Renovations to

Princeton High School

151 Moore St, Princeton, NJ 08540

Princeton Public Schools

25 Valley Road Princeton, NJ 08540

EST 1918
FVHD architects planners
Fraytak Veisz Hopkins Duthie PC
New Jersey | Pennsylvania | fvhdpc.com

French & Parrello Associates
MEP CONSULTING ENGINEERS | WALL TOWNSHIP - NEW JERSEY

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street, Princeton, NJ 08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
WDH

Drawn By
JEK

Scale
AS NOTED

Drawing Name
TITLE SHEET AND DRAWING INDEX

Revisions

No.	Date	Description

Drawing Number
G001

ABBREVIATIONS:

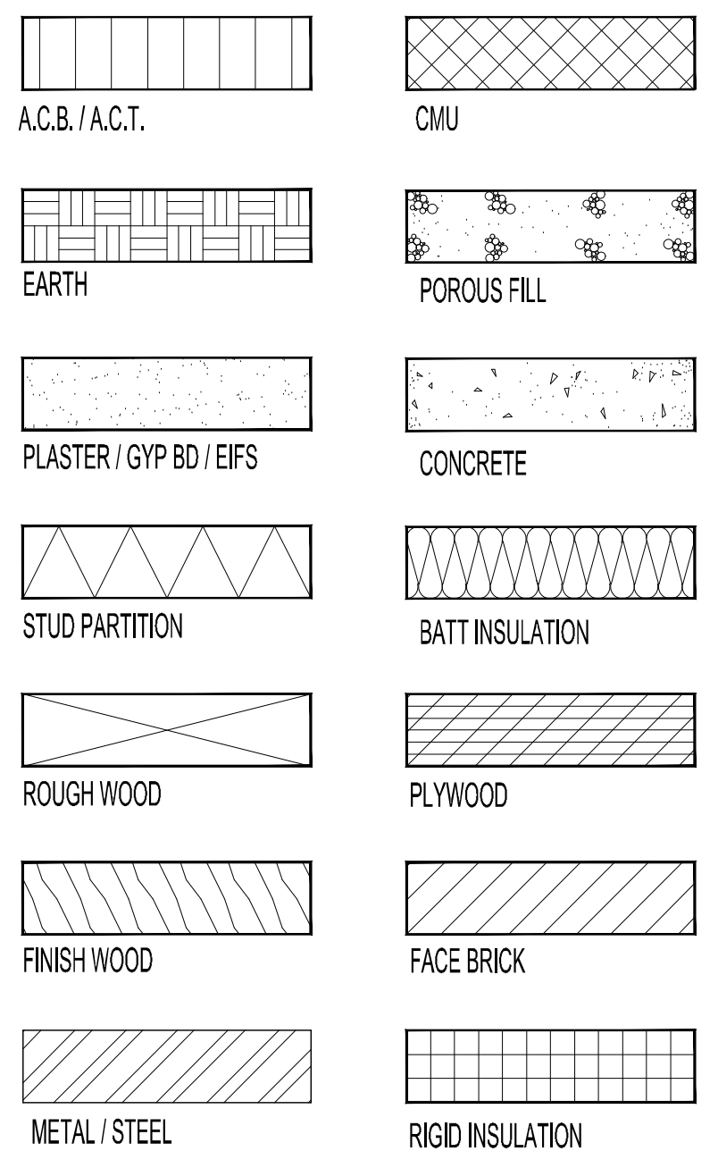
CJ	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
CFMF	COLD FORMED METAL FRAMING
DN	DOWN
DWG	DRAWING
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EL	ELEVATION
EQ	EQUAL
EJ	EXPANSION JOINT
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER (BRACKET MOUNTED)
FEC	FIRE EXTINGUISHER CABINET
FT	FOOT or FEET
FRTW	FIRE RETARDANT TREATED WOOD
GALV	GALVANIZED
GSF	GROSS SQUARE FEET
GWB	GYPSUM WALL BOARD
HM	HOLLOW METAL
HP	HIGH POINT
LP	LOW POINT
MAX	MAXIMUM
MIN	MINIMUM
MO	MASONRY OPENING
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NSF	NET SQUARE FEET
OC	ON CENTER
OD	OVERFLOW DRAIN OR OUTSIDE DIAMETER
PTD	PAINT or PAINTED
PTW	PRESSURE TREATED WOOD
PVC	POLYVINYL CHLORIDE
RD	ROOF DRAIN
REINF	REINFORCED OR REINFORCING
RWC	RAIN WATER CONDUCTOR
SF	SQUARE FEET
TOS	TOP OF STEEL
TYP	TYPICAL
VIF	VERIFY IN FIELD

GENERAL CONSTRUCTION NOTES:

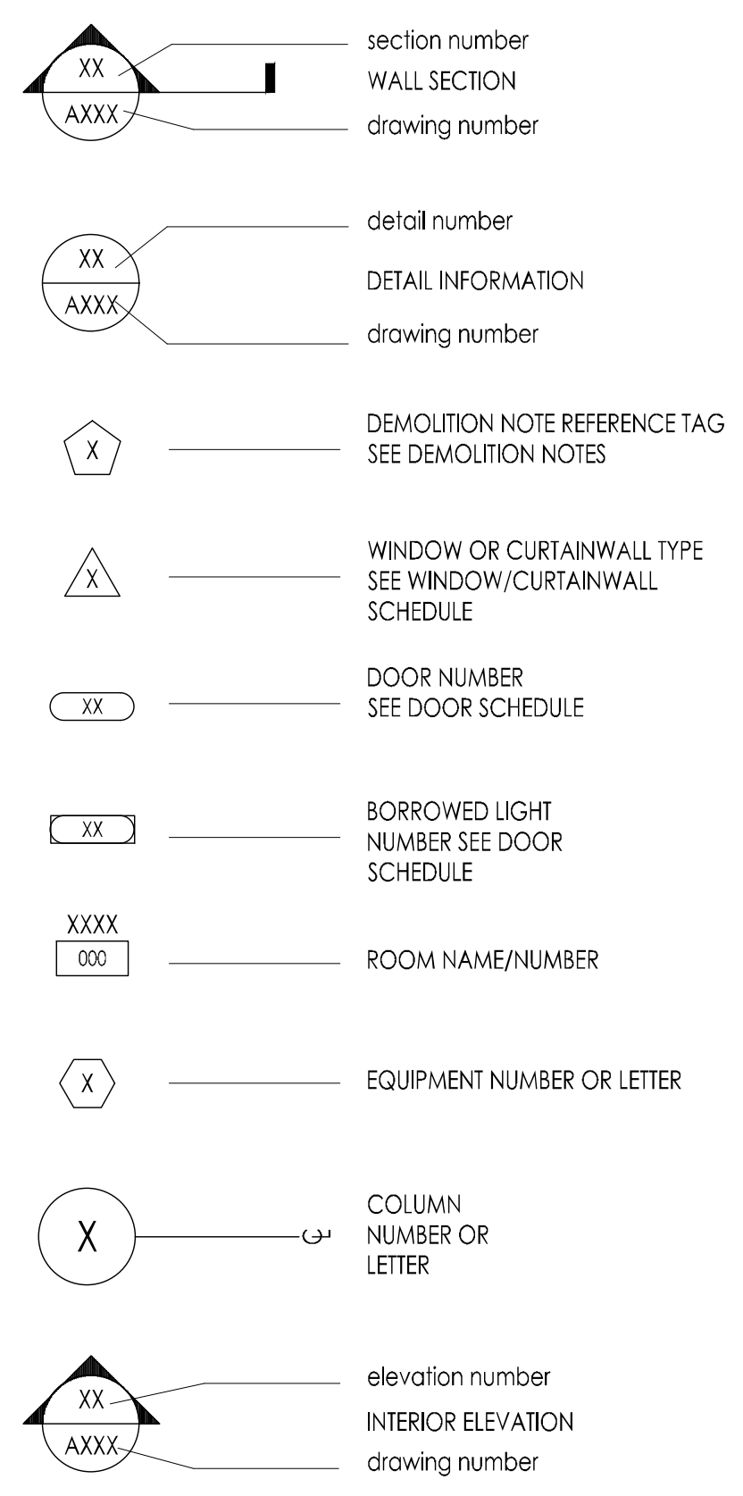
THESE NOTES SHALL APPLY TO ALL WORK THROUGHOUT THE PROJECT.

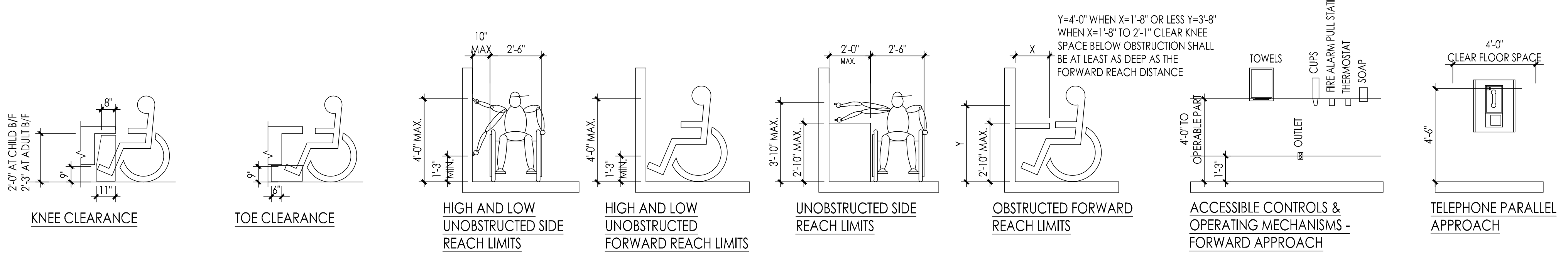
1. ALL CONTRACTORS SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING A BID. DISCREPANCIES OR OMISSIONS MUST BE REPORTED TO THE ARCHITECT IN WRITING (10) DAYS PRIOR TO BID OPENING. IF HE OR SHE DOES NOT, CONTRACTOR SHALL CORRECT SAME AT NO CHANGE IN CONTRACT PRICE.
2. CONTRACTOR SHALL PROVIDE ALL REQUIRED SAFETY PROTECTION DURING CONSTRUCTION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE A SUFFICIENT WORK FORCE TO MEET COMPLETION DATES AS OUTLINED IN THE SPECIFICATIONS. NO EXCEPTIONS WILL BE ALLOWED.
4. DO NOT SCALE THE DRAWINGS.
5. DETAILS NOTED "TYPICAL" IMPLY ALL SUCH CONDITIONS BE TREATED SIMILARLY.
6. MATERIALS LISTED ON THE FINISH SCHEDULE REFER TO THE MAJORITY OF WALLS, FLOOR AND CEILING OF ROOMS SCHEDULED, REFER TO PLANS, DETAILS, INTERIOR ELEVATION, CEILING PLANS, AND NOTES FOR THOSE MATERIALS NOT INDICATED ON THE SCHEDULE BUT ARE STILL REQUIRED IN THE ROOM.
7. UNLESS OTHERWISE NOTED AND UNLESS FACTORY FINISHED, ALL EXPOSED SURFACES OF CMU, CONCRETE, PLASTER, WOOD, GYPSUM BOARD, HOLLOW METAL, HARDWOODS, MISC. METALS ETC., ARE TO RECEIVE PRIME AND FINISH COATS OF PAINT OR CLEAR FINISH AS SPECIFIED AND IN COLORS AS SELECTED BY ARCHITECT. EXCLUDED FROM THIS IS BRICK.
8. ALL OUTSIDE CORNERS OF INTERIOR CONCRETE MASONRY UNITS (CMU) ARE TO BE BULLNOSED UNLESS NOTED OTHERWISE.
9. CALL BEFORE YOU DIG. BEFORE DIGGING CONTRACTOR SHALL CALL 1-800-242-1776 TO HAVE UTILITIES IDENTIFY UNDERGROUND LOCATION OF ALL SERVICE LINES.
10. ALL WORK PERTAINING TO THESE DRAWINGS SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND IN AGREEMENT WITH ALL AGENCIES HAVING JURISDICTION.
11. THE CONTRACTOR IS RESPONSIBLE TO SECURE ALL PERMITS, TO OBTAIN APPROVALS AS REQUIRED AND COORDINATE INSPECTION WITH LOCAL BUILDING INSPECTOR. ALL PERMIT AND APPLICATION FEES WILL BE PAID BY THE OWNER AND DELIVERED BY THE CONTRACTOR.
12. DRAWINGS AND SPECIFICATIONS COMPLEMENT EACH OTHER. WORK NOT SHOWN ON DRAWING BUT CALLED FOR IN THE SPECIFICATIONS IS STILL REQUIRED, AND ALL WORK NOT CALLED FOR IN SPECIFICATIONS, BUT CALLED OUT OR SHOWN IN DRAWINGS IS STILL REQUIRED.
13. THE OWNER WILL REMOVE AND RE-INSTALL ALL MOVEABLE EQUIPMENT. EACH CONTRACTOR IS RESPONSIBLE TO REMOVE, STORE AND RE-INSTALL EXISTING BUILT-IN EQUIPMENT REQUIRED TO PERFORM THEIR WORK UNLESS NOTED OTHERWISE.
14. IN ACCORDANCE WITH NJAC 5:23-6.6(i), ALL MATERIALS AND METHODS USED SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED IN N.J.A.C. 5:23-6.8, MATERIALS AND METHODS.
15. WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED IN ACCORDANCE WITH THE FIRE AND/OR SMOKE PROTECTED ASSEMBLY MARKING DETAIL. REFER TO G003 FOR DETAIL.

MATERIAL LEGEND



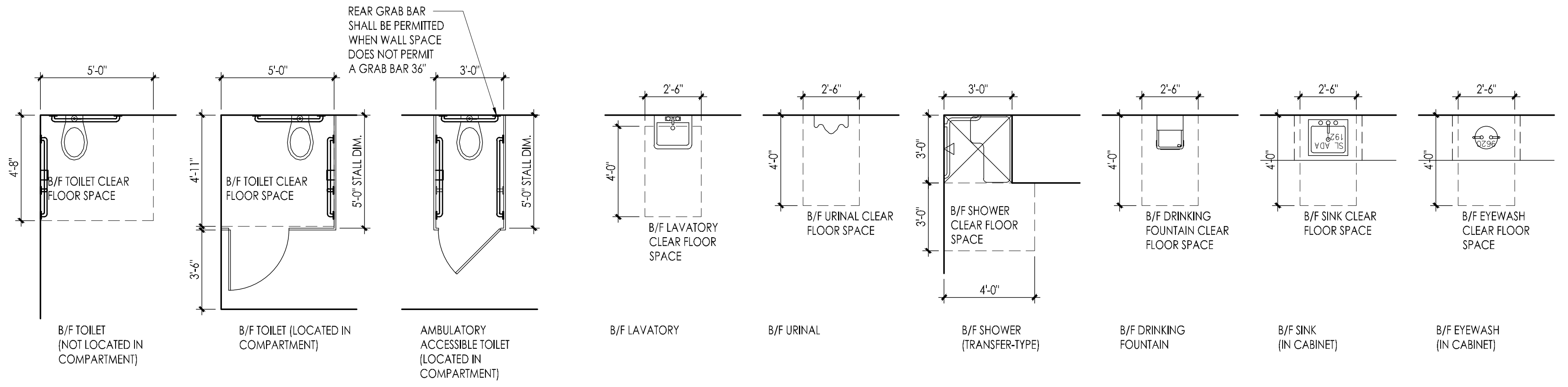
SYMBOL LIST


XX
AXXX
section number
WALL SECTION
drawing number
detail number
DETAIL INFORMATION
drawing number
X
DEMOLITION NOTE REFERENCE TAG SEE DEMOLITION NOTES
WINDOW OR CURTAINWALL TYPE SEE WINDOW/CURTAINWALL SCHEDULE
DOOR NUMBER SEE DOOR SCHEDULE
BORROWED LIGHT NUMBER SEE DOOR SCHEDULE
XXXX
000
ROOM NAME/NUMBER
EQUIPMENT NUMBER OR LETTER
COLUMN NUMBER OR LETTER
elevation number
INTERIOR ELEVATION
drawing number


2'-0" AT CHILD B/F
2'-3" AT ADULT B/F
8"
9"
11"
KNEE CLEARANCE
9"
6"
TOE CLEARANCE
10" MAX.
2'-6"
4'-0" MAX.
1'-3" MIN.
HIGH AND LOW UNOBSTRUCTED SIDE REACH LIMITS
4'-0" MAX.
1'-3" MIN.
HIGH AND LOW UNOBSTRUCTED FORWARD REACH LIMITS
2'-0" MAX.
2'-6"
3'-10" MAX.
2'-10" MAX.
UNOBSTRUCTED SIDE REACH LIMITS
X
Y
2'-10" MAX.
Y=4'-0" WHEN X=1'-8" OR LESS Y=3'-8" WHEN X=1'-8" TO 2'-1" CLEAR KNEE SPACE BELOW OBSTRUCTION SHALL BE AT LEAST AS DEEP AS THE FORWARD REACH DISTANCE
OBSTRUCTED FORWARD REACH LIMITS
TOWELS
CUPS
FIRE ALARM PULL STATION
THERMOSTAT
SOAP
OUTLET
4'-0" TO OPERABLE PART
1'-3"
ACCESSIBLE CONTROLS & OPERATING MECHANISMS - FORWARD APPROACH
4'-0" CLEAR FLOOR SPACE
4'-6"
TELEPHONE PARALLEL APPROACH

BARRIER FREE CLEARANCE DETAILS

1/4" = 1'-01"

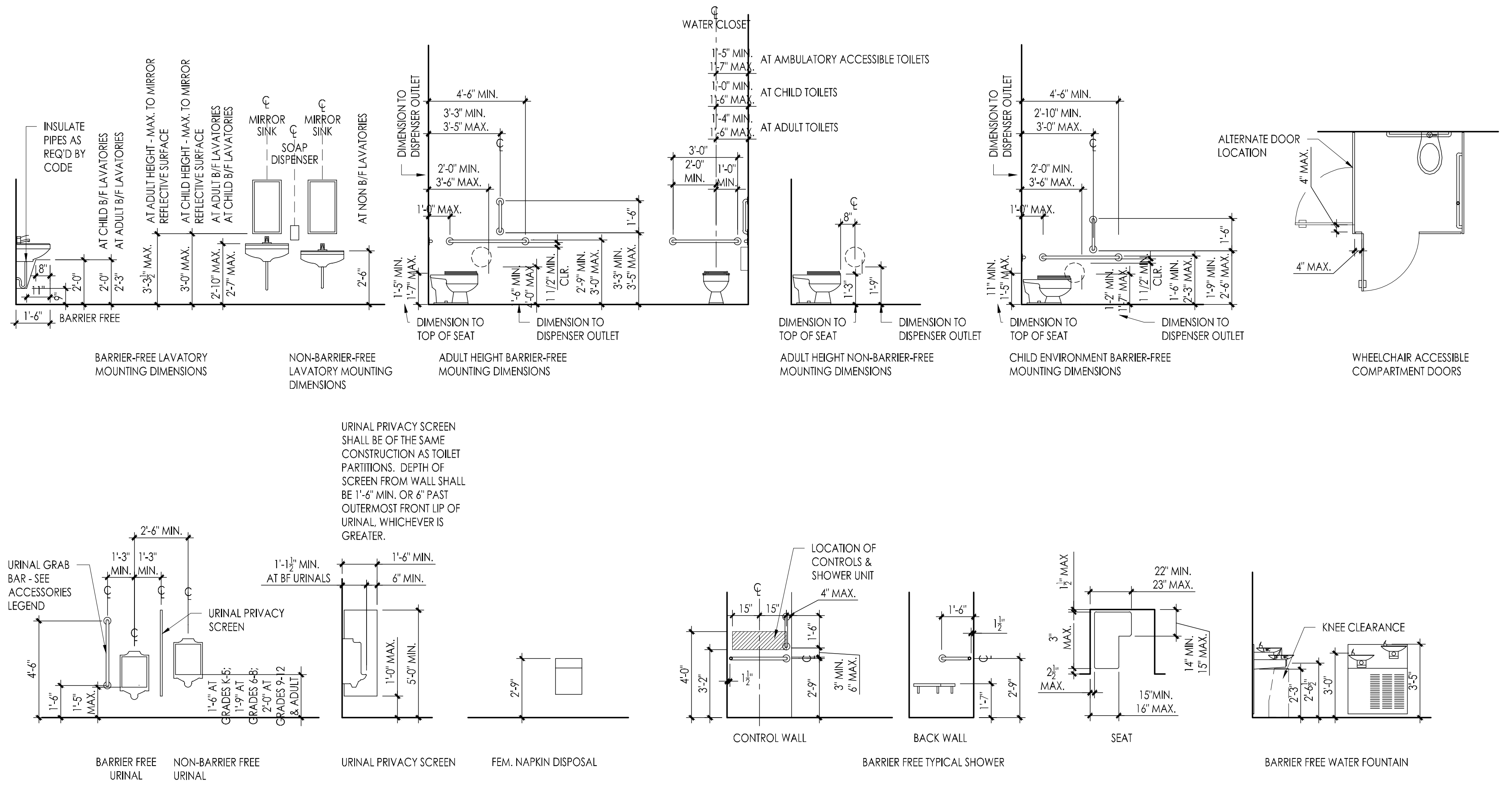

REAR GRAB BAR SHALL BE PERMITTED WHEN WALL SPACE DOES NOT PERMIT A GRAB BAR 36"
5'-0"
4'-8"
B/F TOILET CLEAR FLOOR SPACE
5'-0"
4'-11"
3'-6"
B/F TOILET CLEAR FLOOR SPACE
5'-0" STALL DIM.
3'-0"
5'-0" STALL DIM.
2'-6"
4'-0"
B/F LAVATORY CLEAR FLOOR SPACE
2'-6"
4'-0"
B/F URINAL CLEAR FLOOR SPACE
3'-0"
3'-0"
3'-0"
4'-0"
B/F SHOWER CLEAR FLOOR SPACE
2'-6"
4'-0"
B/F DRINKING FOUNTAIN CLEAR FLOOR SPACE
2'-6"
4'-0"
B/F SINK CLEAR FLOOR SPACE
2'-6"
4'-0"
B/F EYEWASH CLEAR FLOOR SPACE
B/F TOILET (NOT LOCATED IN COMPARTMENT)
B/F TOILET (LOCATED IN COMPARTMENT)
AMBULATORY ACCESSIBLE TOILET (LOCATED IN COMPARTMENT)
B/F LAVATORY
B/F URINAL
B/F SHOWER (TRANSFER-TYPE)
B/F DRINKING FOUNTAIN
B/F SINK (IN CABINET)
B/F EYEWASH (IN CABINET)

NOTES:

1. DIMENSIONS SHALL BE NET CLEAR DISTANCES MEASURED TO WALL FINISHES (EG CERAMIC TILE), TO FACE OF TOILET PARTITIONS AND TO EDGES OF ADJACENT FIXTURES, CABINETS, ETC.
2. ALL DIMENSIONS ARE MINIMUM UNLESS NOTED OTHERWISE.
3. INSTALLATIONS SHALL COMPLY WITH ALL PROVISIONS OF ICC-ANSI A117 . 1 - 2009, INCLUDING BUT NOT LIMITED TO:
   - 3.1. SECTION 602 (DRINKING FOUNTAINS)
   - 3.2. SECTION 603 (TOILET AND BATHING ROOMS)
   - 3.3. SECTION 604 (WATER CLOSETS AND TOILET COMPARTMENTS)
   - 3.4. SECTION 605 (URINALS)
   - 3.5. SECTION 606 (LAVATORIES AND SINKS)
   - 3.6. SECTION 608 (SHOWER COMPARTMENTS)
   - 3.7. SECTION 609 (GRAB BARS)
   - 3.8. SECTION 610 (SEATS)
4. CLEAR FLOOR SPACES MAY OVERLAP WHERE SPECIFICALLY PERMITTED IN ICC-ANSI A117 . 1 - 2009 CHAPTER 6.

TYPICAL TOILET ROOM FIXTURE CLEAR FLOOR SPACE REQUIREMENTS

1/4" = 1'-01"



TYPICAL TOILET ROOM FIXTURE / ACCESSORY MOUNTING HEIGHTS

1/4" = 1'-01"

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William D. Hopkins
Architect

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F V H D P C . C O M

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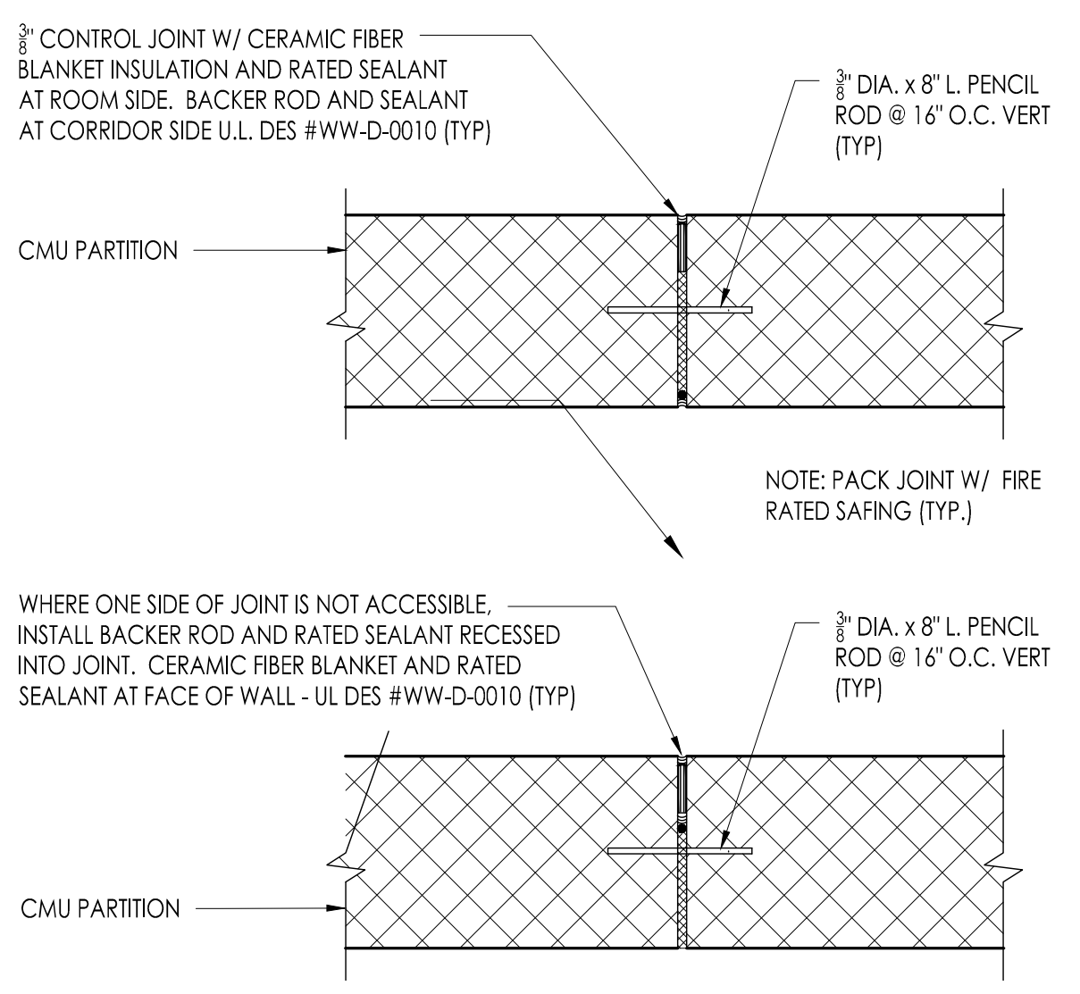
Drawing Name
ABBREVIATIONS AND GENERAL NOTES

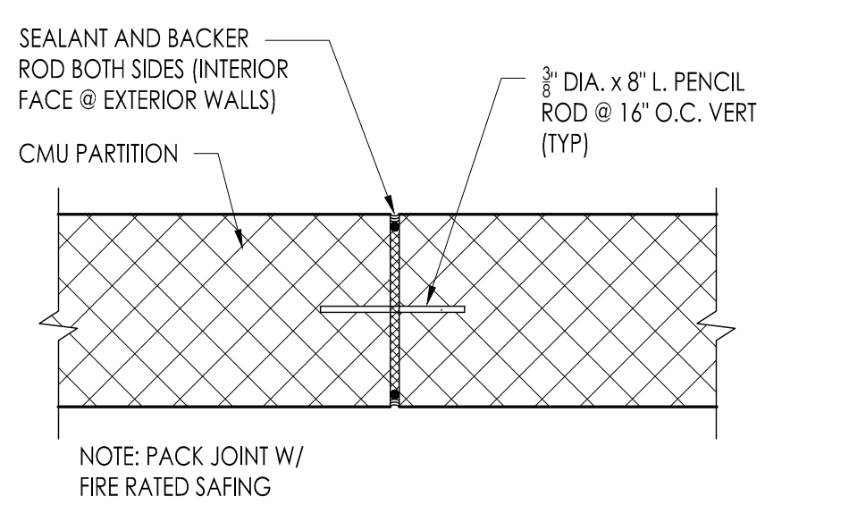
Revisions

No.	Date	Description

Drawing Number
G002


$\frac{3}{8}$" CONTROL JOINT W/ CERAMIC FIBER BLANKET INSULATION AND RATED SEALANT AT ROOM SIDE. BACKER ROD AND SEALANT AT CORRIDOR SIDE U.L. DES #WW-D-0010 (TYP)
$\frac{3}{8}$" DIA. x 8" L. PENCIL ROD @ 16" O.C. VERT (TYP)
CMU PARTITION
NOTE: PACK JOINT W/ FIRE RATED SAFING (TYP.)
WHERE ONE SIDE OF JOINT IS NOT ACCESSIBLE, INSTALL BACKER ROD AND RATED SEALANT RECESSED INTO JOINT. CERAMIC FIBER BLANKET AND RATED SEALANT AT FACE OF WALL - UL DES #WW-D-0010 (TYP)
$\frac{3}{8}$" DIA. x 8" L. PENCIL ROD @ 16" O.C. VERT (TYP)
CMU PARTITION

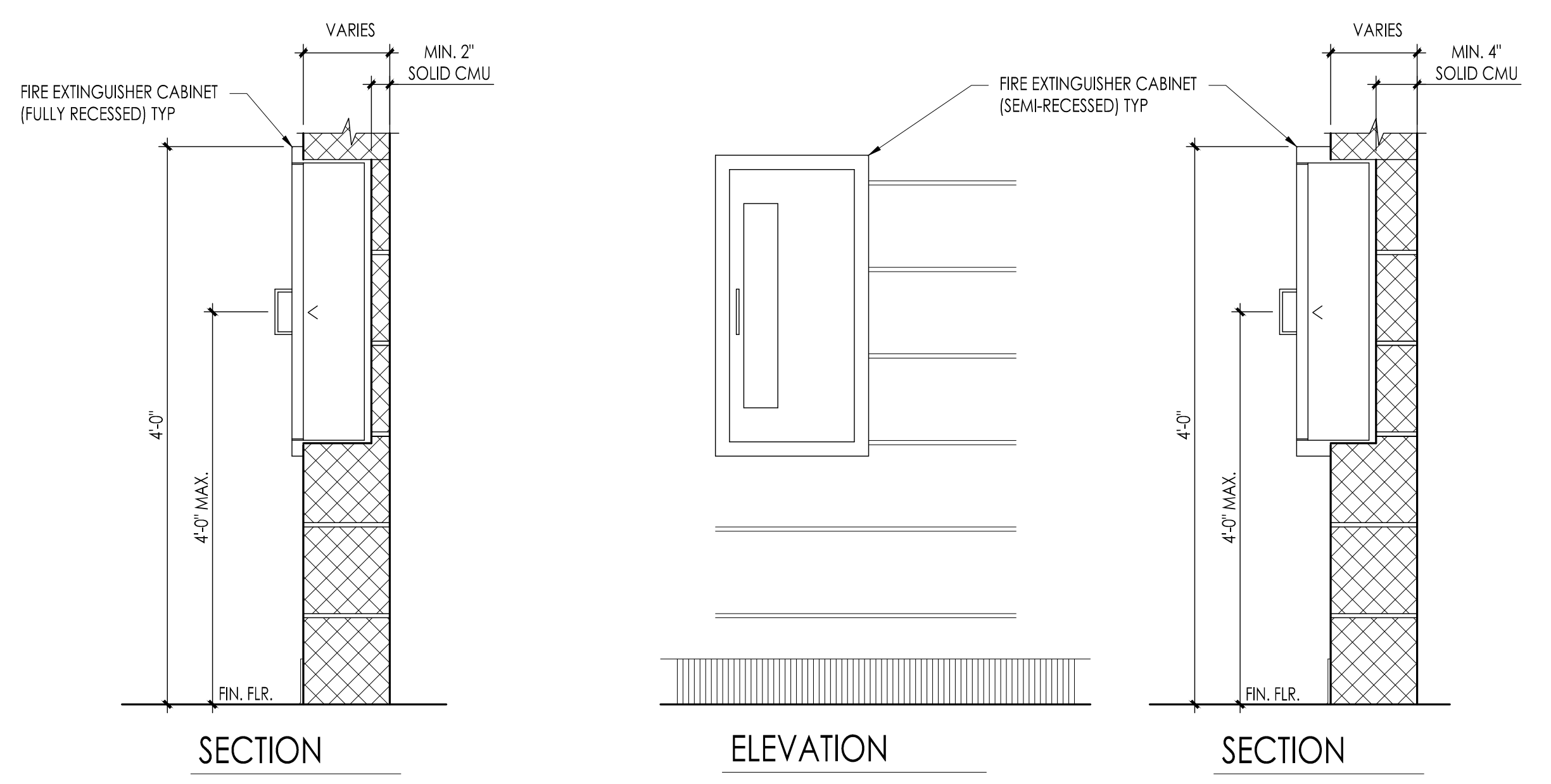
1 TYPICAL CONTROL JOINT (CJ) AT FIRE-RATED INTERIOR CMU WALL
1-1/2" = 1'-0"


SEALANT AND BACKER ROD BOTH SIDES (INTERIOR FACE @ EXTERIOR WALLS)
$\frac{3}{8}$" DIA. x 8" L. PENCIL ROD @ 16" O.C. VERT (TYP)
CMU PARTITION
NOTE: PACK JOINT W/ FIRE RATED SAFING

