SECTION 00 90 01

BIDDING AND CONTRACT REQUIREMENTS
ADDENDUM NUMBER 1

Date: February 11, 2025

Distributed via:
City Blue Planroom

To: **Prospective Bidders**

From: Legat Architects, Inc.
1515 5th Avenue, Suite 108
Moline, IL 61265
309 517-5536
www.legat.com

Architect's Project Number:
224151.00

Re: **Addendum Number 1 to the bidding documents for:**
Moline – Coal Valley School District #40
Browning Field Concessions and Toilet Room Improvements

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents dated January 30, 2025. Acknowledge receipt of this addendum in the space provided on Bid Form.
FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

I. PART 1 - ADDENDUM TO THE PROJECT MANUAL

A. Document Table of Contents.
   1. Page TOC-1:
      a. ADD the following item(s) after item 00 82 00 – Prevailing Wage Requirements:
         "00 90 01 Addendum Number 1 ..... 56".

B. **DELETE** Document 08 31 00 **–** ACCESS DOORS AND PANELS in its entirety.

C. **REPLACE** Document 07 41 13 **–** METAL ROOF PANELS in its entirety with the attached specification.

D. **REPLACE** Document 07 72 00 **–** ROOF ACCESSORIES in its entirety with the attached specification. section titled the same.

E. **REPLACE** Document 08 71 00 **–** DOOR HARDWARE in its entirety with the attached specification. section titled the same.

F. Document 10 28 00 **–** TOILET AND BATH ACCESSORIES.
   1. Page 5, Article 2.04 Commercial Toilet Accessories:
      a. At Paragraph F:
         1) At Sub-Paragraph 3.a:
            a) **REVISE** MR1 size to be 20" wide x 30" high.

G. **ADD** Document 10 43 00 – EMERGENCY AID SPECIALTIES in its entirety.

H. **ADD** Document 12 36 00 – COUNTERTOPS in its entirety.

I. **DELETE** Document 13 12 50 **–** GRANDSTANDS in its entirety.

J. Document 32 31 13 **–** CHAIN LINK FENCES AND GATES.
   1. Page 1, Article 1.3 System Description:
      a. At Paragraph A:
         1) **REVISE** to read:
            a) "Fence Height: Refer to drawings for fence heights and locations."
   2. Page 3, Article 2.3 Components:

a. At Paragraph D:
   1) **CLARIFICATION:** The middle rail is not required for 4' high fences. A middle rail will be required for the 8' high fence.
b. At Paragraph F:
   1) **REVISE** Chain Link Fabric size to be 2.00 inch diamond mesh.

II. PART 2 - ADDENDUM TO THE DRAWINGS

A. Drawing G-101, titled, CODE INFORMATION AND SAFETY REFERENCE PLANS
   1. REVISE fire extinguisher tag in Concessions to read "FECB" to indicate a blanket is included. Coordinate with legend.

B. Drawing C-2, titled, EXISTING SITE AND REMOVAL PLAN.
   1. REPLACE sheet with attached sheet. Revised notes regarding fence, sidewalk, and retaining wall.

C. Drawing C-3, titled, PROPOSED SITE AND UTILITY PLAN.
   1. REPLACE sheet with attached sheet. Revised notes regarding fence, sidewalk, and retaining wall.

D. Drawing C-5, titled, PROPOSED PAVING PLAN.
   1. REPLACE sheet with attached sheet. Grades have been revised in the area of the stairs northwest of the proposed restrooms.

E. Drawing S100, titled, FOUNDATION PLANS.
   1. REVISE Sheet Notes.
   2. REVISE Cold Form Shear Wall Schedule.
   3. REVISE dimensions.
   4. ADD 6" concrete curb.

F. Drawing S101, titled, ROOF FRAMING PLANS.
   1. REVISE truss bearing.
   2. REVISE Cold Form Header Schedule.

G. Drawing S300, titled, CONCRETE DETAILS.
   1. REVISE holdown in detail 2.
   2. REVISE detail 10.

H. Drawing S400, titled, COLD FORM STEEL FRAMING DETAILS.
   1. REVISE detail 10.

I. Drawing AS001, titled, ARCHITECTURAL SITE PLAN.
   1. REPLACE sheet with attached sheet.

J. Drawing A-101, titled, FIRST FLOOR PLAN
   1. REPLACE sheet with attached sheet.

K. Drawing AF101, titled, FIRST FLOOR FINISH PLAN
   1. REPLACE sheet with the attached.

L. Drawing AC101, titled, FIRST FLOOR REFLECTED CEILING PLAN
   1. REPLACE sheet with the attached.

M. Drawing AR101, titled, ROOF PLAN
   1. REPLACE sheet with the attached.

N. Drawing A-301, titled, BUILDING SECTIONS
   1. REPLACE sheet with the attached.
   2. Refer to Part 3 - Clarifications section of Addendum 01.

O. Drawing A-311, titled, WALL SECTIONS
   1. REPLACE sheet with the attached.

P. Drawing A-601, titled, DOOR AND FRAME DETAILS
   1. REPLACE sheet with the attached.

Q. Drawing M-000, titled, MECHANICAL LEGEND AND SPECIFICATIONS
   1. At GENERAL NOTES
      1) ADD general note 14 to read "ALL CONTROLS FOR EXHAUST FAN AND UNIT HEATERS ARE LOCAL CONTROLS. SEE SCHEDULE SHEET M-201 FOR MORE DETAILS ON CONTROLS.

R. Drawing M-102, titled, MECHANICAL ROOF HVAC PLAN.
   1. At KEYNOTES
      1) REVISE location to add clarity to drawings.

S. Drawing E-101, titled, ELECTRICAL FIRST FLOOR POWER PLAN
   1. At CONCESSIONS 200
      1) ADD THREE CEILING DUPLEX RECEPTACLES
      2) ADD THREE CEILING DATA BOXES
      3) ADD SPECIAL OUTLET
      4) ADD DETAIL FLOOR CONDUIT PATH LINE
      5) ADD KEYNOTES 11, 12, & 13
      6) REVISE WAP CEILING MOUNTED LOCATION

T. Drawing E-301, titled, ELECTRICAL ONE LINE DIAGRAM, DETAILS, AND SCHEDULES
   1. At BRANCH PANEL: PC
      1) REVISE BREAKERS 37 & 39
   2. At LIGHTING FIXTURE SCHEDULE
      1) REVISE LIGHTING FIXTURE SCHEDULE

III. PART 3 - CLARIFICATIONS

A. Drawing A-301, titled, BUILDING SECTIONS.
   1. Drawing is reissued with graphic updates only, which are that foundations are hidden in axonometric views for clarity. Refer to structural drawings and details for more information on foundation wall design.

B. Bidding Questions and Responses
   1. See attached spreadsheet with question and response list.

END OF SECTION

This addendum consists of 3 pages.

This addendum has 53 attached pages identified below:

- Bidding Questions (3 pages)
- Substitution Summary (1 page)
- Specification Sections:
  - 07 41 13 – METAL ROOF PANELS (5 pages)
  - 07 72 00 – ROOF ACCESSORIES (2 pages)
  - 08 71 00 – DOOR HARDWARE (18 pages)
  - 10 43 00 – EMERGENCY AID SPECIALTIES (2 pages)
  - 12 36 00 – COUNTERTOPS (3 pages)
- Drawings:
  - C-2, C-3, C-5, S100, S101, S300, S400, AS001, A-101, AF101, AC101, AR101, A-301, A-311, A-601, M-000, M-102, E-101, E-301 (19 pages)

Bidding Questions

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

OWNER Moline-Coal Valley School District #40
PROJECT TITLE **Browning Field Concessions and Toilet Room Improvements**
PROJECT NUMBER 224151.00
LAST UPADTED 2/11/2025

DATE	CONTRACTOR	PRE-RFI NUMBER	QUESTION	ADDENDUM	RESPONSE
2/4/2025	Estes	1	2.02, A, 8 and 2.03, E, 4 are stating the doors are to be operated with a manual chain hoist. Many of the details in the drawings appear to indicate the doors are hand crank operated instead. There are some additional costs to the hand crank operation. Could you confirm which method of operation is needed for the overhead coiling doors?	1	Please provide the chain operated version.
2/4/2025	Lovewell Fencing Inc.	2	Section 32 31 13 paragraph 2.3F states the chain link mesh size is to be 1.75". Is this correct? That size is typically used on tennis courts. A standard mesh size for this type of work is 2".	1	The standard 2" size is acceptable.
2/4/2025	Lovewell Fencing Inc.	3	Section 32 31 13 paragraph 1.3.A states the fence is 6'h. Can you clarify what heights of fence are required. Sheet AS001 calls out 4'h & 8'h fencing.	1	The project has both 4' and 8' high fencing as noted on AS001. 6' high fencing is not used.
2/4/2025	Lovewell Fencing Inc.	4	Section 32 31 13 paragraph 2.3.D calls out the fence to have top, middle & bottom rail. Can you clarify if a middle rail is required for the 4' high fence. Typically 4' high fences don't get middle rails.	1	A middle rail is not required for the 4' high fence. It should be provided on the 8' high fence.
2/5/2025	Lovewell Fencing Inc.	5	Can you provide details on how the post footings are to be installed around the track?	1	Refer to the updated AS001 in addendum 1 for the detail of the fencing around the track.
2/5/2025	Lovewell Fencing Inc.	6	Can you also clarify exactly what fence is to be installed on sheet AS001.	1	All fencing immediately around the track is to be removed and replaced as part of alternate bid #2. All fencing along the south property line is to be removed and replaced as part of alternate bid #3. We will better note the extents of each alternate on AS001 via addendum.
2/5/2025	BSS	7	054000 spec calls for engineered shop drawings – this drawing looks like it is already "engineered" (Page S400). Please advise if we need further engineering.	1	We are doing a delegated design cold formed framed metal stud system. IMEG is providing a general basis of design, but the Cold-Formed Framed supplier will need to provide an engineered system to match the design intent.
2/6/2025	Estes	8	On your ceiling plans you call for Roof Scuttle which describes a framed drywall lid that is removable. But you also list in the specs for Access Doors and Panels. But this mentions wall mounted access. The ones in the ceilings appear to not be access doors, but we also can't find where wall access doors are called out either. Are there any? Also you have a spec for Roof Accessories that lists Roof Hatches in 1.01.A only, but we don't see anything on the drawings or rest of that section. To be clear there is no roof hatch correct?	1	The access door specification has been deleted in its entirety in addendum #1. There are no roof hatches on the project. This has been updated in addendum #1.
2/6/2025	BSS	9	It calls for a gypsum hard lid in mechanical/chase area. Could it be more cost effective for the district to have those areas be exposed? This would also eliminate the cost of framing in roof scuttles.	1	We considered removing the hard lid in the mechanical/chase area, but we are insulating the attic space and need the ceiling for the insulation. The framing of the roof scuttles is still required.
2/6/2025	BSS	10	Chase walls call for board one side only (not on the chase side).	1	Both sides of the walls are required to receive either gypsum board or plywood.
2/6/2025	Valley	11	There is an AED cabinet in Concessions 200. I didn't see any specs on it. Is it owner provided? Please advise	1	The AED will be a part of the project provided and installed by the contractor. We will be providing an AED spec.
2/6/2025	BSS	12	Drawing calls for ½" exterior gyp sheathing but the spec calls for 5/8" – please advise.	1	Please follow the drawings at 1/2" for the exterior sheathing.
2/6/2025	BSS	13	Storage room 201 calls for a gypsum hard lid – the walls in that room have plywood on it. Please confirm that the ceiling will be gypsum board (finished taped level 4) or have a plywood ceiling to match the walls .	1	We will revise this to be a plywood ceiling in Storage Room 201
2/6/2025	BSS	14	Spec only calls for a ½" ceiling board – for the walls do you want 5/8" Type X board or 5/8" MR board?	1	For the walls we will want 5/8" MR board
2/6/2025	BSS	15	Does the drywall on the mechanical room/janitor room #102 and the chase #105 need to be finished taped level 4?	1	This space does not need to be finished taped level 4. We will do a level 2 finish in these two rooms. Painting has also been removed from these two rooms.
2/6/2025	Bush	16	Shear Wall - SW2 a. Is this to be a CFMF wall or CMU, detail 12/S300 notes CMU on Foundation Wall	1	Refer to updated structural drawings

Bidding Questions

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

OWNER Moline-Coal Valley School District #40
PROJECT TITLE **Browning Field Concessions and Toilet Room Improvements**
PROJECT NUMBER 224151.00
LAST UPADTED 2/11/2025

DATE	CONTRACTOR	PRE-RFI NUMBER	QUESTION	ADDENDUM	RESPONSE
2/6/2025	Bush	17	Foundation Stub Walls - a. Detail 1/A502 show concrete stub wall? Details on S300 do not show concrete stub walls.	1	Refer to updated structural drawings
2/6/2025	Bush	18	Alternates - Architectural Site Plans note SN05: Propose Seed, Fertilize and Mat. This was not included in the bid form, are we to include this as alternate #5	1	This is to be included in alternate #4
2/6/2025	Valley	19	Is a fire blanket needed on this job? Called out in spec section 10 44 00, but not found on drawings.	1	Yes. The fire blanket should be located in Concessions 200 in the FEC. G-101 will be updated to note that the FEC should be FECB denoting the blanket requirement.
2/6/2025	Valley	20	Also, what size is the mirror? The specs have MR1 as 24 x 36 and on sheet A10, MR1 is 20 x 30	1	The mirror size will be revised in the specs to be 20x30 to match the drawings.
2/6/2025	Estes	21	You have a spec for Grandstands, but they are existing and we are removing and resetting. Also your not SN06 says design of foundations is by mfg/installer. Will they design foundations for bleachers they didn't provide? Does anyone know what kind of bleachers they are now. You list three different ones in the spec. Would it be better to have your structural guy design the new foundations.	1	The grandstand specification section will be deleted. Existing bleacher ramp system to be removed and reinstalled per notes on architectural drawings. AS001has been updated to include a ramp support slab detail.
2/6/2025	Estes	22	To clarify, you are asking for ¾" plywood behind all FRP. So is there not any drywall on the inside other than mechanical/janitor space and the ceilings?	1	We're looking for the plywood behind the FRP only in the concession building (we want to provide continuous backing for them in case they want to install shelves at various locations in the concession room). The restroom building will have drywall behind the FRP and only drywall in the mechanical/janitor space. Ceilings in both buildings will be drywall except in storage 201 where we are revising the ceiling there to be plywood via addendum.
2/7/2025	Economy Roofing	23	Can you provide a spec for the metal soffit?	1	Please refer to the updated spec section in addendum 1
2/7/2025	Economy Roofing	24	Seeing as there is an overhang and soffit, is there a need for the eave vent in section 077200 – 2.01.B? It is not shown on the plan details.	1	We will get this removed from the specifications. The eave vent is not required.
2/7/2025	Economy Roofing	25	3.077200-2.02 description of snow guards is confusing on type and attachment compared to product in 3.a which is a fence style. We would recommend the fence style fastened to the seams and not polycarbonate type which is adhered to or fastened through the flat of the panel. Same paragraph references location to be as indicated on drawings, but they are not shown or noted. Do we assume installing full perimeter of the roofs?	1	We will be using the fence style fastened to the seams. We'll also get them noted on the drawings, but you are correct in your assumption. These will be full perimeter on the roofs. Please refer to the updated 07 72 00 - Roof Accessories specification in addendum 1.
2/7/2025	Sterling Roofing	26	Soffit Panels, is there a manufacturer that they want to use specifically or do we just go with the same manufacturer we are using for the roof panels?	1	We will be updating the spec to include approved manufacturers for the soffit panel. Ideally they would be the same manufacturer as the roof panels. Please refer to the updated 07 41 13 - Metal Roof Panels specification in addendum 1.
2/7/2025	Sterling Roofing	27	What is the roof panel width they want to use?	1	16" is preferred.
2/7/2025	Sterling Roofing	28	What color panel do they want to use for the roof, soffit and all the flashing?	1	The intent is to closely match the roof color of the adjacent buildings, which is a gunmetal gray color.
2/7/2025	Bush	29	Prefinished Metal Fascia and Soffit panel specs?	1	Please refer to the updated spec section in addendum 1. Please refer to the updated 07 41 13 - Metal Roof Panels specification in addendum 1.
2/7/2025	Bush	30	Roof panel widths?	1	Roof panel widths should be 16".
2/7/2025	Estes	31	I don't see any hardwarde sets specified either, is that coming by addendum?	1	Yes, please refer to the added hardware specification in addendum 1
2/10/2025	Estes	32	Usually for the District the ROE issues the building permit. But since this isn't a "school project" more of a site job will we have to get a permit from the City of Moline? Or will the ROE be the AHJ for the permit?	1	The ROE is still the AHJ for all district projects, so permitting will go through the ROE.

Bidding Questions

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OWNER Moline-Coal Valley School District #40
PROJECT TITLE **Browning Field Concessions and Toilet Room Improvements**
PROJECT NUMBER 224151.00
LAST UPADTED 2/11/2025

DATE	CONTRACTOR	PRE-RFI NUMBER	QUESTION	ADDENDUM	RESPONSE
2/10/2025	Estes	33	Specs call for R-26 in the exterior walls or 4" CCSF. The print has full fill 6" CCSF? We can do 2" avg. per application, please clarify.	1	Please follow the drawings and provide a full fill of 6".
2/10/2025	Estes	34	Attic insulation R-38, spec calls for mineral wool batts, which I cannot source 24" wide. Would fiberglass batts work?	1	Fiberglass batts are acceptable.
2/10/2025	Prime	35	Do exterior surfaces of exposed stone masonry require block filler and exterior paint? (Spec and finish details do not indicate these finish details and paint notes indicate only brick walls shall not be painted).	1	No block filler or paint is to be applied to the stone masonry.
2/10/2025	Prime	36	Only those that receive final paint coats in exposed areas Rm. 102 and Rm. 201or all partitions (even those with FRP applied wall finish)?	1	Partitions with FRP applied are not to be painted. The ceiling is required to be painted in all room except Storage 201. Walls in rooms 102 and 201 are to not be painted.
2/10/2025	Prime	37	Block filler (SW's Loxon) is mentioned in Painting Spec 09 91 13 & 09 91 23-5 however, the partition drawing is stated as steel stud (S-6-F-1) with fully filled insulated cavity and FRP panel walls floor to ceiling showing vinyl base. Will the FRP cover from floor to ceiling with requirements to provide block filler for the 1' concrete curb and primer for new gypsum board/plywood partitions behind FRP or is the curb exposed and FRP starts approximately 1' AFF and we are required to apply primer to Gyp. board behind FRP? In addition, drawings are vague at Axonometric for exterior , does any portion of exposed concrete below thin brick need to be painted on the exterior between thin brick and where it meets grade?	1	Block filler is not required on this project. The FRP will cover the interior walls where installed from floor to ceiling. The concrete curb referenced, at interior conditions will be covered with gypsum board, FRP, or plywood. At exterior conditions it will be covered with stone or brick. None of the exposed concrete below the thin brick will be painted.
2/10/2025	Prime	38	Can you confirm that we will be able to park a 10' pull behind trailer on site for temporary storage of paint equipment and materials as bid documents do call for no storage in spaces during construction?	1	This is acceptable.
2/10/2025	Prime	39	Can you clarify if there will be lintels or ledge angles at all openings where the face brick will be applied? Drawing is not definitive at indicating a bent plate or flat plate lintel but does have detail (A-501) text indicating such, but none drawn.	1	There are not true lintels/ledge angles, but a prefinished through-wall flashing at all openings. The brick and stone are adhered to the wall with mortar and a masonry support system so separate brick lintels are not required.
2/10/2025	Estes	40	On drawing AF101 you show the concrete floors sloping to the floor drains But it doesn't show it on the structural, or A101 to slope the floors to the drains If they are sloped can you show on the structural and how much fall you want. Otherwise someone might miss it.	1	Concrete floors to slope to floor drains at 1/8" per 12". Please refer to the updated AF101 noting the sloping of the concrete floor
2/10/2025	Prime	41	Looking at the structural drawings for this project and it references shear walls but looking at the structural details on S400 but nothing on there seems to cross over with the architectural drawings…..am I missing something?	1	Shear wall locations are noted on S100.

Bid Substitution Summary

LEGAT ARCHITECTS
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OWNER Moline-Coal Valley School District 40
PROJECT TITLE **Browning Field Concessions and Toilet Room Improvements**
PROJECT NUMBER 224151.00

Release 1 2/10/2025
Release 2

Note: Substitions which are approved shall meet all aspects of the specification and basis of deisgn products.

Date	Contractor/Supplier	Spec Section	Item	Action	Notes
2/5/25	Sterling Commercial Roofing	07 41 13	Berridge Cee-Lock Panel	Approved	
2/5/25	Sterling Commercial Roofing	07 41 13	Atlas - Dutch Seam	Approved	
2/5/25	Sterling Commercial Roofing	07 41 13	Elevate - Una-Clad UC-14	Approved	
2/6/25	Plumb Supply Company	DIV 22	Kohler & Sloan	Approved	Virterous China - Urinals, Toilets, & Sinks
2/6/25	Plumb Supply Company	DIV 22	Delta & Chicago Faucets	Approved	Lavatory and Sink Faucets
2/8/25	Plumb Supply Company	DIV 22	Sloan & Kohler	Approved	Flush Valves
2/10/25	Asta America	08 33 23	Asta America - Asta 600 Insulated Series Door	Approved	

SECTION 07 41 13
METAL ROOF PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Metal roof panel system of preformed steel panels.

B. Metal soffit panel system.

C. Attachment system.

D. Finishes.

E. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Roof sheathing.

1.03 REFERENCE STANDARDS

A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

B. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.

D. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2023.

E. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2021.

F. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2023.

G. ASTM E1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference; 2005 (Reapproved 2017).

H. ASTM E1646 - Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference; 1995 (Reapproved 2018).

I. ASTM E1680 - Standard Test Method for Rate of Air Leakage through Exterior Metal Roof Panel Systems; 2016 (Reapproved 2022).

J. ICC-ES AC188 - Acceptance Criteria for Roof Underlayments; 2023.

K. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies; Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Storage and handling requirements and recommendations.
   2. Installation methods.
   3. Specimen warranty.

C. Shop Drawings: Include layouts of roof panels, details of edge and penetration conditions, spacing and type of connections, flashings, underlayments, and special conditions.
   1. Show work to be field-fabricated or field-assembled.

2. Include structural analysis signed and sealed by qualified structural engineer, indicating compliance of roofing system to specified loading conditions.

D. Selection Samples: For each roofing system specified, submit color chips representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each roofing system specified, submit samples of minimum size 12 inches square, representing actual roofing metal, thickness, profile, color, and texture.
   1. Include typical panel joint in sample.
   2. Include typical fastening detail.

F. Manufacturer's qualification statement.

G. Installer's qualification statement.

H. Test Reports: Indicate compliance of metal roofing system to specified requirements.

I. Warranty: Submit specified manufacturer's warranty and ensure that forms have been completed in Owner's name and are registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section and with at least three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Provide strippable plastic protection on prefinished roofing panels for removal after installation.

B. Store roofing panels on project site as recommended by manufacturer to minimize damage to panels prior to installation.

1.07 FIELD CONDITIONS

A. Do not install metal roof panels, eave protection membrane or underlayment when surface, ambient air, or wind chill temperatures are below 45 degrees Fahrenheit.

1.08 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Finish Warranty: Provide 20-year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

C. Special Warranty: Provide 2-year warranty for weathertightness of roofing system, including agreement to repair or replace metal roof panels that fail to keep out water commencing on the Date of Substantial Completion. Complete forms in Owner's name and register with warrantor.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Architectural Metal Roof Panel Manufacturers:
   1. ATAS International, Inc; Dutch Seam with stiffening ribs - 15" O.C.: www.atas.com/#sle.
   2. Berridge Manufacturing Company; Cee-Lock Panel with ribs- 16-1/2" O.C.: www.berridge.com/#sle.
   3. Petersen Aluminum Corporation; Snap-Clad Panel with pencil ribs - 16" O.C.: www.pac-clad.com/#sle.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

B. Metal Soffit Panels Manufacturers:
   1. ATAS International, Inc: www.atas.com/#sle.
   2. Berridge Manufacturing Company: www.berridge.com/#sle.
   3. Petersen Aluminum Corporation : www.pac-clad.com/#sle.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

A. Metal Roof Panels: Provide complete roofing assemblies, including roof panels, clips, fasteners, connectors, and miscellaneous accessories, tested for compliance with the following minimum standards:
   1. Structural Design Criteria: Provide panel assemblies designed to safely support design loads at support spacing indicated, with deflection not to exceed L/180 of span length(L) when tested in accordance with ASTM E1592.
      a. Dead Loads: Weight of roofing system.
      b. Live Loads: As required by ASCE 7.
   2. Overall: Complete weathertight system tested and approved in accordance with ASTM E1592.
   3. Wind Uplift: Class 90 wind uplift resistance of UL 580.
   4. Air Infiltration: Maximum 0.06 cfm/sq ft at air pressure differential of 6.24 lbf/sq ft, when tested according to ASTM E1680.
   5. Water Penetration: No water penetration when tested in accordance with procedures and recommended test pressures of ASTM E1646; perform test immediately following air infiltration test.
   6. Thermal Movement: Design system to accommodate without deformation anticipated thermal movement over ambient temperature range of 100 degrees Fahrenheit.

