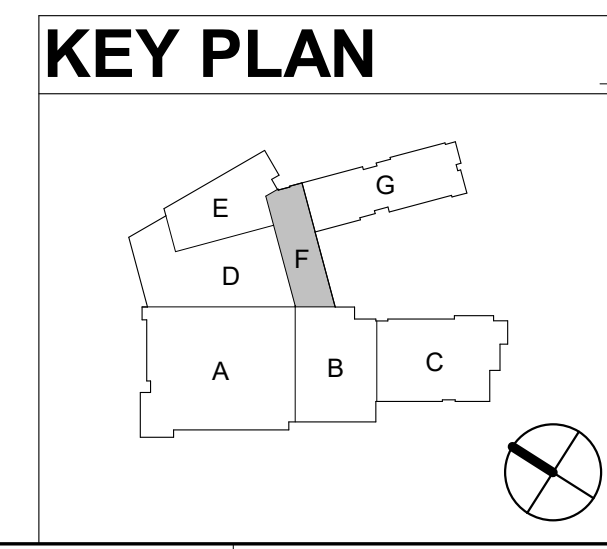
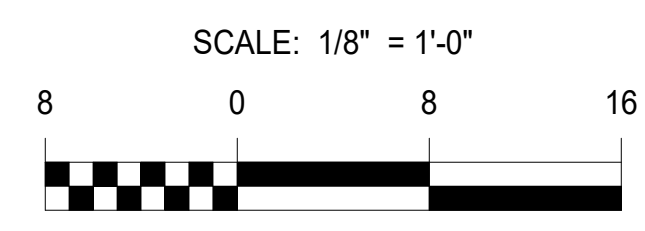
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

LEVEL 01 AREA F PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
2881 PANCOAST AVENUE, ASTON, PA 19014

DATE	DESCRIPTION
3/25/2024	ADDED INDOOR #3

P101F
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.





GENERAL NOTES:

1. REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION
2. ALL WORK IN THIS AREA IS UNDER PHASE 2
3. EXTEND ALL MECHANICAL UNIT CONDENSATE DRAINS TO THE NEAREST OHD.

DRAWING NOTES:

1. TRANSITION TO SOFT COPPER.
2. UTILITY SHUT-OFF PANEL (ELECTRIC ONLY).
3. REMOTE EMERGENCY SHUT-OFF BUTTON. INTERLOCK WITH UTILITY CONTROLLER
4. DOWNSPOUT DN TO CAST IRON BOOT.

ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARRISBURG, PA 17105
P.A. 21035
WWW.ALBANENGINEERING.COM

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 48501 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

LEVEL 01 AREA G PARTIAL FLOOR PLAN
NORTH EAST MIDDLE / HIGH SCHOOL
2881 PANCOAST AVENUE, ASTON, PA 19014

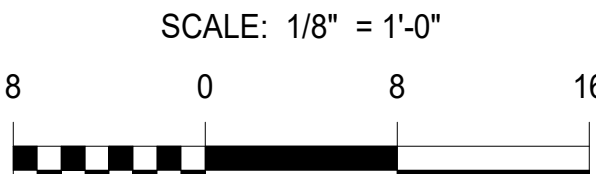
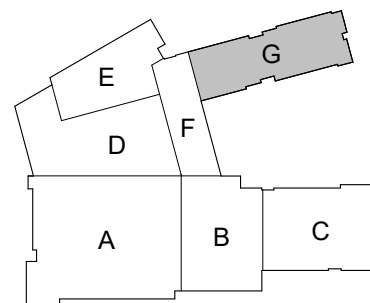
DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

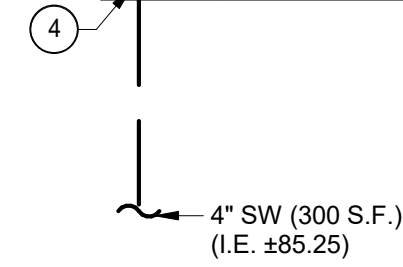
P101G
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

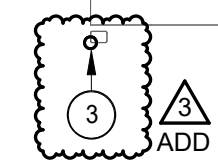
PARTIAL 01 FLOOR PLAN - AREA G
1/8" = 1'-0"

KEY PLAN

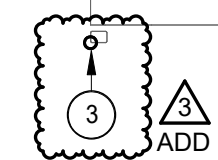




TICKET BOOTH - PART PLAN
1/4" = 1'-0"



CONCESSIONS - PART PLAN
1/4" = 1'-0"



ROOF PLAN - CONCESSIONS
1/4" = 1'-0"

- ALBA** ENGINEERING, INC.

 303 INTERNATIONAL CIRCLE, SUITE 450
 HUNT VALLEY, MD 21030 410 842 6411
 WWW.ALBANENGINEERING.COM
 P.N. 2105
- THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE
 THE PROPERTY OF ALBA ENGINEERING, INC. AND ARE NOT TO BE REPRODUCED OR
 REUSED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF
 ALBA ENGINEERING, INC. COPYRIGHT © 2003

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT
THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 45531,
EXPIRATION DATE: 06-03-2034"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G+p
GRIMM + PARKER
ARCHITECTS

GP #22105

OUTBUILDINGS - CONCESSIONS AND TICKET BOOTH

NORTH EAST MIDDLE / HIGH SCHOOL
2881 PANCOAST AVENUE, ASTON, PA 19014

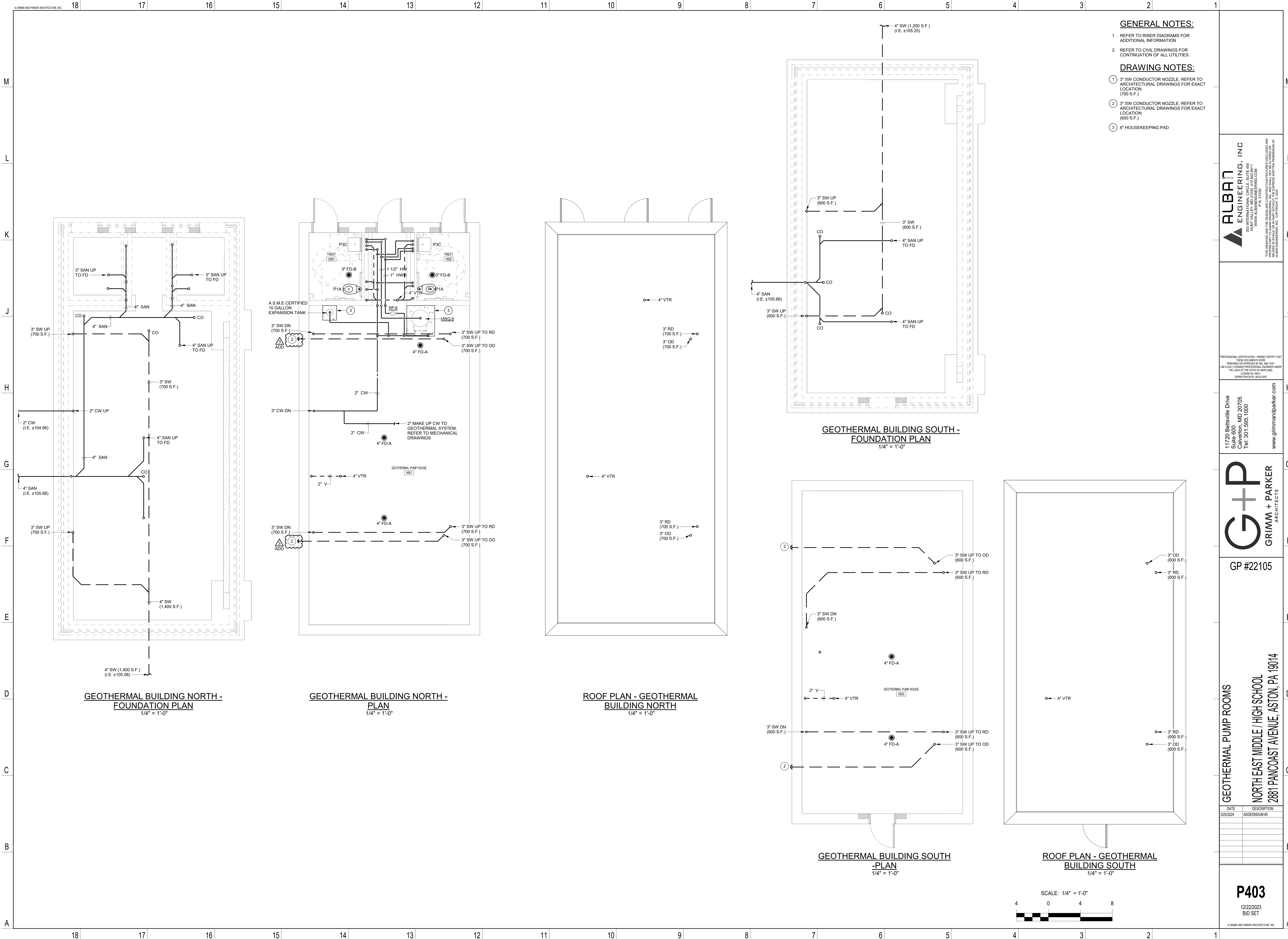
DATE	DESCRIPTION
3/25/2024	ADDEDNDUM #3

P401
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

SCALE: 1/4" = 1'-0"





GENERAL NOTES:

- 1. REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION
- 2. REFER TO CIVIL DRAWINGS FOR CONTINUATION OF ALL UTILITIES.

DRAWING NOTES:

- ① 3" SW CONDUCTOR NOZZLE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION (700 S.F.)
- ② 3" SW CONDUCTOR NOZZLE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION (600 S.F.)
- ③ 6" HOUSEKEEPING PAD

ALBAN ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARRISBURG, PA 17105
P.A. 21035
WWW.ALBANENGINEERING.COM

THIS DRAWING IS THE PROPERTY OF ALBAN ENGINEERING, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 46511 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

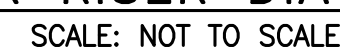
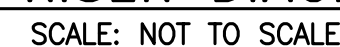
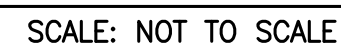
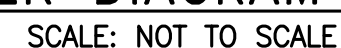
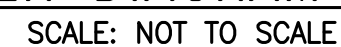
GP #22105

GEOTHERMAL PUMP ROOMS
NORTH EAST MIDDLE / HIGH SCHOOL
2881 PANCOAST AVENUE, ASTON, PA 19014

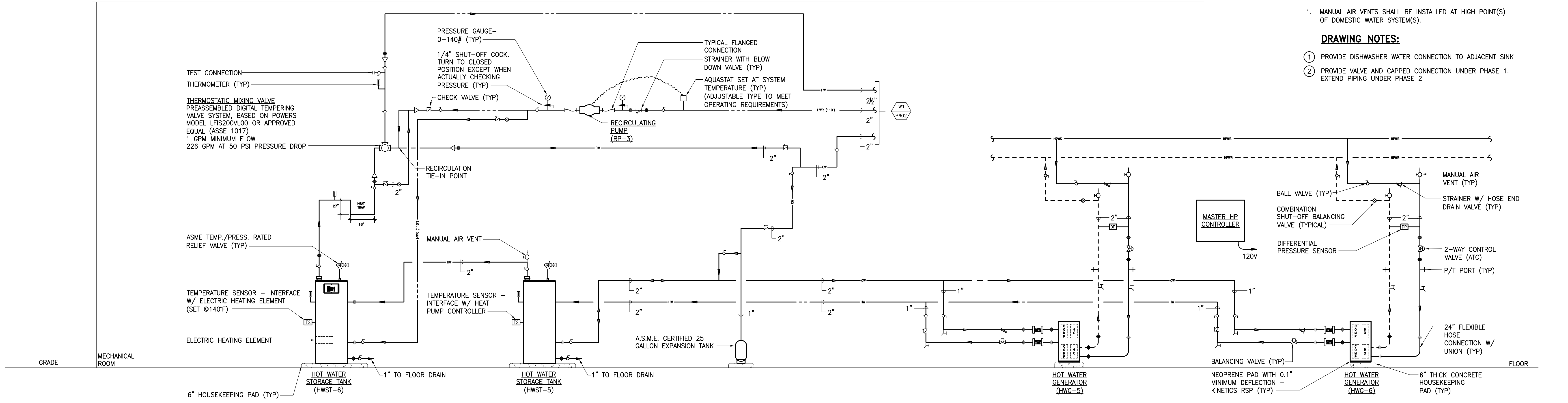
DATE	DESCRIPTION
3/25/2024	ADDED INDOOR #3

P403
12/22/2023
BID SET

① PROVIDE DISHWASHER WATER CONNECTION TO ADJACENT SINK

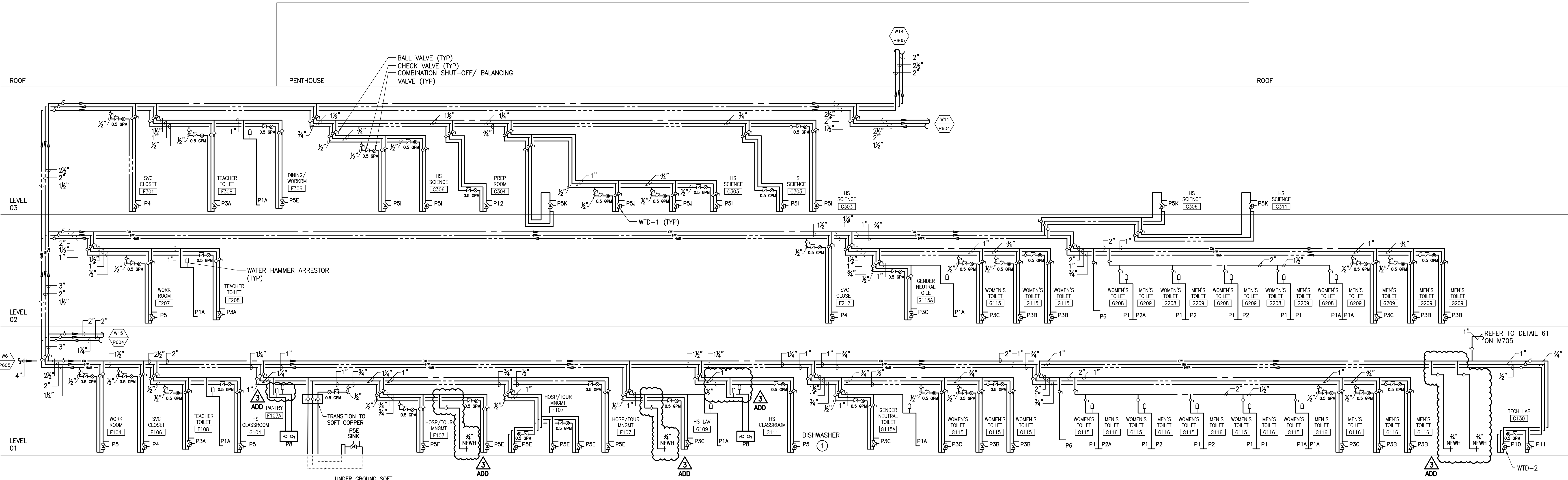


© GRIMM AND PARKER ARCHITECTURE, INC.

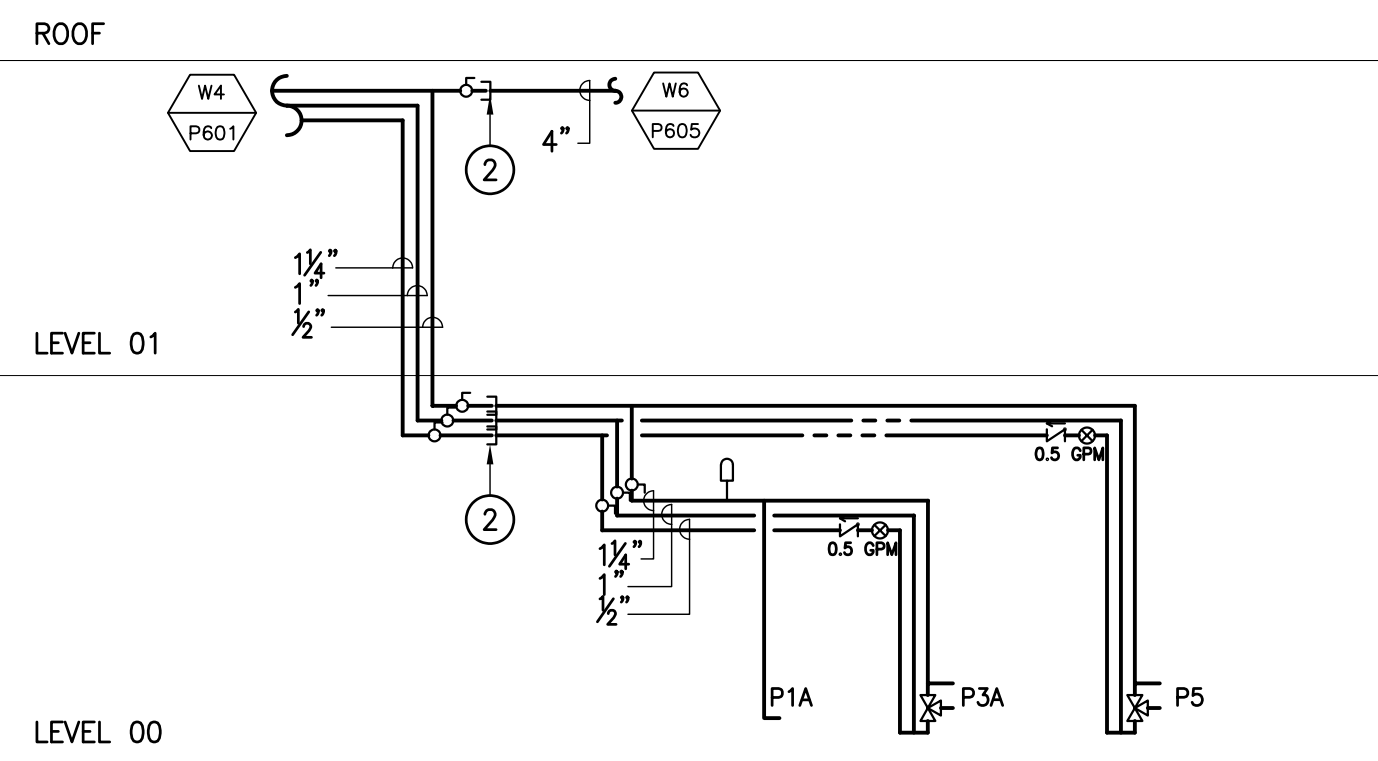


- NOTES:
1. REFER TO DOMESTIC WATER RISER DIAGRAMS FOR CONTINUATION TO BUILDING AND KITCHEN
 2. REFER TO HIGH SCHOOL PENTHOUSE FOR ADDITIONAL INFORMATION

DOMESTIC WATER RISER DIAGRAM
HIGH SCHOOL PENTHOUSE
SCALE: NOT TO SCALE



DOMESTIC WATER RISER DIAGRAM - AREAS F/G
SCALE: NOT TO SCALE



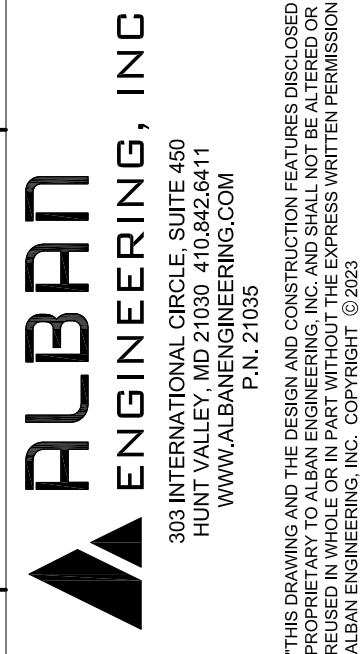
DOMESTIC WATER RISER DIAGRAM
AREA F
SCALE: NOT TO SCALE

GENERAL NOTES:

1. MANUAL AIR VENTS SHALL BE INSTALLED AT HIGH POINT(S) OF DOMESTIC WATER SYSTEM(S).

DRAWING NOTES:

- 1 PROVIDE DISHWASHER WATER CONNECTION TO ADJACENT SINK
- 2 PROVIDE VALVE AND CAPPED CONNECTION UNDER PHASE 1. EXTEND PIPING UNDER PHASE 2



PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 4001 EXPIRATION DATE: 06-30-2027

11720 Beltsville Drive
Suite 600, MD 20705
Call: 301.556.1000
Fax: 301.556.1000
www.grimmandparker.com

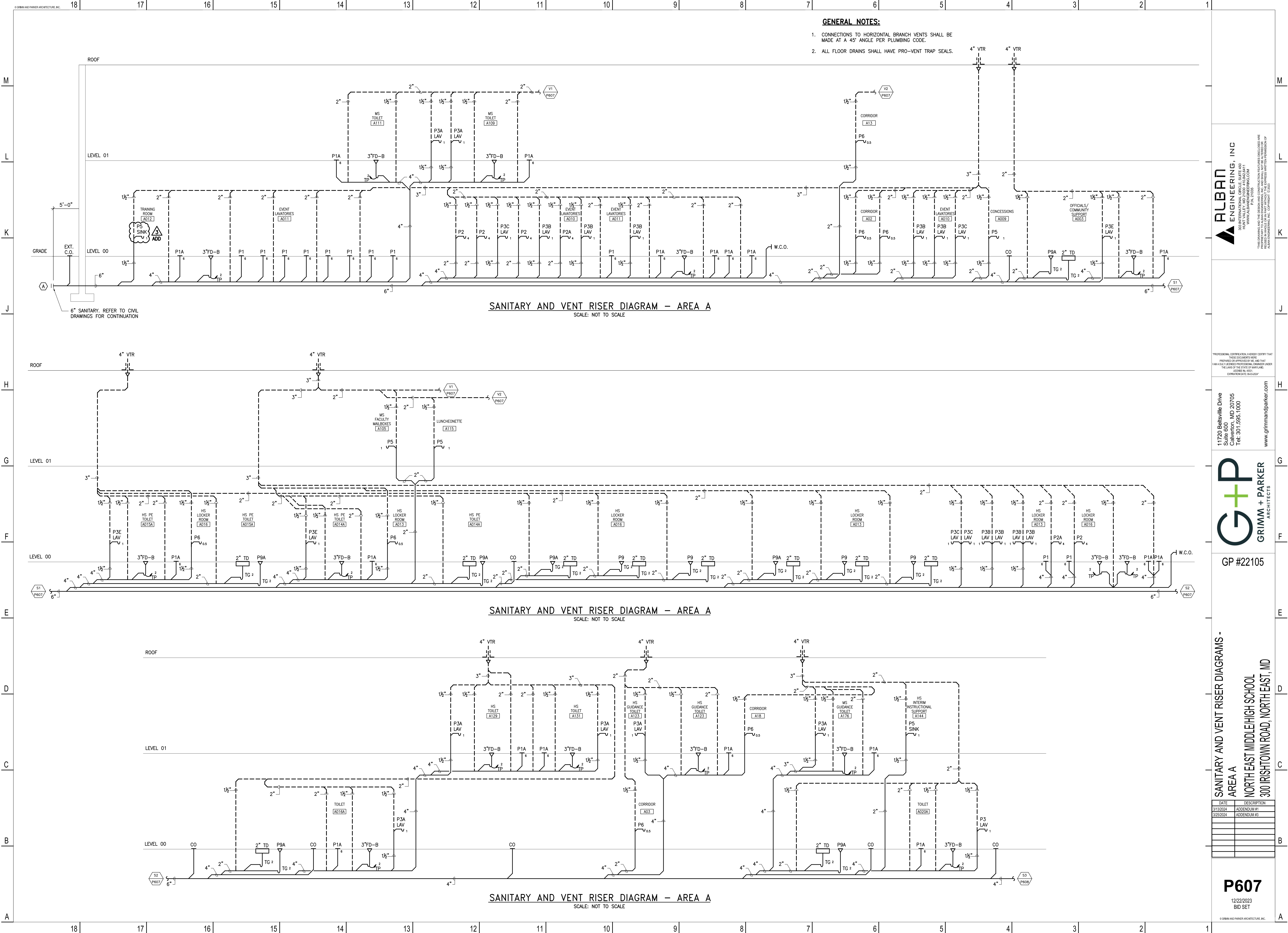


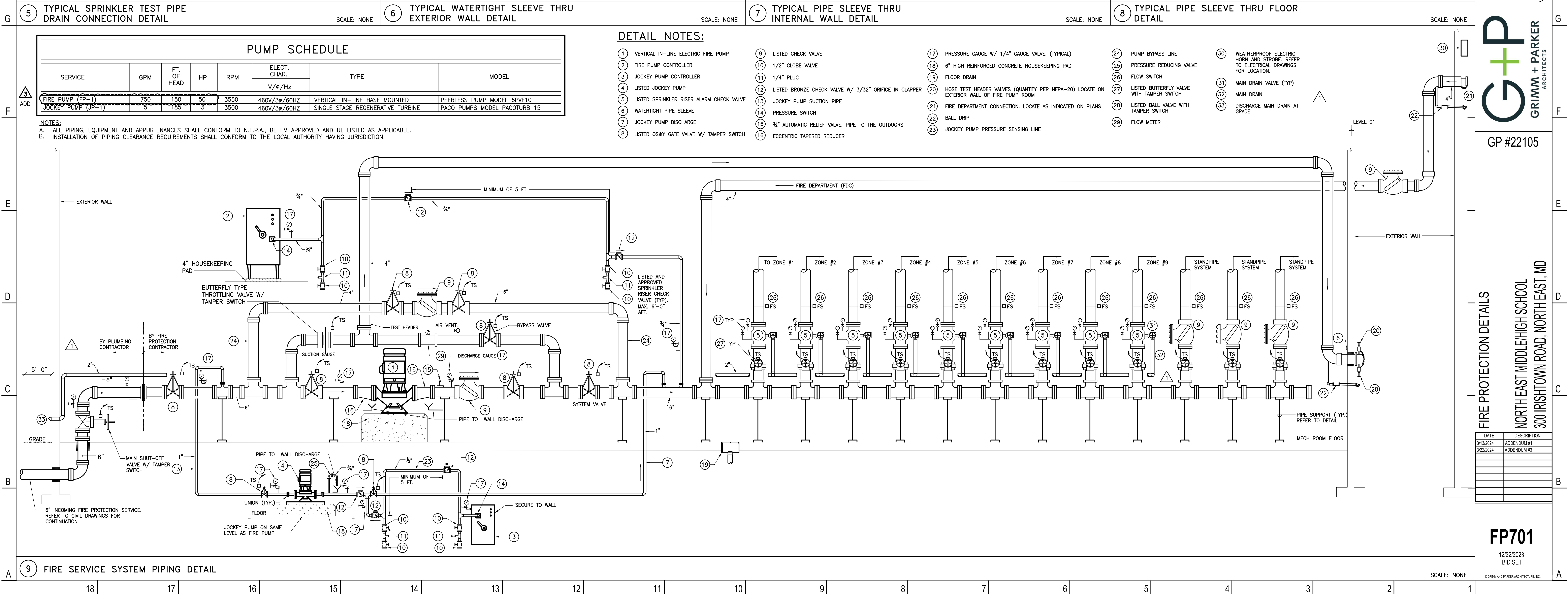
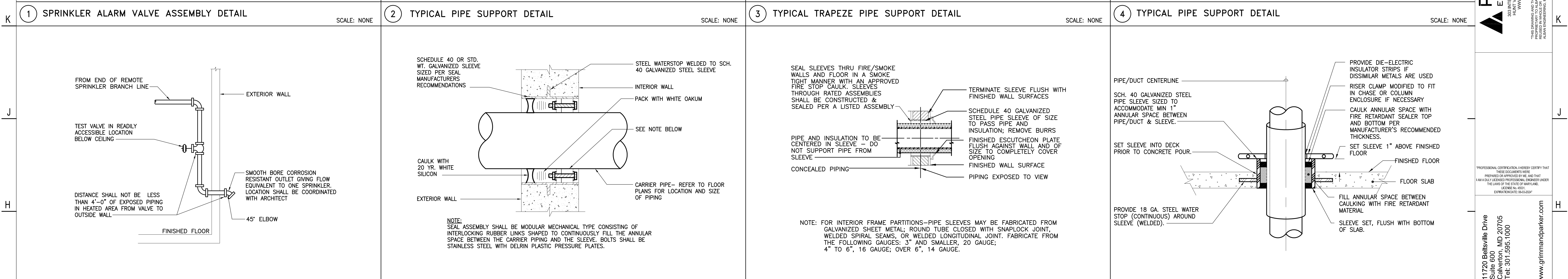
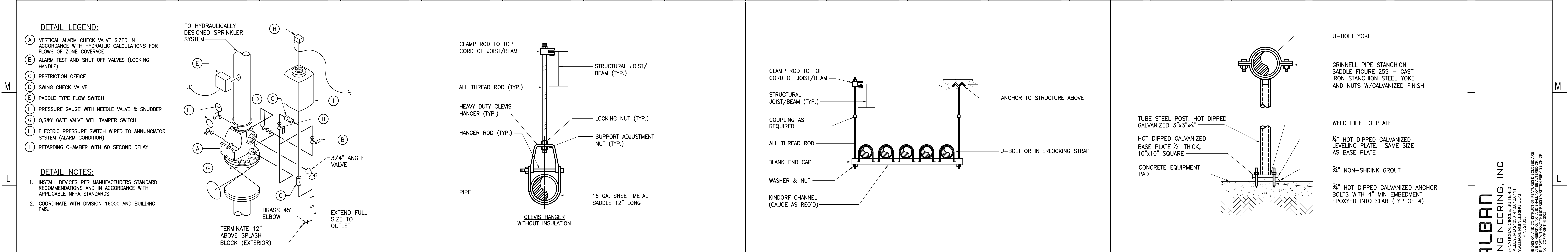
GP #22105

DOMESTIC WATER RISER DIAGRAMS -
AREA F/G
NORTH EAST MIDDLE HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/13/2024	ADDENDUM #1
3/25/2024	ADDENDUM #3

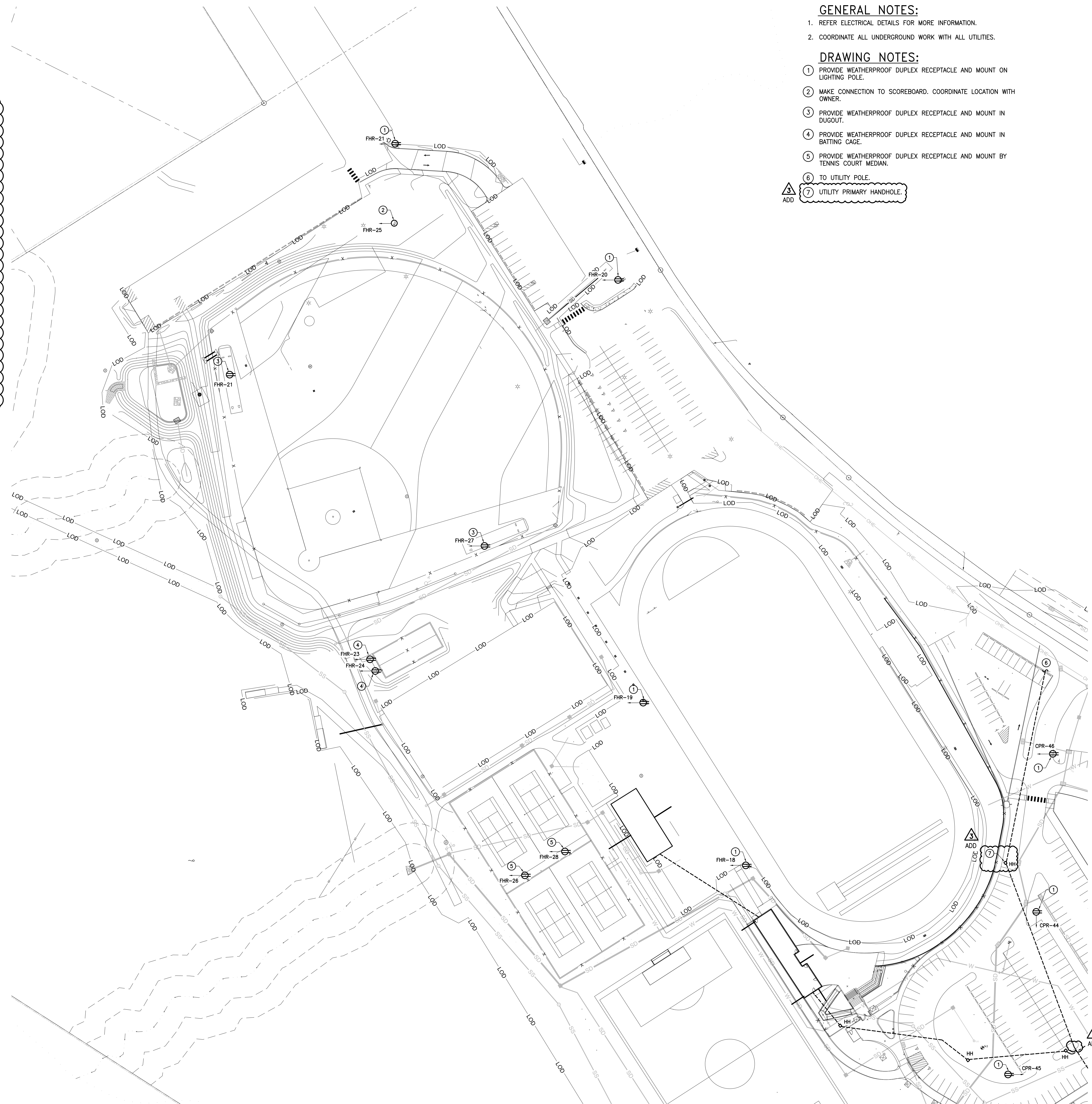
P605
12/22/2023
BID SET







- ③ UTILITY PRIMARY HANDHOLE.



SCALE: 1' = 50'-0"



303 INTERNATIONAL CIRCLE, SUITE 450
HUNT VALLEY, MD 21030 410.842.8411
WWW.ALBANENGINEERING.COM
P.N. 21035

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT
THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND.
LICENSE No. 45531,
EXPIRATION DATE: 06-03-2024"

11720 Beltsville Drive
Suite 600
Calverton, MD 20705

www.grimmandparker.com



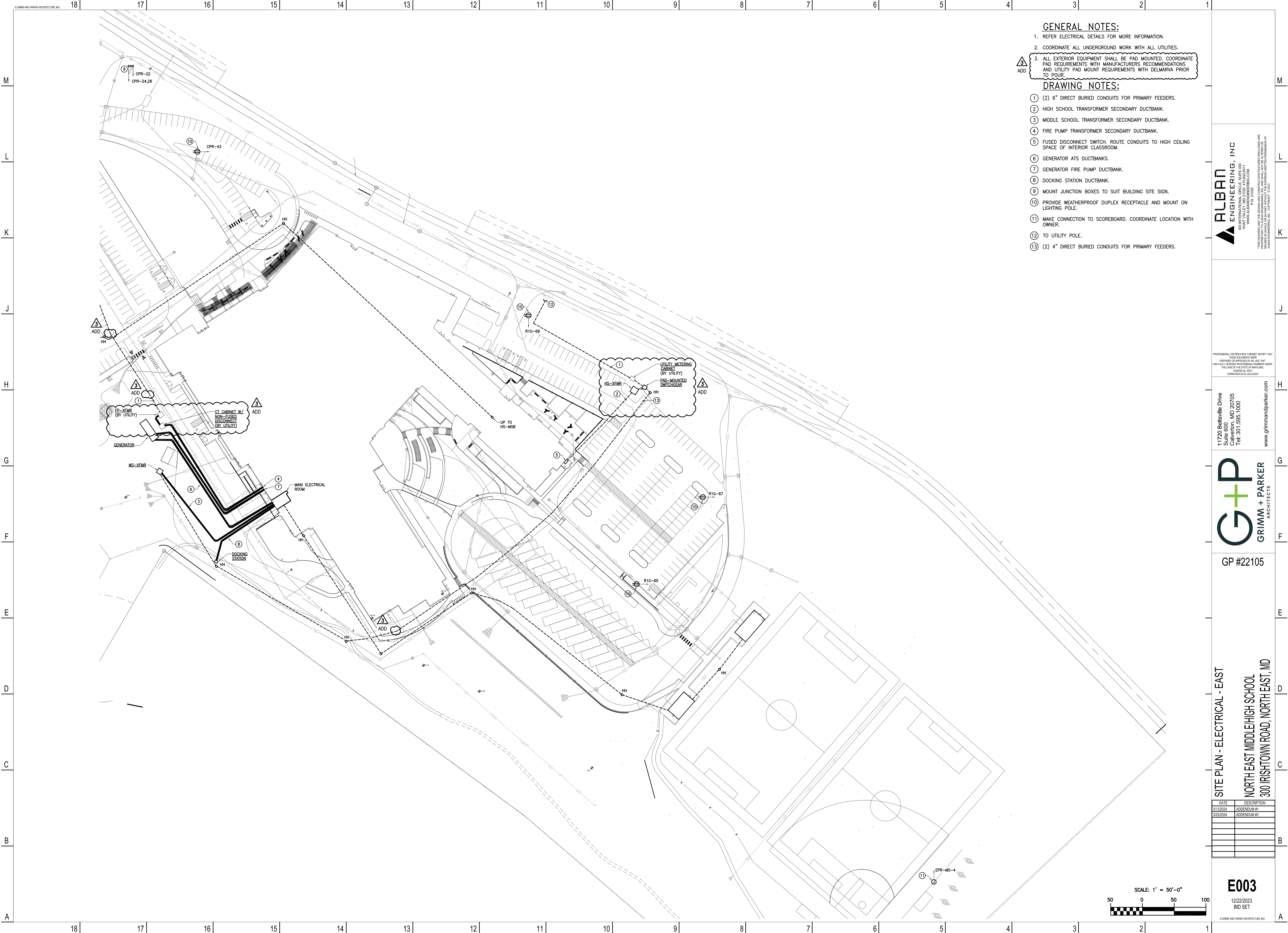
GP #22105

SITE PLAN - ELECTRICAL - WEST

[illegible]

E002
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.



GENERAL NOTES:

1. REFER ELECTRICAL DETAILS FOR MORE INFORMATION.
2. COORDINATE ALL UNDERGROUND WORK WITH ALL UTILITIES.
3. ALL EXTERIOR EQUIPMENT SHALL BE PAD MOUNTED. COORDINATE PAD REQUIREMENTS WITH MANUFACTURERS RECOMMENDATIONS AND UTILITY PAD MOUNT REQUIREMENTS WITH DELMARVA PRIOR TO POUR.

DRAWING NOTES:

- 1 (2) 6" DIRECT BURIED CONDUITS FOR PRIMARY FEEDERS.
- 2 HIGH SCHOOL TRANSFORMER SECONDARY DUCTBANK.
- 3 MIDDLE SCHOOL TRANSFORMER SECONDARY DUCTBANK.
- 4 FIRE PUMP TRANSFORMER SECONDARY DUCTBANK.
- 5 FUSED DISCONNECT SWITCH. ROUTE CONDUITS TO HIGH CEILING SPACE OF INTERIOR CLASSROOM.
- 6 GENERATOR ATS DUCTBANKS.
- 7 GENERATOR FIRE PUMP DUCTBANK.
- 8 DOCKING STATION DUCTBANK.
- 9 MOUNT JUNCTION BOXES TO SUIT BUILDING SITE SIGN.
- 10 PROVIDE WEATHERPROOF DUPLEX RECEPTACLE AND MOUNT ON LIGHTING POLE.
- 11 MAKE CONNECTION TO SCOREBOARD. COORDINATE LOCATION WITH OWNER.
- 12 TO UTILITY POLE.
- 13 (2) 4" DIRECT BURIED CONDUITS FOR PRIMARY FEEDERS.

ALBAN
ENGINEERING, INC.