2 TYPICAL CONTROL JOINT (CJ) AT INTERIOR CMU WALL
1-1/2" = 1'-0"

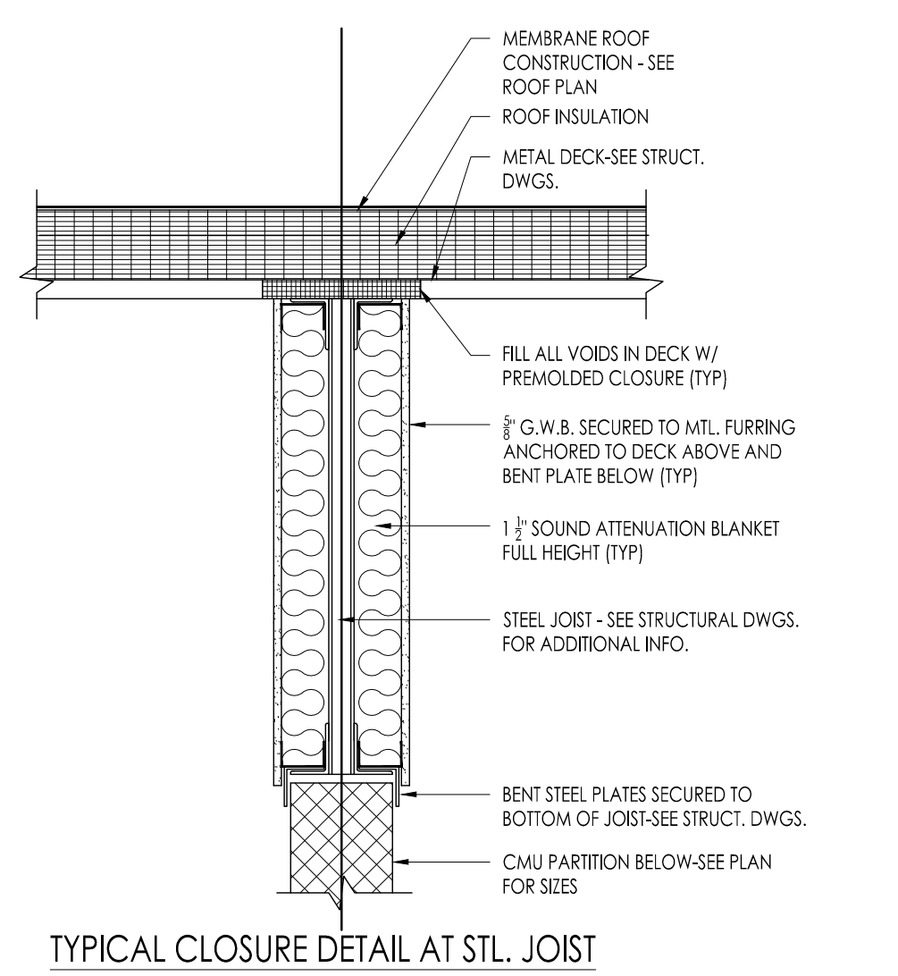
3 NOT USED
1-1/2" = 1'-0"

4 NOT USED
1-1/2" = 1'-0"



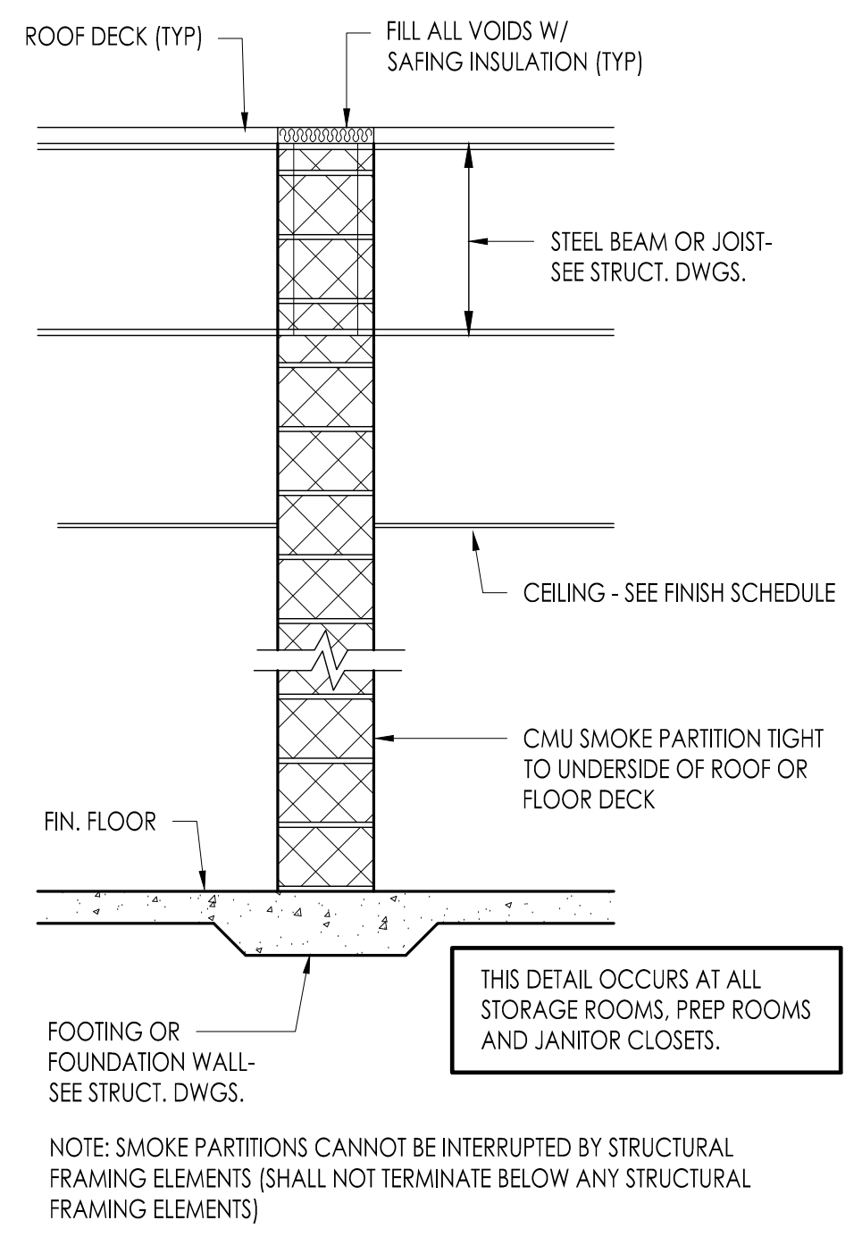
TYPICAL DETAIL FOR ALL SEMI-RECESSED FIRE EXTINGUISHER CABINETS IN (1) HOUR RATED MASONRY WALLS

5 FIRE EXTINGUISHER DETAIL TYPE FE-1
1" = 1'-0"


MEMBRANE ROOF CONSTRUCTION - SEE ROOF PLAN
ROOF INSULATION
METAL DECK-SEE STRUCT. DWGS.
FILL ALL VOIDS IN DECK W/ PREMOLDED CLOSURE (TYP)
$\frac{5}{8}$" G.W.B. SECURED TO MTL. FURRING ANCHORED TO DECK ABOVE AND BENT PLATE BELOW (TYP)
1 $\frac{1}{2}$" SOUND ATTENUATION BLANKET FULL HEIGHT (TYP)
STEEL JOIST - SEE STRUCTURAL DWGS. FOR ADDITIONAL INFO.
BENT STEEL PLATES SECURED TO BOTTOM OF JOIST-SEE STRUCT. DWGS.
CMU PARTITION BELOW-SEE PLAN FOR SIZES

TYPICAL CLOSURE DETAIL AT STL. JOIST & PARTITION CONSTRUCTION
N.T.S.

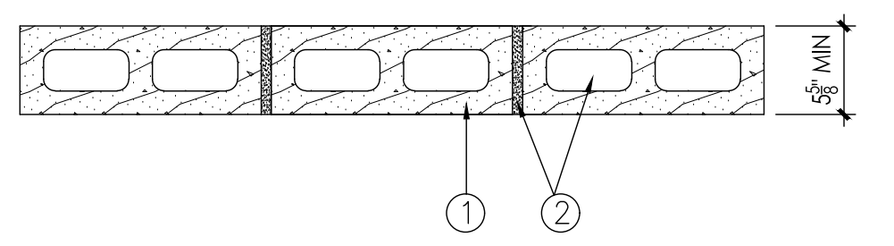
6 TYPICAL CLOSURE DETAIL AT STEEL JOINT & CMU PARTITION CONSTRUCTION
N.T.S.


ROOF DECK (TYP)
FILL ALL VOIDS W/ SAFING INSULATION (TYP)
STEEL BEAM OR JOIST-SEE STRUCT. DWGS.
CEILING - SEE FINISH SCHEDULE
CMU SMOKE PARTITION TIGHT TO UNDERSIDE OF ROOF OR FLOOR DECK
FIN. FLOOR
FOOTING OR FOUNDATION WALL-SEE STRUCT. DWGS.
THIS DETAIL OCCURS AT ALL STORAGE ROOMS, PREP ROOMS AND JANITOR CLOSETS.

NOTE: SMOKE PARTITIONS CANNOT BE INTERRUPTED BY STRUCTURAL FRAMING ELEMENTS (SHALL NOT TERMINATE BELOW ANY STRUCTURAL FRAMING ELEMENTS)

7 TYPICAL SMOKE PARTITION DETAIL
1/2" = 1'-0"

Design No. U906
Bearing Wall Rating - 2 HR
Nonbearing Wall Rating - 2 HR



1. Concrete Blocks*- Nominal 6 by 8 in., hollow or solid.
Classification D-2 (2 hr)
Anchor Concrete Products, Inc.
Empire Materials Co.
Florida Rock Industries, Inc.

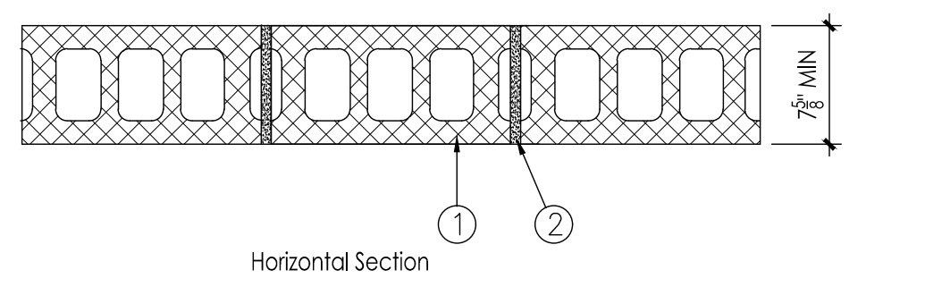
2. Mortar- Blocks laid in full bed of mortar, nom 3/8 in. thick, of not less than 2-1/4 and not more than 3 1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

*Bearing the UL Classification Marking

1-HOUR RATED CMU WALLS SHALL BE CONSTRUCTED SAME AS 2-HOUR RATED CMU WALLS (TYPICAL)

8 TYPICAL RATED CONSTRUCTION 6" CONCRETE MASONRY UNITS
N.T.S.

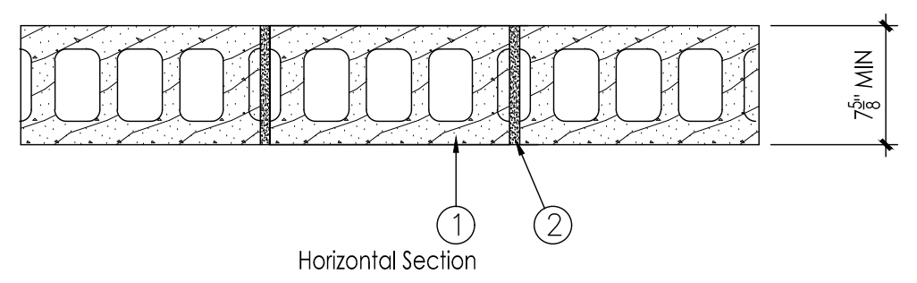
Design No. U904
Bearing Wall Rating - 3 HR
Nonbearing Wall Rating - 3 HR



1. Concrete Blocks* - Various Designs. Classifications C-3 (3hr).
See Concrete Block category for list of eligible manufacturers.
2. Mortar- Blocks laid in full bed of mortar, nom 3/8 in. thick, of not less than 2-1/4" and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

*Bearing the UL Classification Marking

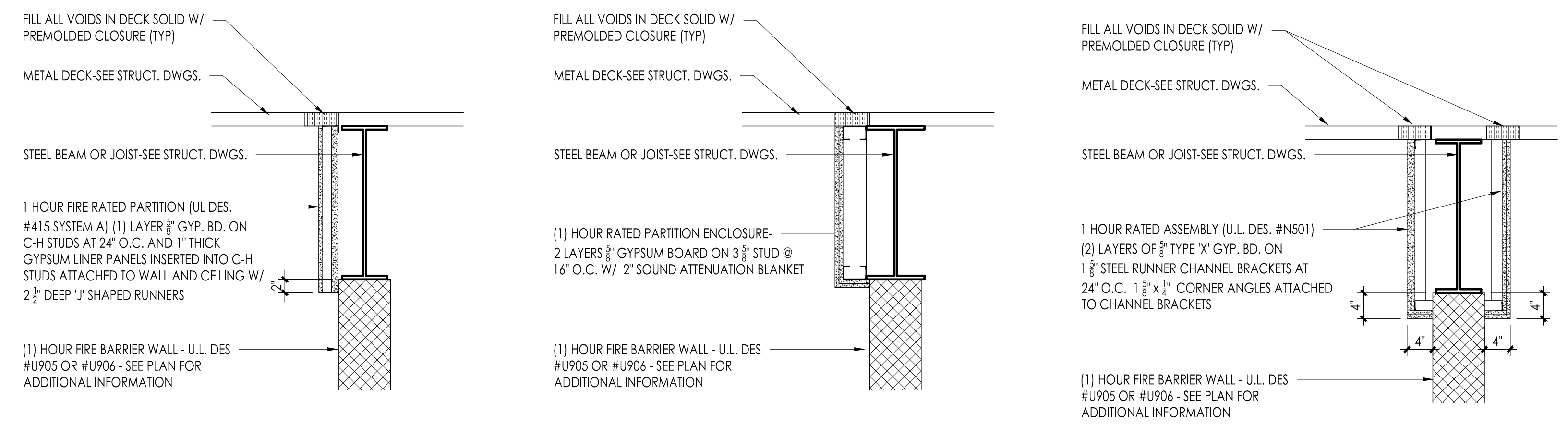
Design No. U905
Bearing Wall Rating - 2 HR
Nonbearing Wall Rating - 2 HR



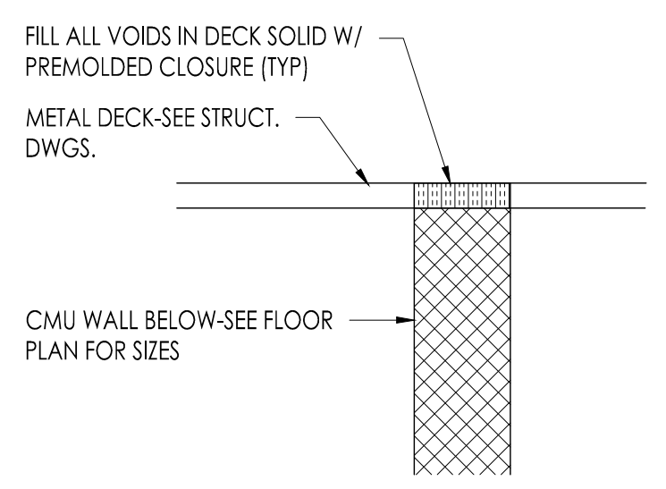
1. Concrete Blocks*- Various Designs. Classifications D-2 (2hr).
See Concrete Blocks category for list of eligible manufacturers.
2. Mortar- Blocks laid in full bed of mortar, nom 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

*Bearing the UL Classification Marking

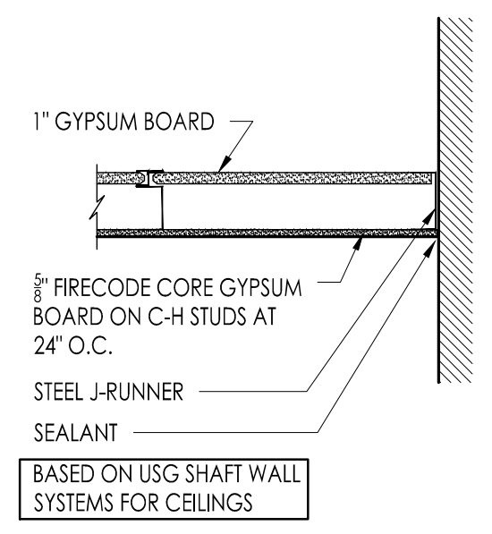
9 TYPICAL RATED CONSTRUCTION 8" CONCRETE MASONRY UNITS
N.T.S.


FILL ALL VOIDS IN DECK SOLID W/ PREMOLDED CLOSURE (TYP)
METAL DECK-SEE STRUCT. DWGS.
STEEL BEAM OR JOIST-SEE STRUCT. DWGS.
1 HOUR FIRE RATED PARTITION (UL DES. #415 SYSTEM A) (1) LAYER $\frac{5}{8}$" GYP. BD. ON C-H STUDS AT 24" O.C. AND 1" THICK GYPSUM LINER PANELS INSERTED INTO C-H STUDS ATTACHED TO WALL AND CEILING W/ 2 $\frac{1}{2}$" DEEP 'J' SHAPED RUNNERS
2"
(1) HOUR FIRE BARRIER WALL - U.L. DES #U905 OR #U906 - SEE PLAN FOR ADDITIONAL INFORMATION
FILL ALL VOIDS IN DECK SOLID W/ PREMOLDED CLOSURE (TYP)
METAL DECK-SEE STRUCT. DWGS.
STEEL BEAM OR JOIST-SEE STRUCT. DWGS.
(1) HOUR RATED PARTITION ENCLOSURE- 2 LAYERS $\frac{5}{8}$" GYPSUM BOARD ON 3 $\frac{5}{8}$" STUD @ 16" O.C. W/ 2" SOUND ATTENUATION BLANKET
(1) HOUR FIRE BARRIER WALL - U.L. DES #U905 OR #U906 - SEE PLAN FOR ADDITIONAL INFORMATION
FILL ALL VOIDS IN DECK SOLID W/ PREMOLDED CLOSURE (TYP)
METAL DECK-SEE STRUCT. DWGS.
STEEL BEAM OR JOIST-SEE STRUCT. DWGS.
1 HOUR RATED ASSEMBLY (U.L. DES. #N501) (2) LAYERS OF $\frac{5}{8}$" TYPE 'X' GYP. BD. ON 1 $\frac{5}{8}$" STEEL RUNNER CHANNEL BRACKETS AT 24" O.C. 1 $\frac{5}{8}$" x $\frac{1}{4}$" CORNER ANGLES ATTACHED TO CHANNEL BRACKETS
4"
4"
4"
4"
(1) HOUR FIRE BARRIER WALL - U.L. DES #U905 OR #U906 - SEE PLAN FOR ADDITIONAL INFORMATION

10 TYPICAL CLOSURE DETAIL AT STEEL BEAM & 1-HR FIRE BARRIER ASSEMBLY
3/4" = 1'-0"


FILL ALL VOIDS IN DECK SOLID W/ PREMOLDED CLOSURE (TYP)
METAL DECK-SEE STRUCT. DWGS.
CMU WALL BELOW-SEE FLOOR PLAN FOR SIZES

11 TYPICAL CLOSURE DETAIL AT METAL DECK & 1-HR FIRE BARRIER ASSEMBLY
3/4" = 1'-0"


1" GYPSUM BOARD
$\frac{5}{8}$" FIRECODE CORE GYPSUM BOARD ON C-H STUDS AT 24" O.C.
STEEL J-RUNNER
SEALANT
BASED ON USG SHAFT WALL SYSTEMS FOR CEILINGS

12 1-HR RATED CEILING SYSTEM
3/4" = 1'-0"

LOOSE LINTEL SCHEDULE

(FOR 4", 8", 12" & 16" WALLS)

MASONRY OPENING	LINTEL SIZE	REMARKS
UP TO 4'-0"	L-3 1/2" X 3 1/2" X 1/4"	
4'-1" TO 6'-0"	L-5" X 3 1/2" X 5/16"	
6'-1" TO 8'-0"	L-6" X 3 1/2" X 5/16"	
OVER 8'-0"	W8 X 18 + >	

LOOSE LINTEL SCHEDULE

(FOR 6" WALLS)

2'-0" TO 6'-0"	WT7 X 11	
6'-1" TO 8'-0"	WT8 X 13	

NOTES:
1. UNLESS OTHERWISE SPECIFIED ON DRAWINGS PROVIDE & INSTALL LINTELS FOR ALL SQUARE HEAD MASONRY OPENINGS IN ALL MASONRY WALLS IN ACCORDANCE WITH THE FOLLOWING SCHEDULES & COMMENTS.
2. PROVIDE ONE (1) ANGLE FOR EACH 4" OF MASONRY WIDTH.
3. BEAR LINTELS 6" MINIMUM EACH SIDE OF OPENING.
4. ALL LINTELS IN EXTERIOR WALLS TO BE GALVANIZED.
5. WHERE OPENINGS LOCATED NEXT TO COLUMNS OR BEAMS, ATTACH TO STRUCTURAL STEEL, CONNECTION NOT TO PROTRUDE INTO OPENING.
6. CONSULT ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR OPENING SIZE & LOCATION.

RESPONSIBILITY CHART

MATERIAL	FURNISHED BY	INSTALLED BY
EQUIPMENT CURB	HVAC CONTRACTOR	HVAC CONTRACTOR
EQUIPMENT FLASHING	GENERAL CONTRACTOR	GENERAL CONTRACTOR
COUNTER FLASHING	HVAC CONTRACTOR	GENERAL CONTRACTOR

NOTE:
THIS CHART SHALL ONLY APPLY AT CONDITIONS OF NEW ROOF CONSTRUCTION WHERE THERE IS A GENERAL PRIME CONTRACTOR AND AN HVAC PRIME CONTRACTOR CONTRACTED FOR THE PROJECT.

FIRE-RATED PENETRATION CHART

CONCRETE OR BLOCK WALLS

TYPE OF PENETRATE	FIRE RATING	UL CLASSIFIED SYSTEM
CIRCULAR BLANK OPENINGS	1	CAJ 0055, CAJ 0070
	2	CAJ 0055, CAJ 0070
	3	CAJ 0055
SINGLE METAL PIPES OR CONDUIT	1	CAJ 1226, WJ 1021
	2	CAJ 1226, WJ 1021
	3	CAJ 1226, WJ 1041, WJ 1042
SINGLE NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP, ENT)	1	CAJ 2109, CAJ 2098, CAJ 2167
	2	CAJ 2109, CAJ 2098, CAJ 2167
	3	CAJ 2109, CAJ 2098
SINGLE OR BUNDLED CABLES	1	WJ 3036, CAJ 3095, CAJ 3096
	2	WJ 3036, CAJ 3095, CAJ 3096
	3	CAJ 3095, CAJ 3096
CABLE TRAY	1	WJ 4016, CAJ 4034, CAJ 4035
	2	WJ 4016, CAJ 4034, CAJ 4035
	3	CAJ 4034, CAJ 4035
SINGLE INSULATED PIPES	1	CAJ 5090, CAJ 5091, CAJ 5061
	2	CAJ 5090, CAJ 5091, CAJ 5061
	3	CAJ 5090, CAJ 5061
ELECTRICAL BUSWAY	1	CAJ 6006, CAJ 6017
	2	CAJ 6006, CAJ 6017
	3	CAJ 6006, CAJ 6017
NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022
	2	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022
	3	CAJ 7046, CAJ 7051
MIXED PENETRANTS	1	CAJ 8041, CAJ 8056, WJ 8007
	2	CAJ 8041, CAJ 8056, WJ 8007
	3	CAJ 8041, CAJ 8056, WJ 8007

CONCRETE FLOORS

TYPE OF PENETRANT	FIRE RATING	UL CLASSIFIED SYSTEM
CIRCULAR BLANK OPENINGS	1	FA 0006, CAJ 0055, CAJ 0070
	2	FA 0006, CAJ 0055, CAJ 0070
	3	FA 0006, CAJ 0055
SINGLE METAL PIPES OR CONDUIT	1	CAJ 1226, FA 1017
	2	CAJ 1226, FA 1017
	3	CAJ 1226, FA 1017
SINGLE NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP, ENT)	1	FA 2053, FA 2025, CAJ 2109, CAJ 2098, CAJ 2141, CAJ 2167, CBJ 2021
	2	FA 2053, FA 2025, CAJ 2109, CAJ 2098, CAJ 2141, CAJ 2167, CBJ 2021
	3	FA 2054, CAJ 2109, CAJ 2098
SINGLE OR BUNDLED CABLES	1	FA 3007, CAJ 3095, CAJ 3096
	2	FA 3007, CAJ 3095, CAJ 3096
	3	FA 3007, CAJ 3095, CAJ 3096
CABLE TRAY	1	CAJ 4034, CAJ 4035
	2	CAJ 4034, CAJ 4035
	3	CAJ 4034, CAJ 4035
SINGLE INSULATED PIPES	1	FA 5015, FA 5016, CAJ 5090, CAJ 5091, CAJ 5098
	2	FA 5015, FA 5016, CAJ 5090, CAJ 5091, CAJ 5098
	3	FA 5016, CAJ 5090
ELECTRICAL BUSWAY	1	CAJ 6006, CAJ 6017
	2	CAJ 6006, CAJ 6017
	3	CAJ 6006, CAJ 6017
NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	CAJ 7046, CAJ 7051
	2	CAJ 7046, CAJ 7051
	3	CAJ 7046, CAJ 7051
MIXED PENETRANTS	1	CAJ 8041, CAJ 8056
	2	CAJ 8041, CAJ 8056
	3	CAJ 8041, CAJ 8056

GYPSUM WALLBOARD ASSEMBLIES

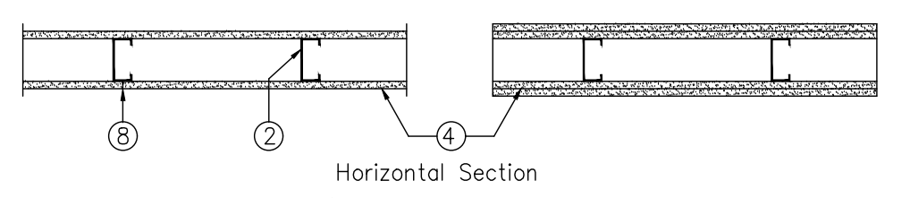
TYPE OF PENETRANT	FIRE RATING	UL CLASSIFIED SYSTEM
METAL PIPES OR CONDUIT	1	WL 1054, WL 1058, WL 1164
	2	WL 1054, WL 1058, WL 1164
NON-METALLIC PIPES OR CONDUIT	1	WL 2078, WL 2075, WL 2128
	2	WL 2078, WL 2075, WL 2128
SINGLE OR BUNDLED CABLES	1	WL 3065, WL 3111, WL 3112
	2	WL 3065, WL 3111, WL 3112
CABLE TRAY	1	WL 4011, WL 4019
	2	WL 4011, WL 4019
INSULATED PIPES	1	WL 5028, WL 5029, WL 5047
	2	WL 5028, WL 5029, WL 5047
NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	WL 7017, WL 7040, WL 7042
	2	WL 7040, WL 7042
MIXED PENETRANTS	1	WL 1095, WL 8013
	2	WL 1095, WL 8013

13 U.L. ASSEMBLIES AT CONCRETE OR BLOCK WALL PENETRATIONS
N.T.S.

14 U.L. ASSEMBLIES AT CONCRETE FLOOR PENETRATIONS
N.T.S.

15 U.L. ASSEMBLIES AT GYPSUM WALL BOARD PENETRATIONS
N.T.S.

Design No. U423
Bearing Wall Rating - 1 & 2 HR



1. Floor and Ceiling Runners (Not Shown) - Channel shaped, fabricated from min. 0.0329 in., bare metal thickness (No. 20 MSG) corrosion-protected steel, that provides a sound structural connection between steel studs and adjacent assemblies such as floor, ceiling and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in OC.
2. Steel Studs - Min. 0.0329 in. bare metal thickness (No. 20 MSG) corrosion-protected studs, min 3-1/2 in wide, cold formed, designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max. studs spacing shall not exceed 24 in. OC. Studs attached to floor and ceiling runners with 1/2 in long Type S-12 steel screws on both sides of the stud or by welded or bolted connections designed in accordance with the AISI specifications.
3. Lateral Support Members (Not Shown) - Where required for lateral support of studs, support shall be provided by means of steel straps, channels, or other similar means as specified in the design of a particular steel stud wall system.
4. Wallboard, Gypsum - Gypsum panels with beveled. square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multi-layer systems) staggered one stud cavity. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered when load is reduced to 90 percent of max stud capacity. When load is at 100 percent, horizontal edge joints and horizontal butt joints on opposite sides of studs staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multi-layer systems) staggered a min of 12 in. The thickness and number of layers and percent of design load for the 1 hour and 2 hour ratings are as follows:

Rating	No of Layers & Thickness of Panels	Percent of Design Load
1 Hour	1 Layer, 5/8" thick	100
2 Hours	2 Layers, 5/8" thick	80

5. Fasteners (Not Shown) - Type S-12 steel screws used to attach panels to runners and studs or furring channels. Single layer systems: 1 in long, spaced 8 in OC when panels are applied horizontally or 12 in OC when panels are applied vertically. Double layer systems: First layer- 1 in long spaced 16 in OC. Second layer- 1-5/8 in long spaced 16 in OC with screws offset 8 in from first layer.
6. Batts and Blankets (Optional, Not Shown) - Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. (See Floor Plan, Sections or Details for Thickness)
7. Furring Channels (Optional on One or Both Sides, Not Shown) - Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in OC. Flange portion attached to each intersecting stud with 1/2 in long Type S-12 panhead steel screws.
8. Joint Tape and Compound - Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in wide, embedded in first layer of compound over all joints of outer layers.
9. Caulking and Sealants (Not Shown) - A bead of acoustical sealant applied around the partition perimeter for sound control.

IN ALL LOCATIONS OF CORRIDOR AND PASSAGE WALLS, THE GYPSUM WALL BOARD SHALL BE IMPACT-RESISTANT ON THE CORRIDOR OR PASSAGE SIDE OF THE PARTITION.

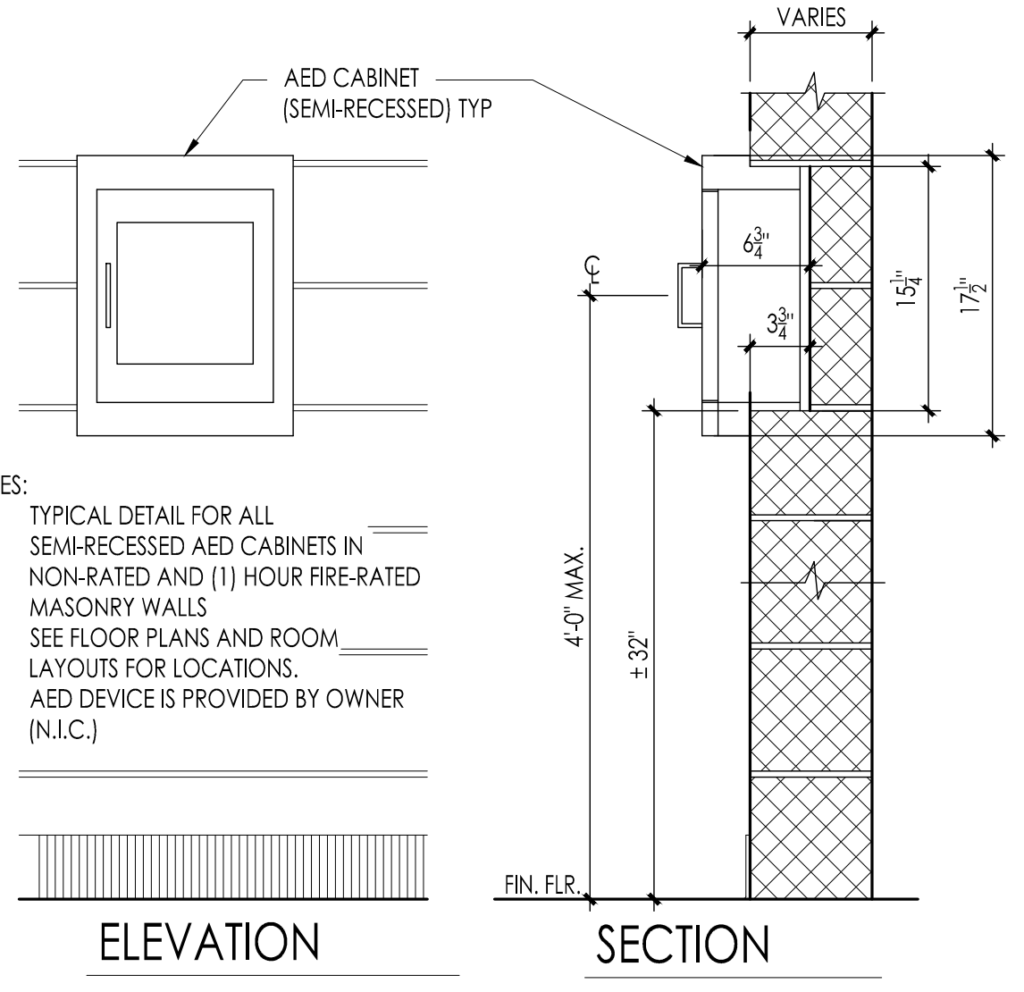
16 TYPICAL RATED CONSTRUCTION - GYPSUM BOARD & METAL STUDS - UL DESIGN #U423
N.T.S.

AED CABINET SIGNAGE NOTES

1. AED CABINET SIGNAGE BY GENERAL CONTRACTOR.
2. FOR AED CABINETS IN CORRIDORS, PROVIDE AED WALL SIGN, 14XS-AED, INSTALLED AT A RIGHT ANGLE TO WALL.
3. FOR AED CABINETS AT GYMNASIUM / MULTI-PURPOSE ROOM LOCATIONS, PROVIDE FLAT WALL MOUNTED SIGN 14S. REFER TO SPECIFIC LOCATIONS.

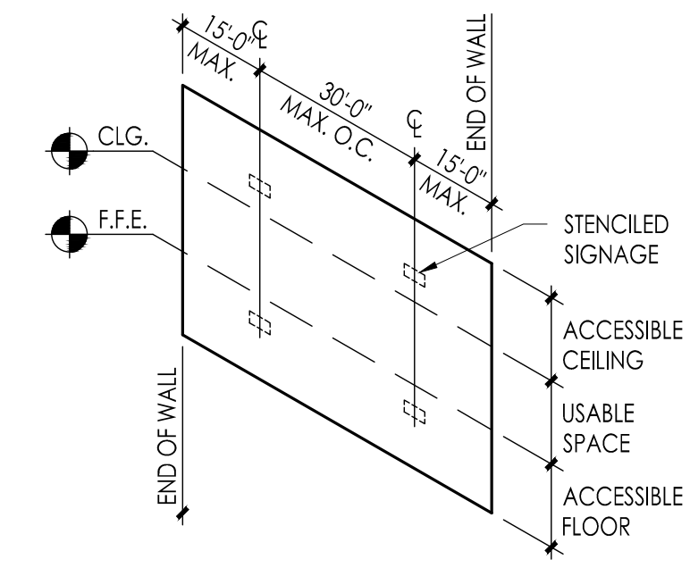
14XS-AED
RIGHT ANGLE WALL SIGN
8" x 10"

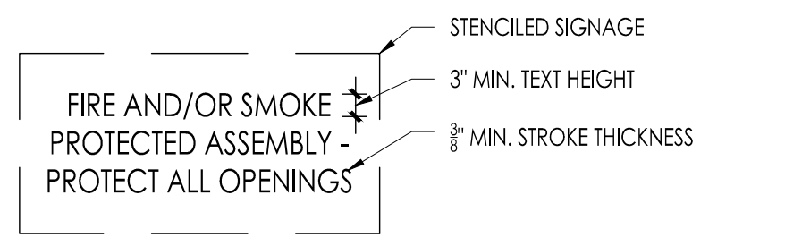
14S FLAT WALL SIGN
8" x 11"



NOTES:
1. TYPICAL DETAIL FOR ALL SEMI-RECESSED AED CABINETS IN NON-RATED AND (1) HOUR FIRE-RATED MASONRY WALLS
2. SEE FLOOR PLANS AND ROOM LAYOUTS FOR LOCATIONS.
3. AED DEVICE IS PROVIDED BY OWNER (N.I.C.)