2.03 METAL ROOF PANELS

A. Metal Roof Panels: Provide complete engineered system complying with specified requirements and capable of remaining weathertight while withstanding anticipated movement of substrate and thermally induced movement of roofing system.

B. Metal Panels: Factory-formed panels with factory-applied finish.
   1. Steel Panels:
      a. Zinc-coated steel complying with ASTM A653/A653M; minimum G60 galvanizing.
      b. Steel Thickness: Minimum 24 gauge, 0.024 inch.
   2. Profile: Standing seam, with minimum 1-1/2-inch seam height; concealed fastener system for snap-on application of matching standing seam batten.
   3. Texture: Smooth.
   4. Length: Maximum possible length to minimize lapped joints. Where lapped joints are unavoidable, space laps so that each sheet spans over three or more supports.
   5. Width: Maximum panel coverage of 24 inches.

C. Metal Soffit Panels:
   1. Basis of Design: PAC-750 Soffit - Half Vent
   2. Profile: Vee Groove, with venting provided.
   3. Material: Precoated steel sheet, 20 gauge, 0.032 inch minimum thickness.
   4. Color: As selected by Architect from manufacturer's full line.

2.04 ATTACHMENT SYSTEM

A. Concealed System: Provide manufacturer's standard stainless steel or nylon-coated aluminum concealed anchor clips designed for specific roofing system and engineered to meet performance requirements, including anticipated thermal movement.

2.05 SECONDARY FRAMING

A. Miscellaneous Secondary Framing: Light gauge steel framing incidental to structural supports; fabricated from steel sheet.

B. Framing Material: ASTM A1011/A1011M, Designation SS steel sheet.
   1. Profile: Manufacturer's standard hat channel, single slope eave strut, double slope eave strut, and angle.
   2. Thickness: 12 gauge, 0.1046 inch.
   3. Finish: Galvanized per ASTM A653/A653M, G90.

C. Framing Connectors: Factory-made formed steel sheet, ASTM A653/A653M SS Grade 50, with G60/Z180 hot dipped galvanized coating and factory punched holes.

2.06 FABRICATION

A. Panels: Provide factory or field fabricated panels with applied finish and accessory items, using manufacturer's standard processes as required to achieve specified appearance and performance requirements.

B. Joints: Provide captive gaskets, sealants, or separator strips at panel joints to ensure weathertight seals, eliminate metal-to-metal contact, and minimize noise from panel movements.

2.07 FINISHES

A. Fluoropolymer Coil Coating System: Manufacturer's standard multi-coat metal coil coating system complying with AAMA 2605, including at least 70 percent polyvinylidene fluoride (PVDF) resin, and at least 80 percent of coil coated metal surfaces having minimum total dry film thickness (DFT) of 0.9 mil, 0.0009 inch; color and gloss to match sample.

2.08 ACCESSORIES

A. Miscellaneous Sheet Metal Items: Provide flashings, gutters, downspouts, trim, moldings, and closure strips of the same material, thickness, and finish as used for the roofing panels. Items completely concealed after installation may optionally be made of stainless steel.
   1. Downspouts: Open face, rectangular profile.

B. Rib and Ridge Closures: Provide prefabricated, close-fitting components of steel with corrosion resistant finish or combination steel and closed-cell foam.

C. Prefinished sheet metal ridge vent system.

D. Sealants:
   1. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane.
   2. Concealed Sealant: Non-curing butyl sealant or tape sealant.
   3. Seam Sealant: Factory-applied, non-skinning, non-drying type.

E. Underlayment: Self-adhering polymer modified asphalt sheet complying with ASTM D1970/D1970M, with strippable release film and top surface of woven polypropylene sheet.
   1. Minimum Requirements: Comply with requirements of ICC-ES AC188 for non-self-adhesive sheet.
   2. Sheet Thickness: 22 mil, 0.022 inch minimum total thickness.
   3. Self Sealability: Nail sealability in accordance with ASTM D1970/D1970M.
   4. Low Temperature Flexibility: Comply with ASTM D1970/D1970M.
   5. Water Vapor Permeance: 0.1 perm, maximum, when tested in accordance with ASTM E96/E96M using Desiccant Method (Method A).
   6. Products:
      a. Certainteed Roofing; WinterGuard HT - High Temperature Waterproofing Underlayment: www.certainteed.com/#sle.
      b. Henry Company; Blueskin PE200HT: www.henry.com/#sle.
      c. Polyglass USA, Inc; Polystick MTS Self-Adhered High Temperature Roof Underlayment: www.polyglass.us/#sle.
      d. Substitutions: See Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation of preformed metal roof panels until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Broom clean wood sheathing prior to installation of roofing system.

B. Coordinate roofing work with provisions for roof drainage, flashing, trim, penetrations, and other adjoining work to ensure that completed roof will be free of leaks.

C. Remove protective film from surface of roof panels immediately prior to installation; strip film carefully to avoid damage to prefinished surfaces.

D. Separate dissimilar metals by applying a bituminous coating, self-adhering rubberized asphalt sheet, or other permanent method approved by metal roof panel manufacturer.

E. Protect surrounding areas and adjacent surfaces from damage during execution of this work.

F. At locations where metal will be in contact with wood or other absorbent material subject to wetting, seal joints with sealing compound and apply one coat of heavy-bodied bituminous paint.

3.03 INSTALLATION

A. Overall: Install roofing system in accordance with approved shop drawings and metal roof panel manufacturer's instructions and recommendations, as applicable to specific project conditions; securely anchor components of roofing system in place allowing for thermal and structural movement.

1. Install roofing system with concealed clips and fasteners, except as otherwise recommended by manufacturer for specific circumstances.
2. Minimize field cutting of panels. Where field cutting is required, use methods that will not distort panel profiles. Use of torches for field cutting is prohibited.

B. Accessories: Install necessary components that are required for complete roofing assembly, including flashings, gutters, downspouts, trim, moldings, closure strips, caps, rib closures, and similar roof accessory items.

C. Roof Panels: Install metal roof panels in accordance with manufacturer's installation instructions, minimizing transverse joints except at junction with penetrations.

1. Provide concealed clips at panel joints, and apply snap-on battens to provide weathertight joints.
2. Provide sealant tape or other approved joint sealer at lapped panel joints.
3. Install sealant or sealant tape at end laps and side joints as recommended by metal roof panel manufacturer.

3.04 CLEANING

A. Clean exposed sheet metal work at completion of installation. Remove grease and oil films, excess joint sealer, handling marks, and debris from installation, leaving the work clean and unmarked, free from dents, creases, waves, scratch marks, or other damage to the finish.

3.05 PROTECTION

A. Do not permit storage of materials or roof traffic on installed roof panels. Provide temporary walkways or planks as necessary to avoid damage to completed work. Protect roofing until completion of project.

B. Touch-up, repair, or replace damaged roof panels or accessories before Date of Substantial Completion.

END OF SECTION 07 41 13

SECTION 07 72 00
ROOF ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Ridge vents.

B. Snow guards.

1.02 REFERENCE STANDARDS

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used.
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.
   4. Maintenance requirements.

C. Shop Drawings: Submit detailed layout developed for this project and provide dimensioned location and number for each type of roof accessory.
   1. Snow Guards: Submit design calculations for loadings and spacings based on manufacturer testing.

D. Warranty Documentation:
   1. Submit manufacturer warranty.
   2. Ensure that forms have been completed in Owner's name and registered with manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store products under cover and elevated above grade.

1.05 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS

2.01 ROOF HATCHES AND VENTS

A. Ridge Vents: Factory fabricated, formed panels with integral attachment flanges and snap-on cover.
   1. Vent Material: 0.040-inch thick aluminum.
   2. Vent Material: 22-gauge, 0.0299-inch steel.
   3. Perforated Screen: 0.050-inch thick aluminum.
   4. Brackets: Manufacturer's standard 20 gauge, 0.0359 inch.
   5. Finish Color: To be selected by Architect from manufacturer's full range.
   6. Products:
      a. Atlas Roofing Corporation; Techni-Flo RV Engineered Ridge Vent: www.atlasroofing.com/#sle.
      b. Certainteed Roofing; Filtered Ridge Vent - 12 Inch: www.certainteed.com/#sle.
      c. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 SNOW GUARDS

A. Fence Type Snow Guard: Continuous snow guard; manufacturer's standard pipe, bar, channel, or solid rod, set in brackets or posts, with optional plates and metal trim to match roof.
   1. Brackets: Zinc plated steel.
   2. Pipe or Square Tube: Powder coating with color to match roof.

a. Outside Diameter, Round: 1 inch, nominal.
b. Sleeve Couplings: Manufacturer's standard material.
c. End Collars and Caps: Metal to match tube.

3. Supplemental Plates and Clips: Attached to horizontal component; match finish of pipe, tube, rod, or channel.
4. Clamps for Standing Seam Roof: Aluminum clamps attached to standing seams of roof panels; for attachment of fence type snow guard.
   a. Seam Profile: Selected by Architect from manufacturer's standard range; match profile of metal roof.
   b. Finish: Powder coating with color to match roof.
5. Products:
   a. Alpine SnowGuards; ASG4025-AL Standing Seam Two-Pipe Snow Guard: www.alpinesnowguards.com/#sle.
   b. Berger Building Products; Berger Snow Rail System: www.bergerbp.com/#sle.
   c. LMCurbs; SnowGuard System: www.lmcurbs.com/#sle.
   d. TRA Snow and Sun; C22Z Clamp-On: www.trasnowandsun.com/#sle.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using methods recommended by manufacturer for achieving acceptable results for applicable substrate under project conditions.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions, in manner that maintains roofing system weather-tight integrity.

3.04 CLEANING

A. Clean installed work to like-new condition.

3.05 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION 07 72 00

SECTION 08 71 00
DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware

B. Related Sections:

1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
   a. "Metal Doors and Frames"

1.02 REFERENCES

A. UL LLC

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

1. NFPA 70 – National Electric Code
2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors

5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.03 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
   a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
   b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
   a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

3. Door Hardware Schedule:
   a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
   b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
   c. Indicate complete designations of each item required for each opening, include:
      1) Door Index: door number, heading number, and Architect's hardware set number.
      2) Quantity, type, style, function, size, and finish of each hardware item.
      3) Name and manufacturer of each item.
      4) Fastenings and other pertinent information.
      5) Location of each hardware set cross-referenced to indications on Drawings.
      6) Explanation of all abbreviations, symbols, and codes contained in schedule.
      7) Mounting locations for hardware.
      8) Door and frame sizes and materials.
      9) Degree of door swing and handing.

4. Key Schedule:
   a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
   b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.

c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
2. Provide Product Data:
   a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
   b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
   a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
   b. Catalog pages for each product.
   c. Final approved hardware schedule edited to reflect conditions as installed.
   d. Final keying schedule
   e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
   a. Fire door assemblies, in compliance with NFPA 80.
   b. Required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
   a. For door hardware: DHI certified AHC or DHC.

b. Can provide installation and technical data to Architect and other related subcontractors.
c. Can inspect and verify components are in working order upon completion of installation.
d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.

4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

1. Accessibility Requirements:
a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

1. Keying Conference
a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
2) Preliminary key system schematic diagram.
3) Requirements for key control system.
4) Requirements for access control.
5) Address for delivery of keys.

2. Pre-installation Conference
a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
b. Inspect and discuss preparatory work performed by other trades.
c. Inspect and discuss electrical roughing-in for electrified door hardware.
d. Review sequence of operation for each type of electrified door hardware.
e. Review required testing, inspecting, and certifying procedures.
f. Review questions or concerns related to proper installation and adjustment of door hardware.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.

C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.

D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.07 WARRANTY

A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.

1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
   a. Mechanical Warranty
      1) Locks
         a) Schlage L Series: 10 years
      2) Closers
         a) LCN 4000 Series: 30 years

1.08 MAINTENANCE

A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."

   1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.

B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.

C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.

D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fabrication

   1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
   2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
   3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

   1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

C. Cable and Connectors:

   1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
   2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
   3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Ives 5BB series

2. Acceptable Manufacturers and Products:
   a. Hager BB1191/1279 series
   b. McKinney TB series
   c. Best FBB series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
   a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
   b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
   a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

5. 2 inches or thicker doors:
   a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
   a. Steel Hinges: Steel pins
   b. Non-Ferrous Hinges: Stainless steel pins
   c. Out-Swinging Exterior Doors: Non-removable pins
   d. Out-Swinging Interior Lockable Doors: Non-removable pins
   e. Interior Non-lockable Doors: Non-rising pins

9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Roton
   b. ABH
   c. Hager

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Rockwood
   c. Trimco

B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless-steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.06 MORTISE LOCKS

A. Manufacturers and Products:

1. Acceptable Manufacturers and Products:
   a. Sargent 8200 series
   b. Best 45H series

B. Requirements:

1. Provide motor based electrified locksets that comply with the following requirements:
2. Provide locks with a key override feature built into the chassis that allows the outside key to retract the deadbolt and/or latchbolt, overriding the inside thumbturn when it is being held in the locked position.
3. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.

2.07 CYLINDERS

A. Manufacturers and Products:

1. Scheduled Manufacturer:
   a. Best

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide cylinders/cores compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset; manufacturer's series as indicated. Refer to "KEYING" article, herein.
2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
   a. Open: cylinder with small format interchangeable core (SFIC) core with open keyway

2.08 KEYING

A. Scheduled System:

1. Existing factory registered system:
   a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:

1. Construction Keying:
   a. Replaceable Construction Cores.
      1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
         a) 3 construction control keys
         b) 12 construction change (day) keys.
      2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.

2. Permanent Keying:
   a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
      1) Master Keying system as directed by the Owner.
   b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
   c. Provide keys with the following features:
      1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
      2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
   d. Identification:
      1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
      2) Identification stamping provisions must be approved by the Architect and Owner.

3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.

e. Quantity: Furnish in the following quantities.
1) Permanent Control Keys: 3.
2) Master Keys: 6.
3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
4) Key Blanks: Quantity as determined in the keying meeting.

2.09 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. LCN 4040XP series

2. Acceptable Manufacturers and Products:
   a. Sargent 281 series

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.
11. Closers shall be capable of being upgraded by adding modular mechanical or electronic components in the field.

2.10 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Trimco
   c. Rockwood

B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.11 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Trimco
   c. Rockwood

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.12 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
   a. Glynn-Johnson

2. Acceptable Manufacturers:
   a. Rixson
   b. ABH

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.

2.13 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Zero International

2. Acceptable Manufacturers:
   a. National Guard
   b. Reese
   c. Pemko

B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.14 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Rockwood
   c. Trimco

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.15 FINISHES

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
4. Protection Plates: BHMA 630 (US32D)
5. Overhead Stops and Holders: BHMA 630 (US32D)
6. Door Closers: Powder Coat to Match

7. Wall Stops: BHMA 630 (US32D)
8. Latch Protectors: BHMA 630 (US32D)
9. Weatherstripping: Clear Anodized Aluminum
10. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.01 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
4. Installation Guide for Doors and Hardware: DHI TDH-007-20

B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.

C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.

D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.

I. Lock Cylinders:

1. Install construction cores to secure building and areas during construction period.
2. Replace construction cores with permanent cores as indicated in keying section.
3. Furnish permanent cores to Owner for installation.

J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:

1. Conduit, junction boxes and wire pulls.
2. Connections to and from power supplies to electrified hardware.
3. Connections to fire/smoke alarm system and smoke evacuation system.
4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
5. Connections to panel interface modules, controllers, and gateways.
6. Testing and labeling wires with Architect's opening number.

K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

L. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.

M. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.

N. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

O. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.

P. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

Q. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

R. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

S. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

T. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.
2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items per manufacturer's instructions to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.05 DOOR HARDWARE SCHEDULE

A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.

C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

D. Hardware Sets:

127042 OPT0409783 Version 1

Legend:
Link to catalog cut sheet
Electrified Opening

Hardware Group No. 010.0

For use on Door #(s):
101

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224HD		US28	IVE
1	EA	CORRIDOR LOCK W/ OUTSIDE INDICATOR W/ INSIDE INDICATOR	L9456L 06A L583-363 OS-OCC IS-OCC XL13-439		626	SCH
1	EA	MORTISE CYLINDER	1E74 AS REQD		626	BES
1	EA	OH STOP	90S		630	GLY
1	EA	SURFACE CLOSER	4040XP REG		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142A DW + 4"		AA	ZER
1	EA	GASKETING	328AA-S		AA	ZER
1	EA	DOOR SHOE	153A		A	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A-223		A	ZER

Hardware Group No. 020.0

For use on Door #(s):
102 201

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224HD		US28	IVE
1	EA	STOREROOM LOCK	L9080L 06A		626	SCH
1	EA	MORTISE CYLINDER	1E74 AS REQD		626	BES
1	EA	OH STOP	90S		630	GLY
1	EA	SURFACE CLOSER	4040XP RW/62A		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142A DW + 4"		AA	ZER
1	EA	GASKETING	328AA-S		AA	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A-223		A	ZER

Hardware Group No. 030.0

For use on Door #(s):
103 104

Provide each DE door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	224HD		US28	IVE
2	EA	MANUAL FLUSH BOLT	FB458		626	IVE
1	EA	DUST PROOF STRIKE	DP2		626	IVE
1	EA	CLASSROOM DEAD LOCK	L463L		643E	SCH
1	EA	MORTISE CYLINDER	1E74 AS REQD		626	BES
2	EA	PUSH PLATE	8200 6" X 16"		630	IVE
2	EA	PULL PLATE	8303 10" 6" X 16"		630	IVE
2	EA	OH STOP	90S		630	GLY
2	EA	SURFACE CLOSER	4040XP RW/62A		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142A DW + 4"		AA	ZER
1	EA	ASTRAAGAL - 1 PIECE	322A		A	ZER
1	EA	GASKETING	328AA-S		AA	ZER
2	EA	DOOR SHOE	153A		A	ZER
2	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A-223		A	ZER

Hardware Group No. 040.0

For use on Door #(s):
200

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	224HD		US28	IVE
2	EA	MANUAL FLUSH BOLT	FB458		626	IVE
1	EA	DUST PROOF STRIKE	DP2		626	IVE
1	EA	STOREROOM LOCK	L9080L 06A		626	SCH
1	EA	MORTISE CYLINDER	1E74 AS REQD		626	BES
2	EA	OH STOP	90S		630	GLY
2	EA	SURFACE CLOSER	4040XP RW/62A		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142A DW + 4"		AA	ZER
2	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A-223		A	ZER

ASTRAGAL BY HOLLOW METAL DOOR MFG.

Hardware Group No. 050.0

For use on Door #(s):
200A 200B 200C 200D

Provide each RU door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	OH Door - All Hardware by Door Mfg			

Hardware Group No. 060.0

For use on Door #(s):
200E

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070L 06A	626	SCH
1	EA	MORTISE CYLINDER	1E74 AS REQD	626	BES
1	EA	OH STOP	90S	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

END OF SECTION

SECTION 10 43 00
EMERGENCY AID SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Automated external defibrillators (AEDs).

B. Automated external defibrillator (AED) cabinets.

C. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Wood blocking product and execution requirements.

B. Section 09 91 23 - Interior Painting: Field paint finish.

1.03 DEFINITIONS

1.04 REFERENCE STANDARDS

A. ASTM E814 - Standard Test Method for Fire Tests of Penetration Firestop Systems; 2023a.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide AED operational features, color and finish, anchorage details, and installation instructions.

C. Shop Drawings: Indicate locations of cabinets and cabinet physical dimensions.

D. Manufacturer's Installation Instructions: Indicate special criteria and wall opening coordination requirements.

E. Maintenance Data: Include test schedules and recertification requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Automated External Defibrillators (AEDs):
   1. Philips Medical Systems; _____: www.usa.philips.com/#sle.
   2. Stryker Corporation; HeartSine samaritan PAD 350P Defibrillator - PAD 350p: www.stryker.com/#sle.
   3. Substitutions: See Section 01 60 00 - Product Requirements.

B. Emergency Aid Cabinets and Accessories:
   1. Activar Construction Products Group, Inc. - JL Industries; LifeStart 1400 Series AED Cabinet: www.activarcpg.com/#sle.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 AUTOMATED EXTERNAL DEFIBRILLATORS (AEDS)

A. Automated External Defibrillators (AEDs) - General: FDA approval required.

2.03 EMERGENCY AID CABINETS

A. Type: Automated external defibrillator (AED).

B. Cabinet Construction: Non-fire-rated.

C. Cabinet Configuration: Semi-recessed type.
   1. Size to accommodate AED.

D. Door: 0.036 inch metal thickness, reinforced for flatness and rigidity with wire pull handle and nylon catch. Hinge door for 180 degree opening with two butt hinges.

E. Door Glazing: Tempered glass, clear, 1/8 inch thick, and set in resilient channel glazing gasket.

F. Cabinet Mounting Hardware: Appropriate to cabinet, with predrilled holes for placement of anchors.

G. Fabrication: Weld, fill, and grind components smooth.

H. Finish of Cabinet Exterior Trim and Door: No.4 - Brushed stainless steel.

I. Finish of Door Pull or Handle: Stainless steel.

J. Finish of Cabinet Interior: White powder coat.

2.04 ACCESSORIES

A. Cabinet Door Signage: 'AED" decal, or vinyl self-adhering, prespaced black lettering and identifying graphic in accordance with authorities having jurisdiction (AHJ).

B. Plastic Wall Signage: Flat style.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify rough openings for cabinet are correctly sized and located.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Wall Signs:
   1. Location: Where shown.

C. Cabinet Lettering:
   1. Location: Face of door framing.

3.03 ADJUSTING AND CLEANING

A. Remove temporary protective coverings and strippable films, if any, as cabinets are installed unless otherwise indicated in manufacturer's written installation instructions.

B. Adjust cabinet doors to operate smoothly without binding. Verify that alarms and integral locking devices operate properly.

C. On completion of cabinet installation, clean interior and exterior surfaces as recommended by manufacturer.

D. Touch up marred finishes. Replace cabinets that cannot be restored to factory-finished appearance. Use materials and procedures recommended by cabinet manufacturer.

3.04 CLOSEOUT ACTIVITIES

A. See Section 01 78 00 - Closeout Submittals for closeout submittals.

B. Demonstrate proper operation of AED to Owner's designated representative.

END OF SECTION 10 43 00

SECTION 12 36 00
COUNTERTOPS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wall-hung counters and vanity tops.

1.02 REFERENCE STANDARDS

A. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2023.

B. PS 1 - Structural Plywood; 2023.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Specimen warranty.

C. Shop Drawings: Complete details of materials and installation ; combine with shop drawings of cabinets and casework specified in other sections.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than three years of documented experience.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.06 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.01 COUNTERTOPS

A. Stainless Steel Countertops: , Type 304, stainless steel sheet; 18 gauge, 0.05 inch nominal sheet thickness.
   1. Finish: 4B satin brushed finish.
   2. Exposed Edge Shape: Bullnose with return; 1 inch radius, return to face of case or wall; reinforced with hardwood or steel.
   3. Back and End Splashes: Same material; welded 1/4 inch radius coved joint to countertop; square top edge with 1 inch wide top surface and minimum 1/2 inch turndown.
   4. Splash Dimensions: 4 inch high by 1 inch thick, unless otherwise indicated.
   5. Associated Top of Partial Height Wall Caps: Same Material, same thickness.

2.02 MATERIALS

A. Plywood for Supporting Substrate: PS 1 Exterior Grade, A-C veneer grade, minimum 5-ply; minimum 3/4 inch thick; join lengths using metal splines.

B. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.

C. Joint Sealant: Mildew-resistant silicone sealant, white.

2.03 ACCESSORIES

A. Fixed Top-Mounted Countertop Support Brackets:
   1. Material: Steel.
   2. Finish: Manufacturer's standard, factory-applied, textured powder coat.
   3. Color: Black.
   4. Products:
      a. Centerline Brackets; Front Mounting Plus Countertop Support: www.countertopbracket.com/#sle.
      b. Substitutions: See Section 01 60 00 - Product Requirements.

2.04 FABRICATION

A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
   1. Join lengths of tops using best method recommended by manufacturer.
   2. Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall.
   3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.

B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
   1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.
   2. Height: 4 inches, unless otherwise indicated.

C. Stainless Steel: Fabricate tops up to 144 inches long in one piece including nosings and back and end splashes; accurately fitted mechanical field joints in lengths over that dimension are permitted.
   1. Weld joints; grind smooth and polish to match.
   2. Provide stainless steel hat channel stiffeners, welded or soldered to underside, where indicated on drawings.
   3. Provide wall clips for support of back/end splash turndowns.
   4. Sound Deadening: Apply water resistant, fire resistant sound deadening mastic to entire bottom surface.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.