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 4051 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600, MD 20705
Call: 301.595.1000
Fax: 301.595.1000
www.grimmandparker.com

GP
GRIMM + PARKER
ARCHITECTS

GP #22105

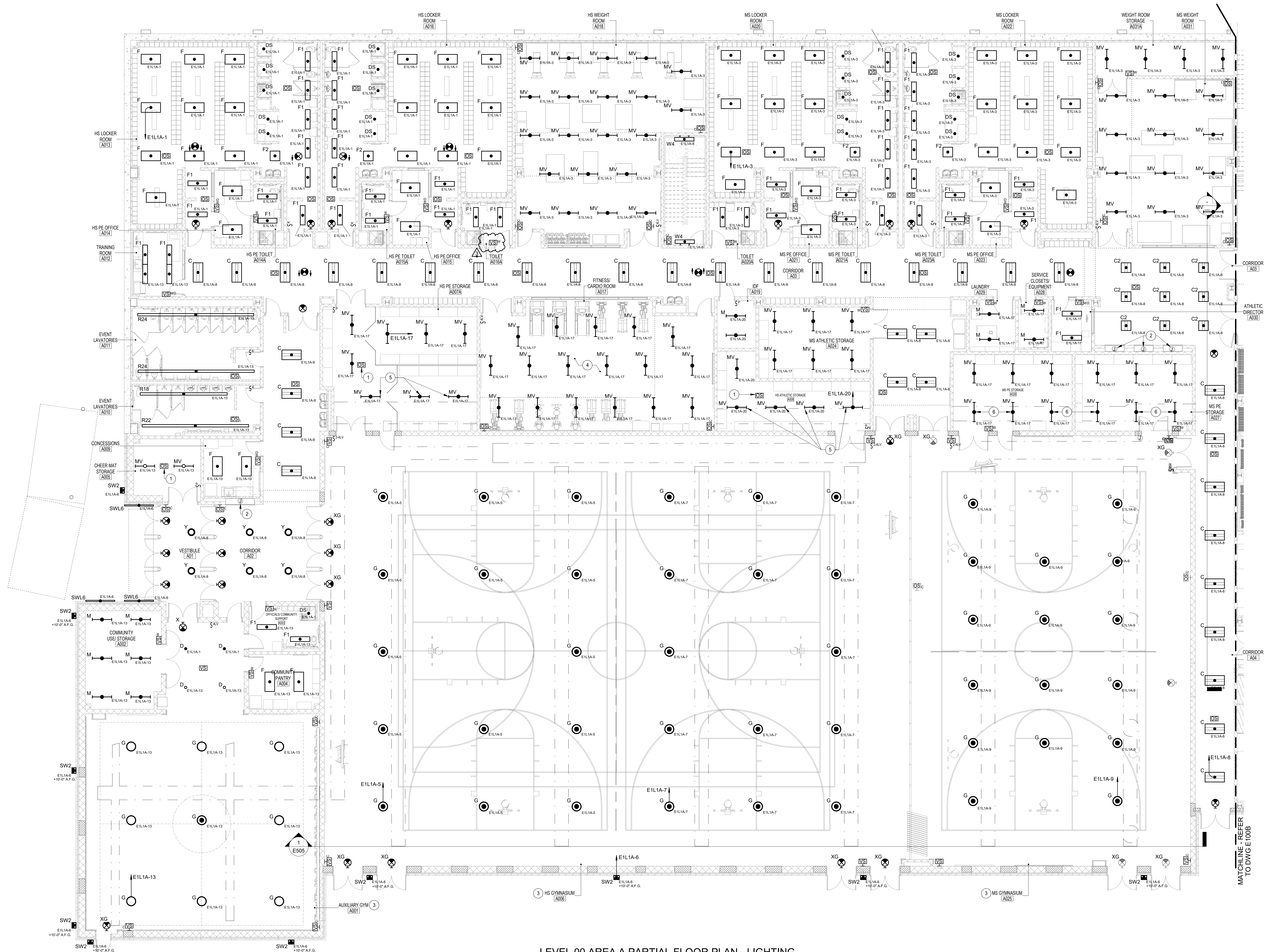
SITE PLAN - ELECTRICAL - EAST
NORTH EAST MIDDLE HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/13/2024	ADDENDUM #1
3/25/2024	ADDENDUM #3

E003
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

- DRAWING NOTES:**
- 1) PROVIDE RIGID STEM SUSPENSION AND OUTLET BOX FOR MOUNTING OF CEILING MOUNT TYPE OCCUPANCY SENSOR. MOUNT JUST BELOW LIGHT FIXTURES TO AVOID SENSOR BLOCKAGE.
 - 2) REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR DISPLAY CASE POWER REQUIREMENTS. DISPLAY CASE POWER SHALL BE EXTEND THROUGH BLC SYSTEM. FOR DISPLAY CASE RECEPTACLE AND INTEGRAL LIGHTING PROVIDE BY DISPLAY CASE MANUFACTURER.
 - 3) PROVIDE ALL WALL MOUNTED SENSORS WITH WIRE CAGES. PROVIDE ALL LIGHTING CONTROL STATIONS WITH IN-USE COVERS. IN-USE COVER STYLE AND ASSOCIATED MOUNTED SHALL BE COORDINATED WITH ALL WALL TREATMENTS/PADDING PRIOR TO ROUGH-IN.
 - 4) MOUNT ALL LIGHT FIXTURES IN THIS SPACE FLUSH TO HARD CEILING OR BOTTOM OF LIGHT FIXTURE FLUSH WITH STRUCTURE. FIELD COORDINATE ALL LOCATIONS WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.
 - 5) MOUNT BOTTOM OF LIGHT FIXTURE FLUSH WITH BOTTOM OF DUCTWORK.
 - 6) MOUNT BOTTOM OF LIGHT FIXTURE TO SUSPENDED SUPPORT SYSTEM (THREAD ROD/C-CHANNEL OR OTHER APPROVED MOUNTING METHOD), BELOW DUCTWORK.
- GENERAL NOTES:**
1. U.O.N., ALL EXIT SIGNAGE INDICATED SHALL BE TYPE 'X'.
 2. ALL EXIT SIGNAGE SHALL HAVE AUDIBLE BUZZER ACTIVATED/POWERED VIA FIRE ALARM SYSTEM.
 3. REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR PLUG LOAD CONTROL SYSTEM(S). PLUG LOAD CONTROLS ARE NOT PART OF LIGHTING SYSTEM CONTROLS.



LEVEL 00 AREA A PARTIAL FLOOR PLAN - LIGHTING
1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

KEY PLAN

DATE: 12/25/2024
DESCRIPTION: ADDENDUM #3

E100A
12/25/2023
BID SET

ALBAN ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HAWAII, HONOLULU, HI 96813
WWW.ALBANENGINEERING.COM
P.O. BOX 21030
HONOLULU, HI 96821

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF HAWAII. LICENSE NO. 4801 EXPIRATION DATE: 06/30/2027

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

G+P GRIMM + PARKER ARCHITECTS

GP #22105

LEVEL 00 AREA A PARTIAL FLOOR PLAN - LIGHTING
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

© GRIMM AND PARKER ARCHITECTURE, INC.

- GENERAL NOTES:**
1. U.O.N., ALL EXIT SIGNAGE INDICATED SHALL BE TYPE 'X'.
 2. ALL EXIT SIGNAGE SHALL HAVE AUDIBLE BUZZER ACTIVATED/POWERED VIA FIRE ALARM SYSTEM.
 3. REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR PLUG LOAD CONTROL SYSTEM(S). PLUG LOAD CONTROLS ARE NOT PART OF LIGHTING SYSTEM CONTROLS.
- DRAWING NOTES:**
- 1 REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR DISPLAY CASE POWER REQUIREMENTS. DISPLAY CASE POWER SHALL BE EXTEND THROUGH BLC SYSTEM. FOR DISPLAY CASE RECEPTACLE AND INTEGRAL LIGHTING PROVIDE BY DISPLAY CASE MANUFACTURER.
 - 2 PROPOSED LOCATION FOR CORRIDOR A12 TWO ZONE ROOM CONTROLLER, WALL MOUNTED, ABOVE ACCESSIBLE CEILING. EXACT LOCATION TO BE COORDINATED WITH OWNERSHIP AT LIGHTING CONTROLS PRE-INSTALL MEETING. FOR FIELD BALANCING OF DIRECT AND INDIRECT COMPONENTS ONLY. CONNECTION TO BLC SYSTEM SHALL BE LOW VOLTAGE ONLY, BRANCH LIGHTING CIRCUIT DOES NOT PASS THROUGH RELAY PANEL.
 - 3 FOR BUILDING MOUNTED SELF ILLUMINATED SIGNAGE. FIELD VERIFY MOUNTING POINT LOCATION/CONDUIT PENETRATIONS WITH SIGN MANUFACTURER AND ARCHITECT PRIOR TO ROUGH-IN. EXTEND CIRCUIT THROUGH BLC SYSTEM FOR ON/OFF CONTROL.
 - 4 PROPOSED LOCATION OF REMOTE POWER SUPPLIES FOR TYPE 'SC' LIGHT FIXTURES, WALL MOUNTED ABOVE ACCESSIBLE CEILING. 0-10V. WIRING NOT REQUIRED TO THESE LIGHT FIXTURES.

ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
FALLS CHURCH, VA 22033
WWW.ALBANENGINEERING.COM
PA 21036

THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF ALBAN ENGINEERING, INC. AND ARE TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 4601. EXPIRATION DATE: 30-09-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

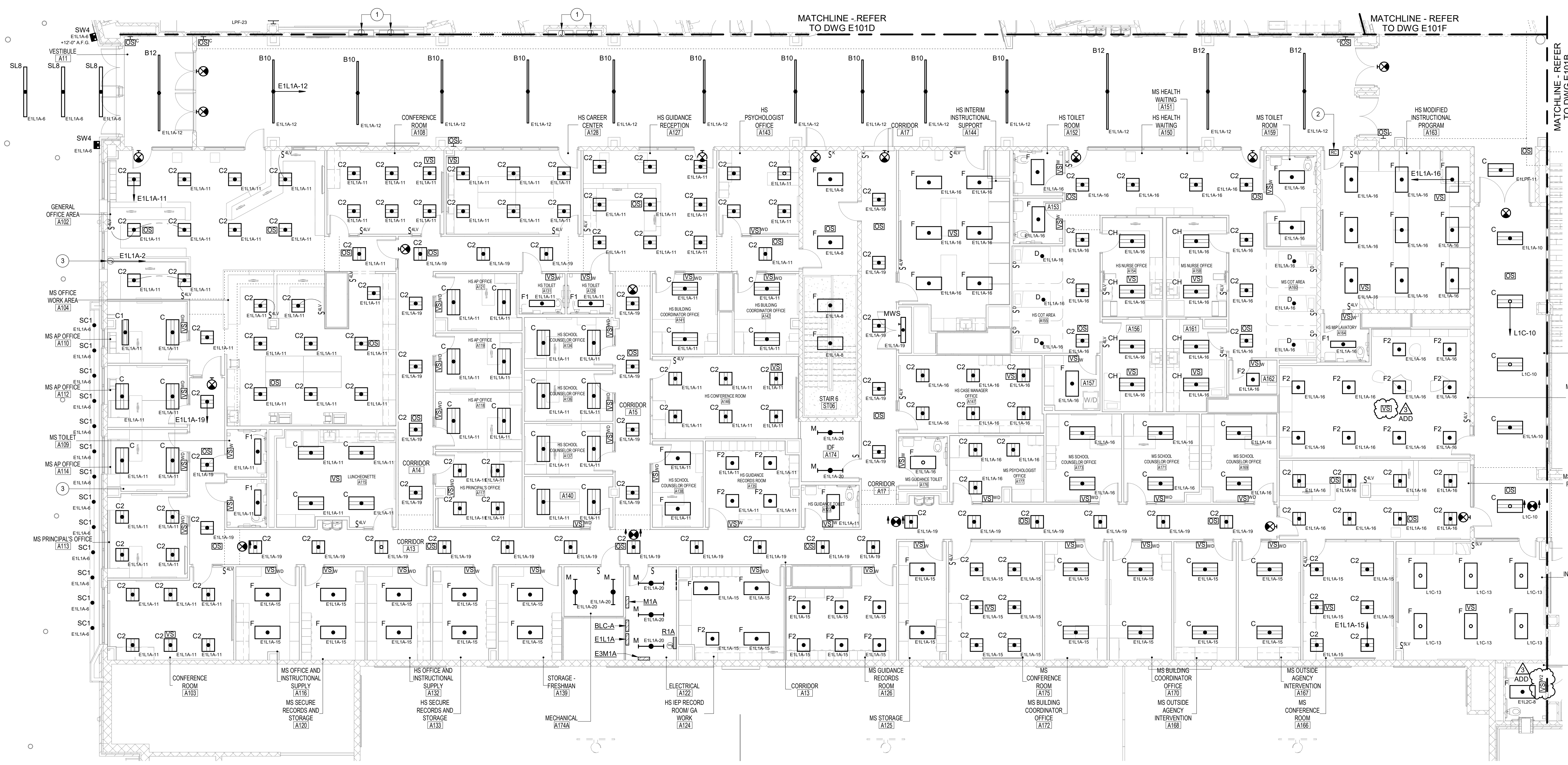


GP #22105

LEVEL 01 AREA A PARTIAL FLOOR PLAN - LIGHTING
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

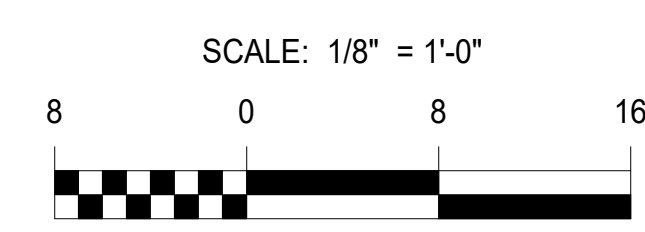
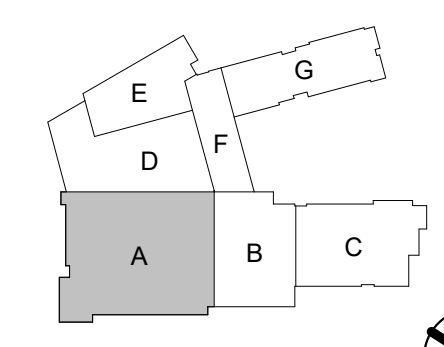
DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

E101A
12/22/2023
BID SET



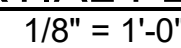
LEVEL 01 AREA A PARTIAL FLOOR PLAN - LIGHTING
1/8" = 1'-0"

KEY PLAN



3. REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR PLUG LOAD CONTROL SYSTEM(S). PLUG LOAD CONTROLS ARE NOT PART OF LIGHTING SYSTEM CONTROLS.

③ PART OF CORRIDOR B001 CONTROL ZONE



A diagram of a building floor plan with seven rooms labeled A through G. Room B is shaded gray. The layout is as follows: Room A is at the bottom left, Room B is to its right, and Room C is to the right of B. Above A and B is Room D. Above D is Room E. To the right of D and B is Room F. Above F is Room G.

THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO ALBION ENGINEERING, INC. AND SHALL NOT BE ALTERED OR REUSED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ALBION ENGINEERING, INC.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT
THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND,
LICENSE No. 45631,
EXPIRATION DATE: 06-03-2024*

111720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

www.grimmandparker.com



GP #22105

LEVEL 01 AREA B PARTIAL FLOOR PLAN - LIGHTING

NORTHEAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTHEAST, MD

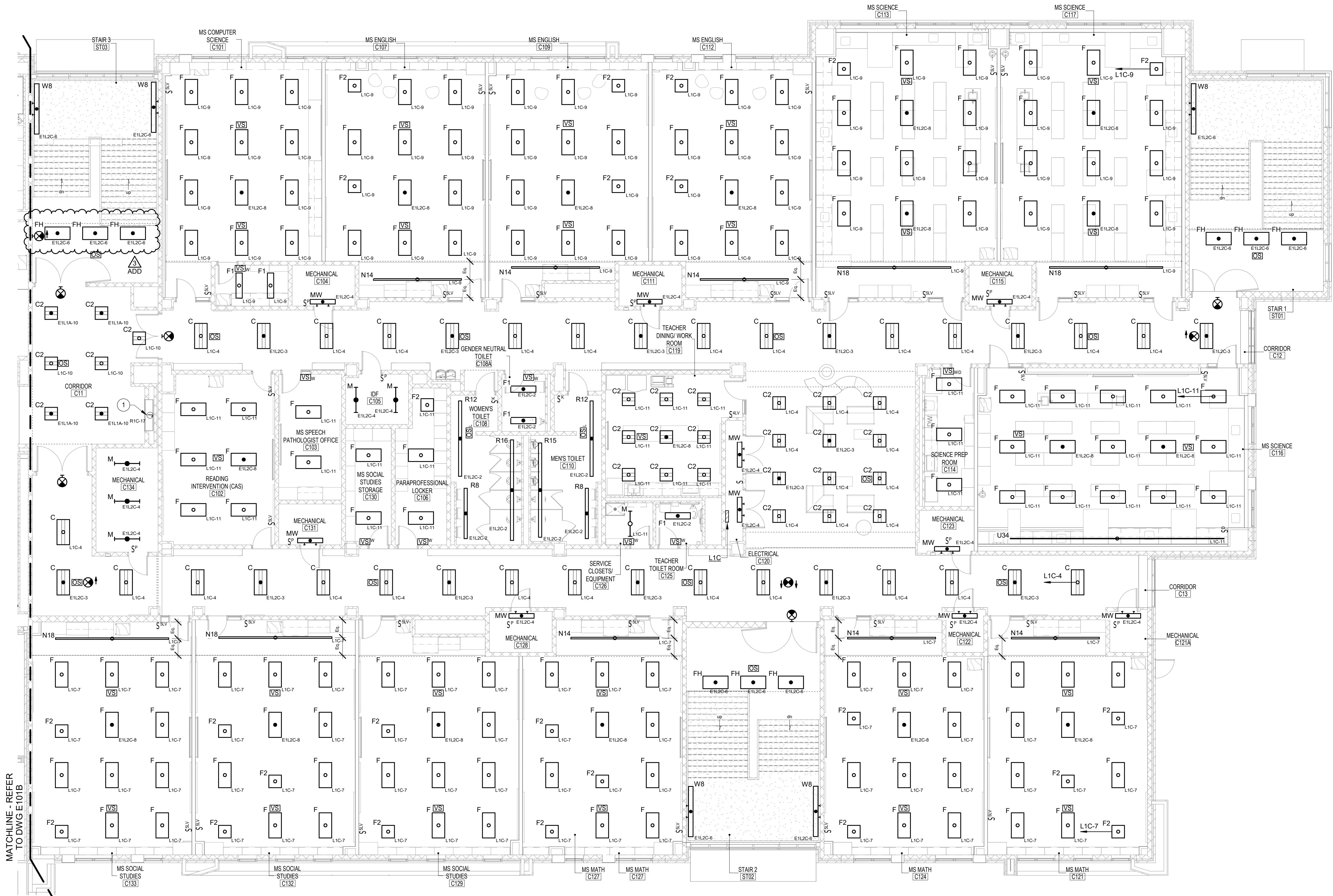
DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

F101B

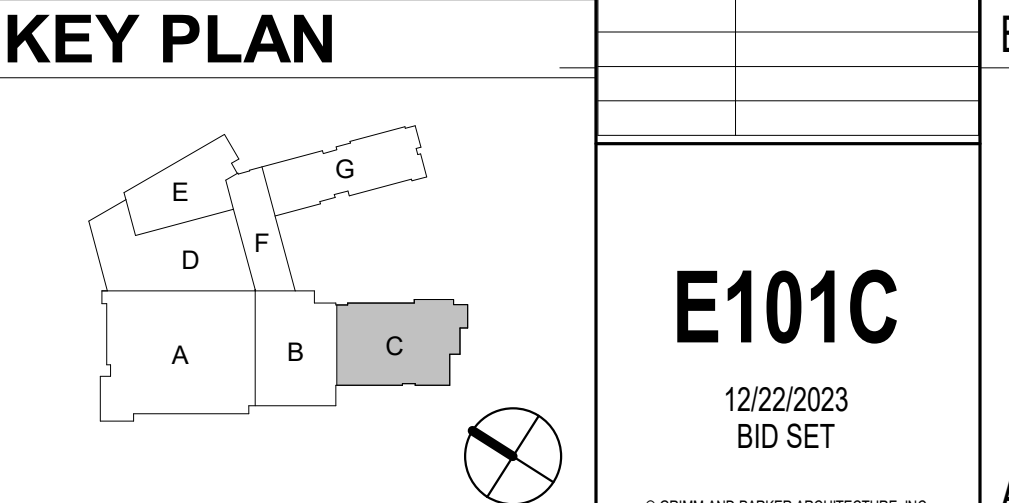
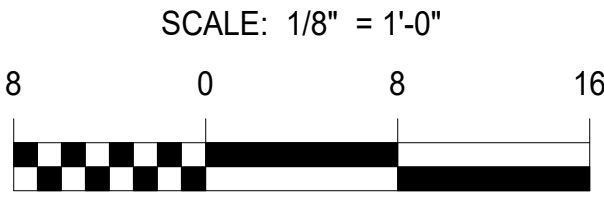
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

- GENERAL NOTES:**
1. U.O.N., ALL EXIT SIGNAGE INDICATED SHALL BE TYPE 'X'.
 2. ALL EXIT SIGNAGE SHALL HAVE AUDIBLE BUZZER ACTIVATED/POWERED VIA FIRE ALARM SYSTEM.
 3. REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR PLUG LOAD CONTROL SYSTEM(S). PLUG LOAD CONTROLS ARE NOT PART OF LIGHTING SYSTEM CONTROLS.
- DRAWING NOTES:**
1. REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR DISPLAY CASE POWER REQUIREMENTS. DISPLAY CASE POWER SHALL BE EXTEND THROUGH BLC SYSTEM. FOR DISPLAY CASE RECEPTACLE AND INTEGRAL LIGHTING PROVIDE BY DISPLAY CASE MANUFACTURER.



LEVEL 01 AREA C PARTIAL FLOOR PLAN - LIGHTING
1/8" = 1'-0"



ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
FARMERSVILLE, OHIO 43024
PH: 614.271.1111
WWW.ALBANENGINEERING.COM
P.N. 21035

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT
THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT
I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 4501
EXPIRATION DATE: 06/30/2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

G + P
GRIMM + PARKER
ARCHITECTS

GP #22105

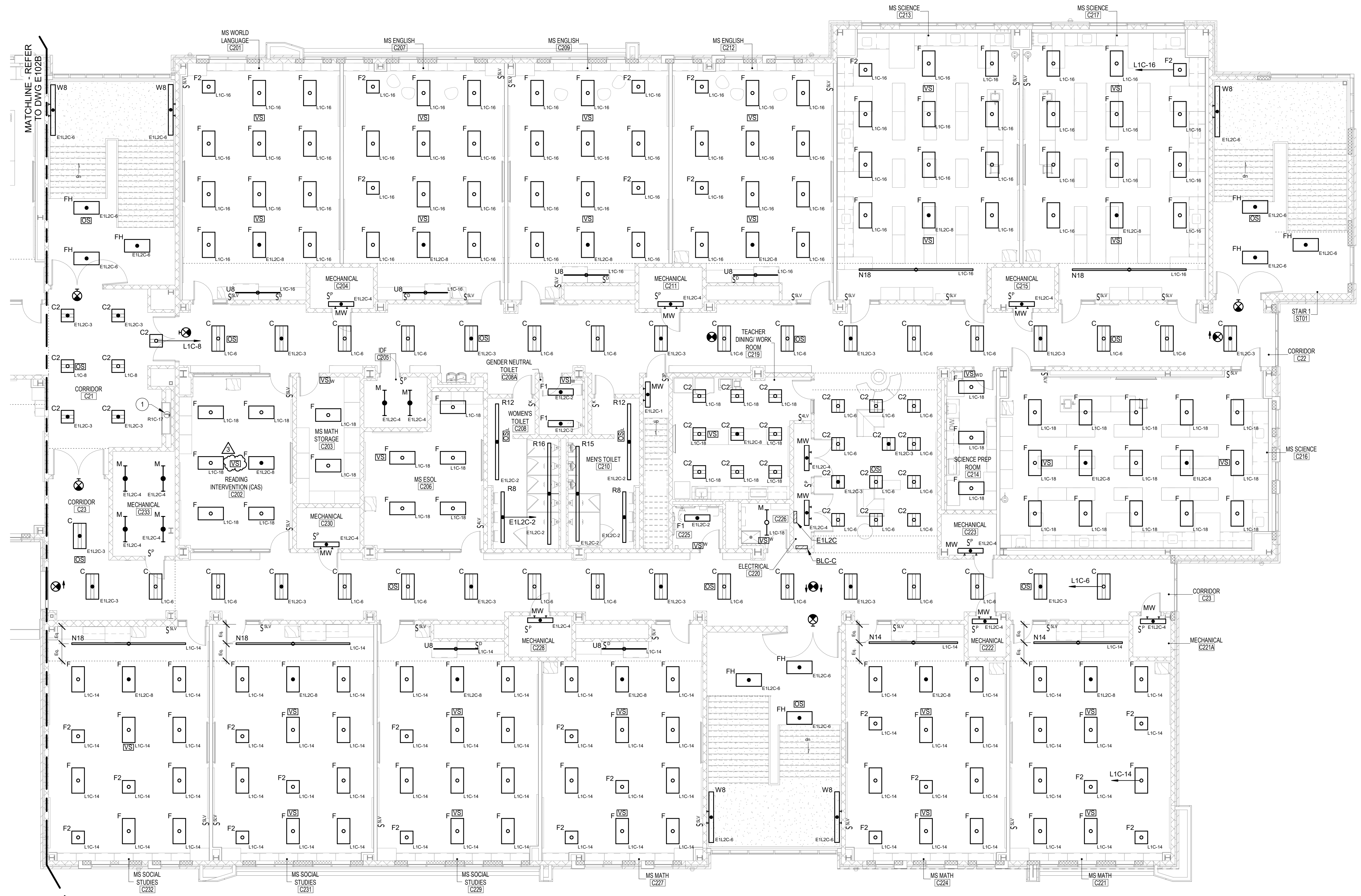
LEVEL 01 AREA C PARTIAL FLOOR PLAN - LIGHTING
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

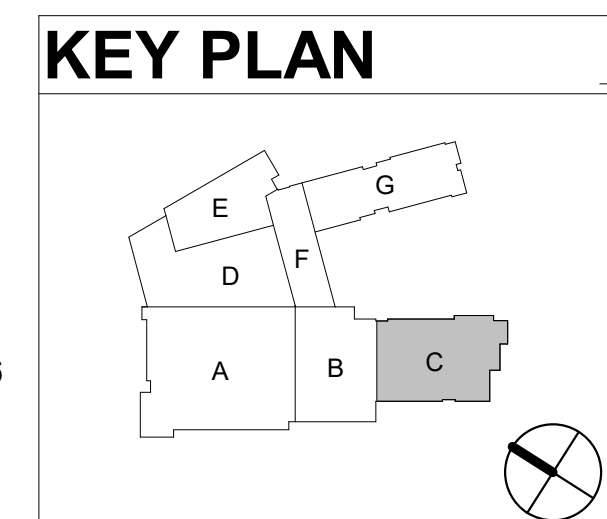
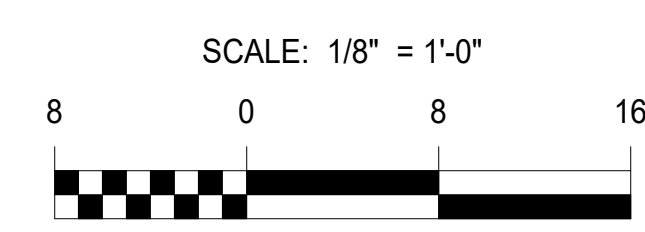
E101C
12/22/2023
BID SET

GENERAL NOTES:
1. U.O.N., ALL EXIT SIGNAGE INDICATED SHALL BE TYPE 'X'.
2. ALL EXIT SIGNAGE SHALL HAVE AUDIBLE BUZZER ACTIVATED/POWERED VIA FIRE ALARM SYSTEM.
3. REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR PLUG LOAD CONTROL SYSTEM(S). PLUG LOAD CONTROLS ARE NOT PART OF LIGHTING SYSTEM CONTROLS.

DRAWING NOTES:
1. REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR DISPLAY CASE POWER REQUIREMENTS. DISPLAY CASE POWER SHALL BE EXTEND THROUGH BLC SYSTEM. FOR DISPLAY CASE RECEPTACLE AND INTEGRAL LIGHTING PROVIDE BY DISPLAY CASE MANUFACTURER.



LEVEL 02 AREA C PARTIAL FLOOR PLAN - LIGHTING
1/8" = 1'-0"



ALBAN ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HAWTHORNE, MD 21050
WWW.ALBANENGINEERING.COM
P.N. 21030

THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF ALBAN ENGINEERING, INC. AND SHALL BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 4601. EXPIRATION DATE: 06/30/2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

LEVEL 02 AREA C PARTIAL FLOOR PLAN - LIGHTING
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

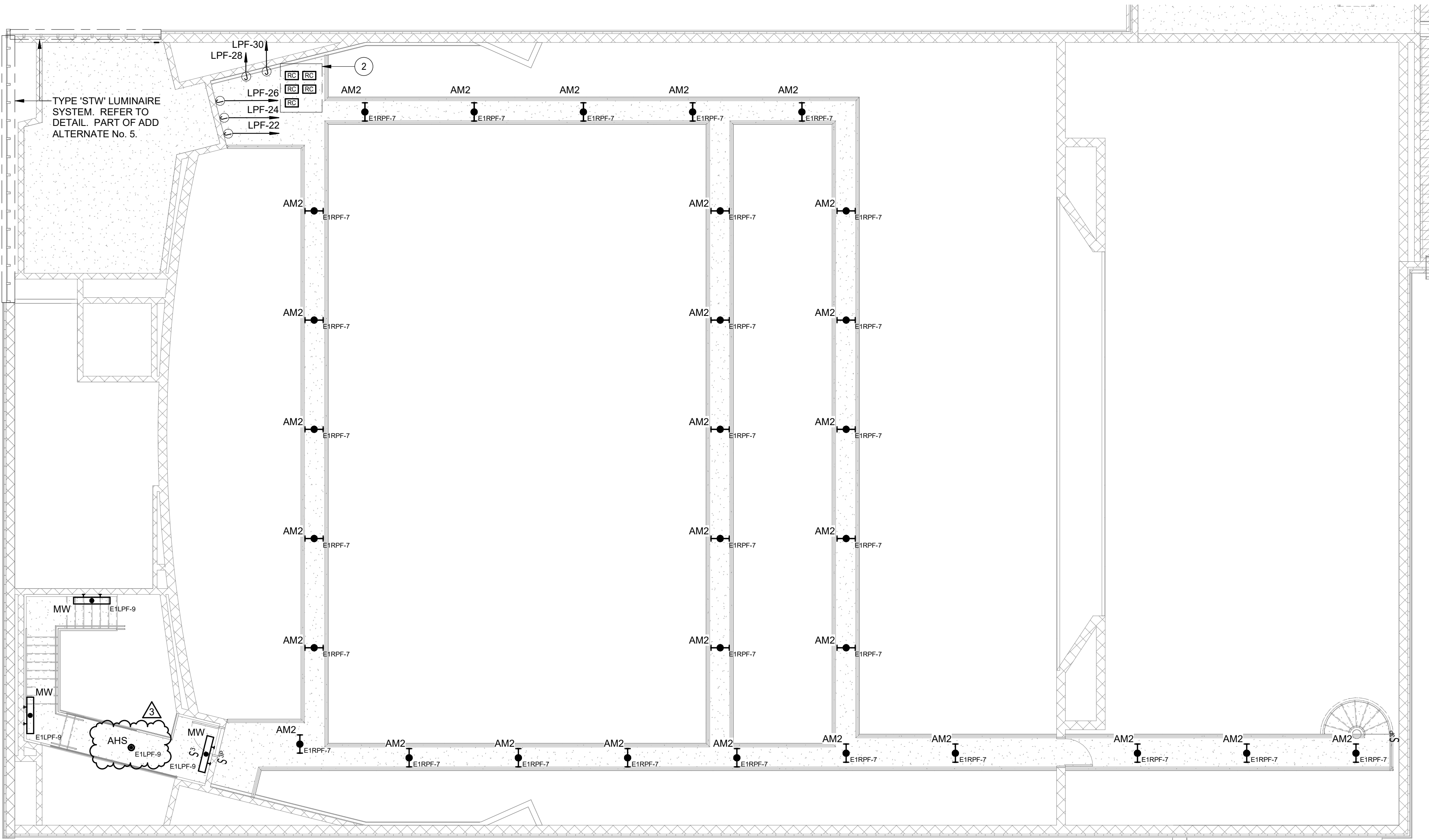
DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

E102C
12/22/2023
BID SET

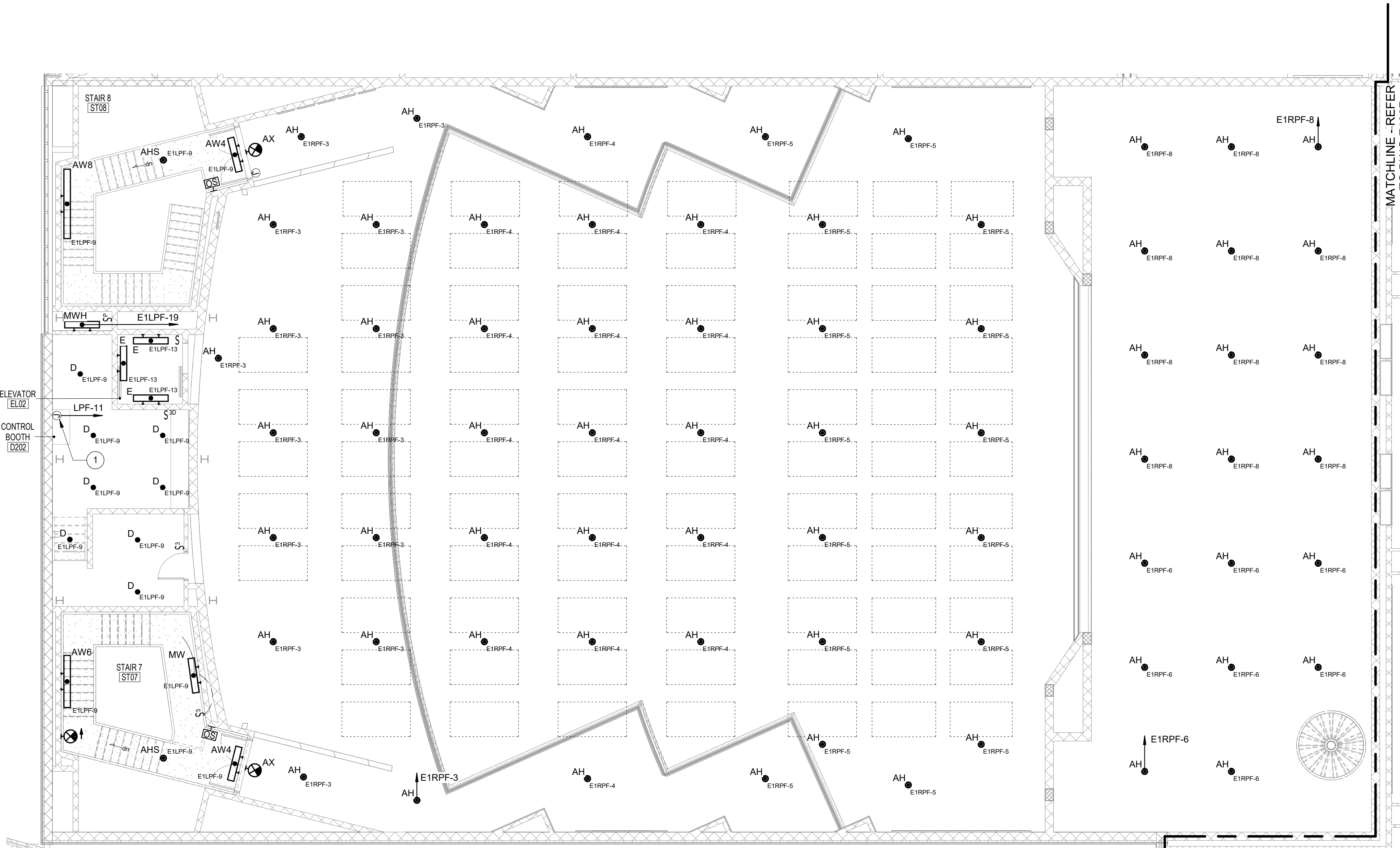
© GRIMM AND PARKER ARCHITECTURE, INC.

GENERAL NOTES:
1. ALL EXIT SIGNAGE SHALL HAVE AUDIBLE BUZZER ACTIVATED/POWERED VIA FIRE ALARM SYSTEM.

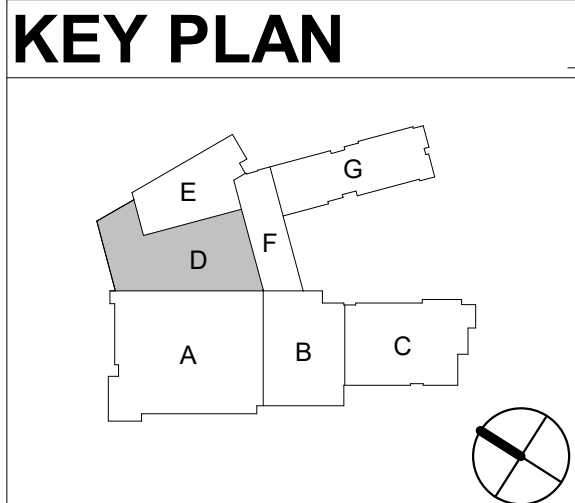
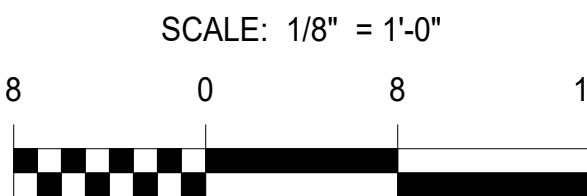
DRAWING NOTES:
1. FOR BUILDING MOUNTED SELF ILLUMINATED SIGNAGE. FIELD VERIFY MOUNTING POINT LOCATION/CONDUIT PENETRATIONS WITH SIGN MANUFACTURER AND ARCHITECT PRIOR TO ROUGH-IN. EXTEND CIRCUIT THROUGH BLC SYSTEM FOR ON/OFF CONTROL.
2. SINGLE ZONE ROOM CONTROLLER FOR TYPE 'STW' LIGHTING SYSTEM TO PROVIDE 0-10v DIMMING CONTROL. LINK ALL ROOM CONTROLLERS TO FUNCTION AS SINGLE ZONE. PROVIDE 2 BUTTON LOW VOLTAGE STATION WITH ENGRAVED BUTTONS (RAISE, LOWER). ROOM CONTROLLER MANUFACTURER SHALL VERIFY QUANTITY OF REQUIRED ROOM CONTROLLERS FOR 0-10v. OUTPUT CAPACITY FOR DIMMING OF ALL ASSOCIATED REMOTE POWER SUPPLIES SERVING LIGHTING SYSTEM, FLICKER FREE DOWN TO ~20%.



AUDITORIUM - CATWALK - LIGHTING
1/8" = 1'-0"



LEVEL 02 AREA D PARTIAL FLOOR PLAN - LIGHTING
1/8" = 1'-0"



ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
FARMERSVILLE, OHIO 43024
WWW.ALBANENGINEERING.COM
P.O. BOX 21030
COLUMBUS, OHIO 43221-0300
PH: 614.291.1100
FAX: 614.291.1101
THIS DRAWING IS THE PROPERTY OF ALBAN ENGINEERING, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 4501. EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

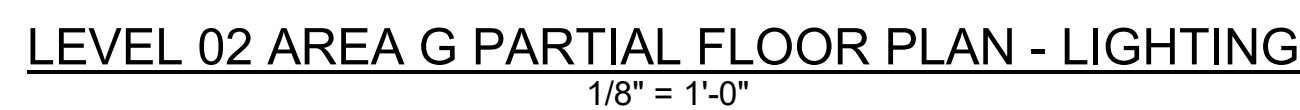
LEVEL 02 AREA D PARTIAL FLOOR PLAN - LIGHTING
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

E102D
12/22/2023
BID SET

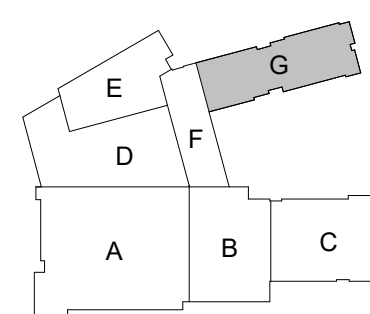
1. U.O.N., ALL EXIT SIGNAGE INDICATED SHALL BE TYPE 'X'.

2. ALL EXIT SIGNAGE SHALL HAVE AUDIBLE BUZZER ACTIVATED/POWERED VIA FIRE ALARM SYSTEM.
3. REFER TO ELECTRICAL DRAWINGS, E200 SERIES FOR PLUG LOAD CONTROL SYSTEM(S). PLUG LOAD CONTROLS ARE NOT PART OF LIGHTING SYSTEM CONTROLS.



1/8" = 1'-0"

KEY PLAN



SCALE: 1/8" = 1'-0"

A number line from 0 to 1. The segment from 0 to 0.8 is divided into 10 equal parts, with alternating black and white squares. The segment from 0.8 to 1 is solid black.



ALBAN
ENGINEERING, INC.

THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO ALBAN ENGINEERING, INC. AND SHALL NOT BE ALTERED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ALBAN ENGINEERING, INC.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT
THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND,
LICENSE No. 45631,
EXPIRATION DATE: 06/01/2004

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



GP #22105

LEVEL 02 AREA G PARTIAL FLOOR PLAN - LIGHTING

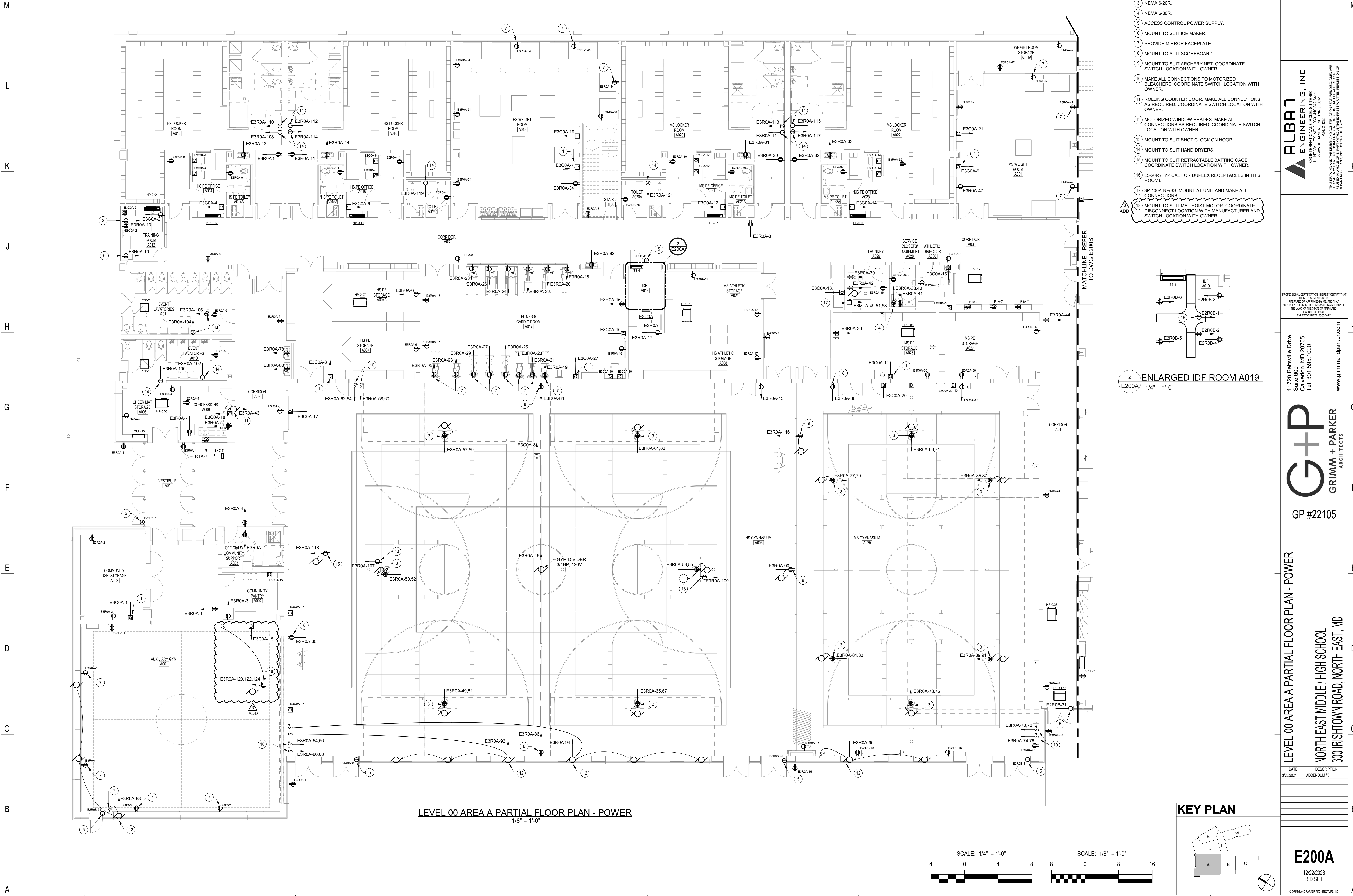
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRIS TOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

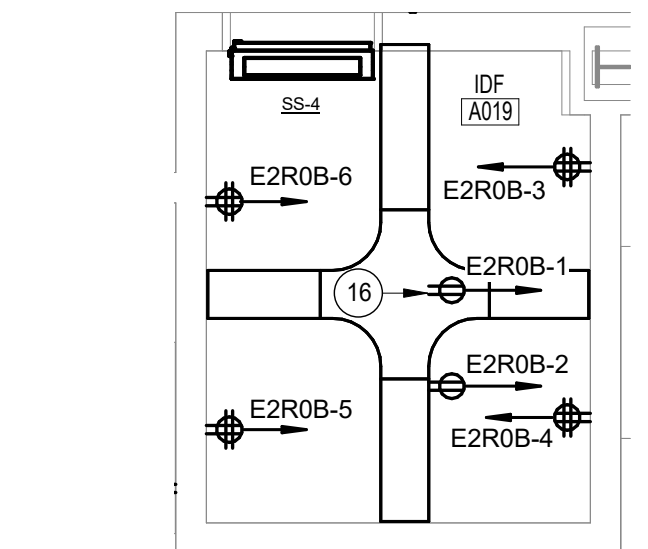
E102G

12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

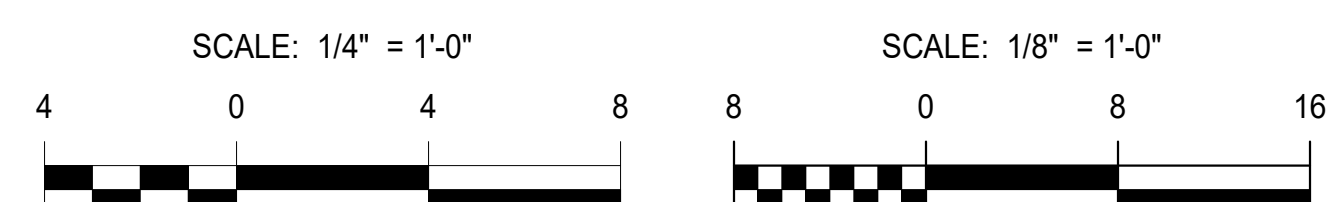
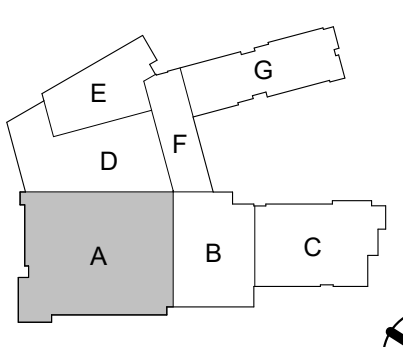


- GENERAL NOTES:**
1. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR MORE INFORMATION.
- DRAWING NOTES:**
- 1 MOUNT TO SUIT SOUND SYSTEM.
 - 2 MOUNT TO SUIT UNDERCOUNTER REFRIGERATOR.
 - 3 NEMA 6-20R.
 - 4 NEMA 6-30R.
 - 5 ACCESS CONTROL POWER SUPPLY.
 - 6 MOUNT TO SUIT ICE MAKER.
 - 7 PROVIDE MIRROR FACEPLATE.
 - 8 MOUNT TO SUIT SCOREBOARD.
 - 9 MOUNT TO SUIT ARCHERY NET. COORDINATE SWITCH LOCATION WITH OWNER.
 - 10 MAKE ALL CONNECTIONS TO MOTORIZED BLEACHERS. COORDINATE SWITCH LOCATION WITH OWNER.
 - 11 ROLLING COUNTER DOOR. MAKE ALL CONNECTIONS AS REQUIRED. COORDINATE SWITCH LOCATION WITH OWNER.
 - 12 MOTORIZED WINDOW SHADES. MAKE ALL CONNECTIONS AS REQUIRED. COORDINATE SWITCH LOCATION WITH OWNER.
 - 13 MOUNT TO SUIT SHOT CLOCK ON HOOP.
 - 14 MOUNT TO SUIT HAND DRYERS.
 - 15 MOUNT TO SUIT RETRACTABLE BATTING CAGE. COORDINATE SWITCH LOCATION WITH OWNER.
 - 16 L5-20R (TYPICAL FOR DUPLEX RECEPTACLES IN THIS ROOM).
 - 17 3P-100A-NF/SS. MOUNT AT UNIT AND MAKE ALL CONNECTIONS.
 - 18 MOUNT TO SUIT MAT HOIST MOTOR. COORDINATE DISCONNECT LOCATION WITH MANUFACTURER AND SWITCH LOCATION WITH OWNER.



2 ENLARGED IDF ROOM A019
E200A 1/4" = 1'-0"

KEY PLAN



ALBAN ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
FARMERSVILLE, OHIO 43021
WWW.ALBANENGINEERING.COM
P.A. 21035

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 48511 EXPIRATION DATE 06-30-2027

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

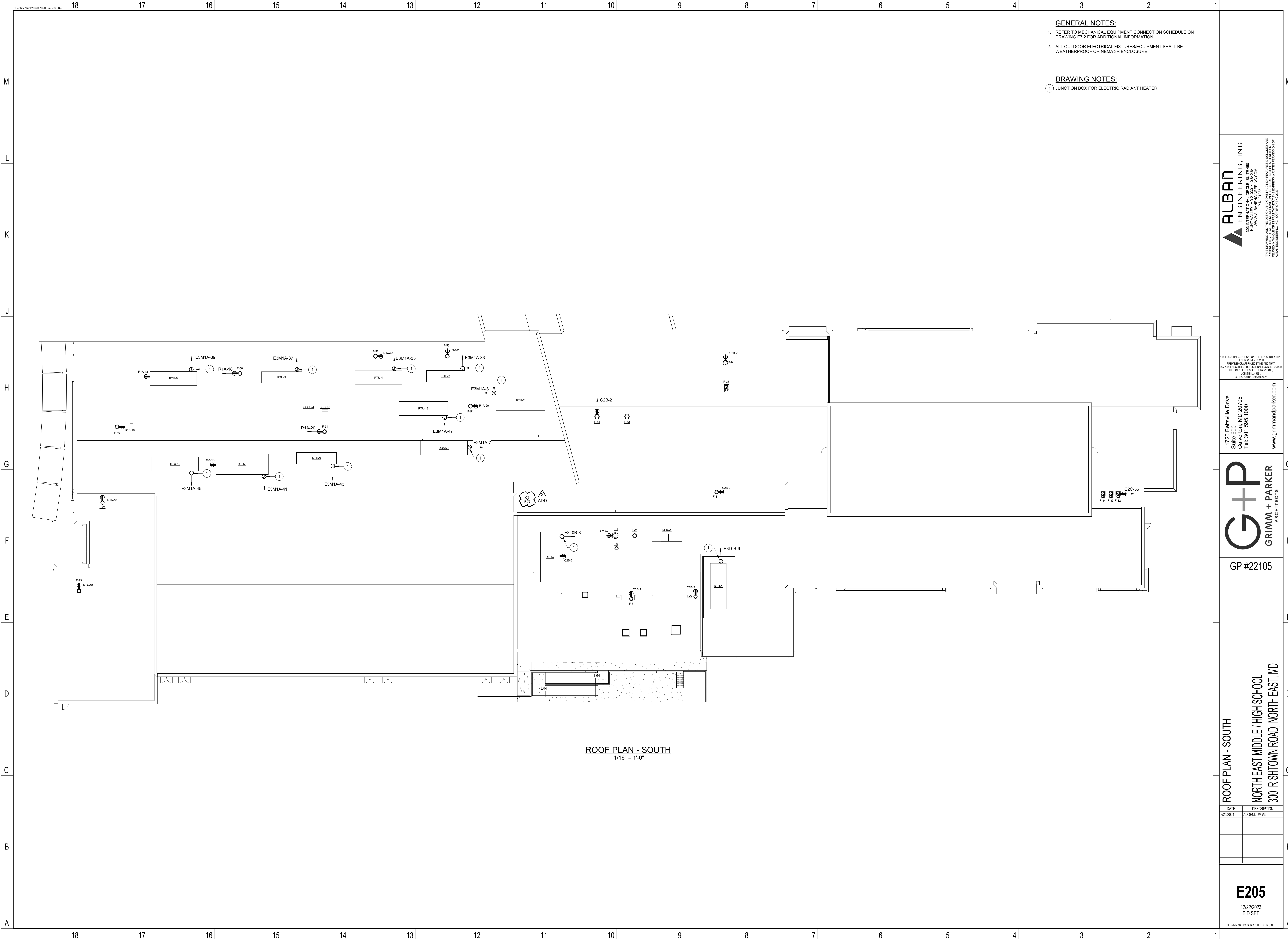
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

LEVEL 00 AREA A PARTIAL FLOOR PLAN - POWER
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

E200A
12/22/2023
BID SET



- GENERAL NOTES:**
1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E7.2 FOR ADDITIONAL INFORMATION.
 2. ALL OUTDOOR ELECTRICAL FIXTURES/EQUIPMENT SHALL BE WEATHERPROOF OR NEMA 3R ENCLOSURE.
- DRAWING NOTES:**
- 1 JUNCTION BOX FOR ELECTRIC RADIANT HEATER.

ALBAN ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARRISBURG, PENNSYLVANIA 17105
P.A. 21035
WWW.ALBANENGINEERING.COM

THIS DRAWING AND THE DESIGN AND CALCULATIONS THEREON ARE THE PROPERTY OF ALBAN ENGINEERING, INC. AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALBAN ENGINEERING, INC. COPYRIGHT © 2023

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 46501 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

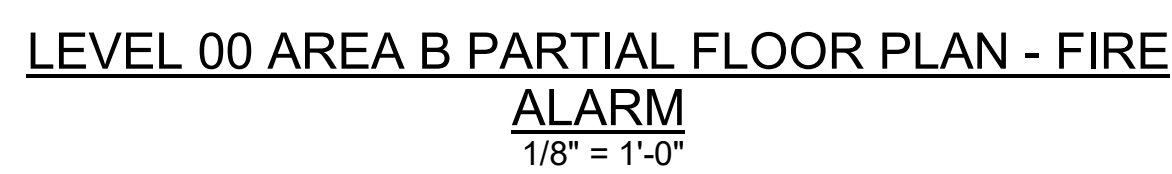
ROOF PLAN - SOUTH
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3


E205
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.

3 PROVIDE CONTROL MODULE TO SHUNT SOUND SYSTEM.

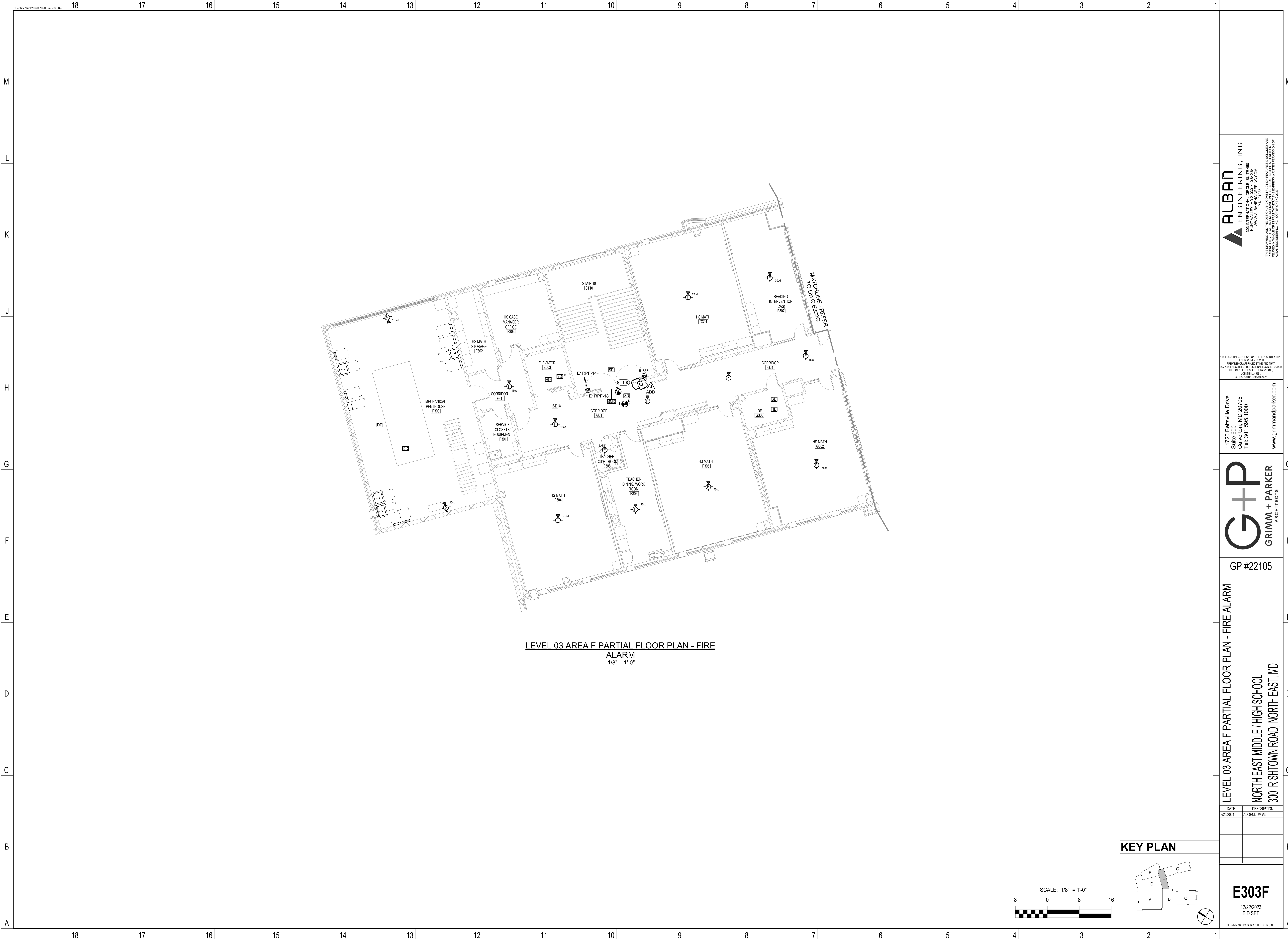
© GRIMM AND PARKER ARCHITECTURE, INC.



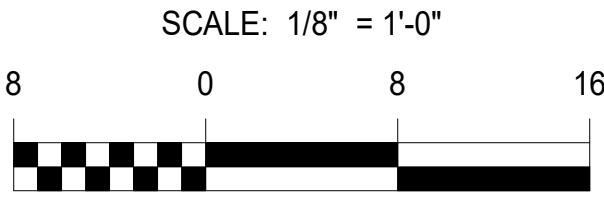
SCALE: 1/8" = 1'-0"



8 0 8 16



LEVEL 03 AREA F PARTIAL FLOOR PLAN - FIRE
ALARM
1/8" = 1'-0"



KEY PLAN

E303F
12/22/2023
BID SET

ALBAN ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HAWTHORNE, MD 21055
P.A. 21055
WWW.ALBANENGINEERING.COM

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT
THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT
I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 46501
EXPIRATION DATE: 06-30-2024

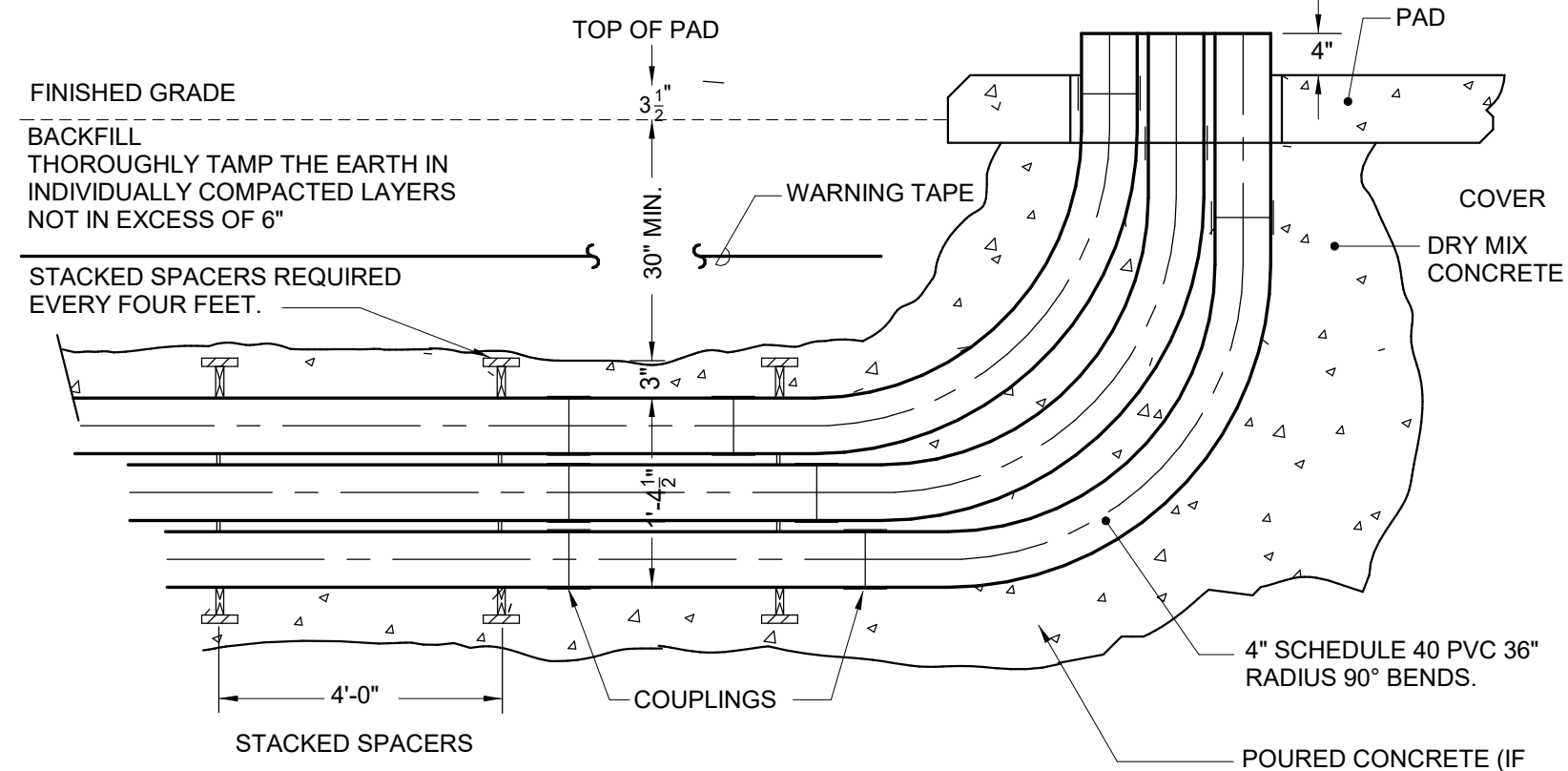
11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

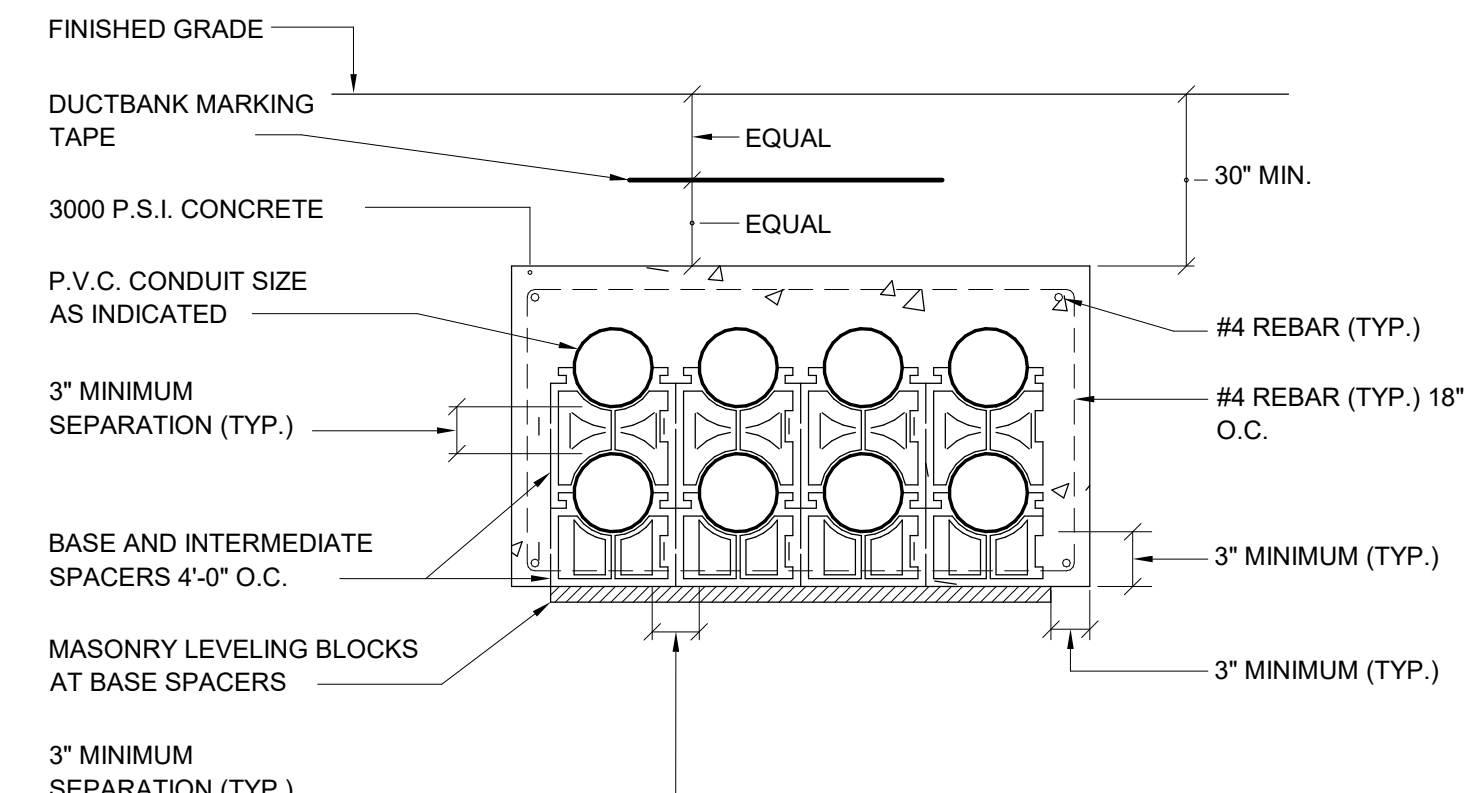
GP #22105

LEVEL 03 AREA F PARTIAL FLOOR PLAN - FIRE ALARM
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

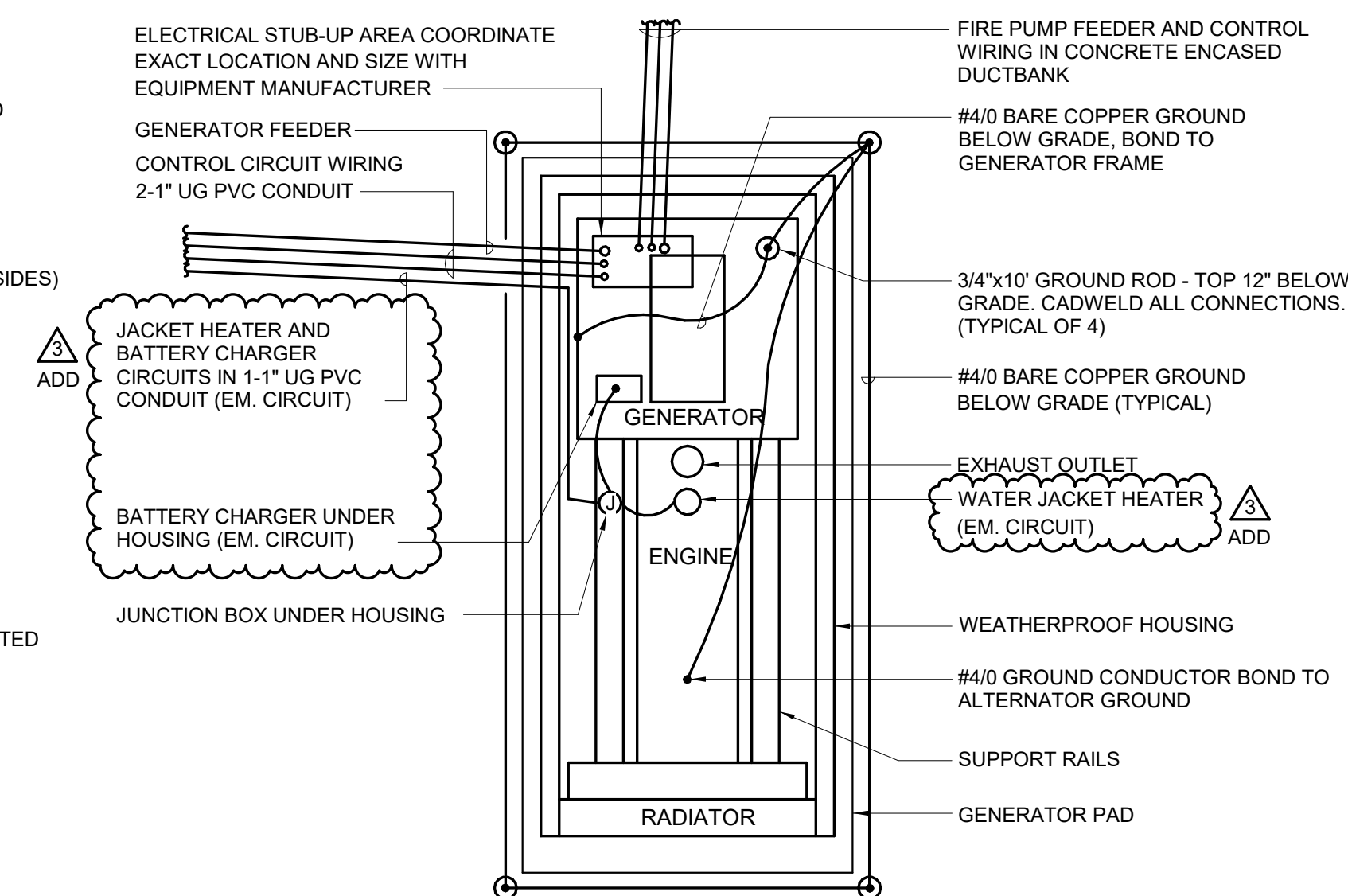
DATE	DESCRIPTION
3/25/2024	ADDENDUM #3



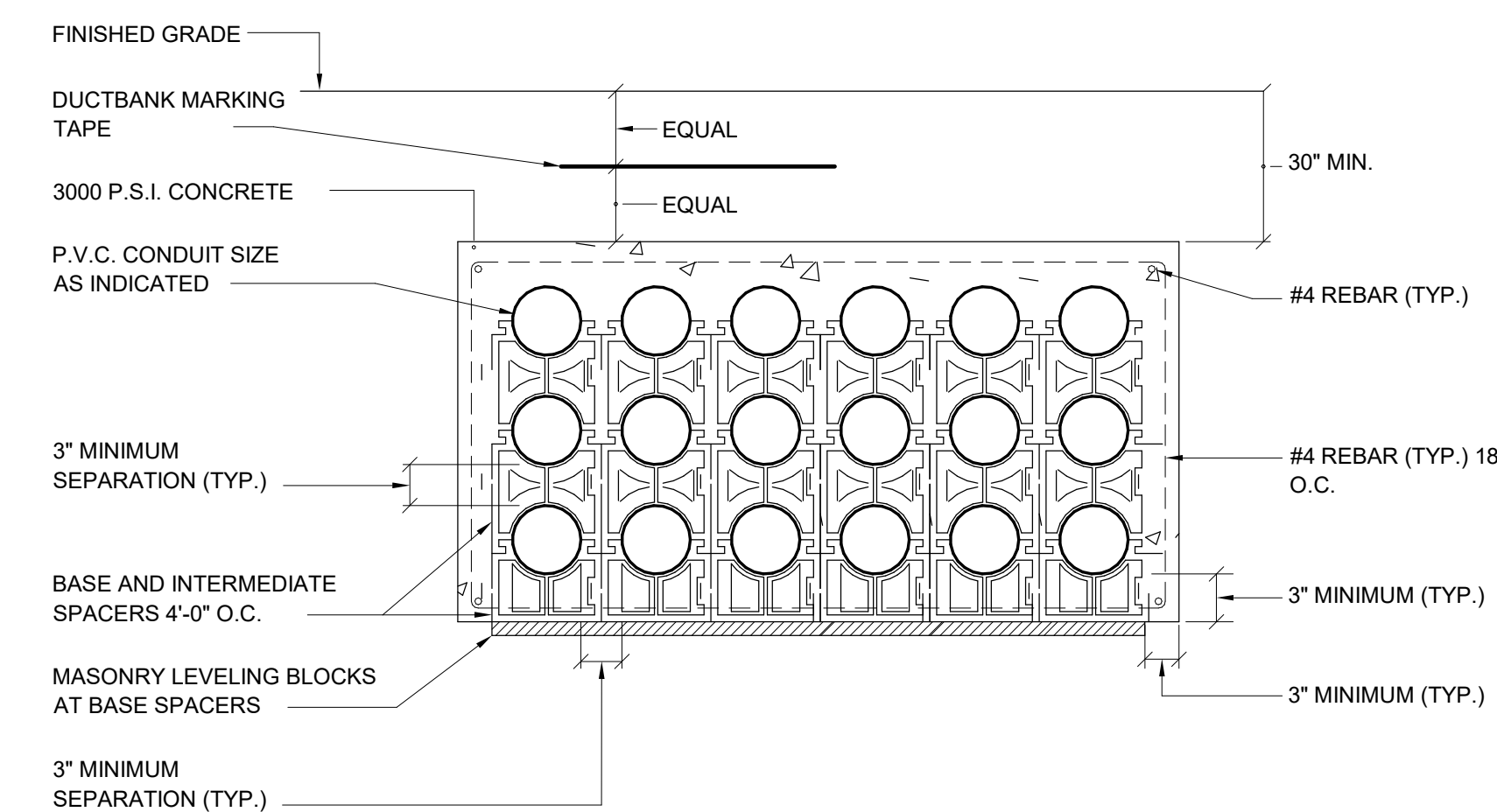
4 TURNING CONDUIT INTO TRANSFORMER PADS



8	HIGH SCHOOL SECONDARY DUCTBANK - 8 WAY
E501	SCALE = NONE



11	GENERATOR CONNECTION AND PAD DIAGRAMS
E501	SCALE = NONE



13 MIDDLE SCHOOL SECONDARY DUCTBANK - 18 WAY
E501 SCALE = NONE

M

L

K

J

H

G

F

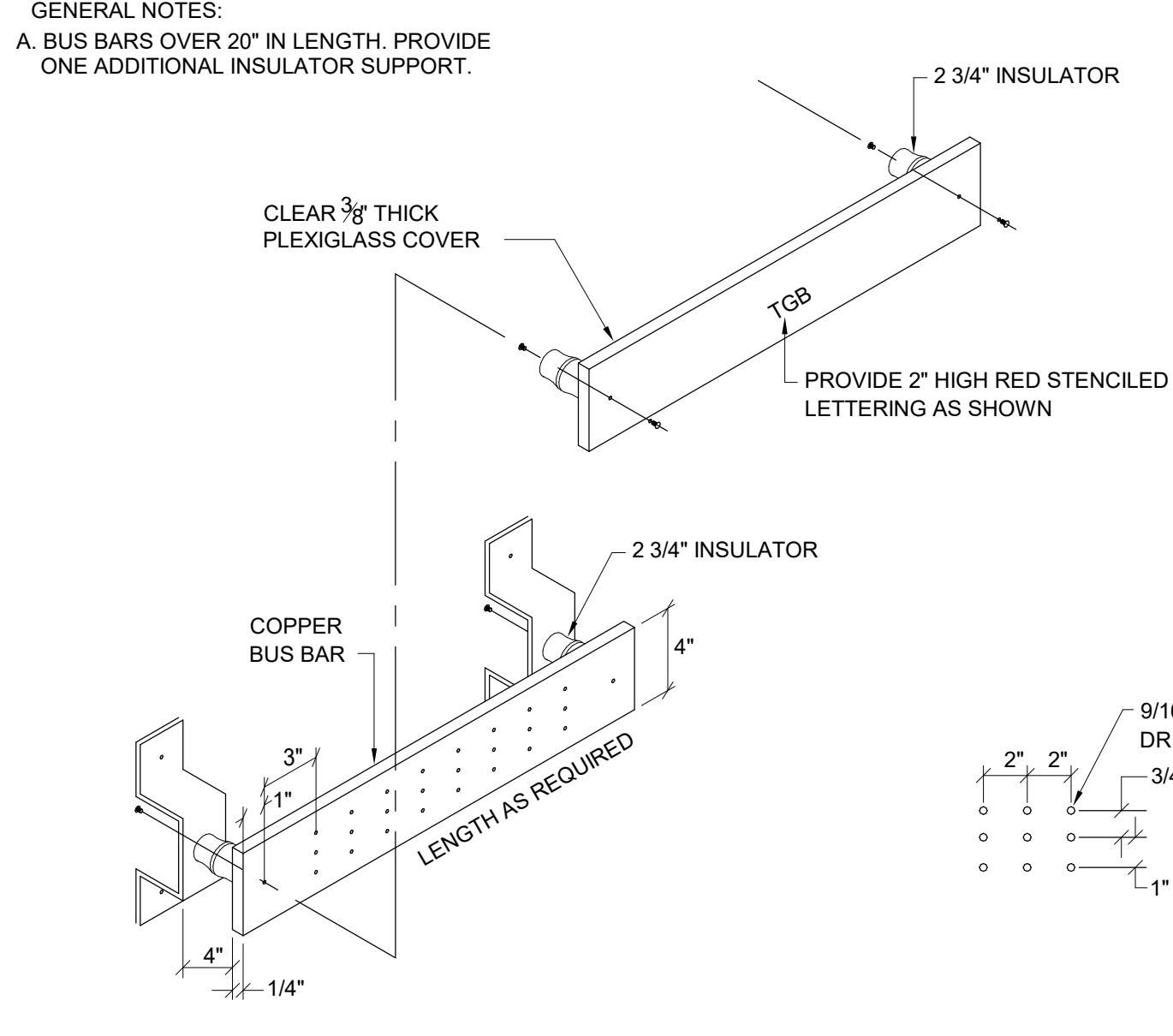
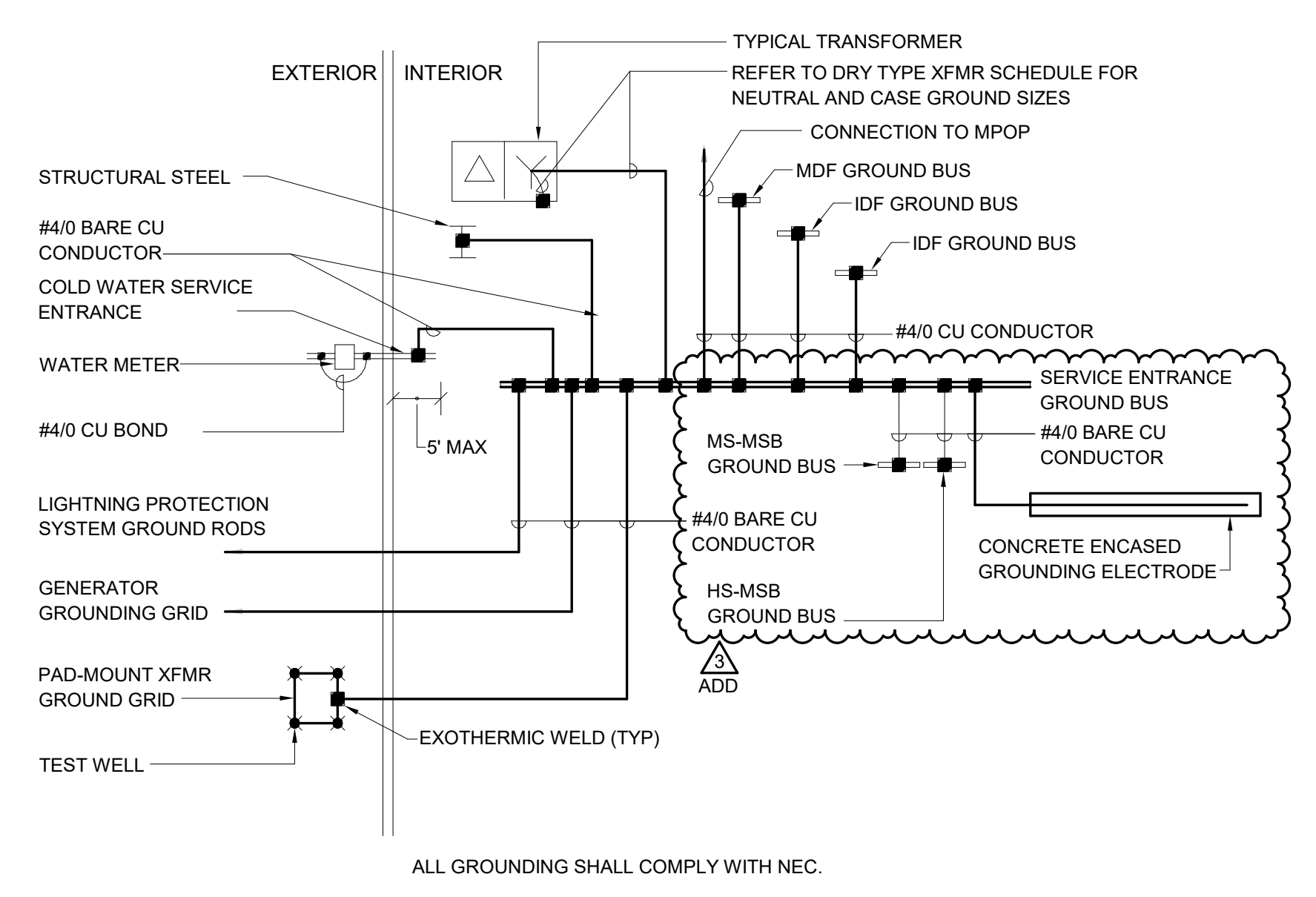
E