5B SEMI-RECESSED AED CABINET DETAIL
1" = 1'-0"




FIRE AND/OR SMOKE PROTECTED ASSEMBLY - PROTECT ALL OPENINGS
STENCILED SIGNAGE
3" MIN. TEXT HEIGHT
$\frac{3}{8}$" MIN. STROKE THICKNESS

NOTES:
1. THE FOLLOWING INFORMATION APPLIES TO NEWLY CONSTRUCTED WALL ASSEMBLIES BASED UPON THE REQUIREMENTS OF SECTION 703.7 OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.
2. SIGNAGE SHALL BE LOCATED IN THE IMMEDIATE VICINITY ABOVE ANY ACCESSIBLE CONCEALED CEILING AND BELOW ANY ACCESSIBLE CONCEALED FLOOR.
3. SIGNAGE COLOR SHALL CONTRAST THE WALL COLOR
4. IF AN ACCESSIBLE SPACE IS PRESENT ON MORE THAN ONE SIDE OF A PROTECTED ASSEMBLY, SIGNAGE SHALL BE MARKED ON ALL SIDES.

17 FIRE AND/OR SMOKE PROTECTED ASSEMBLY MARKING DETAIL
Scale: N.T.S.

EXISTING FIRE ALARM SYSTEM NOTE:

IF ANY PORTION OF THE EXISTING FIRE ALARM SYSTEM MUST BE TAKEN OUT OF SERVICE FOR ANY LENGTH OF TIME, THE LOCAL FIRE MARSHAL MUST BE CONTACTED AND MUST APPROVE SHUTDOWN PLANS, PROCEDURES AND FIRE WATCH PLANS THAT WILL BE IMPLEMENTED.

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL CONCERNING THE EXISTING FIRE ALARM SYSTEM SHUTDOWN PLANS, PROCEDURES AND FIRE WATCH PLANS THAT WILL BE IMPLEMENTED FOR SYSTEM INTERRUPTIONS DURING CONSTRUCTION.

NOTE THAT TEMPORARILY COVERING EXISTING DETECTION DEVICES TO PREVENT ACCIDENTAL ALARM ACTIVATIONS DUE TO DUST AND DIRT CONSTITUTES A PARTIAL SHUTDOWN OF THE EXISTING FIRE ALARM SYSTEM.

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

William D. Hopkins
Architect
2/6/26
Date

FVHD architects planners
EST 1918
Fraytak Veisz Hopkins Duthie PC
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08618
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 19453
FVHDPC.COM

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2
Project Date
02.06.2026
Checked By
WDH
Drawn By
JEK
Scale
AS NOTED

Drawing Name
TYPICAL WALL SECTIONS AND FLASHING DETAILS

Revisions

No.	Date	Description

Drawing Number
G003

PLAN LEGEND

●	FE-1	FIRE EXTINGUISHER XXXX - SEE DTL. XXXX
●	FE-2	FIRE EXTINGUISHER XXXX - SEE DTL. XXXX
●	FE-3	FIRE EXTINGUISHER XXXX - SEE DTL. XXXX
●	FE-K	FIRE EXTINGUISHER XXXX - SEE DTL. XXXX
▬ ▬		2 HOUR FIRE WALL AS PER U.L. DES. # U905
▬ ▬		1 HOUR FIRE BARRIER ASSEMBLY AS PER U.L. DES. # U905 OR # U906

EGRESS LEGEND

— — >	PATH OF EGRESS TRAVEL
♿	BARRIER-FREE BUILDING ENTRANCE
XX	TRAVEL DISTANCE
XXXXX	ROOM SQUARE FOOTAGE

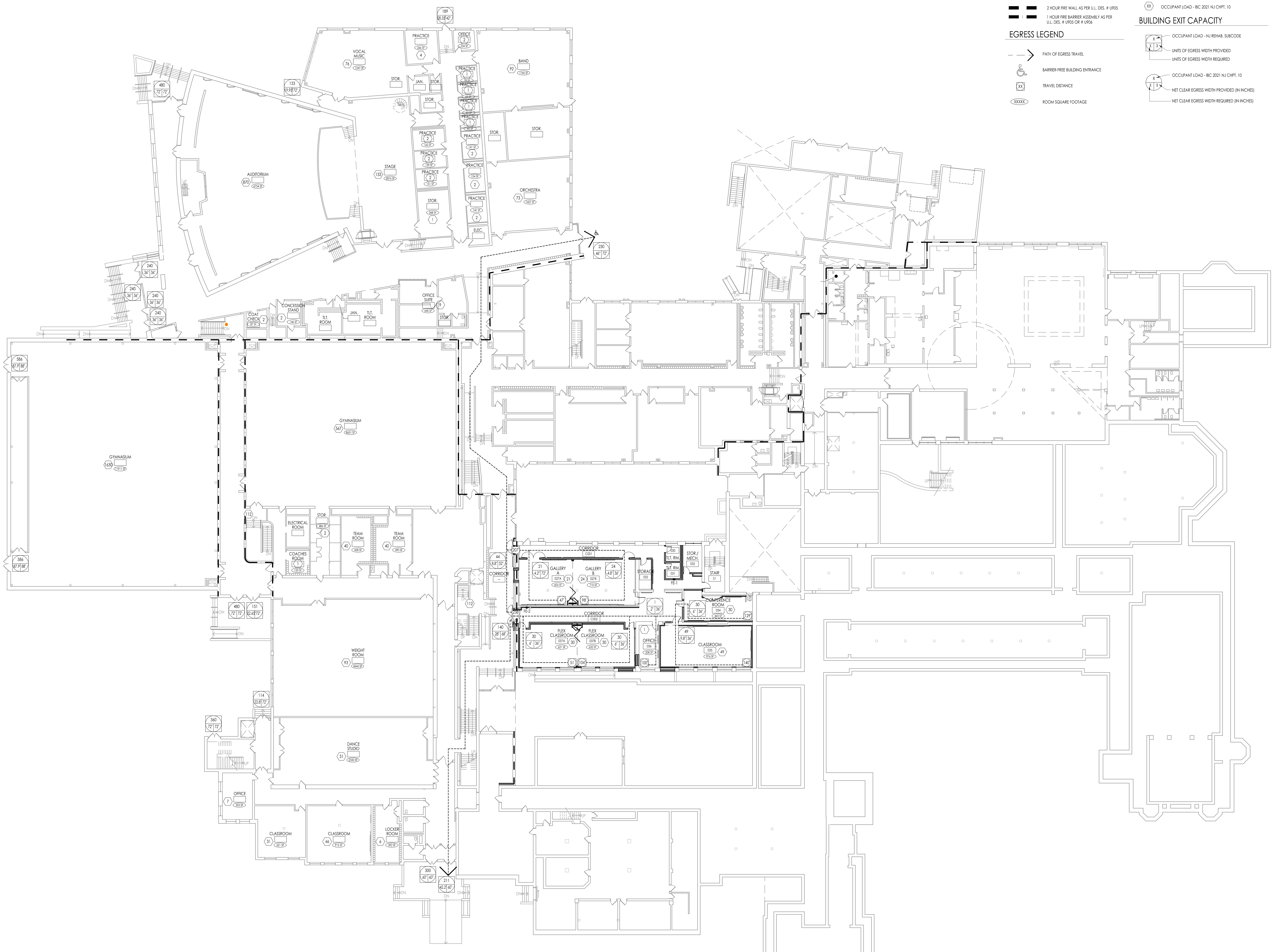
ROOM CAPACITY

XX	POSTED OCCUPANT LOAD - ALL ROOMS THAT ARE EXISTING, RENOVATED OR CONSTRUCTED AS ADDITIONS UNDER THE REHABILITATION SUBCODE SHALL HAVE POSTED OCCUPANT LOAD SIGNS - SEE DTL. XX/AXXX - NJ REHABILITATION SUBCODE
XX	OCCUPANT LOAD - IBC 2021 NJ CHPT. 10

BUILDING EXIT CAPACITY

X / X | X
- OCCUPANT LOAD - NJ REHAB. SUBCODE
- UNITS OF EGRESS WIDTH PROVIDED
- UNITS OF EGRESS WIDTH REQUIRED

X / X | X
- OCCUPANT LOAD - IBC 2021 NJ CHPT. 10
- NET CLEAR EGRESS WIDTH PROVIDED (IN INCHES)
- NET CLEAR EGRESS WIDTH REQUIRED (IN INCHES)



1 EGRESS PLAN
1/16"=1'-0"

WILLIAM D. HOPKINS III, AIA, LEED AP
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Date

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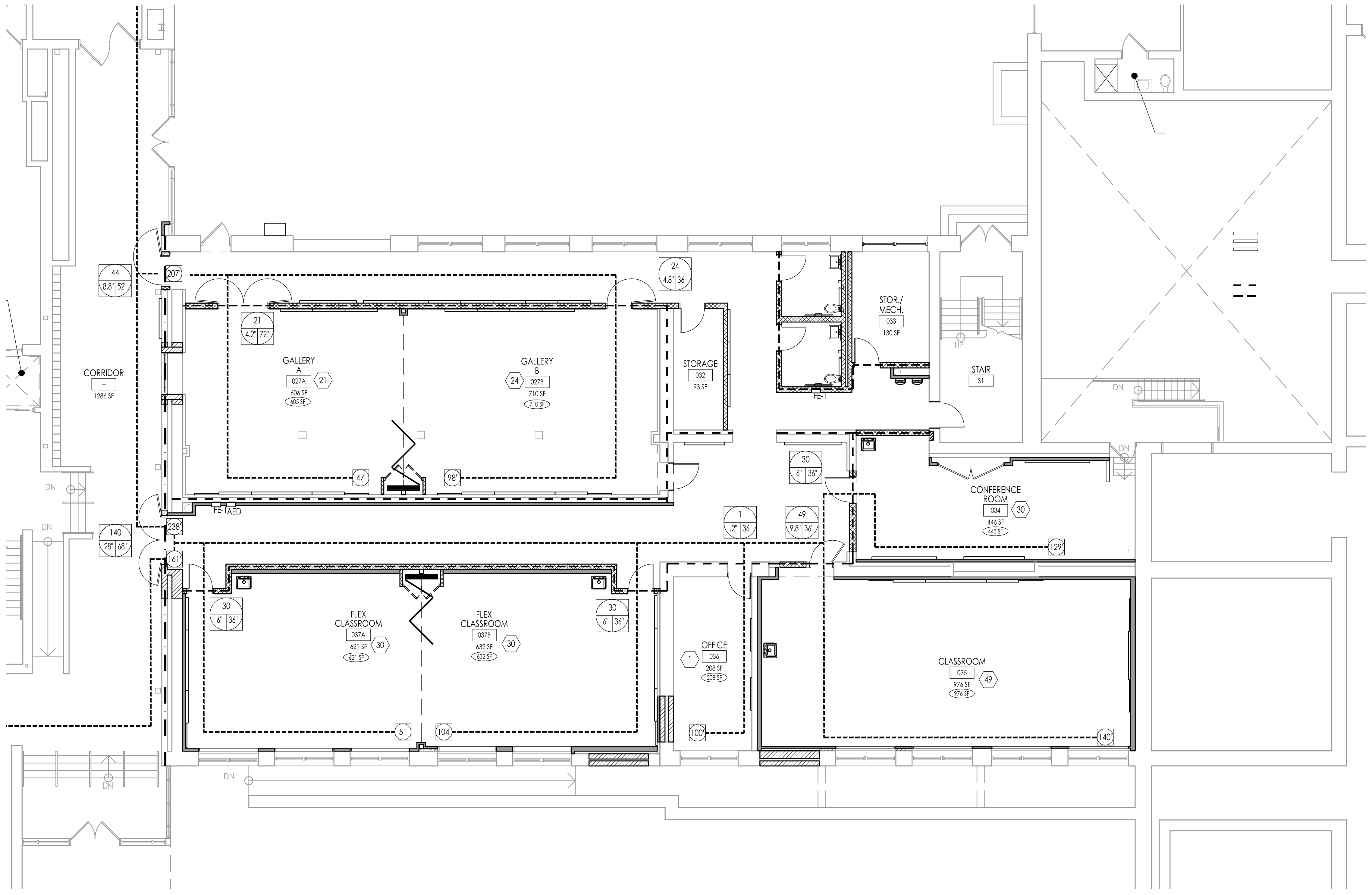
FVHDPC.COM

Project Name	Renovations to Princeton High School
Project Owner Name	Princeton Public Schools
Project Location	151 Moore Street, Princeton, NJ 08540
Project Number	5516A2
Project Date	02.06.2026
Checked By	WDH
Drawn By	JEK
Scale	AS NOTED
Drawing Name	CODE ANALYSIS AND EGRESS PLANS

Revisions

No.	Date	Description

Drawing Number
A001



① EGRESS PLAN
1/8"=1'-0"

PLAN LEGEND

● FE-1	FIRE EXTINGUISHER XXXX - SEE DTL. XXXX
● FE-2	FIRE EXTINGUISHER XXXX - SEE DTL. XXXX
● FE-3	FIRE EXTINGUISHER XXXX - SEE DTL. XXXX
● FE-K	FIRE EXTINGUISHER XXXX - SEE DTL. XXXX
▬ ▬	2 HOUR FIRE WALL AS PER U.L. DES. # U905
▬ | ▬	1 HOUR FIRE BARRIER ASSEMBLY AS PER U.L. DES. # U905 OR # U906

EGRESS LEGEND

— — >	PATH OF EGRESS TRAVEL
♿	BARRIER-FREE BUILDING ENTRANCE
XX	TRAVEL DISTANCE
XXXXX	ROOM SQUARE FOOTAGE

ROOM CAPACITY

XX	POSTED OCCUPANT LOAD - ALL ROOMS THAT ARE EXISTING, RENOVATED OR CONSTRUCTED AS ADDITIONS UNDER THE REHABILITATION SUBCODE SHALL HAVE POSTED OCCUPANT LOAD SIGNS - SEE DTL. XX/AXXX - NJ REHABILITATION SUBCODE
XX	OCCUPANT LOAD - IBC 2021 NJ CHPT. 10

BUILDING EXIT CAPACITY

X / X | X
- OCCUPANT LOAD - NJ REHAB. SUBCODE
- UNITS OF EGRESS WIDTH PROVIDED
- UNITS OF EGRESS WIDTH REQUIRED

X / X | X
- OCCUPANT LOAD - IBC 2021 NJ CHPT. 10
- NET CLEAR EGRESS WIDTH PROVIDED (IN INCHES)
- NET CLEAR EGRESS WIDTH REQUIRED (IN INCHES)

PROJECT CODE INFORMATION

THIS PROJECT WAS DESIGNED UNDER THE FOLLOWING CODES:

CONSTRUCTION CODE (ALTERATIONS) -	NEW JERSEY REHAB. SUBCODE 5:23-6
BUILDING SUBCODE -	INTERNATIONAL BUILDING CODE 2021 - NJ EDITION
BARRIER-FREE SUBCODE -	N.J.A.C. 5:23-7 AND ICC-ANSI A117.1-2017
PLUMBING SUBCODE -	NATIONAL STANDARD PLUMBING SUBCODE 2021
MECHANICAL SUBCODE -	INTERNATIONAL MECHANICAL CODE 2021
ELECTRICAL SUBCODE -	NATIONAL ELECTRICAL CODE 2020
FUEL GAS SUBCODE -	INTERNATIONAL FUEL GAS CODE 2021
ENERGY CONSERVATION SUBCODE -	ASHRAE 90.1 2019
EXISTING BUILDING CODE -	NJ REHABILITATION SUBCODE 5:23

BUILDING INFORMATION

DESCRIPTION
PROJECT SCOPE OF WORK INCLUDES ALTERATIONS TO THE EXISTING ART GALLERY, IT OFFICE, AND STORAGE TO ADD NEW CLASSROOMS, CONFERENCE ROOM, AND (2) TWO SINGLE OCCUPANT TOILET ROOMS.

CLASSIFICATION OF WORK   ALTERATIONS PER NJ REHABILITATION SUBCODE 5:23-6.6

EXISTING BUILDING CONSTRUCTION TYPE IS IIB - PARTIAL SPRINKLERED

APPLICABLE REHAB SUBCODE SECTIONS:

5:23-6.6 ALTERATIONS
(C) THE WORK SHALL NOT CAUSE ANY DIMINUTION OF EXISTING STRUCTURAL STRENGTH, SYSTEM CAPACITY OR MECHANICAL VENTILATION BELOW THAT WHICH EXISTS AT THE TIME OF APPLICATION FOR A PERMIT OR THAT WHICH IS REQUIRED BY THE APPLICABLE SUBCODES OF THE UNIFORM CONSTRUCTION CODE, WHICHEVER IS LOWER. THE REPLACEMENT OR ADDITION OF FIXTURES, EQUIPMENT OR APPLIANCES SHALL NOT INCREASE LOADS ON THESE SYSTEMS UNLESS THE SYSTEM IS UPGRADED IN ACCORDANCE WITH THE APPLICABLE SUBCODE OF THE UCC TO ACCOMMODATE THE INCREASED LOAD.

2. FIRE PROTECTION SYSTEM REMOVAL: ANY FIRE PROTECTION SYSTEM PROVIDING PARTIAL OR REDUNDANT PROTECTION ORIGINALLY INSTALLED TO PROTECT A SPECIAL HAZARD THAT NO LONGER EXISTS AND THAT IS NOT REQUIRED IN ACCORDANCE WITH THE CURRENT UNIFORM CONSTRUCTION CODE, IS ALLOWED TO BE REMOVED WITH THE WRITTEN APPROVAL OF THE FIRE SUBCODE OFFICIAL AND FIRE OFFICIAL. ALL DISCONNECTED EQUIPMENT AND DEVICES, SUCH AS PULL STATIONS, NOZZLES, DETECTORS, SPRINKLERS, SENSORS, PANELS AND HOSE CONNECTIONS, SHALL BE REMOVED SO AS NOT TO GIVE A FALSE INDICATION THAT THE STRUCTURE, AREA OR SPACE IS PROTECTED. (FIRE)

3. NO WORK SHALL BE UNDERTAKEN THAT DIMINISHES ACCESSIBILITY BELOW THAT WHICH IS REQUIRED BY CHAPTER 11 OF THE BUILDING SUBCODE. (BUILDING)

4. CONSTRUCTION MATERIALS USED AS PART OF AN ALTERATION PROJECT SHALL BE CONSISTENT WITH THE EXISTING CONSTRUCTION TYPE OR THE ALLOWABLE CONSTRUCTION TYPE, WHICHEVER IS LESS RESTRICTIVE. (PLAN REVIEW - BUILDING, FIRE. INSPECTION - BUILDING)

OCCUPANCY CLASSIFICATION & USE (IBC NJ EDITION CHPT. 3)

305.1 - EDUCATION GROUP E
OCCUPANCY - PUBLIC HIGH SCHOOL
USE GROUP - E - EDUCATIONAL

GENERAL BUILDING HEIGHTS & AREAS (IBC NJ EDITION CHPT. 5)

THE FLOOR PLAN AREA AND HEIGHT OF THE SCHOOL BUILDING IS NOT CHANGED UNDER THIS PROJECT, THEREFORE NO ANALYSIS OF THE EXISTING BUILDINGS HAS BEEN PROVIDED.

GENERAL BUILDING HEIGHTS & AREAS (IBC NJ EDITION CHPT. 5)

THE FLOOR PLAN AREA + THE HEIGHT OF THE SCHOOL BUILDING IS NOT CHANGED UNDER THIS PROJECT, THEREFORE NO ANALYSIS OF THE EXISTING BUILDING HAS BEEN PROVIDED.

CONSTRUCTION TYPE (IBC NJ EDITION CHPT. 6)

THE CONSTRUCTION TYPE OF THE SCHOOL BUILDING IS NOT CHANGED UNDER THIS PROJECT, THEREFORE NO ANALYSIS OF THE EXISTING BUILDINGS HAS BEEN PROVIDED.

FIRE & SMOKE PROTECTION (IBC NJ EDITION CHPT. 7)

FIRE-RESISTANT RATED CONSTRUCTION ELEMENTS:

NO FIREWALLS OR FIRE BARRIERS ARE ALTERED UNDER THIS PROJECT (IBC SECTIONS 706 AND 707).

ANY FIRE PARTITIONS ALTERED UNDER THIS PROJECT ARE REPLACED WITH NEW CONSTRUCTION MEETING THE REQUIREMENTS OF IBC 708.3. ANY OPENINGS IN FIRE PARTITIONS ARE PROTECTED IN ACCORDANCE WITH IBC 716.

PLUMBING FIXTURES (NSPC CHPT. 7)

USE GROUP 'E' (EDUCATIONAL) - ELEMENTARY SCHOOL -

SANITARY FIXTURES (STUDENTS) PER NSPC TABLE 7.21.1

WATER CLOSETS / URINALS

THE FUNCTIONAL CAPACITY OF THE SCHOOL IS NOT CHANGED UNDER THIS PROJECT. (2) TWO WATER CLOSETS HAVE BEEN ADDED IN THE EXISTING BUILDING UNDER THIS PROJECT. THEREFORE NO ANALYSIS OF PLUMBING FIXTURES HAS BEEN PROVIDED.

LAVATORIES

THE FUNCTIONAL CAPACITY OF THE SCHOOL IS NOT CHANGED UNDER THIS PROJECT. (2) TWO LAVATORIES HAVE BEEN ADDED IN THE EXISTING BUILDING UNDER THIS PROJECT. THEREFORE NO ANALYSIS OF PLUMBING FIXTURES HAS BEEN PROVIDED.

DRINKING FOUNTAINS

THE FUNCTIONAL CAPACITY OF THE SCHOOL IS NOT CHANGED UNDER THIS PROJECT. (2) TWO DRINKING FOUNTAINS HAVE BEEN ADDED IN THE EXISTING BUILDING UNDER THIS PROJECT. THEREFORE NO ANALYSIS OF PLUMBING FIXTURES HAS BEEN PROVIDED.

FIRE PROTECTION & LIFE SAFETY (IBC NJ EDITION CHPT. 9)

AUTOMATIC SPRINKLER SYSTEMS:

THE EXISTING BUILDING DOES NOT HAVE AN AUTOMATIC SPRINKLER SYSTEM.

FIRE EXTINGUISHER SCHEDULE:

THE FLOOR PLAN AREA OF THE SCHOOL IS NOT CHANGED UNDER THIS PROJECT. NO FIRE EXTINGUISHERS HAVE BEEN ADDED OR REMOVED IN THE EXISTING BUILDING UNDER THIS PROJECT. THEREFORE NO ANALYSIS OF FIRE EXTINGUISHERS HAS BEEN PROVIDED.

EXISTING FIRE ALARM SYSTEM NOTE:

IF ANY PORTION OF THE EXISTING FIRE ALARM SYSTEM MUST BE TAKEN OUT OF SERVICE FOR ANY LENGTH OF TIME, THE LOCAL FIRE MARSHAL MUST BE CONTACTED AND MUST APPROVE SHUTDOWN PLANS, PROCEDURES AND FIRE WATCH PLANS THAT WILL BE IMPLEMENTED.

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL CONCERNING THE EXISTING FIRE ALARM SYSTEM SHUTDOWN PLANS, PROCEDURES AND FIRE WATCH PLANS THAT WILL BE IMPLEMENTED FOR SYSTEM INTERRUPTIONS DURING CONSTRUCTION.

NOTE THAT TEMPORARILY COVERING EXISTING DETECTION DEVICES TO PREVENT ACCIDENTAL ALARM ACTIVATIONS DUE TO DUST AND DIRT CONSTITUTES A PARTIAL SHUTDOWN OF THE EXISTING FIRE ALARM SYSTEM.

MEANS OF EGRESS (IBC NJ EDITION CHPT. 10 & NJ REHABILITATION SUBCODE 5.23.6.11)

THE OCCUPANCY LOAD OF THE BUILDING REMAINS UNCHANGED.

NO ALTERATIONS PERFORMED ON THE FOLLOWING FLOORS: BASEMENT, FIRST FLOOR, AND SECOND FLOOR, THEREFORE NO EGRESS CALCULATIONS PERFORMED.

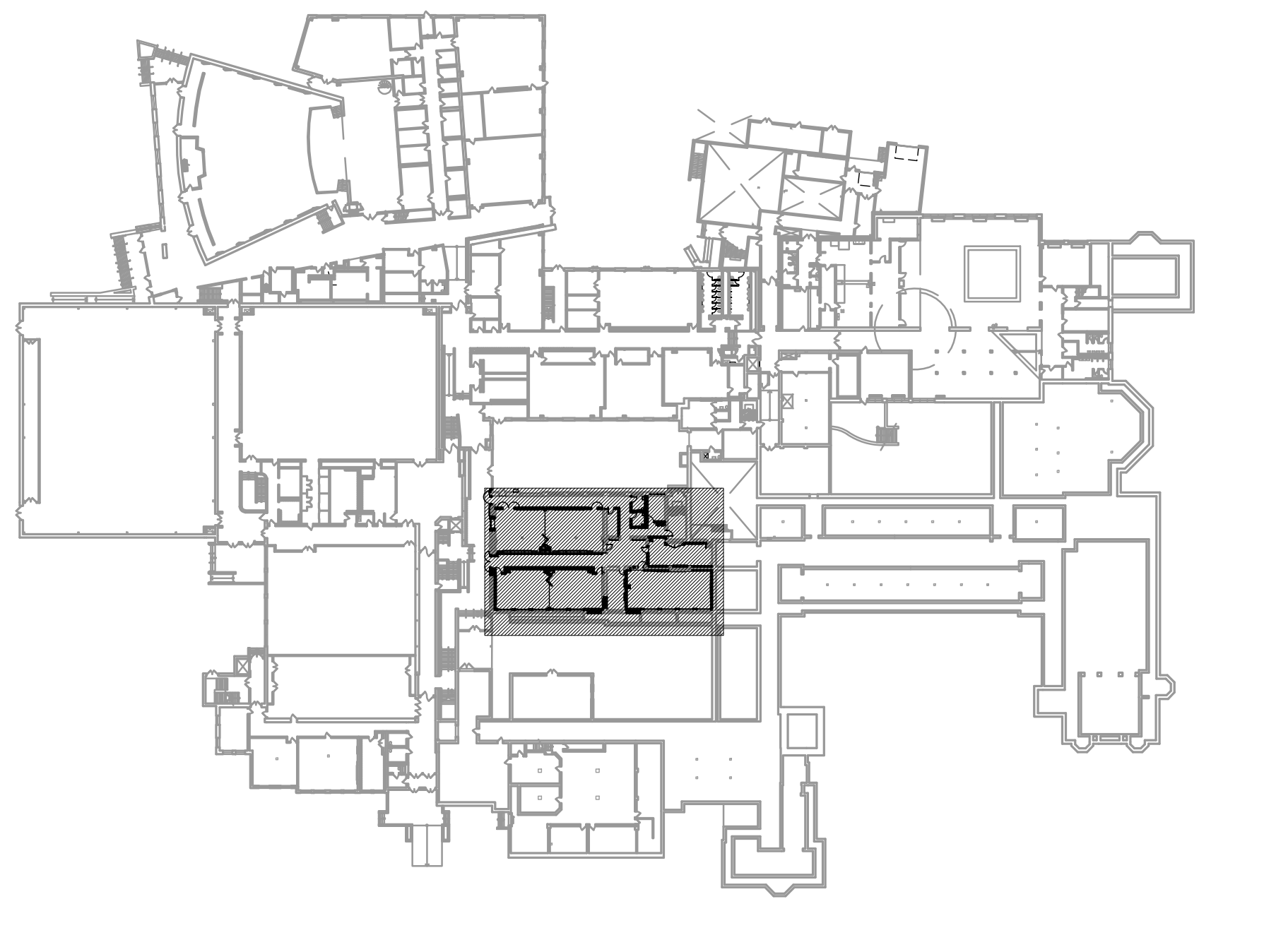
EGRESS CALCULATIONS FOR GROUND FLOOR:

ACCESSIBILITY (IBC NJ EDITION CHPT. 11)

ALL ROOMS ALTERED UNDER THIS PROJECT MEET THE REQUIREMENTS OF IBC CHPT. 11 AND ICC-ANSI A117.1.

ENERGY EFFICIENCY (IBC NJ EDITION CHPT. 13)

THE EXISTING EXTERIOR ENVELOPE OF THE BUILDING IS NOT ALTERED UNDER THIS PROJECT. THEREFORE NO ANALYSIS OF ENERGY EFFICIENCY HAS BEEN PROVIDED.



KEY PLAN - GROUND FLOOR
N.T.S.

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
WDH

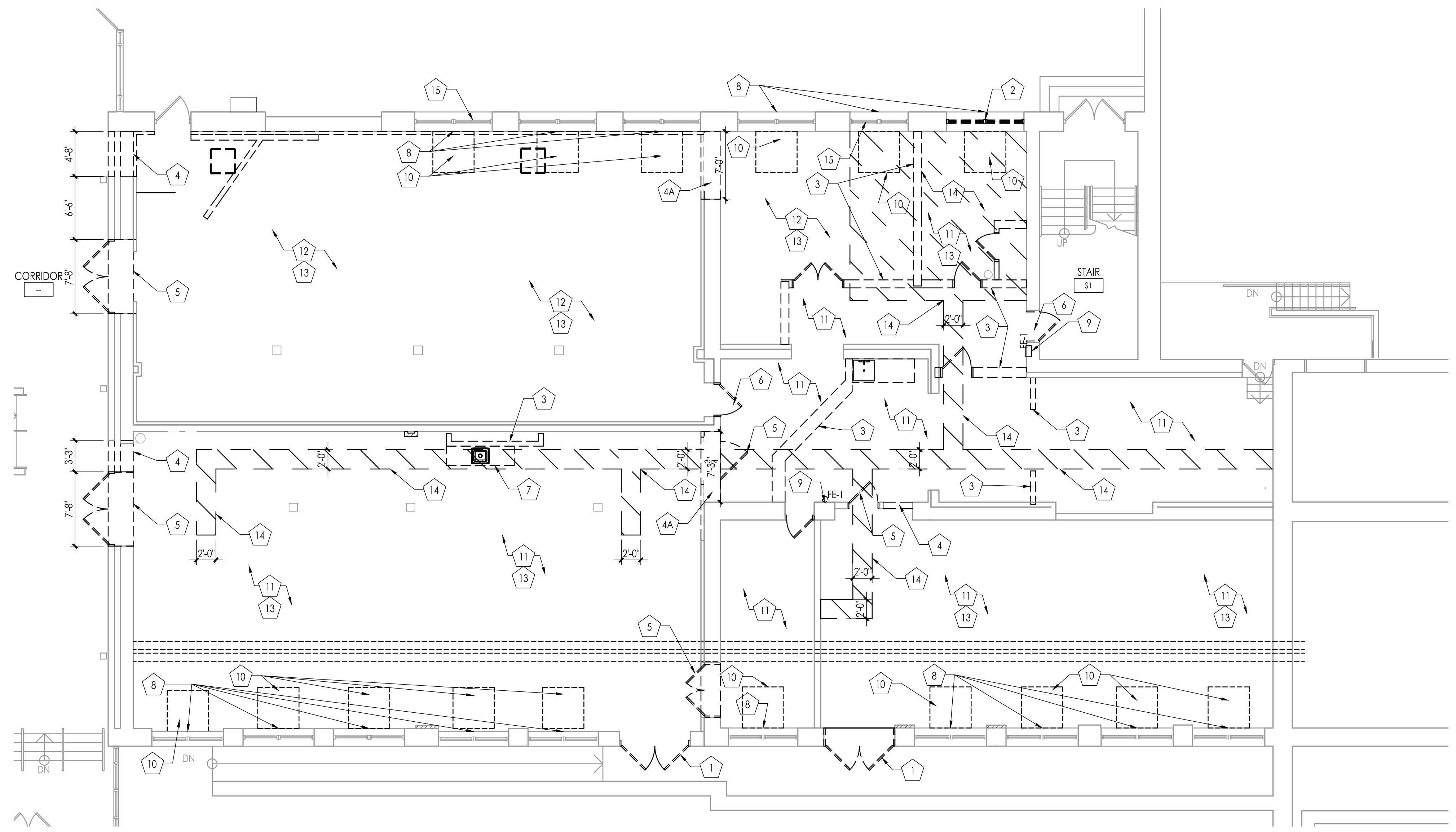
Drawn By
JEK

Scale
AS NOTED

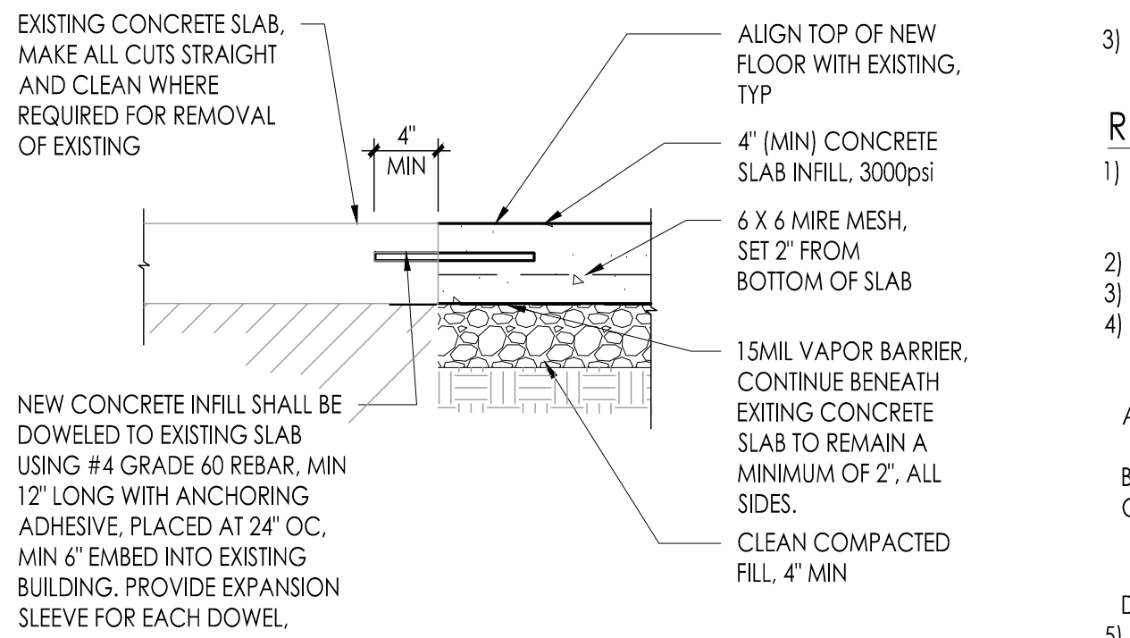
Drawing Name
CODE ANALYSIS AND EGRESS PLANS

Revisions		
No.	Date	Description

Drawing Number
A002



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


EXISTING CONCRETE SLAB, MAKE ALL CUTS STRAIGHT AND CLEAN WHERE REQUIRED FOR REMOVAL OF EXISTING
4" MIN
ALIGN TOP OF NEW FLOOR WITH EXISTING, TYP
4" (MIN) CONCRETE SLAB INFILL, 3000psi
6 X 6 MIRE MESH, SET 2" FROM BOTTOM OF SLAB
15MIL VAPOR BARRIER, CONTINUE BENEATH EXITING CONCRETE SLAB TO REMAIN A MINIMUM OF 2", ALL SIDES.
CLEAN COMPACTED FILL, 4" MIN
NEW CONCRETE INFILL SHALL BE DOWELED TO EXISTING SLAB USING #4 GRADE 60 REBAR, MIN 12" LONG WITH ANCHORING ADHESIVE, PLACED AT 24" OC, MIN 6" EMBED INTO EXISTING BUILDING. PROVIDE EXPANSION SLEEVE FOR EACH DOWEL, "GREEN STREAK" OR EQUAL

CONCRETE FLATWORK

1) ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE ACI BUILDING CODE.
2) ALL CONCRETE SHALL ATTAIN 3000psi COMPRESSIVE STRENGTH AT 28 DAYS.
3) FINISHES TO MATCH EXISTING ADJACENT CONCRETE FINISHES

REINFORCING

1) ALL REINFORCING BAR DETAILS SHALL CONFORM TO THE LATEST ACI CODE AND DETAILING MANUAL.
2) ALL BARS SHALL BE ASTM A-615 GRADE 60.
3) WELDED WIRE FABRIC SHALL BE ASTM A-185.
4) CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SURFACES, UNLESS SHOWN OTHERWISE, SHALL BE:
   A) UNIFORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER.
   B) BOTTOM SURFACE OF SLAB ON GRADE: 3"
   C) FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER : #5 BARS OR SMALLER: 1 $\frac{1}{2}$".
   D) EXTERIOR WALL SURFACES: 2"
5) ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY ARCHITECT BEFORE CONCRETE IS POURED.