B. Attach stainless steel countertops using stainless steel fasteners and clips.

C. Seal joint between back/end splashes and vertical surfaces.

3.04 TOLERANCES

A. Variation From Horizontal: 1/8 inch in 10 feet, maximum.

B. Offset From Wall, Countertops: 1/8 inch maximum; 1/16 inch minimum.

C. Field Joints: 1/8 inch wide, maximum.

3.05 CLEANING

3.06 PROTECTION

A. Protect installed products until completion of project.

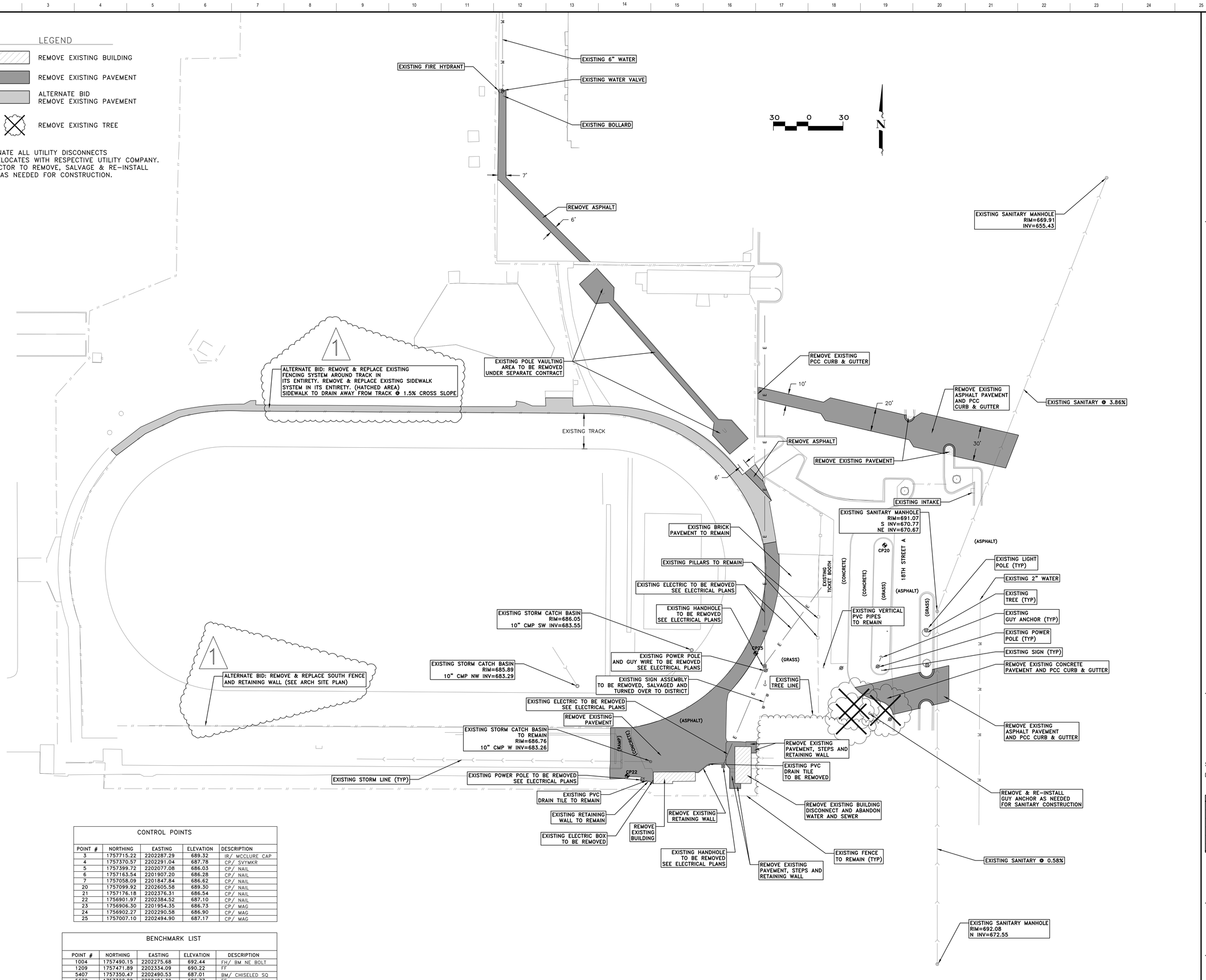
B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION 12 36 00

LEGEND

- REMOVE EXISTING BUILDING
- REMOVE EXISTING PAVEMENT
- ALTERNATE BID REMOVE EXISTING PAVEMENT
- REMOVE EXISTING TREE

NOTES:
1. COORDINATE ALL UTILITY DISCONNECTS AND RELOCATES WITH RESPECTIVE UTILITY COMPANY.
2. CONTRACTOR TO REMOVE, SALVAGE & RE-INSTALL FENCE AS NEEDED FOR CONSTRUCTION.



CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
3	1757715.22	2202287.29	689.32	IR/ MCCLURE CAP
4	1757370.57	2202291.04	687.78	CP/ SVYMKR
5	1757399.72	2202077.08	686.03	CP/ NAIL
6	1757163.54	2201907.20	686.28	CP/ NAIL
7	1757058.09	2201847.84	686.62	CP/ NAIL
20	1757099.92	2202605.58	689.30	CP/ NAIL
21	1757176.18	2202376.31	686.54	CP/ NAIL
22	1756901.97	2202384.52	687.10	CP/ NAIL
23	1756906.30	2201954.35	686.73	CP/ MAG
24	1756902.27	2202290.58	686.90	CP/ MAG
25	1757007.10	2202494.90	687.17	CP/ MAG

BENCHMARK LIST

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1004	1757490.15	2202275.68	692.44	FH/ BM NE BOLT
1209	1757471.89	2202334.09	690.22	FF
5407	1757350.47	2202490.53	687.01	BM/ CHISELED SQ
5620	1757320.09	2202401.39	686.77	FF

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1	ADDENDUM 1	2/10/25

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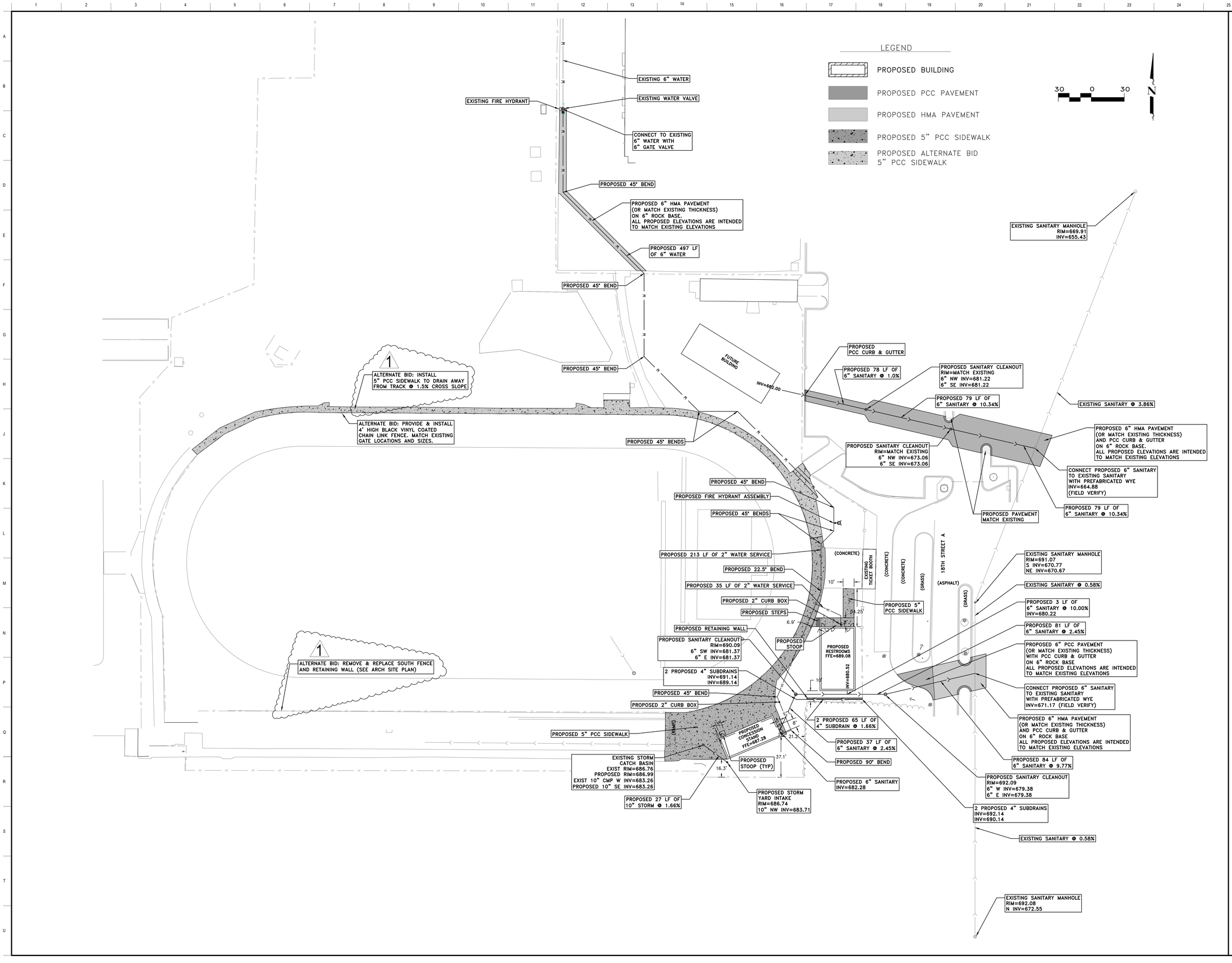
DRAWN BY:	JAL
CHECKED BY:	MWJ

EXISTING SITE AND REMOVAL PLAN

C-2

ADDENDUM 1



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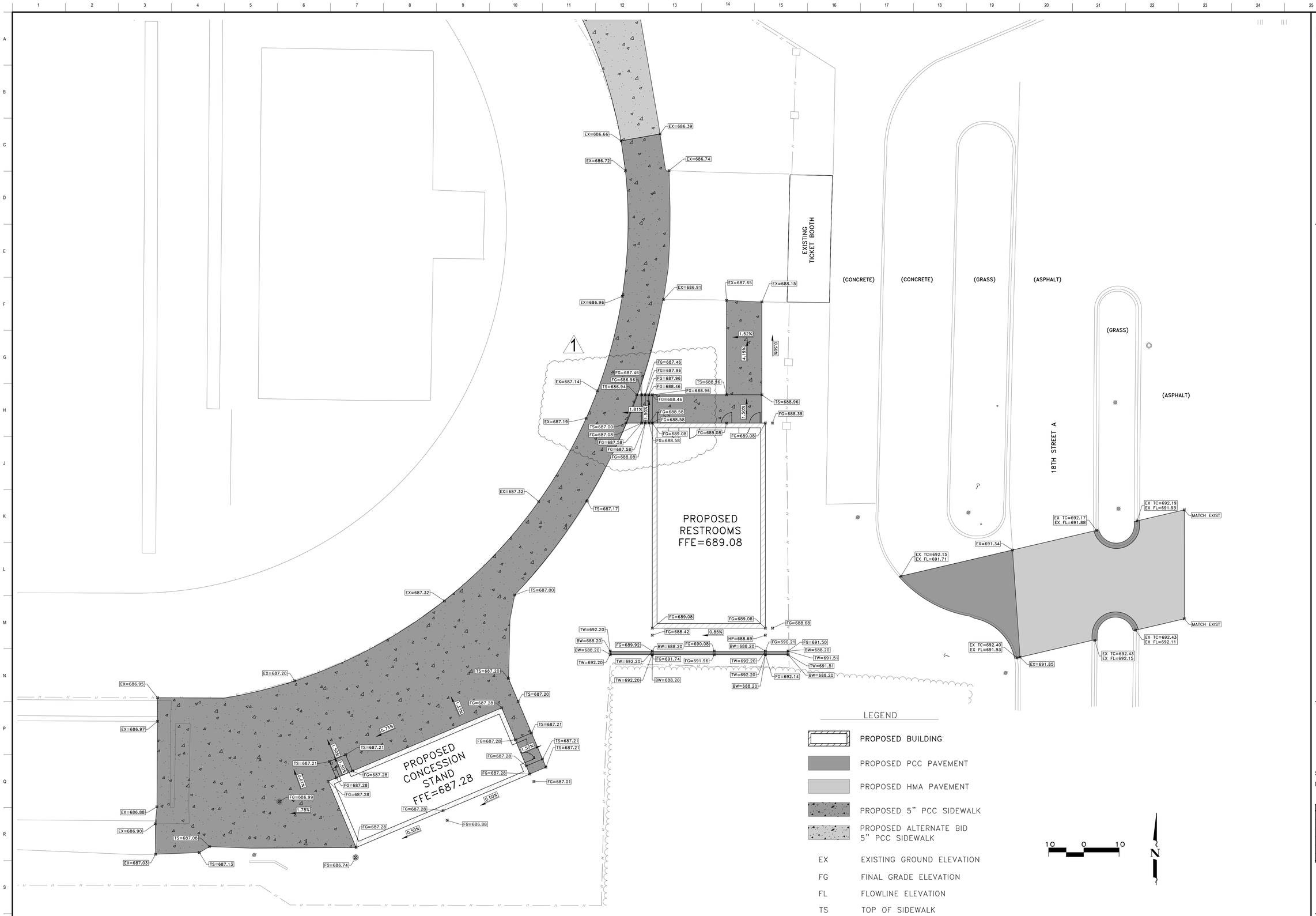
PROPOSED SITE AND UTILITY PLAN

C-3

ADDENDUM 1



LEGEND

	PROPOSED BUILDING
	PROPOSED PCC PAVEMENT
	PROPOSED HMA PAVEMENT
	PROPOSED 5" PCC SIDEWALK
	PROPOSED ALTERNATE BID 5" PCC SIDEWALK
EX	EXISTING GROUND ELEVATION
FG	FINAL GRADE ELEVATION
FL	FLOWLINE ELEVATION
TS	TOP OF SIDEWALK
TW	TOP OF WALL
BW	BOTTOM OF WALL
HP	HIGH POINT
EX TC	EXISTING TOP OF CURB ELEVATION
EX FL	EXISTING FLOWLINE ELEVATION

10 0 10

N

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PROPOSED PAVING PLAN

C-5

ADDENDUM 1

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING		REMARKS
			LONG DIRECTION	SHORT DIRECTION	
CF3.0	3'-0"	1'-0"	(3) #5	-	
CF4.0	4'-0"	1'-0"	(4) #5	#5 @ 14" OC	

FOUNDATION WALL REINFORCING SCHEDULE

WALL THICKNESS	HORIZONTAL		VERTICAL		REMARKS
	EXTERIOR FACE	INTERIOR FACE	EXTERIOR FACE	INTERIOR FACE	
0" TO 10"	#5 @ 18" OC	-	#5 @ 12" OC	-	SEE NOTE 1
1'-0" TO 1'-4"	#5 @ 12" OC	#5 @ 12" OC	#5 @12" OC	#5 @ 12" OC	-

NOTE:

1. CENTERED IN WALL THICKNESS.

COLD FORM SHEAR WALL SCHEDULE

MARK	APA RATED SHEATHING			PANEL SCREW SIZE AND SPACING			FRAMING SIZE AT ADJOINING PANEL EDGES, MIN	HOLDOWN			REMARKS
	THICKNESS	GRADE	SIDES	SIZE	EDGE	FIELD		TYPE	ANCHOR ROD	STUD FASTENERS	
1	15/32"	STRUCTURAL 1	ONE	#10 @	6	12	600S200-43	HTT5	SIMPSON SSTB16	(26) #10	NOTE 7
2	15/32"	STRUCTURAL 1	ONE	#10 @	6	12	(2) 600S200-43	S/HDU8	SIMPSON SSTB16	(12) #14	-

NOTES:

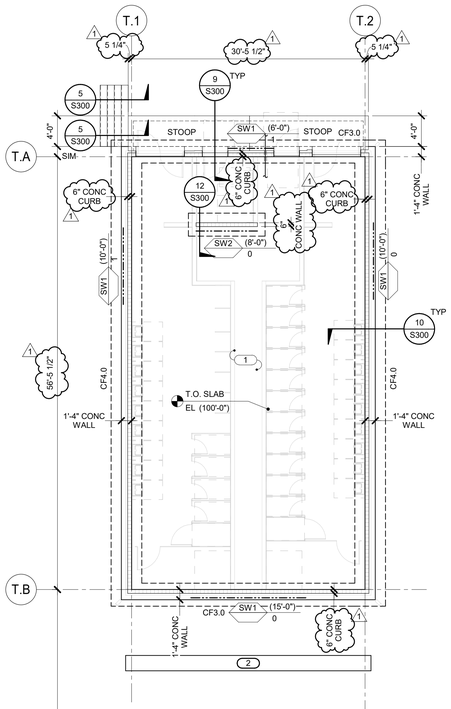
1. SHEATHING SHALL BE PLYWOOD ONLY.
2. SEE S400 FOR TYPICAL SHEAR WALL CONSTRUCTION DETAILS.
3. ALL PANEL EDGES ARE TO BE BLOCKED. EDGE BLOCKING TO BE PROVIDED BY THE COLD FORM SUPPLIER.
4. USE #10 SCREW IF STUDS ARE 16 GA OR THICKER.
5. WALL BOTTOM TRACK TO HAVE 1 1/4" LEG AND MATCH GAUGE OF STUDS.
6. ~~CONTROL JOINTS ON 10' ON CENTER. SEE SYMBOLS ON CFSHEAR WALL LOCATIONS.~~
7. SEE 2/S300 AND 10/S400 FOR HOLDOWN DETAILS.

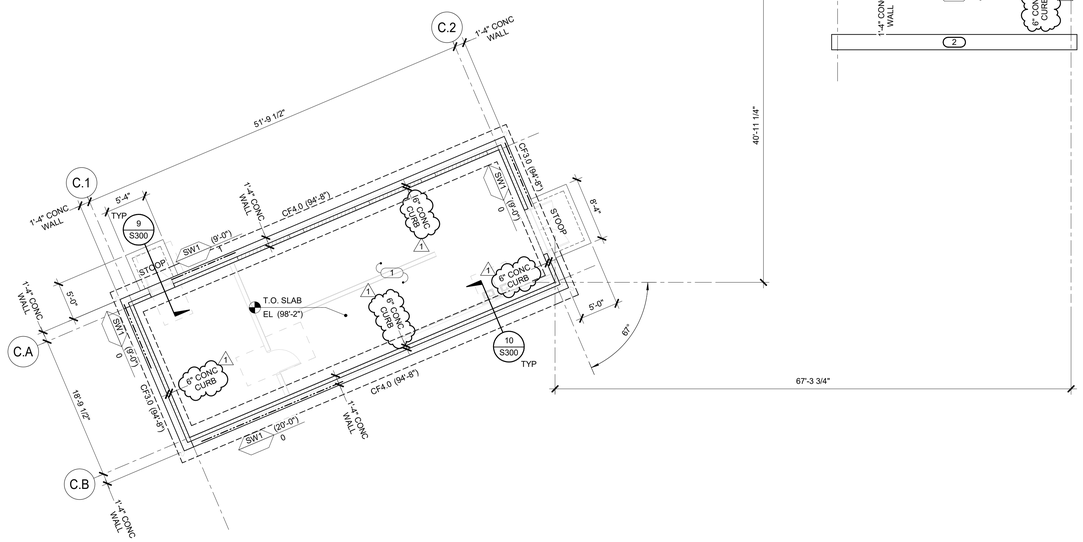
NOTES:

1. SEE S300 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
2. TOP OF EXTERIOR AND INTERIOR FOOTING EL (96'-6"), UON. SEE THIS SHEET FOR SCHEDULE.
3. TOP OF FOUNDATION WALL EL (100'-0"), UON.
4. ~~SEE THIS SHEET FOR CONDUCT~~
5. TOP OF CURB EL (101'-0"), UON.
6. ~~PROVIDE 2'-6" x 2'-6" CORNER BARS~~ FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS. SEE 7/S300.
7. PROVIDE THICKENED SLAB UNDER ALL NON-STRUCTURAL CFSF WALLS. SEE 11/S300 FOR DETAIL AND ARCHITECTURAL PLANS FOR EXTENT AND LOCATIONS.
8. FOR PIPING AND CONDUIT THROUGH FOUNDATIONS, SEE 4/S300.
9. SEE THIS SHEET FOR CFSF SHEAR WALL SCHEDULE AND S400 FOR TYPICAL DETAILS.
10. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
11. ALL COLD FORM STUDS TO BE 600S200-43 AT 12" ON CENTER. STUDS TO ALIGN WITH TRUSS BEARING LOCATIONS.
12. SEE 1/S300 FOR TYPICAL REBAR SPLICE LENGTHS.

KEYNOTES: #

1. 5" CONCRETE SLAB ON GRADE WITH 6x6 - W2.1xW2.1 WWR. SEE PLAN FOR TOP OF SLAB ELEVATION.
2. RETAINING WALL SEE CIVIL.



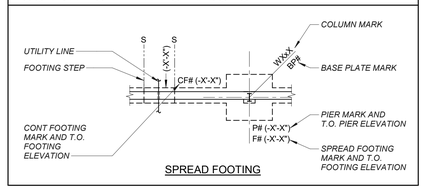


1 FOUNDATION PLAN

1/8" = 1'-0"

NORTH

FOUNDATION PLAN SYMBOLS KEY



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Moline, IL, 61265
P: 309.369.4581
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FOUNDATION PLANS

S100

BIDDING

COLD FORM HEADER SCHEDULE

MARK	SIZE	TRIMMER STUDS	KING STUDS	REMARKS
H1	(2) 600S200-43	600S200-43	600S200-43	-
H2	(2) 600S200-54	600S200-43	600S200-43	-

NOTES:

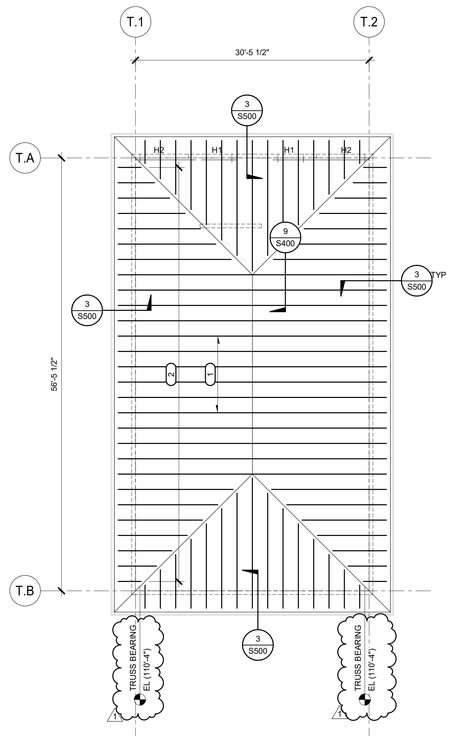
1. SEE 2/S400 FOR TYPICAL DETAIL.

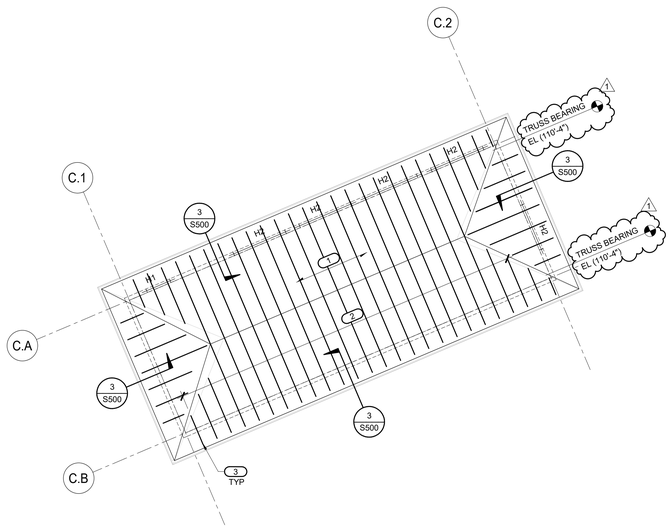
NOTES:

1. SEE PLAN FOR TRUSS BEARING ELEVATIONS AND ARCHITECTURAL DRAWINGS FOR TRUSS HEEL HEIGHT.
2. SEE ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
3. TRUSS MANUFACTURER TO COORDINATE ALL OPENINGS WITH MECHANICAL. PROVIDE FRAMING AS REQUIRED.
4. SEE 2/S500 FOR OPENINGS THROUGH ROOF SHEATHING. SEE MECHANICAL DRAWINGS FOR LOCATION AND DIMENSION.

KEYNOTES: #

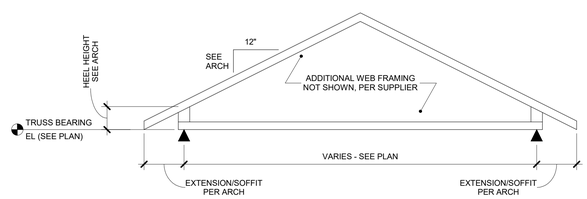
1. ROOF SHEATHING = 5/8" PLYWOOD (5-PLY) SHEATHING. SEE GENERAL NOTES FOR FASTENING AND STRENGTH REQUIREMENTS. FOR TYPICAL DETAIL, SEE 1/S600.
2. WOOD TRUSSES @ 2'-0" OC MAX. TRUSSES TO ALIGN WITH COLD FORM STEEL FRAMING STUDS. TRUSS LAYOUT ON PLAN IS SCHEMATIC AND REPRESENTATIVE. QUANTITIES MAY NOT BE ACCURATELY SHOWN FOR OUTLINE TRUSS SPACING. SUPPLIER SHALL BE RESPONSIBLE FOR TEMPORARY AND PERMANENT BRACING. SEE THIS SHEET FOR ROOF TRUSS DIAGRAM.