D

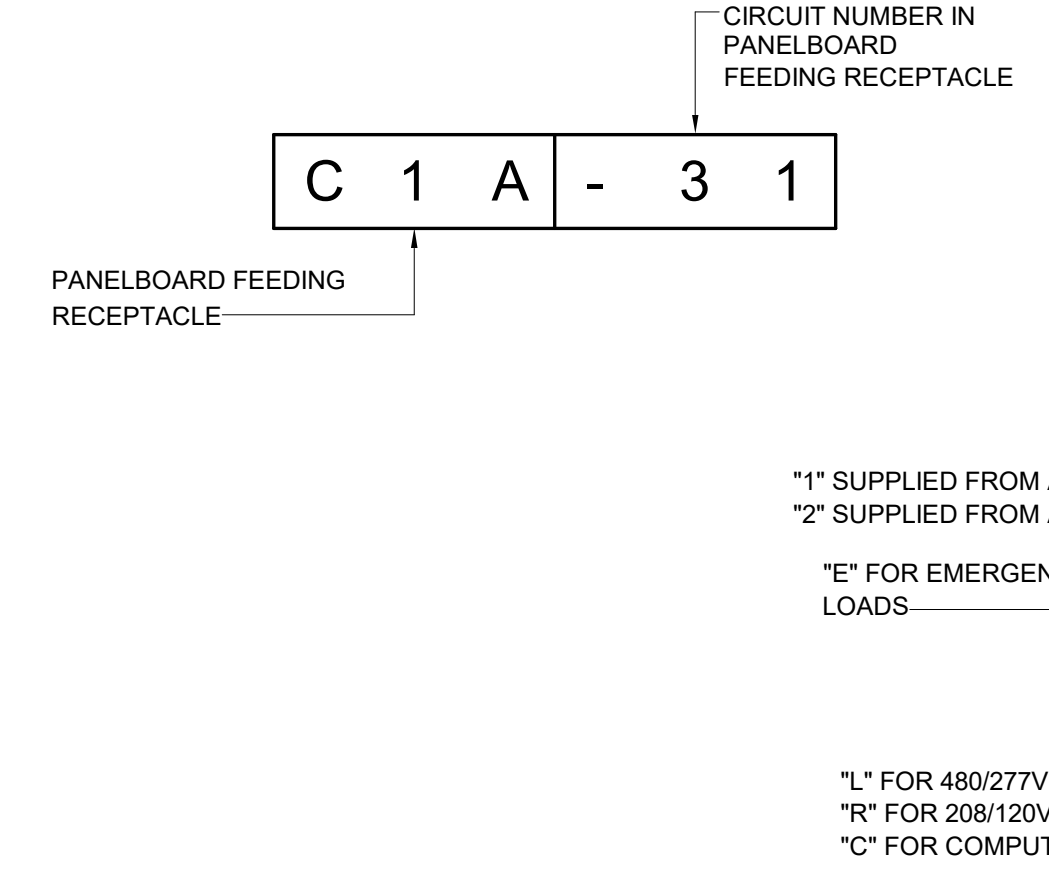
C

B

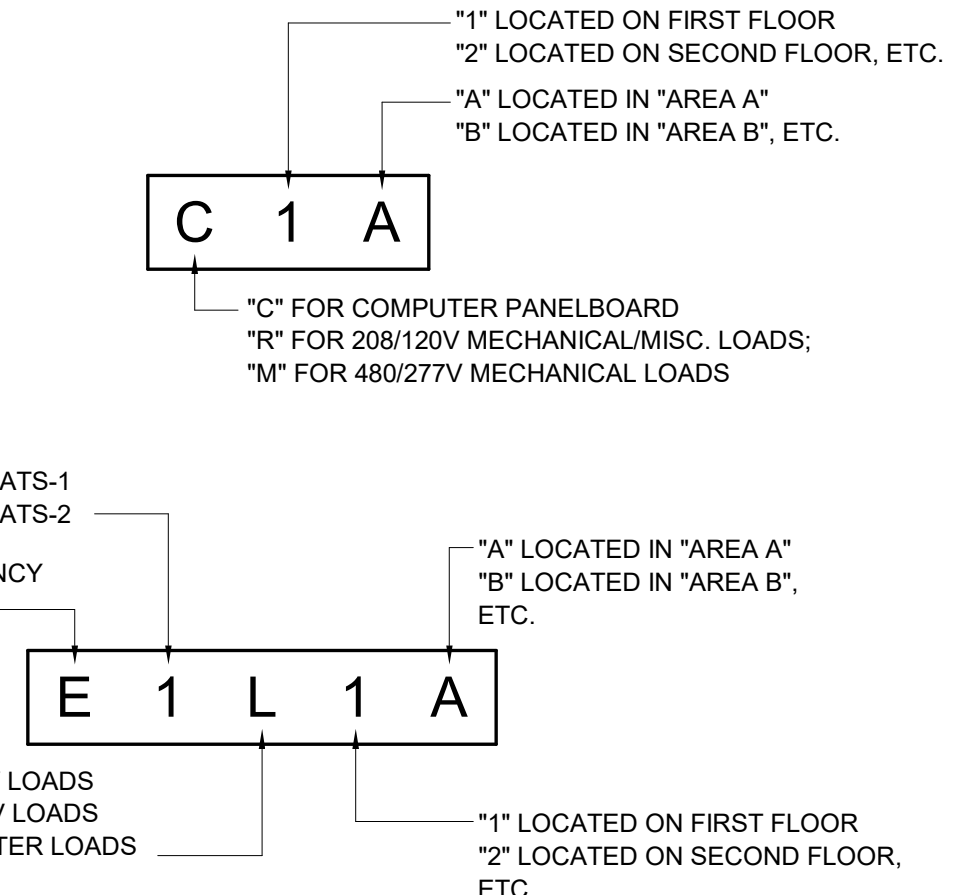
A



RECEPTACLE CIRCUIT LABEL



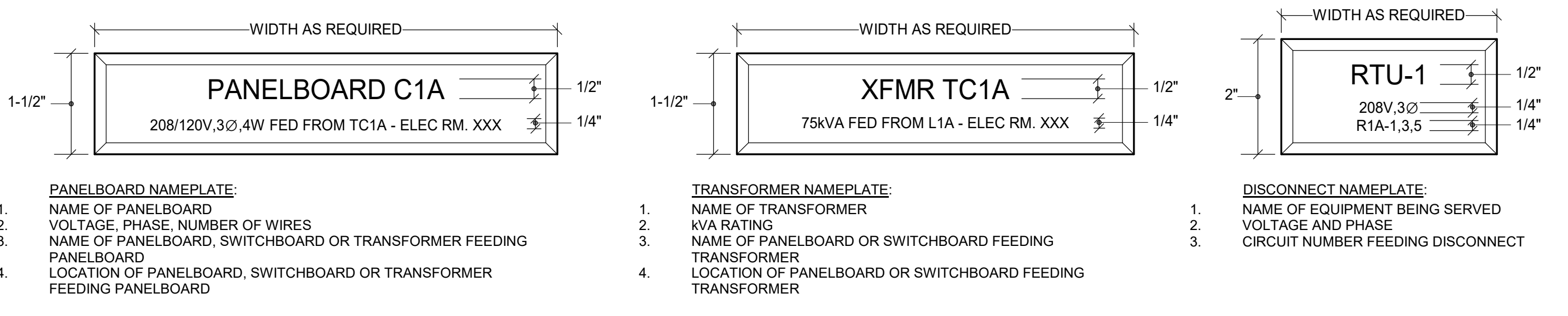
PANELBOARD NAMEPLATE



1 PARTIAL GROUNDING SINGLE LINE SCHEMATIC DIAGRAM
E502 / SCALE = NONE

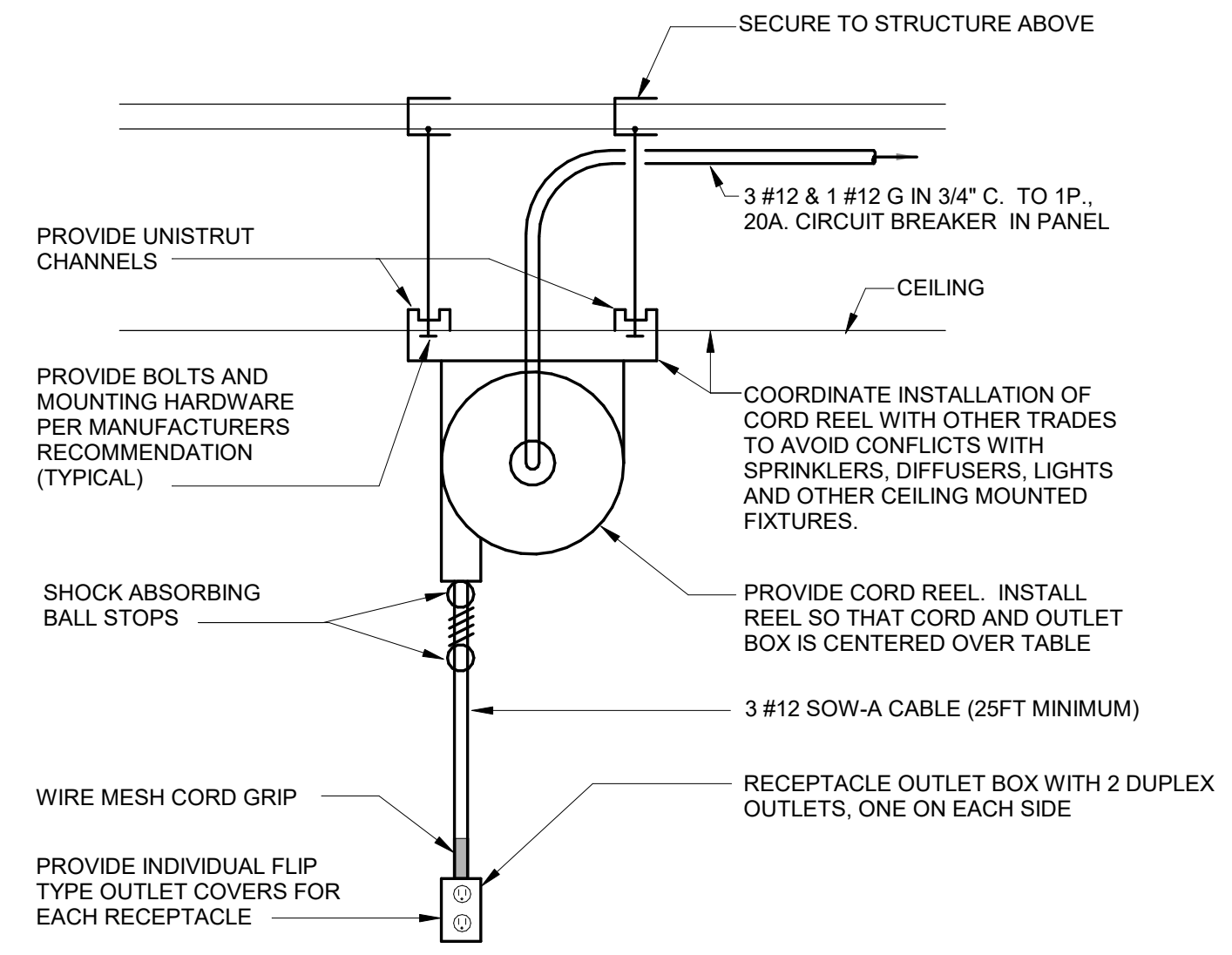
2 GROUNDING BUS BAR
E502 / SCALE = NONE

3 OUTLET LABELING PANELBOARD NAMEPLATE IDENTIFICATION SCHEME
E502 / SCALE = NONE

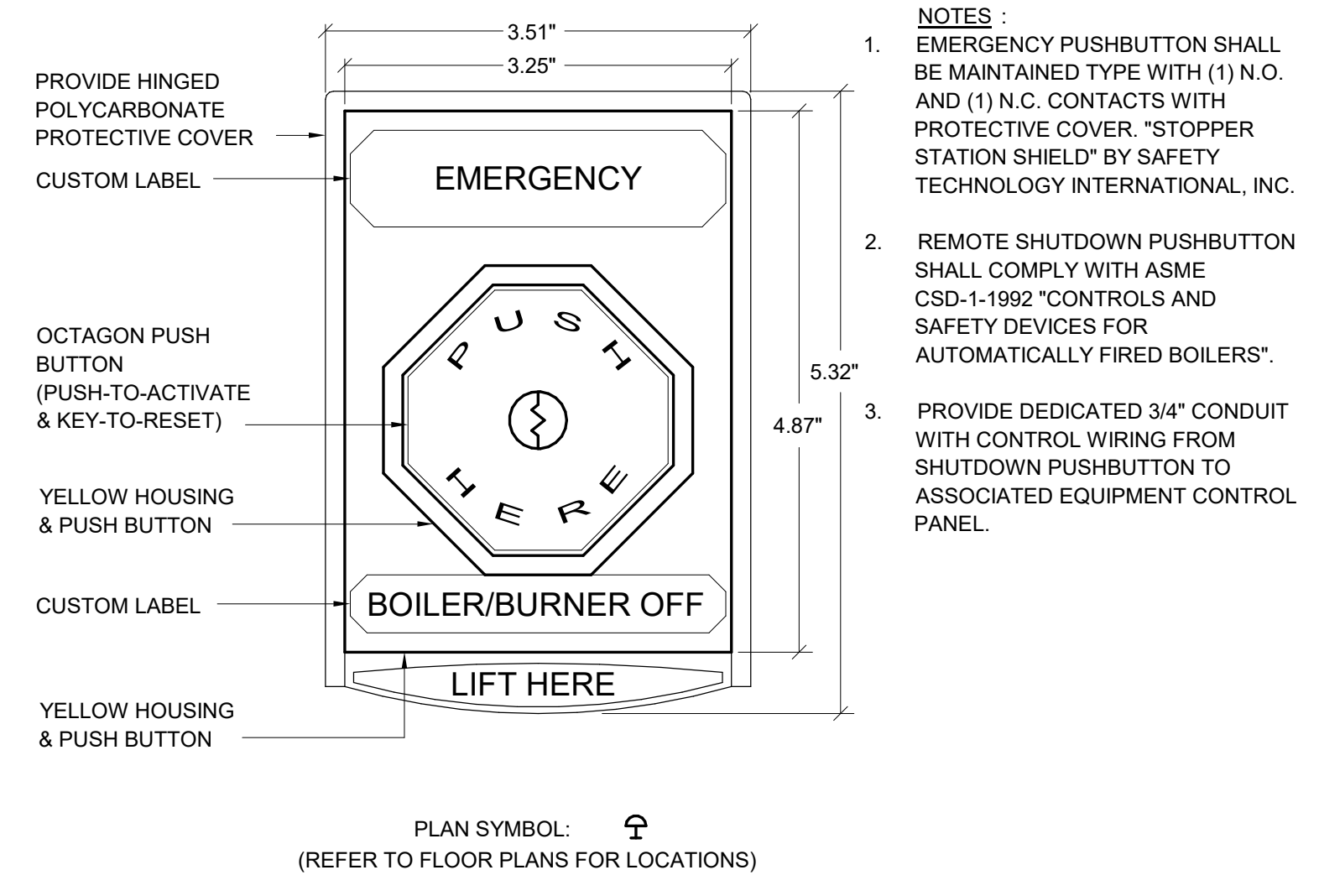
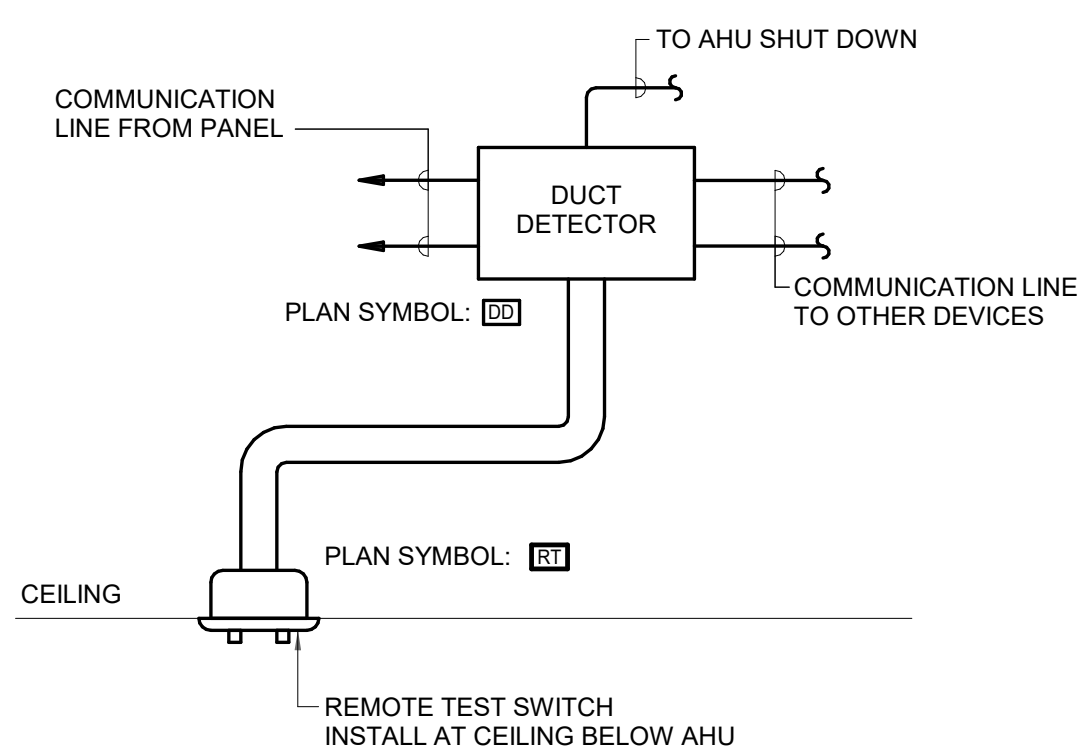


4 ELECTRICAL NAMEPLATE INFORMATION
E502 / SCALE = NONE

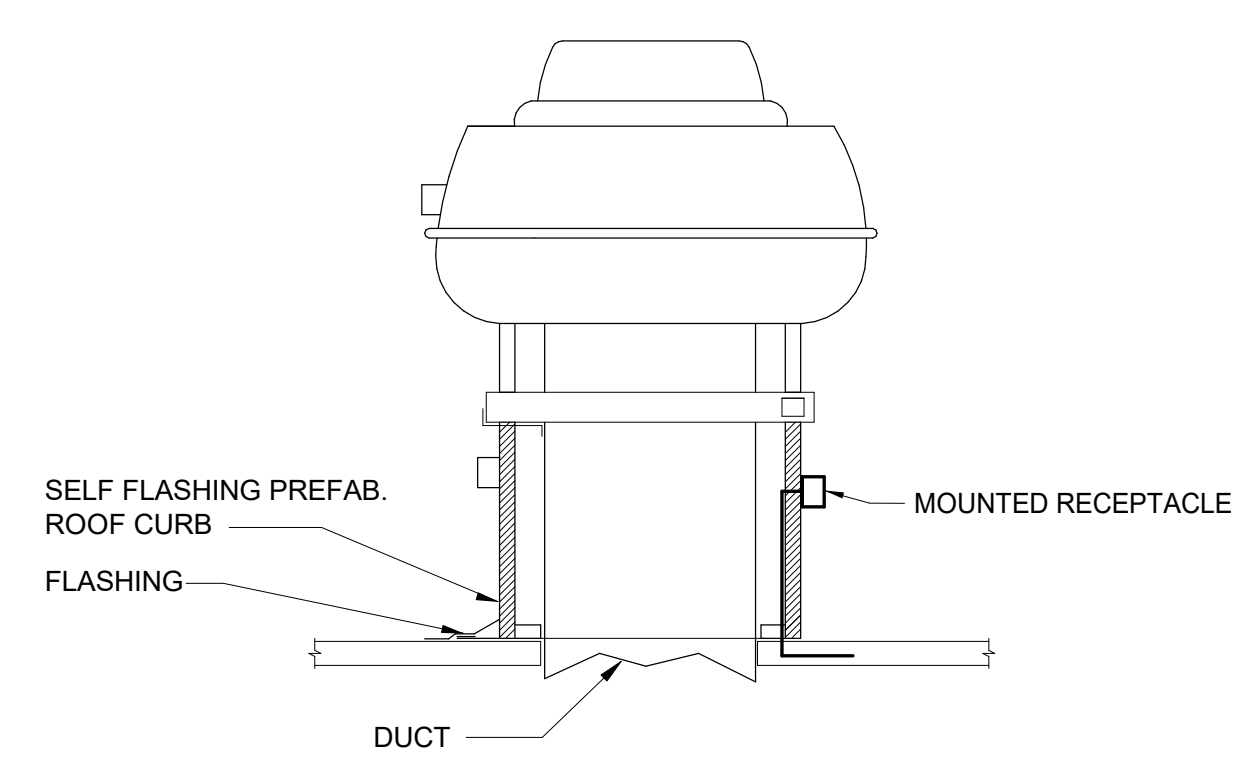
5 POWER CORD REEL
E502 / SCALE = NONE



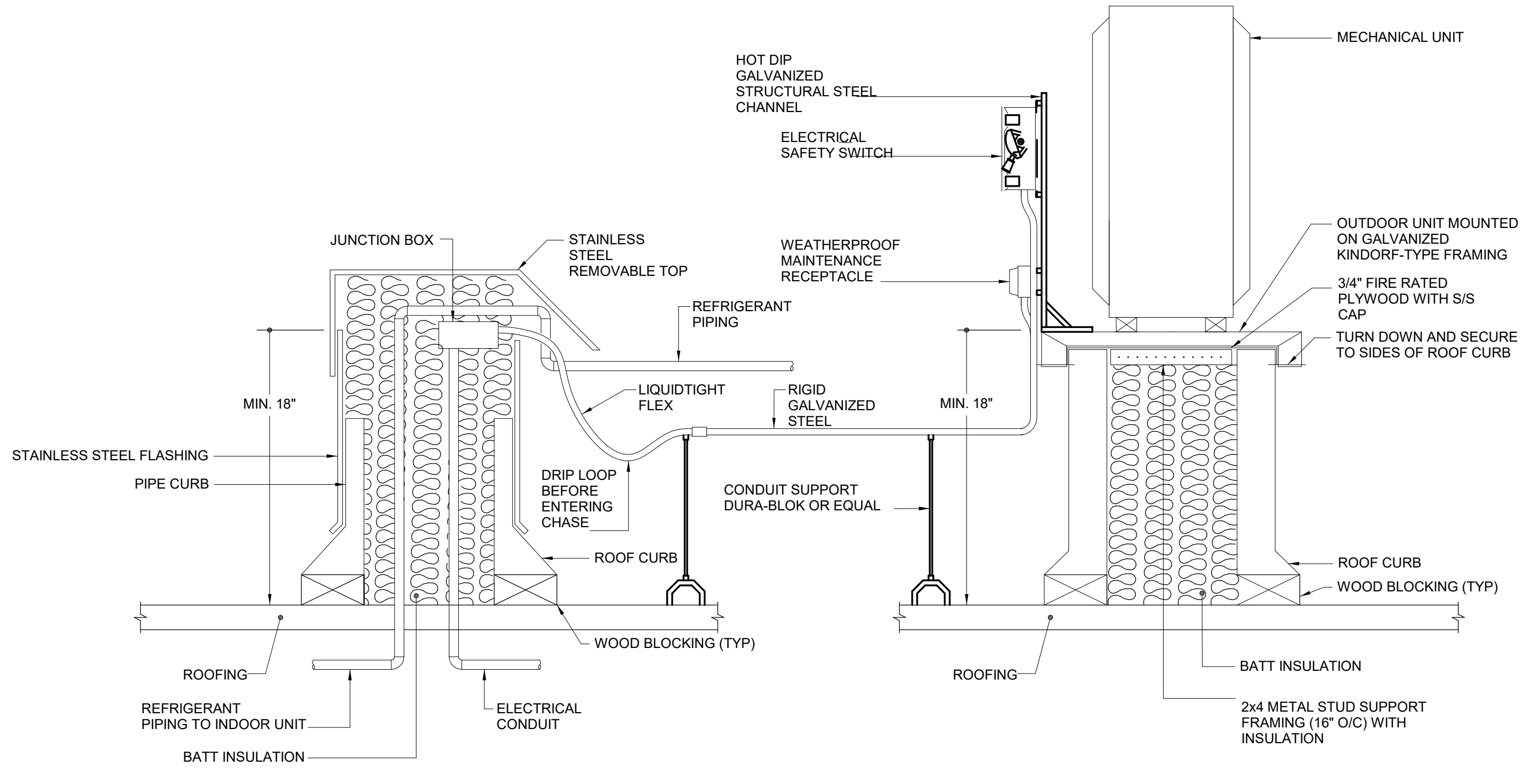
6 DUCT DETECTOR WIRING DIAGRAM
E502 / SCALE = NONE



7 REMOTE SHUTDOWN PUSHBUTTON
E502 / SCALE = NONE



8 FAN MOUNTED RECEPTACLE
E502 / SCALE = NONE



9 EQUIPMENT MOUNTING SUPPORT & CONDUIT PENETRATION
E502 / SCALE = NONE

ALBAN
ENGINEERING, INC.
303 INTERNATIONAL CIRCLE, SUITE 400
HARRISBURG, PA 17103
WWW.ALBANENGINEERING.COM

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 4851 EXPIRATION DATE: 06-30-2024

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

ELECTRICAL DETAILS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
3/25/2024	ADDENDUM #3

E502
12/22/2023
BID SET

GENERAL NOTES:

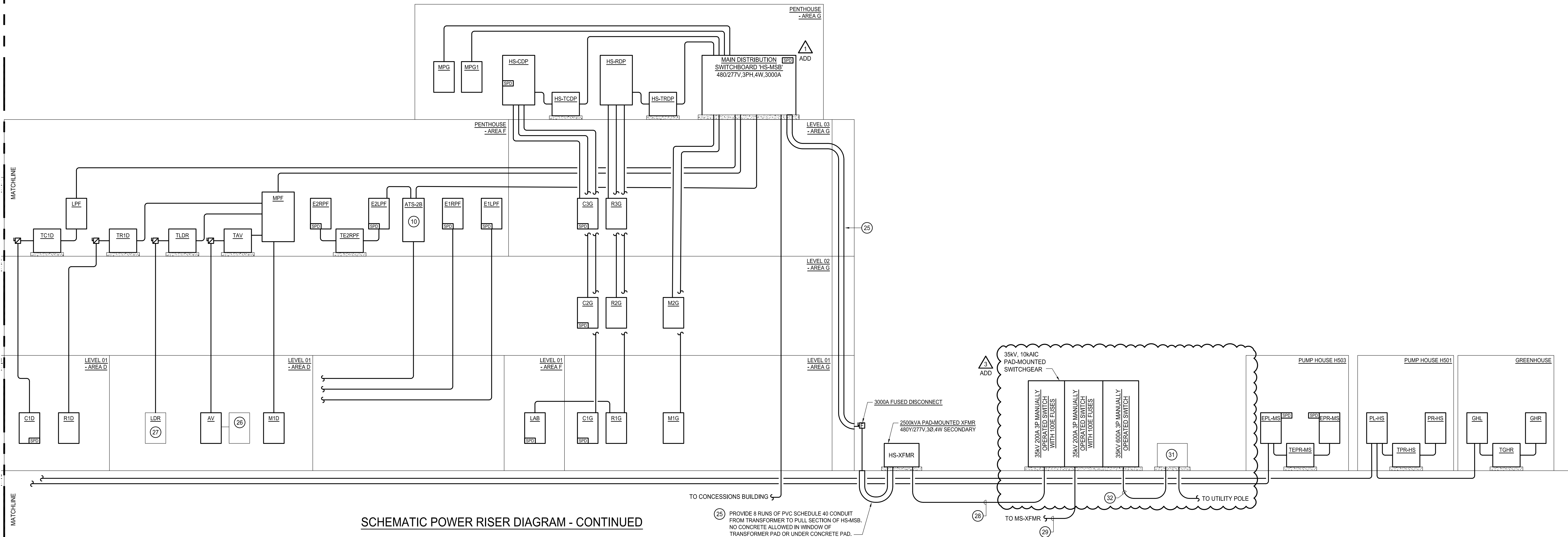
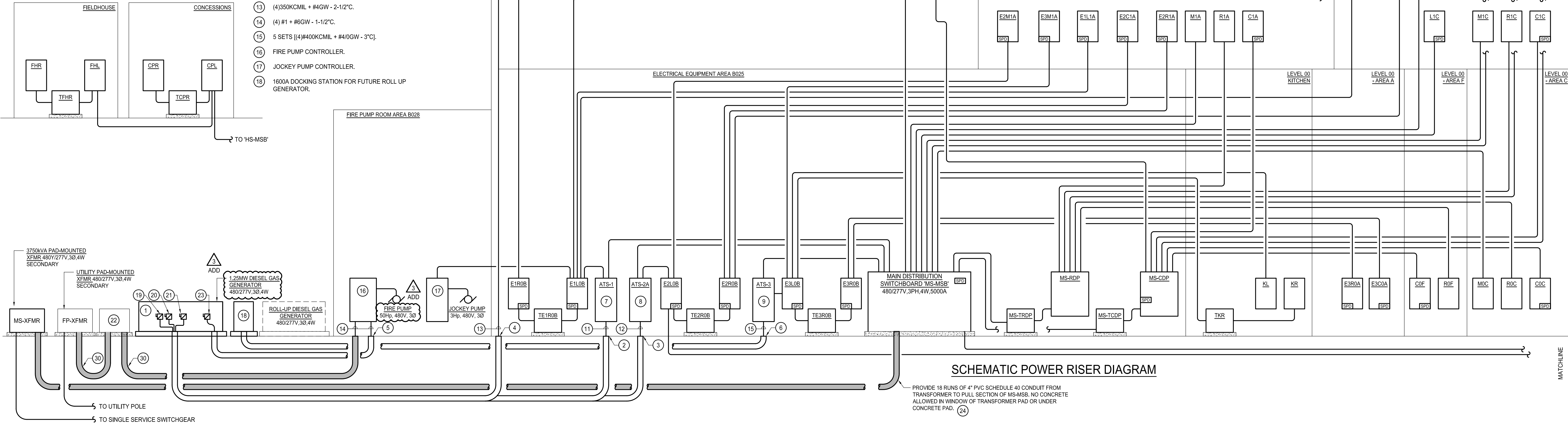
- REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- PROVIDE TRANSFORMER PRIMARY DISCONNECTS AND SECONDARY ECBS, WHERE INDICATED, SIZED TO MATCH (OR EXCEED) THE RATING OF THE PRIMARY AND SECONDARY CB INDICATED ON THE DRY TYPE TRANSFORMER SCHEDULE.
- CONTRACTOR SHALL REDUCE FEEDER SIZE (IF REQUIRED) WITHIN 5'-0" OF EQUIPMENT TO ACCOMMODATE LUG SIZES.
- PROVIDE PLACARD POSTING THE AVAILABLE FAULT CURRENT AT THE MAIN SERVICE.
- PROVIDE POWER RISER DIAGRAM, LAMINATED AND FRAMED 30" x 42" ON MYLAR AND COORDINATE LOCATION WITH OWNER IN MAIN ELECTRICAL ROOM (B205) & HS PENTHOUSE.
- ALL PANELBOARDS WITH 84-POLES OR LESS SHALL BE IN A SINGLE INTERIOR BACKBOX.
- PROVIDE LABEL ON ALL TRANSFORMERS INDICATED FROM WHAT SOURCE IT IS BEING FED FROM.

DRAWING NOTES:

- MOUNT GENERATOR OUTPUT CIRCUIT BREAKERS WITHIN GENERATOR ENCLOSURE. FIRE PUMP CIRCUIT BREAKER SHALL BE MOUNTED ON OPPOSITE SIDE OF LIFE SAFETY AND OPTIONAL STANDBY CIRCUIT BREAKERS.
- GENERATOR DUCTBANK #1.
- GENERATOR DUCTBANK #2.
- GENERATOR DUCTBANK #3.
- GENERATOR DUCTBANK #4.
- GENERATOR DUCTBANK #5.
- 4P-300A, 42KA WITHSTAND RATING.
- 4P-1000A, 42KA WITHSTAND RATING.
- 4P-1600A, 42KA WITHSTAND RATING.
- 4P-225A, 42KA WITHSTAND RATING.
- (4)350KCML + #4GW - 2-1/2"C.
- 3 SETS [(4)#500KCML + #2/0GW - 3"C].
- (4)350KCML + #4GW - 2-1/2"C.
- (4) #1 + #6GW - 1-1/2"C.
- 5 SETS [(4)#400KCML + #4/0GW - 3"C].
- FIRE PUMP CONTROLLER.
- JOCKEY PUMP CONTROLLER.
- 1800A DOCKING STATION FOR FUTURE ROLL UP GENERATOR.

- 3P-300A ELECTRONIC TRIP LSI-TYPE CIRCUIT BREAKER (LIFE SAFETY LOADS).
- 3P-225A ELECTRONIC TRIP LSI-TYPE CIRCUIT BREAKER (HS STANDBY LOADS).
- 3P-1000A ELECTRONIC TRIP LSI-TYPE CIRCUIT BREAKER (MS STANDBY LOADS).
- CT CABINET WITH NON FUSED DISCONNECT SWITCH AHEAD OF CABINET (BY UTILITY). COORDINATE ALL REQUIREMENTS WITH DELMARVA.
- 3P-125A ELECTRONIC TRIP LSI-TYPE CIRCUIT BREAKER (FIRE PUMP).
- MIDDLE SCHOOL SECONDARY DUCTBANK. 14 SETS[(4)500KCML+ 700KCMLGW]
- HIGH SCHOOL SECONDARY DUCTBANK. 8 SETS[(4)500KCML+ 400KCMLGW - 3"C]

- PROVIDE ALL CIRCUITRY FROM PANEL AV THROUGH RELAY PANEL (PROVIDED BY AV CONTRACTOR) AND TO DEDICATED AV ELECTRICAL RECEPTACLES UNLESS OTHERWISE NOTED.
- PANEL PROVIDED BY OTHERS. ALL CIRCUITING TO/FROM PANEL SHALL BE PROVIDED BY EC.
- (3)#1/0 + #6GW.
- (3)#4/0 + #4GW.
- (2) 4" CONDUIT IN CONCRETE ENCASED DUCTBANK.
- PRIMARY METERING CABINET (BY UTILITY).
- (3) DELMARVA SPEC JACKETED 35KV 1/0 AL SOLID PRIMARY CABLE. DELMARVA SHALL TERMINATE CABLE IN THE PRIMARY METERING CABINET. EC SHALL PROVIDE ELBOWS.



Distribution: MS-RDP

Location: ELECTRICAL EQUIPMENT...

Supply From: MS-TRDP (STACKED)

Mounting: Surface

Enclosure: Type 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 42KAIC

Mains Type: MCB

Mains Rating: 400 A

MCB Rating: 400 A

Notes:
100% RATED MAIN BREAKER

CKT	Circuit Description	P	FRAME	CB	Wire Size	Load	Remarks
MS-RDP-1	PANEL ROC	3	100 A	100 A	(4)#1/0 + #6GW - 1-1/2"C	23.8 kVA	AL FEEDERS
MS-RDP-2	PANEL R1A	3	100 A	60 A	(4)#4 + #10GW - 1-1/4"C	14.7 kVA	
MS-RDP-3	PANEL R1C	3	150 A	150 A	(4)#4/0 + #2GW - 2"C	46.5 kVA	AL FEEDERS
MS-RDP-4	PANEL R2C	3	100 A	100 A	(4)#1/0 + #6GW - 1-1/2"C	26.5 kVA	AL FEEDERS
MS-RDP-5	PANEL R0F	3	100 A	60 A	(4)#4 + #10GW - 1-1/4"C	9.1 kVA	
MS-RDP-6	PREPARED 100A SPACE	3	--	--		--	
MS-RDP-7	PREPARED 100A SPACE	3	--	--		--	
MS-RDP-8							
MS-RDP-9							
MS-RDP-10							
MS-RDP-11							
MS-RDP-12							
MS-RDP-13							
MS-RDP-14							
MS-RDP-15							
MS-RDP-16							
MS-RDP-17							
MS-RDP-18							
MS-RDP-19							
MS-RDP-20							
					Total Conn. Load:	120.7 kVA	
Legend:							
Notes:							

Branch Panel: PR-HS														
LOCATION: GEOTHERMAL PUMP HOUSE H501							VOLTAGE: 120/208 Wye				A.I.C. RATING: 10kAIC			
SUPPLY FROM: TPR-HS							PHASE: 3				MAINS RATING: 100 A			
MOUNTING: Surface							WIRES: 4				MCB RATING: 60 A			
											NEUTRAL RATING: 100%			
Notes:														
CKT	CIRCUIT	WIRE SIZE		P	CB	A	B	C	CB	P	WIRE SIZE		CIRCUIT	CKT
PR-HS-1	REC - GEO PUMP HOUSE H501	(2)#12 + #12GW - 3/4"		1	20 A	0.4 kVA	0.4 kVA			20 A	1	(2)#12 + #12GW - 3/4"	REC GEO PUMP HOUSE H501	PR-HS-2
PR-HS-3	ERCP-4, ERCP-5	(2)#12 + #12GW - 3/4"		1	20 A		0.6 kVA	1.2 kVA				(2)#12 + #12GW - 3/4"	GLYCOL FEEDWATER UNIT	PR-HS-4
PR-HS-5	RP-6	(2)#12 + #12GW - 3/4"		1	20 A			0.2 kVA	1.4 kVA	20 A	1	(2)#12 + #12GW - 3/4"	REC - ROOM H501, H502, H500	PR-HS-6
PR-HS-7	F-62, F-63	(2)#12 + #12GW - 3/4"		1	20 A	0.2 kVA	0.0 kVA			20 A	1	--	SPARE	PR-HS-8
PR-HS-9	SPARE	--		1	20 A		0.0 kVA	0.0 kVA		20 A	1	--	SPARE	PR-HS-10
PR-HS-11	SPARE	--		1	20 A			0.0 kVA	0.0 kVA	20 A	1	--	SPARE	PR-HS-12
PR-HS-13	SPARE	--		1	20 A	0.0 kVA	0.0 kVA			20 A	1	--	SPARE	PR-HS-14
PR-HS-15														PR-HS-16
PR-HS-17														PR-HS-18
PR-HS-19														PR-HS-20
PR-HS-21														PR-HS-22
PR-HS-23														PR-HS-24
Total Connected Load: 4.5 kVA 1.0 kVA 1.8 kVA 1.6 kVA														
Legend:														
LOAD CLASSIFICATION					CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANELBOARD TOTALS			
REC -					2.2 kVA		100.00%		2.2 kVA		Total Conn. Load: 4.5 kVA			
MECHANICAL -					1.1 kVA		100.00%		1.1 kVA		Total Est. Demand: 4.5 kVA			
LTG -					0.0 kVA		0.00%		0.0 kVA		Total Conn.: 13 A			
EQUIPMENT -					1.2 kVA		100.00%		1.2 kVA		Total Est. Demand.: 13 A			

Branch Panel: R0F														
LOCATION: MECHANICAL F005A						VOLTAGE: 120/208 Wye				A.I.C. RATING: 22KAIC				
SUPPLY FROM: MS-RDP						PHASE: 3				MAINS RATING: 100 A				
MOUNTING: Surface						WIRES: 4				MCB RATING: 60 A				
NEUTRAL RATING: 100%														
Notes:														
CKT	CIRCUIT	WIRE SIZE		P	CB	A	B	C	CB	P	WIRE SIZE		CIRCUIT	CKT
R0F-1	F-25	(2)#12 + #12GW - 3/4"C		1	20 A	0.3 kVA	1.0 kVA			20 A	1	(2)#12 + #12GW - 3/4"C	REC - MAIN LIBRARY F001	R0F-2
R0F-3	REC - MAIN LIBRARY F001	(2)#12 + #12GW - 3/4"C		1	20 A		0.8 kVA	0.8 kVA		20 A	1	(2)#12 + #12GW - 3/4"C	TABLE REC - LIBRARY MEZZ	R0F-4
R0F-5	REC - GENERAL CORRIDOR F11	(2)#12 + #12GW - 3/4"C		1	20 A			2.0 kVA	0.4 kVA	20 A	1	(2)#12 + #12GW - 3/4"C	TABLE REC - LIBRARY MEZZ	R0F-6
R0F-7	ROLLER SHADES - MEDIA CENTER	(2)#12 + #12GW - 3/4"C		1	20 A	0.6 kVA	0.0 kVA			20 A	1	--	SPARE	R0F-8
R0F-9	ROLLER SHADES - MEDIA CENTER	(2)#12 + #12GW - 3/4"C		1	20 A		0.6 kVA	0.0 kVA		20 A	1	--	SPARE	R0F-10
R0F-11	ROLLER SHADES - MEDIA CENTER	(2)#12 + #12GW - 3/4"C		1	20 A			0.6 kVA	0.0 kVA	20 A	1	--	SPARE	R0F-12
R0F-13	ROLLER SHADES - MEDIA CENTER	(2)#12 + #12GW - 3/4"C		1	20 A	0.6 kVA	0.0 kVA			20 A	1	--	SPARE	R0F-14
R0F-15	REC - COURTYARD	(2)#12 + #12GW - 3/4"C		1	20 A		0.8 kVA	0.0 kVA		20 A	1	--	SPARE	R0F-16
R0F-17									0.0 kVA	20 A	1	--	SPARE	R0F-18
R0F-19	ROLLER SHADES - MEDIA CENTER	(2)#12 + #12GW - 3/4"C		1	20 A	0.0 kVA	0.0 kVA			20 A	1	--	SPARE	R0F-20
R0F-21	ROLLER SHADES - MEDIA CENTER	(2)#12 + #12GW - 3/4"C		1	20 A		0.0 kVA	0.0 kVA		20 A	1	(2)#12 + #12GW - 3/4"C	ROLLER SHADES - MEDIA CENTER	R0F-22
R0F-23	ROLLER SHADES - MEDIA CENTER	(2)#12 + #12GW - 3/4"C		1	20 A			0.0 kVA	0.6 kVA	20 A	1	(2)#12 + #12GW - 3/4"C	ROLLER SHADES - MEDIA CENTER	R0F-24
R0F-25														R0F-26
R0F-27														R0F-28
R0F-29														R0F-30
Total Connected Load:					9.1 kVA		2.5 kVA		3.0 kVA		3.6 kVA			
Legend:														
LOAD CLASSIFICATION				CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANELBOARD TOTALS				
REC -				5.8 kVA		100.00%		5.8 kVA		Total Conn. Load: 9.1 kVA				
MECHANICAL -				0.3 kVA		100.00%		0.3 kVA		Total Est. Demand: 9.1 kVA				
LTG -				0.0 kVA		0.00%		0.0 kVA		Total Conn.: 25 A				
EQUIPMENT -				3.0 kVA		100.00%		3.0 kVA		Total Est. Demand.: 25 A				

Branch Panel: PL-HS

LOCATION: GEOTHERMAL PUMP HOUSE H501

VOLTAGE: 480/277 Wye

A.I.C. RATING: 22KA/IC

SUPPLY FROM: MS-MSB

PHASE: 3

MAINS RATING: 400 A

MOUNTING: Surface

WIRES: 4

MCB RATING: 300 A

NEUTRAL RATING: 100%

Notes:

CKT	CIRCUIT	WIRE SIZE	P	CB	A	B	C	CB	P	WIRE SIZE	CIRCUIT	CKT		
PL-HS-1	P-3	(3)#3/0 + #6GW - 2"	3	200 A	34.4...	0.0 kVA			200 A	3	(3)#3/0 + #6GW - 2"	P-4 (SB)	PL-HS-2	
PL-HS-3						34.4 kVA	0.0 kVA							PL-HS-4
PL-HS-5							34.4 kVA	0.0 kVA						
PL-HS-7	EUH-10	(3)#12 + #12GW - 3/4"	3	20 A	3.3 kVA	4.2 kVA			20 A	3	(3)#12 + #12GW - 3/4"	HWG-9	PL-HS-8	
PL-HS-9						3.3 kVA	4.2 kVA							PL-HS-10
PL-HS-11							3.3 kVA	4.2 kVA						
PL-HS-13	F-61	(3)#12 + #12GW - 3/4"	3	15 A	0.6 kVA	0.0 kVA			20 A	1	--	SPARE	PL-HS-14	
PL-HS-15						0.6 kVA	0.0 kVA							PL-HS-16
PL-HS-17							0.6 kVA	0.0 kVA						
PL-HS-19					0.0 kVA				20 A	1	--	SPARE	PL-HS-20	
PL-HS-21														PL-HS-22
PL-HS-23														
PL-HS-25	PANEL PR-HS (VIA XFMR TPR-HS)	REFER TO XFMR SCHEDULE	3	30 A	1.0 kVA	19.0 kVA			100 A	3	(4)#1 + #4GW - 1-1/2" [AL]	GHL	PL-HS-26	
PL-HS-27						1.8 kVA	18.7 kVA							PL-HS-28
PL-HS-29							1.6 kVA	17.7...						
Total Connected Load:					187.2...	62.4 kVA	63.0 kVA	61.8 kVA						

Legend:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANELBOARD TOTALS
REC -	4.2 kVA	100.00%	4.2 kVA	Total Conn. Load: 187.2 kVA
M.ECHANICAL -	181.8 kVA	100.00%	181.8 kVA	Total Est. Demand: 187.2 kVA
LTG. -	0.0 kVA	0.00%	0.0 kVA	Total Conn.: 225 A
EQUIPMENT -	1.2 kVA	100.00%	1.2 kVA	Total Est. Demand.: 225 A