CONCRETE SLAB INFILL
2
Scale: 1" = 1'-0"

DEMOLITION / RENOVATION NOTES:

SEE GENERAL NOTES ON DEMOLITION ON THIS DRAWING.

GENERAL NOTE: THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, SHELVING, PLUMBING FIXTURES, ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM THE SITE.

EXTERIOR / BUILDING

1. REMOVE EXISTING INDICATED DOOR AND FRAME OR LOUVER AND FRAME IN THEIR ENTIRETY, INCLUDING ALL ASSOCIATED HARDWARE (CLOSERS, STOPS, BUMPERS, ETC.). INFILL OPENING WITH NEW WALL CONSTRUCTION. SEE FLOOR PLAN AND WALL SECTIONS. SEE HVAC DRAWINGS FOR HVAC WORK REQUIRED. CONTRACTORS SHALL TAKE ALL NECESSARY STEPS TO ENSURE BUILDING SECURITY AND WEATHERTIGHTNESS. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT FINISHES, INCLUDING BRICK, TILE, BASE, ETC. **ALL HVAC WORK, INCLUDING DEMOLITION, PATCHING AND REPAIR, BY HVAC TRADE CONTRACTOR.**

2. REMOVE EXISTING WINDOW IN ITS ENTIRETY. INFILL OPENING WITH NEW LOUVER AND METAL PANEL - SEE A601. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE BUILDING SECURITY AND WEATHERTIGHTNESS. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL. MATCH EXISTING ADJACENT FINISHES.

WALLS

3. BRACE AND SHORE UP EXISTING ADJACENT WALL CONSTRUCTION TO REMAIN. DEMOLISH AND REMOVE INDICATED EXISTING WALLS IN THEIR ENTIRETY FULL HEIGHT. **NOTE: ALL EXISTING STRUCTURAL COLUMNS SHALL REMAIN.** PATCH ADJACENT FLOOR TO SUIT NEW CONDITIONS. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT FINISH.

4. BRACE AND SHORE UP EXISTING CONSTRUCTION TO REMAIN ABOVE OPENING. SAWCUT AND REMOVE EXISTING WALL CONSTRUCTION TO WIDTH INDICATED ON DEMOLITION PLAN AND TO FIRST MASONRY COURSE 8" ABOVE NEW DOOR HEAD HEIGHT. INFILL OPENING WITH NEW DOOR AND FRAME CONSTRUCTION AND LINTEL OF THICKNESS TO MATCH EXISTING ADJACENT WALL. NEW CMU SHALL BE TOOTHED INTO EXISTING ADJACENT CMU. CONSTRUCT WITH 1 HOUR RATED CONSTRUCTION (UL DES U905 OR U906) AT ALL CORRIDOR WALLS. SEE FLOOR PLAN AND DOOR SCHEDULE. FINISH ALL NEWLY EXPOSED SURFACES AND PATCH AND REPAIR ALL DAMAGE CAUSED BY RENOVATION TO MATCH EXISTING ADJACENT FINISH, INCLUDING BRICK, TILE, BASE, ETC. UNLESS SHOWN OTHERWISE ON PLANS.

4A. BRACE AND SHORE UP EXISTING CONSTRUCTION TO REMAIN ABOVE OPENING. SAWCUT AND REMOVE EXISTING WALL CONSTRUCTION TO WIDTH INDICATED ON DEMOLITION PLAN AND TO FIRST MASONRY COURSE 8" ABOVE NEW OPENING. REFER TO A102 AND A301 FOR ADDITIONAL INFORMATION. FINISH ALL NEWLY EXPOSED SURFACES AND PATCH AND REPAIR ALL DAMAGE CAUSED BY RENOVATION TO MATCH EXISTING ADJACENT FINISH, INCLUDING BRICK, TILE, BASE, ETC. UNLESS SHOWN OTHERWISE ON PLANS.

5. REMOVE INDICATED EXISTING DOORS, WINDOWS, LOUVERS OR SKYLIGHTS AND FRAMES IN THEIR ENTIRETY INCLUDING ANY ASSOCIATED FRAMING ABOVE. **ANY EXISTING STRUCTURAL ELEMENTS SHALL REMAIN.** INFILL OPENING WITH NEW CONSTRUCTION. CONSTRUCT WITH 1 HOUR RATED CONSTRUCTION (UL DES U905 OR U906) AT ALL CORRIDOR WALLS. SEE FLOOR PLAN. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT FINISHES, INCLUDING BRICK, TILE, BASE, PLASTER, ETC.

6. REMOVE INDICATED EXISTING DOORS AND FRAMES IN THEIR ENTIRETY, INCLUDING ASSOCIATED HARDWARE. SEE FLOOR PLAN AND DOOR SCHEDULE. FINISH ALL NEWLY EXPOSED SURFACES AND PATCH AND REPAIR ALL DAMAGE CAUSED BY RENOVATION TO MATCH EXISTING ADJACENT MATERIAL.

EQUIPMENT

7. REMOVE EXISTING CABINETS, EQUIPMENT, APPLIANCES, LOCKERS, CURTAINS, TOILET PARTITIONS, MIRRORS, BENCHES, SHELVES, ACOUSTIC WALL PANELS, GUARDRAILS, AND/OR HANDRAILS IN THEIR ENTIRETY. SEE GENERAL NOTE. PATCH, PLUG AND FILL ALL OPENINGS IN ADJACENT WALL, FLOOR, ETC. TO RESTORE TO A UNIFORM, FLUSH, CONTINUOUS SURFACE. FINISH ALL NEWLY EXPOSED SURFACES AND PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT FINISHES.

8. REMOVE EXISTING WOOD SILL AND ANCHORS IN THEIR ENTIRETY. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT FINISH. PROVIDE NEW SOLID SURFACE MATERIAL AND FINISH OF NEW WOOD PANELING SYSTEM.

9. REMOVE EXISTING F.E./F.E.C. IN ITS ENTIRETY. SALVAGE EXISTING F.E. FOR REUSE. INFILL OPENING, PATCH, PLUG, AND FILL ALL OPENINGS IN WALL TO RESTORE UNIFORM, FLUSH, AND CONTINUOUS SURFACE. FINISH TO MATCH ADJACENT FINISHES.

10. REMOVE EXISTING HVAC UNITS IN THEIR ENTIRETY. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT FINISHES, INCLUDING BRICK, CEILING, ETC. COORDINATE LOCATIONS WITH MEP DRAWINGS.

CEILINGS

11. REMOVE EXISTING CEILING CONSTRUCTION IN ITS ENTIRETY. PATCH, PLUG AND FILL ALL OPENINGS IN ADJACENT WALL, ETC. TO RESTORE A UNIFORM, FLUSH, CONTINUOUS SURFACE TO RECEIVE NEW FINISHES - SEE ROOM FINISH SCHEDULE. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL. MATCH EXISTING ADJACENT FINISH. ALL PLUMBING / HVAC / ELECTRICAL WORK, INCLUDING DEMOLITION, PATCHING AND REPAIR, BY RESPECTIVE TRADE CONTRACTOR.

12. CLEAN AND PREPARE EXISTING GYPSUM BOARD/PLASTER CEILING TO REMAIN TO RECEIVE NEW FINISH. SEE ROOM FINISH SCHEDULE FOR NEW FINISH.

FLOORS

13. REMOVE EXISTING BASE. REMOVE FLOOR FINISH DOWN TO CONCRETE SLAB, INCLUDING ALL ADHESIVES. CLEAN, PREPARE & LEVEL EXISTING FLOOR SLAB WITH SELF-LEVELING UNDERLAYMENT (COMPATIBLE WITH NEW FLOOR FINISHES) OVER ENTIRE SURFACE OF EXISTING FLOOR TO MAKE FLOOR LEVEL AND FLUSH. INSTALL NEW FLOOR FINISH AND BASE. SEE ROOM FINISH SCHEDULE AND SPECIFICATION SECTION -345-.

14. DEMOLISH CONCRETE SLAB IN ITS ENTIRETY AT HATCHED AREA. REMOVE SUBGRADE TO DEPTH REQUIRED FOR SANITARY LINE. COORDINATE WITH PLUMBING DRAWINGS. BACKFILL AND COMPACT SOILS, AND PROVIDE NEW CONCRETE SLAB INFILL, SEE DETAIL 2/A101. PATCH AND REPAIR ALL DAMAGE CAUSED BY RENOVATION TO MATCH EXISTING ADJACENT MATERIAL.

MISCELLANEOUS

15. REMOVE EXISTING WINDOW SASH. INFILL OPENING WITH NEW LOUVER - SEE A601 AND REFER TO MECHANICAL DRAWINGS. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE BUILDING SECURITY AND WEATHERTIGHTNESS. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL. MATCH EXISTING ADJACENT FINISHES.

GENERAL NOTES ON DEMOLITION:

A. ALL CONTRACTORS ARE ADVISED TO VISIT THE SITE AND VERIFY ALL AREAS AND CONDITIONS PRIOR TO SUBMITTING THEIR BIDS. THE CONTRACTOR MUST NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS IN WRITING AT LEAST SEVEN DAYS PRIOR TO THE RECEIPT OF BIDS. FAILURE TO SO NOTIFY THE ARCHITECT INDICATES THAT ANY ADDITIONAL COSTS ASSOCIATED WITH THE DISCREPANCIES AND / OR OMISSIONS ARE INCLUDED IN THE CONTRACTOR'S BID AND THAT NO CHANGE TO THE CONTRACT AMOUNT WILL BE MADE AFTER THE RECEIPT OF BIDS OR THE AWARD OF CONTRACTS.

B. ALL PLUMBING, MECHANICAL OR ELECTRICAL DISCONNECTS SHALL BE MADE BY THE RESPECTIVE TRADE SUBCONTRACTOR. ALL EQUIPMENT, DEVICES, FIXTURES, ETC. SHALL BE REMOVED FROM THE SITE BY THE RESPECTIVE SUBCONTRACTOR. NOTE: THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE DIMINISHED NOR SHALL EXISTING FIRE ALARM DEVICES BE REMOVED UNTIL NEW DEVICES ARE READY FOR SWITCHOVER.

C. UNLESS NOTED OTHERWISE ALL DEMOLITION MATERIAL SHALL BE REMOVED OFF SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

D. THERE ARE SOME SPECIFIC ITEMS DESIGNATED BY THE ARCHITECT FOR SALVAGE. THESE ITEMS ARE INTENDED FOR REUSE IN THE NEW CONSTRUCTION. THE CONTRACTOR MUST TAKE CARE IN THE REMOVAL AND STORAGE OF THESE ITEMS UNTIL THEY ARE NEEDED IN THE NEW CONSTRUCTION.

E. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT PORTIONS OF THE EXISTING CONSTRUCTION WHICH ARE ADJACENT TO AREAS TO BE DEMOLISHED. MAKE ALL CUTS AS NEATLY AS POSSIBLE. REFER TO FLOOR PLAN DRAWINGS FOR FINISHING OF THESE AREAS.

F. IF NOT OTHERWISE NOTED OR DETAILED, ALL SURFACES LEFT ROUGH OR UNFINISHED BY DEMOLITION AND WHICH ARE EXPOSED TO VIEW, SHALL BE PATCHED TO MATCH ADJACENT SURFACES AND FINISHED TO PROVIDE A UNIFORM APPEARANCE WITH REGARD TO SIZE, SHAPE, COLOR, TEXTURE AND MATERIAL.

G. THE CONTRACTOR SHALL PROVIDE A PHYSICAL BARRIER TO CONTAIN DUST AND DIRT AROUND THE DEMOLITION AREA AND SHALL MAKE EVERY EFFORT TO KEEP THE DEMOLITION SITE AND SURROUNDING AREAS AS CLEAN AS POSSIBLE. ALL TEMPORARY PARTITIONS SHALL BE 1 HOUR RATED CONSTRUCTION AND INCLUDE A DOOR.

H. NO DEMOLITION SHALL BEGIN UNTIL PROPER PROTECTION IS IN PLACE AND APPROVED BY ARCHITECT & OWNER TO ENSURE THE SAFETY OF THE PUBLIC, THE BUILDING OCCUPANTS, CONSTRUCTION WORKERS AND TO CONTAIN DUST AND DIRT WITHIN THE AREA OF DEMOLITION.

I. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REGARDING THE REMOVAL AND DISPOSAL OF ALL MATERIALS & EQUIPMENT.

J. THE CONTRACTOR SHALL PROVIDE PROTECTION AGAINST INCLEMENT WEATHER FOR THE EXISTING BUILDING DURING THE INTERIM PERIOD BETWEEN DEMOLITION AND THE COMPLETION OF NEW CONSTRUCTION.

K. THE CONTRACTORS SHALL TAKE INTO ACCOUNT THEIR METHODS OF CONSTRUCTION FOR THE NEW WORK AND INCLUDE IN THEIR BID THE COST OF ADDITIONAL DEMOLITION WORK NECESSARY TO FACILITATE THE CONSTRUCTION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE PARTIAL DEMOLITION OF WALLS AT THE POINTS WHERE NEW STEEL CONNECTS TO EXISTING BEAMS OR COLUMNS, THE AREA AROUND JOINTS BETWEEN NEW AND EXISTING CONSTRUCTION IN WALLS, FLOORS AND CEILINGS, AREAS OF SIDEWALK AND PAVING, ETC. MUCH OF THIS WORK IS INDICATED IN SECTIONS AND DETAILS RELATING TO THE NEW CONSTRUCTION.

L. THE DEMOLITION WORK SHOWN ON THIS PLAN IS INTENDED TO BE A GENERAL OVERVIEW OF MAJOR DEMOLITION WORK REQUIRED. IT IS NOT A COMPLETE AND EXCLUSIVE REPRESENTATION OF ALL DEMOLITION WORK NEEDED FOR EXECUTION OF THE PROJECT. WHEN PREPARING THEIR BIDS, CONTRACTORS MUST REFER TO THE FULL SET OF CONSTRUCTION DOCUMENTS FOR VARIOUS MISCELLANEOUS ITEMS WHICH MUST BE REMOVED AND/OR RELOCATED AS PART OF THE WORK.

M. ALL PRIME CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING - SEE SPECIFICATION.

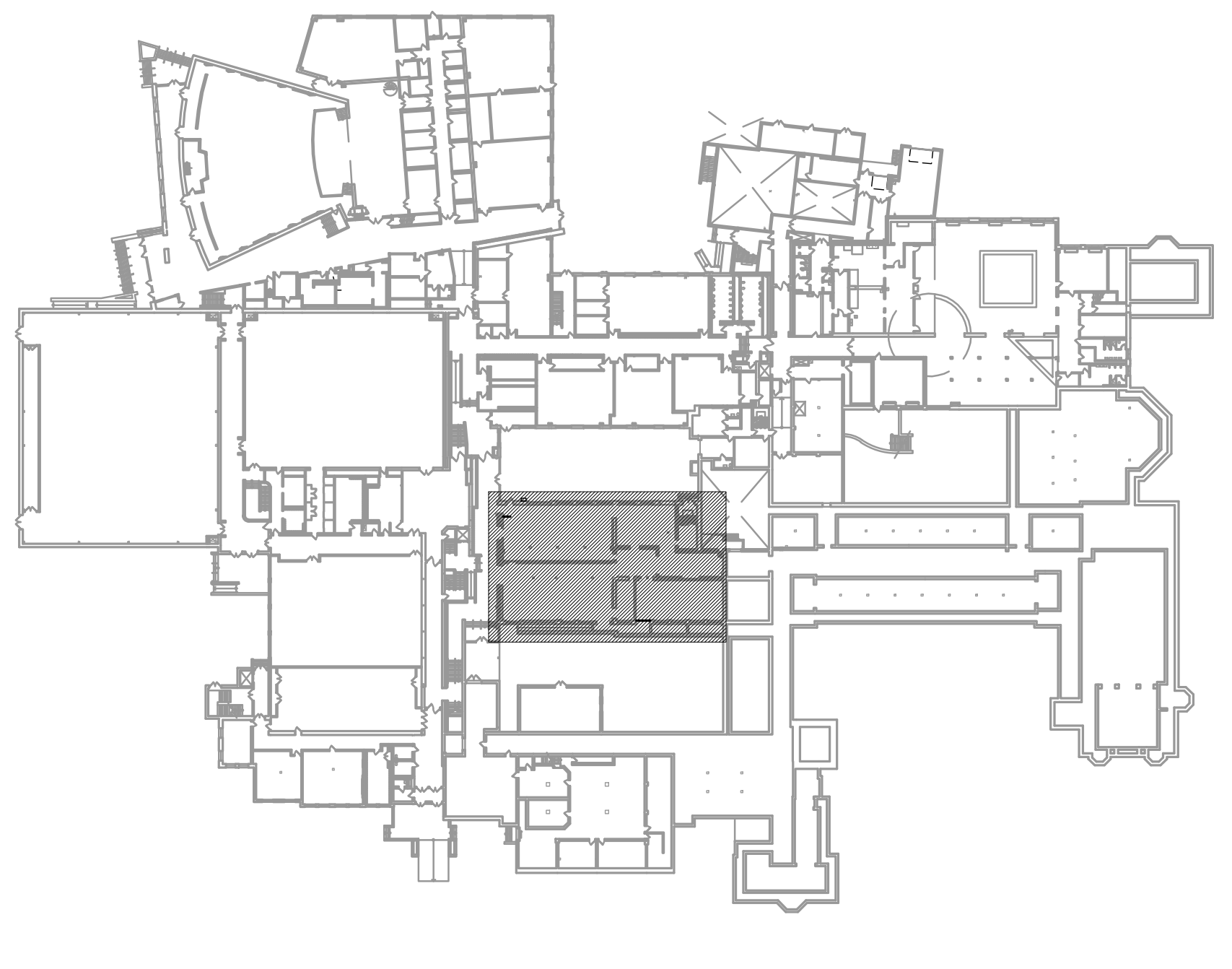
N. THE CONTRACTOR SHALL INSPECT ALL EXISTING ROOF DRAIN PIPING AND CONNECTIONS IN THE WORK AREA TO DETERMINE THAT PROPER "LEAK-PROOF" CONNECTIONS EXIST. IF ANY LEAKS EXIST (IE. DAMAGED PIPES, INSULATION, CLOGS, ETC.), THEN THE CONTRACTOR SHALL CORRECT ANY AND ALL DEFICIENCIES THAT MAY EXIST.

O. IN ROOMS WHERE EXISTING FLOOR FINISH AND BASE ARE INDICATED TO BE REMOVED, IF ASBESTOS TILE IS ENCOUNTERED, STOP REMOVAL AND NOTIFY OWNER IMMEDIATELY. ASBESTOS TILE SHALL BE REMOVED DOWN TO THE EXISTING CONCRETE SLAB AND THE SURFACE PREPARED FOR NEW FINISH BY OTHERS PRIOR TO CONTINUING WITH RENOVATION WORK. AFTER ASBESTOS ABATEMENT, THE GENERAL CONTRACTOR SHALL CLEAN SLAB TO REMOVE ADHESIVES AND INFILL WITH SELF-DRYING FINISHING UNDERLAYMENT (COMPATIBLE WITH NEW FLOOR FINISHES) OVER ENTIRE SURFACE OF EXISTING FLOOR TO MAKE FLOOR LEVEL AND FLUSH. APPLY NEW FINISH AND BASE - SEE ROOM FINISH SCHEDULE.

P. IF DURING THE DEMOLITION, RENOVATION AND ALTERATION WORK IN THE EXISTING BUILDING, STRUCTURAL ELEMENTS ARE UNCOVERED AND ARE FOUND TO BE UNSOUND OR OTHERWISE STRUCTURALLY DEFICIENT, THE GENERAL CONTRACTOR SHALL IMMEDIATELY ADVISE THE ARCHITECT AND THE STRUCTURAL ENGINEER OF RECORD OF THE CONDITION SO THAT APPROPRIATE MEASURES TO REINFORCE, SUPPORT OR REPLACE THE UNSOUND ELEMENTS CAN BE DESIGNED AND IMPLEMENTED.

Q. CONTRACTOR SHALL MAINTAIN ALL EXISTING FIRE-RATED CONSTRUCTION ASSEMBLIES, INCLUDING PROTECTED OPENINGS (DOORS, ETC.) DURING DEMOLITION AND ALTERATION WORK IN ORDER TO MAINTAIN EXISTING LIFE SAFETY AND EGRESS. CONTRACTOR IS RESPONSIBLE FOR ALL SEQUENCING AND SHALL NOT REMOVE ANY EXISTING FIRE-RATED ASSEMBLIES UNTIL NEW WORK IS READY FOR INSTALLATION. CONTRACTOR SHALL NOT REMOVE ANY EXISTING FIRE-RATED ASSEMBLIES BEYOND THAT WHICH CAN BE REPLACED IN A SINGLE DAY.

R. DARK, DASHED LINES ON THE DEMOLITION PLAN, WHETHER TAGGED OR NOT, INDICATES WORK THAT SHALL BE INCLUDED AS PART OF THE DEMOLITION/RENOVATION SCOPE. COORDINATE WITH WORK SHOWN ON THE FLOOR PLANS



KEY PLAN - GROUND FLOOR
1
N.T.S.

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FVHD architects planners
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F V H D P C . C O M

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
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Drawn By
JEK

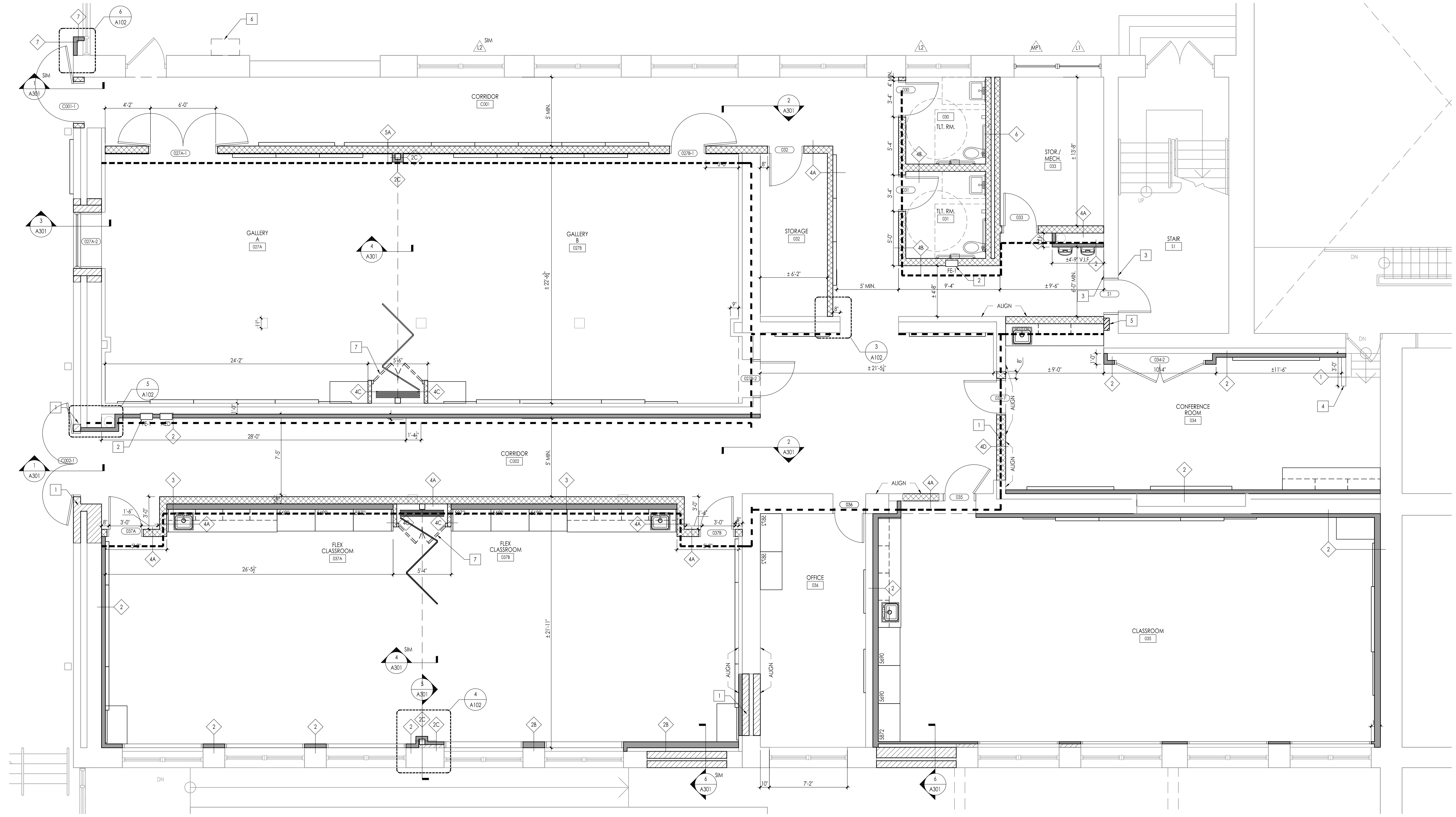
Scale
AS NOTED

Drawing Name
DEMOLITION PLANS

Revisions

No.	Date	Description

Drawing Number
A101



1 FLOOR PLAN
1/4"=1'-0"

PLAN LEGEND

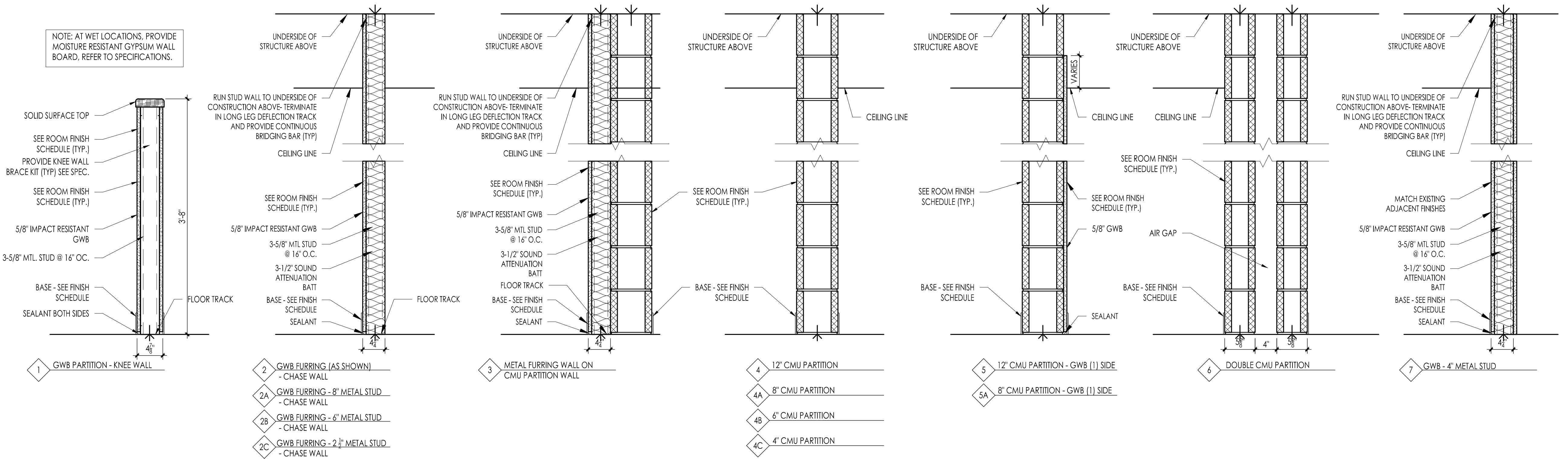
▨	BRICK
▩	NEW CMU PARTITION
▬	NEW GYPSUM BOARD PARTITION - MTL. STUDS (SEE FLOOR PLAN OR WALL SECTIONS FOR DEPTH) @ 16" O.C. W/ SOUND ATTENUATION BLANKET AND 5/8" GYPSUM BOARD EACH SIDE (TYP. U.N.O.)
FE-1 FE-2	NEW FIRE EXTINGUISHER IN SEMI-RECESSED CABINET (CMU WALL) - SEE DETAIL 7 / G002
EX FE	EXISTING FIRE EXTINGUISHER TO REMAIN
▬ ▬ ▬	NEW / EXISTING 2-HOUR RATED FIRE WALL
▬▬▬▬	NEW / EXISTING 1-HOUR RATED CORRIDOR FIRE PARTITION
	NEW FIRE RATED WALLS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS (CMU) PER UL DES U905 FOR 8" CMU AND THICKER AND PER UL DES U906 FOR 6" CMU. SEE FLOOR PLANS AND WALL SECTIONS FOR LOCATIONS AND ACTUAL CMU THICKNESS.

PLAN NOTES

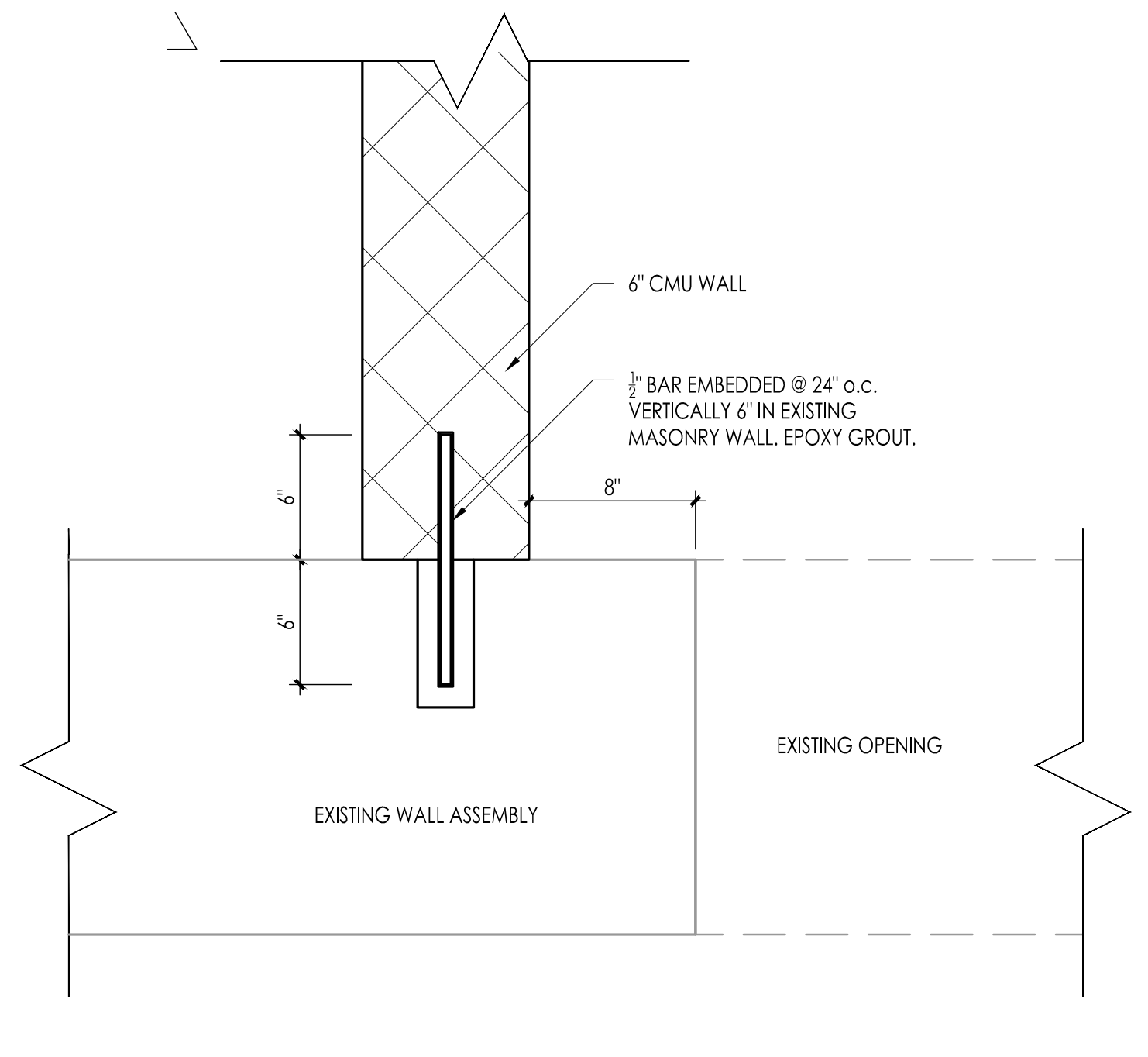
1. SEE "PROJECT GENERAL NOTES" ON DRAWING G002.
2. ALL NEW WALLS SHALL EXTEND TO UNDERSIDE OF DECK ABOVE UNLESS NOTED OTHERWISE.
3. IN ALL LOCATIONS WHERE NEW STEEL STUD AND GYPSUM BOARD WALL CONSTRUCTION IS INDICATED, PROVIDE CONTROL JOINTS AT SPACING NOT TO EXCEED 24'-0" O.C. FINAL LOCATIONS OF CONTROL JOINTS TO BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL.
4. ALL EXPOSED EXTERIOR STEEL LINTELS SHALL BE PAINTED GALVANIZED STEEL.