1 ROOF FRAMING PLAN

1/8" = 1'-0"



NOTES:

1. TRUSS SUPPLIER TO DESIGN FOR THE FOLLOWING LOADS:
   TOP CHORD DL = 10 PSF + OVERBUILD AND UNIT WEIGHTS SHOWN
   BOTTOM CHORD DL = 10 PSF
   TRUSS SELF WEIGHT
   BALANCED SL PER S000.

3 ROOF TRUSS PROFILE

NO SCALE

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ROOF FRAMING PLANS

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CLASS B TENSION LAP SPLICE LENGTH

REINF STEEL, Fy	BAR SIZE	BAR LOCATION	CONCRETE STRENGTH, f'c							
			3 KSI	4 KSI	5 KSI	6 KSI	7 KSI	8 KSI	9 KSI	10 KSI
60 KSI	#3	TOP	2'-4"	2'-1"	1'-10"	1'-8"	1'-7"	1'-6"	1'-5"	1'-4"
		OTHER	1'-10"	1'-7"	1'-5"	1'-4"	1'-2"	1'-2"	1'-1"	1'-0"
	#4	TOP	3'-2"	2'-9"	2'-5"	2'-3"	2'-1"	1'-11"	1'-10"	1'-9"
		OTHER	2'-5"	2'-1"	1'-11"	1'-9"	1'-7"	1'-6"	1'-5"	1'-4"
	#5	TOP	3'-11"	3'-5"	3'-0"	2'-9"	2'-7"	2'-5"	2'-3"	2'-2"
		OTHER	3'-0"	2'-7"	2'-4"	2'-2"	2'-0"	1'-10"	1'-9"	1'-8"
	#6	TOP	4'-8"	4'-1"	3'-8"	3'-4"	3'-1"	2'-11"	2'-9"	2'-7"
		OTHER	3'-7"	3'-1"	2'-10"	2'-7"	2'-4"	2'-3"	2'-1"	2'-0"

NOTES:

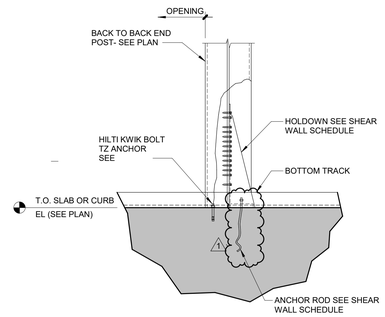
1. SPLICE LENGTHS SHOWN ARE APPLICABLE FOR SPLICES OCCURRING UNDER THE FOLLOWING CONDITIONS.
   A. NORMAL-WEIGHT CONCRETE
   B. MIN BAR SPACING REQUIREMENTS:
      a. CLEAR SPACING BETWEEN BARS AT SPLICE LOCATION > BAR DIAMETER, CLEAR COVER TO BARS ≥ BAR DIAMETER, AND TIES OR STIRRUPS OCCUR PER CODE SPACING WITHIN LENGTH OF SPLICE; OR
      b. CLEAR SPACING BETWEEN BARS AT SPLICE ≥ 2 x BAR DIAMETER AND CLEAR COVER > BAR DIAMETER
2. INDICATED SPLICE LENGTHS SHALL BE INCREASED BY THE LISTED FACTORS WHERE THE FOLLOWING CONDITIONS EXIST.

CONDITION	SPLICE LENGTH MULTIPLIER*
A. BAR SPACING OR CLEAR COVER IS LESS THAN REQUIRED PER NOTE 1	1.5
B. LIGHTWEIGHT CONCRETE	1.3
C. EPOXY COATED REINF WITH COVER < 3 x BAR DIAMETER OR CLEAR SPACING < 6 x BAR DIAMETER	1.5
D. ALL OTHER EPOXY COATED BARS	1.2

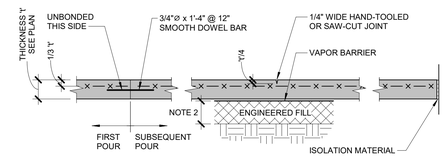
*WHERE MULTIPLE CONDITIONS EXIST, APPLY EACH OF THE APPLICABLE FACTORS TO THE TABULATED TENSION LAP SPLICE LENGTH TO OBTAIN THE REQUIRED SPLICE LENGTH.

3. TOP BARS ARE HORIZ BARS LOCATED WHERE MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BARS.
4. USE SMALLER BAR SIZE TO DETERMINE LENGTH WHERE SPLICING BARS OF DIFFERENT SIZES.

1 CLASS B TENSION LAP SPLICE LENGTHS
3/4" = 1'-0"



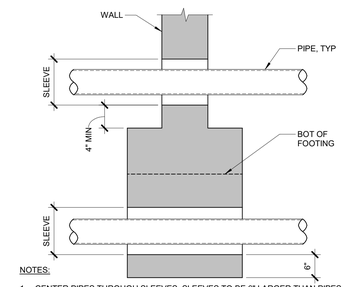
2 HOLDOWN ANCHORAGE DETAIL
1/2" = 1'-0"
S_CF-400



NOTES:

1. JOINTS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF FINISHING OPERATIONS.
2. VERIFY FILL REQUIREMENTS WITH GEOTECH ENGINEER.

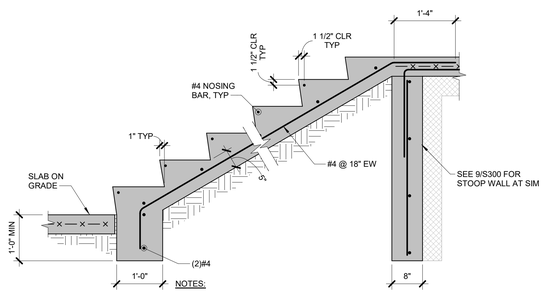
3 SLAB ON GRADE CONSTRUCTION
3/4" = 1'-0"



NOTES:

1. CENTER PIPES THROUGH SLEEVES. SLEEVES TO BE 6" LARGER THAN PIPES.
2. FOR PIPES 3"-0" OR LESS BELOW FOOTING, PROVIDE SLEEVE AND CONCRETE AS SHOWN. MORE THAN 3'-0", COMPACT BACKFILL OVER PIPE TO 90% AS APPROVED BY GEOTECHNICAL ENGINEER OR USE STEPPED FOOTING BELOW PIPE.

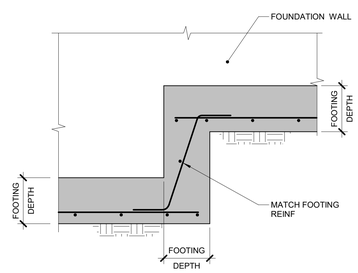
4 PIPE THROUGH WALL / FOOTING
3/4" = 1'-0"



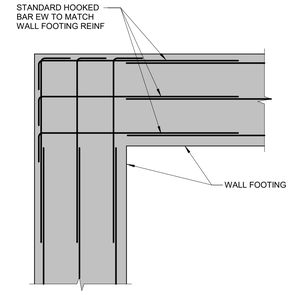
NOTES:

1. SEE ARCH DWGS FOR STAIR DIMENSIONS, RISE, RUN, HANDRAIL AND NOSING DETAILS

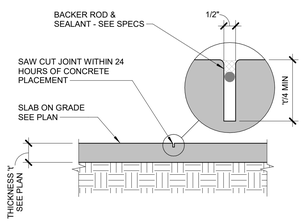
5 CONCRETE STAIR
3/4" = 1'-0"



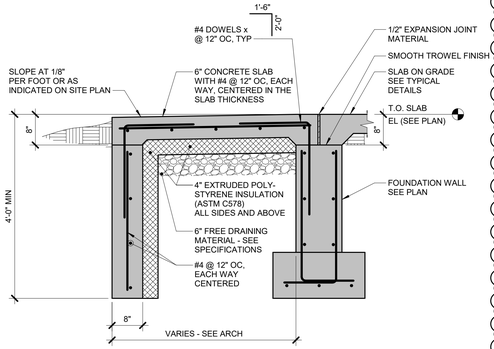
6 FOOTING STEP
3/4" = 1'-0"



7 FOOTING INTERSECTION
3/4" = 1'-0"



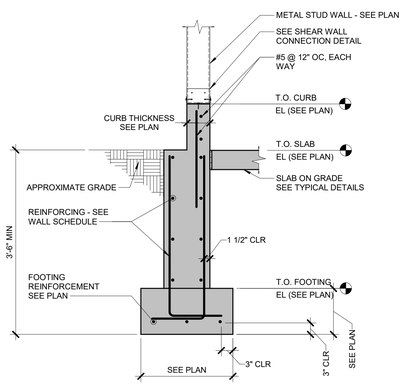
8 SAWCUT SEALANT JOINT
3/4" = 1'-0"



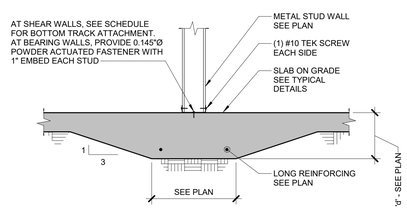
NOTE:

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT STOOP LAYOUT AND LOCATIONS.

9 TYPICAL STOOP DETAIL
3/4" = 1'-0"



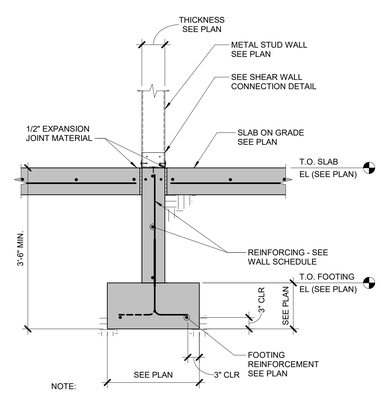
10 FOUNDATION AT COLD FORM WALL DETAIL
3/4" = 1'-0"



NOTES:

1. CENTER THICKENED SLAB ABOUT WALL. SEE ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS.
2. PROVIDE CORNER DOWELS PER TYPICAL DETAILS AT INTERSECTIONS OF THICKENED SLABS.

11 INTERIOR BEARING/SHEAR WALL AT THICKENED SLAB
3/4" = 1'-0"



NOTE:

1. FOR HEIGHTS EXCEEDING 4'-0", EACH SIDE OF THE WALL SHALL BE BACKFILLED AT THE SAME TIME.

12 CMU WALL ON FOUNDATION WALL
3/4" = 1'-0"

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623 26TH AVENUE
ROCK ISLAND, IL 61201
P: 309.788.0673 F: 309.788.5967
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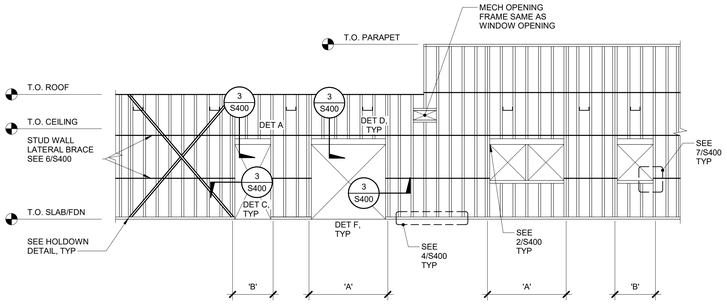
CONCRETE DETAILS

S300

BIDDING



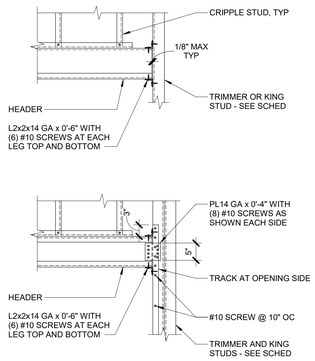
MAX WALL OPENING SIZE		
MARK	EXTERIOR	INTERIOR
'A'	9'-0"	8'-0"
'B'	4'-6"	4'-0"

NOTES:

1. FOR INTERIOR WALL CONDITIONS, SEE 8/S400.
2. ALL STUDS ARE 16" OC MAX. SEE STRUCTURAL GENERAL NOTES FOR TYPICAL STUD SIZE AND GAUGE.
3. ALL STUDS SHALL BE 'S' STUDS WITH STIFFENED 1 5/8" FLANGE.
4. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENINGS OR STRAP BRACING BE CUT FOR DUCTWORK OR OTHER MECH SYSTEMS.
5. ALL ELEMENTS OF HEADER ASSEMBLIES SHALL BE CONT OVER OPENING.
6. STUD SIZE SHOULD MATCH WALL SIZE. SEE ARCH.
7. NO STUD PUNCHOUT OR HOLES SHALL OCCUR WITHIN 10" ABOVE/BELOW HEADER/SILL OR INSIDE HEADER/SILL ZONE.
8. PUNCHOUT FOR WALL STUDS SHALL BE SPACED MIN 10" FROM EACH END OF THE STUD TO THE NEAREST EDGE OF PUNCHOUT.

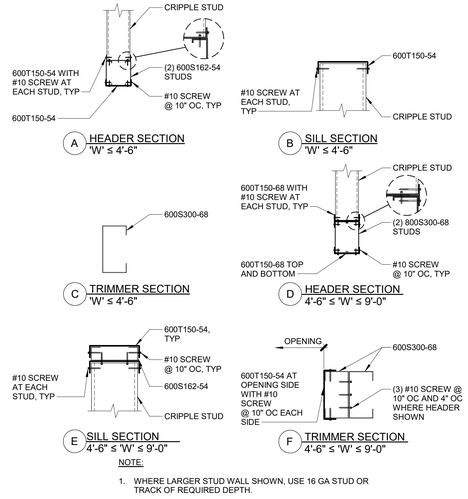
1 LOAD BEARING WALL ELEVATION

3/4" = 1'-0"
S_CF-001



2 EXTERIOR WALL HEADER CONNECTIONS

3/4" = 1'-0"
S_CF-004

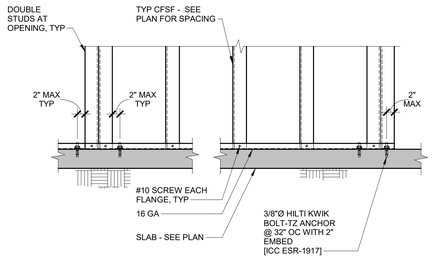


NOTE:

1. WHERE LARGER STUD WALL SHOWN, USE 16 GA STUD OR TRACK OF REQUIRED DEPTH.

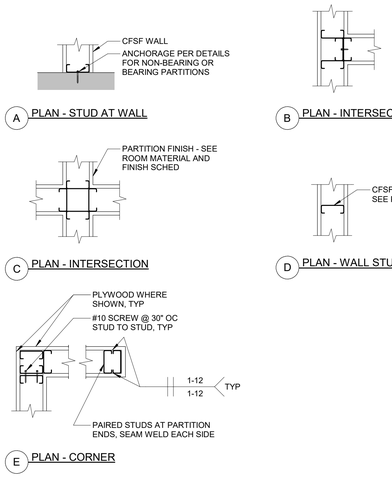
3 EXTERIOR WALL OPENING DETAILS

3/4" = 1'-0"
S_CF-002



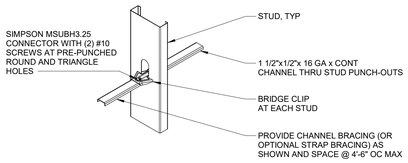
4 BEARING WALL TRACK ANCHORAGE ELEVATION

3/4" = 1'-0"
S_CF-007



5 STUD WALL CORNER AND INTERSECTION PLANS

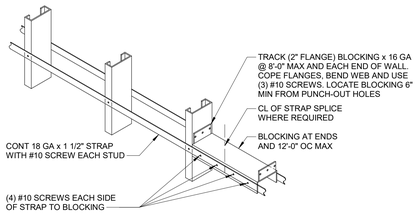
3/4" = 1'-0"
S_CF-011



BRIDGING CHANNEL SCREW-ATTACHED USING BRIDGE CLIP

NOTE:

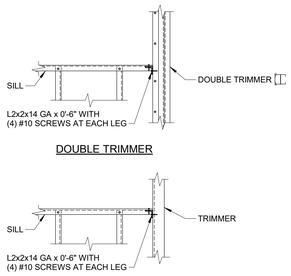
1. NOTCHING OR CUTTING OF COLD ROLLED CHANNEL OR STRAP IS NOT PERMITTED.



OPTIONAL METHOD FLAT STRAP BRACING

6 STUD WALL BRIDGING DETAILS

3/4" = 1'-0"
S_CF-306

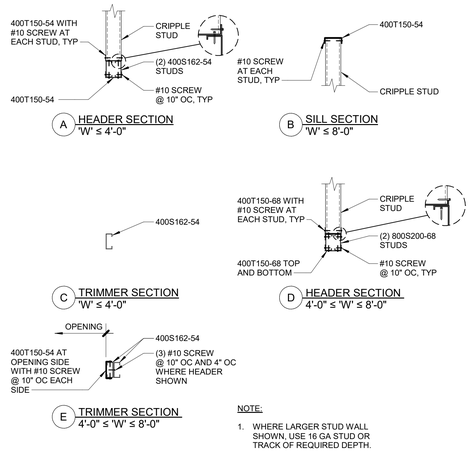


NOTES:

1. USE L2x2x14 GA x 0'-4" WITH (4) #10 SCREWS WHERE 4" STUD WALL OCCURS.
2. SEE AND FOR INFORMATION NOT SHOWN HERE.

7 LOAD BEARING WALL SILL CONNECTIONS

3/4" = 1'-0"
S_CF-006

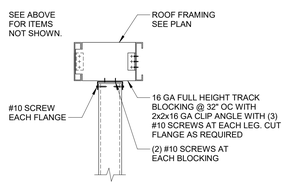


NOTE:

1. WHERE LARGER STUD WALL SHOWN, USE 16 GA STUD OR TRACK OF REQUIRED DEPTH.

8 INTERIOR WALL OPENING DETAILS

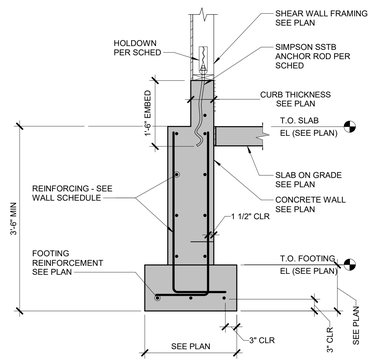
3/4" = 1'-0"
S_CF-003



PARTITION PARALLEL TO FRAMING

9 FULL HEIGHT NON-STRUCTURAL WALL BRACING DETAILS

3/4" = 1'-0"
S_CF-300



10 SHEAR WALL HOLDOWN AT FOUNDATION

3/4" = 1'-0"
6530-07

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15th Street
Moline, IL 61265

ARCHITECT
Legat Architects, Inc.
1515 5th Ave. Suite 108
Moline, IL, 61265
P: 309.369.4581
www.legat.com

CIVIL ENGINEER / LANDSCAPE ARCHITECT
Martin & Whitacre
1508 Bidwell Rd.
Muscatine, IA 52761
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Rock Island, IL 61201
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RTM Engineering Consultants
5137 Utica Ridge Rd.
Davenport, IA 52807
P: 563.726.6310
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SIGNATURE
DATE

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1	ADDENDUM #1	02/12/25

PROJECT NUMBER	224151.00
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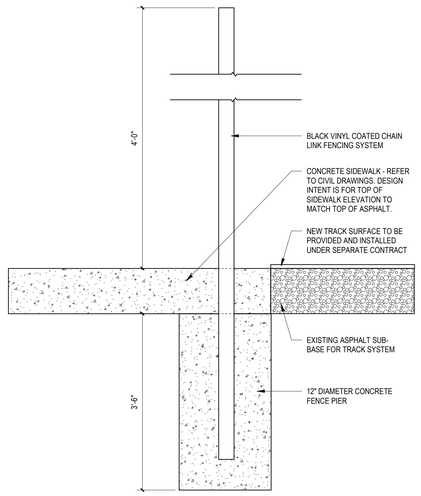
REVIEWED BY	-

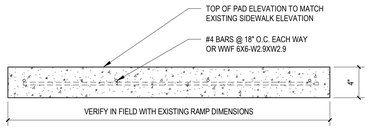
COLD FORM STEEL FRAMING DETAILS

S400

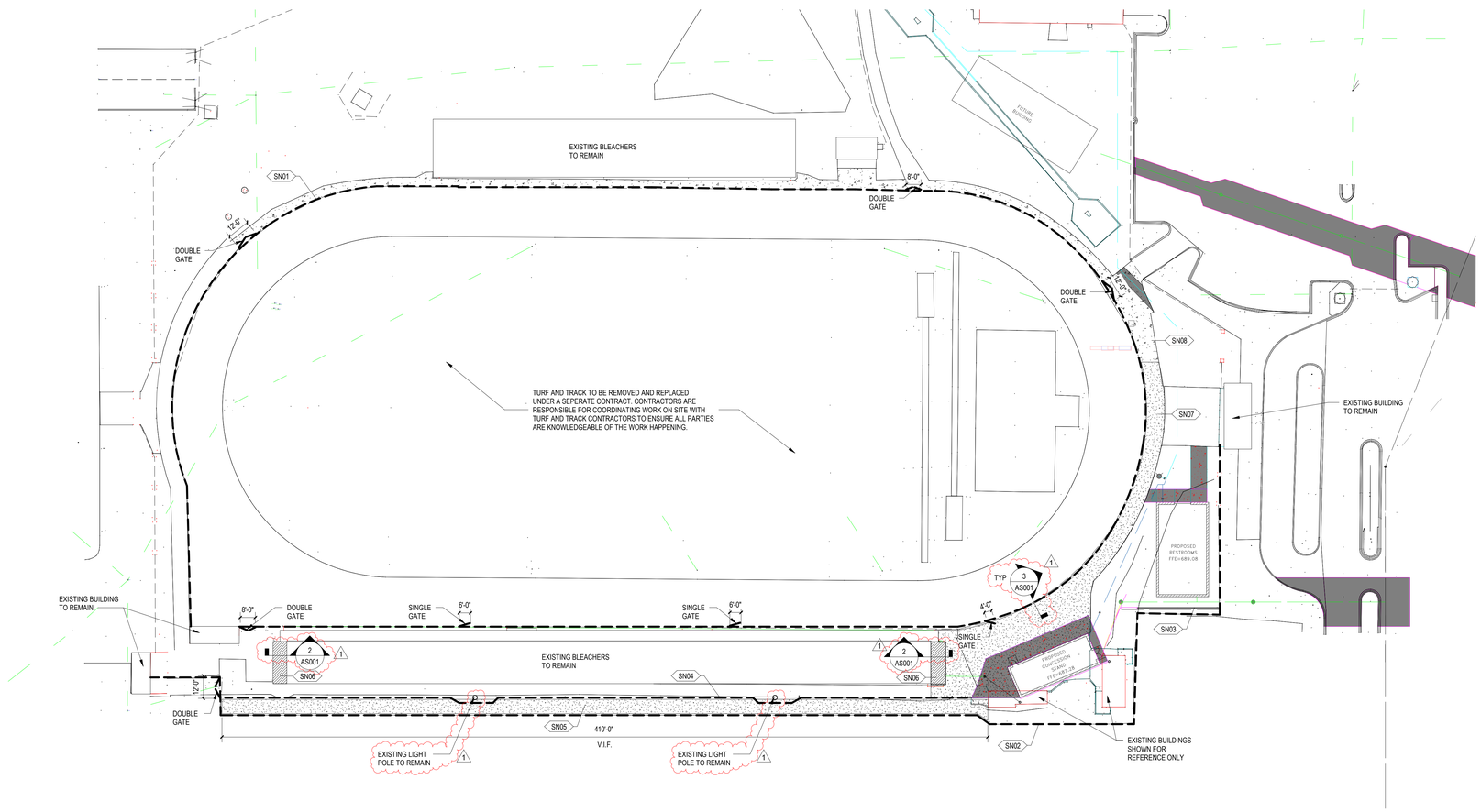
BIDDING



3 TYPICAL FENCING DETAIL AT TRACK
1 1/2" = 1'-0" AS001



2 NEW EXIT RAMP PAD DETAIL
1 1/2" = 1'-0" AS001



1 SITE PLAN
1" = 30'-0" A-201

SN##	SITE PLAN NOTES
NOTE	DESCRIPTION
SN01	ALTERNATE BID: PROVIDE AND INSTALL 4' HIGH BLACK VINYL COATED CHAIN LINK FENCE SYSTEM. MATCH EXISTING GATE LOCATIONS AND SIZES AS NOTED. COORDINATE EXACT LOCATION IN FIELD.
SN02	ALTERNATE BID: PROVIDE AND INSTALL 8' HIGH BLACK VINYL COATED CHAIN LINK FENCE SYSTEM. MATCH EXISTING GATE LOCATIONS AND SIZES AS NOTED. COORDINATE EXACT LOCATION IN FIELD.
SN03	PROPOSED RETAINING WALL. COORDINATE EXACT LOCATION IN FIELD WITH CIVIL AND STRUCTURAL DRAWINGS. REFER TO CIVIL DRAWINGS FOR RETAINING WALL DETAILS.
SN04	ALTERNATE BID: RETAINING WALL. RETAINING WALL TO BE INSTALLED ADJACENT TO EXISTING SIDEWALK AT 24" ABOVE EXISTING SIDEWALK ELEVATION. PROVIDE DECORATIVE CAP UNIT TO MATCH BLOCK UNIT. PROVIDE WALL DRAIN PRO (OR SIMILAR PRODUCT) DRAINAGE OUTLETS TO DRAIN TO DAYLIGHT SPACED 10' O.C. CONNECT TO 4" PERFORATED PVC DRAIN TILE. REFER TO CIVIL DRAWINGS FOR RETAINING WALL DETAILS.
SN05	ALTERNATE BID: PROPOSED SEED, FERTILIZE AND MAT (TYP).
SN06	REINSTALL EXISTING BLEACHER RAMP ASSEMBLY AND LANDINGS ON NEW FOUNDATION SUPPORT SYSTEM. FOUNDATION SUPPORT SYSTEM TO BE DESIGNED AND PROVIDED BY A BLEACHER MANUFACTURER/INSTALLER.
SN07	PROPOSED 5" PCC SIDEWALK. REFER TO CIVIL DRAWINGS.
SN08	ALTERNATE BID: PROVIDE & INSTALL 5" PCC SIDEWALK. ALL PROPOSED ELEVATIONS ARE INTENDED TO MATCH EXISTING ELEVATIONS. REFER TO CIVIL DRAWINGS.