Branch Panel: E2M1A												
LOCATION: ELECTRICAL A122					VOLTAGE: 480/277 Wye					A.I.C. RATING: 42kA/IC		
SUPPLY FROM: E2R0B					PHASE: 3					MAINS RATING: 150 A		
MOUNTING: Surface					WIRES: 4					MCB RATING: 150 A		
										NEUTRAL RATING: 100%		
Notes:												
CKT	CIRCUIT	WIRE SIZE	P	CB	A	B	C	CB	P	WIRE SIZE	CIRCUIT	CKT
E2M1A-1					15.5...	2.1 kVA						E2M1A-2
E2M1A-3	DOAS-1	(3)#14 + #8GW - 1" C	3	70 A		15.5 kVA	2.1 kVA			15 A	3	E2M1A-4
E2M1A-5							15.5 kVA	2.1 kVA				E2M1A-6
E2M1A-7	DOAS-1 HEATER	(2)#12 + #12GW - 3/4" C	1	20 A	1.5 kVA	2.1 kVA						E2M1A-8
E2M1A-9	HP-1.01	(2)#12 + #12GW - 3/4" C	1	15 A		1.5 kVA	2.1 kVA			15 A	3	E2M1A-10
E2M1A-11	HP-1.02	(2)#12 + #12GW - 3/4" C	1	15 A			1.5 kVA	2.1 kVA				E2M1A-12
E2M1A-13	HP-1.03	(2)#12 + #12GW - 3/4" C	1	15 A	1.5 kVA	0.0 kVA				20 A	1	E2M1A-14
E2M1A-15	HP-1.07	(2)#12 + #12GW - 3/4" C	1	15 A		2.8 kVA	0.0 kVA			20 A	1	E2M1A-16
E2M1A-17	HP-1.08	(2)#12 + #12GW - 3/4" C	1	15 A			2.8 kVA	0.0 kVA		20 A	1	E2M1A-18
E2M1A-19	HP-1.09	(2)#12 + #12GW - 3/4" C	1	15 A	1.5 kVA	0.0 kVA				20 A	1	E2M1A-20
E2M1A-21	HP-1.13	(2)#12 + #12GW - 3/4" C	1	15 A		1.5 kVA	0.0 kVA			20 A	1	E2M1A-22
E2M1A-23	HP-1.14	(2)#12 + #12GW - 3/4" C	1	15 A			1.5 kVA	0.0 kVA		20 A	1	E2M1A-24
E2M1A-25	HP-1.18	(2)#12 + #12GW - 3/4" C	1	15 A	1.5 kVA	0.0 kVA				20 A	1	E2M1A-26
E2M1A-27	HP-1.29	(2)#12 + #12GW - 3/4" C	1	15 A		1.5 kVA						E2M1A-28
E2M1A-29	HP-1.30	(2)#12 + #12GW - 3/4" C	1	15 A			1.5 kVA					E2M1A-30
E2M1A-31	HP-1.31	(2)#12 + #12GW - 3/4" C	1	15 A	1.5 kVA							E2M1A-32
E2M1A-33	HP-1.32	(2)#12 + #12GW - 3/4" C	1	15 A		1.5 kVA						E2M1A-34
E2M1A-35												E2M1A-36
E2M1A-37					0.1 kVA							E2M1A-38
E2M1A-39						0.1 kVA				30 A	3	E2M1A-40
E2M1A-41							0.1 kVA					E2M1A-42
Total Connected Load:					83.3...	27.4 kVA	28.7 kVA	27.2 kVA				
Legend:												
LOAD CLASSIFICATION			CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANELBOARD TOTALS			
REC -			0.0 kVA		0.00%		0.0 kVA		Total Conn. Load: 83.3 kVA			
MECHANICAL -			81.5 kVA		100.00%		81.5 kVA		Total Est. Demand: 83.3 kVA			
LTG -			0.0 kVA		0.00%		0.0 kVA		Total Conn.: 100 A			
EQUIPMENT -			1.5 kVA		100.00%		1.5 kVA		Total Est. Demand: 100 A			

Branch Panel: E2R1A														
LOCATION: ELECTRICAL A122					VOLTAGE: 120/208 Wye					A.I.C. RATING: 22KAIC				
SUPPLY FROM: E2R0B					PHASE: 3					MAINS RATING: 225 A				
MOUNTING: Surface					WIRES: 4					MCB RATING: 225 A				
										NEUTRAL RATING: 100%				
Notes:														
*PROVIDE GFI-TYPE BREAKER														
**PROVIDE SHUNT TRIP TYPE BREAKER														
CKT	CIRCUIT	WIRE SIZE	P	CB	A	B	C	CB	P	WIRE SIZE	CIRCUIT	CKT		
E2R1A-1	REC - HS NURSE TLTS/COT AREA	(2)#12 + #12GW - 3/4" C	1	20 A	1.2 kVA	0.6 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	REC - ROOM A13, A109, A111	E2R1A-2
E2R1A-3	REC - FRIDGE HS NURSE OFF A154	(2)#12 + #12GW - 3/4" C	1	20 A			1.0 kVA	1.5 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	REC - FRIDGE ROOM A115	E2R1A-4
E2R1A-5	REC - ICE MAKER NURSE OFF A154	(2)#12 + #12GW - 3/4" C	1	20 A				1.0 kVA	1.5 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	REC - FRIDGE ROOM A115	E2R1A-6
E2R1A-7	REC - MS NURSE TLTS/COT AREA	(2)#12 + #12GW - 3/4" C	1	20 A	1.2 kVA	1.0 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	REC - LUNCHEONETTE A115	E2R1A-8
E2R1A-9	REC - FRIDGE MS NURSE OFF A158	(2)#12 + #12GW - 3/4" C	1	20 A			1.0 kVA	1.0 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	REC - LUNCHEONETTE A115	E2R1A-10
E2R1A-11	REC - ICE MAKER NURSE OFF A158	(2)#12 + #12GW - 3/4" C	1	20 A				1.0 kVA	1.0 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	REC - GEN OFFICE AREA A102	E2R1A-12
E2R1A-13	MICROWAVE - SUPP CNTR D107	(2)#12 + #12GW - 3/4" C	1	20 A	1.0 kVA	0.0 kVA				20 A	1	--	REC -	E2R1A-14
E2R1A-15	REC - FRIDGE SUPP CNTR D107	(2)#12 + #12GW - 3/4" C	1	20 A			1.0 kVA	1.4 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	REC - GEN OFFICE AREA A102	E2R1A-16
E2R1A-17	REC - WASHER LAUNDRY A157	(2)#12 + #12GW - 3/4" C	1	20 A				1.0 kVA	1.0 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	ACCESS CONTROL	E2R1A-18
E2R1A-19					0.5 kVA	0.2 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	EW-C - CORRIDOR A13	E2R1A-20
E2R1A-21	REC - DRYER LAUNDRY A157	(3)#10 + #10GW - 3/4" C	2	30 A			0.5 kVA	0.2 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	EW-C - CORRIDOR A12	E2R1A-22
E2R1A-23							1.4 kVA	0.2 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	EW-C - CORRIDOR A12	E2R1A-24
E2R1A-25	SSCU-4	(2)#12 + #12GW - 3/4" C	2	20 A	1.4 kVA	0.2 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	EW-C - CORRIDOR A12	E2R1A-26
E2R1A-27							1.4 kVA	4.8 kVA						
E2R1A-29	SSCU-5	(2)#12 + #12GW - 3/4" C	2	20 A				1.4 kVA	4.8 kVA	70 A	3	(4)#4 + #8GW - 1" C	**ELEVATOR EL02	E2R1A-30
E2R1A-31	F-49, F-50, F-51	(2)#12 + #12GW - 3/4" C	1	20 A	0.9 kVA	4.8 kVA								E2R1A-32
E2R1A-33	HAND DRYERS - TOILET A152	(2)#12 + #12GW - 3/4" C	1	20 A			1.2 kVA	0.0 kVA						E2R1A-34
E2R1A-35	HAND DRYERS - TOILET A153	(2)#12 + #12GW - 3/4" C	1	20 A				1.2 kVA	0.0 kVA	30 A	2	(2)#10 + #10GW - 3/4" C	ELEVATOR EL02 CAB LIGHTS	E2R1A-36
E2R1A-37	HAND DRYERS - TOILET A159	(2)#12 + #12GW - 3/4" C	1	20 A	1.2 kVA	0.0 kVA				20 A	1	--	SPARE	E2R1A-38
E2R1A-39	REC - LUNCHEONETTE A115	(2)#12 + #12GW - 3/4" C	1	20 A			0.6 kVA	0.0 kVA		20 A	1	--	SPARE	E2R1A-40
E2R1A-41	CHANGING TABLE - TOILET A159	(2)#12 + #12GW - 3/4" C	1	20 A				1.2 kVA	0.0 kVA	20 A	1	--	SPARE	E2R1A-42
E2R1A-43	FRIDGE - TREAT EXAM ISO A156	(2)#12 + #12GW - 3/4" C	1	20 A	0.2 kVA	0.0 kVA				20 A	1	--	SPARE	E2R1A-44
E2R1A-45	FRIDGE - TREAT EXAM ISO A161	(2)#12 + #12GW - 3/4" C	1	20 A			0.2 kVA	0.0 kVA		20 A	1	--	SPARE	E2R1A-46
E2R1A-47	F-52, F-53, F-54	(2)#12 + #12GW - 3/4" C	1	20 A				0.9 kVA	0.0 kVA	20 A	1	--	SPARE	E2R1A-48
E2R1A-49					0.0 kVA					20 A	1	--	SPARE	E2R1A-50
E2R1A-51							0.0 kVA			20 A	1	--	SPARE	E2R1A-52
E2R1A-53									0.0 kVA	20 A	1	--	SPARE	E2R1A-54
E2R1A-55					0.0 kVA					20 A	1	--	SPARE	E2R1A-56
E2R1A-57							0.0 kVA			20 A	1	--	SPARE	E2R1A-58
E2R1A-59								0.0 kVA		20 A	1	--	SPARE	E2R1A-60
E2R1A-61					0.1 kVA					20 A	1	--	SPARE	E2R1A-62
E2R1A-63							0.1 kVA			30 A	3	(4)#10 + #10GW - 3/4" C	SPD	E2R1A-64
E2R1A-65								0.1 kVA						E2R1A-66
Total Connected Load:					48.2...	14.5 kVA	15.9 kVA	17.7 kVA						
Legend:														
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANELBOARD TOTALS									
REC -		19.2 kVA	76.04%	14.6 kVA	Total Conn. Load: 48.2 kVA									
MECHANICAL -		7.4 kVA	100.00%	7.4 kVA	Total Est. Demand: 43.6 kVA									
LTG -		0.0 kVA	0.00%	0.0 kVA	Total Conn.: 134 A									
EQUIPMENT -		21.3 kVA	100.00%	21.3 kVA	Total Est. Demand.: 121 A									

Branch Panel: E2R0B						LOCATION: ELECTRICAL EQUIPMENT AREA...				VOLTAGE: 120/208 Wye				A.I.C. RATING: 42kA/C			
						SUPPLY FROM: TE2R0B				PHASE: 3				MAINS RATING: 800 A			
						MOUNTING: Surface				WIRES: 4				MCB RATING: 600 A			
														NEUTRAL RATING: 100%			
Notes:																	
CKT	CIRCUIT	WIRE SIZE	P	CB	A	B	C	CB	P	WIRE SIZE	CIRCUIT	CKT					
E2R0B-1	REC - IDF A019	(2)#10 + #10GW - 3/4" C	1	20 A	1.0 kVA	1.0 kVA				20 A	1	(2)#10 + #10GW - 3/4" C	E2R0B-2				
E2R0B-3	REC - IDF A019	(2)#12 + #12GW - 3/4" C	1	20 A		1.0 kVA	1.0 kVA			20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-4				
E2R0B-5	REC - IDF A019	(2)#12 + #12GW - 3/4" C	1	20 A			1.0 kVA	1.0 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-6				
E2R0B-7	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A	1.0 kVA	1.0 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-8				
E2R0B-9	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A		1.0 kVA	1.0 kVA			20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-10				
E2R0B-11	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A			1.0 kVA	1.0 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-12				
E2R0B-13	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A	1.0 kVA	1.0 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-14				
E2R0B-15	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A		1.0 kVA	1.0 kVA			20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-16				
E2R0B-17	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A			1.0 kVA	1.0 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-18				
E2R0B-19	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A	1.0 kVA	1.0 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-20				
E2R0B-21	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A		1.0 kVA	1.0 kVA			20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-22				
E2R0B-23	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A			1.0 kVA	1.0 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-24				
E2R0B-25	REC - MDF B024	(2)#12 + #12GW - 3/4" C	1	20 A	1.0 kVA	1.0 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-26				
E2R0B-27	REC - IDF C005	(2)#12 + #12GW - 3/4" C	1	20 A		1.0 kVA	1.0 kVA			20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-28				
E2R0B-29	REC - IDF C005	(2)#12 + #12GW - 3/4" C	1	20 A			1.0 kVA	1.0 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-30				
E2R0B-31	ACCESS CONTROL	(2)#12 + #12GW - 3/4" C	1	20 A	1.4 kVA	1.0 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-32				
E2R0B-33	ACCESS CONTROL	(2)#12 + #12GW - 3/4" C	1	20 A		1.4 kVA	1.8 kVA			20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-34				
E2R0B-35	ACCESS CONTROL	(2)#12 + #12GW - 3/4" C	1	20 A			1.2 kVA	2.0 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-36				
E2R0B-37	REC - ELEVATOR EL01	(2)#12 + #12GW - 3/4" C	1	20 A	1.6 kVA	0.4 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-38				
E2R0B-39	REC - ELEV EL01 SUMP PUMP	(2)#12 + #12GW - 3/4" C	1	20 A		1.2 kVA	2.7 kVA			20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-40				
E2R0B-41	DIGITAL MIXING VALVE	(2)#12 + #12GW - 3/4" C	1	20 A				0.2 kVA	2.7 kVA	30 A	3	(3)#10 + #10GW - 3/4" C	E2R0B-42				
E2R0B-43	SSCU-6	(2)#12 + #12GW - 3/4" C	2	20 A	1.3 kVA	2.7 kVA				20 A	2	(2)#12 + #12GW - 3/4" C	E2R0B-44				
E2R0B-45					1.3 kVA	1.1 kVA				20 A	2	(2)#12 + #12GW - 3/4" C	E2R0B-46				
E2R0B-47	ROLLING COUNTER DOOR B017	(2)#12 + #12GW - 3/4" C	1	20 A		1.2 kVA	1.1 kVA			20 A	2	(2)#12 + #12GW - 3/4" C	E2R0B-48				
E2R0B-49	ROLLING COUNTER DOOR B017	(2)#12 + #12GW - 3/4" C	1	20 A	1.2 kVA	0.0 kVA				30 A	3	(3)#10 + #10GW - 3/4" C	E2R0B-50				
E2R0B-51	ROLLING SERVICE DOOR B006	(2)#12 + #12GW - 3/4" C	1	20 A		1.2 kVA	0.0 kVA			30 A	3	(3)#10 + #10GW - 3/4" C	E2R0B-52				
E2R0B-53	ROLLING SERVICE DOOR B006	(2)#12 + #12GW - 3/4" C	1	20 A			1.2 kVA	0.0 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-54				
E2R0B-55	DEDICATED GENERATOR CIRCUIT	(2)#10 + #10GW - 3/4" C	1	20 A	0.2 kVA	0.4 kVA				20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-56				
E2R0B-57	DEDICATED GENERATOR CIRCUIT	(2)#10 + #10GW - 3/4" C	1	20 A		0.2 kVA	1.7 kVA			20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-58				
E2R0B-59	DEDICATED GENERATOR CIRCUIT	(3)#10 + #10GW - 3/4" C	3	20 A	0.1 kVA	1.9 kVA		0.1 kVA	1.9 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-60				
E2R0B-61									20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-62					
E2R0B-63									20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-64					
E2R0B-65								1.9 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	E2R0B-66					
E2R0B-67	PANEL E2C1A	(4)#30 + #4GW - 2" C [AL]	3	125 A	15.3...	0.0 kVA				30 A	2	(2)#10 + #10GW - 3/4" C	E2R0B-68				
E2R0B-69						11.3 kVA	0.0 kVA						E2R0B-70				
E2R0B-71					14.5...			13.7 kVA					E2R0B-72				
E2R0B-73	PANEL E2R1A	(4)350CMIL + #10GW - 2-1/2" C [AL]	3	225 A		15.9 kVA							E2R0B-74				
E2R0B-75								17.7 kVA					E2R0B-76				
E2R0B-77					5.1 kVA	0.1 kVA							E2R0B-78				
E2R0B-79													E2R0B-80				
E2R0B-81	PANEL E2R2C	(4)#10 + #6GW - 1-1/2" C [AL]	3	100 A		4.7 kVA	0.1 kVA			30 A	3	(4)#10 + #10GW - 3/4" C	E2R0B-82				
E2R0B-83								5.1 kVA	0.1 kVA			SPD	E2R0B-84				
Total Connected Load:					174.1...	57.3 kVA	56.7 kVA	60.1 kVA									
Legend:																	
LOAD CLASSIFICATION					CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANELBOARD TOTALS						
REC -					102.0 kVA		54.90%		56.0 kVA		Total Conn. Load: 174.1 kVA						
MECHANICAL -					20.3 kVA		100.00%		20.3 kVA		Total Est. Demand: 128.1 kVA						
LTC -					0.0 kVA		0.00%		0.0 kVA		Total Conn.: 463 A						
EQUIPMENT -					47.7 kVA		100.00%		47.7 kVA		Total Est. Demand: 355 A						

M

L

K

J

H

G

F

E

D

C

B

A

Branch Panel: E3R0A													
LOCATION: HS ATHLETIC STORAGE A008						VOLTAGE: 120/208 Wye		A.I.C. RATING: 22KAIC					
SUPPLY FROM: E3R0B						PHASE: 3		MAINS RATING: 225 A					
MOUNTING: Surface						WIRES: 4		MCB RATING: 225 A					
NEUTRAL RATING: 100%													
Notes:													
*PROVIDE GFI-TYPE BREAKER.													
CKT	CIRCUIT	WIRE SIZE	P	CB	A	B	C	CB	P	WIRE SIZE	CIRCUIT	CKT	
E3R0A-1	REC - AUXILIARY GYM A001	(2)#12 + #12GW - 3/4"	1	20 A	1.4 kVA	0.6 kVA			20 A 1	(2)#12 + #12GW - 3/4"	REC - ROOM A002, A003	E3R0A-2	
E3R0A-3	REC - FRIDGE COMM PANTRY A004	(2)#12 + #12GW - 3/4"	1	20 A		1.0 kVA	1.0 kVA		20 A 1	(2)#12 + #12GW - 3/4"	REC - CORR A02, STG A005	E3R0A-4	
E3R0A-5	REC - CONCESSIONS A009	(2)#12 + #12GW - 3/4"	1	20 A			1.4 kVA	1.2 kVA	20 A 1	(2)#12 + #12GW - 3/4"	REC - EVENT LAVS/PIPE STORAGE	E3R0A-6	
E3R0A-7	REC - FRIDGE CONCESSIONS A009	(2)#12 + #12GW - 3/4"	1	20 A	1.0 kVA	1.2 kVA			20 A 1	(2)#12 + #12GW - 3/4"	REC - CORRIDOR A03	E3R0A-8	
E3R0A-9	REC - HS LOCKR ROOM GEN RECS	(2)#12 + #12GW - 3/4"	1	20 A		0.6 kVA	1.0 kVA		20 A 1	(2)#12 + #12GW - 3/4"	REC - ICE MAKER TRAINING ROOM	E3R0A-10	
E3R0A-11	REC - HS LOCKR ROOM GEN RECS	(2)#12 + #12GW - 3/4"	1	20 A			0.8 kVA	0.2 kVA	20 A 1	(2)#12 + #12GW - 3/4"	EWC - HS LOCKER ROOM A013*	E3R0A-12	
E3R0A-13	FRIDGE - TRAINING ROOM A012	(2)#12 + #12GW - 3/4"	1	20 A	0.2 kVA	0.2 kVA			20 A 1	(2)#12 + #12GW - 3/4"	EWC - HS LOCKER ROOM A016*	E3R0A-14	
E3R0A-15	REC - GYMNASIUM A006	(2)#12 + #12GW - 3/4"	1	20 A		0.6 kVA	0.8 kVA		20 A 1	(2)#12 + #12GW - 3/4"	REC - FITNESS/ CARDIO RM A017	E3R0A-16	
E3R0A-17	REC - STG ROOMS A024, A008	(2)#12 + #12GW - 3/4"	1	20 A			0.8 kVA	0.5 kVA	20 A 1	(2)#12 + #12GW - 3/4"	REC - FITNESS/ CARDIO RM A017	E3R0A-18	
E3R0A-19	REC - FITNESS/ CARDIO RM A017	(2)#12 + #12GW - 3/4"	1	20 A	0.5 kVA	0.5 kVA			20 A 1	(2)#12 + #12GW - 3/4"	REC - FITNESS/ CARDIO RM A017	E3R0A-20	
E3R0A-21	REC - FITNESS/ CARDIO RM A017	(2)#12 + #12GW - 3/4"	1	20 A		0.5 kVA	0.5 kVA		20 A 1	(2)#12 + #12GW - 3/4"	REC - FITNESS/ CARDIO RM A017	E3R0A-22	
E3R0A-23	REC - FITNESS/ CARDIO RM A017	(2)#12 + #12GW - 3/4"	1	20 A			0.5 kVA	0.5 kVA	20 A 1	(2)#12 + #12GW - 3/4"	REC - FITNESS/ CARDIO RM A017	E3R0A-24	
E3R0A-25	REC - FITNESS/ CARDIO RM A017	(2)#12 + #12GW - 3/4"	1	20 A	0.5 kVA	0.5 kVA			20 A 1	(2)#12 + #12GW - 3/4"	REC - FITNESS/ CARDIO RM A017	E3R0A-26	
E3R0A-27	REC - FITNESS/ CARDIO RM A017	(2)#12 + #12GW - 3/4"	1	20 A		0.5 kVA	0.5 kVA		20 A 1	(2)#12 + #12GW - 3/4"	REC - FITNESS/ CARDIO RM A017	E3R0A-28	
E3R0A-29	REC - FITNESS/ CARDIO RM A017	(2)#12 + #12GW - 3/4"	1	20 A			0.8 kVA	0.8 kVA	20 A 1	(2)#12 + #12GW - 3/4"	REC - MS LOCKR ROOM GEN RECS	E3R0A-30	
E3R0A-31	EWC* - MS LOCKER ROOM A020	(2)#12 + #12GW - 3/4"	1	20 A	0.2 kVA	0.6 kVA			20 A 1	(2)#12 + #12GW - 3/4"	REC - MS LOCKR ROOM GEN RECS	E3R0A-32	
E3R0A-33	EWC* - MS LOCKER ROOM A022	(2)#12 + #12GW - 3/4"	1	20 A		0.2 kVA	1.6 kVA		20 A 1	(2)#12 + #12GW - 3/4"	REC - HS WEIGHT ROOM A018	E3R0A-34	
E3R0A-35	MAIN SCOREBOARD	(2)#12 + #12GW - 3/4"	1	20 A			0.5 kVA	1.2 kVA	20 A 1	(2)#12 + #12GW - 3/4"	REC - RM A027, A026, A028, A029	E3R0A-36	
E3R0A-37	F-23, F-24	(2)#12 + #12GW - 3/4"	1	20 A	0.6 kVA	0.5 kVA			30 A 2	(3)#10 + #10GW - 3/4"	REC - DRYER A029	E3R0A-38	
E3R0A-39	REC - WASHER A028	(2)#12 + #12GW - 3/4"	1	20 A		1.0 kVA	0.5 kVA		20 A 1	(2)#12 + #12GW - 3/4"	REC - CORRIDOR A04	E3R0A-40	
E3R0A-41	REC - WASHER A029	(2)#12 + #12GW - 3/4"	1	20 A			1.0 kVA	1.0 kVA	20 A 1	(2)#12 + #12GW - 3/4"	REC - LAUNDRY A029	E3R0A-42	
E3R0A-43	ROLLING DOOR - CONCESSIONS	(2)#12 + #12GW - 3/4"	1	20 A	1.2 kVA	0.8 kVA			20 A 1	(2)#12 + #12GW - 3/4"	REC - CORRIDOR A04	E3R0A-44	
E3R0A-45	REC - MS GYMNASIUM A025	(2)#12 + #12GW - 3/4"	1	20 A		0.8 kVA	1.7 kVA		20 A 1	(2)#12 + #12GW - 3/4"	GYM DIVIDER CURTAIN	E3R0A-46	
E3R0A-47	REC - MS WEIGHT ROOM A031	(2)#12 + #12GW - 3/4"	1	20 A			1.4 kVA	0.6 kVA	20 A 1	(2)#12 + #12GW - 3/4"	ECRP-1, 2	E3R0A-48	
E3R0A-49	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A	0.3 kVA	0.3 kVA			20 A 2	(2)#12 + #12GW - 3/4"	HS MOTORIZED BACKSTOP	E3R0A-50	
E3R0A-51	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.3 kVA		20 A 2	(2)#12 + #12GW - 3/4"	HS BLEACHERS	E3R0A-52	
E3R0A-53	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A	0.3 kVA	0.0 kVA		0.3 kVA	0.0 kVA	30 A 2	(2)#10 + #10GW - 3/4"	HS BLEACHERS	E3R0A-54
E3R0A-55	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.0 kVA		30 A 2	(2)#10 + #10GW - 3/4"	HS BLEACHERS	E3R0A-56	
E3R0A-57	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.0 kVA		30 A 2	(2)#10 + #10GW - 3/4"	HS BLEACHERS	E3R0A-58	
E3R0A-59	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.0 kVA		30 A 2	(2)#10 + #10GW - 3/4"	HS BLEACHERS	E3R0A-60	
E3R0A-61	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A	0.3 kVA	0.0 kVA			30 A 2	(2)#10 + #10GW - 3/4"	HS BLEACHERS	E3R0A-62	
E3R0A-63	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.0 kVA		30 A 2	(2)#10 + #10GW - 3/4"	HS BLEACHERS	E3R0A-64	
E3R0A-65	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A	0.3 kVA	0.0 kVA			30 A 2	(2)#10 + #10GW - 3/4"	HS BLEACHERS	E3R0A-66	
E3R0A-67	HS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.0 kVA		30 A 2	(2)#10 + #10GW - 3/4"	HS BLEACHERS	E3R0A-68	
E3R0A-69	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.0 kVA		30 A 2	(2)#10 + #10GW - 3/4"	MS BLEACHERS	E3R0A-70	
E3R0A-71	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.0 kVA		30 A 2	(2)#10 + #10GW - 3/4"	MS BLEACHERS	E3R0A-72	
E3R0A-73	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A	0.3 kVA	0.0 kVA			30 A 2	(2)#10 + #10GW - 3/4"	MS BLEACHERS	E3R0A-74	
E3R0A-75	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.0 kVA		20 A 1	(2)#12 + #12GW - 3/4"	EWC* - CORRIDOR A02	E3R0A-76	
E3R0A-77	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A	1.3 kVA	0.2 kVA			20 A 1	(2)#12 + #12GW - 3/4"	EWC* - CORRIDOR A02	E3R0A-78	
E3R0A-79	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.2 kVA		20 A 1	(2)#12 + #12GW - 3/4"	EWC* - CORRIDOR A03	E3R0A-80	
E3R0A-81	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.5 kVA		20 A 1	(2)#12 + #12GW - 3/4"	EWC* - CORRIDOR A02	E3R0A-82	
E3R0A-83	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.5 kVA		20 A 1	(2)#12 + #12GW - 3/4"	SCOREBOARD	E3R0A-84	
E3R0A-85	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.5 kVA		20 A 1	(2)#12 + #12GW - 3/4"	SCOREBOARD	E3R0A-86	
E3R0A-87	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.5 kVA		20 A 1	(2)#12 + #12GW - 3/4"	SCOREBOARD	E3R0A-88	
E3R0A-89	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A		0.3 kVA	0.6 kVA		25 A 1	(2)#10 + #10GW - 3/4"	ARCHERY NET	E3R0A-90	
E3R0A-91	MS MOTORIZED BACKSTOP	(2)#12 + #12GW - 3/4"	2	20 A	0.3 kVA	0.6 kVA			20 A 1	(2)#12 + #12GW - 3/4"	GYM ROLLER SHADES	E3R0A-92	
E3R0A-93	REC - FITNESS/ CARDIO RM A017	(2)#12 + #12GW - 3/4"	1	20 A		0.5 kVA	0.6 kVA		20 A 1	(2)#12 + #12GW - 3/4"	GYM ROLLER SHADES	E3R0A-94	
E3R0A-95	REC - FITNESS/ CARDIO RM A017	(2)#12 + #12GW - 3/4"	1	20 A			0.5 kVA	1.2 kVA	20 A 1	(2)#12 + #12GW - 3/4"	GYM ROLLER SHADES	E3R0A-96	
E3R0A-97	HP-0.04	(2)#12 + #12GW - 3/4"	1	20 A	1.5 kVA	0.6 kVA			20 A 1	(2)#12 + #12GW - 3/4"	AUX GYM ROLLER SHADES	E3R0A-98	
E3R0A-99	HP-0.09	(2)#12 + #12GW - 3/4"	1	20 A		1.4 kVA	1.2 kVA		20 A 1	(2)#12 + #12GW - 3/4"	HAND DRYERS - LAVS A010	E3R0A-100	
E3R0A-101	HP-1.10	(2)#12 + #12GW - 3/4"	1	20 A		1.4 kVA	1.2 kVA		20 A 1	(2)#12 + #12GW - 3/4"	HAND DRYERS - LAVS A010	E3R0A-102	
E3R0A-103	HP-1.11	(2)#12 + #12GW - 3/4"	1	20 A	1.4 kVA	1.2 kVA			20 A 1	(2)#12 + #12GW - 3/4"	HAND DRYERS - LAVS A011	E3R0A-104	
E3R0A-105	HP-1.12	(2)#12 + #12GW - 3/4"	1	20 A		1.4 kVA	1.2 kVA		20 A 1	(2)#12 + #12GW - 3/4"	HAND DRYERS - LAVS A011	E3R0A-106	
E3R0A-107	HOOP SHOT CLOCK	(2)#12 + #12GW - 3/4"	1	20 A			0.5 kVA	1.2 kVA	20 A 1	(2)#12 + #12GW - 3/4"	HAND DRYERS - LOCKER A013	E3R0A-108	
E3R0A-109	HOOP SHOT CLOCK	(2)#12 + #12GW - 3/4"	1	20 A	0.5 kVA	1.2 kVA			20 A 1	(2)#12 + #12GW - 3/4"	HAND DRYERS - LOCKER A013	E3R0A-110	
E3R0A-111	HAND DRYERS - LOCKER A020	(2)#12 + #12GW - 3/4"	1	20 A		1.2 kVA	1.2 kVA		20 A 1	(2)#12 + #12GW - 3/4"	HAND DRYERS - LOCKER A016	E3R0A-112	
E3R0A-113	HAND DRYERS - LOCKER A020	(2)#12 + #12GW - 3/4"	1	20 A			1.2 kVA	1.2 kVA	20 A 1	(2)#12 + #12GW - 3/4"	HAND DRYERS - LOCKER A016	E3R0A-114	
E3R0A-115	HAND DRYERS - LOCKER A022	(2)#12 + #12GW - 3/4"	1	20 A	1.2 kVA	0.2 kVA			25 A 1	(2)#10 + #10GW - 3/4"	ARCHERY NET	E3R0A-116	
E3R0A-117	HAND DRYERS - LOCKER A022	(2)#12 + #12GW - 3/4"	1	20 A		1.2 kVA	0.2 kVA		30 A 1	(2)#10 + #10GW - 3/4"	BATTING CAGE	E3R0A-118	
E3R0A-119	HAND DRYERS - TOILET A016A	(2)#12 + #12GW - 3/4"	1	20 A			1.2 kVA	0.9 kVA	20 A 3	(3)#10 + #10GW - 3/4"	MAT HOIST	E3R0A-120	
E3R0A-121	HAND DRYERS - TOILET A020A	(2)#12 + #12GW - 3/4"	1	20 A	1.2 kVA	0.9 kVA			20 A 3	(3)#10 + #10GW - 3/4"	MAT HOIST	E3R0A-122	
E3R0A-123	SPARE	--	1	20 A		0.0 kVA	0.9 kVA		20 A 1	--	SPARE	E3R0A-124	
E3R0A-125	SPARE	--	1	20 A			0.0 kVA	0.0 kVA	20 A 1	--	SPARE	E3R0A-126	
E3R0A-127	SPARE	--	1	20 A	0.0 kVA	0.0 kVA			20 A 1	--	SPARE	E3R0A-128	
E3R0A-129	SPARE	--	1	20 A		0.0 kVA	0.0 kVA		20 A 1	--	SPARE	E3R0A-130	
E3R0A-131									20 A 1	--	SPARE	E3R0A-132	
E3R0A-133					0.0 kVA				20 A 1	--	SPARE	E3R0A-134	
E3R0A-135												E3R0A-136	
E3R0A-137												E3R0A-138	
E3R0A-139					0.1 kVA							E3R0A-140	
E3R0A-141						0.1 kVA			30 A 3	(4)#10 + #10GW - 3/4"	SPD	E3R0A-142	
E3R0A-143								0.1 kVA				E3R0A-144	
Total Connected Load: 80.6... 25.1 kVA 26.7 kVA 28.9 kVA													
Legend:													
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANELBOARD TOTALS					
REC -		35.4 kVA		64.12%		22.7 kVA		Total Conn. Load: 80.6 kVA					
MECHANICAL -		8.5 kVA		100.00%		8.5 kVA		Total Est. Demand: 57.9 kVA					
LTC -		0.0 kVA		0.00%		0.0 kVA		Total Conn.: 324 A					
EQUIPMENT -		36.1 kVA		100.00%		36.1 kVA		Total Est. Demand.: 189 A					

M

L

K

J

H

G

F

E

D

C

B

A

DEVICE SCHEDULE		
DEVICE SYMBOL	DESCRIPTION	DEVICE
BL	ETC BLUE LIGHT LOCATIONS- RECEPTACLE HEIGHT	ONE GANG
CP	STUDIO LIGHTING CEILING BOX	ETC 9102A-DMX-U
CS	LIGHTING CONTROL SWITCH	ONE GANG - SWITCH HEIGHT
CS1	LIGHTING CONTROL SWITCH	ONE GANG
DMX	DMX PLUG IN STATION	ONE GANG
ETS	EMERGENCY LIGHTING TRANSFER SWITCH	CUSTOM
ES	EMERGENCY STOP BUTTON	ETC FOUNDATION RIGGING CONTROLLER - SWITCH HEIGHT
JB1	GRIDIRON JUNCTION BOX	8"x8" BOX FOR CONNECTION TO TORMENTOR
JB2	TORMENTOR CONNECTION	CUSTOM
LCR	LIGHTING CONTROL RACK	8"x8"x6"
LDR	LIGHTING DIMMING RACK TYPE 1	CUSTOM
NET	NET PLUG IN STATION	ONE GANG ECPB-NET
RC1	MAIN RIGGING CONTROL STATION	ETC ESBS
RC2	SECONDARY RIGGING CONTROL STATION	ETC QT4
UPT	LIGHTING CONTROL PANEL	CUSTOM
WP1	THEATER LIGHTING WALL POCKET	ETC 9202

CURTAIN SCHEDULE							
AUDITORIUM							
Line #	Name	Quantity	Curtain Fabric	Color	Method	Curtain Dimensions	Track Lengths
1	Main Valance	1	25oz. IFR Velour, 50% Full	Coordinate Final Color With Architect	Air Craft Cable	66" Wide X 6' High	
2	Projection Screen	1		For Reference Only	For Reference Only	For Reference Only	Coordinate W/ Supply Contract Installer
3	Bi-Parting Main Act	2	25oz. IFR Velour, 50% Full	Coordinate Final Color With Architect	Draw	32" Wide X 25' High (CURTAIN HEIGHT SUBJECT TO CHANGE)	
4	Border #1	1	25oz. IFR Velour, 50% Full	Black	Air Craft Cable	60" Wide X 6' High	60'
5	1st Electric	1	-		Air Craft Cable		
6	Leg #1	2	25oz. IFR Velour, 50% Full	Black	Track	8' Wide X 25' High (CURTAIN HEIGHT SUBJECT TO CHANGE)	8'-0 (each side) W/ Rotor
7	Empty	1	-				
8	Border #2	1	25oz. IFR Velour, 50% Full	Black	Air Craft Cable	60" Wide X 6' High	60'
9	2nd Electric	1			Air Craft Cable		
10	Empty	1			Air Craft Cable		
11	Empty	1			Air Craft Cable		
12	Leg #2	2	25oz. IFR Velour, 50% Full	Black	Track	8' Wide X 25' High (CURTAIN HEIGHT SUBJECT TO CHANGE)	8'-0 (each side) W/ Rotor
13	Empty						
14	Border #3	1	25oz. IFR Velour, 50% Full	Black	Air Craft Cable	60" Wide X 6' High	60'
15	3rd Electric	1			Air Craft Cable		
16	Mid Stage Traveler	2	25oz. IFR Velour, 50% Full	Black	Draw	32" Wide X 25' High (CURTAIN HEIGHT SUBJECT TO CHANGE)	60'
17	Empty				-		
18	Empty				-		
19	Leg #3	2	25oz. IFR Velour, 50% Full	Black	Track	8' Wide X 25' High (CURTAIN HEIGHT SUBJECT TO CHANGE)	8'-0 (each side) W/ Rotor
20	Empty	1			Air Craft Cable		
21	Border #4	1	25oz. IFR Velour, 50% Full	Black	Air Craft Cable	60" Wide X 6' High	60'
22	4th Electric	1			Air Craft Cable		
23	Empty				-		
24	Empty				-		
25	Leg #4	2	25oz. IFR Velour, 50% Full	Black	Track	8' Wide X 25' High (CURTAIN HEIGHT SUBJECT TO CHANGE)	8'-0 (each side) W/ Rotor
26	Rear Traveler	2	25oz. IFR Velour, 50% Full	Black	Draw	32" Wide X 25' High (CURTAIN HEIGHT SUBJECT TO CHANGE)	60'
27	Cyclorama	1	Natural Muslin, Flame Resistant, Seamless, Color White	Coordinate Final Color With Architect	Track	60" Wide X 25' High (CURTAIN HEIGHT SUBJECT TO CHANGE)	60'
28	Black Out	1	25oz. IFR Velour, 25% Full	Black	Track	60" Wide X 25' High (CURTAIN HEIGHT SUBJECT TO CHANGE)	60'

ADD

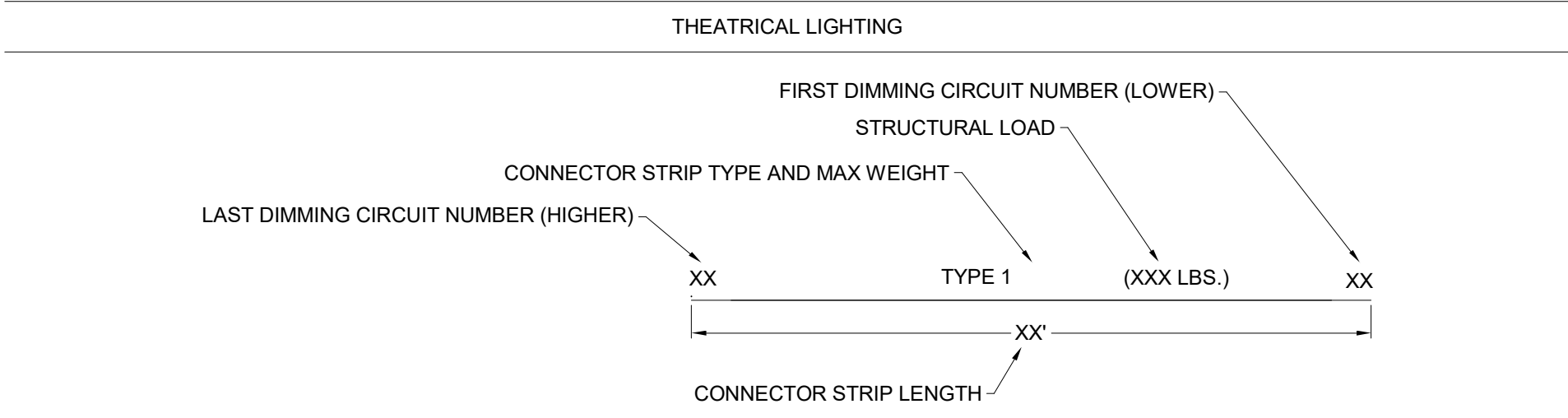
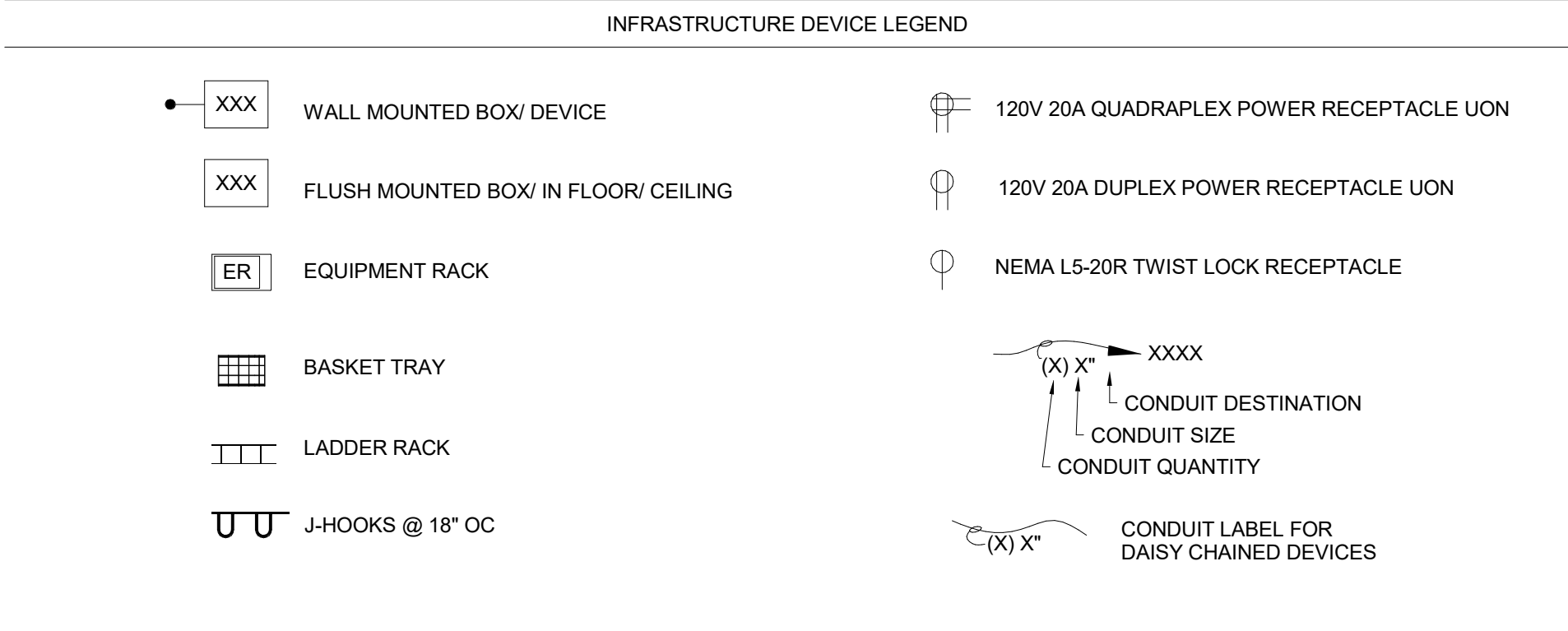
CIRCUIT SCHEDULE		
RELAY CIRCUIT ID #	AUDITORIUM CIRCUIT LOCATION (LDR1)	MODULE
1	FOH 1	
2	FOH 1	
3	FOH 1	
4	FOH 1	
5	FOH 2	
6	FOH 2	
7	FOH 2	
8	1st ELECTRIC	
9	1st ELECTRIC	
10	1st ELECTRIC	
11	1st ELECTRIC	
12	1st ELECTRIC	
13	1st ELECTRIC	
14	1st ELECTRIC	
15	1st ELECTRIC	
16	2nd ELECTRIC	
17	2nd ELECTRIC	
18	2nd ELECTRIC	
19	2nd ELECTRIC	
20	2nd ELECTRIC	
21	2nd ELECTRIC	
22	3rd ELECTRIC	
23	3rd ELECTRIC	
24	3rd ELECTRIC	
25	3rd ELECTRIC	
26	3rd ELECTRIC	
27	3rd ELECTRIC	
28	4th ELECTRIC	
29	4th ELECTRIC	
30	4th ELECTRIC	
31	4th ELECTRIC	
32	4th ELECTRIC	
33	4th ELECTRIC	
34	TORMENTOR 1	
35	TORMENTOR 2	
36	TORMENTOR 3	
37	TORMENTOR 4	
38	WP1	
39	WP1	
40	WP1	
41	WP1	
42	WP1	
43	WP1	
44	aisle LIGHTING	
45	HOUSE LIGHTS	
46	HOUSE LIGHTS	
47	HOUSE LIGHTS	
48	HOUSE LIGHTS	