FLOOR PLAN & PICTURE KEYNOTES

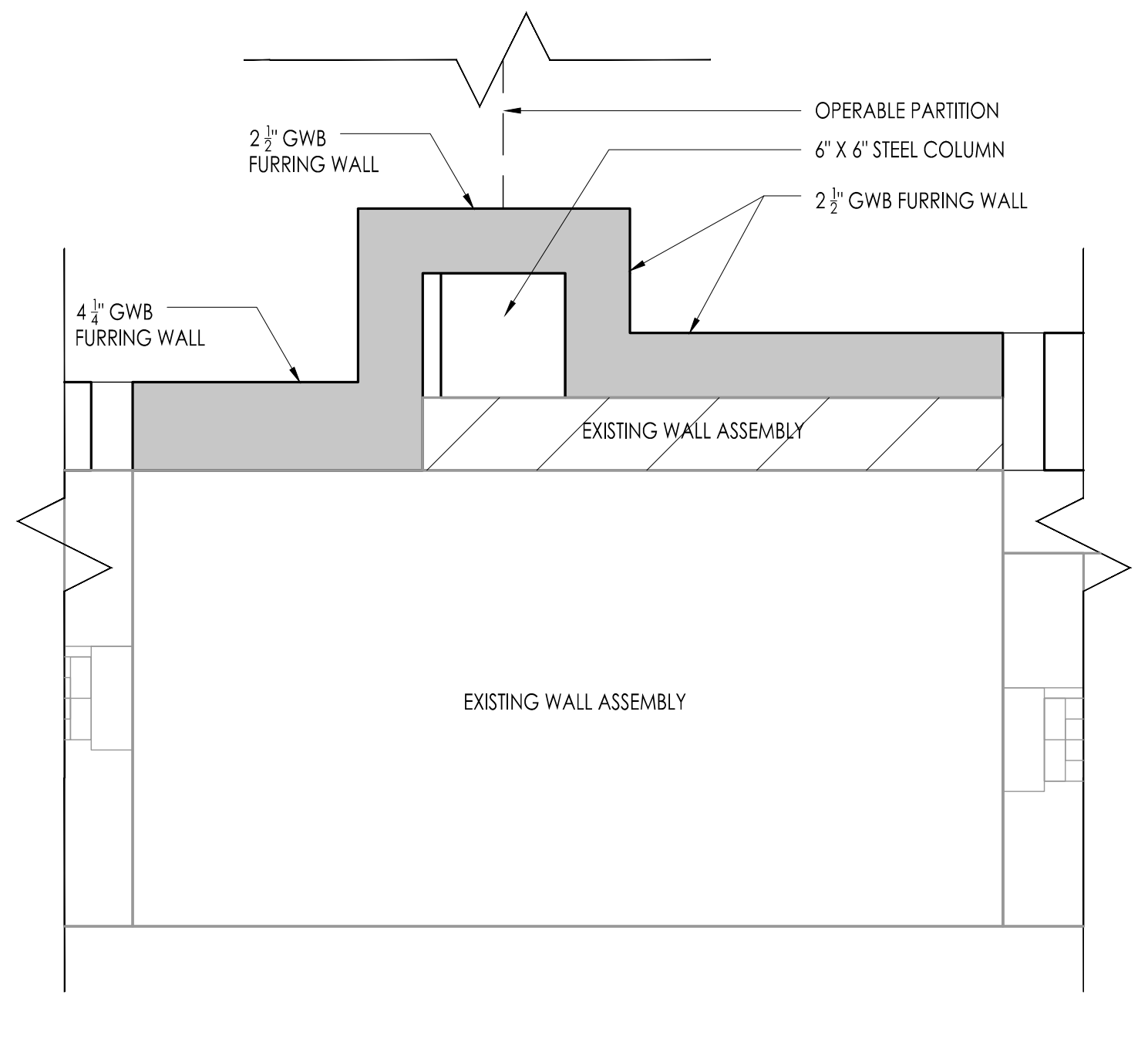
1	INFILL EXISTING WALL OPENING WITH CMU TO MATCH EXISTING WALL THICKNESS.
2	RECESSED FIRE EXTINGUISHER CABINET, REFER TO DETAILS ON G003.
3	PROVIDE SIGN TYPE #20 AT DOOR, REFER TO SIGN TYPES ON A601.
4	44" HEIGHT GYP. WALL BOARD PARTITION - KNEEWALL W/ SOLID SURFACE WALL CAP.
5	INFILL EXISTING FIRE EXTINGUISHER CABINET OPENING TO MATCH EXISTING ADJACENT FINISHES.
6	EXTEND EXISTING RADON VENT PIPE ABOVE ROOF, APPROXIMATELY 40 LINEAR FEET. PROVIDE NEW INCLINE VENT FAN, 7/A102. REFER TO SPECIFICATIONS.
7	OPERABLE PARTITION POCKET DOOR, REFER TO SPECIFICATIONS.


NOTE: AT WET LOCATIONS, PROVIDE MOISTURE RESISTANT GYPSUM WALL BOARD. REFER TO SPECIFICATIONS.
SOLID SURFACE TOP
SEE ROOM FINISH SCHEDULE (TYP.)
PROVIDE KNEE WALL BRACE KIT (TYP) SEE SPEC.
5/8" IMPACT RESISTANT GWB
3-5/8" MTL. STUD @ 16" OC.
BASE - SEE FINISH SCHEDULE
SEALANT BOTH SIDES
FLOOR TRACK
UNDERSIDE OF STRUCTURE ABOVE
RUN STUD WALL TO UNDERSIDE OF CONSTRUCTION ABOVE- TERMINATE IN LONG LEG DEFLECTION TRACK AND PROVIDE CONTINUOUS BRIDGING BAR (TYP)
CEILING LINE
3-1/2" SOUND ATTENUATION BATT
SEALANT
AIR GAP
5/8" GWB
MATCH EXISTING ADJACENT FINISHES
1 GWB PARTITION - KNEE WALL
2 GWB FURRING (AS SHOWN) - CHASE WALL
2A GWB FURRING - 8" METAL STUD - CHASE WALL
2B GWB FURRING - 6" METAL STUD - CHASE WALL
2C GWB FURRING - 2 1/2" METAL STUD - CHASE WALL
3 METAL FURRING WALL ON CMU PARTITION WALL
4 12" CMU PARTITION
4A 8" CMU PARTITION
4B 6" CMU PARTITION
4C 4" CMU PARTITION
4D 10" CMU PARTITION
5 12" CMU PARTITION - GWB (1) SIDE
5A 8" CMU PARTITION - GWB (1) SIDE
6 DOUBLE CMU PARTITION
7 GWB - 4" METAL STUD

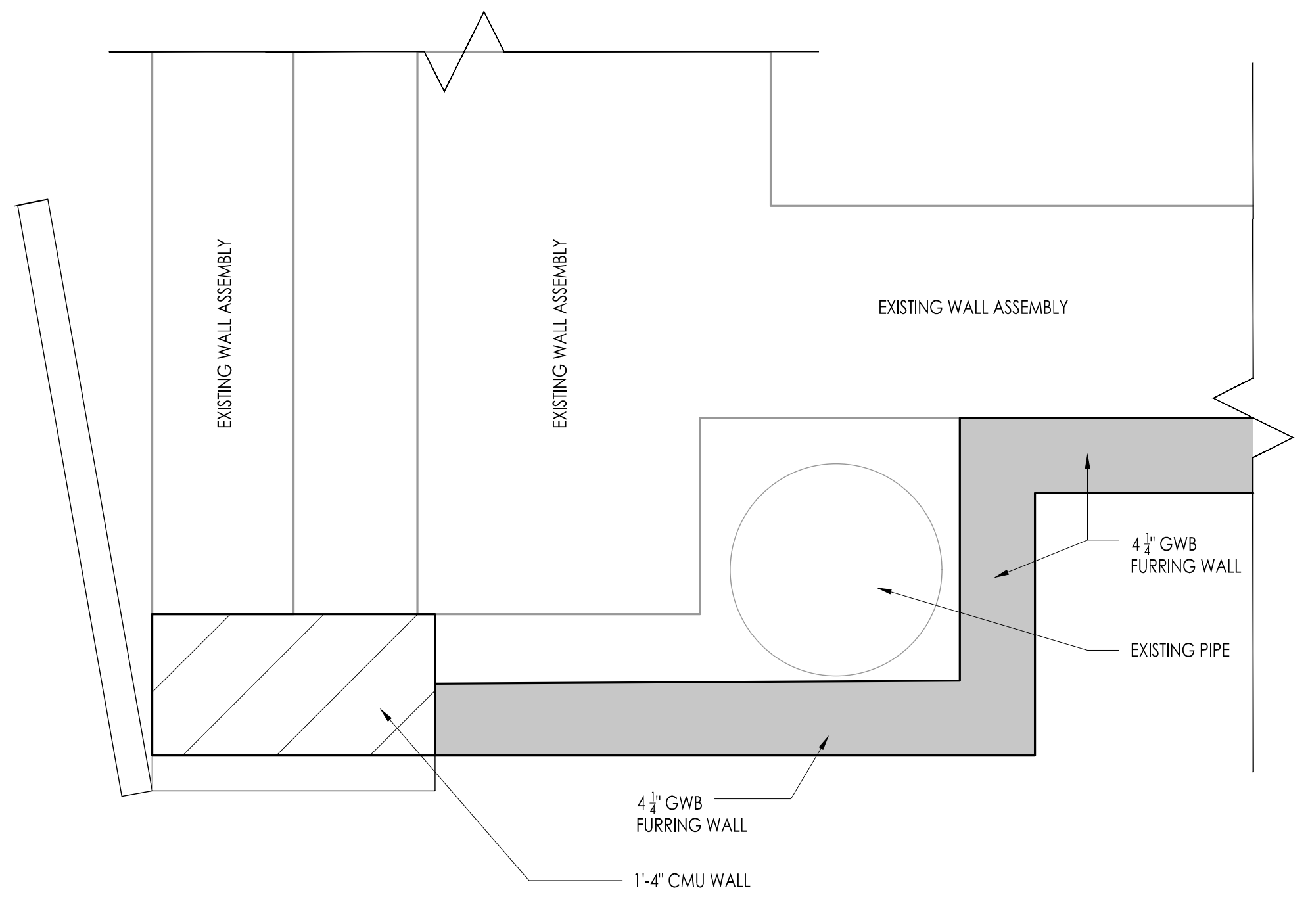
2 TYP.
1"=1'-0"


6" CMU WALL
2" BAR EMBEDDED @ 24" o.c. VERTICALLY 6" IN EXISTING MASONRY WALL. EPOXY GROUT.
8"
EXISTING WALL ASSEMBLY
EXISTING OPENING

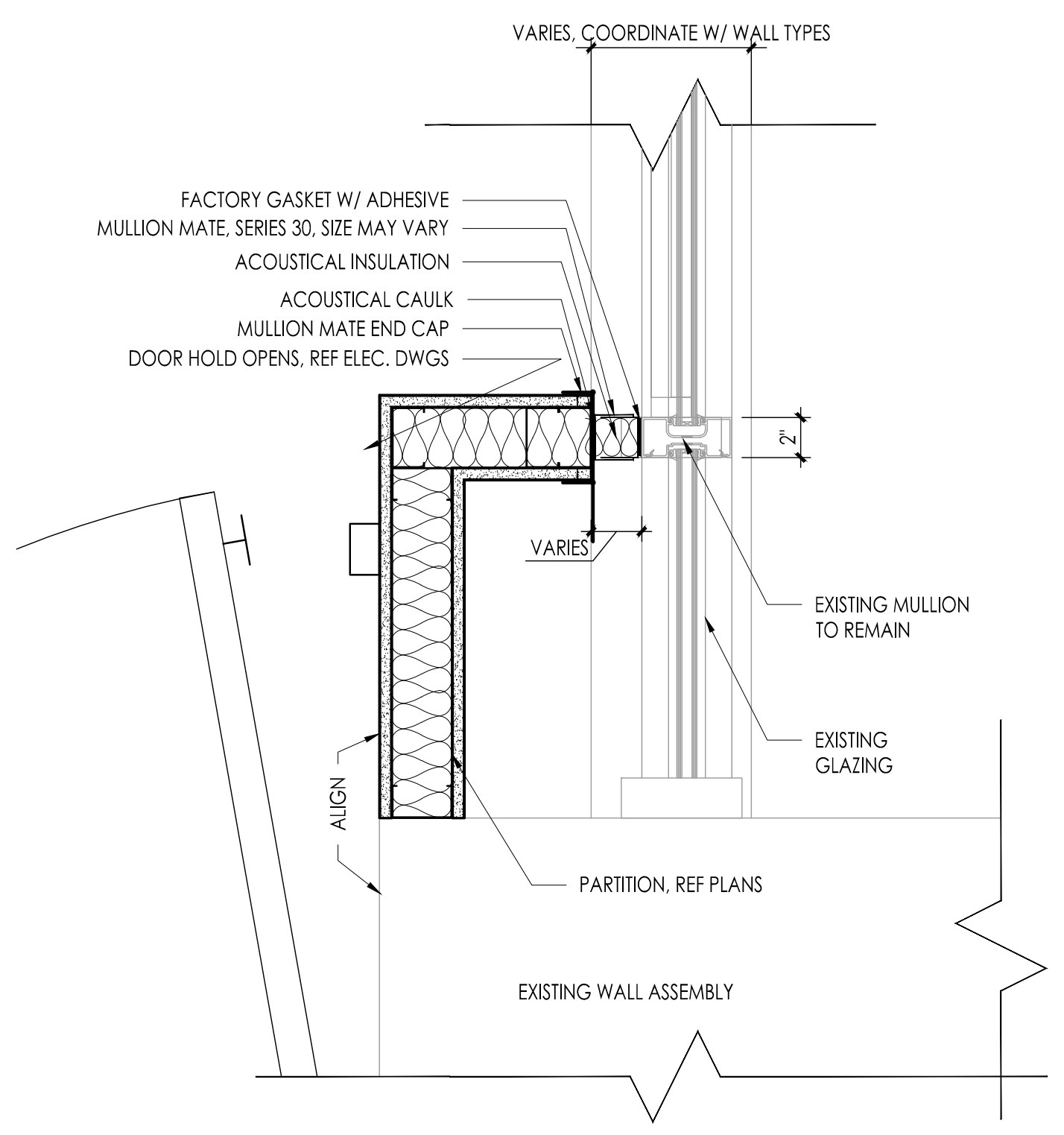
3 PLAN DETAIL
1 1/2" = 1'-0"



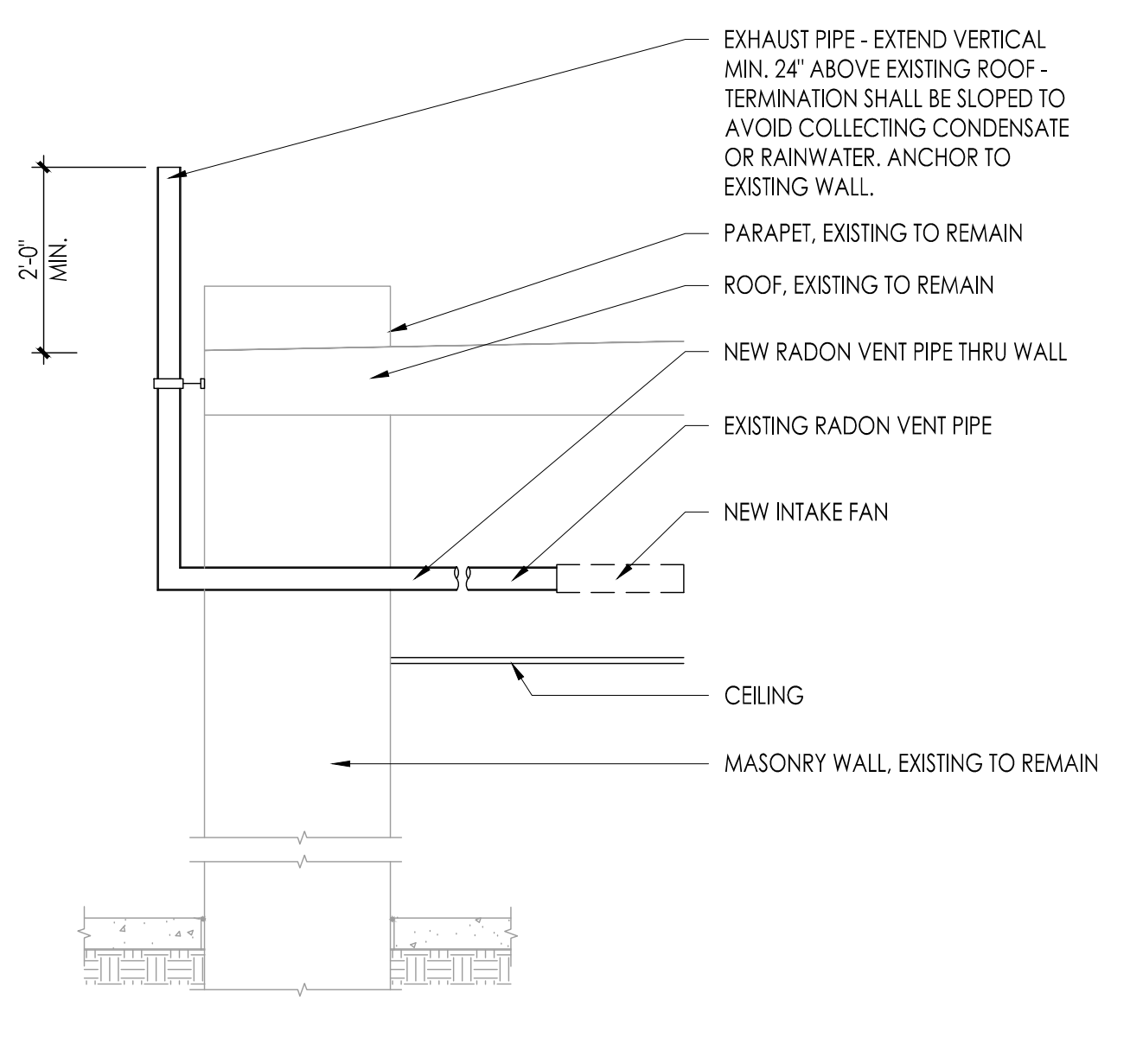
4 PLAN DETAIL
1 1/2" = 1'-0"



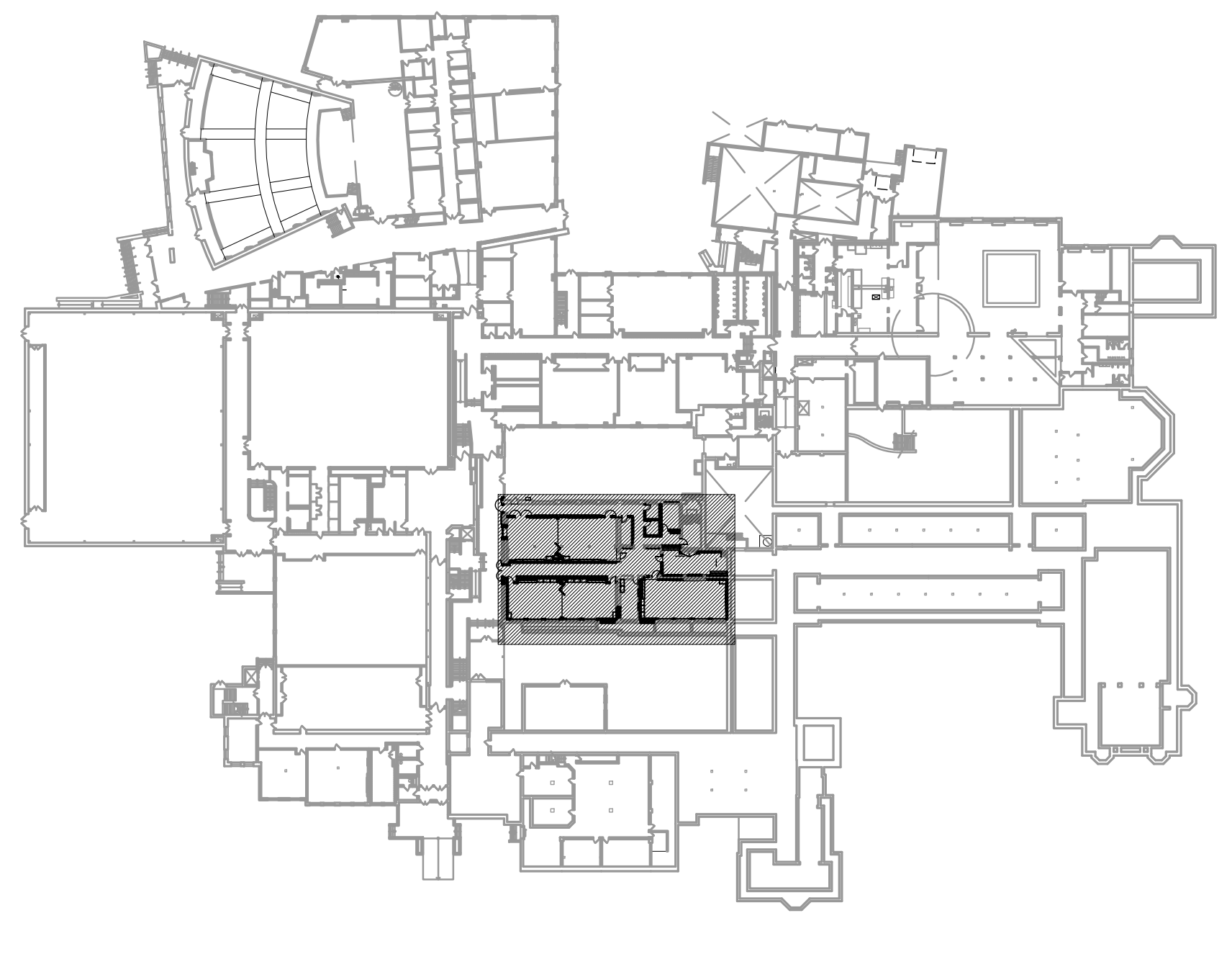
5 PLAN DETAIL / WALL-GLASS INTERSECTION
1 1/2" = 1'-0"


VARIES, COORDINATE W/ WALL TYPES
FACTORY GASKET W/ ADHESIVE
MULLION MATE, SERIES 30, SIZE MAY VARY
ACOUSTICAL INSULATION
ACOUSTICAL CAULK
MULLION MATE END CAP
DOOR HOLD OPENS, REF. ELEC. DWGS
VARIES
ALIGN
EXISTING MULLION TO REMAIN
EXISTING GLAZING
PARTITION, REF PLANS
EXISTING WALL ASSEMBLY

6 PLAN DETAIL / WALL-GLASS INTERSECTION
1 1/2" = 1'-0"


2'-0" MIN.
EXHAUST PIPE - EXTEND VERTICAL MIN. 24" ABOVE EXISTING ROOF - TERMINATION SHALL BE SLOPED TO AVOID COLLECTING CONDENSATE OR RAINWATER. ANCHOR TO EXISTING WALL.
PARAPET, EXISTING TO REMAIN
ROOF, EXISTING TO REMAIN
NEW RADON VENT PIPE THRU WALL
EXISTING RADON VENT PIPE
NEW INTAKE FAN
CEILING
MASONRY WALL, EXISTING TO REMAIN

7 RADON VENTING DETAIL
1/2" = 1'-0"



KEY PLAN - GROUND LEVEL
N.T.S.

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

William D. Hopkins
Architect

2/6/26
Date

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FVHDPC.COM

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

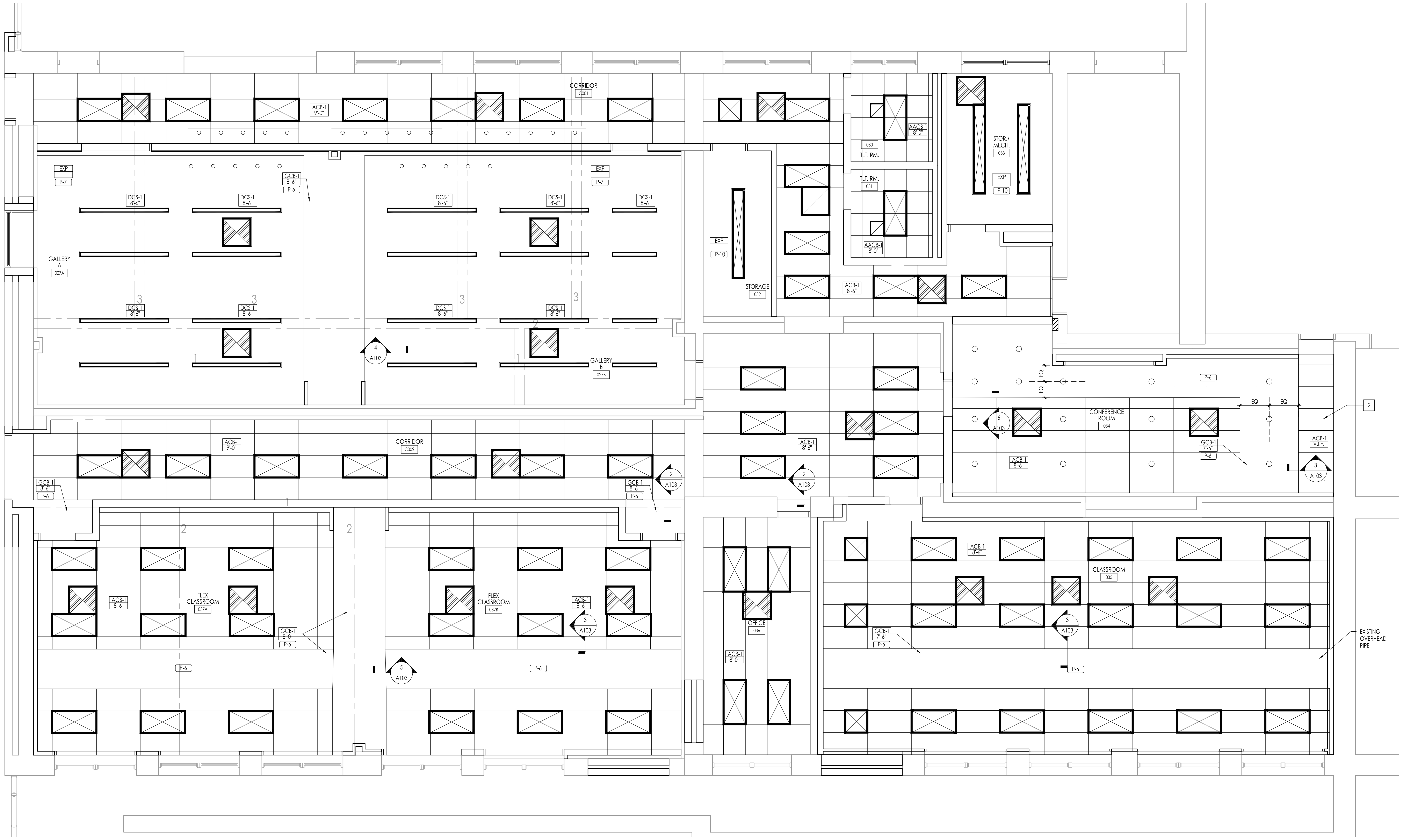
Project Number
5516A2
Project Date
02.06.2026
Checked By
WDH
Drawn By
JEK
Scale
AS NOTED

Drawing Name
FLOOR PLAN

Revisions

No.	Date	Description

Drawing Number
A102



1 REFLECTED CEILING PLAN
1/4"=1'-0"

NOTES:

1. SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR EQUIPMENT AND FIXTURES TYPES, SIZES AND ADDITIONAL INFORMATION.
2. GENERAL, HVAC, PLUMBING AND ELECTRICAL CONTRACTORS TO COORDINATE LOCATION OF SPRINKLER HEADS, DIFFUSERS, AND LIGHTS.
3. ALL SPRINKLER HEADS, DIFFUSERS, AND LIGHTS TO BE CENTERED IN THE GWB OR ACB CEILING UNLESS NOTED OTHERWISE
4. SEE ROOM FINISH SCHEDULE FOR CEILING HEIGHTS.
5. A.F.F. = ABOVE FINISH FLOOR (MAIN DATUM ELEVATION)
6. REFER TO CEILING DETAILS ON A106.
7. PATCH AND REPAIR EXPOSED CEILINGS TO A FLUSH UNIFORM SURFACE TO MATCH ADJACENT SURFACES.

REFLECTED CEILING PLAN LEGEND

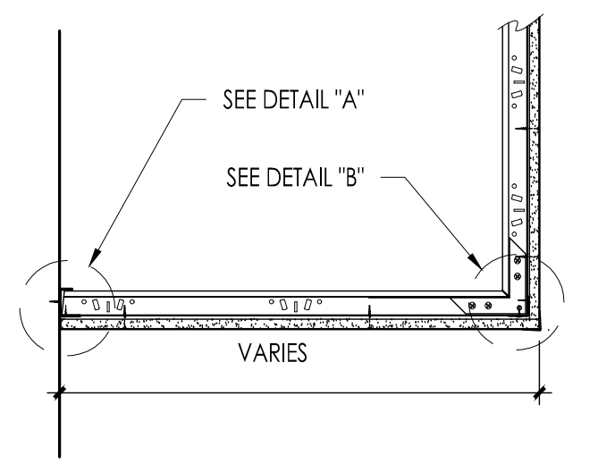
⊞	ACB-1 -2'x4' ACOUSTICAL CEILING BOARD - SEE FINISH SCHEDULE FOR LOCATION
⊞	AACB - 2'x4' ACRYLIC ACOUSTICAL CEILING BOARD -SEE FINISH SCHEDULE FOR LOCATION
▨	PAINTED GYPSUM BOARD SOFFIT / CEMENT PLASTER IN SHOWERS
⊠	SUPPLY DIFFUSER (SEE HVAC DRAWINGS)
◪	RETURN GRILLE (SEE HVAC DRAWINGS)
⊠	EXHAUST GRILLE (SEE HVAC DRAWINGS)
⊠ ▭ ▭ ▭ ○	LIGHTS (SEE ELECTRICAL DRAWINGS)
●	SPRINKLER HEAD (SEE FIRE PROTECTION DRAWINGS)

RCP KEYNOTES

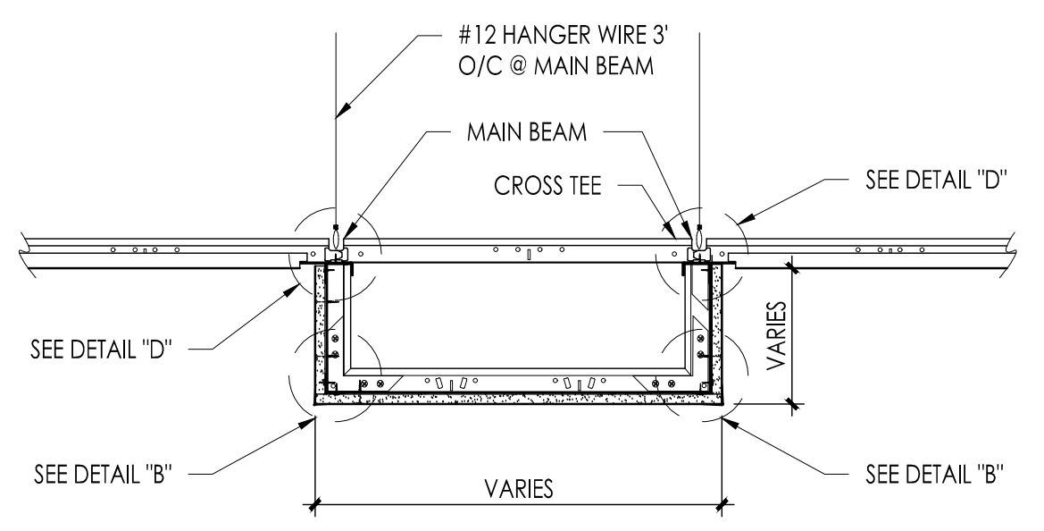
1 MODIFY EXISTING SUSPENDED GRID AS REQUIRED FOR RELOCATED UV. PROVIDE ALL COMPONENTS, INCLUDING BUT NOT LIMITED TO EDGE MOLDING, MAIN TEES, CROSS TEES, AND SUPPORT WIRE.