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MOLINE-COAL VALLEY SCHOOL DISTRICT #40

BROWNING FIELD CONCESSIONS AND TOILET ROOM IMPROVEMENTS

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Moline, IL 61265

ARCHITECT
Legat Architects, Inc.
1515 5th Ave. Suite 108
Moline, IL, 61265
P: 309.369.4581
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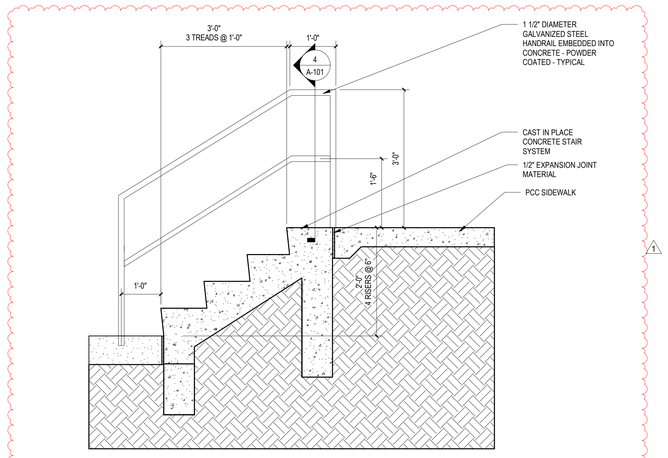
DRAWN BY	BE
REVIEWED BY	ZC

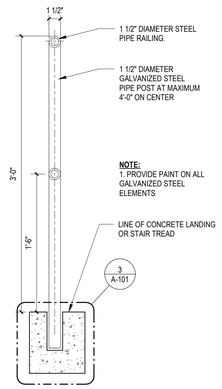
ARCHITECTURAL SITE PLAN

AS001

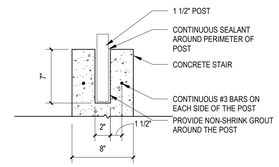
BIDDING



5 STAIR SECTION
3/4" = 1'-0" A-101



4 TYPICAL STAIR RAILING SECTION
1 1/2" = 1'-0" A-101



3 POST DETAIL
1 1/2" = 1'-0" A-101

ABBREVIATIONS LEGEND

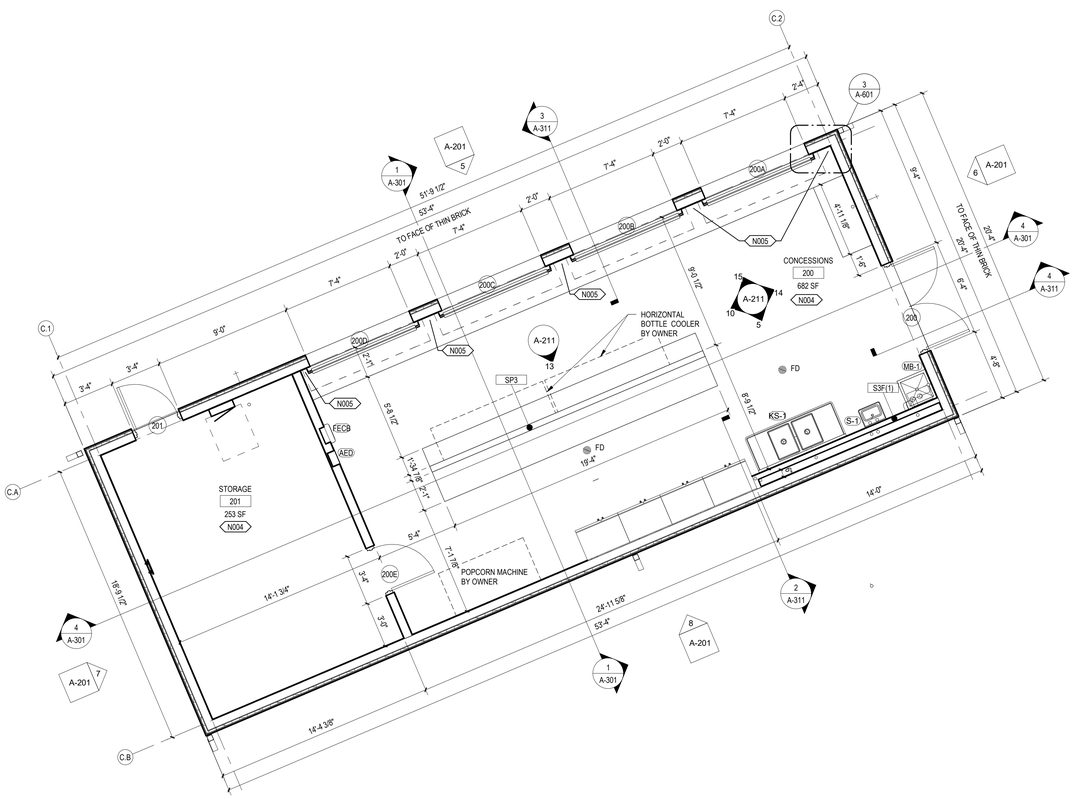
CHT	SEMI-RECESSED CHANGING TABLE
EDF-1	HIGH-LOW BOTTLE FILLER STATION
FD	FLOOR DRAIN
GB1	36" STAINLESS STSEEL GRAB BAR
GB2	42" STAINLESS STEEL GRAB BAR
GB3	18" STAINLESS STEEL GRAB BAR
HD	HAND DRYER
L-1	LAVATORY - ADA
L-2	LAVATORY
M1	20" X 30" MIRROR
MB-1	24" X 24" MOP BASIN
S-1	KITCHEN HAND SINK
KS-1	TWO (2) COMPARTMENT KITCHEN UTILITY SINK
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
U-1	URINAL - ADA
U-2	URINAL
WC-1	WATER CLOSET
WC-2	WATER CLOSET - ADA

FLOOR PLAN LEGEND

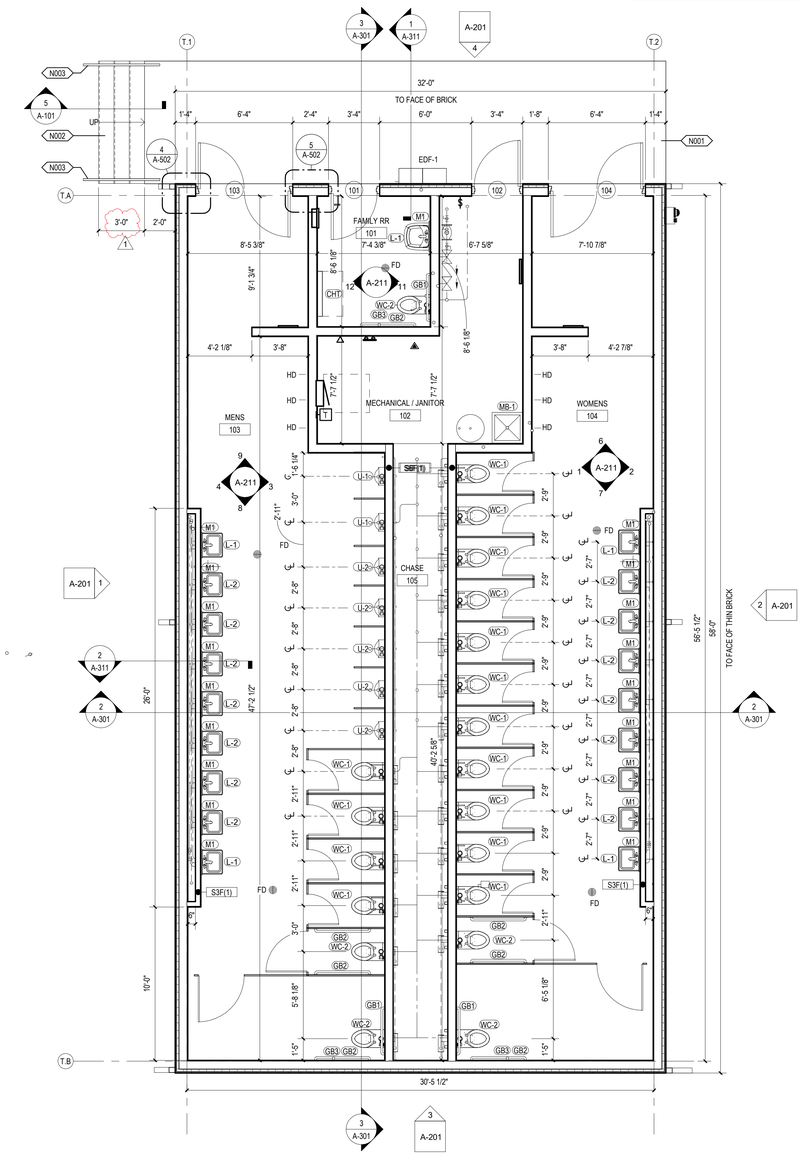
1 A101 SIM	DETAIL SECTION TAG
A101 1 Ref	INTERIOR ELEVATION TAG
1 A101 SIM	BUILDING & WALL SECTION TAG
A101 1 Ref	EXTERIOR ELEVATION TAG
S3FA	WALL TYPE - REFER TO A-611 FOR WALL TYPES
0	COLUMN TAG AND COLUMN CENTERLINE
101	DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE
A101 1 Ref	STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION
ROOM NAME	ROOM NAME
101	ROOM NUMBER
N###	NEW WORK NOTE
FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET

N### ARCHITECTURAL PLAN NOTES

NOTE	DESCRIPTION
N001	PCC SIDEWALK AND STOOP - REFER TO CIVIL AND STRUCTURAL DRAWINGS.
N002	CAST IN PLACE CONCRETE STAIR SYSTEM.
N003	1-1/2" DIAMETER GALVANIZED STEEL HANDRAIL - POWDER COATED - TYPICAL.
N004	PROVIDE 3/4" PLYWOOD ON ALL INTERIOR FACE OF WALLS IN LIEU OF GYPSUM BOARD.
N005	PROVIDE 2" GROMMET IN COUNTERTOP ASSOCIATED WITH TECHNOLOGY OUTLETS BELOW COUNTER.



2 ENLARGED CONCESSION STAND PLAN
1/4" = 1'-0"



1 ENLARGED TOILET ROOM PLAN
1/4" = 1'-0"

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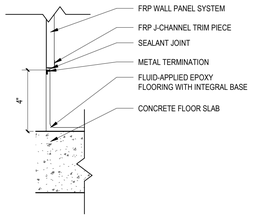
DRAWN BY	VP
REVIEWED BY	ZC

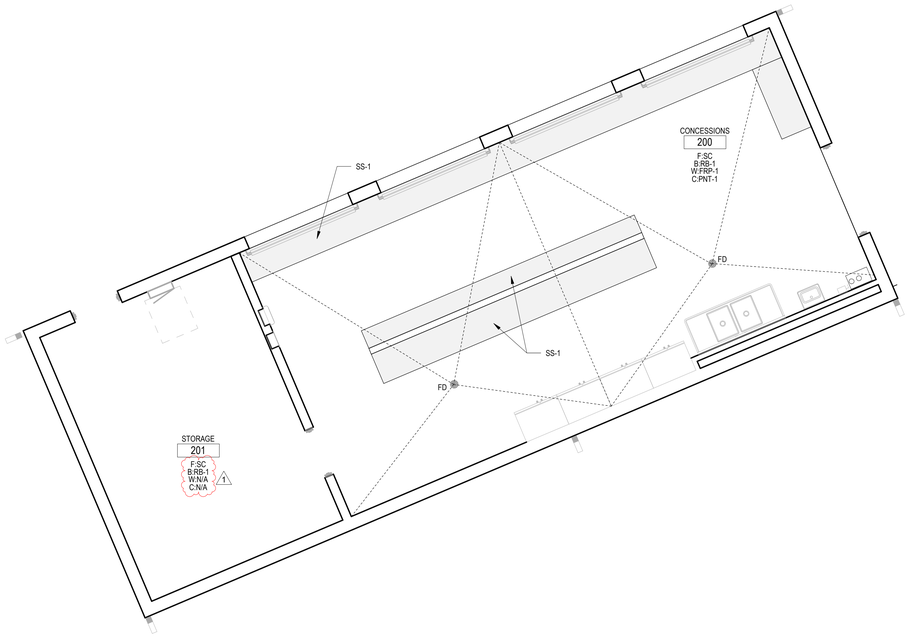
FIRST FLOOR PLAN

A-101

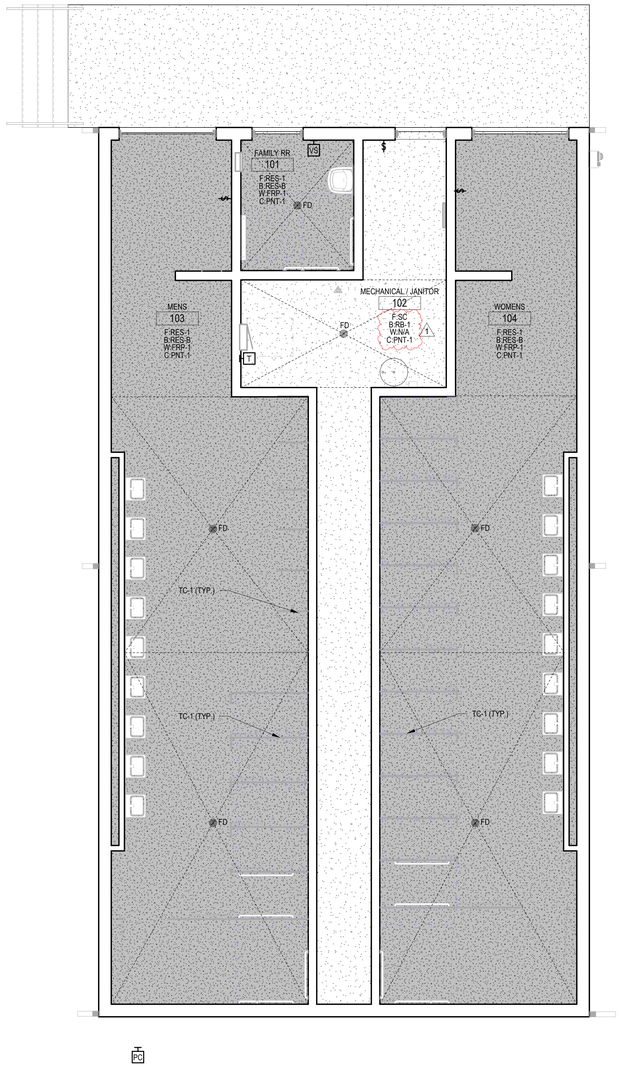
BIDDING



3 INTEGRAL RESINOUS BASE DETAIL
3" = 1'-0"



2 CONCESSION STAND - FLOOR FINISH PLAN
1/4" = 1'-0"



1 TOILET ROOM - FLOOR FINISH PLAN
1/4" = 1'-0"

FINISH LEGEND & SCHEDULE

FRP	FIBERGLASS REINFORCED PANEL	MANUF: MARLITE STYLE: EMBOSSED COLOR: WHITE
MT-1	METAL TRANSITION	MANUF: SCHLUTER FINISH: ALUMINIUM
RB-1	RUBBER BASE	MANUF: TARKETT STYLE: COVE COLOR: CHARCOAL SIZE: 4" HIGH
RES-1	RESINOUS FLOORING	MANUF: SHERWIN WILLIAMS STYLE: DECO FLAKE 1/8" COLOR: TBD
RES-B	RESINOUS INTEGRAL BASE	MANUF: SHERWIN WILLIAMS STYLE: DECO FLAKE 1/8" COLOR: TBD - MATCH FLOOR SIZE: 4" HIGH
SC	SEALED CONCRETE	MANUF: H&C CLARISHIELD WATER-BASED WET LOOK CONCRETE SEALER
SS-1	STAINLESS STEEL COUNTERTOP	18 GA.304 STAINLESS STEEL COUNTERTOP OVER PLYWOOD SUBSTRATE WITH 5" BACKSPLASH.
TC-1	TOILET COMPARTMENTS	MANUF: ASI GLOBAL PARTITIONS MATERIAL: SOLID PLASTIC (HDPE) COLOR: TBD STYLE: ULTIMATE PRIVACY - NO SIGHT- 55

PAINT LEGEND & SCHEDULE

PNT-1	FIELD PAINT	MANUF: SHERWIN WILLIAMS COLOR: ALABASTER - SW 7008 SHEEN: SEMI-GLOSS
PNT-2	DOORS AND FRAMES	MANUF: SHERWIN WILLIAMS COLOR: GRIZZLE GREY - SW 7068 SHEEN: REFER TO LOCATION

GENERAL FINISH NOTES

1. REFER TO THE FINISH PLAN LEGEND FOR MATERIAL AND COLOR INFORMATION. ALSO REFER TO THE PROJECT MANUAL.
2. REFER TO REFLECTED CEILING PLANS FOR CEILING MATERIALS AND CEILING HEIGHTS.
3. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROPERLY PREPARE ALL SURFACES IDENTIFIED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE FINISH MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE 48" HIGH METAL CORNER GUARDS AT ALL OUTSIDE CORNERS OF NEW GYPSUM BOARD PARTITIONS UNLESS NOTED OTHERWISE.
5. REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.
6. REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR INFORMATION.
7. NUMBERS/LETTERS REFER TO COLOR. REFER TO FINISH LEGEND AND/OR SPECIFICATIONS.
8. IN ALL RENOVATED AREAS ALL WALLS SHALL BE PAINTED PNT-1 U.N.O. ALL NEW WALLS SHALL BE PAINTED PNT-1 UNLESS NOTED OTHERWISE.
9. BRICK WALLS SHALL NOT BE PAINTED. U.N.O.
10. REFER TO INTERIOR ELEVATIONS AND/OR FINISH PLANS FOR PORCELAIN TILE WALL PATTERN INFORMATION.
11. REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR APPLIED PANEL PATTERN INFORMATION
12. ALL HOLLOW METAL DOOR FRAMES AND HOLLOW METAL WINDOW FRAMES TO BE PAINTED PNT-2 U.N.O. IN FINISH DRAWINGS
13. ALL ACCESS DOORS TO BE PAINTED. COLOR TO MATCH ADJACENT SURFACE.
14. ELECTRICAL PANELS, MECHANICAL GRILLES, LOUVERS, AND ANY OTHER MISCELLANEOUS, UNFINISHED ITEMS INSTALLED IN WALL SURFACES OF CORRIDORS AND OCCUPIED SPACES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.
15. ALL SEALED CONCRETE FLOORS SHALL HAVE RUBBER BASE (U.N.O.).
16. REFER TO SPECIFICATIONS FOR RESILIENT TRANSITIONS (RT) PROFILES.
17. ALL REDUCERS TO BE COORDINATED APPROPRIATELY WITH ABUTTING MATERIAL HEIGHTS.
18. AT BUILDING CONSTRUCTION JOINTS DO NOT BRIDGE THE FLOORING MATERIALS. INSTALL MATCHING MATERIAL WITHIN.
19. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES TO FLOOR DRAINS. COORDINATE ACCORDINGLY WITH INTENDED FLOOR MATERIAL.
20. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.
21. WHERE "PATCH AND REPAIR" IS REQUIRED DUE TO NEW CONSTRUCTION IN EXISTING AREAS WHERE NO WORK IS SCHEDULED TO BE PERFORMED "PATCH AND REPAIR" FINISHES TO MATCH ADJACENT EXISTING FINISH, COLOR, TEXTURE AND SHEEN.
22. ANY DAMAGE TO EXISTING SURFACES DUE TO SCHEDULED DEMOLITION AND/OR TO ACCOMMODATE DIVISION 22, 23, 26, 27 & 28 SCOPE OF WORK INCLUDED IN THIS PACKAGE SHALL BE REPAIRED. THOUGH NOT EXPRESSLY NOTED "PATCH AND REPAIR", IT IS INTENDED THAT THE WORK BE PERFORMED.
23. "PATCH AND REPAIR" WALLS AS REQUIRED WHERE EXISTING JUNCTION BOXES AND/OR OUTLETS ARE REMOVED. PREPARE WALLS FOR NEW PAINT FINISH.
24. FLOOR SLOPE TOWARDS FLOOR DRAINS TO BE 1/8" PER 12". 1

GENERAL FLOOR FINISH NOTES

1. AT ALL AREAS OF NEW FLOORING:
   A. PROVIDE RUBBER TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS.
   B. PROVIDE 4-INCH RUBBER BASE ON ALL VERTICAL SURFACES ABUTTING FLOORING MATERIALS.
   C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY WORK.
   D. PREPARE CRACKS AND OTHER SURFACE DEFECTS IN CONCRETE SUBSTRATE IN ACCORDANCE WITH FLOORING MANUFACTURER'S RECOMMENDATIONS PRIOR TO BEGINNING ANY WORK.

GENERAL PAINTING NOTES

1. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE PROJECT MANUAL.
   A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION (U.N.O.).
   B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED PAINTED.
   C. SIGHT-EXPOSED SURFACES OF SOFFITS SHALL BE PRIME AND FINISHED PAINTED.
2. ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:
   A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS.
   B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT.
   C. AT REPAIRS AND UNPAINTED GYPSUM BOARD AND/OR PLASTER PROVIDE PRIMER AND TWO FINISH COATS OF PAINT.
   D. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
3. IN OCCUPIED SPACES IN AREAS OF NEW CONSTRUCTION, ALL SIGHT-EXPOSED MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DATA CABLING SHALL NOT BE PAINTED.
4. AT AREAS OF EXPOSED ROOF STRUCTURE IDENTIFIED TO BE PAINTED, ALL SIGHT-EXPOSED ITEMS SHALL BE PAINTED INCLUDING, BUT NOT LIMITED TO, ROOF DECK, STRUCTURE, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC.
5. ALL WALLS TO BE FINISH PAINTED PNT-1 WITH EGGSHELL FINISH (U.N.O.).
6. AT STEEL DOORS AND STEEL FRAMES:
   A. INTERIORS TO BE PAINTED PNT-1 WITH SEMI-GLOSS FINISH (U.N.O.).
   B. ALL EXTERIOR TO BE PAINTED WITH COLOR TO BE SELECTED BY ARCHITECT WITH SEMI-GLOSS FINISH (U.N.O.).