ADD

SHEET INDEX	
TE001	NOTES
TE101D	LEVEL 1 PLAN - AREA D - THEATER
TE102D	LEVEL 2 PLAN - AREA D - THEATER
TE103D	CATWALK PLAN - THEATER
TE104D	CONTROL BOOTH PLAN - THEATER
TE111D	LEVEL 1 RCP - AREA D - THEATER
TE112D	LEVEL 2 RCP - AREA D - THEATER
TE113D	CONTROL BOOTH RCP - THEATER
TE201	SECTIONS/ ELEVATIONS
TE401	COMPOSITE STAGE ENLARGEMENT
TE402	ENLARGEMENTS
TE403	ENLARGEMENTS - BLUE LIGHT
TE501	DETAILS
TE601	RISER DIAGRAMS
TE602	LIGHTING PLOT
TE901	DETAILS
TE902	DETAILS

- GENERAL PROJECT NOTES
- CONDUIT SIZING NOTES ARE APPROXIMATE BASED ON CABLE FILLS. CONFIRM SIZING BASED ON SITE CONDITIONS AND CONDUIT PATH.
 - CONDUIT ARROWS ON DRAWINGS DO NOT SHOW DIRECTION OR PATH OF CONDUIT.
 - ALL CONDUIT IS 3/4" UNLESS OTHERWISE NOTED.
 - ALL CONDUIT SHALL BE EQUIPPED WITH A NYLON BUSHING AND PULL-STRING WITH MINIMUM TEST RATING OF 91 LBS.
 - ANY CONDUIT THAT IS NOT UTILIZED SHALL HAVE PULL STRING FOR FUTURE USE.
 - DEVICE ICONS ARE NOT SCALED. DEVICE WILL BE CENTERED WHERE THE SYMBOL IS LOCATED AT EACH FLOOR AND WALL LOCATION.
 - NOTES DO NOT INCLUDE CONDUIT FOR ELECTRICAL.
 - ALL FIXTURE BOXES ASSUME DOUBLE DEEP UON.
 - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

ABBREVIATIONS			
AAC	ABOVE ACCESSIBLE CEILING	MH	MANHOLE OR MAINTENANCE HOLE
ACS	ACCESS CONTROL SYSTEM	MIC	MICROPHONE
ACT	ACOUSTICAL CEILING TILE	MM	MULTIMODE FIBER
AFF	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED
AFG	ABOVE FINISHED GRADE	NIC	NOT IN CONTRACT
AHJ	AUTHORITY HAVING JURISDICTION	NO	NORMALLY OPEN
ATS	AUTOMATIC TRANSFER SWITCH	NTS	NOT TO SCALE
AVC	AUDIOVISUAL CONTRACTOR	OSP	OUTSIDE PLANT
AVCT	AUDIOVISUAL CABLE TRAY	PB	PULL BOX
AVR	AUDIO VIDEO RACK	PBB	PRIMARY BONDING BUSBAR
AWG	AMERICAN WIRE GAUGE	PC	PLUMBING CONTRACTOR
BAS	BUILDING AUTOMATION SYSTEM	POU	POWER DISTRIBUTION UNIT
BBC	BACKBONE BONDING CONDUCTOR	POE	POWER OVER ETHERNET
BET	BUILDING ENTRANCE TERMINAL	PON	PASSIVE OPTICAL NETWORK
BFC	BELOW FINISHED CEILING	PP	PATCH PANEL
BFF	BELOW FINISHED FLOOR	PSRH	PROJECT STANDARD RECEPTACLE HEIGHT
BICSI	BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL	PSHH	PROJECT STANDARD SWITCH HEIGHT
BMS	BUILDING MANAGEMENT SYSTEM	PTZ	PAN/TILT/ ZOOM
BRF	BELOW RAISED FLOOR	RAF	RAISED ACCESS FLOOR
BTS	BASE TRANSCIVER STATION	RAU	REMOTE ANTENNA UNIT
CATV	CABLE TELEVISION	RC	REMOTE CONTROL
CCTV	CLOSED CIRCUIT TELEVISION	RCP	REFLECTED CEILING PLAN
CKT	CIRCUIT	RGS	RIGID GALVANIZED STEEL
CT	CABLE TRAY	SATV	SATELLITE ANTENNA TELEVISION
DAS	DISTRIBUTED ANTENNA SYSTEM	SBB	SECONDARY BONDING BUSBAR
EC	ELECTRICAL CONTRACTOR	SC	SECURITY CONTRACTOR
ENR	ENTRANCE FACILITY	SCC	STRUCTURED CABLING CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING	SEC	STAGE EQUIPMENT CONTRACTOR
ER	EQUIPMENT ROOM	SM	SINGLE MODE FIBER
ESD	ELECTROSTATIC DISSIPATIVE (FLOORING)	SP	SPEAKER
ESS	ELECTRONIC SAFETY AND SECURITY	STC	STUB TO CABLE TRAY
ETS	EMERGENCY TRANSFER SWITCH	STD	STANDARD
FA	FIRE ALARM	STP	SHIELDED TWISTED PAIR CABLE
FACP	FIRE ALARM CONTROL PANEL	TBB	TELECOMMUNICATIONS BONDING BACKBONE
FOC	FIBER OPTIC CABLE	TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
FOV	FIELD OF VIEW	TBD	TO BE DETERMINED
FRT	FIRE RETARDANT TREATED	TC	TELECOM CLOSET
GC	GENERAL CONTRACTOR	TE	TELECOMMUNICATIONS ENCLOSURE
GE	GROUNDING EQUALIZER	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
GND	GROUND	TGMB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
GPS	GLOBAL POSITIONING SYSTEM	TR	TELECOMMUNICATIONS ROOM
GUI	GRAPHICAL USER INTERFACE	TYP	TYPICAL
HH	HAND HOLE	UG	UNDER GROUND
HVAC	"HEATING, VENTILATION, AND AIR CONDITIONING"	UON	UNLESS OTHERWISE NOTED
ID	INSIDE DIAMETER	UTP	UNSHIELDED TWISTED PAIR CABLE
IDF	INTERMEDIATE DISTRIBUTION FACILITY	VOIP	VOICE OVER IP
JB	JUNCTION BOX	W/L	WIRELESS
KO	KNOCK OUT	WAN	WIDE AREA NETWORK
LAN	LOCAL AREA NETWORK	WAP	"WIRELESS ACCESS POINT, WIFI"
LCR	LIGHTING CONTROL RACK	WP	WEATHERPROOF
LDR	LIGHTING DIMMER RACK	W	WATT
LVC	LOW VOLTAGE CONTROLLER	WPS	WINDOW POSITION SENSOR
MC	MECHANICAL CONTRACTOR		
MDF	MAIN DISTRIBUTION FACILITY		
MER	MAIN EQUIPMENT ROOM		



NOTES

DATE	DESCRIPTION
03.25.2024	ADDENDUM 3

TE001

12/22/2023
BID SET

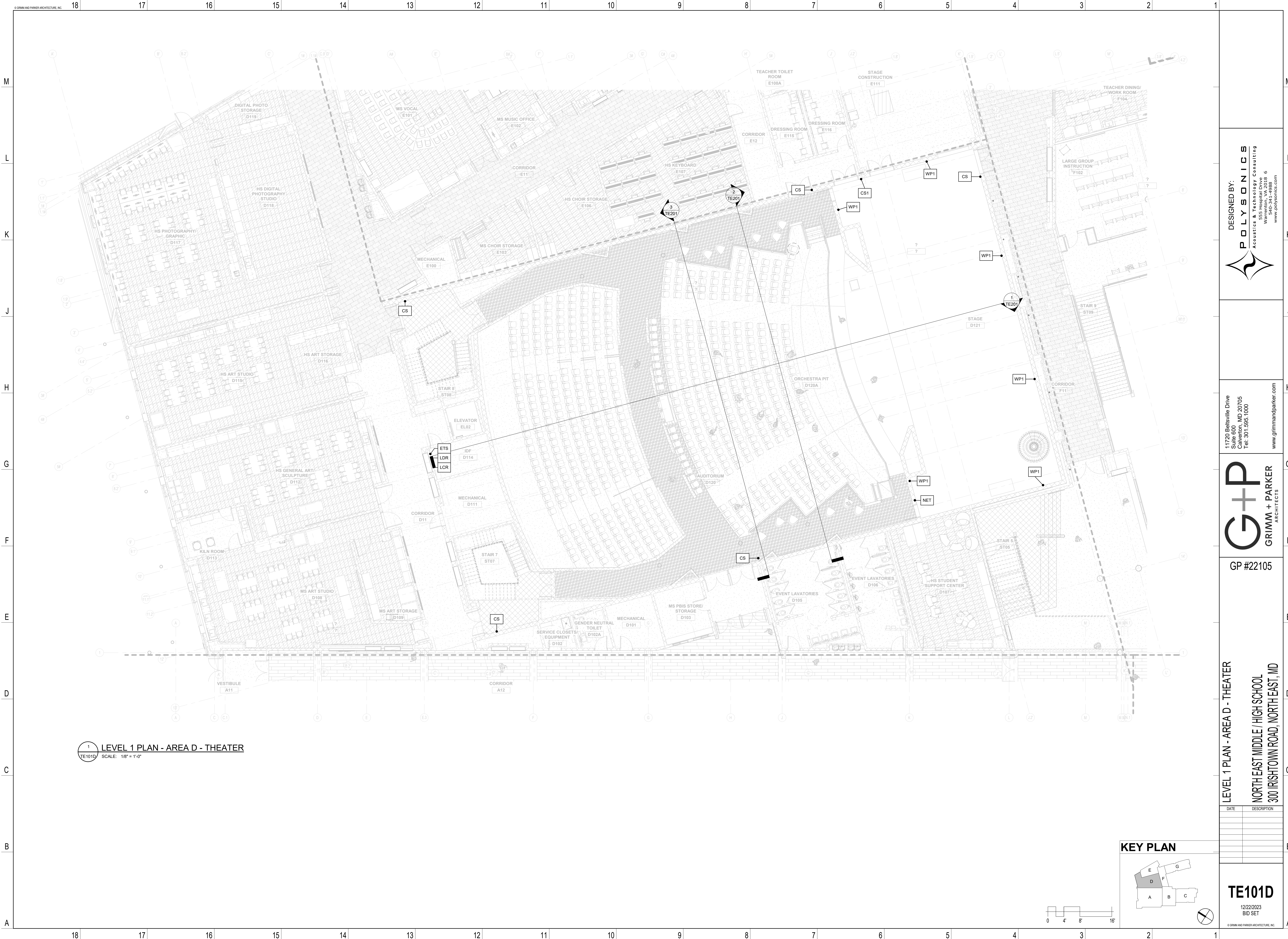
GP #22105

NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

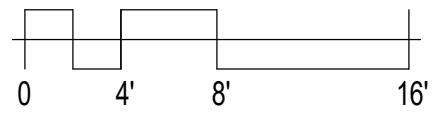
DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
5555 Hospital Drive
Wentzville, MO 63386
5740-341-4498
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel. 301.595.1000
www.grimmandparker.com

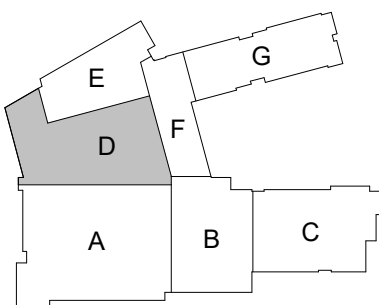
GRIMM + PARKER
ARCHITECTS



1 LEVEL 1 PLAN - AREA D - THEATER
TE101D SCALE: 1/8" = 1'-0"



KEY PLAN



DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Warner, MD 21156
Tel: 410-341-4498
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



GP #22105

LEVEL 1 PLAN - AREA D - THEATER
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

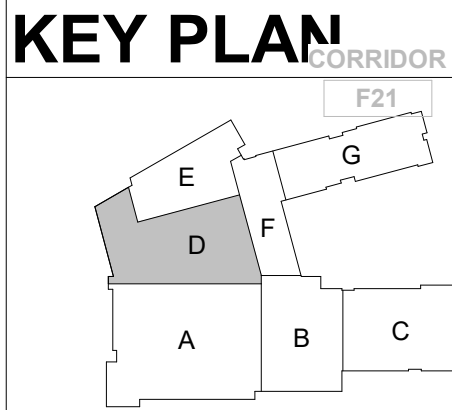
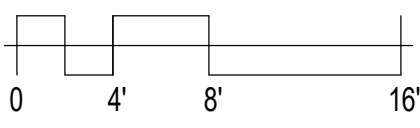
DATE	DESCRIPTION

TE101D
12/22/2023
BID SET



1 LEVEL 2 PLAN - AREA D - THEATER
SCALE: 1/8" = 1'-0"

KEY NOTE:
1. "JB2" FOR TORMENTOR LOCATIONS. COORDINATE FINAL LOCATION WITH TORMENTOR BAR. THEATER LIGHTING CONTRACTOR TO COORDINATE FINAL LOCATION.



DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Wilmington, DE 19806
Tel: 301-341-4988
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

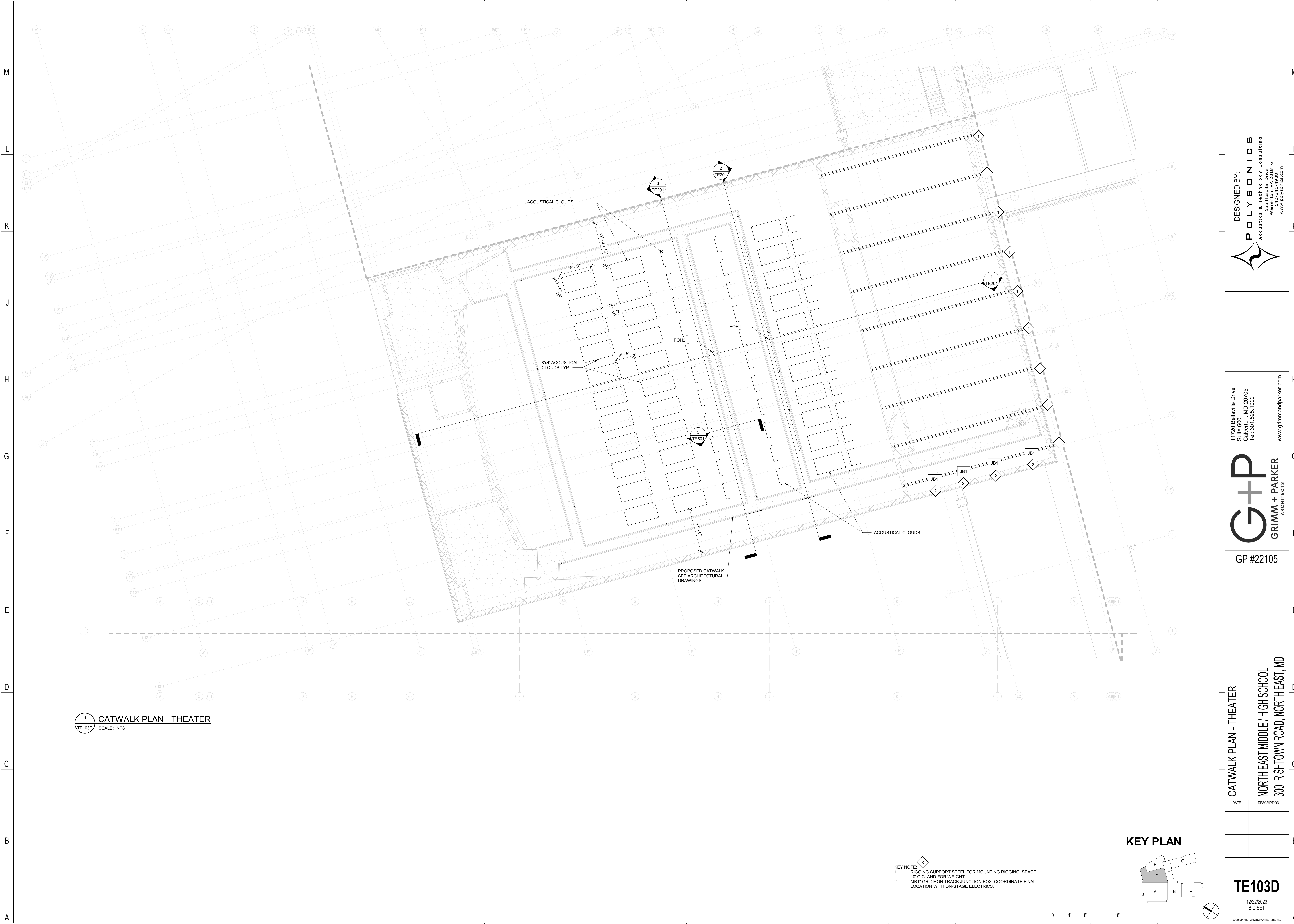
GP #22105

LEVEL 2 PLAN - AREA D - THEATER
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

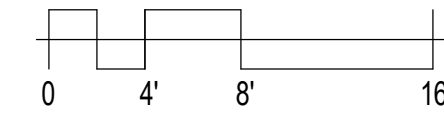
TE102D
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.

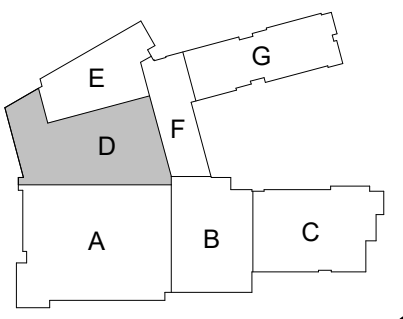


1 CATWALK PLAN - THEATER
TE103D SCALE: NTS

KEY NOTE:
1. RIGGING SUPPORT STEEL FOR MOUNTING RIGGING. SPACE 10' O.C. AND FOR WEIGHT.
2. 'JB1' GRIDIRON TRACK JUNCTION BOX. COORDINATE FINAL LOCATION WITH ON-STAGE ELECTRICS.



KEY PLAN



DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Wilmington, DE 19806
Tel: 301-441-4498
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

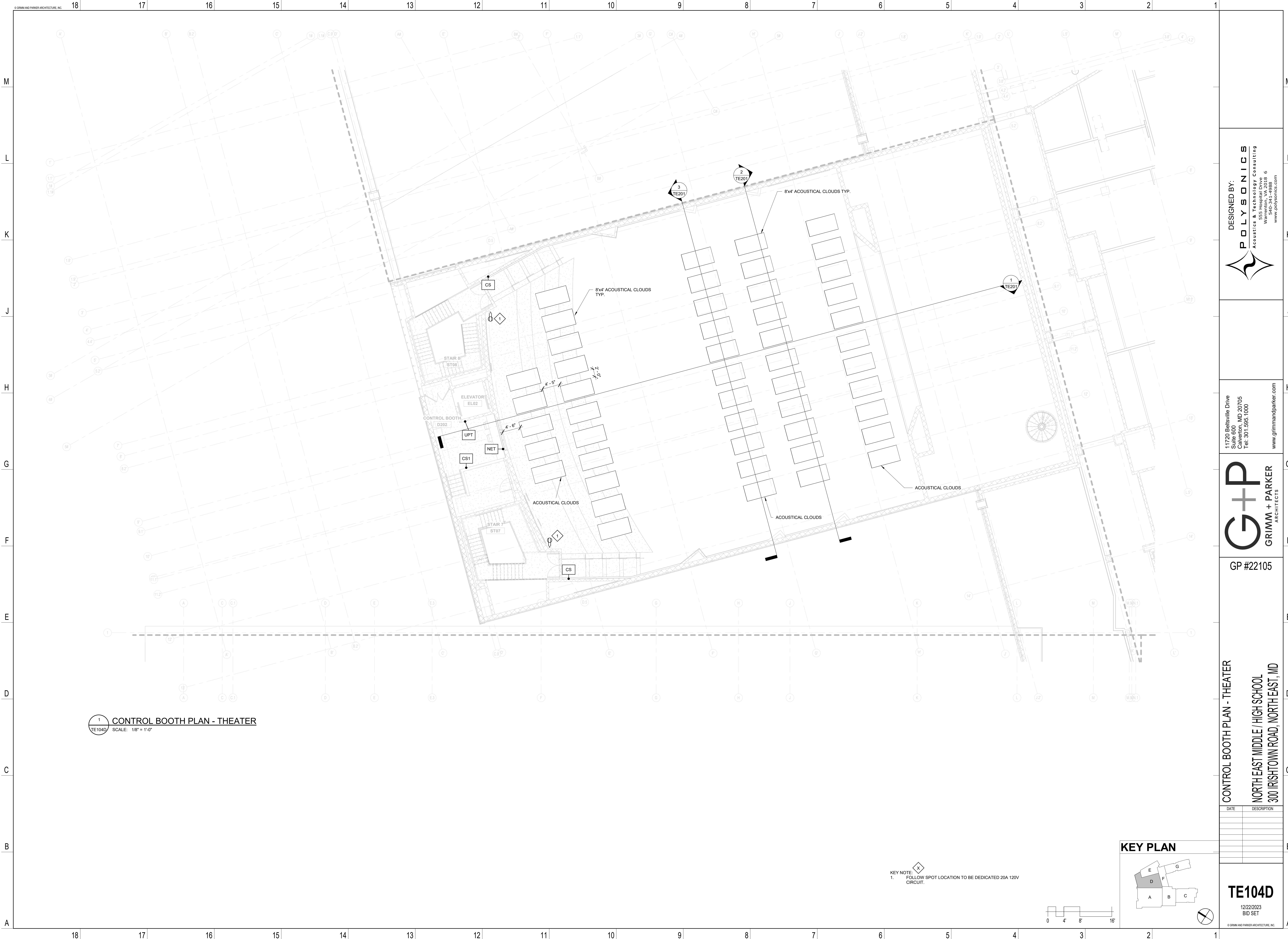
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

CATWALK PLAN - THEATER
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

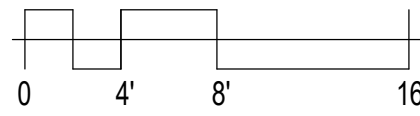
DATE	DESCRIPTION

TE103D
12/22/2023
BID SET

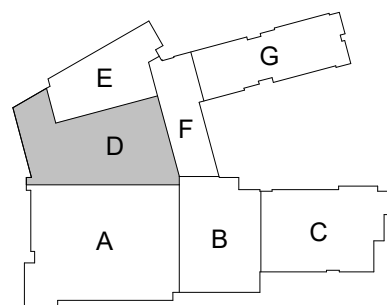


1 CONTROL BOOTH PLAN - THEATER
TE104D SCALE: 1/8" = 1'-0"

KEY NOTE:
1. FOLLOW SPOT LOCATION TO BE DEDICATED 20A 120V CIRCUIT.



KEY PLAN



DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Wilmington, DE 19806
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

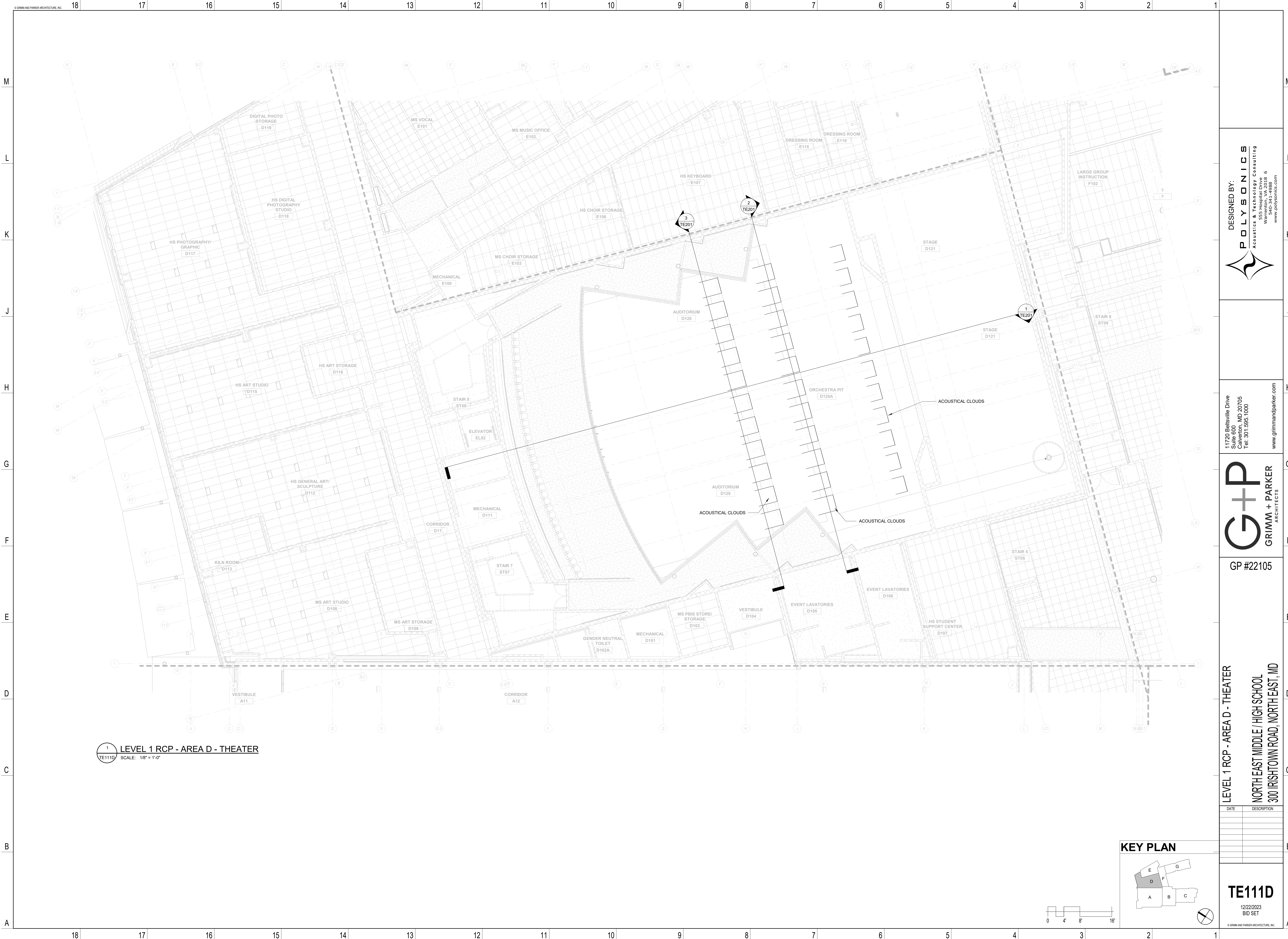


GP #22105

CONTROL BOOTH PLAN - THEATER
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

TE104D
12/22/2023
BID SET



DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Wilmington, DE 19806
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



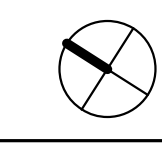
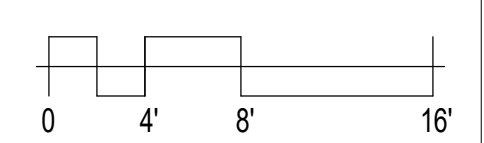
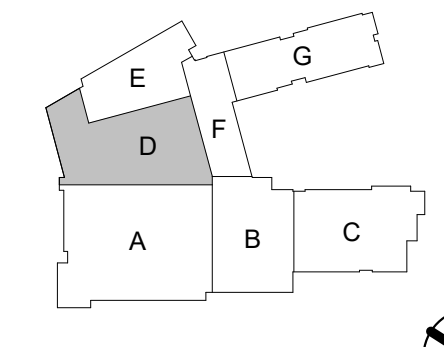
GP #22105

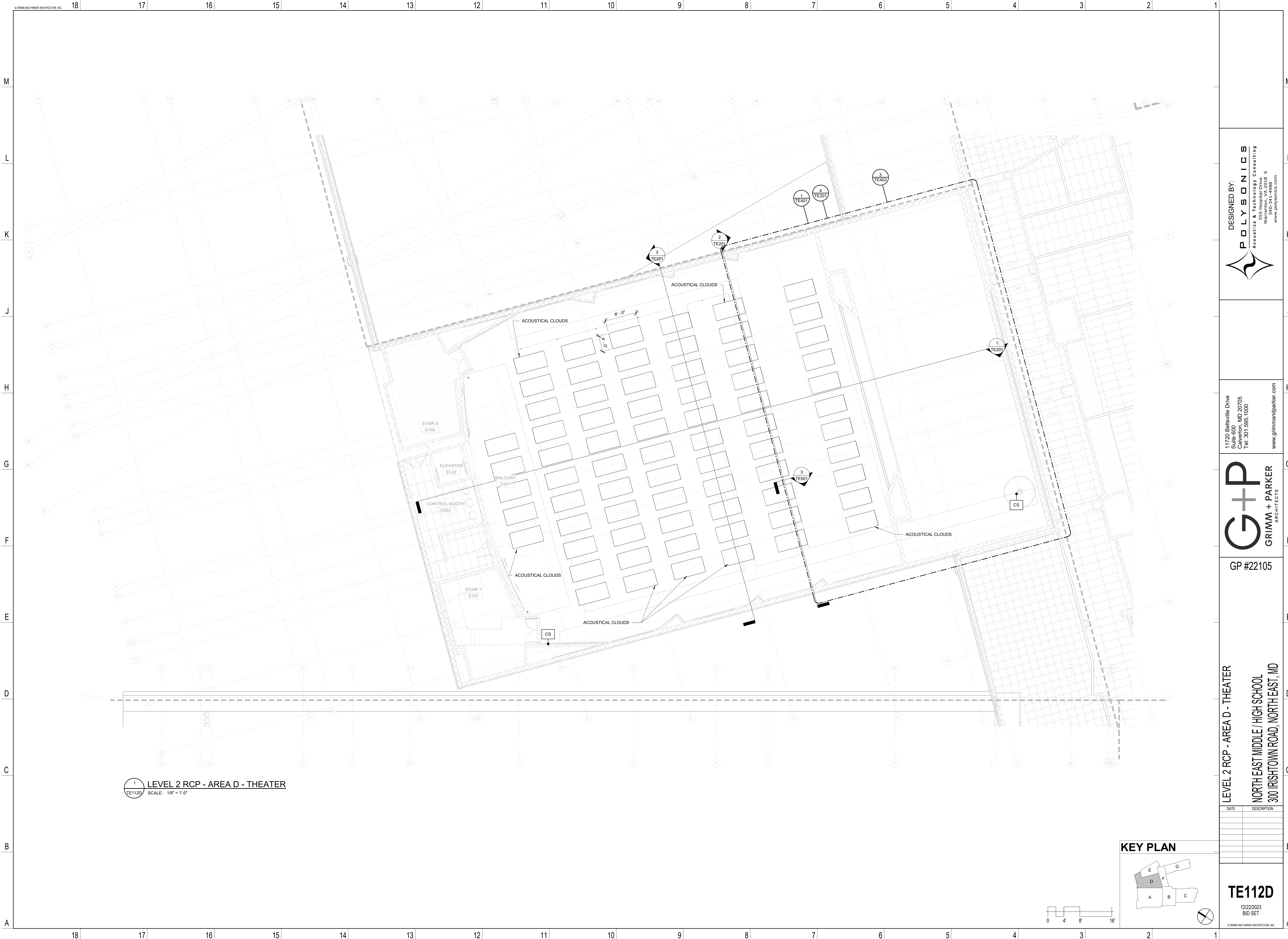
LEVEL 1 RCP - AREA D - THEATER
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

TE111D
12/22/2023
BID SET

KEY PLAN





DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Suite 600
Wilmington, DE 19806
Tel: 301.595.1000
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

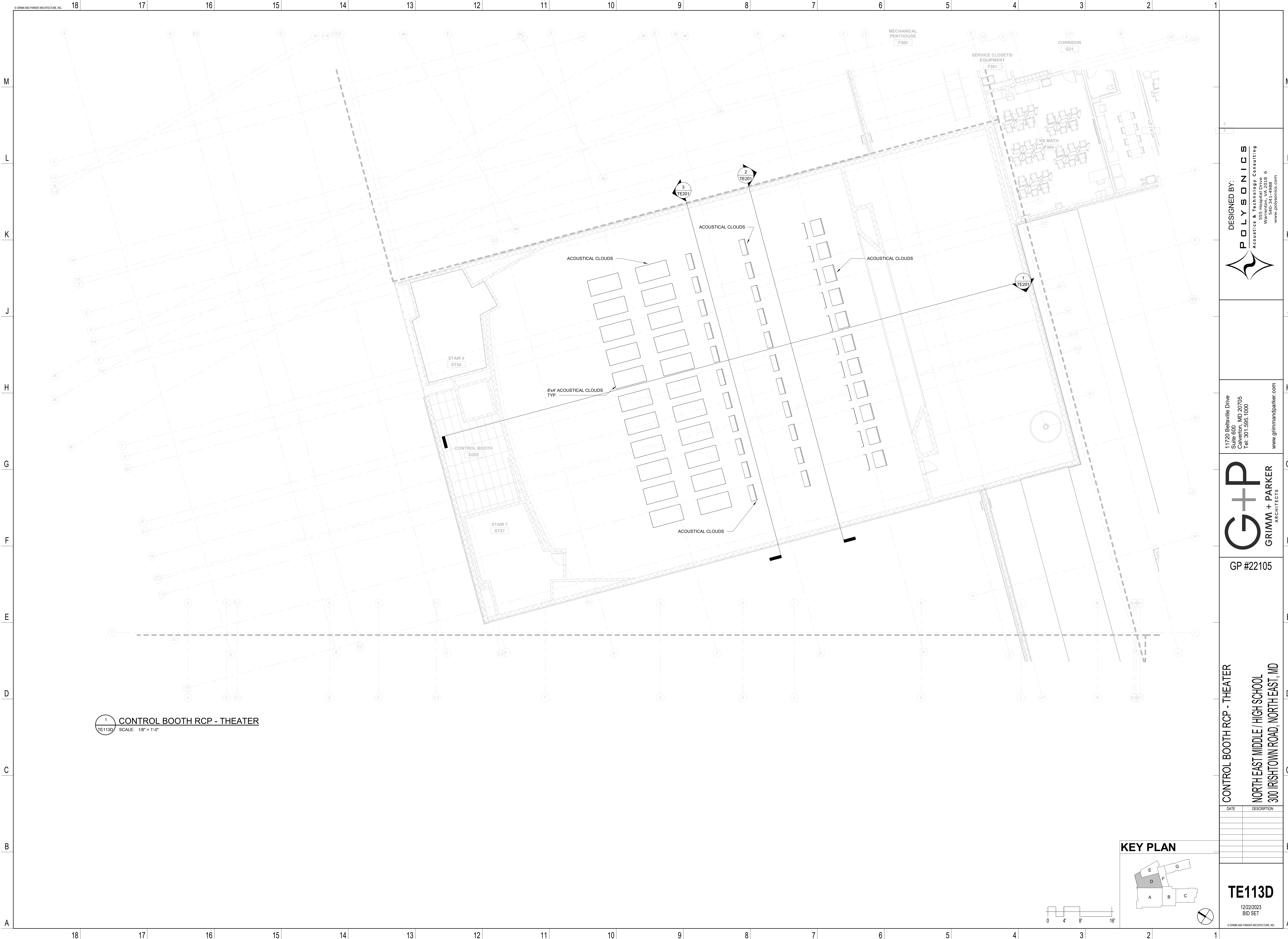
GP #22105

LEVEL 2 RCP - AREA D - THEATER
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

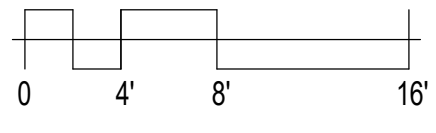
DATE	DESCRIPTION

TE112D
12/22/2023
BID SET

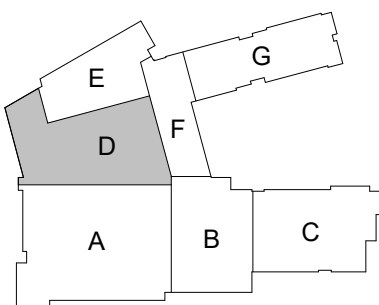
© GRIMM AND PARKER ARCHITECTURE, INC.