2 NEW CEILING CONSTRUCTION TO MATCH THE HEIGHT OF DEMOLISHED SUSPENDED GRID. VERIFY IN FIELD.

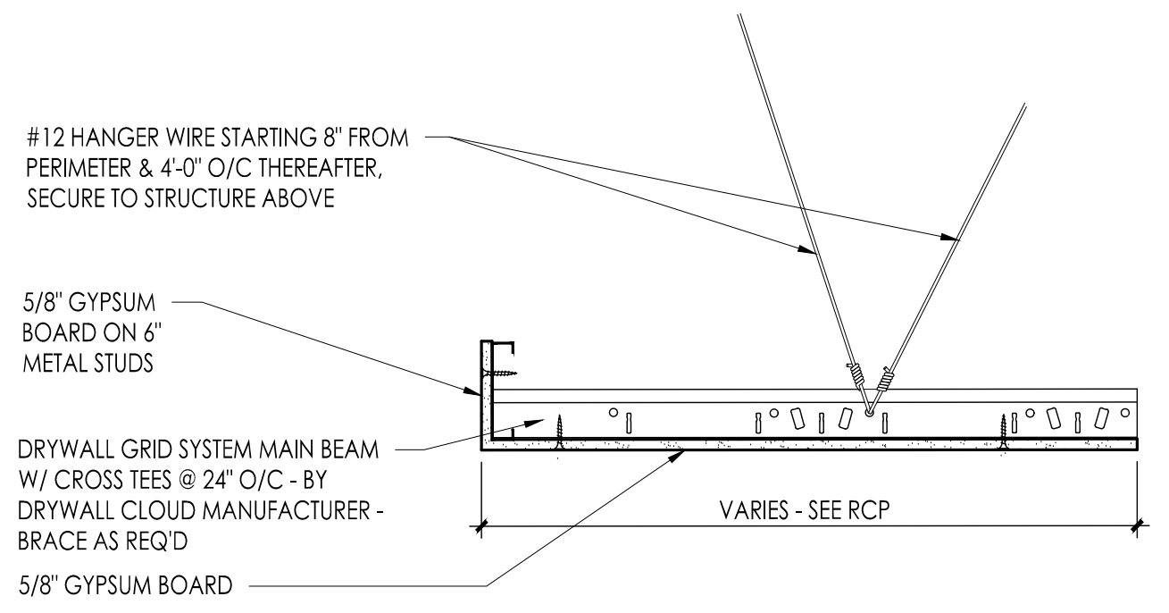
CEILING TYPES		MANUFACTURER	REMARKS
ACB-1	2x4 ACOUSTICAL CEILING BOARD SYSTEM	ARMSTRONG OR APPROVED EQUAL	SEE SPECIFICATIONS
AACB-1	2x4 ACRYLIC ACOUSTICAL CEILING BOARD SYSTEM	ARMSTRONG OR APPROVED EQUAL	TOILET ROOMS
GCB-1	GYP BD SOFFITS	---	--
DCS-1	FORMATIONS	ARMSTRONG OR APPROVED EQUAL	SEE SPECIFICATIONS



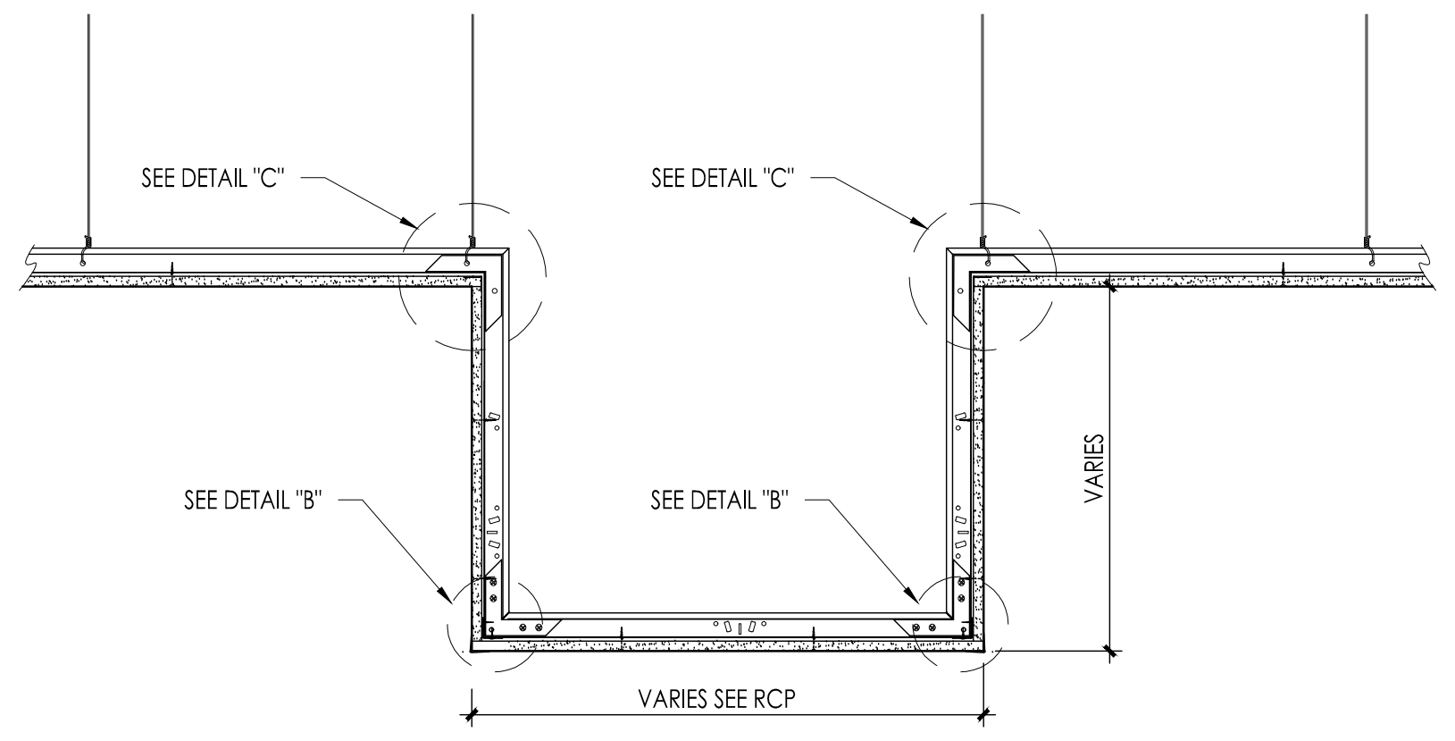
2 SOFFIT DETAIL AT DOORWAY
1" = 1'-0"



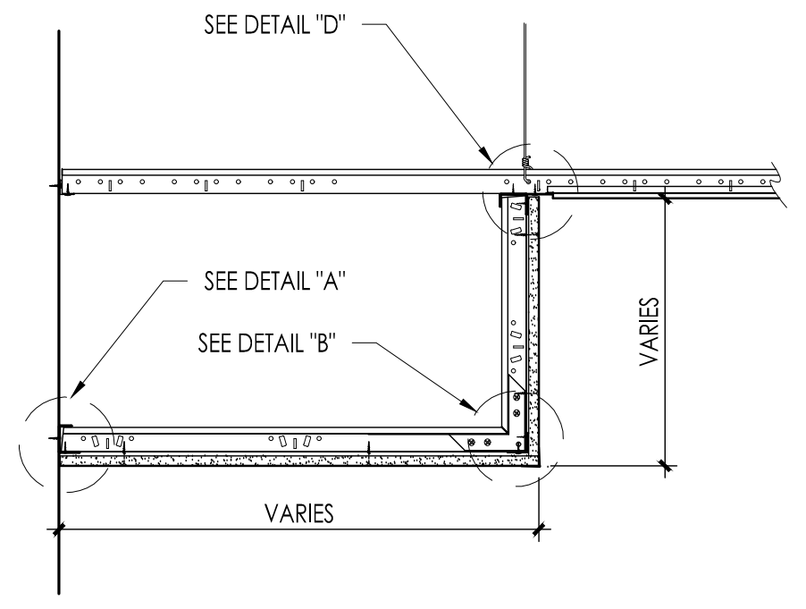
3 SOFFIT DETAIL
1" = 1'-0"


#12 HANGER WIRE STARTING 8" FROM PERIMETER & 4'-0" O/C THEREAFTER, SECURE TO STRUCTURE ABOVE
5/8" GYPSUM BOARD ON 6" METAL STUDS
DRYWALL GRID SYSTEM MAIN BEAM W/ CROSS TEES @ 24" O/C - BY DRYWALL CLOUD MANUFACTURER - BRACE AS REQ'D
VARIES - SEE RCP
5/8" GYPSUM BOARD

4 EDGE DETAIL AT CLOUDS
1" = 1'-0"

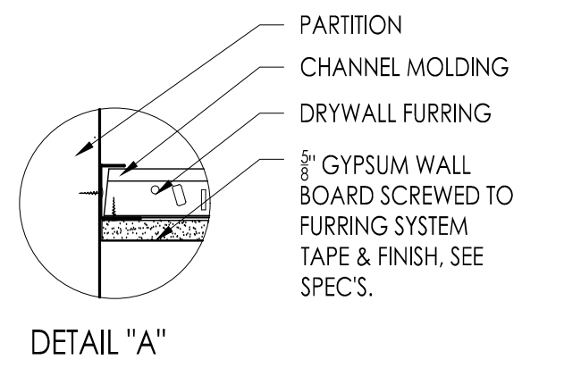


5 SOFFIT DETAIL
1" = 1'-0"

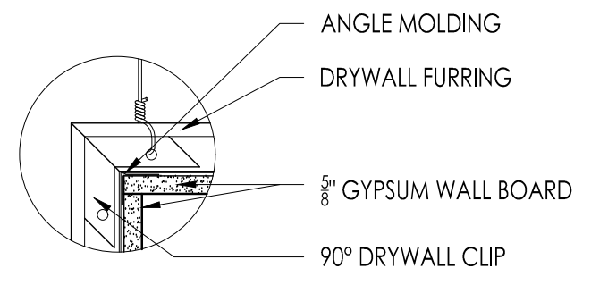


6 SOFFIT DETAIL
1" = 1'-0"

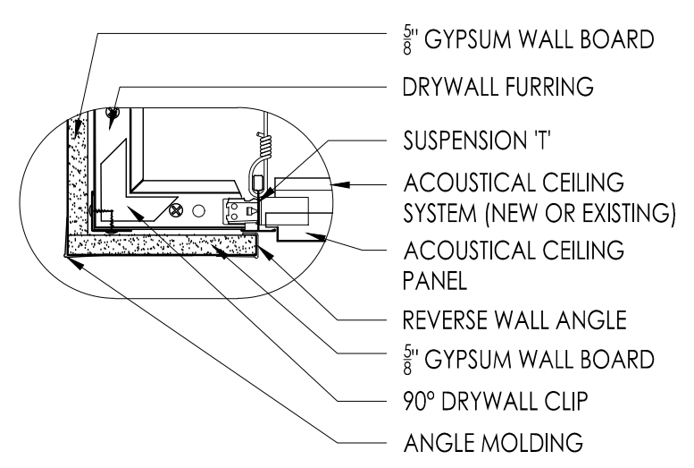
NOTE: VERIFY SPECIFIC HANGER WIRE LOCATIONS PER CONSTRUCTION CONDITIONS & CODES


PARTITION
CHANNEL MOLDING
DRYWALL FURRING
5/8" GYPSUM WALL BOARD SCREWED TO FURRING SYSTEM TAPE & FINISH, SEE SPEC'S.

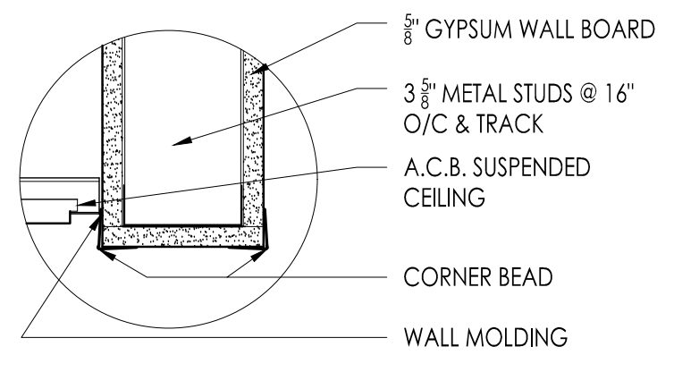
DETAIL "A"



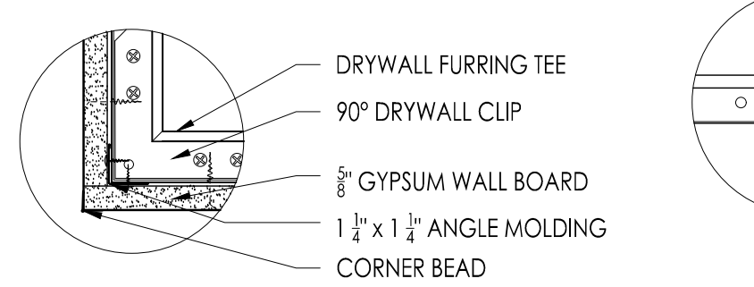
DETAIL "C"



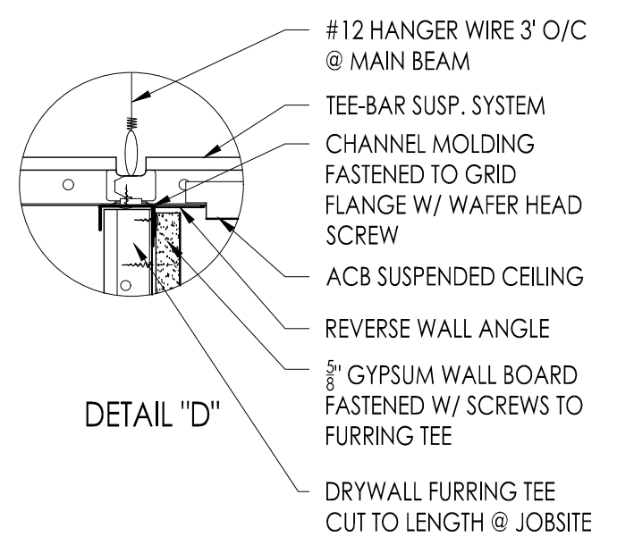
DETAIL "E"



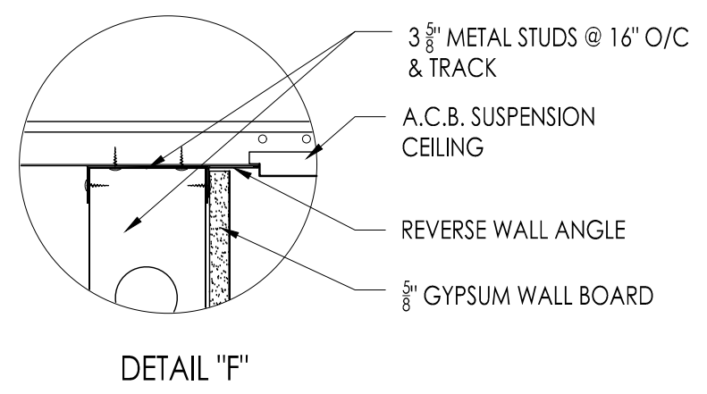
DETAIL "G"



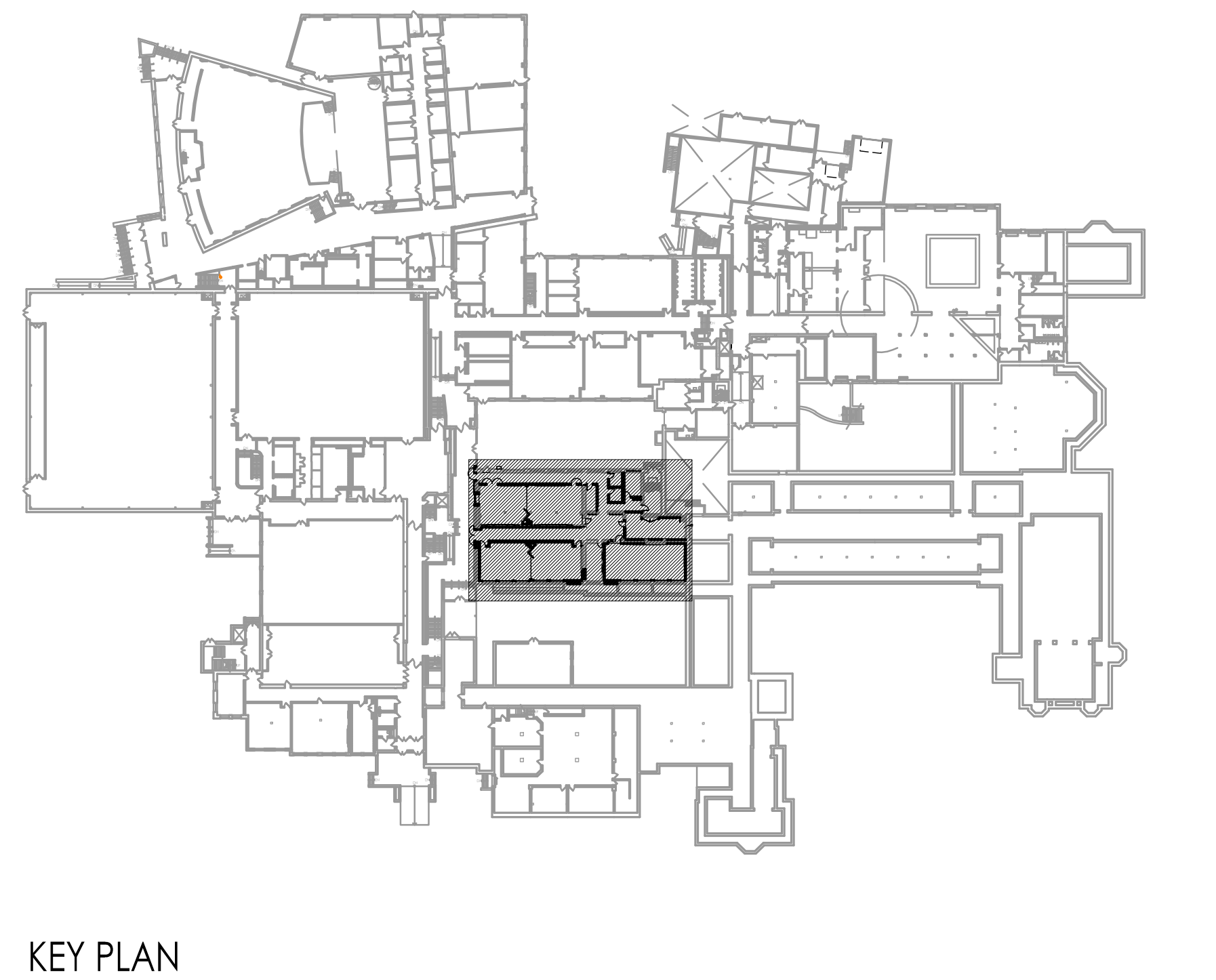
DETAIL "B"


#12 HANGER WIRE 3' O/C @ MAIN BEAM
TEE-BAR SUSP. SYSTEM
CHANNEL MOLDING FASTENED TO GRID FLANGE W/ WAFER HEAD SCREW
ACB SUSPENDED CEILING
REVERSE WALL ANGLE
5/8" GYPSUM WALL BOARD FASTENED W/ SCREWS TO FURRING TEE
DRYWALL FURRING TEE CUT TO LENGTH @ JOBSITE

DETAIL "D"


3 5/8" METAL STUDS @ 16" O/C & TRACK
A.C.B. SUSPENSION CEILING
REVERSE WALL ANGLE
5/8" GYPSUM WALL BOARD

DETAIL "F"



KEY PLAN
N.T.S.

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

William D. Hopkins
Architect

2/6/26
Date

FVHD architects planners
EST 1918
Fraytak Veisz Hopkins Duthie PC
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08618
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 19453
FVHDPC.COM

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

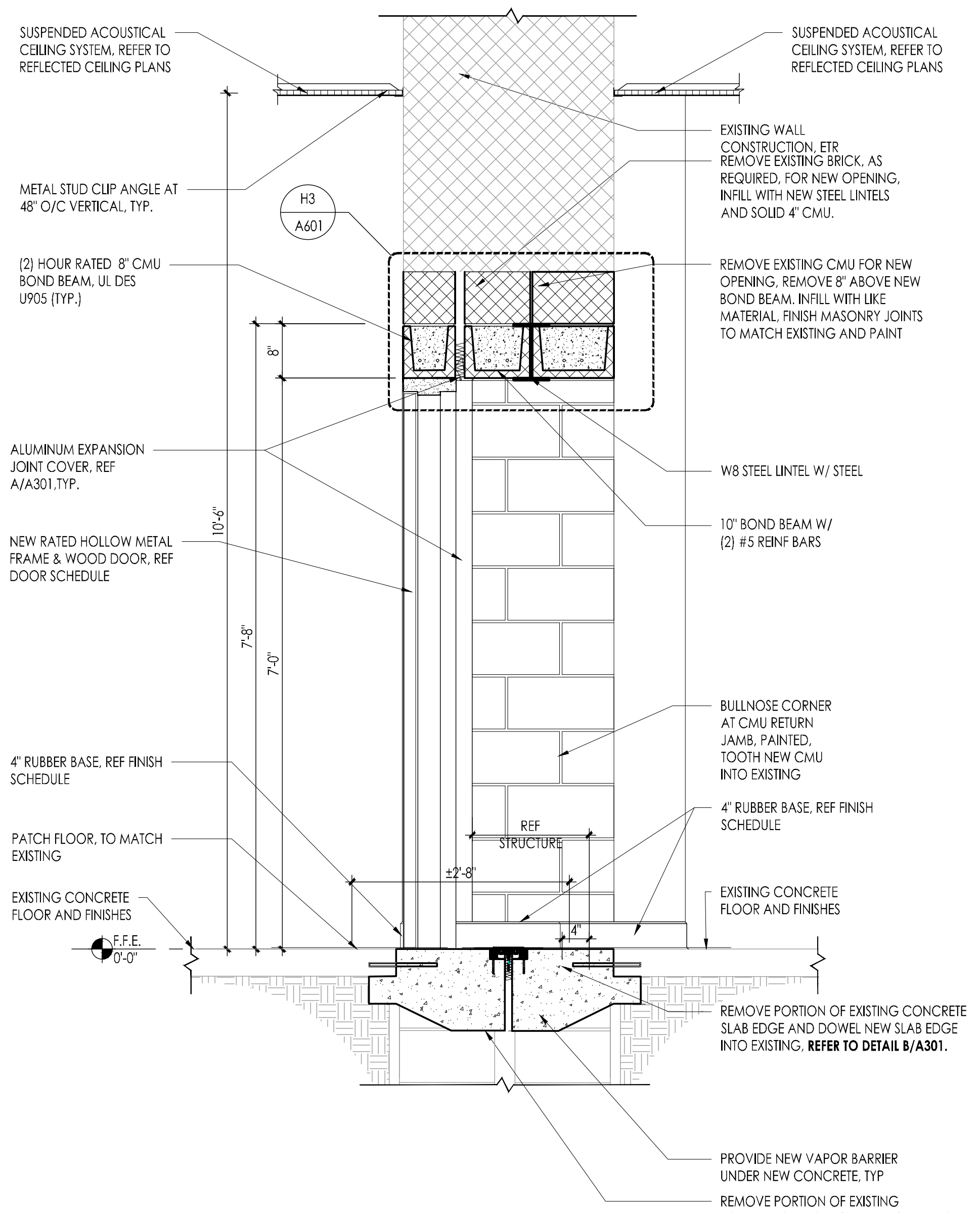
Project Number
5516A2
Project Date
02.06.2026
Checked By
WDH
Drawn By
JEK
Scale
AS NOTED

Drawing Name
REFLECTED CEILING PLANS

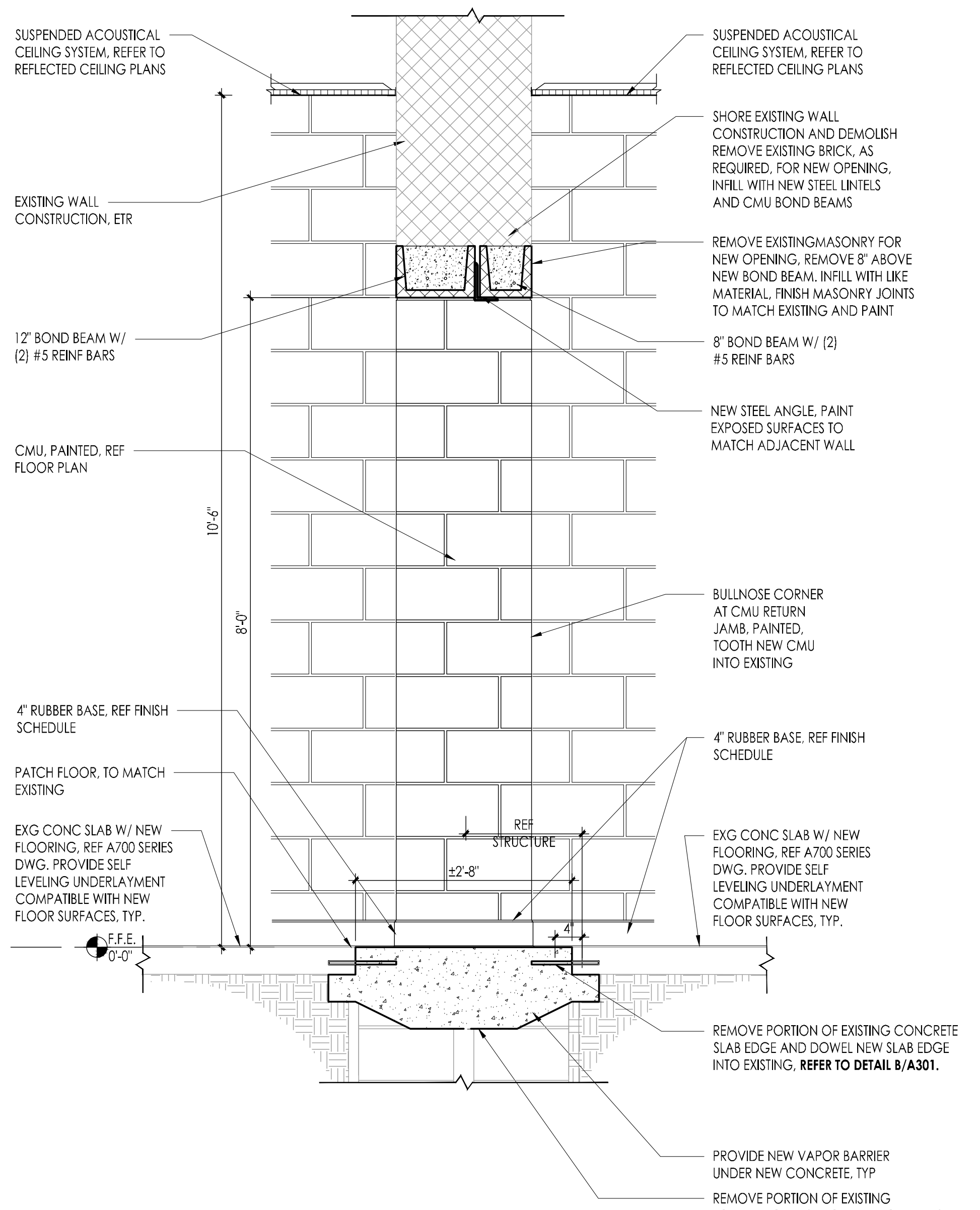
Revisions

No.	Date	Description

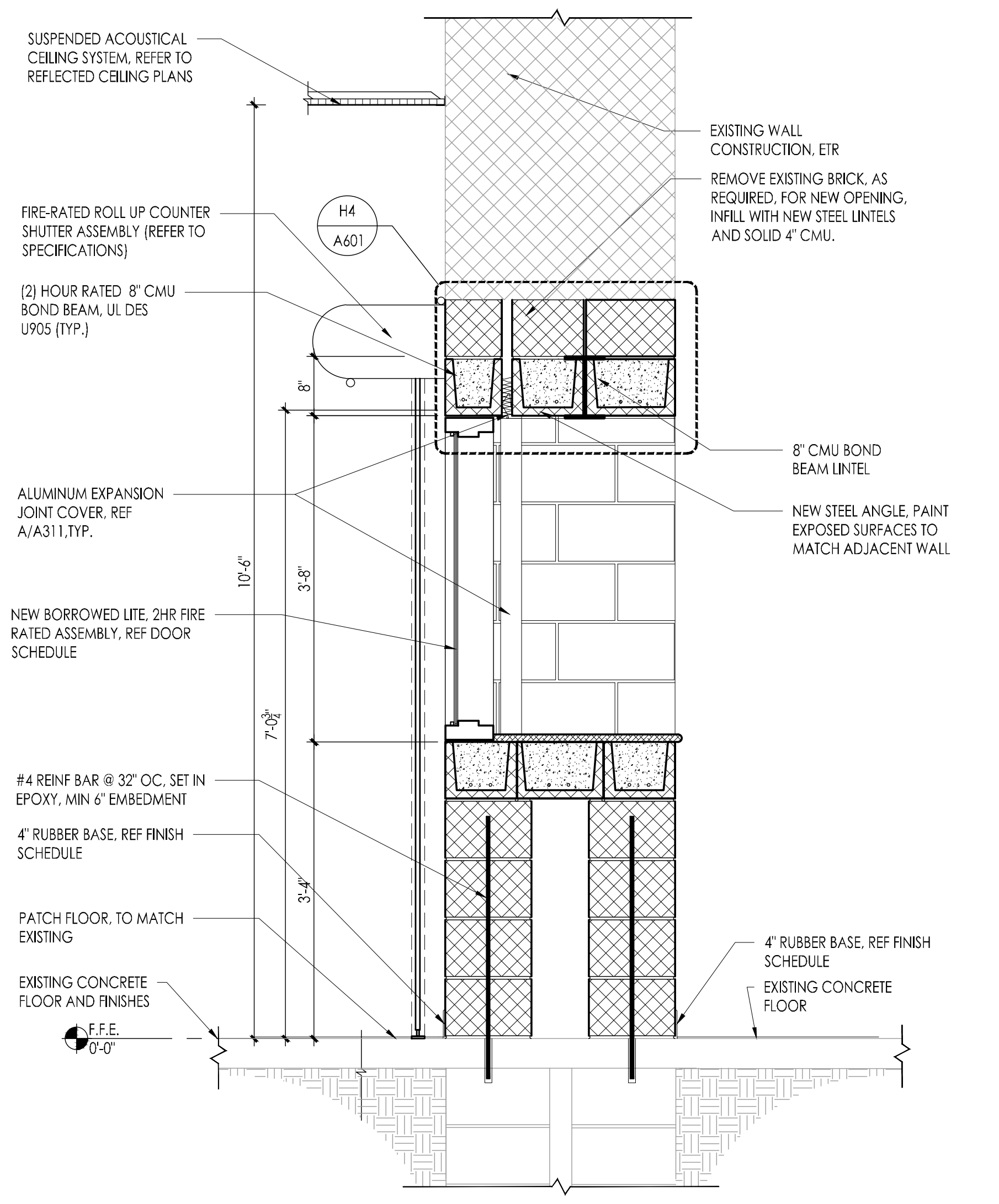
Drawing Number
A103


SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLANS
SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLANS
EXISTING WALL CONSTRUCTION, ETR
METAL STUD CLIP ANGLE AT 48" O/C VERTICAL, TYP.
REMOVE EXISTING BRICK, AS REQUIRED, FOR NEW OPENING, INFILL WITH NEW STEEL LINTELS AND SOLID 4" CMU.
H3
A601
(2) HOUR RATED 8" CMU BOND BEAM, UL DES U905 (TYP.)
REMOVE EXISTING CMU FOR NEW OPENING, REMOVE 8" ABOVE NEW BOND BEAM. INFILL WITH LIKE MATERIAL, FINISH MASONRY JOINTS TO MATCH EXISTING AND PAINT
8"
ALUMINUM EXPANSION JOINT COVER, REF A/A301,TYP.
W8 STEEL LINTEL W/ STEEL
10" BOND BEAM W/ (2) #5 REINF BARS
NEW RATED HOLLOW METAL FRAME & WOOD DOOR, REF DOOR SCHEDULE
10'-6"
7'-8"
7'-0"
BULLNOSE CORNER AT CMU RETURN JAMB, PAINTED, TOOTH NEW CMU INTO EXISTING
4" RUBBER BASE, REF FINISH SCHEDULE
PATCH FLOOR, TO MATCH EXISTING
REF STRUCTURE
4" RUBBER BASE, REF FINISH SCHEDULE
±2'-8"
EXISTING CONCRETE FLOOR AND FINISHES
EXISTING CONCRETE FLOOR AND FINISHES
4"
F.F.E. 0'-0"
REMOVE PORTION OF EXISTING CONCRETE SLAB EDGE AND DOWEL NEW SLAB EDGE INTO EXISTING, REFER TO DETAIL B/A301.
PROVIDE NEW VAPOR BARRIER UNDER NEW CONCRETE, TYP
REMOVE PORTION OF EXISTING FOUNDATION, AS REQUIRED, FOR NEW SLAB EDGE

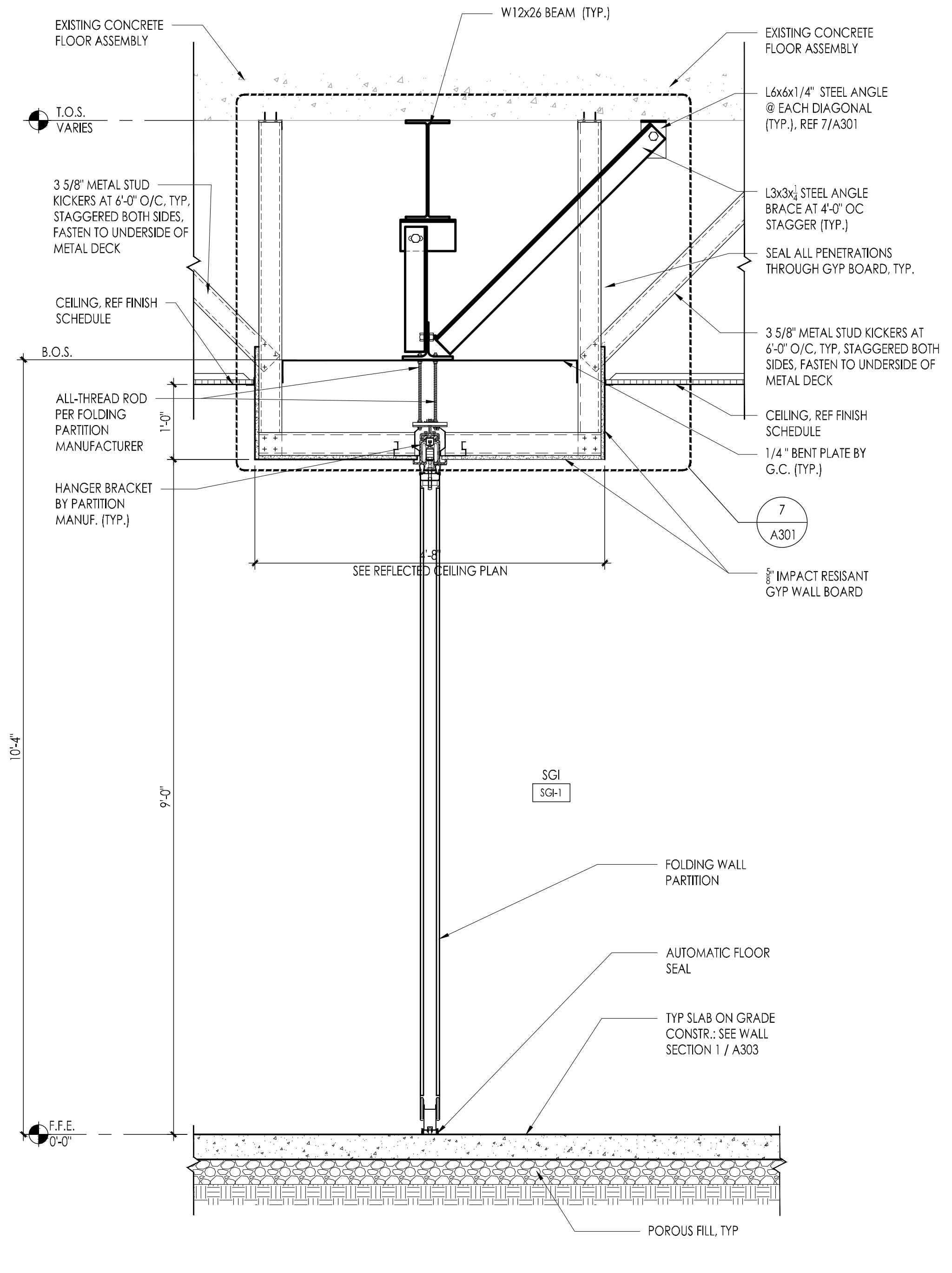
1 WALL SECTION (NEW DOOR)
Scale: 3/4" = 1' - 0"


SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLANS
SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLANS
SHORE EXISTING WALL CONSTRUCTION AND DEMOLISH REMOVE EXISTING BRICK, AS REQUIRED, FOR NEW OPENING, INFILL WITH NEW STEEL LINTELS AND CMU BOND BEAMS
EXISTING WALL CONSTRUCTION, ETR
REMOVE EXISTINGMASONRY FOR NEW OPENING, REMOVE 8" ABOVE NEW BOND BEAM. INFILL WITH LIKE MATERIAL, FINISH MASONRY JOINTS TO MATCH EXISTING AND PAINT
12" BOND BEAM W/ (2) #5 REINF BARS
8" BOND BEAM W/ (2) #5 REINF BARS
NEW STEEL ANGLE, PAINT EXPOSED SURFACES TO MATCH ADJACENT WALL
CMU, PAINTED, REF FLOOR PLAN
10'-6"
8'-0"
BULLNOSE CORNER AT CMU RETURN JAMB, PAINTED, TOOTH NEW CMU INTO EXISTING
4" RUBBER BASE, REF FINISH SCHEDULE
4" RUBBER BASE, REF FINISH SCHEDULE
PATCH FLOOR, TO MATCH EXISTING
REF STRUCTURE
±2'-8"
EXG CONC SLAB W/ NEW FLOORING, REF A700 SERIES DWG. PROVIDE SELF LEVELING UNDERLAYMENT COMPATIBLE WITH NEW FLOOR SURFACES, TYP.
EXG CONC SLAB W/ NEW FLOORING, REF A700 SERIES DWG. PROVIDE SELF LEVELING UNDERLAYMENT COMPATIBLE WITH NEW FLOOR SURFACES, TYP.
4"
F.F.E. 0'-0"
REMOVE PORTION OF EXISTING CONCRETE SLAB EDGE AND DOWEL NEW SLAB EDGE INTO EXISTING, REFER TO DETAIL B/A301.
PROVIDE NEW VAPOR BARRIER UNDER NEW CONCRETE, TYP
REMOVE PORTION OF EXISTING FOUNDATION, AS REQUIRED, FOR NEW SLAB EDGE