GENERAL CEILING FINISH NOTES

1. REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS FOR CEILING AND SOFFIT COLOR INFORMATION.
2. ALL GYPSUM BOARD / PLASTER CEILINGS AND SOFFITS TO BE PAINTED PNT-1 (**IPS-LS**.) (U.N.O.) ON CEILING AND/OR FINISH PLANS.
3. GYPSUM BOARD CEILINGS IN SHOWER AREAS AND ENTRY VESTIBULES TO BE PAINTED PNT-1 (IPS-B).
4. IN ALL MAIN CUSTODIAL AREAS AND MECHANICAL ROOMS, STEEL, DECKING AND EXPOSED STRUCTURE AND DUCTWORK WITH ASSOCIATE SUPPORTS NOT TO BE PAINTED (U.N.O.) IN FINISH PLANS

INTERIOR PAINT SYSTEM

IPS-LF	LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, FLAT
IPS-LE	LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, EGGSHELL
IPS-LS	LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, SEMI-GLOSS
IPS-LF-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, FLAT
IPS-LE-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, EGGSHELL
IPS-LS-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, SEMI-GLOSS
IPS-D	DRY FALL, WATER-BASED, FLAT
IPS-AF	ALKYD, WATER-BASED, FLAT
IPS-AE	ALKYD, WATER-BASED, EGGSHELL
IPS-AS	ALKYD, WATER-BASED, SEMIGLOSS
IPS-AG	ALKYD, WATER-BASED, GLOSS
IPS-ES	EPOXY-MODIFIED LATEX, INTERIOR, SEMI-GLOSS
IPS-MIC	MULTICOLOR INTERIOR PAINT

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REVIEWED BY	ZC

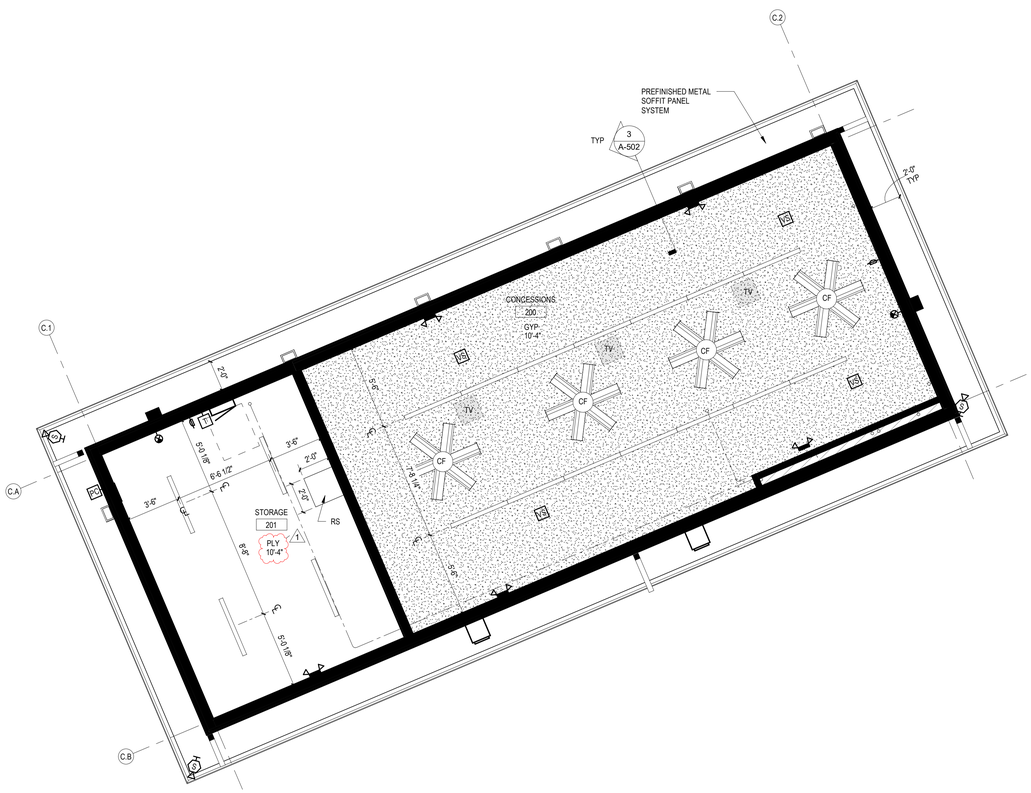
FIRST FLOOR FINISH PLAN

AF101

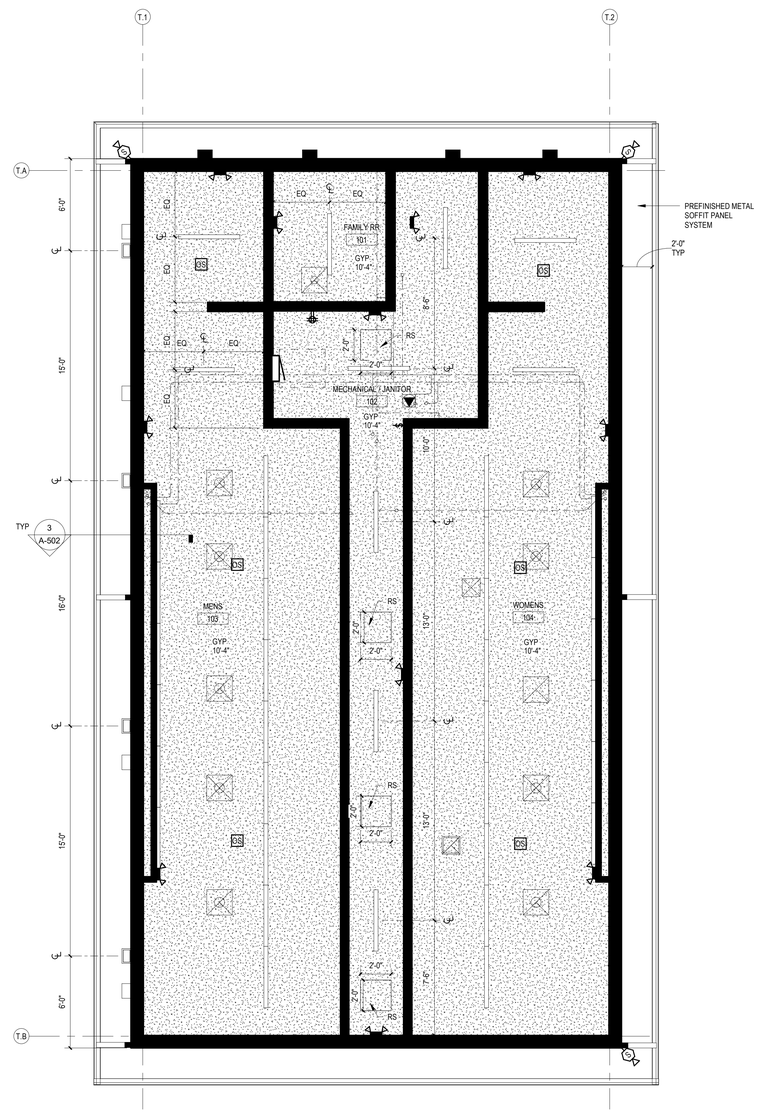
BIDDING

REFLECTED CEILING PLAN LEGEND

	FINISHED CEILING ELEVATION
	GYPSUM BOARD CEILING OR SOFFIT
	PLYWOOD CEILING OR SOFFIT (1)
RS	ROOF SKUTTLE - FRAME 24"x24" OPENING BETWEEN ROOF TRUSSES TO PROVIDE CEILING ACCESS WITH REMOVABLE DRYWALL CAP
	SURFACE MOUNTED 4" LINEAR FIXTURE
	RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
	SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
RS	ROOF SKUTTLE - FRAME 24" X 24" BETWEEN ROOF TRUSSES TO PROVIDE ROOF ACCESS WITH REMOVABLE DRYWALL CAP.
TV	CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD BACKING AT CEILING BETWEEN ROOF TRUSSES FOR FUTURE TV PROVIDED AND INSTALLED BY OWNER. COORDINATE EXACT LOCATION IN FEILD WITH OWNER AND ARCHITECT PRIOR TO INSTALL.
CF	CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD BACKING AT CEILING BETWEEN ROOF TRUSSES FOR CEILING FAN. COORDINATE EXACT LOCATION IN FEILD WITH ELECTRICIAN, OWNER, AND ARCHITECT PRIOR TO INSTALL.



2 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"
A-201



1 01 FIRST FLOOR RCP- TOILETS
1/4" = 1'-0"

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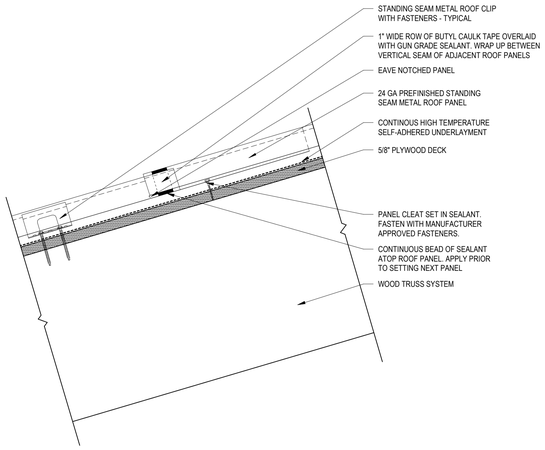
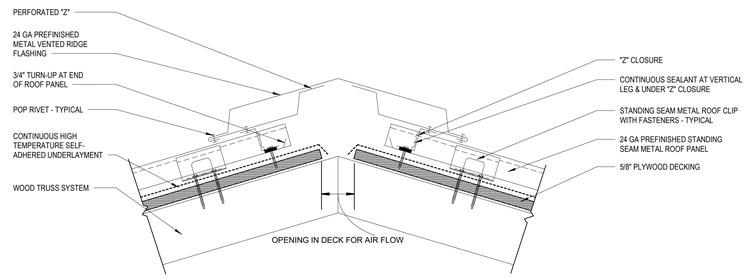
FIRST FLOOR REFLECTED CEILING PLAN

AC101

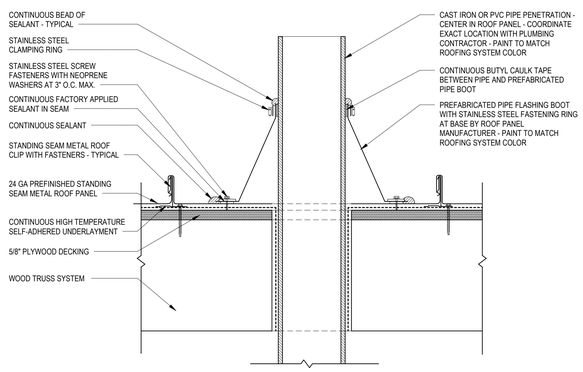
BIDDING



5 ROOF DETAIL
3" = 1'-0"

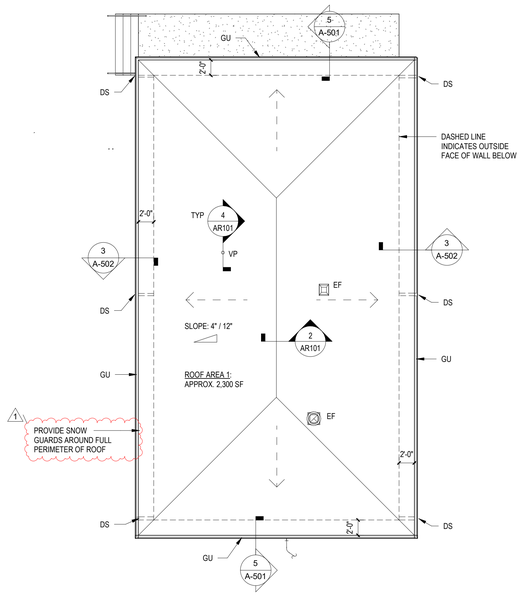


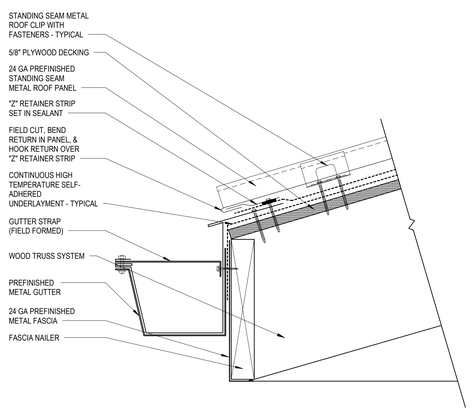
2 ROOF DETAIL
3" = 1'-0"
AR101



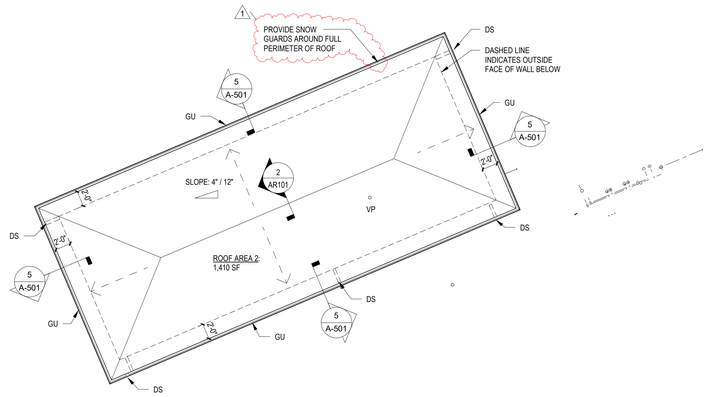
NOTE:
1. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
2. PLUMBING VENT OR PIPE PENETRATION IS TO BE CENTERED BETWEEN STANDING SEAMS.
3. PLUMBING VENT OR PIPE PENETRATION IS TO BE A MINIMUM OF Z'-0" FROM ANY ROOF PANEL LAPS OR ROOF CURBS.
4. PIPE TO EXTEND A MINIMUM OF 8" ABOVE ROOF SURFACE.
5. PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
6. APPLY LAP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.

4 RD - METAL ROOF - VENT PIPE PENETRATION DETAIL - WOOD DECK
3" = 1'-0"
AR101





3 RD - METAL ROOF - GUTTER DETAIL
3" = 1'-0"
A-501



1 ROOF PLAN
1/8" = 1'-0"

GENERAL ROOF NOTES

1. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE.
2. ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
3. ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED W/ SEALANT FOLLOWING ARCHITECT'S APPROVAL.
4. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.
5. ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.

ROOF PLAN FLASHING NOTES

1. ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
2. ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
3. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
4. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
5. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 (*PAINT*) SCREW.
6. EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 PAINT SCREW.
7. NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS.
8. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TEKS 1 WITH NEOPRENE WASHERS.
10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
11. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT UNLESS NOTED OTHERWISE.

ROOF CONSTRUCTION NOTES

ROOF AREA: 1 AND 2 (3,710 SF)
PREFINISHED METAL ROOF SYSTEM ON STRUCTURALLY SLOPED WOOD TRUSSES.

1. INSTALL WOOD FRAMING AND BAFFLE RAFTER VENT.
2. INSTALL WOOD SHEATHING.
3. INSTALL ICE AND WATER SHIELD FOR ENTIRE ROOF.
4. INSTALL PREFINISHED STANDING SEAM METAL ROOF SYSTEM.
5. INSTALL PREFINISHED FASCIA, DOWNSPOUTS, AND GUTTER SYSTEMS.

ROOF PLAN LEGEND

— — >	AREA OF SLOPED STRUCTURE
○ VP	VENT PIPE ROOF PENETRATION
DS	DOWNSPOUT
EF	EXHAUST FAN
GU	GUTTER SYSTEM

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ROOF PLAN

AR101

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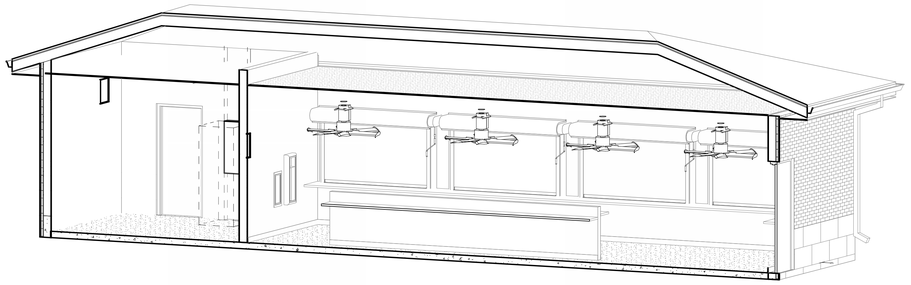
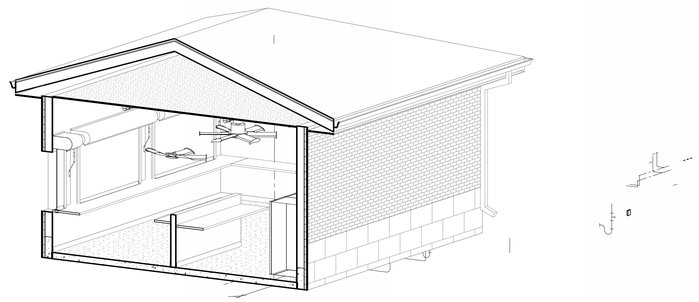
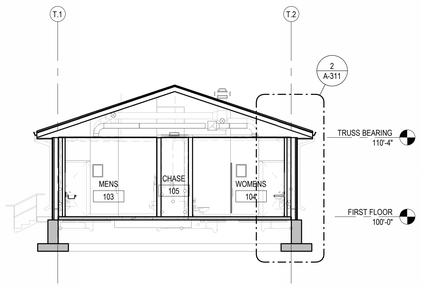


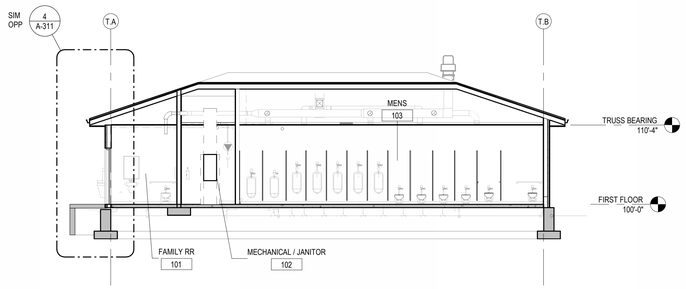
7 BUILDING SECTION AXONOMETRIC



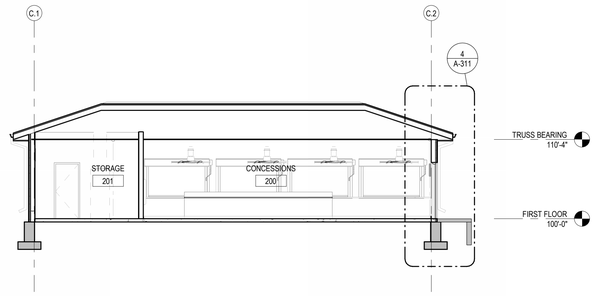
8 BUILDING SECTION AXONOMETRIC



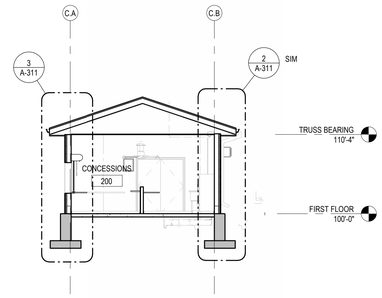
2 BUILDING SECTION - TOILET NORTH
1/8" = 1'-0" A-101



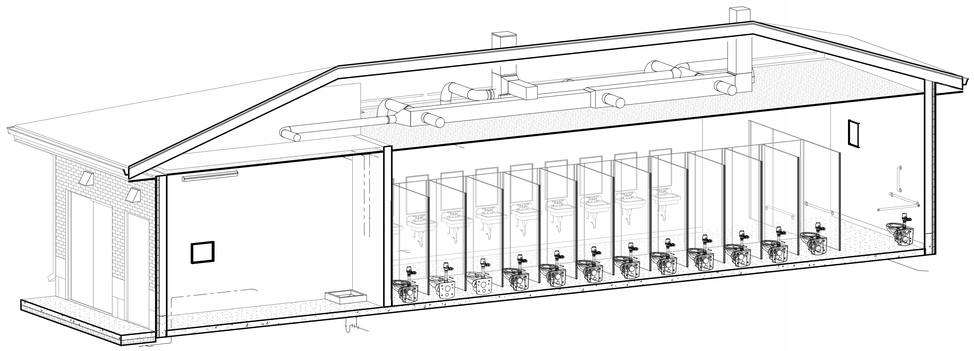
3 BUILDING SECTION - TOILETS EAST
1/8" = 1'-0" A-101



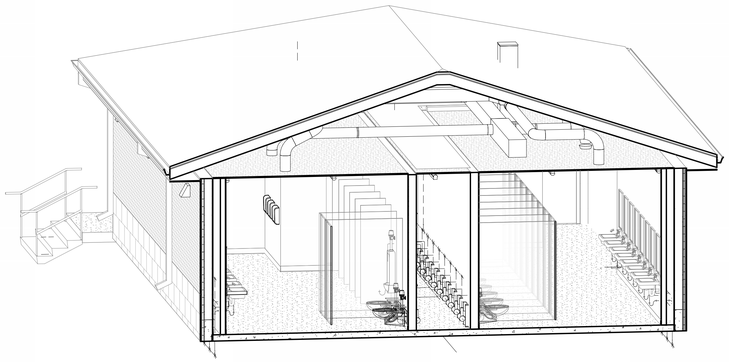
4 BUILDING SECTION - CONCESSIONS NORTH
1/8" = 1'-0" A-101



1 BUILDING SECTION - CONCESSIONS EAST
1/8" = 1'-0" A-101



5 BUILDING SECTION AXONOMETRIC



6 BUILDING SECTION AXONOMETRIC

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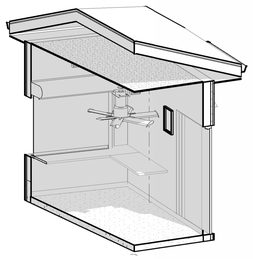
BUILDING SECTIONS

A-301

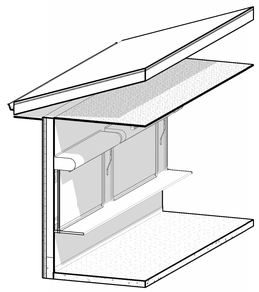
BIDDING

GENERAL NOTES:

ELEVATION 100'-0" IS USED IN THE ARCHITECTURAL DRAWINGS TO DENOTE FINISH FLOOR LEVEL. REFER TO CIVIL DRAWINGS FOR EXACT ELEVATIONS.



8 AXONOMETRIC



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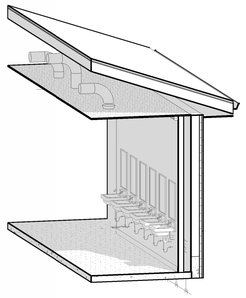

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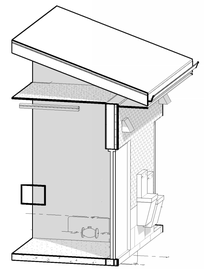

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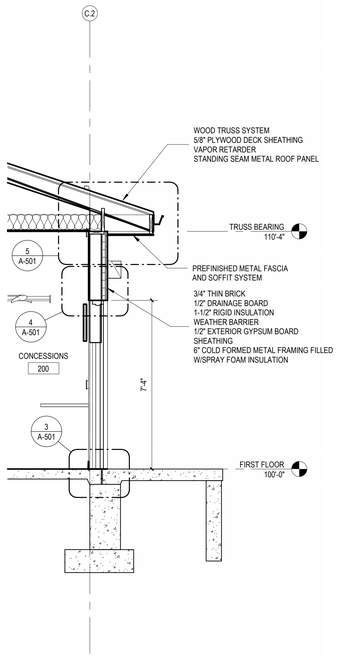
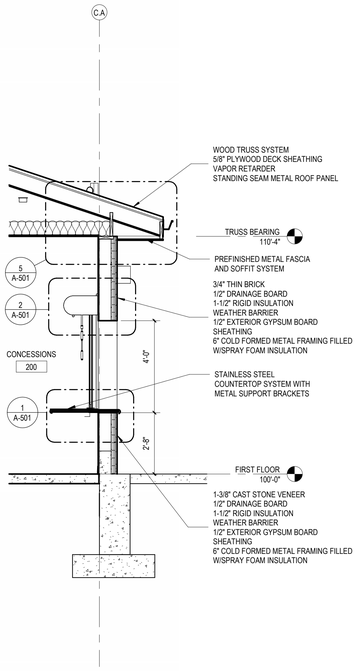
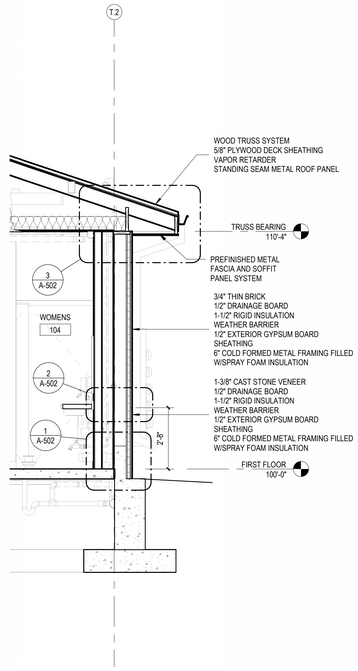


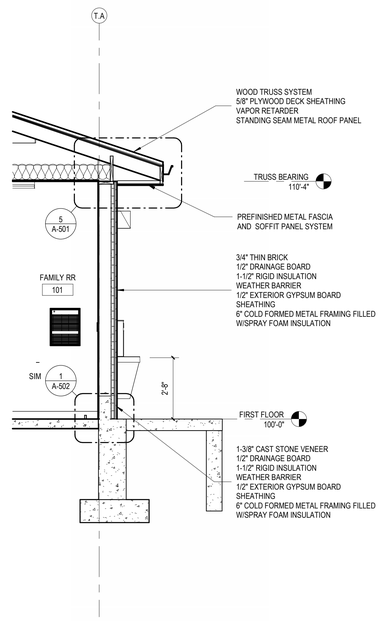
4 WALL SECTION
3/8" = 1'-0"
A-101



3 WALL SECTION
3/8" = 1'-0"
A-101



2 WALL SECTION
3/8" = 1'-0"
A-101



1 WALL SECTION
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A-101

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WALL SECTIONS

A-311

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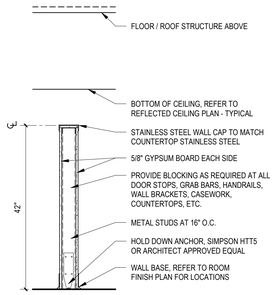

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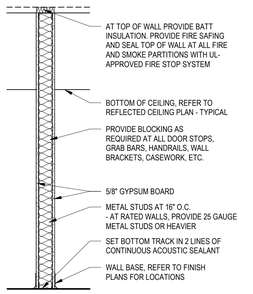
STC: N/A



UL: U419 (1HR OR 2HR) OR ARCHITECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: S3F: 40, S3FA: 49, S3F(3): _, S3FA(3):_, S3F(4): 48, S3FA(4): 56

STUD PARTITION
DENOTES FRAMING DEPTH

SP #

FRAMING DEPTH "#"
S 3 3 5/8" STUD DEPTH
S 6 6" STUD DEPTH

LETTER MODIFIERS "X"
N/A

LAYER MODIFIERS "(#)"
N/A

NOTES
1. REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR PARTITION HEIGHT.
2. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS.