1 CONTROL BOOTH RCP - THEATER
TE113D SCALE: 1/8" = 1'-0"



KEY PLAN



DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Wilmington, DE 19806
Tel: 301-441-4498
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

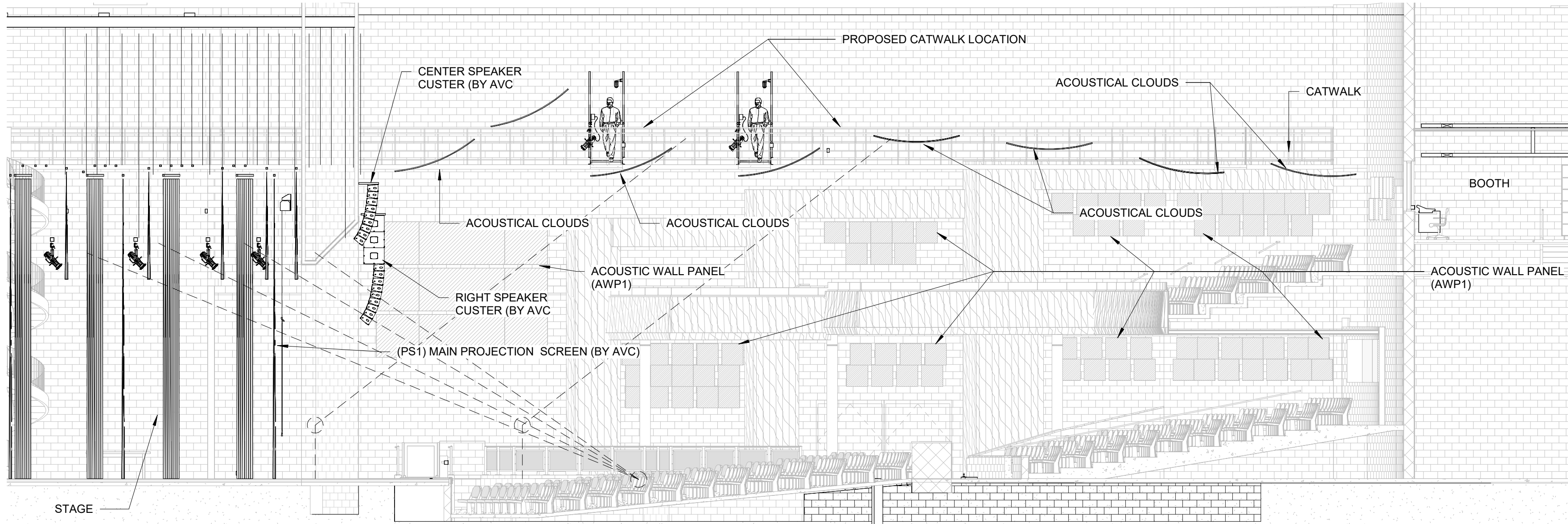


GP #22105

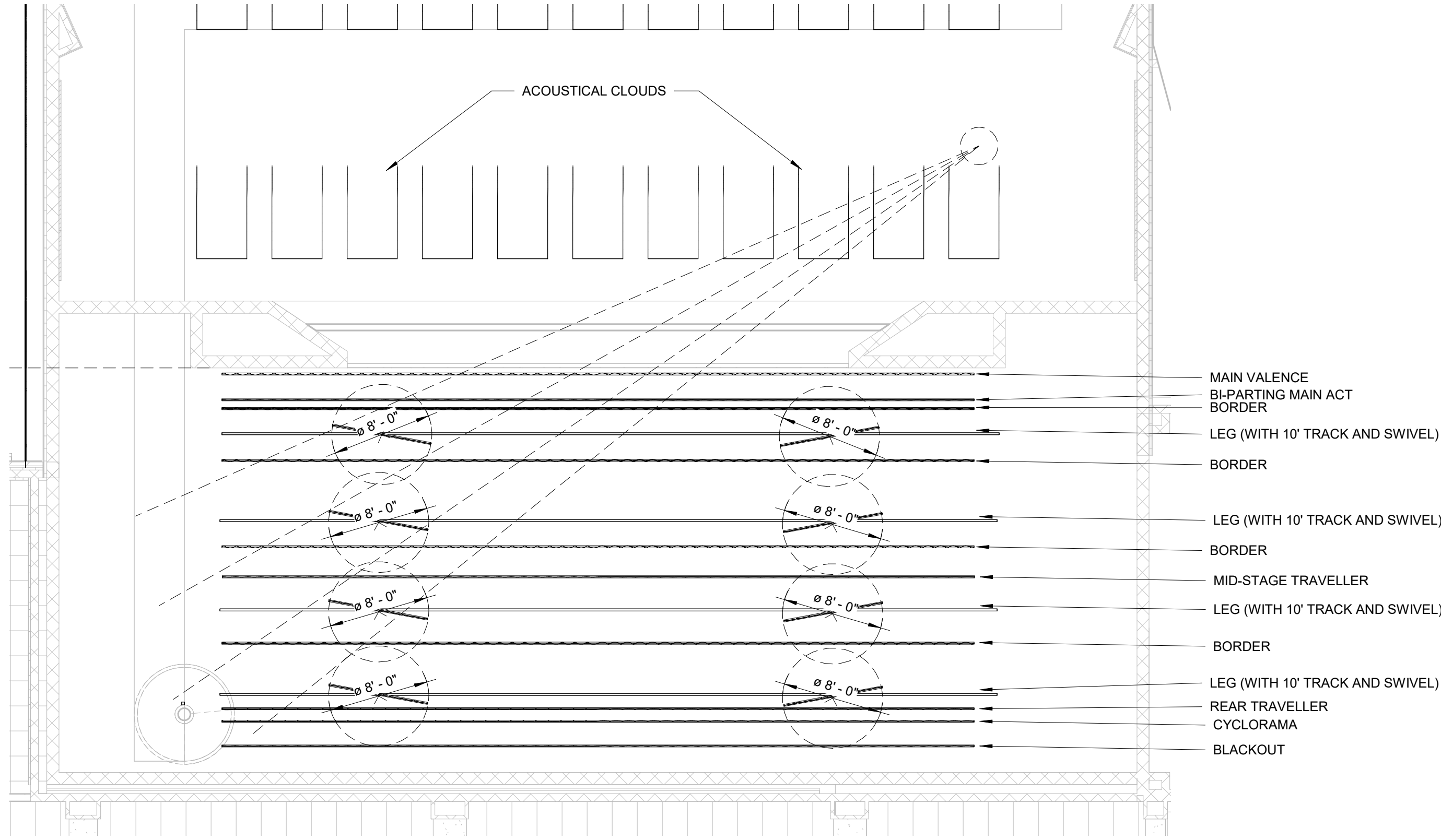
CONTROL BOOTH RCP - THEATER
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

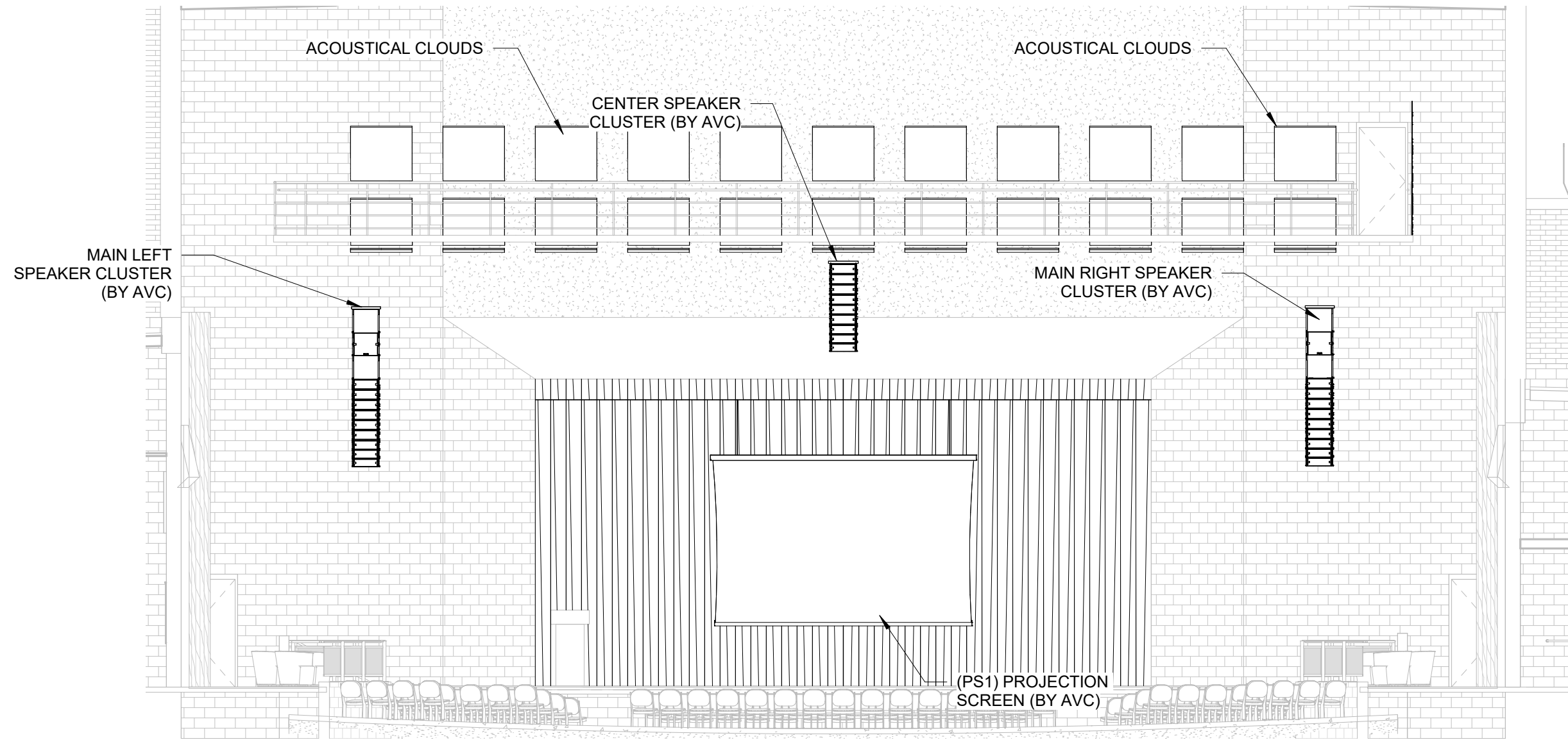
TE113D
12/22/2023
BID SET



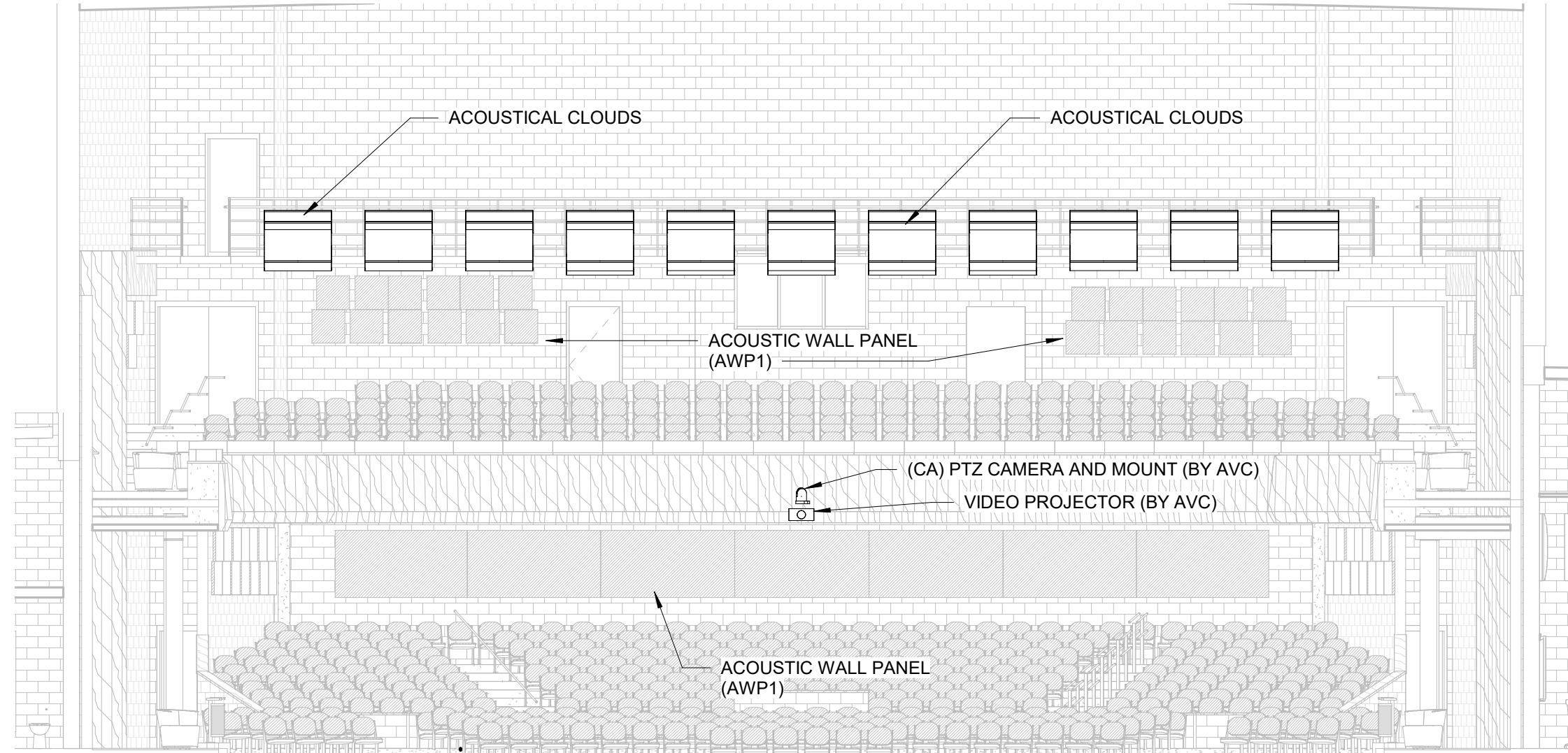
1 AUDITORIUM SECTION VIEW - THEATER MASKING SIGHT LINES
TE201 SCALE: 1/8" = 1'-0"



4 THEATER BATTEN AND CURTAIN LOCATIONS DETAILS - CURTAINS ONLY
TE201 SCALE: 1/8" = 1'-0"



2 AUDITORIUM SECTION VIEW TOWARD STAGE - THEATER
TE201 SCALE: 1/8" = 1'-0"



3 AUDITORIUM SECTION VIEW TOWARD REAR WALL - THEATER
TE201 SCALE: 1/8" = 1'-0"

DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Wardersburg, MD 21792
Tel: 301-595-1498
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

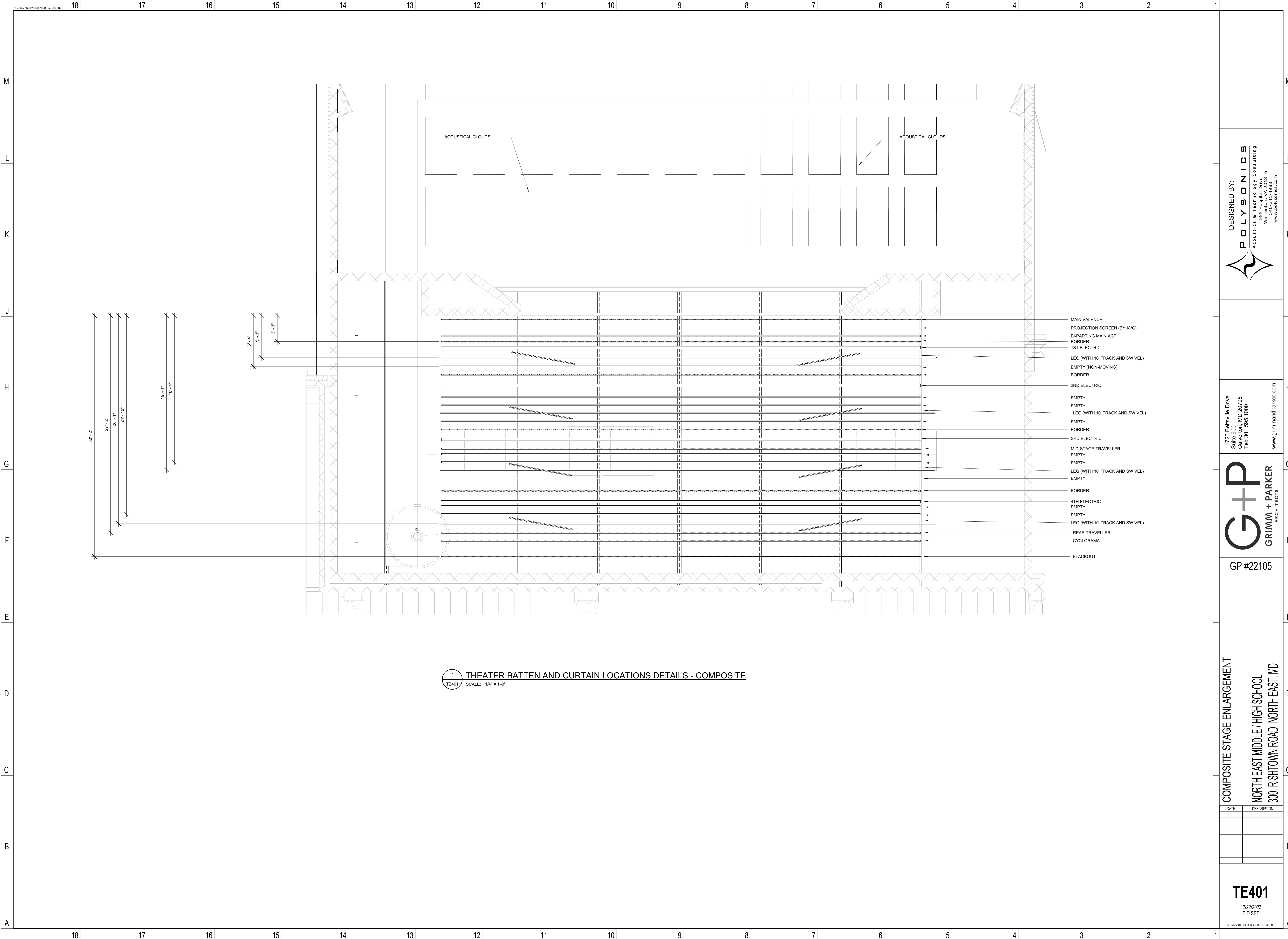
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

SECTIONS/ELEVATIONS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

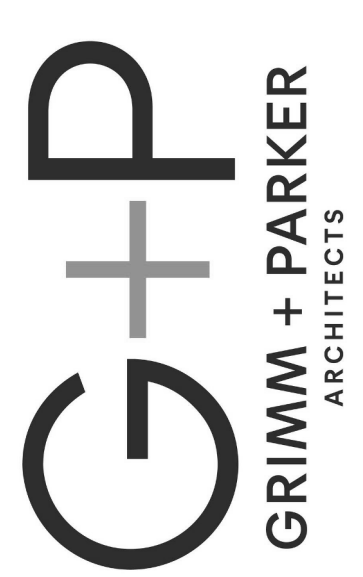
DATE	DESCRIPTION

TE201
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.



DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Wilmington, DE 19806
540-341-4938
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

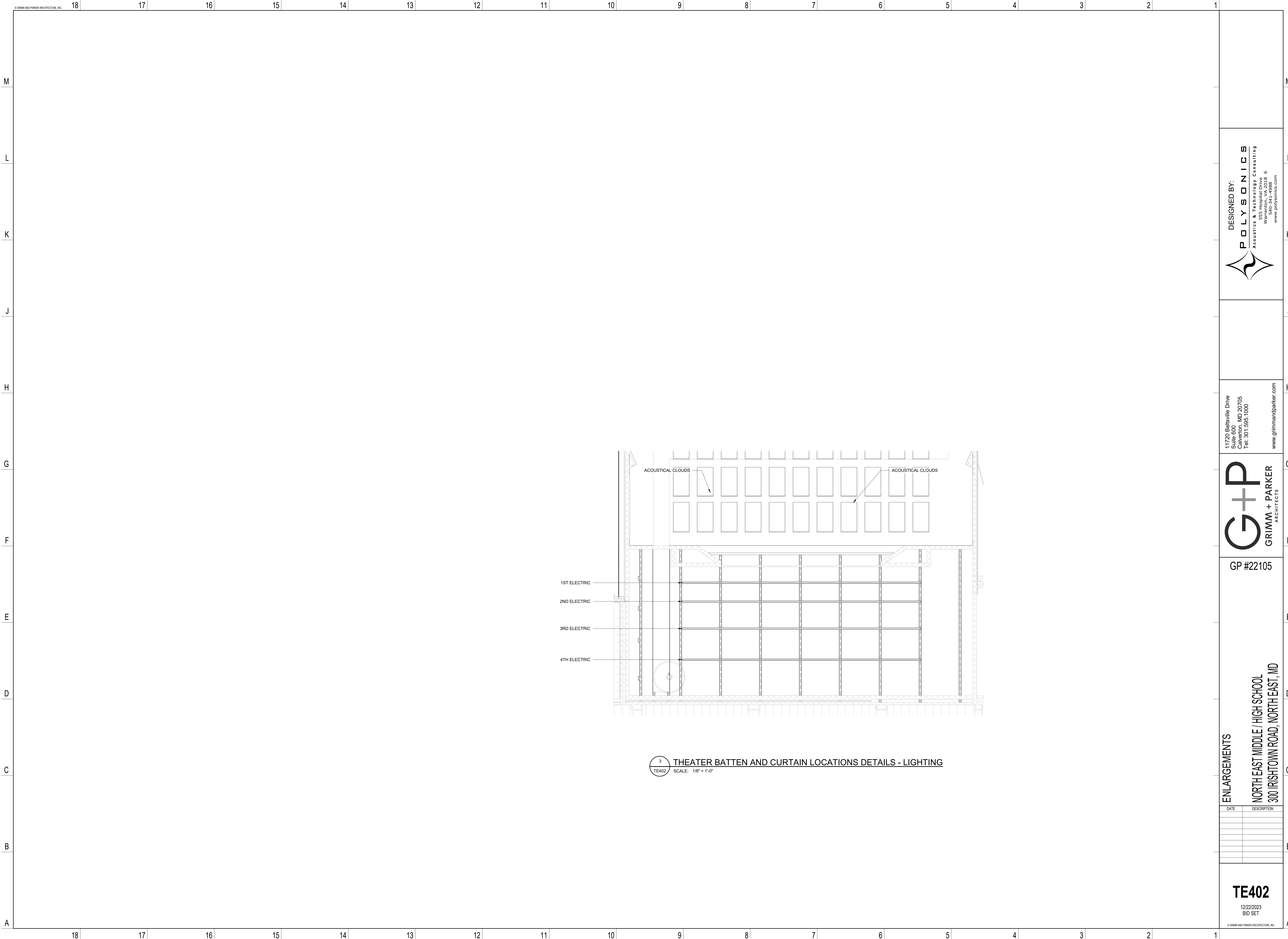


GP #22105

COMPOSITE STAGE ENLARGEMENT
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

TE401
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.



3 THEATER BATTEN AND CURTAIN LOCATIONS DETAILS - LIGHTING
TE402 SCALE: 1/8" = 1'-0"

DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
5555 Hospital Drive
Wilmington, DE 19806
Tel: 302-341-4498
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.girmandparker.com

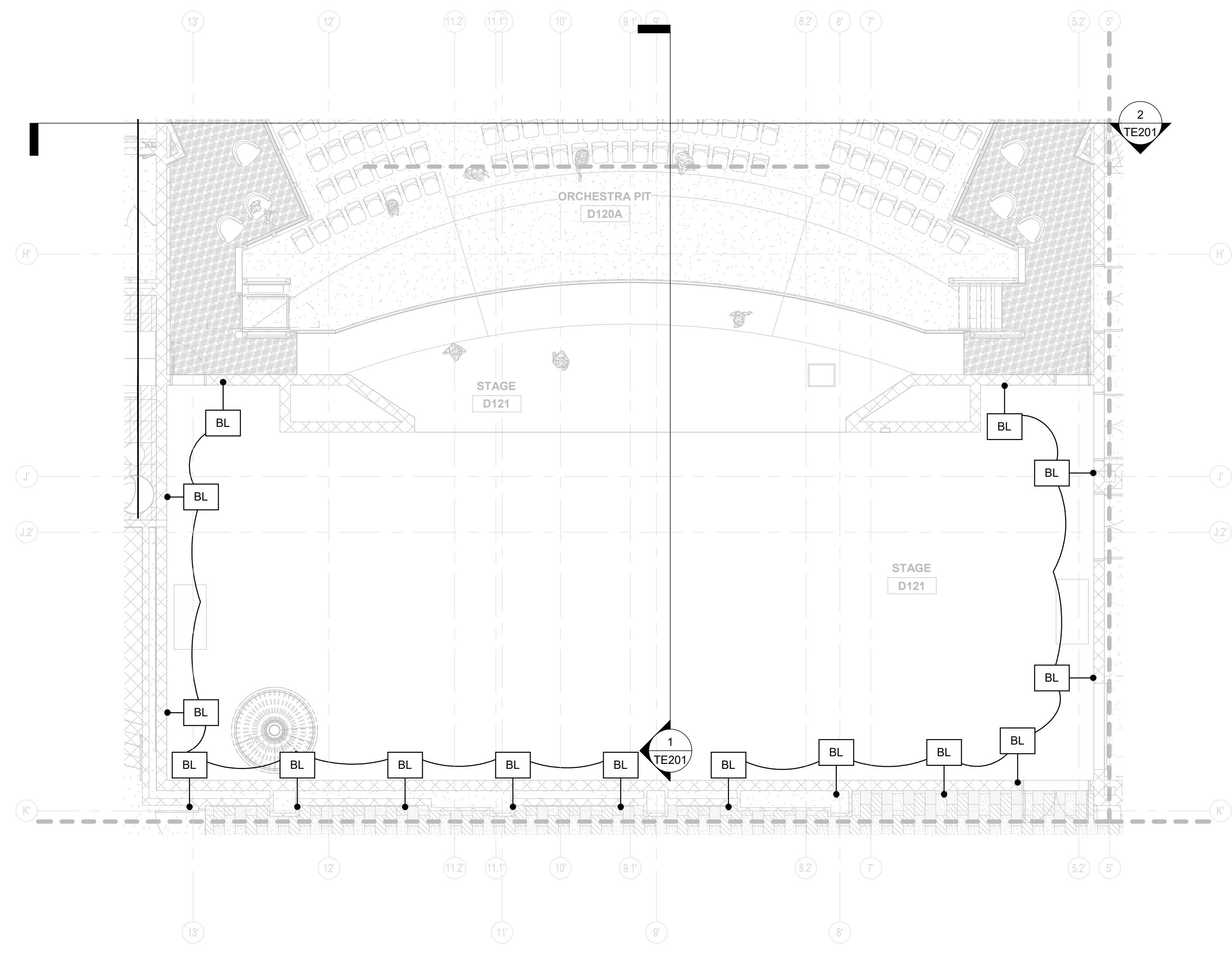
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

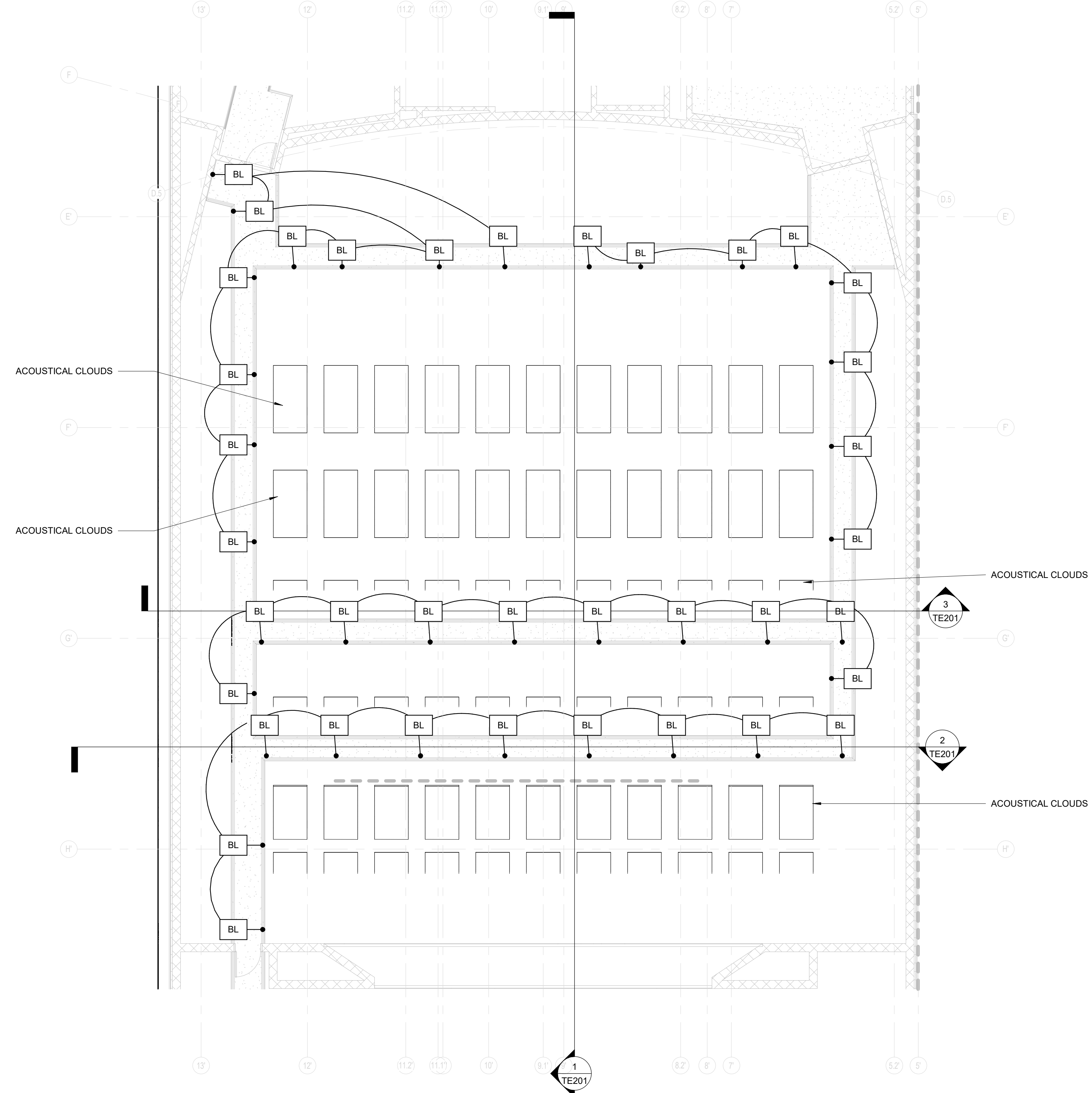
ENLARGEMENTS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

TE402
12/22/2023
BID SET



1 STAGE PLAN VIEW - BLUE LIGHT - THEATER
TE403 SCALE: 1/8" = 1'-0"



2 CATWALK PLAN VIEW - BLUE LIGHT - THEATER
TE403 SCALE: 1/8" = 1'-0"

DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Warrenton, OR 97146
503-861-4988
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

ENLARGEMENTS - BLUE LIGHT
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

TE403
12/22/2023
BID SET
© GRIMM AND PARKER ARCHITECTURE, INC.

M

L

K

J

H

G

F

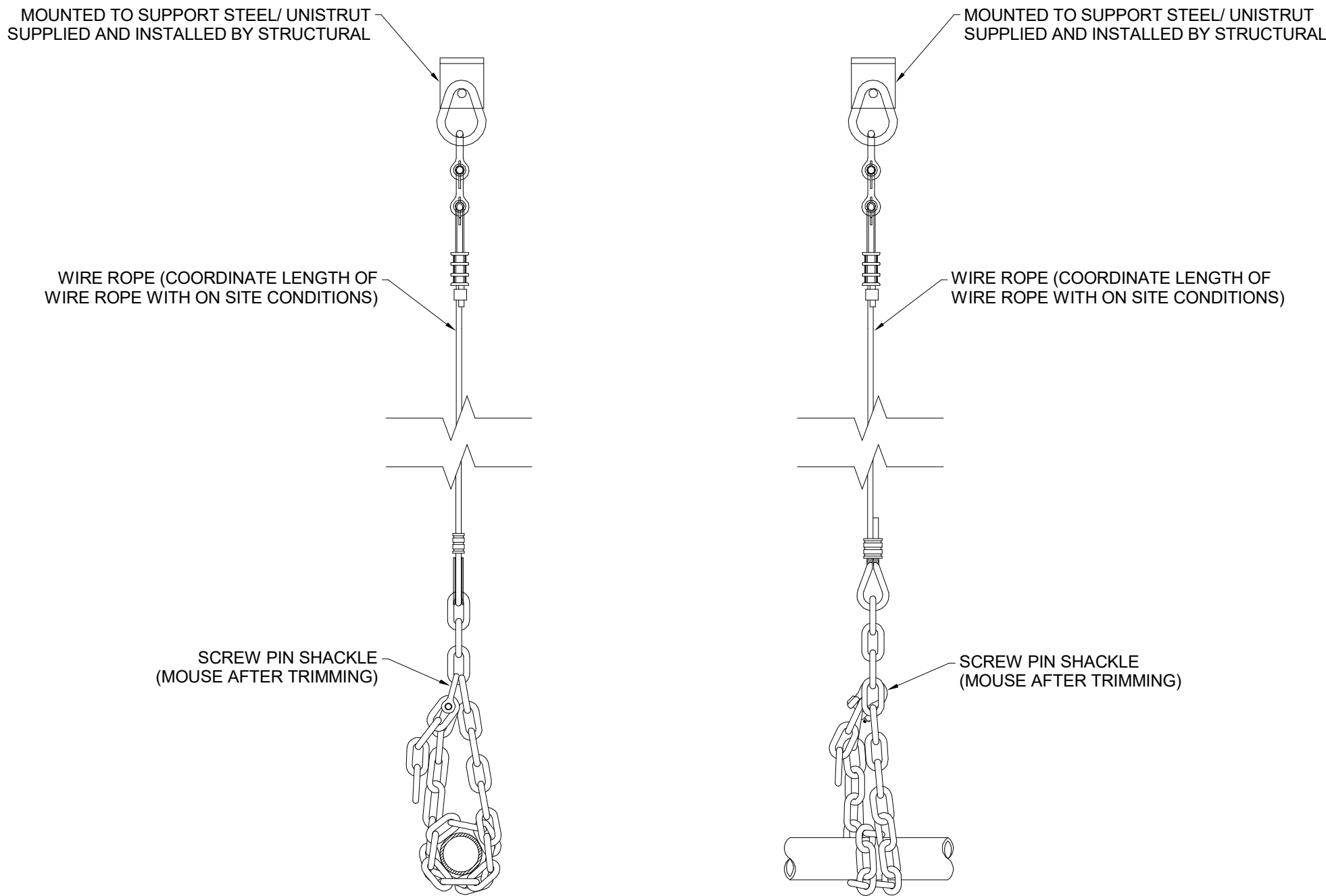
E

D

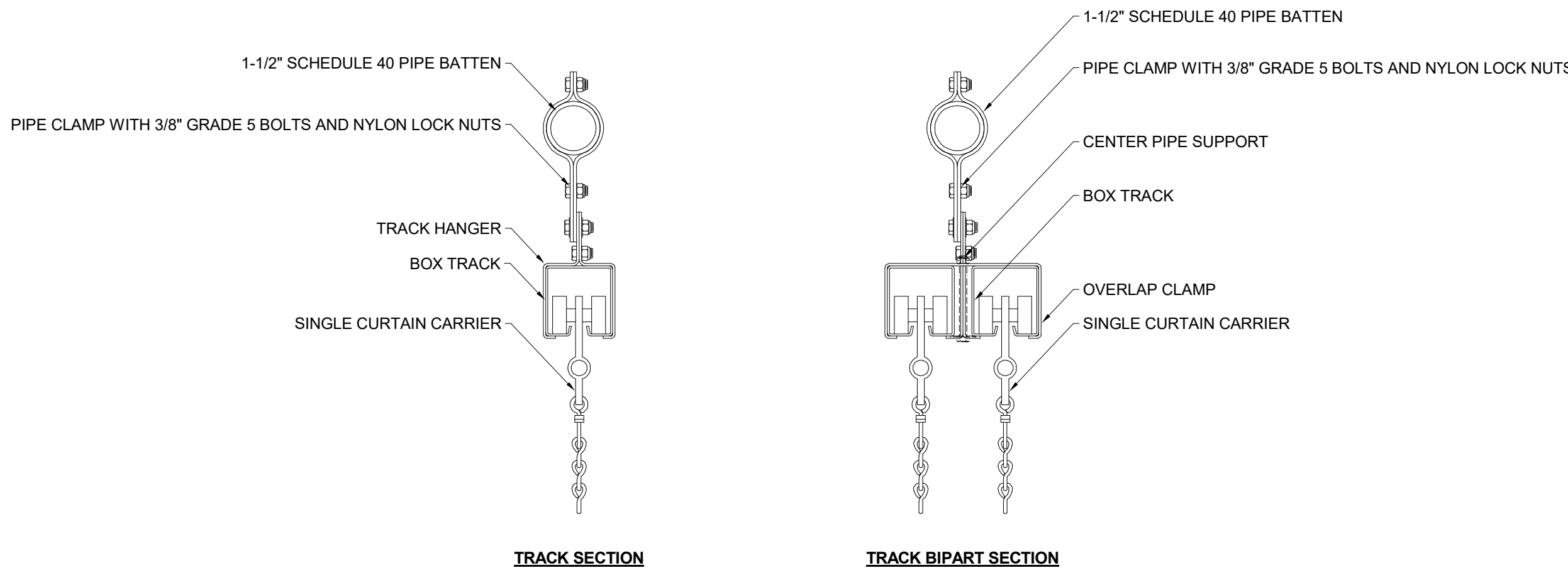
C

B

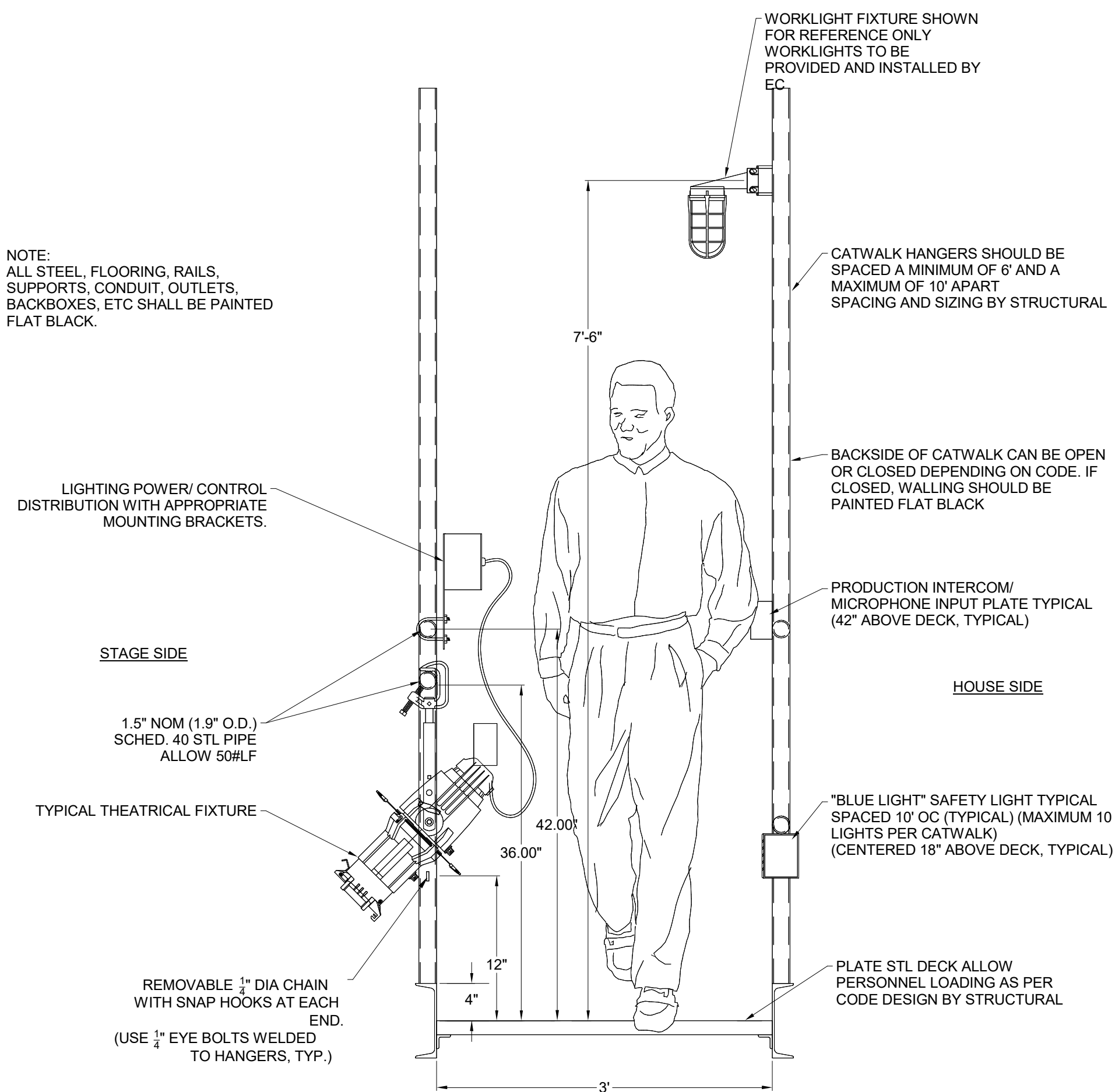
A



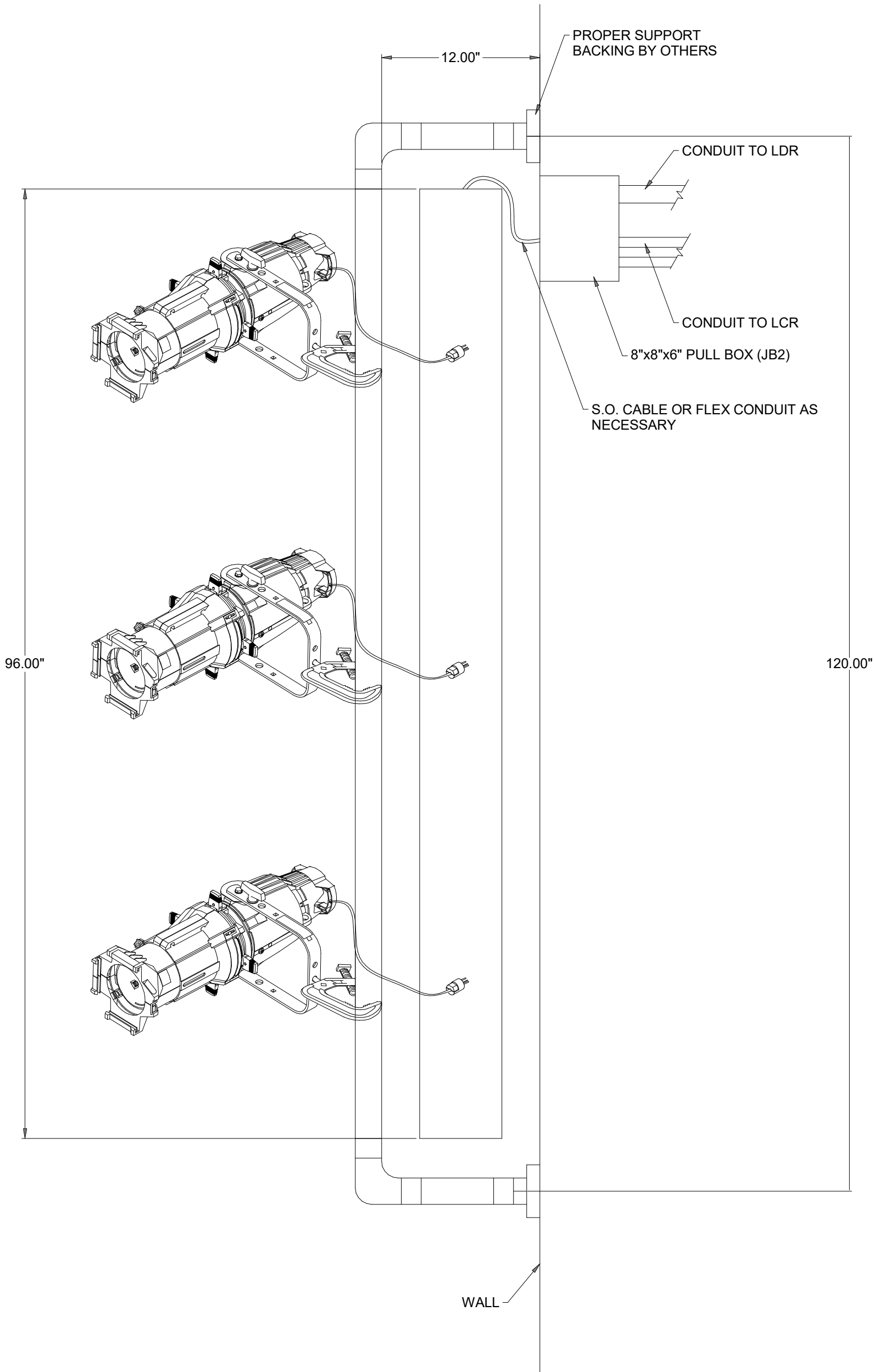
1 TYPICAL DEAD HUNG MOUNTING DETAILS FOR BATTEN AND CURTAINS
SCALE: NTS



2 TYPICAL CURTAIN TRACK ATTACHMENT DETAILS
SCALE: NTS



10 CATWALK DETAIL
SCALE: NTS



4 TORMENTOR BAR DETAIL
SCALE: 1 1/2\"/>

3 CATWALK DETAIL
SCALE: NTS

DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
555 Hospital Drive
Warrington, PA 18986
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

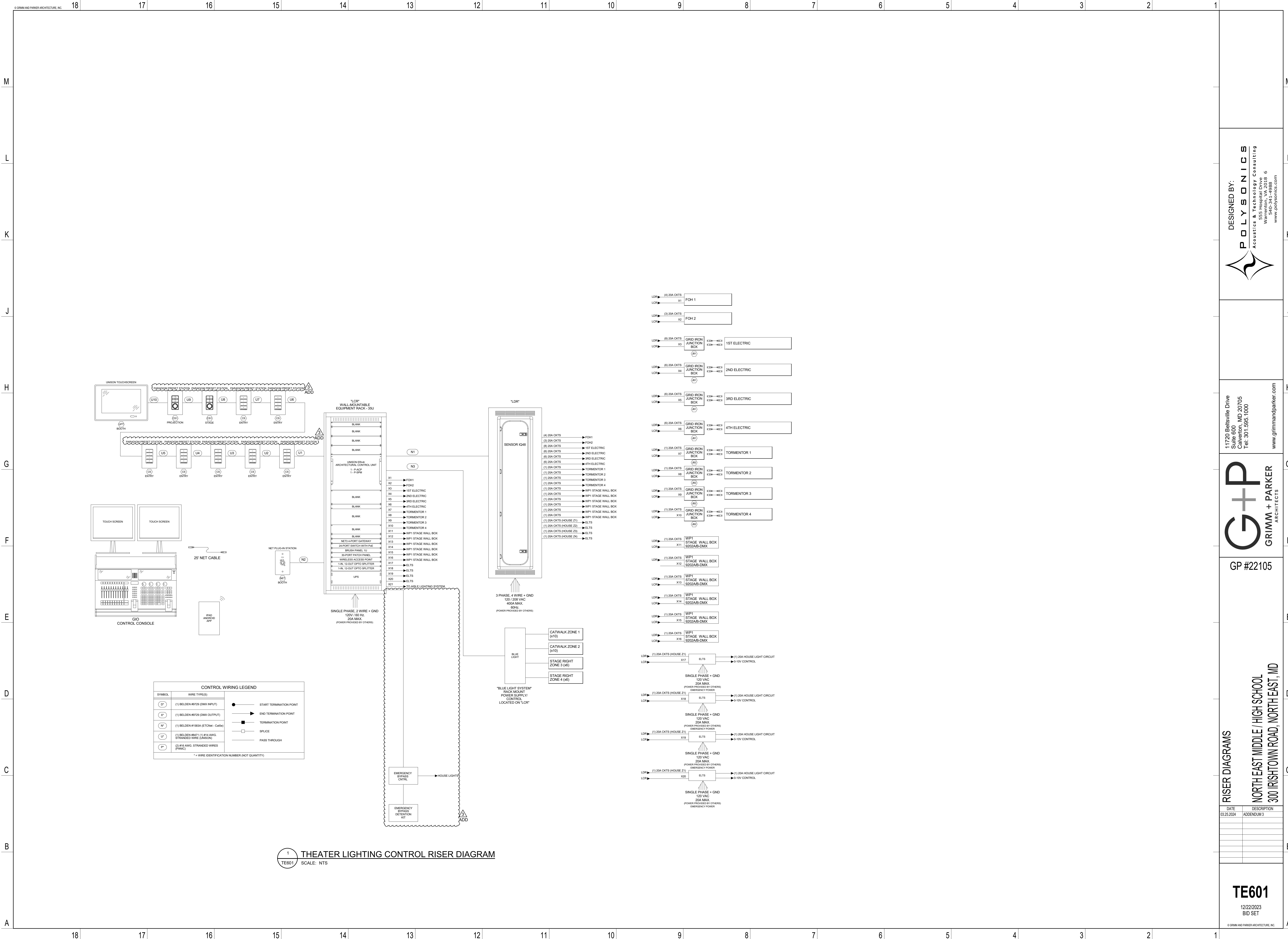
G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