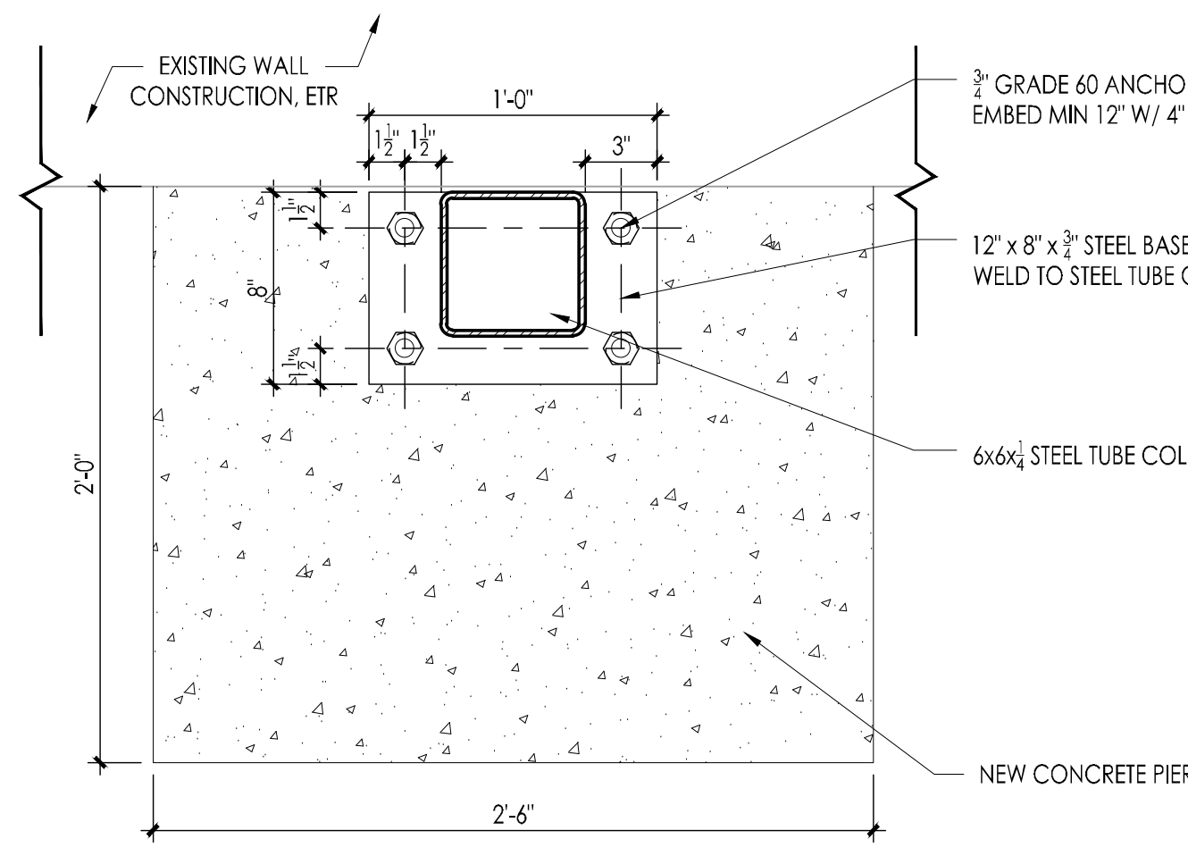
2 WALL SECTION (IN CORRIDOR)
Scale: 3/4" = 1' - 0"


SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLANS
EXISTING WALL CONSTRUCTION, ETR
REMOVE EXISTING BRICK, AS REQUIRED, FOR NEW OPENING, INFILL WITH NEW STEEL LINTELS AND SOLID 4" CMU.
FIRE-RATED ROLL UP COUNTER SHUTTER ASSEMBLY (REFER TO SPECIFICATIONS)
H4
A601
(2) HOUR RATED 8" CMU BOND BEAM, UL DES U905 (TYP.)
8"
8" CMU BOND BEAM LINTEL
NEW STEEL ANGLE, PAINT EXPOSED SURFACES TO MATCH ADJACENT WALL
ALUMINUM EXPANSION JOINT COVER, REF A/A311,TYP.
10'-6"
3'-8"
NEW BORROWED LITE, 2HR FIRE RATED ASSEMBLY, REF DOOR SCHEDULE
7'-0¾"
#4 REINF BAR @ 32" OC, SET IN EPOXY, MIN 6" EMBEDMENT
4" RUBBER BASE, REF FINISH SCHEDULE
3'-4"
PATCH FLOOR, TO MATCH EXISTING
4" RUBBER BASE, REF FINISH SCHEDULE
EXISTING CONCRETE FLOOR AND FINISHES
EXISTING CONCRETE FLOOR
F.F.E. 0'-0"

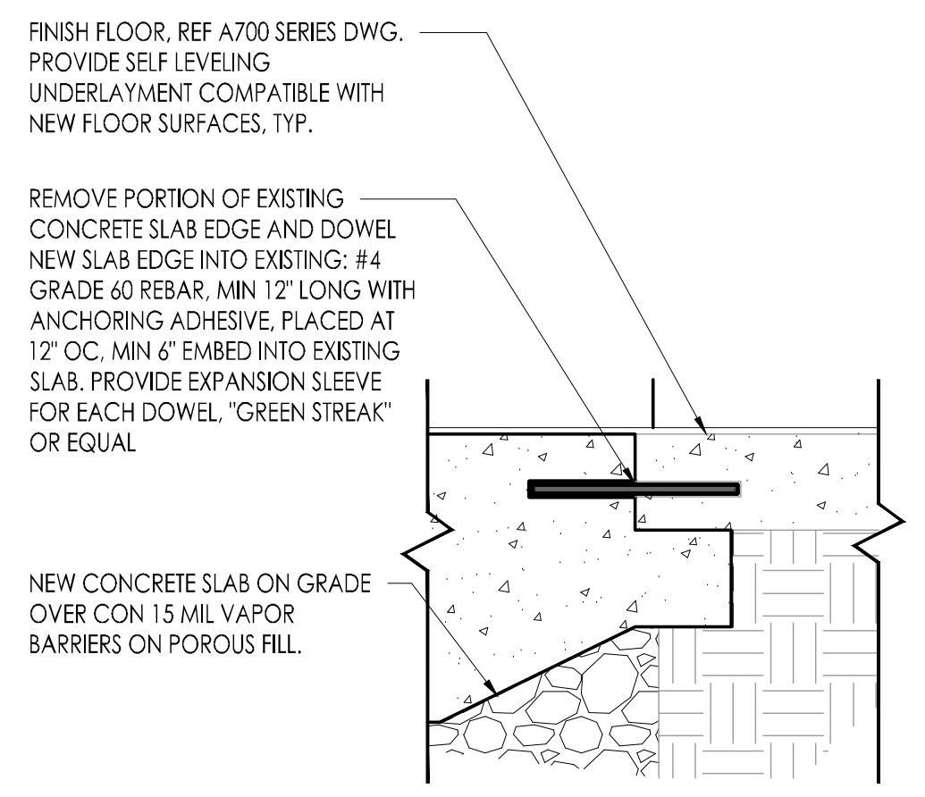
3 WALL SECTION (NEW DOOR)
Scale: 3/4" = 1' - 0"


W12x26 BEAM (TYP.)
EXISTING CONCRETE FLOOR ASSEMBLY
EXISTING CONCRETE FLOOR ASSEMBLY
T.O.S. VARIES
L6x6x1/4" STEEL ANGLE @ EACH DIAGONAL (TYP.), REF 7/A301
3 5/8" METAL STUD KICKERS AT 6'-0" O/C, TYP, STAGGERED BOTH SIDES, FASTEN TO UNDERSIDE OF METAL DECK
L3x3x¼ STEEL ANGLE BRACE AT 4'-0" OC STAGGER (TYP.)
SEAL ALL PENETRATIONS THROUGH GYP BOARD, TYP.
CEILING, REF FINISH SCHEDULE
3 5/8" METAL STUD KICKERS AT 6'-0" O/C, TYP, STAGGERED BOTH SIDES, FASTEN TO UNDERSIDE OF METAL DECK
B.O.S.
ALL-THREAD ROD PER FOLDING PARTITION MANUFACTURER
1'-0"
CEILING, REF FINISH SCHEDULE
1/4 " BENT PLATE BY G.C. (TYP.)
HANGER BRACKET BY PARTITION MANUF. (TYP.)
7
A301
4'-8"
SEE REFLECTED CEILING PLAN
⅝" IMPACT RESISANT GYP WALL BOARD
10'-4"
9'-0"
SGI
SGI-1
FOLDING WALL PARTITION
AUTOMATIC FLOOR SEAL
TYP SLAB ON GRADE CONSTR.: SEE WALL SECTION 1 / A303
F.F.E. 0'-0"
POROUS FILL, TYP

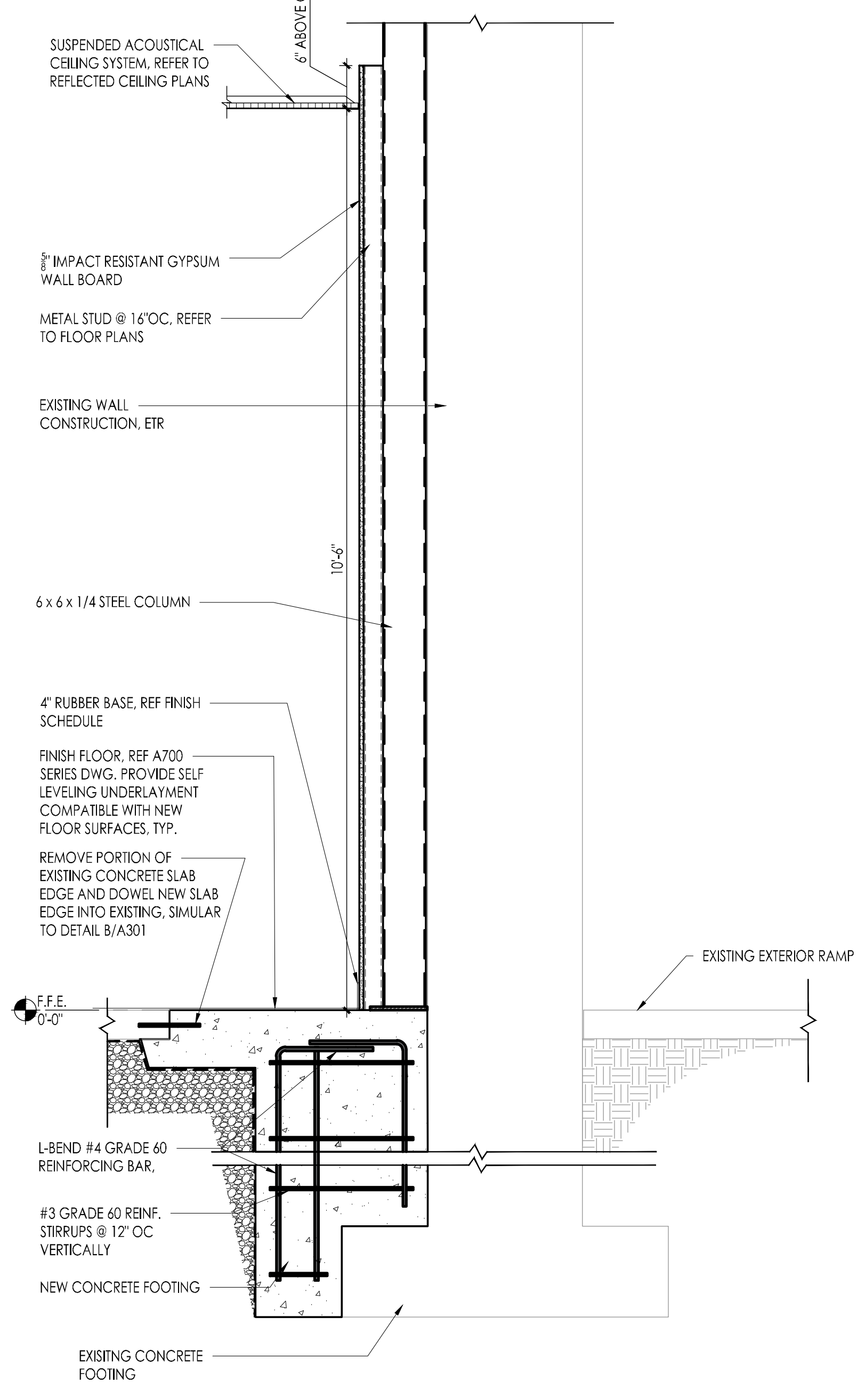
4 OPENABLE PARTITION SECTION
Scale : 3/4" = 1' - 0"


EXISTING WALL CONSTRUCTION, ETR
1'-0"
1½" 1½"
3"
¾" GRADE 60 ANCHOR BOLTS, EMBED MIN 12" W/ 4" HOOK
1½"
8"
1½"
12" x 8" x ¾" STEEL BASEPLATE WELD TO STEEL TUBE COLUMN
6x6x¼ STEEL TUBE COLUMN
2'-0"
NEW CONCRETE PIER
2'-6"

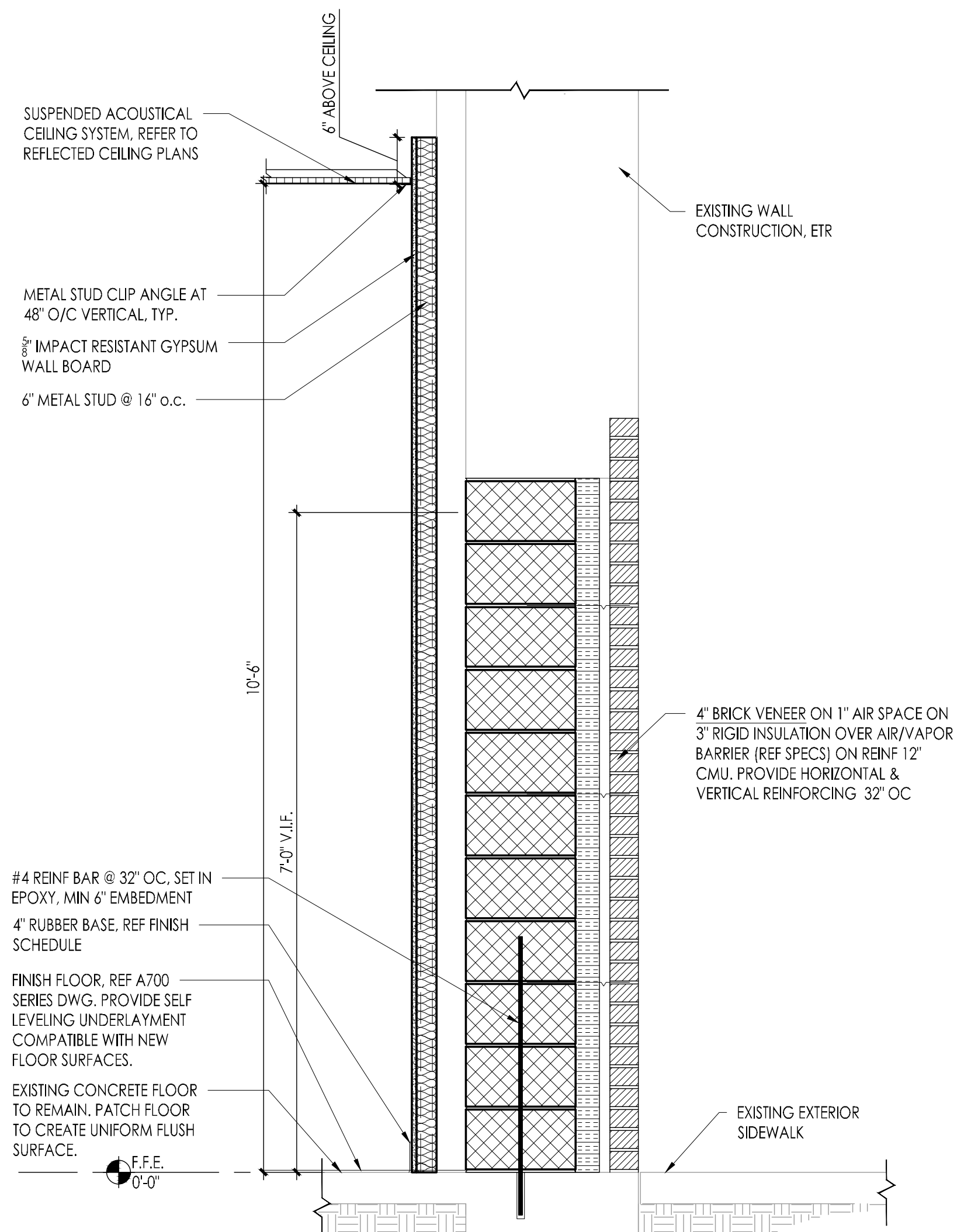
A FOUNDATION DETAIL
Scale: 1 1/2" = 1' - 0"


FINISH FLOOR, REF A700 SERIES DWG. PROVIDE SELF LEVELING UNDERLAYMENT COMPATIBLE WITH NEW FLOOR SURFACES, TYP.
REMOVE PORTION OF EXISTING CONCRETE SLAB EDGE AND DOWEL NEW SLAB EDGE INTO EXISTING: #4 GRADE 60 REBAR, MIN 12" LONG WITH ANCHORING ADHESIVE, PLACED AT 12" OC, MIN 6" EMBED INTO EXISTING SLAB. PROVIDE EXPANSION SLEEVE FOR EACH DOWEL, "GREEN STREAK" OR EQUAL
NEW CONCRETE SLAB ON GRADE OVER CON 15 MIL VAPOR BARRIERS ON POROUS FILL.

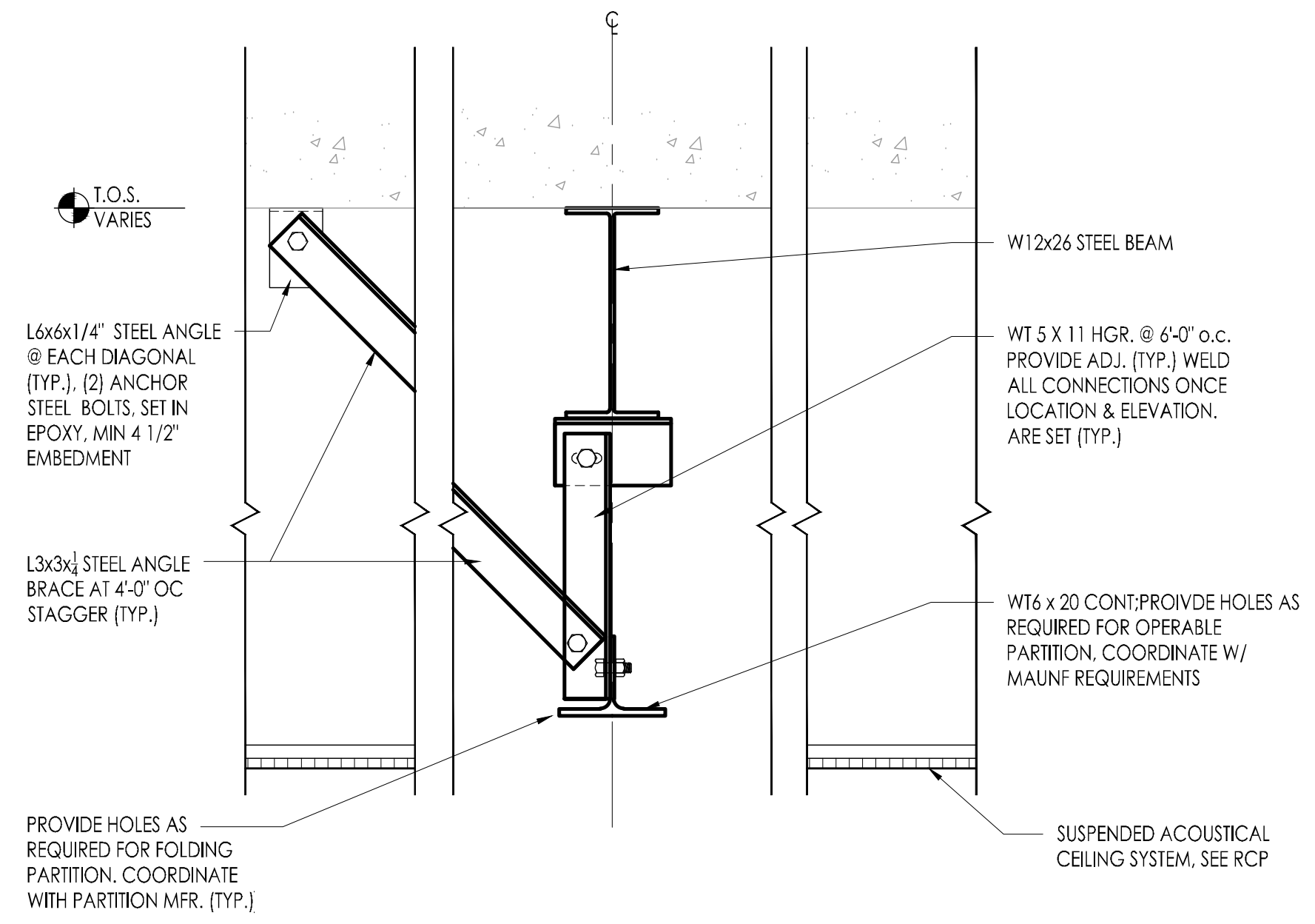
B FOUNDATION DETAIL
Scale: 1 1/2" = 1' - 0"


6" ABOVE CEILING
SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLANS
⅝" IMPACT RESISTANT GYPSUM WALL BOARD
METAL STUD @ 16"OC, REFER TO FLOOR PLANS
EXISTING WALL CONSTRUCTION, ETR
10'-6"
6 x 6 x 1/4 STEEL COLUMN
4" RUBBER BASE, REF FINISH SCHEDULE
FINISH FLOOR, REF A700 SERIES DWG. PROVIDE SELF LEVELING UNDERLAYMENT COMPATIBLE WITH NEW FLOOR SURFACES, TYP.
REMOVE PORTION OF EXISTING CONCRETE SLAB EDGE AND DOWEL NEW SLAB EDGE INTO EXISTING, SIMULAR TO DETAIL B/A301
EXISTING EXTERIOR RAMP
F.F.E. 0'-0"
L-BEND #4 GRADE 60 REINFORCING BAR,
#3 GRADE 60 REINF. STIRRUPS @ 12" OC VERTICALLY
NEW CONCRETE FOOTING
EXISITNG CONCRETE FOOTING

5 WALL SECTION (EXTERIOR OPENING INFILL)
Scale: 3/4" = 1' - 0"


6" ABOVE CEILING
SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLANS
EXISTING WALL CONSTRUCTION, ETR
METAL STUD CLIP ANGLE AT 48" O/C VERTICAL, TYP.
⅝" IMPACT RESISTANT GYPSUM WALL BOARD
6" METAL STUD @ 16" o.c.
10'-6"
4" BRICK VENEER ON 1" AIR SPACE ON 3" RIGID INSULATION OVER AIR/VAPOR BARRIER (REF SPECS) ON REINF 12" CMU. PROVIDE HORIZONTAL & VERTICAL REINFORCING 32" OC
7'-0" V.I.F.
#4 REINF BAR @ 32" OC, SET IN EPOXY, MIN 6" EMBEDMENT
4" RUBBER BASE, REF FINISH SCHEDULE
FINISH FLOOR, REF A700 SERIES DWG. PROVIDE SELF LEVELING UNDERLAYMENT COMPATIBLE WITH NEW FLOOR SURFACES.
EXISTING CONCRETE FLOOR TO REMAIN. PATCH FLOOR TO CREATE UNIFORM FLUSH SURFACE.
EXISTING EXTERIOR SIDEWALK
F.F.E. 0'-0"

6 WALL SECTION (EXTERIOR OPENING INFILL)
Scale: 3/4" = 1' - 0"


℄
T.O.S. VARIES
W12x26 STEEL BEAM
L6x6x1/4" STEEL ANGLE @ EACH DIAGONAL (TYP.), (2) ANCHOR STEEL BOLTS, SET IN EPOXY, MIN 4 1/2" EMBEDMENT
WT 5 X 11 HGR. @ 6'-0" o.c. PROVIDE ADJ. (TYP.) WELD ALL CONNECTIONS ONCE LOCATION & ELEVATION. ARE SET (TYP.)
L3x3x¼ STEEL ANGLE BRACE AT 4'-0" OC STAGGER (TYP.)
WT6 x 20 CONT;PROIVDE HOLES AS REQUIRED FOR OPERABLE PARTITION, COORDINATE W/ MAUNF REQUIREMENTS
PROVIDE HOLES AS REQUIRED FOR FOLDING PARTITION. COORDINATE WITH PARTITION MFR. (TYP.)
SUSPENDED ACOUSTICAL CEILING SYSTEM, SEE RCP

7 OPERABLE PARTITION DETAIL
Scale: 1" = 1' - 0"

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

William D. Hopkins
Architect

2/6/26
Date

FVHD architects planners
Fraytak Veisz Hopkins Duthie PC
EST 1918
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08618
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 19453
FVHDPC.COM

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

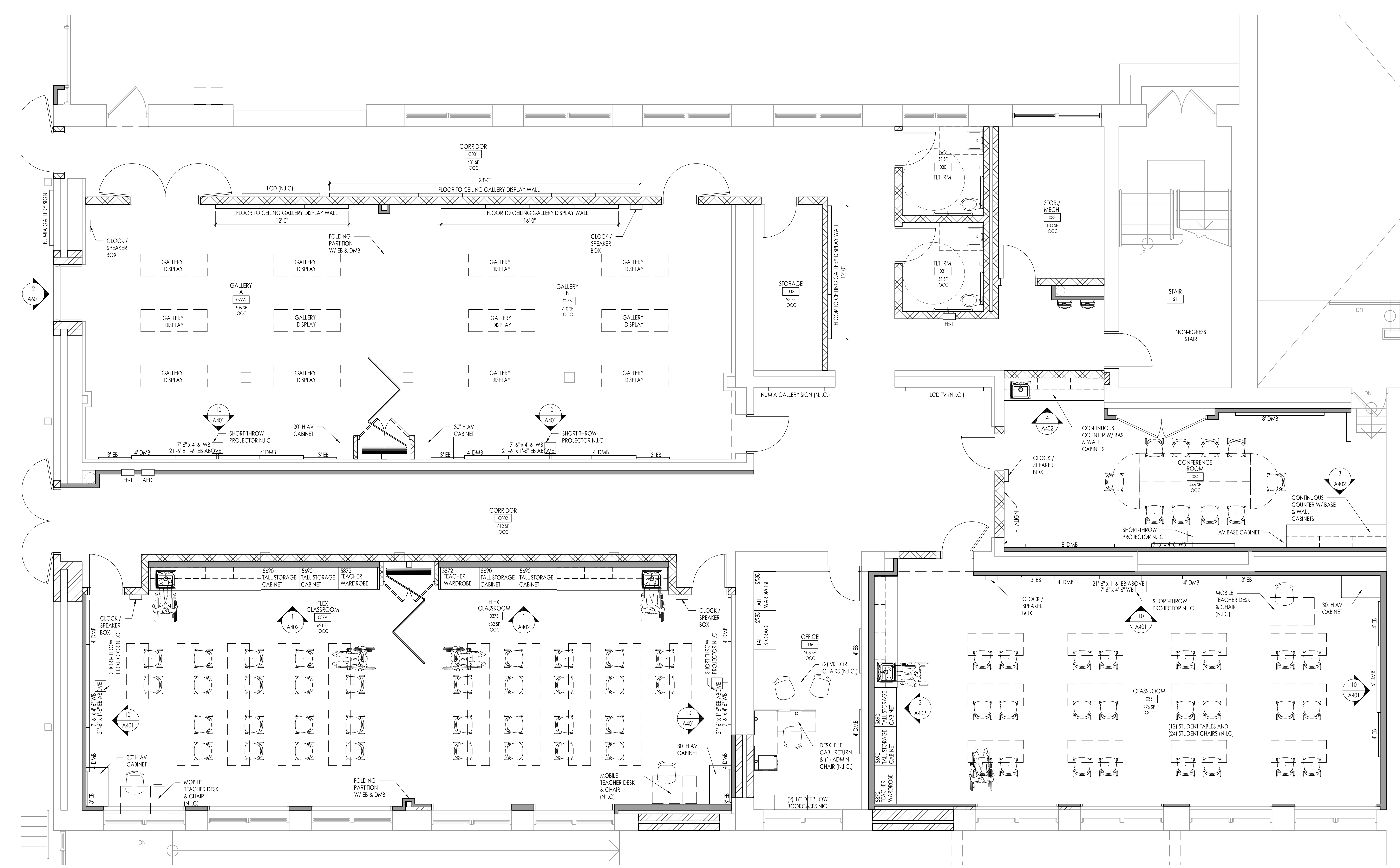
Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2
Project Date
02.06.2026
Checked By
WDH
Drawn By
JEK
Scale
AS NOTED

Drawing Name
BUILDING AND WALL SECTIONS

Revisions		
No.	Date	Description

Drawing Number
A301



1 ROOM LAYOUTS

1/4"=1'-0"

GENERAL CASEWORK NOTES:

1. CATALOG NUMBERS REFER TO MOST CURRENT CAMPBELL RHEA CASEWORK CATALOG UNLESS OTHERWISE NOTED. FOR REFERENCE ONLY.
2. ALL CASEWORK DOORS AND DRAWERS TO HAVE LOCKS KEYED ALIKE PER ROOM AND MASTER KEYED.
3. ALL TOPS SHALL BE PLYWOOD, 1" TOTAL THK. WITH PLASTIC LAMINATE COVERING ON ALL EXPOSED SURFACES (UNLESS NOTED OTHERWISE)
4. ALL BACKSPLASHES SHALL BE 3/4" PLYWOOD WITH SOLID SURFACE COVERING ON ALL EXPOSED SURFACES (UNLESS NOTED OTHERWISE).
5. ALL FURNITURE AND EQUIPMENT SHOWN DOTTED AND/OR INDICATED AS (N.I.C.) IS NOT IN CONTRACT.
6. THE CASEWORK & EQUIPMENT SUB-CONTRACTOR(S) SHALL TURN OVER TO THE PLUMBING AND ELECTRICAL PRIME CONTRACTOR(S) IN A PACKAGE, ALL SINKS, FIXTURES, FAUCETS, TAILPIECES, STRAINERS, GAS COCKS, ETC., AND ELECTRICAL DEVICES, NIPPLES AND LOCKNUTS, ETC., FOR INSTALLATION AND FINAL CONNECTION.
7. THE CASEWORK AND EQUIPMENT SUB-CONTRACTOR SHALL PROVIDE AN ITEMIZED LIST AND A DESIGNATED SITE LOCATION FOR THE TRANSFER OF THE MATERIALS REFERENCED IN NOTE 6 TO THE PLUMBING AND ELECTRICAL PRIME CONTRACTORS. THE LIST SHALL HAVE A DESCRIPTION OF THE ITEMS AND QUANTITY ALONG WITH A SIGN-OFF LINE FOR THE PLUMBING AND ELECTRICAL PRIME CONTRACTORS. A COPY OF THE SIGNED LIST IS TO BE SUBMITTED TO THE ARCHITECT / OWNER PRIOR TO BILLING FOR THIS EQUIPMENT.
8. EQUIPMENT SUB-CONTRACTOR SHALL MAKE SINK CUT-OUTS.
9. ALL DUPLEX OUTLETS SHALL BE G.F.C.I. UNLESS NOTED OTHERWISE AND SHALL BE TAMPER-RESISTANT.
10. SINK CABINETS SHALL BE INSTALLED BEFORE THE INSTALLATION OF ADJACENT CABINETS.
11. ALL CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT IN WRITTEN FORM OF ANY DISCREPANCIES.
12. PROVIDE ALL FILLERS AS REQUIRED. FILLERS AT BASE CABINETS SHALL BE AT FRONT OF CABINET AND COUNTERTOP SHALL BE CONTINUOUS OVER FILLER PANEL. FILLERS AT TALL CABINETS SHALL BE AT FRONT AND TOP OF CABINET. FILLERS AT WALL CASES SHALL BE AT FRONT, TOP AND BOTTOM OF CABINET. FINISH TO MATCH CASEWORK.
13. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL CLAY TRAPS ON SINKS IN ART CLASSROOM AND SHALL MAKE FINAL CONNECTIONS TO ALL WASTE/VENTS, WATER LINES ETC. AS REQUIRED TO MAKE SYSTEM FULLY FUNCTIONAL.
14. ALL PRINTERS AND COMPUTERS ARE N.I.C. (TYPICAL)
15. RUBBER BASE ON ALL CASEWORK BY G.C. (TYPICAL)
16. ALL SCHEDULED EQUIPMENT MANUFACTURERS ARE "BASIS OF DESIGN", OR APPROVED EQUAL.

GENERAL ENLARGED FLOOR PLAN NOTES:

1. ALL FURNITURE AND EQUIPMENT NOT TAGGED, NOT SCHEDULED, OR MARKED (NIC) IS NOT IN CONTRACT UNLESS NOTED OTHERWISE. SEE EQUIPMENT SCHEDULE FOR EQUIPMENT MARKED WITH THE SYMBOL. ALL FURNITURE AND EQUIPMENT SHOWN DOTTED AND/OR INDICATED AS (N.I.C.) IS NOT IN CONTRACT.
2. REFER TO A100 SERIES FLOOR PLANS FOR ROOM LOCATION & ROOM NUMBERS.
3. REFER TO A100 SERIES FLOOR PLANS TO DETERMINE WHICH ROOMS ARE OPPOSITE HAND AND/OR SIMILAR TO ROOM SHOWN.
4. PROVIDE A MINIMUM 18" BARRIER-FREE MANEUVERING CLEARANCE AT THE PULL SIDE OF ALL DOORS ADJACENT TO CABINETS, SHELVING, CORRIDOR LOCKERS, ETC.
5. PROVIDE A MINIMUM 12" BARRIER-FREE MANEUVERING CLEARANCE AT THE PUSH SIDE OF ALL DOORS ADJACENT TO CABINETS, SHELVING, CORRIDOR LOCKERS, ETC.
6. THE EQUIPMENT SUB-CONTRACTOR(S) SHALL BE (A) SUBCONTRACTOR(S) OF THE GENERAL CONSTRUCTION WORK CONTRACTOR.

GENERAL CASEWORK NOTES:

1. CATALOG NUMBERS REFER TO MOST CURRENT CAMPBELL RHEA CASEWORK CATALOG AND JUST MANUFACTURING CATALOG UNLESS OTHERWISE NOTED. FOR REFERENCE ONLY.
2. ALL CASEWORK DOORS AND DRAWERS TO HAVE LOCKS KEYED ALIKE PER ROOM AND MASTER KEYED.
3. ALL TOPS SHALL BE 1/2" SOLID SURFACE ON 1/2" PLYWOOD (UNLESS NOTED OTHERWISE). LAMINATE TOPS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
4. ALL BACKSPLASHES SHALL BE 1/2" SOLID SURFACE (UNLESS NOTED OTHERWISE).
5. ALL FURNITURE AND EQUIPMENT SHOWN DOTTED AND/OR INDICATED AS (N.I.C.) IS NOT IN CONTRACT.
6. THE CASEWORK & EQUIPMENT SUB-CONTRACTOR(S) SHALL TURN OVER TO THE PLUMBING AND ELECTRICAL SUB-CONTRACTOR(S) IN A PACKAGE, ALL SINKS, FIXTURES, FAUCETS, TAILPIECES, STRAINERS, ETC., AND ELECTRICAL DEVICES, NIPPLES AND LOCKNUTS, ETC., FOR INSTALLATION AND FINAL CONNECTION.
7. THE CASEWORK AND EQUIPMENT SUB-CONTRACTOR SHALL PROVIDE AN ITEMIZED LIST AND A DESIGNATED SITE LOCATION FOR THE TRANSFER OF THE MATERIALS REFERENCED IN NOTE 6 TO THE PLUMBING AND ELECTRICAL SUB-CONTRACTORS. THE LIST SHALL HAVE A DESCRIPTION OF THE ITEMS AND QUANTITY ALONG WITH A SIGN-OFF LINE FOR THE PLUMBING AND ELECTRICAL SUB-CONTRACTORS. A COPY OF THE SIGNED LIST IS TO BE SUBMITTED TO THE ARCHITECT / OWNER PRIOR TO BILLING FOR THIS EQUIPMENT.
8. EQUIPMENT SUB-CONTRACTOR SHALL MAKE SINK CUT-OUTS.
9. ALL DUPLEX OUTLETS SHALL BE G.F.C.I. UNLESS NOTED OTHERWISE AND SHALL BE TAMPER-RESISTANT.
10. SINK CABINETS SHALL BE INSTALLED BEFORE THE INSTALLATION OF ADJACENT CABINETS.
11. ALL CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT IN WRITTEN FORM OF ANY DISCREPANCIES.
12. PROVIDE ALL FILLERS AS REQUIRED. FILLERS AT BASE CABINETS SHALL BE AT FRONT OF CABINET AND COUNTERTOP SHALL BE CONTINUOUS OVER FILLER PANEL. FILLERS AT TALL CABINETS SHALL BE AT FRONT AND TOP OF CABINET. FILLERS AT WALL CASES SHALL BE AT FRONT, TOP AND BOTTOM OF CABINET. FINISH TO MATCH CASEWORK.
13. ALL PRINTERS AND COMPUTERS ARE N.I.C. (TYPICAL)
14. RUBBER BASE ON ALL CASEWORK BY G.C. (TYPICAL)
15. ALL SCHEDULED EQUIPMENT MANUFACTURERS ARE "BASIS OF DESIGN", OR APPROVED EQUAL.
16. SEE DETAILS A AND B / A403 FOR MOUNTING OF DRYMARKER BOARDS AND EXHIBITION BOARDS.