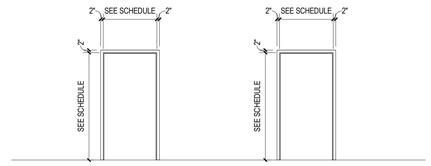
STUD PARTITION
DENOTES FRAMING DEPTH
LETTER MODIFIER(S) (REFER TO BELOW)
LAYER MODIFIER(S)
INDICATES LAYERS OF GYPSUM BOARD

S # X (#)

FRAMING DEPTH "#"
S 1 1 5/8" STUD DEPTH
S 2 2 1/2" STUD DEPTH
S 3 3 5/8" STUD DEPTH
S 6 6" STUD DEPTH

DOOR AND FRAME SCHEDULE

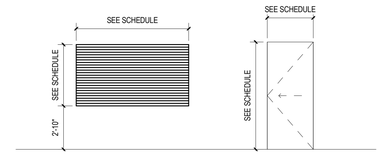
DOOR #	FROM ROOM	TO ROOM	DOOR TYPE	DOOR MATERIAL	DOOR OPENING WIDTH	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	FRAME TYPE	FRAME MATERIAL	FRAME DEPTH	HDWR	FIRE RATING (MINS)	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS JAMB	FRAME DETAILS SILL	SIGNAGE TYPE	REFERENCED NOTES
101		FAMILY RR	F	HM	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"	010		4/A-501	5/A-502	5/A-502			
102	MECHANICAL / JANITOR		F	HM	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"	020		4/A-501	5/A-502	5/A-502			
103	MENS		F	HM	6'-0"	3'-0" / 3'-0"	7'-2"	1 3/4"	DFO	HM	5 3/4"	030		4/A-501	4/A-502	4/A-502			
104		WOMENS	F	HM	6'-0"	3'-0" / 3'-0"	7'-2"	1 3/4"	DFO	HM	5 3/4"	030		4/A-501	4/A-502	4/A-502			
200	CONCESSIONS		F	HM	6'-0"	3'-0" / 3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"	040		4/A-501					
200A	CONCESSIONS		OHRD	AA	7'-4"		4'-0"		FM	AA	0"	050		2/A-501	3/A-601	3/A-601	1/A-501		
200B	CONCESSIONS		OHRD	AA	7'-4"		4'-0"		FM	AA	0"	050		2/A-501	3/A-601	3/A-601	1/A-501		
200C	CONCESSIONS		OHRD	AA	7'-4"		4'-0"		FM	AA	0"	050		2/A-501	3/A-601	3/A-601	1/A-501		
200D	CONCESSIONS		OHRD	AA	7'-4"		4'-0"		FM	AA	0"	050		2/A-501	3/A-601	3/A-601	1/A-501		
200E	STORAGE	CONCESSIONS	F	HM	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"	060		2/A-601	1/A-601	1/A-601			
201	STORAGE		F	HM	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"	020		4/A-501	5/A-502	5/A-502			



DFO
(DOOR FRAME, OPPOSITE SWING)

DF
(DOOR FRAME)

FRAME TYPES
1/4" = 1'-0"



OHRD

F

DOOR TYPES
1/4" = 1'-0"

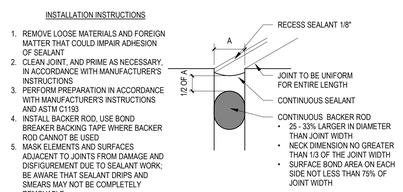
GENERAL NOTES

GENERAL:
1. ALL DOOR AND FRAME TYPES ARE SHOWN AS EXTERIOR VIEW.
2. FRAME WIDTHS ARE INDICATED ON THE FLOOR PLANS. FRAME HEIGHTS ARE INDICATED ON THE FRAME TYPES. DOOR DIMENSIONS ARE INDICATED ON THE DOOR AND FRAME SCHEDULE.
3. DIMENSIONS ARE INDICATED FOR BIDDING PURPOSES ONLY AND SHALL BE FIELD VERIFIED PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION.
4. THE MANUFACTURER(S) SHALL BE RESPONSIBLE FOR THE ENGINEERING AND STRUCTURAL INTEGRITY OF THEIR FRAME SYSTEMS.
5. ALL FRAMES IN MASONRY OPENINGS REQUIRE A LINTEL. REFER TO DOOR AND FRAME SCHEDULE AND/OR STRUCTURAL DRAWINGS.
6. ALL OPENINGS IN FRAMES REQUIRE GLAZING PANELS OR INFILL PANELS EXCEPT FOR DOOR OPENINGS. GLAZING TYPES FOR EXTERIOR FRAMES ARE INDICATED ON THE FRAME TYPES. GLAZING TYPES FOR INTERIOR FRAMES ARE INDICATED ON THE DOOR AND FRAME SCHEDULE OR HEREIN.
7. ALL OPENINGS IN DOORS REQUIRE GLAZING PANELS UNLESS NOTED OTHERWISE. GLAZING TYPES FOR DOORS ARE INDICATED ON THE DOOR AND FRAME SCHEDULE OR HEREIN.
8. HARDWARE SETS AND GLAZING TYPES ARE SPECIFIED IN THE PROJECT MANUAL.
9. FRAMES SHALL BE DESIGNED, CUT, AND FABRICATED TO MINIMIZE JOINTS:
   A. JOINTS IN HOLLOW METAL FRAMES SHALL RECEIVE METAL FILLER, BE GROUND SMOOTH AND SHOP/FIELD PRIMED PRIOR TO FINISH PAINT.
   B. JOINTS IN EXTERIOR ALUMINUM FRAMES SHALL BE AIR AND WATER TIGHT IN ACCORDANCE WITH THE REQUIREMENTS IDENTIFIED IN THE PROJECT MANUAL. LAP AND SEAL ALL JOINTS. ALLOW FOR EXPANSION IN THE TRIM AND AT JOINTS AND INTERSECTIONS OF ADJACENT FRAMES.

HOLLOW METAL DOORS AND FRAMES:
10. ALL HOLLOW METAL FRAMES SHALL HAVE THE FOLLOWING CHARACTERISTICS UNO:
    A. FACE WIDTH: 2"
    B. FRAME DEPTH: 5-3/4" UNO
    C. THROAT: 4-7/8"
    D. RETURN: 7/16"
11. ANCHORAGE AT HOLLOW METAL FRAMES:
    A. PROVIDE FASTENERS AT 18" ON CENTER AND MINIMALLY THREE (3) ANCHORS PER JAMB.
    B. AT FRAMES INSTALLED PRIOR TO MASONRY INSTALLATION PROVIDE GALVANIZED STEEL "T" ANCHORS.
    C. AT FRAMES INSTALLED AFTER MASONRY INSTALLATION OR AT EXISTING MASONRY OPENINGS PROVIDE GALVANIZED STEEL SPACER BRACKETS, ANCHOR SLEEVES WELDED TO THE INTERIOR OF THE FRAME, AND COUNTERSUNK 3/8" FLATHEAD EXPANSION ANCHORS. COVER HEAD OF FASTENERS WITH METAL FILLER, GRIND SMOOTH, PRIME AND FINISH PAINT.
    D. AT FRAMES INSTALLED IN STUD PARTITIONS PROVIDE GALVANIZED STEEL Z-TYPE SPACE BRACKETS.
12. JAMBS OF FRAMES INSTALLED IN EXTERIOR WALLS AND WHERE INDICATED SHALL BE GROUTED SOLID. COVER GROUT HOLES WITH METAL FILLER, GRIND SMOOTH, PRIME AND FINISH PAINT.

REFERENCED NOTES

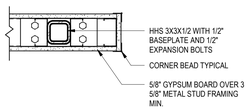
1. PROVIDE CARD READER AND ELECTRIC LATCH
2. REFER TO ALUMINUM FRAME TYPES FOR ADDITIONAL INFORMATION. ALUMINUM STOREFRONT AND CURTAIN WALL ELEVATION TAGS ARE SHOWN ON FLOOR PLANS.
3. DOOR ASSEMBLY TO MEET FULL RATING.



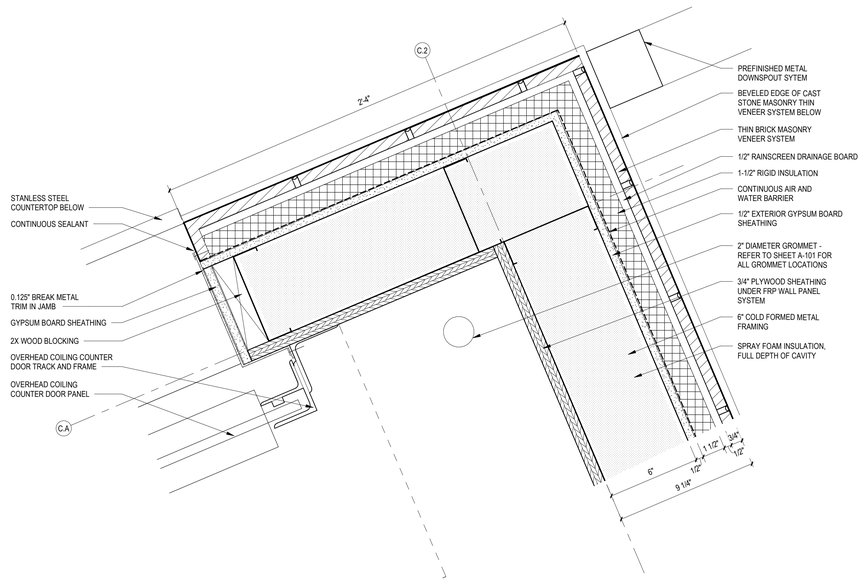
INSTALLATION INSTRUCTIONS

1. REMOVE LOOSE MATERIALS AND FOREIGN MATTER THAT COULD IMPAIR ADHESION OF SEALANT.
2. CLEAN JOINT, AND PRIME AS NECESSARY, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
3. PERFORM PREPARATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ASTM C1193
4. INSTALL BACKER ROD, USE BOND BREAKER BACKING TAPE WHERE BACKER ROD CANNOT BE USED
5. MASK ELEMENTS AND SURFACES ADJACENT TO JOINTS FROM DAMAGE AND DISFIGUREMENT DUE TO SEALANT WORK; BE AWARE THAT SEALANT DRIPS AND SMEARS MAY NOT BE COMPLETELY REMOVABLE
6. PERFORM INSTALLATION PER MANUFACTURERS'S INSTRUCTIONS AND ASTM C1193
7. TOOL SURFACE CONCAVE, UNLESS OTHERWISE INDICATED; REMOVE MASKING MATERIAL IMMEDIATELY AFTER TOOLING SEALANT SURFACE

5 BACKER ROD & SEALANT DETAIL
12" = 1'-0"

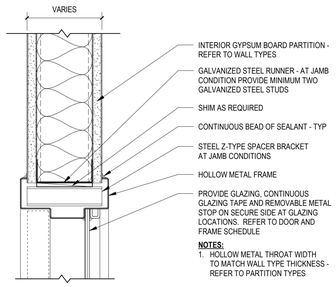


4 PARTIAL HEIGHT PARTITION PLAN DETAIL
1 1/2" = 1'-0"



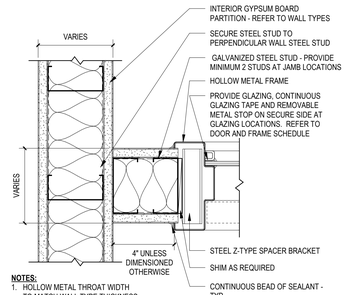
3 PLAN DETAIL - COILING DOOR JAMB
3" = 1'-0"

A-101



NOTES:
1. HOLLOW METAL THROAT WIDTH TO MATCH WALL TYPE THICKNESS - REFER TO PARTITION TYPES

2 TYP. HOLLOW METAL - HEAD DETAIL - STUD WALL
3" = 1'-0"



NOTES:
1. HOLLOW METAL THROAT WIDTH TO MATCH WALL TYPE THICKNESS - REFER TO PARTITION TYPES

1 TYP. HOLLOW METAL - JAMB DETAIL - STUD WALL
3" = 1'-0"

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Moline, IL, 61265
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RTM Engineering
5137 Utica Ridge Rd.
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

SIGNATURE
DATE

REVISIONS

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1	ADDENDUM 1	03.08.16

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DATE OF ISSUE	1/29/2025
DRAWN BY	VP
REVIEWED BY	ZC

DOOR AND FRAME DETAILS

A-601

BIDDING

MECHANICAL ABBREVIATIONS:

AC	AIR CONDITIONER
ACH	AIR CHANGES PER HOUR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU(S) PER HOUR
CC	COOLING COIL
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT AIR VOLUME
DAT	DISCHARGE AIR TEMPERATURE
DB	DECIBEL OR DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FA	FREE AREA
FC	FAN COIL
FD	FIRE DAMPER
FH	FUME HOOD
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FREEZE STAT
FSD	COMBINATION FIRE/SMOKE DAMPER
GA	GAUGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDISTAT
HC	HEATING COIL
HD	HOOD OR HEAT DETECTOR
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR
HUM	HUMIDIFIER
HX	HEAT EXCHANGER
HZ	HERTZ
IN W.C.	INCHES WATER COLUMN
IN W.G.	INCHES WATER GAUGE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
NC	NORMALLY CLOSED
NK	NECK
NO	NORMALLY OPEN
P	PUMP
PA	PASCAL
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RO	RELIEF OPENING
RPM	REVOLUTIONS PER MINUTE
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DAMPER OR SMOKE DETECTOR
SF	SQUARE FEET OR SUPPLY FAN
SPS	STATIC PRESSURE SENSOR
T	THERMOSTAT
TD	TEMPERATURE DIFFERENCE
TO	TRANSFER OPENING
UC	UNDERCUT (DOOR)
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WATT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP

MECHANICAL EQUIPMENT:

- VFD — VARIABLE FREQUENCY DRIVE
- CB — CONTROL BOX
- M — ENERGY METER
- M — NATURAL GAS METER
- PUMP (SEE SCHEDULE FOR TYPE)
- VARIABLE AIR VOLUME BOX
- VAV BOX WITH ELECTRIC REHEAT
- VAV BOX WITH HYDRONIC REHEAT
- ROUND IN / ROUND OUT VAV BOX
- FAN POWERED BOX

MECHANICAL TAGS:

- VISIBLE DIMENSION
- ## x ## XX — DUCT DIMENSIONS (CLEAR, INTERNAL)
- SYSTEM ABBREVIATION
- TYPE: S - SUPPLY; R - RETURN; E - EXHAUST; T - TRANSFER
- SIZE (OPTIONAL)
- X# (# x #) ### — DIFFUSER TAG
- AIR FLOW RATE
- MARK
- X / X — MECHANICAL EQUIPMENT TAG
- NUMBER
- RISER X — RISER TAG
- NUMBER
- PIPE SIZE
- ##" XX — PIPE DIMENSION TAG
- SYSTEM ABBREVIATION
- POINT OF NEW CONNECTION
- POINT OF DISCONNECTION

GENERAL:

- ## — DRAWING KEYNOTE SYMBOL
- DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY
- DETAIL NUMBER / SHEET NUMBER — VIEW REFERENCE CALLOUT
- +X' - X" — MOUNTING HEIGHT DESIGNATION

DUCT SYSTEMS:

- BD-# — BACKDRAFT DAMPER
- FD-# — FIRE DAMPER
- SD-# — SMOKE DAMPER
- FSD-# — COMBINATION FIRE SMOKE DAMPER
- MD-# — MOTORIZED DAMPER
- VOLUME DAMPER
- SIDEWALL GRILLE
- CEILING DIFFUSER, SUPPLY 4-WAY BLOW PATTERN
- CEILING DIFFUSER, SUPPLY 3-WAY BLOW PATTERN
- CEILING DIFFUSER, SUPPLY 2-WAY BLOW PATTERN
- CEILING DIFFUSER, SUPPLY 1-WAY BLOW PATTERN
- CEILING DIFFUSER, RETURN
- CEILING DIFFUSER, EXHAUST
- UC — DOOR UNDERCUT
- DUCT SECTION, SUPPLY
- DUCT SECTION, RETURN
- DUCT SECTION, EXHAUST
- FLEXIBLE DUCT
- DIRECTION OF AIR FLOW
- DUCT SIZE TRANSITION
- RECTANGULAR ELBOW DOWN - SINGLE LINE
- ROUND ELBOW DOWN - SINGLE LINE
- RECTANGULAR ELBOW UP - SUPPLY
- RECTANGULAR ELBOW DOWN - SUPPLY
- ROUND ELBOW UP - SUPPLY
- ROUND ELBOW DOWN - SUPPLY
- RECTANGULAR ELBOW UP - RETURN
- RECTANGULAR ELBOW DOWN - RETURN
- ROUND ELBOW UP - RETURN
- ROUND ELBOW DOWN - RETURN
- RECTANGULAR ELBOW UP - EXHAUST
- RECTANGULAR ELBOW DOWN - EXHAUST
- ROUND ELBOW UP - EXHAUST
- ROUND ELBOW DOWN - EXHAUST
- MITERED ELBOW
- MITERED ELBOW WITH TURNING VANES
- ACCESS DOOR - TOP/SIDE
- AIR FLOW MEASURING STATION
- SOUND ATTENUATOR
- FLEXIBLE CONNECTION

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR AS REQUIRED TO INSTALL A COMPLETE AND OPERABLE HVAC SYSTEM PER THE NEW ARCHITECTURAL LAYOUT AND AS TO COMPLY WITH THE SPECIFICATION, DETAILS,THIS SCOPE OF WORK AND ALL APPLICABLE CODES.
2. ALL WORK PERFORMED SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE ALL NEW WORK WITH ALL TRADES PRIOR TO ANY WORK BEING DONE TO INSURE CONFLICTS DO NOT OCCUR.
4. DISRUPTION OF ANY EXISTING SERVICE SHALL BE CLEARED WITH THE OWNER AND SHALL BE PERFORMED AT A TIME AND IN A MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.
5. ALL DUCT SIZES INDICATED ON PLANS AND RISERS ARE CLEAR INSIDE DIMENSIONS. DUCT SIZES NOT SHOWN SHALL BE SIZED TO VELOCITIES NO GREATER THAN UPSTREAM SECTION USING SIMILAR ASPECT RATIOS.
6. ALL SUPPLY AIR TAKEOFFS FROM MAIN TRUNK DUCTS ARE TO BE INSTALLED WITH BELL MOUTH FITTINGS OR 45 DEGREE ENTRY TO PROVIDE THE SMOOTHEST AIR FLOW POSSIBLE.
7. PROVIDE TURNING VANES IN ALL LOW-PRESSURE 90-DEGREE DUCT TURNS.
8. ALL THERMOSTAT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT.
9. ALL DUCTS LOCATED ABOVE INACCESSIBLE CEILINGS ARE TO BE BALANCED PRIOR TO CEILING INSTALLATIONS.
10. CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR SERVICE AND MAINTENANCE OF ALL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILINGS.
11. PROVIDE GUIDES, HANGERS, EXPANSION LOOPS AND SUPPLEMENTARY STEEL SUPPORT WHERE REQUIRED FOR ALL PIPING.
12. PROVIDE REMOTE CABLE OEPRATED BALANCING DAMPER FOR DIFFUSERS MOUNTED IN HARD CEILINGS.
13. ALL DUCT WORK AND DIFFUSERS TO BE ALUMINUM.
14. ALL CONTROLS FOR EXHAUST FANS, UNIT HEATERS AND FANS ARE LOCAL CONTROLS. SEE SCHEDULE SHEET M-201 FOR MORE DETAILS ON CONTROLS. 1

DUCT SYSTEM ABBREVIATIONS:

CA	COMBUSTION AIR
CV	COMBUSTION VENT
EA-AII	EXHAUST AIR - AIRBORNE INFECTIOUS ISOLATION
EA-CH	EXHAUST AIR - CHEMICAL
EA-D	EXHAUST AIR - DRYER
EA	EXHAUST AIR - ENVIRONMENTAL
EA-K1	TYPE 1 - KITCHEN EXHAUST
EA-K2	TYPE 2 - KITCHEN EXHAUST
OA	OUTDOOR AIR
RA	RETURN AIR
SA	SUPPLY AIR

HVAC SENSORS:

CO2	CARBON DIOXIDE
CO	CARBON MONOXIDE
DS	DEWPOINT
G	GAS
H	HUMIDITY
NO	NITROGEN OXIDE
P	RELATIVE PRESSURE MONITOR
R	REFRIGERANT MONITOR
SD	SMOKE DETECTOR
SP	STATIC PRESSURE
T	THERMOSTAT
TS	TEMPERATURE

GENERAL ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ARCH	ARCHITECT
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HC	HEATING CONTRACTOR
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PLBG	PLUMBING CONTRACTOR
RM	ROOM
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
VC	VENTILATION CONTRACTOR

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Moline, IL 61265

ARCHITECT
Legat Architects, Inc.
1515 5th Ave., Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER / LANDSCAPE ARCHITECT
Martin & Whitacre
1508 Bidwell Rd.
Muscatine, IA 52761
P: 563.263.7691
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IMEG
623 26th Ave.
Rock Island, IL 61201
P: 309.788.0673
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RTM Engineering Consultants
5137 Utica Ridge Rd.
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

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DATE

REVISIONS

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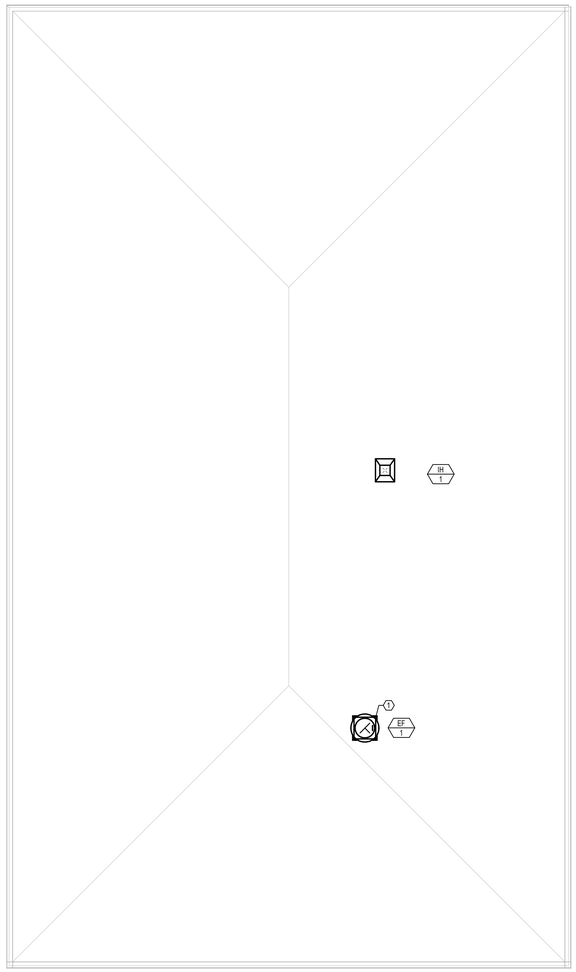
1	ADDENDUM #1	02.10.25

PROJECT NUMBER	224151.00
DATE OF ISSUE	01/29/2024
DRAWN BY	KH
REVIEWED BY	RK

MECHANICAL LEGEND AND SPECIFICATIONS

M-000

BIDDING



2 M-102 MECHANICAL ROOF HVAC PLAN - TOILET ROOM

1/4" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER TO RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCT WORK AND DIFFUSERS TO BE CORROSIVE RESISTANT ALUMINUM.