DETAILS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

TE501
12/22/2023
BID SET



DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
5555 Hospital Drive
Wentzville, MO 63386
540-341-4498
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G + P
GRIMM + PARKER
ARCHITECTS

GP #22105

RISER DIAGRAMS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION
03.25.2024	ADDENDUM 3

TE601
12/22/2023
BID SET

M

L

K

J

H

G

F

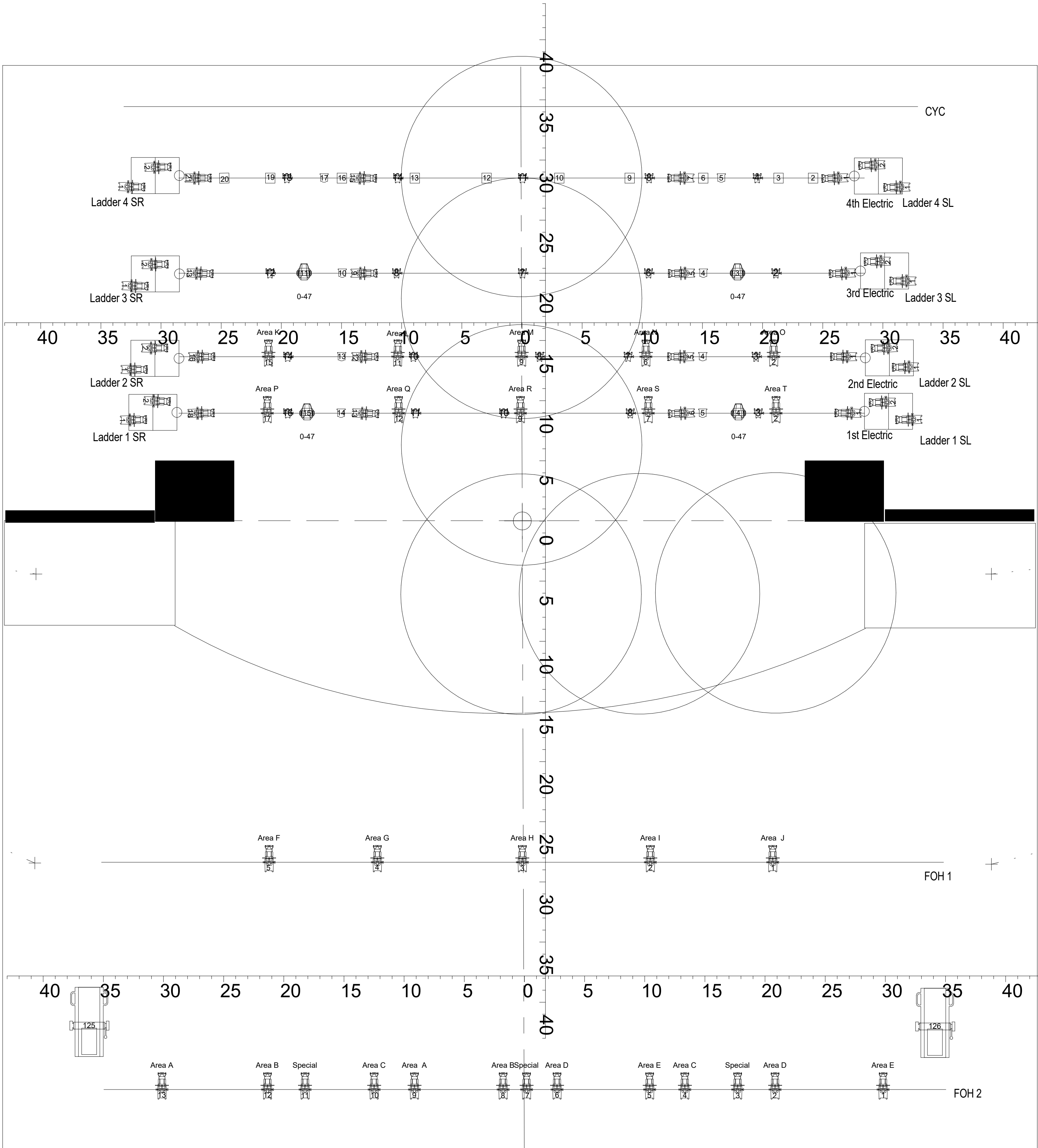
E

D

C

B

A



1 LIGHTING PLOT
TE602 SCALE: 3/16" = 1'-0"

Legend			
Qty	Symbol	Type	Note
10		ETC ColorSource Cyc XLR LED ETL	
8		ETC ColorSource Fresnel V	
20		ETC ColorSource PAR Deep Blue	
68		ETC ColorSource Spot Deep Blue	20,000-hour LED life (20,000 hours to 70% intensity)
4		High End Lonestar	
2		Lycian ZOT 12	

Instrument Schedule

Inst #	Type	W...	Weight	DMX	Acces...	Purpo...
125	Lycian ZOT LED	350	0	—		
126	Lycian ZOT LED	350	0	—		

Location: 1st Electric						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bj	2
2	ETC ColorSource Spot Deep...	197	12.98	8	j	2
3	ETC ColorSource PAR Deep...	90	8.36	6		2
4	High End Lonestar	615	49.94	47		2
5	ETC ColorSource Fresnel V	149	13.64	9		2
6	ETC ColorSource Spot Deep...	197	12.98	8	Bj	2
7	ETC ColorSource Spot Deep...	197	12.98	8	j	2
8	ETC ColorSource PAR Deep...	90	8.36	6		2
9	ETC ColorSource Spot Deep...	197	12.98	8	j	2
10	ETC ColorSource PAR Deep...	90	8.36	6		2
11	ETC ColorSource PAR Deep...	90	8.36	6		2
12	ETC ColorSource PAR Deep...	197	12.98	8	j	2
13	ETC ColorSource Spot Deep...	197	12.98	8	Bj	2
14	ETC ColorSource Fresnel V	149	13.64	9		2
15	High End Lonestar	615	49.94	47		2
16	ETC ColorSource PAR Deep...	90	8.36	6		2
17	ETC ColorSource Spot Deep...	197	12.98	8	j	2
18	ETC ColorSource Spot Deep...	197	12.98	8	j	2
		37...	285.78	214		

Location: 2nd Electric						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bj	2
2	ETC ColorSource Spot Deep...	197	12.98	8	j	2
3	ETC ColorSource PAR Deep...	90	8.36	6		2
4	ETC ColorSource Fresnel V	149	13.64	9		2
5	ETC ColorSource Spot Deep...	197	12.98	8	Bj	2
6	ETC ColorSource PAR Deep...	90	8.36	6	j	2
7	ETC ColorSource PAR Deep...	90	8.36	6		2
8	ETC ColorSource PAR Deep...	90	8.36	6		2
9	ETC ColorSource Spot Deep...	197	12.98	8	j	2
10	ETC ColorSource PAR Deep...	90	8.36	6		2
11	ETC ColorSource Spot Deep...	197	12.98	8	j	2
12	ETC ColorSource Spot Deep...	197	12.98	8	Bj	2
13	ETC ColorSource Fresnel V	149	13.64	9		2
14	ETC ColorSource PAR Deep...	90	8.36	6		2
15	ETC ColorSource Spot Deep...	197	12.98	8	j	2
16	ETC ColorSource Spot Deep...	197	12.98	8	Bj	2
		25...	185.9	120		

Location: 3rd Electric						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bj	3
2	ETC ColorSource PAR Deep...	197	8.36	8		3
3	High End Lonestar	615	49.94	47		3
4	ETC ColorSource Fresnel V	149	13.64	9		3
5	ETC ColorSource Spot Deep...	197	12.98	8	Bj	3
6	ETC ColorSource PAR Deep...	90	8.36	6		3
7	ETC ColorSource PAR Deep...	90	8.36	6		3
8	ETC ColorSource PAR Deep...	90	8.36	6		3
9	ETC ColorSource Spot Deep...	197	12.98	8	Bj	3
10	ETC ColorSource Fresnel V	149	13.64	9		3
11	High End Lonestar	615	49.94	0-47		3
12	ETC ColorSource PAR Deep...	90	8.36	6		3
13	ETC ColorSource Spot Deep...	197	12.98	8	Bj	3
		28...	220.88	129		

Location: 4th Electric						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bj	3
2	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
3	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
4	ETC ColorSource PAR Deep...	90	8.36	6		3
5	ETC ColorSource Fresnel V	149	13.64	9		3
6	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
7	ETC ColorSource Spot Deep...	197	12.98	8	Bj	3
8	ETC ColorSource PAR Deep...	90	8.36	6		3
9	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
10	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
11	ETC ColorSource PAR Deep...	90	8.36	6		3
12	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
13	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
14	ETC ColorSource PAR Deep...	90	8.36	6		3
15	ETC ColorSource Spot Deep...	197	12.98	8	Bj	3
16	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
17	ETC ColorSource Fresnel V	149	13.64	9		3
18	ETC ColorSource PAR Deep...	90	8.36	6		3
19	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
20	ETC ColorSource Cyc XLR LED...	133	10.34	5		3
21	ETC ColorSource Spot Deep...	197	12.98	8	Bj	3
		28...	224.4	130		

Totals			
Unive...	Power		
913	20285		
Unive...			
	DMX	#...	Power
1	FOH 1	40	1 985
	FOH 2	104	2 2561
	HR Torm	16	1 394
	HL Torm	16	1 394
	SR Torm	16	1 394
	SL Torm	16	1 394
		208	7
2	1st Electric	214	2 3751
	Ladder 1...	32	1 788
	2nd...	120	2 2521
	Ladder 2...	32	1 788
		398	6
3	3rd Electric	129	2 2873
	Ladder 3...	32	1 788
	4th Electric	130	2 2866
	Ladder 4...	32	1 788
	6 Stage...	96	3 6000
	House	4	4 9600
		423	13

Location: FOH 1						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	j	Area J 1
2	ETC ColorSource Spot Deep...	197	12.98	8	j	Area I 1
3	ETC ColorSource Spot Deep...	197	12.98	8	j	Area H 1
4	ETC ColorSource Spot Deep...	197	12.98	8	j	Area G 1
5	ETC ColorSource Spot Deep...	197	12.98	8	j	Area F 1
		985	64.9	40		

Location: FOH 2						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	h	Area E 1
2	ETC ColorSource Spot Deep...	197	12.98	8	h	Area D 1
3	ETC ColorSource Spot Deep...	197	12.98	8	h	Special 1
4	ETC ColorSource Spot Deep...	197	12.98	8	h	Area C 1
5	ETC ColorSource Spot Deep...	197	12.98	8	h	Area B 1
6	ETC ColorSource Spot Deep...	197	12.98	8	h	Area D 1
7	ETC ColorSource Spot Deep...	197	12.98	8	h	Special 1
8	ETC ColorSource Spot Deep...	197	12.98	8	h	Area B 1
9	ETC ColorSource Spot Deep...	197	12.98	8	h	Area A 1
10	ETC ColorSource Spot Deep...	197	12.98	8	h	Area C 1
11	ETC ColorSource Spot Deep...	197	12.98	8	h	Special 1
12	ETC ColorSource Spot Deep...	197	12.98	8	h	Area B 1
13	ETC ColorSource Spot Deep...	197	12.98	8	h	Area A 1
		25...	168.74	104		

Location: Ladder 1 SR						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bi	2
2	ETC ColorSource Spot Deep...	197	12.98	8	Bi	2
		394	25.96	16		

Location: Ladder 2 SR						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bi	2
2	ETC ColorSource Spot Deep...	197	12.98	8	Bi	2
		394	25.96	16		

Location: Ladder 3 SR						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bi	3
2	ETC ColorSource Spot Deep...	197	12.98	8	Bi	3
		394	25.96	16		

Location: Ladder 4 SR						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8		3
2	ETC ColorSource Spot Deep...	197	12.98	8	Bi	3
		394	25.96	16		

Location: Ladder 3 SL						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bi	3
2	ETC ColorSource Spot Deep...	197	12.98	8		3
		394	25.96	16		

Location: Ladder 4 SL						
Inst #	Type	W...	Weight	DMX	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8		3
2	ETC ColorSource Spot Deep...	197	12.98	8		3
		394	25.96	16		

Location: Ladder 2 SL						
Inst #	Type	W...	Weight	Dim	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8		
2	ETC ColorSource Spot Deep...	197	12.98	8		
		394	25.96	16		

Location: Ladder 1 SL						
Inst #	Type	W...	Weight	Dim	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8		
2	ETC ColorSource Spot Deep...	197	12.98	8		
		394	25.96	16		

Location: SL Tormentor						
Inst #	Type	W...	Weight	Dim	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bi	
2	ETC ColorSource Spot Deep...	197	12.98	8	Bi	
		394	25.96	16		

Location: SR Tormentor						
Inst #	Type	W...	Weight	Dim	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bi	
2	ETC ColorSource Spot Deep...	197	12.98	8	Bi	
		394	25.96	16		

Location: HL Tormentor						
Inst #	Type	W...	Weight	Dim	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bh	
2	ETC ColorSource Spot Deep...	197	12.98	8	Bh	
		394	25.96	16		

Location: HR Tormentor						
Inst #	Type	W...	Weight	Dim	Acces...	Purpo... Unive...
1	ETC ColorSource Spot Deep...	197	12.98	8	Bh	
2	ETC ColorSource Spot Deep...	197	12.98	8	Bh	
		394	25.96	16		

Note: Dimmer/DMX column format is (DMXBUS).(Start DMX Address)-(End...
Note: Gobo column format is...

© GRIMM AND PARKER ARCHITECTURE, INC. 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

M

L

K

J

H

G

F

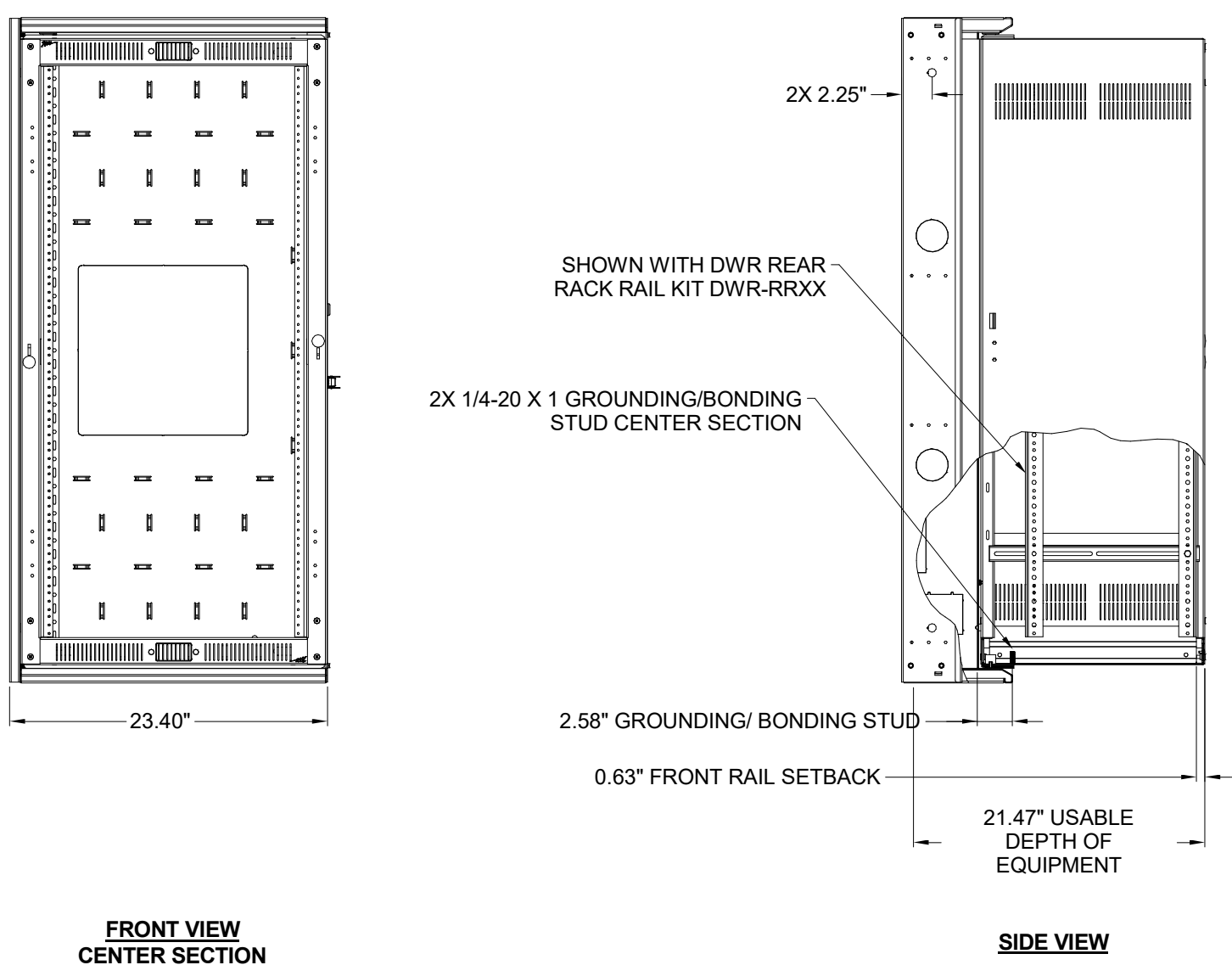
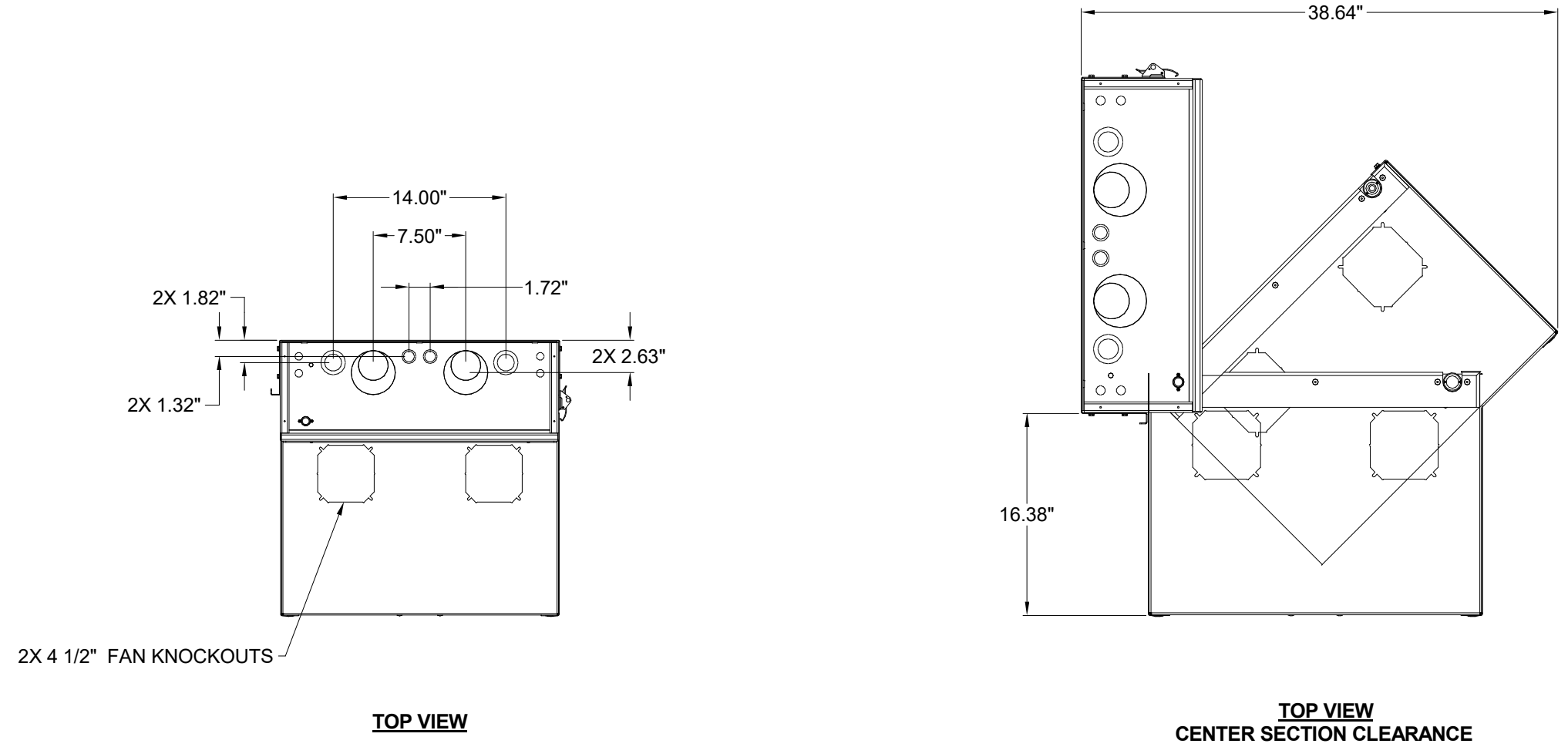
E

D

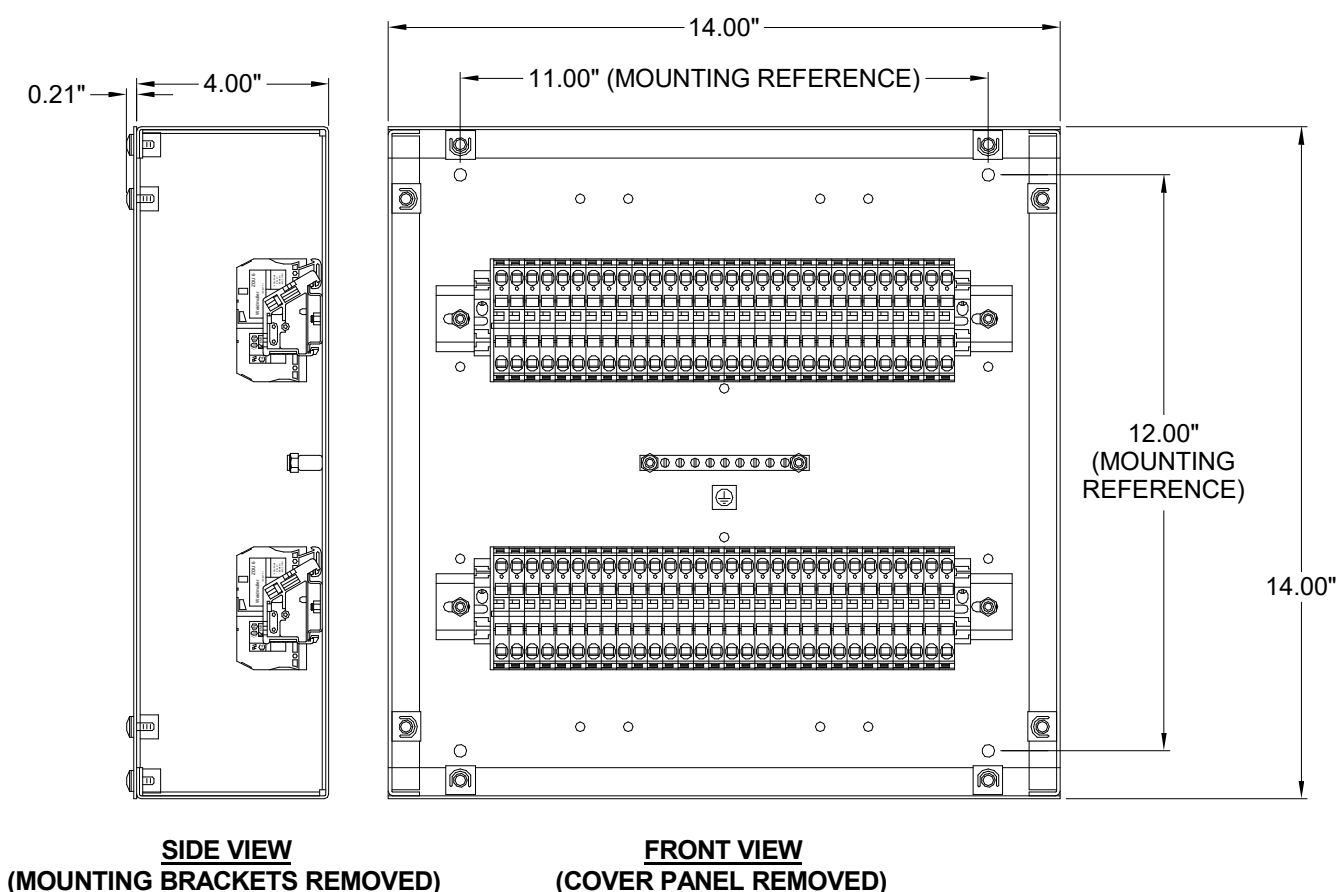
C

B

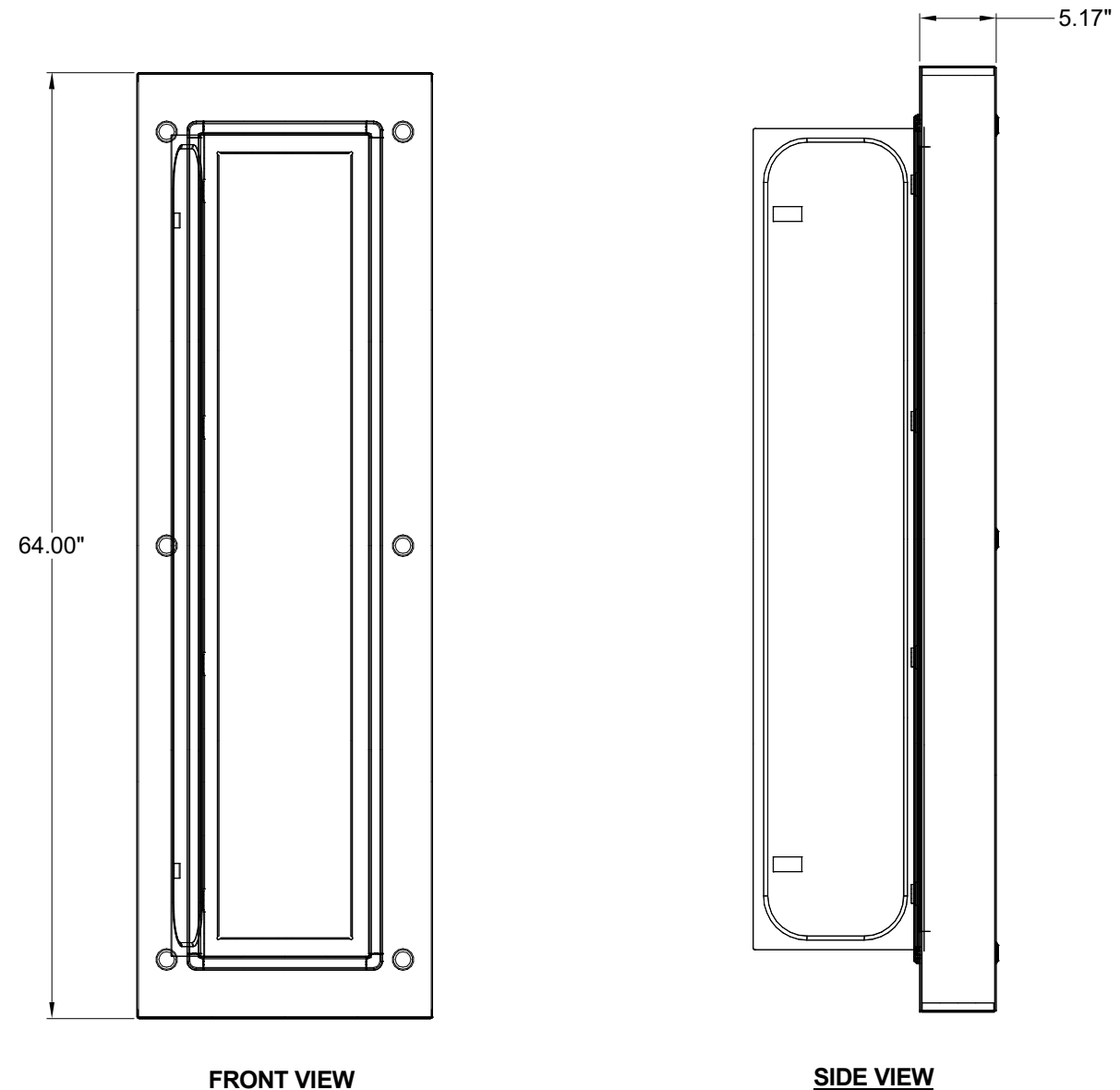
A



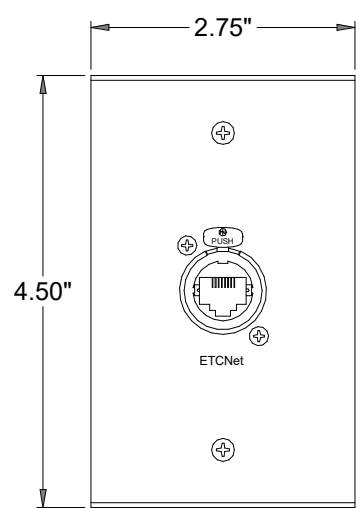
1 LIGHTING CONTROL RACK DETAIL (LCR)
TE901 SCALE: NTS



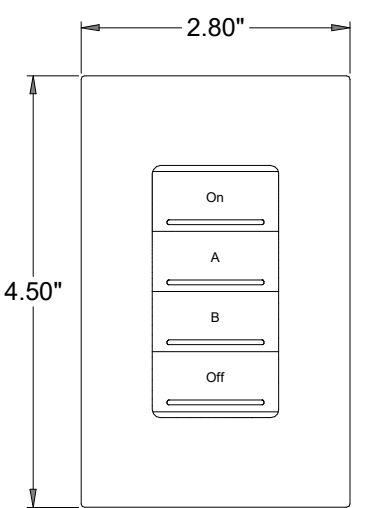
2 GRIDIRON JUNCTION BOX (JB1, JB2)
TE901 SCALE: NTS



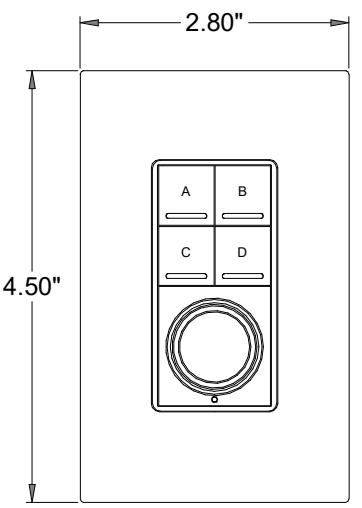
3 LIGHTING DIMMER RACK DETAIL (LDR)
TE901 SCALE: NTS



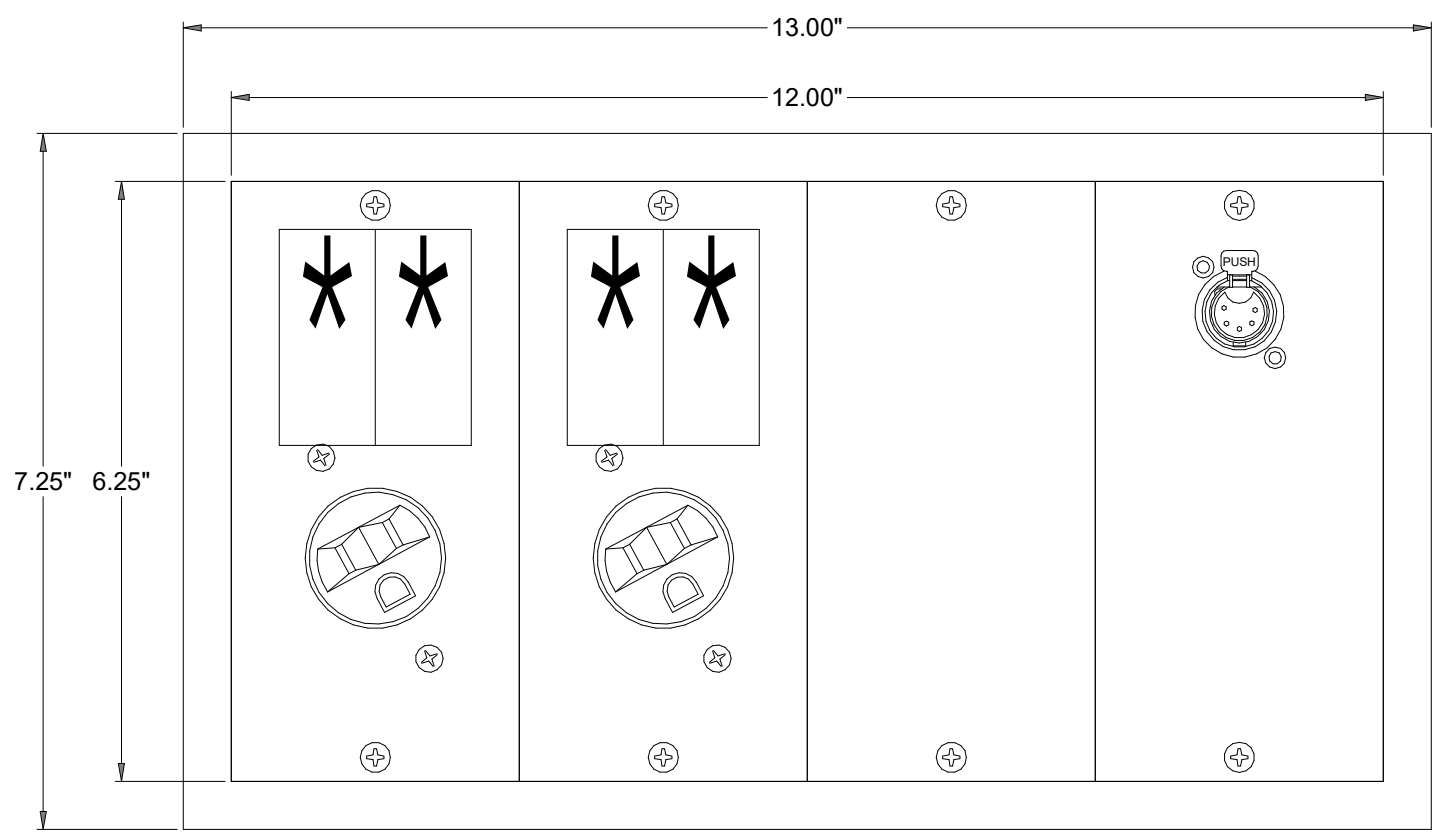
NET PLUG-IN STATION
QUANTITY: SEE DRAWINGS
SIZE: ECPB-NET
FINISH: COORDINATE
NOTE: COORDINATE FINAL LOCATON (SEE BOOTH)



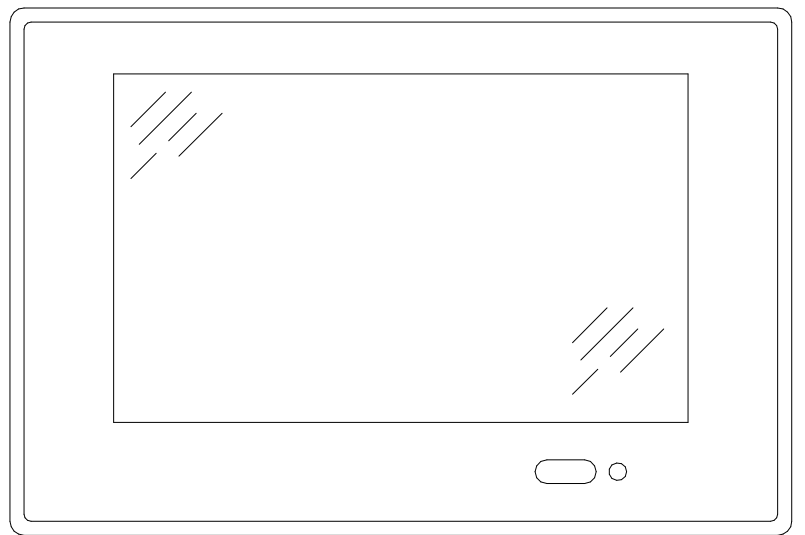
CONTROL SWITCH
QUANTITY: SEE DRAWINGS
SIZE: P11004-1F
FINISH: COORDINATE
NOTE: -



CONTROL SWITCH
QUANTITY: SEE DRAWINGS
SIZE: P11104-1F
FINISH: COORDINATE
NOTE: -



LIGHTING WALL BOX
QUANTITY: SEE DRAWINGS
SIZE: 9002B-NET
FINISH: BLACK
NOTE: (1) 20A CIRCUIT, (2) EDISON OUTLETS



UNISON PARADIGM TOUCH SCREEN
QUANTITY: SEE DRAWINGS
SIZE: ETO-PUCD-WW
FINISH: BLACK
NOTE: COORDINATE FINAL LOCATON (SEE BOOTH)

4 PLATE AND EQUIPMENT DETAILS
TE901 SCALE: 6" = 1'-0"

DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
5555 Hospital Drive
Wentzville, MO 63386
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

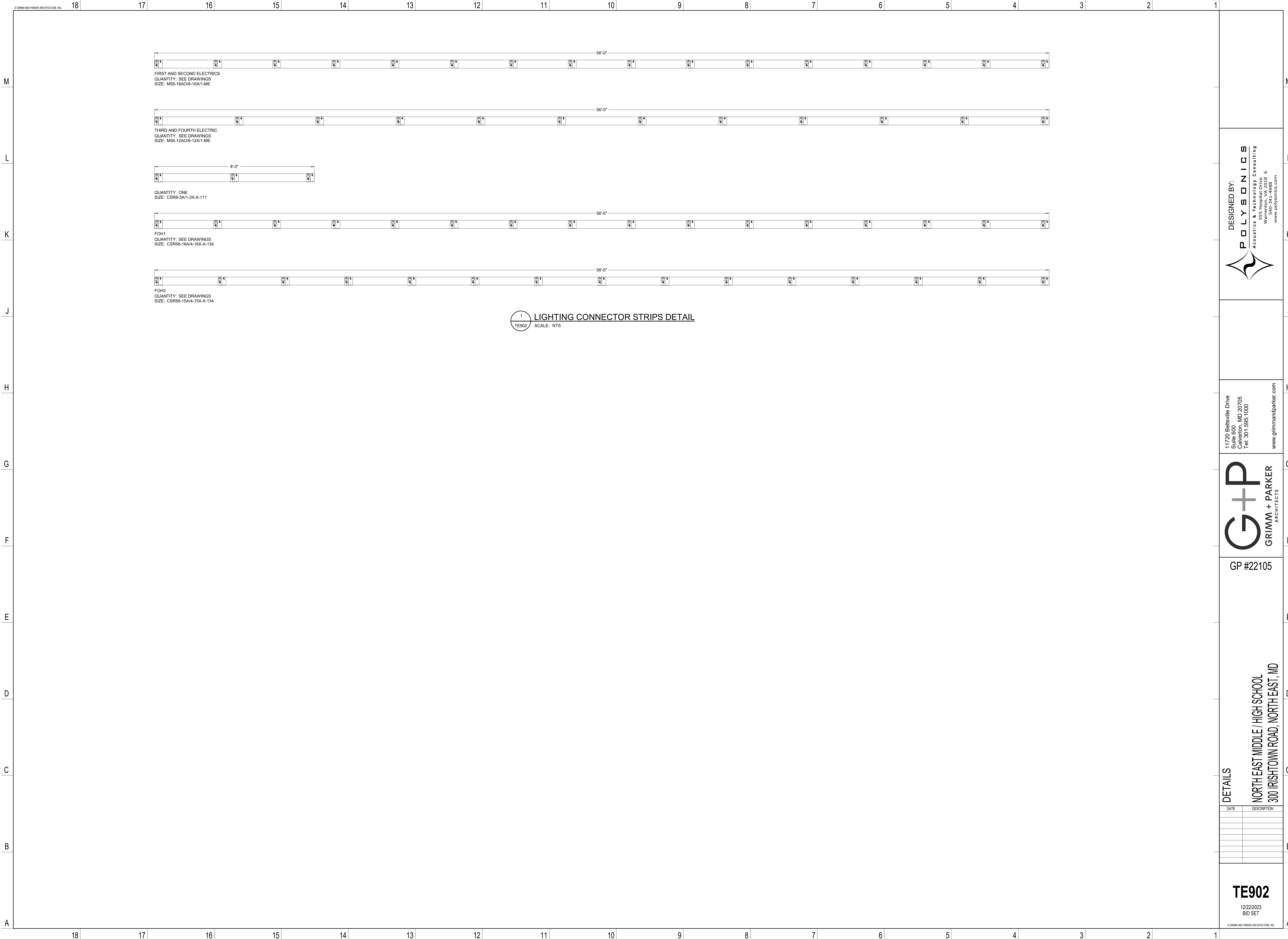
GP #22105

DETAILS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

TE901
12/22/2023
BID SET

© GRIMM AND PARKER ARCHITECTURE, INC.



FIRST AND SECOND ELECTRICS
QUANTITY: SEE DRAWINGS
SIZE: M56-16AO/8-16X-1-ME

THIRD AND FOURTH ELECTRIC
QUANTITY: SEE DRAWINGS
SIZE: M56-12AO/8-12X-1-ME

QUANTITY: ONE
SIZE: CSR8-3A/1-3X-X-111

FOH1
QUANTITY: SEE DRAWINGS
SIZE: CSR66-16A/4-16X-X-134

FOH2
QUANTITY: SEE DRAWINGS
SIZE: CSR66-15A/4-15X-X-134

1 LIGHTING CONNECTOR STRIPS DETAIL
TE902 SCALE: NTS

DESIGNED BY:
POLYSONICS
Acoustics & Technology Consulting
5555 Hospital Drive
Wardersburg, MD 21792
540-341-4498
www.polysonics.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.girmandparker.com

G+P
GRIMM + PARKER
ARCHITECTS

GP #22105

DETAILS
NORTH EAST MIDDLE / HIGH SCHOOL
300 IRISHTOWN ROAD, NORTH EAST, MD

DATE	DESCRIPTION

TE902
12/22/2023
BID SET