1

#	KEYNOTES
1	EXHAUST DISCHARGE TO BE A MINIMUM OF 10'-0" AWAY FROM ANY OA INTAKES.

LEGAT ARCHITECTS
Design with a Difference

MCVSD 40

BROWNING CONCESSIONS

15th Street
Moline, IL 61265

ARCHITECT
Legat Architects, Inc.
1515 5th Ave., Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER / LANDSCAPE ARCHITECT
Martin & Whitacre
1508 Bidwell Rd.
Muscatine, IA 52761
P: 563.263.7691
www.martin-whitacre.com

STRUCTURAL ENGINEER
IMEG
623 26th Ave.
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering Consultants
5137 Utica Ridge Rd.
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.10.25

PROJECT NUMBER	224151.00
DATE OF ISSUE	01/29/2024
DRAWN BY	KH
REVIEWED BY	RK

MECHANICAL ROOF HVAC PLAN

M-102

BIDDING

GENERAL NOTES:

1. REFER TO ELECTRICAL GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
3. INSTALL WALL MOUNTED OUTLETS 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
4. PROVIDE A SEPERATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON MECHANICAL EQUIPMENT. REFER TO E-301 FOR FEEDER, GROUND, AND CONDUIT SIZES.
5. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
6. ALL WALL RECEPTACLES ARE RECESSED MOUNTED.
7. ALL RECEPTACLES TO BE TAMPER RESISTANT RECEPTACLES PER NEC 406.12.
8. COORDINATE FINAL SECURITY CAMERA LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

 # KEYNOTES

1 EC TO PROVIDE TWO (2) 2" CONDUIT BETWEEN 'MECHANICAL/JANITOR 102' IN RESTROOM BUILDING TO 'STORAGE 201' IN CONCESSION BUILDING FOR FUTURE DATA/SECURITY CONNECTIONS. COORDINATE WORK WITH CIVIL CONTRACTOR.

2 EC TO PROVIDE TWO (2) 2" CONDUIT FROM MECHANICAL/JANITOR 102 IN TOILET BUILDING TO HANDHOLE BOX FOR FUTURE SIGN LOCATION. REFER TO 1ES-101 FOR HANDHOLE BOX LOCATION. COORDINATE WORK WITH CIVIL CONTRACTOR.

3 ELECTRICAL CONTRACTOR TO PROVIDE PLYWOOD BACKBOARD AND GROUND BUSBAR FOR INSTALLATION OF NETWORK SWITCH PROVIDED BY OTHERS.

4 PROVIDE 1" CONDUIT, AND A BUILDING PENETRATRATION FOR POINT TO POINT BRIDGING EQUIPMENT TO PLYWOOD BACKBOARD. LOCATION SHALL BE COORDINATED WITH OWNER FOR SMALL NETWORK SWITCH PROVIDED BY THE SCHOOL DISTRICT. COORDINATE EXACT DESIRED LOCATION FOR POINT TO POINT ON BUILDING PRIOR TO INSTALLATION.

5 PROVIDE LOCKABLE OUTLET COVER FOR EXTERIOR RECEPTACLE.

6 EXHAUST FAN TO BE CONTROLLED BY A TIME CLOCK. PROVIDE NECESSARY COMPONENTS FOR COMPLETE OPERATION.

7 PROVIDE ELECTRICAL CONNECTION FOR HAND DRYER. COORDINATE REQUIREMENT WITH OWNER.

8 EXHAUST FAN TO BE CONTROLLED WITH LIGHTING. PROVIDE COMPLETE COMPONENT FOR AN OPERATIONAL SYSTEM.

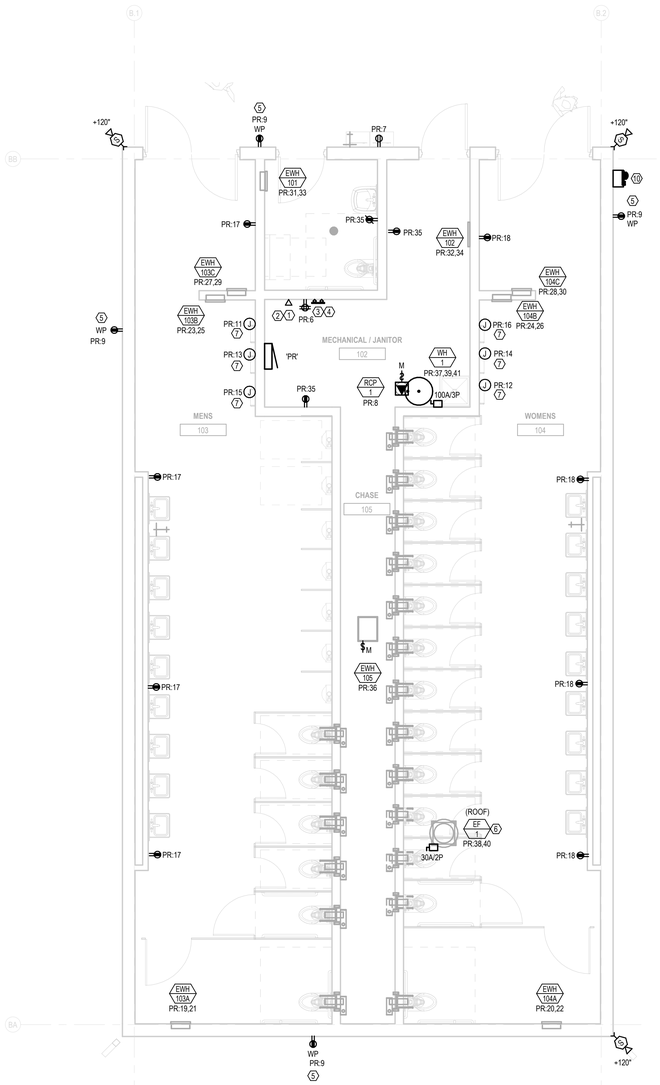
9 PROVIDE SWITCH TO CONTROL CIRCULATING FANS F-1.

10 PROVIDE UTILITY METER PER LOCAL UTILITY REQUIRMENTS. COORDINATE EQUIPMENT LOCATION AND PROVIDED EQUIPMENT WITH UTILITY PRIOR TO PURCHASE OR INSTALLATION.

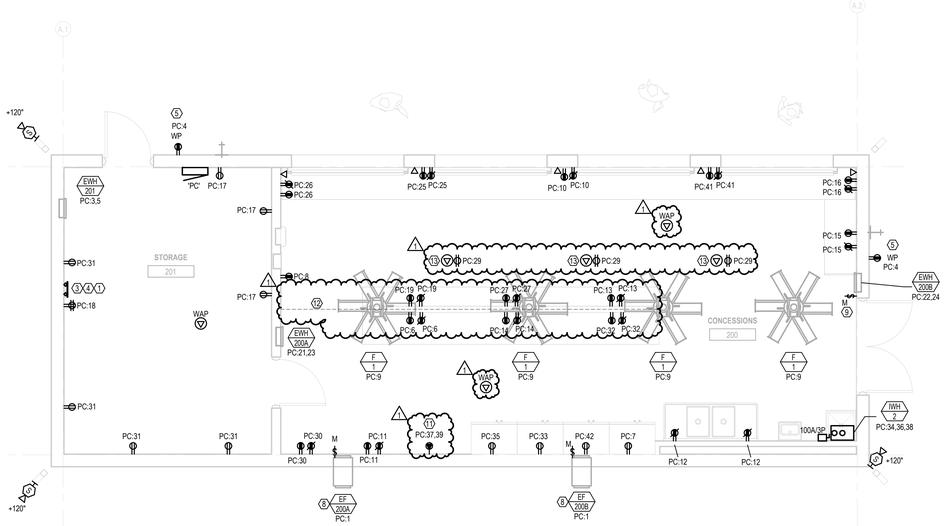
11 PROVIDE NEMA L14-30 DEVICE AT 3'6" AFF. WITH 3#8 AND 1#10 GND IN 1" C FOR POPCORN MACHINE. COORDINATE SPECIFIC LOCATION AND CONFIRM FINAL REQUIRMENT WITH OWNER PRIOR TO INSTALLATION.

12 EC TO PROVIDE (6) 3/4" CONDUIT FOR POWER ROUTED AS SHOWN TO ACCESSIBLE FULL HEIGHT WALL. COORDINATE EXACT QUANTITY WITH DEVICES SHOWN ON FLOOR PLAN.

13 PROVIDE POWER AND DATA CONNECTIONS FOR CEILING MOUNTED TV. COORDINATE FINAL LOCATION AND REQUIREMENT WITH OWNER.



1 E-101 ELECTRICAL FIRST FLOOR POWER PLAN - TOILET ROOM
1/4" = 1'-0"



2 E-101 ELECTRICAL FIRST FLOOR POWER PLAN - CONCESSIONS
1/4" = 1'-0"

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MEP/FP ENGINEER
RTM Engineering Consultants
5137 Utica Ridge Rd.
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.10.25

PROJECT NUMBER	224151.00
DATE OF ISSUE	01/29/2024
DRAWN BY	CM
REVIEWED BY	NI

ELECTRICAL FIRST FLOOR POWER PLAN

E-101

BIDDING

Branch Panel: PR

Location: MECHANICAL / JANITOR 102
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42K
Mains Type: MCB
Bus Amps: 400 A
MCB Rating: 400 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A		B		C		Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	EXTERIOR LIGHTING	1 A	20 A	1	120 VA	0 VA					1	20 A	--	SPARE	2	
	3	INTERIOR LIGHTING	4.34...	20 A	1			521 VA	0 VA			1	20 A	--	SPARE	4	
	5	INTERIOR LIGHTING	3 A	20 A	1					360 VA	360 VA	1	20 A	3 A	RECEPTS. STORAGE IT RACK	6	
G	7	BOTTLE FILLER	1 A	20 A	1	120 VA	127 VA					1	15 A	1.06...	RCP-1	8	
	9	EXTERIOR RECEPTS. RR BUILDING	6 A	20 A	1			720 VA	0 VA			1	20 A	--	SPARE	10	
	11	HAND DRYER MENS 103	7.92...	20 A	1					950 VA	950 VA	1	20 A	7.92...	HAND DRYER WOMENS 104	12	
	13	HAND DRYER MENS 103	7.92...	20 A	1	950 VA	950 VA					1	20 A	7.92...	HAND DRYER WOMENS 104	14	
	15	HAND DRYER MENS 103	7.92...	20 A	1			950 VA	950 VA			1	20 A	7.92...	HAND DRYER WOMENS 104	16	
	17	RECEPTS. MENS 103	6 A	20 A	1					720 VA	720 VA	1	20 A	6 A	RECEPTS. WOMENS 104	18	
	19	EWH-103A, MENS RR	19.2...	30 A	2	2000 VA	2000 VA					2	30 A	19.2...	EWH-104A, WOMENS RR	20	
	21							2000 VA	2000 VA							22	
	23	EWH-103B, MENS RR	19.2...	30 A	2					2000 VA	2000 VA	2	30 A	19.2...	EWH-104B, WOMENS RR	24	
	25					2000 VA	2000 VA									26	
	27	EWH-103C, MENS RR	9.62...	15 A	2			1000 VA	1000 VA			2	15 A	9.62...	EWH-104C, WOMENS RR	28	
	29									1000 VA	1000 VA					30	
	31	EWH-101, FAMILY RR	9.62...	15 A	2	1000 VA	500 VA					2	15 A	4.81...	EWH-102, MECH'JAN	32	
	33							1000 VA	500 VA							34	
	35	RECEPTS. FAMILY RR AND JAN	4.5 A	20 A	1					540 VA	1500 VA	1	20 A	12.5...	EWH-105	36	
	37	WH-1	66.62 A	100 A	3	8000 VA	300 VA					2	15 A	2.88...	EF-1	38	
	39							8000 VA	300 VA							40	
	41									8000 VA	0 VA	1	20 A	--	SPARE	42	
	43	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	44	
	45	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	46	
	47	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	48	
	49	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	50	
	51	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	52	
	53	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	54	
	55	SURGE PROTECTION DEVICE	--	60 A	3	0 VA	16680...					3	225 A	153.8 6 A	PANEL 'PC'	56	
	57							0 VA	19843...							58	
	59									0 VA	18907 VA					60	
					Total Load:	36722 VA		38784 VA		39006 VA							
					Tot...	306 A		326 A		328 A							

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MCB = MAIN CIRCUIT BREAKER
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	35927 VA	100.00%	35927 VA		
Heating	50600 VA	100.00%	50600 VA	**Total Conn. Load:**	114512 VA
Power	17134 VA	100.00%	17134 VA	**Total Est. Demand:**	114512 VA
Lighting	1552 VA	100.00%	1552 VA	**Total Conn.:**	318 A
REFRIGERATOR	3600 VA	100.00%	3600 VA	**Total Est. Demand:**	318 A
HAND DRYER	5700 VA	100.00%	5700 VA		

Notes:

Branch Panel: PC

Location: STORAGE 201
Supply From: PR
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42K
Mains Type: MCB
Bus Amps: 225 A
MCB Rating: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A		B		C		Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	INTERIOR LIGHTING	7.15...	20 A	1	858 VA	120 VA					1	20 A	1 A	EXTERIOR LIGHTING	2	
	3	EWH-201	9.62...	15 A	2			1000 VA	360 VA			1	20 A	3 A	EXT. RECEPTS. CONCESSION BUILDING	4	
	5									1000 VA	360 VA	1	20 A	3 A	RECEPTS. CONCESSIONS	6	
G	7	REFRIGERATOR CONCESSIONS	7.5 A	20 A	1	900 VA	180 VA					1	20 A	1.5 A	RECEPTS. CONCESSIONS	8	
	9	F-1 FANS	3.33...	20 A	1			400 VA	360 VA			1	20 A	3 A	RECEPTS. CONCESSIONS	10	
	11	RECEPTS. CONCESSIONS	3 A	20 A	1					360 VA	360 VA	1	20 A	3 A	RECEPTS. CONCESSIONS	12	
	13	RECEPTS. CONCESSIONS	3 A	20 A	1	360 VA	360 VA					1	20 A	3 A	RECEPTS. CONCESSIONS	14	
	15	RECEPTS. CONCESSIONS	3 A	20 A	1			360 VA	360 VA			1	20 A	3 A	RECEPTS. CONCESSIONS	16	
	17	RECEPTS. STORAGE	4.5 A	20 A	1					540 VA	360 VA	1	20 A	3 A	RECEPT. IT RACK	18	
	19	RECEPTS. CONCESSIONS	3 A	20 A	1	360 VA	0 VA					1	20 A	--	SPARE	20	
	21	EWH-200A	19.2...	30 A	2			2000 VA	2000 VA			2	30 A	19.2...	EWH-200B	22	
	23									2000 VA	2000 VA					24	
	25	RECEPTS. CONCESSIONS	3 A	20 A	1	360 VA	360 VA					1	20 A	3 A	RECEPTS. CONCESSIONS	26	
	27	RECEPTS. CONCESSIONS	3 A	20 A	1			360 VA	0 VA			1	20 A	--	SPARE	28	
	29	TV CEILING RECEPTS. CONCESSIONS	4.5 A	20 A	1					540 VA	360 VA	1	20 A	3 A	RECEPTS. CONCESSIONS	30	
	31	RECEPTS. STORAGE 201	6 A	20 A	1	720 VA	360 VA					1	20 A	3 A	RECEPTS. CONCESSIONS	32	
G	33	REFRIGERATOR CONCESSIONS	7.5 A	20 A	1			900 VA	8867 VA			3	40 A	73.83 A	IWH-2	34	
G	35	REFRIGERATOR CONCESSIONS	7.5 A	20 A	1					900 VA	8867 VA					36	
	37	POPCORN MACHINE CONCESSIONS	27.6...	40 A	2	2876 VA	8867 VA									38	
	39							2876 VA	0 VA			1	20 A	--	SPARE	40	
	41	RECEPTS. CONCESSIONS	3 A	20 A	1					360 VA	900 VA	1	20 A	7.5 A	REFRIGERATOR CONCESSIONS	42	G
					Total Load:	16680 VA		19843 VA		18907 VA							
					Tot...	139 A		168 A		160 A							

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MCB = MAIN CIRCUIT BREAKER
CB = CIRCUIT BREAKER
CKT = CIRCUIT

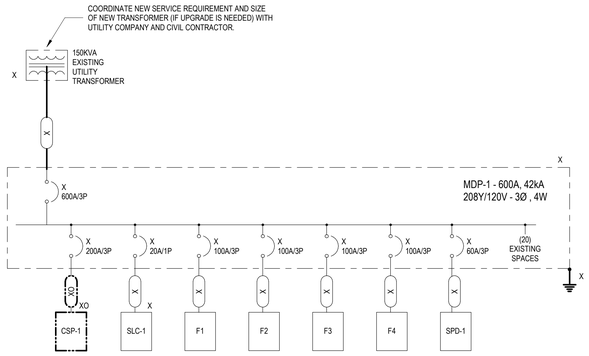
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10827 VA	100.00%	10827 VA		
Heating	26600 VA	100.00%	26600 VA	**Total Conn. Load:**	55430 VA
Power	13852 VA	100.00%	13852 VA	**Total Est. Demand:**	55430 VA
Lighting	551 VA	100.00%	551 VA	**Total Conn.:**	154 A
REFRIGERATOR	3600 VA	100.00%	3600 VA	**Total Est. Demand:**	154 A

Notes:

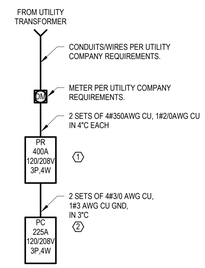
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FIXTURE TYPE	LIGHT SOURCE K	LIGHT SOURCE CRI	INPUT WATTS	VOLTS	SPECIFIED FIXTURE MANUFACTURER	SPECIFIED FIXTURE MODEL NO.
EM1	EMERGENCY FIXTURE	LED	0		1.0	120	LUMINATION LITHONIA COOPER	LUMEL EU2C ATLEM SERIES
EX	SINGLE FACED EXIT SIGN	LED	0		5.0	120	LITHONIA COMPASS EMERGI-LITE	LQM-S-W-R-MVOLT-EL-N CER LWSNX1-R2LA
F1A	SUFACE MOUNTED FIXTURE	LED	35	80	18.6	120	LITHONIA FAIL-SAFE	RW34-1W20-35/80-AW-VAR-DM-APD ZL1D SERIES HVSL2-SQ SERIES
F1B	SUFACE MOUNTED FIXTURE	LED	35	80	24.4	120	LITHONIA FAIL-SAFE	RW34-1W26-35/80-AW-VAR-DM-APD ZL1D SERIES HVSL2-SQ SERIES
F1C	SUFACE MOUNTED FIXTURE	LED	35	80	39.6	120	LITHONIA FAIL-SAFE	RW34-1W43-35/80-AW-VAR-DM-APD ZL1D SERIES HVSL2-SQ SERIES
F2	WALL PACK	LED	30	80	15.0	120	LITHONIA H.E. WILLIAMS COOPER	WEDGE2 LED P2 30K 80CRI VF VWP LED ENC
F2E	WALL PACK WITH COLD WEATHER BATTERY BACKUP	LED	30	80	15.0	120	LITHONIA H.E. WILLIAMS COOPER	WEDGE2 LED P2 30K 80CRI VF E20WC VWP LED ENC

Notes:
1. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLTION OF FIXTURE(S) IN THE SPACE. COORDINATE ALL INSTALLATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
2. THE FIRST LISTED FIXTURE PRODUCT IN THE APPROVED MANUFACTURERS COLUMN WITH A FULL PRODUCT NUMBER FOR EACH FIXTURE TYPE IS THE BASIS OF DESIGN. ADDITIONAL APPROVED PRODUCT SERIES LISTED MUST MEET ALL THE CHARACTERISTICS LISTED AS THE BASIS OF DESIGN FIXTURE. FINAL PRODUCT APROVAL WILL BE PROVIDED DURING THE SUBMITTAL PROCESS.
3. F1A, F1B AND F1C: CONTRACTOR ROUGH-IN JUNCTION BOXES TO BE LOCATED ABOVE CEILING.



1 / E-301 DEMOLITION ONE LINE DIAGRAM
SCALE: N.T.S.



2 / E-301 NEW ONE LINE DIAGRAM
SCALE: N.T.S.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG 1	DESCRIPTION 2	LOAD 3	WIRE/CONDUIT 4	STARTER 5	VOLTAGE 6	LOCAL DISCONNECT 7	REMARKS
EF 1	EXHAUST FAN	0.75 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	208V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH. MC TO PROVIDE MOTOR STARTER.
EF -	EXHAUST FAN (200A, 200B)	1/6 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH. MC TO PROVIDE MOTOR STARTER.
F 1	CIRCULATING FAN	0.1 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE WALL SWITCH.
EWH -	ELECTRICAL HEATER (101,103C,104C,201)	2 kW	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☒ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	208V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT SWITCH IS INTEGRAL TO THE UNIT.
EWH 102	ELECTRICAL HEATER	1 kW	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☒ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	208V1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT SWITCH IS INTEGRAL TO THE UNIT.
EWH 105	ELECTRIC HEATER	1.5 kW	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☒ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT SWITCH IS INTEGRAL TO THE UNIT.
EWH -	ELECTRIC HEATER (103A,103B,104A,104B, 200A,200B)	4 kW	(2) #10 AWG (1) #10 AWG EQ. GND. 3/4" C.	☒ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	208V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT SWITCH IS INTEGRAL TO THE UNIT.
WH 1	ELECTRICAL WATER HEATER	24 kW	(3) #2 AWG (1) #6 AWG EQ. GND. 1-1/2" C.	☒ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	208V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
IWH 2	ELECTRICAL WATER HEATER	26.6 kW	(4) #8 AWG (1) #10 AWG EQ. GND. 1-1/2" C.	☒ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	208V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
RCP 1	RECIRCULATION PUMP	0.17 HP	(2) #12 AWG (1) #12 AWG EQ.GND. 3/4" C.	☒ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☒ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.

SCHEDULE KEY NOTES

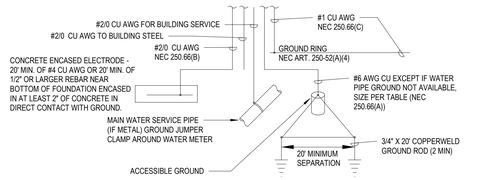
1. VERIFY FINAL LOCATION OF ALL EQUIPMENT WITH EQUIPMENT INSTALLER BEFORE INSTALLING FEEDERS.
2. SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
3. SIZE STARTER/FEEDER DISCONNECT PER FINAL EQUIPMENT REQUIREMENTS.
4. PROVIDE FEEDERS AS INDICATED. VERIFY WITH EQUIPMENT REQUIREMENTS.
5. COORDINATE FINAL STARTER WIRING REQUIREMENTS WITH MECHANICAL EQUIPMENT, PROVIDE ADDITIONAL WIRING AS REQUIRED FOR INSTALLATION STARTER(S) FOR MECHANICAL EQUIPMENT. PROVIDE OVERLOAD PROTECTION (FUSES OR MOTOR CIRCUIT PROTECTOR) PER SPECIFICATIONS, ACTUAL FIELD
6. VERIFY FINAL VOLTAGE AND PHASE REQUIREMENTS OF ALL EQUIPMENT WITH INSTALLER BEFORE INSTALLING FEEDERS.
7. EC TO PROVIDE LOCAL DISCONNECT WITHIN 5'-0" OF EQUIPMENT. NON-STANDARD ITEMS, TIMERS, METERS, INTERLOCKS, ETC.

SCHEDULE GENERAL NOTES

1. PROVIDE POWER CONNECTIONS TO ALL ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND OWNER FURNISHED EQUIPMENT. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND POWER REQUIREMENTS. VERIFY ALL TECHNICAL DATA WITH FINAL SHOP DRAWINGS.
2. OVER CURRENT PROTECTION SIZES LISTED ARE FROM MANUFACTURER'S AND STANDARD MOTOR DATA. FURNISH FUSES BASED ON FUSE MANUFACTURER'S STANDARDS, ACTUAL FIELD MEASURED FULL LOAD CURRENT, AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.
3. FLEXIBLE CONNECTIONS TO MOTORS SHALL BE IN FLEXIBLE CONDUIT. PROVIDE COPPER EQUIPMENT GROUND FROM DISCONNECT TO MOTOR CONNECTION.
4. EC TO COORDINATE WITH THE MECHANICAL EQUIPMENT SCHEDULES TO PROVIDE DISCONNECTS FOR THE MECHANICAL EQUIPMENT.

GENERAL NOTES:
1. REFER TO ELECTRICAL GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.

 # KEYNOTES
1 PANEL SHALL BE SERVICE ENTRANCE RATED. PROVIDE NEUTRAL TO GROUND BOND AT THIS PANEL. PROVIDE MAIN SERVICE GROUND AT THIS LOCATION. REFER TO GROUNDING DETAIL ON THIS SHEET.
2 ELECTRICAL CONTRACTOR TO VERIFY THAT NO ELECTRICAL CIRCUITS SHALL EXCEED A VOLTAGE DROP OF MORE THAN 5%.



3 / E-301 GROUNDING DETAIL
SCALE: N.T.S.

LEGAT ARCHITECTS
Design with a Difference

MCVSD 40

BROWNING CONCESSIONS

15th Street
Moline, IL 61265

ARCHITECT
Legat Architects, Inc.
1515 5th Ave., Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER / LANDSCAPE ARCHITECT
Martin & Whitacre
1508 Bidwell Rd.
Muscatine, IA 52761
P: 563.263.7691
www.martin-whitacre.com

STRUCTURAL ENGINEER
IMEG
623 26th Ave.
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering Consultants
5137 Utica Ridge Rd.
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

SIGNATURE
DATE

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.10.25

PROJECT NUMBER	224151.00
DATE OF ISSUE	01/29/2024
DRAWN BY	CM
REVIEWED BY	NI

ELECTRICAL ONE LINE DIAGRAM, DETAILS, AND SCHEDULES

E-301

BIDDING