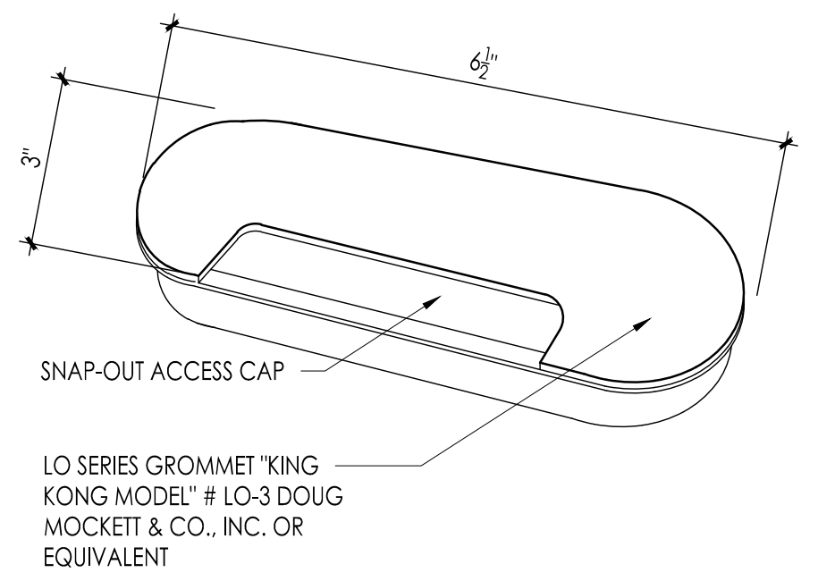
SINK NOTE 'A': (ITEM #101)

JUST 'SL-ADA-1921-65-J' DROP-IN STAINLESS STEEL WHEELCHAIR ACCESSIBLE SINK: TYPE 304, 18-GAUGE SINGLE COMPARTMENT, SELF-RIM, 22" W x 19 1/2" L x 6 1/2" D, SINK UNDERCOATED W/ SOUND DEADENING MATERIAL.
FURNISH COMPLETE WITH:

JUST 'J-1175-KS' FAUCET WITH CONCEALED HOT & COLD MIXING VALVE, SWIVERAL GOOSENECK SPOUT, 1.5 GPM AERATOR AND WRIST BLADE HANDLES

JUST 'J-ADA-35-FS' OFFSET DRAIN ASSEMBLY W/ DRAIN INSULATING KIT (#J-ADA-150) AND STAINLESS STEEL FLAT STRAINER & 4" LONG STAINLESS STEEL TAILPIECE (#J-35-SSF)

SINK, FAUCET, STRAINER, AND TAILPIECE TO BE SUPPLIED BY EQUIPMENT CONTRACTOR. THE PLUMBING SUBCONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAPS, VALVES, WASTE LINES, ETC. AS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. THE PLUMBING SUBCONTRACTOR SHALL MAKE THE FINAL PLUMBING CONNECTIONS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. SEE GENERAL CASEWORK NOTES # 6 & 7.

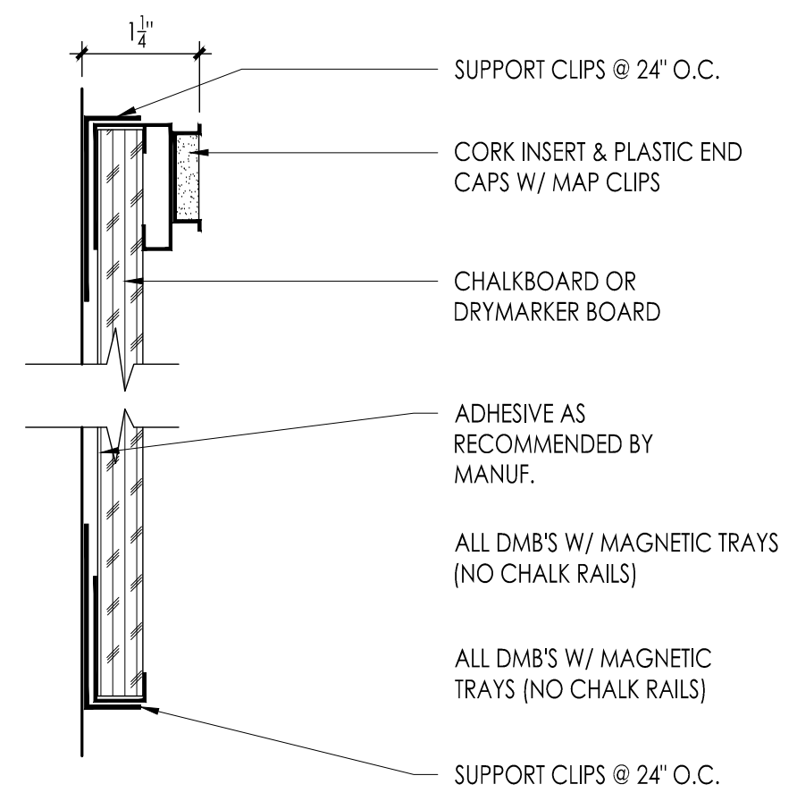

$6\frac{1}{2}$"
3"
SNAP-OUT ACCESS CAP
LO SERIES GROMMET "KING KONG MODEL" # LO-3 DOUG MOCKETT & CO., INC. OR EQUIVALENT

2 Grommet Detail

Scale: 6" = 1'-0"

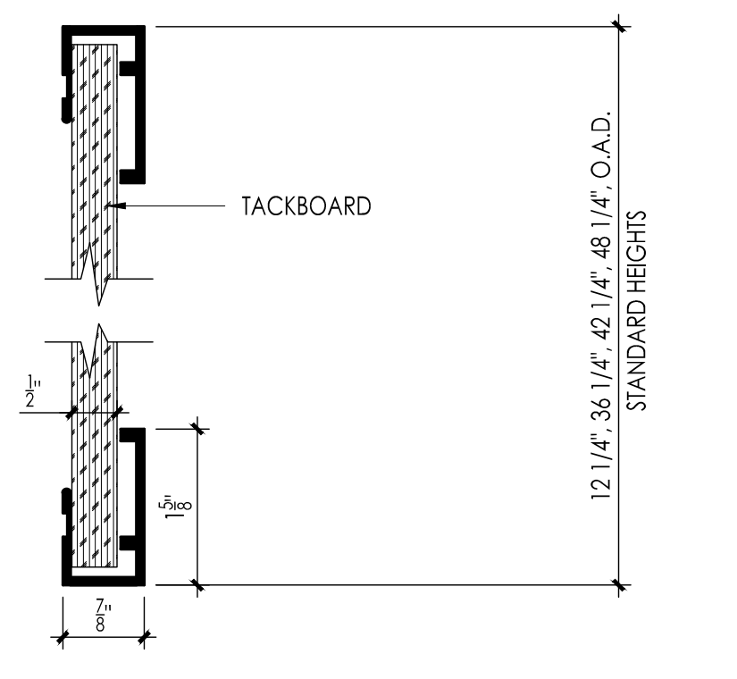
EQUIPMENT LEGEND

DMB	DRY MARKER BOARD
EB	EXHIBITION BOARD
FEC	FIRE EXTINGUISHER AND CABINET
FO	ELECTRICAL FLOOR OUTLET
MB	MARKERBOARD
TB	TACKBOARD
TS	TACKSTRIP


$1\frac{1}{4}$"
SUPPORT CLIPS @ 24" O.C.
CORK INSERT & PLASTIC END CAPS W/ MAP CLIPS
CHALKBOARD OR DRYMARKER BOARD
ADHESIVE AS RECOMMENDED BY MANUF.
ALL DMB'S W/ MAGNETIC TRAYS (NO CHALK RAILS)
ALL DMB'S W/ MAGNETIC TRAYS (NO CHALK RAILS)
SUPPORT CLIPS @ 24" O.C.

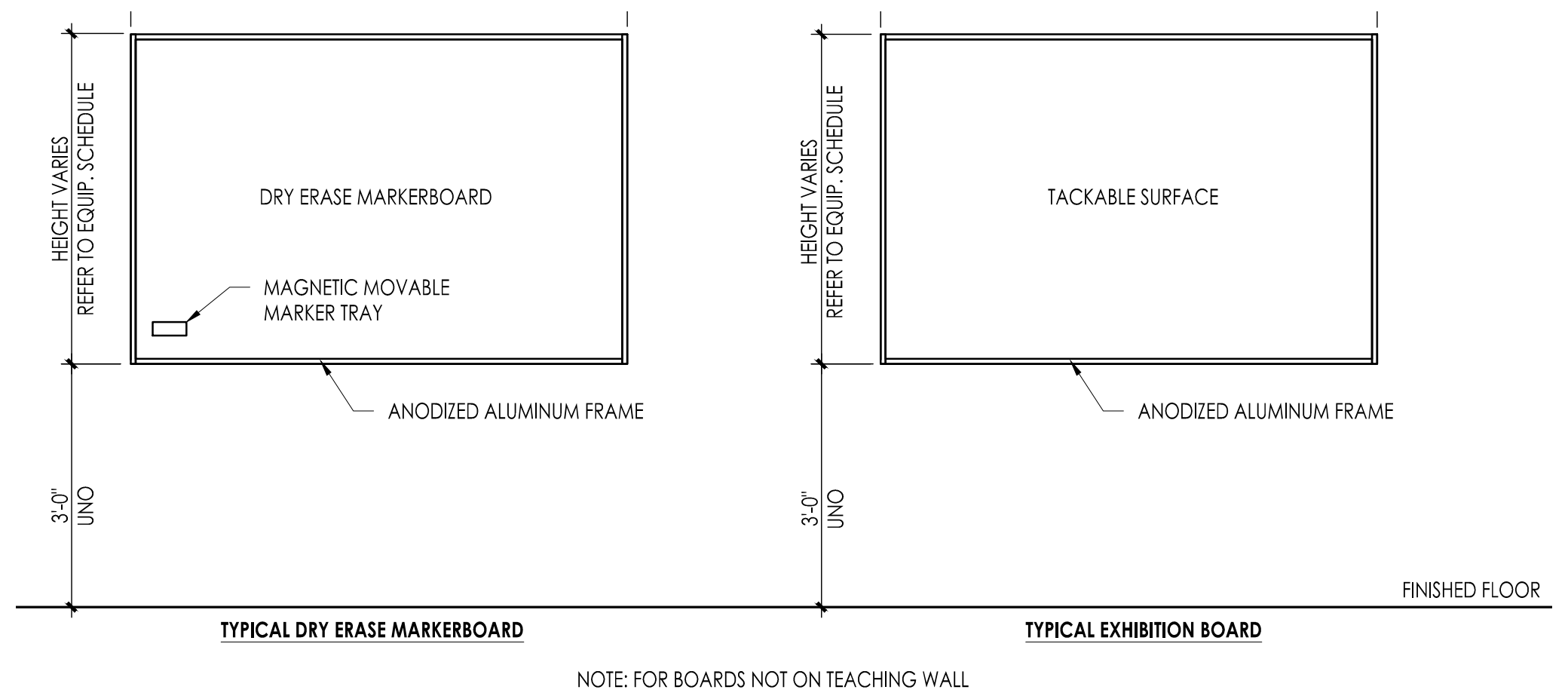
3 TYP. MARKERBOARD SECTION DETAIL

6" = 1'-0"



4 TYP. EXHIBITION BOARD SECTION DETAIL

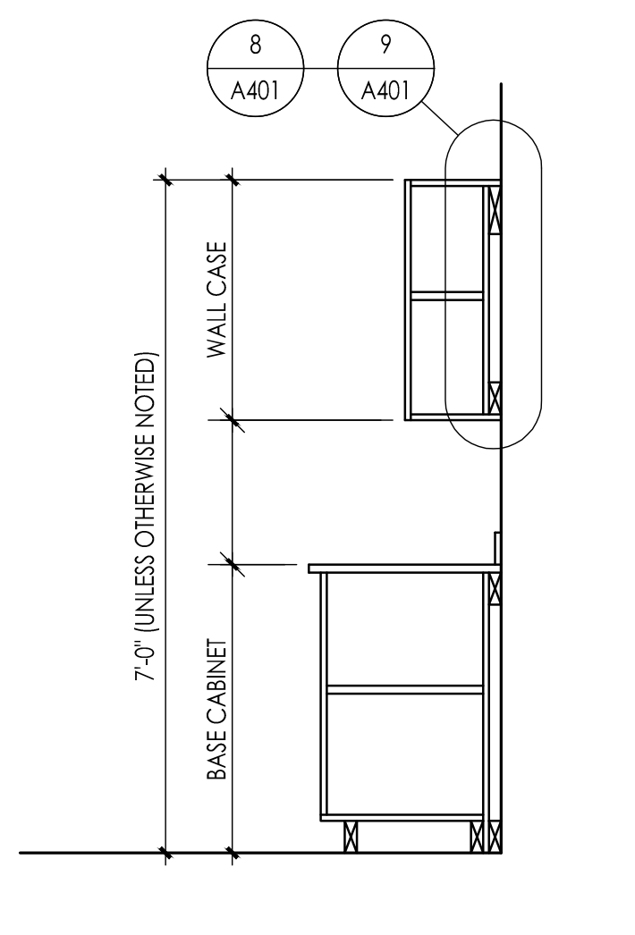
6" = 1'-0"



NOTE: FOR BOARDS NOT ON TEACHING WALL

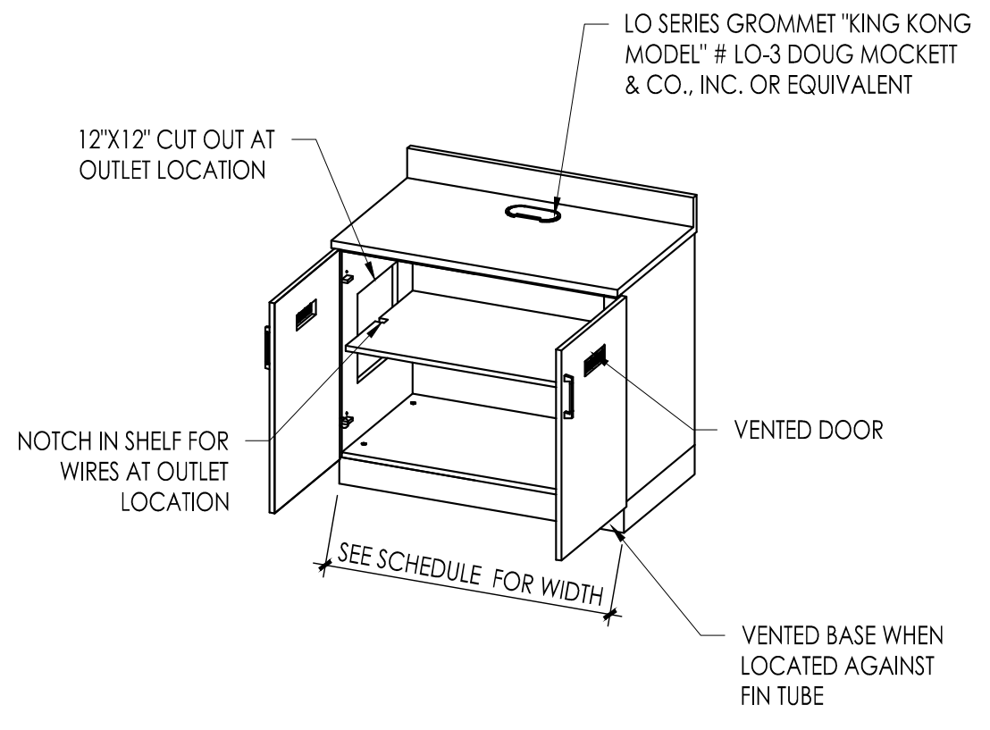
5 DRY MARKERBOARD AND EXHIBITION BOARD MOUNTING HEIGHTS

1/2" = 1'-0"



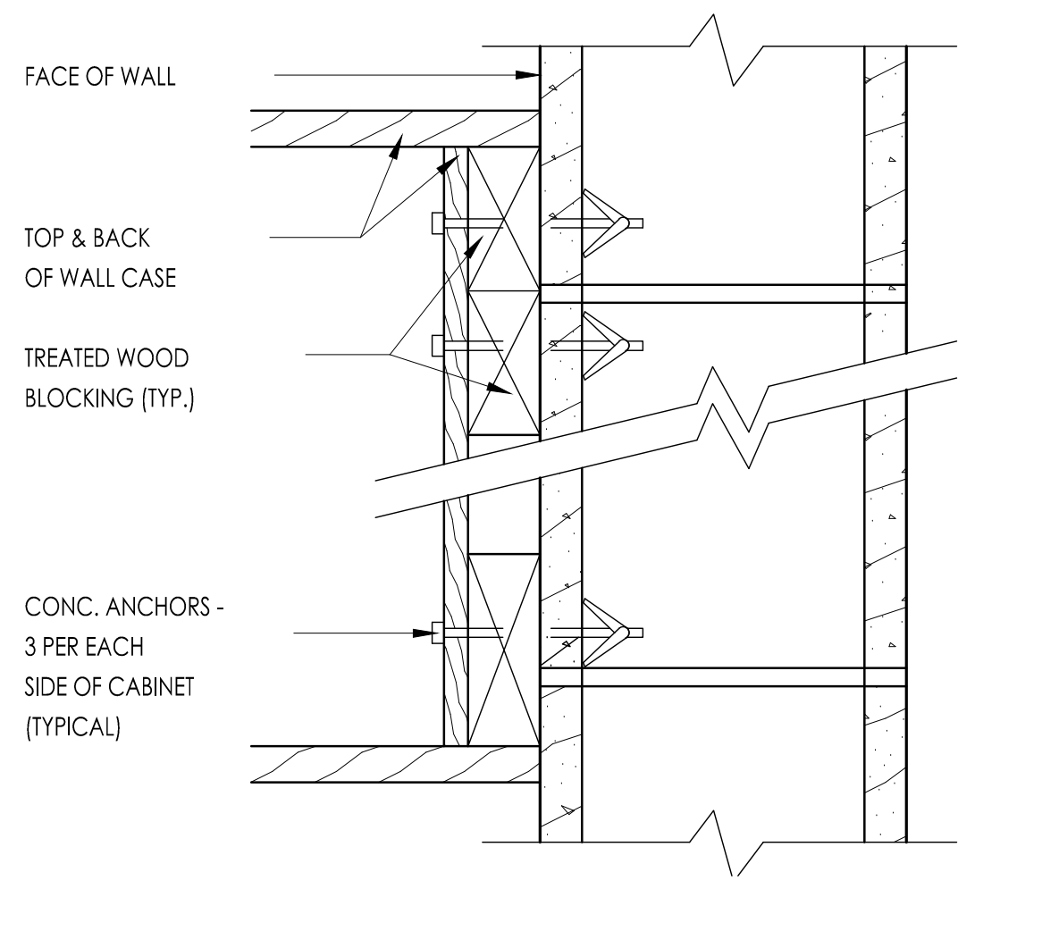
6 CASEWORK DETAIL

Scale: 1/2" = 1'-0"


LO SERIES GROMMET "KING KONG MODEL" # LO-3 DOUG MOCKETT & CO., INC. OR EQUIVALENT
12"X12" CUT OUT AT OUTLET LOCATION
NOTCH IN SHELF FOR WIRES AT OUTLET LOCATION
VENTED DOOR
SEE SCHEDULE FOR WIDTH
VENTED BASE WHEN LOCATED AGAINST FIN TUBE

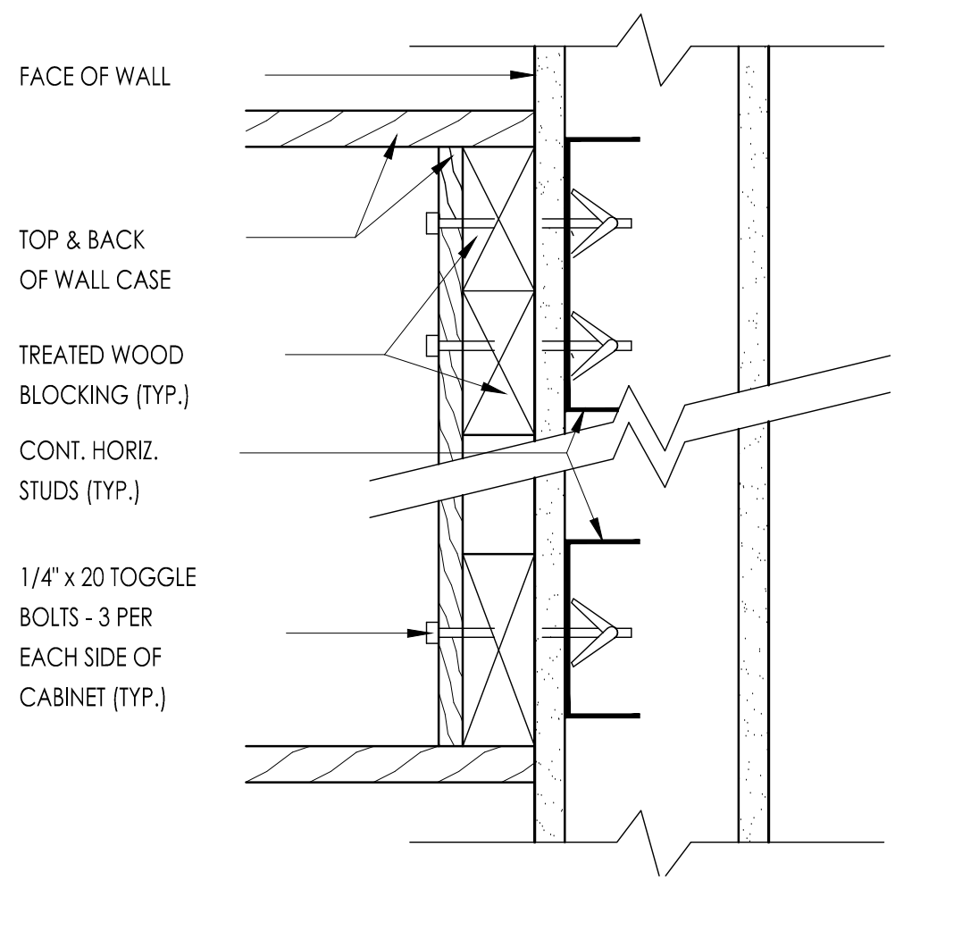
7 AV CABINET DETAIL

Scale: 1/2" = 1'-0"


FACE OF WALL
TOP & BACK OF WALL CASE
TREATED WOOD BLOCKING (TYP.)
CONC. ANCHORS - 3 PER EACH SIDE OF CABINET (TYPICAL)

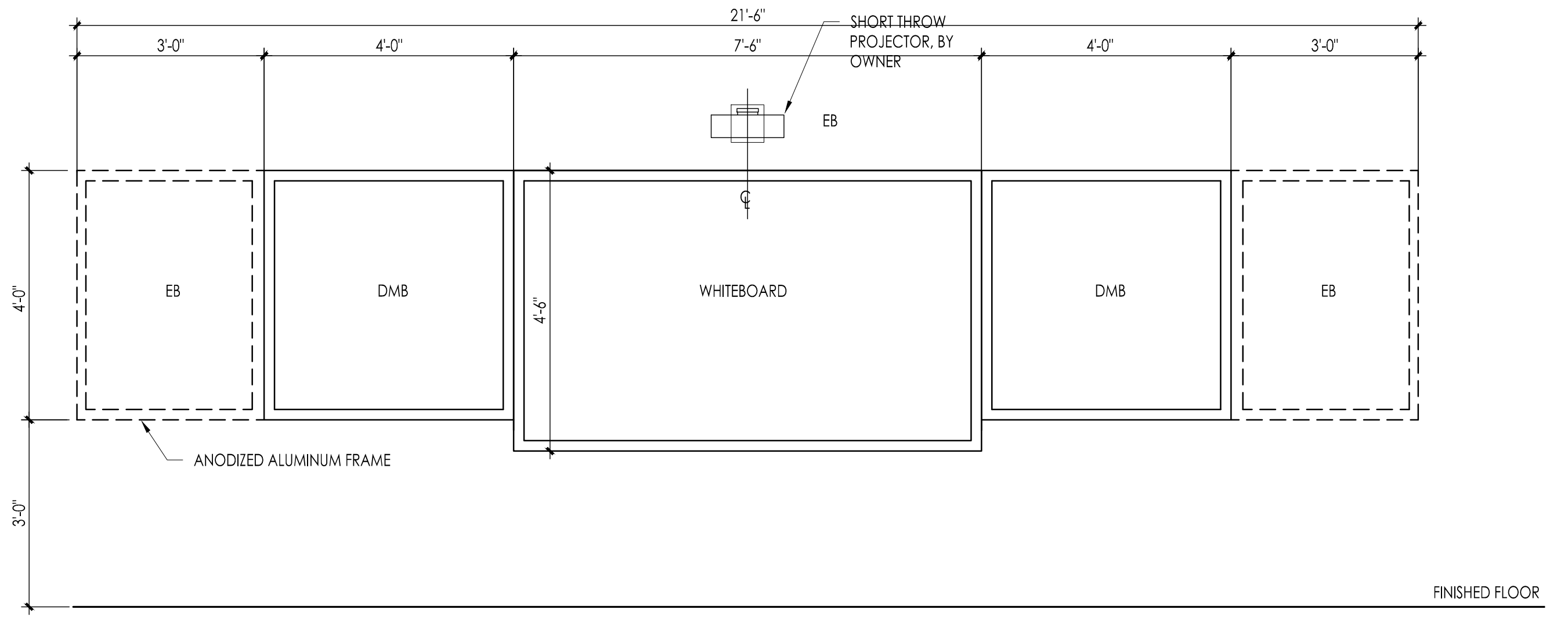
8 WALL CABINET MOUNTING DETAIL - CMU WALL

Scale: 1/2" = 1'-0"


FACE OF WALL
TOP & BACK OF WALL CASE
TREATED WOOD BLOCKING (TYP.)
CONT. HORIZ. STUDS (TYP.)
1/4" x 20 TOGGLE BOLTS - 3 PER EACH SIDE OF CABINET (TYP.)

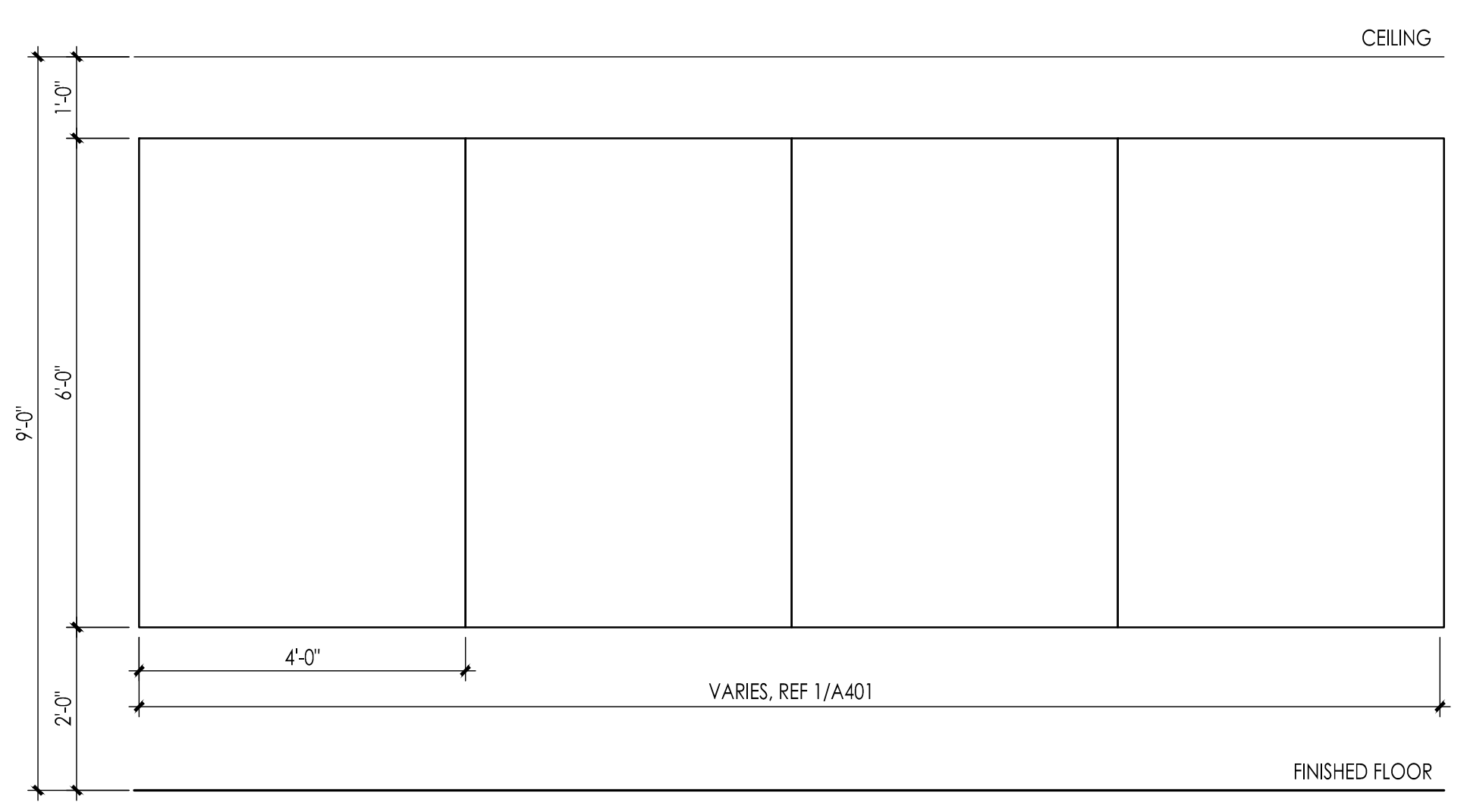
9 WALL CABINET MOUNTING DETAIL - STUD WALL

Scale: 1/2" = 1'-0"



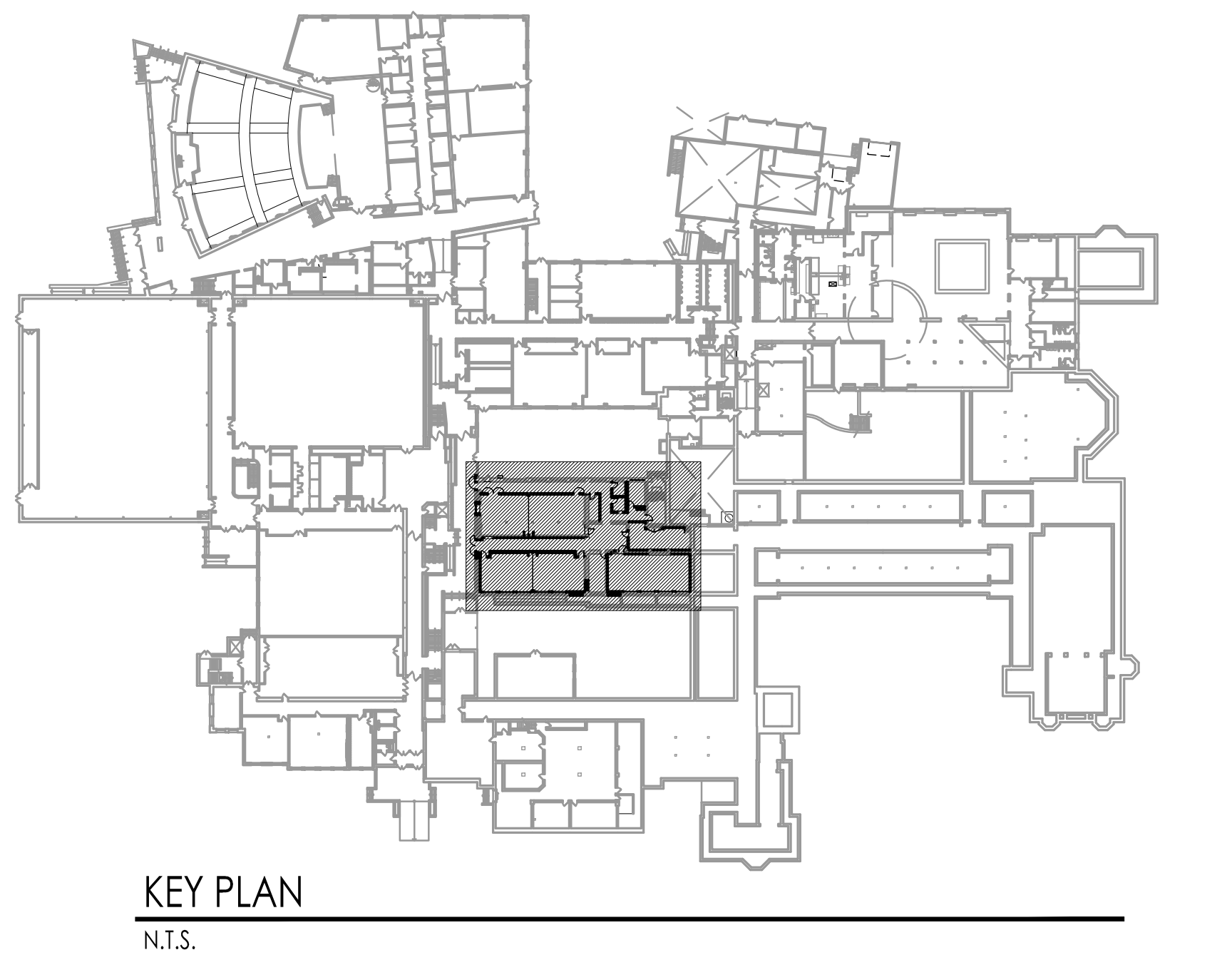
10 TYP. TEACHING WALL ELEVATION

1/2" = 1'-0"



11 TYP. GALLERY DISPLAY WALL

1/2" = 1'-0"



KEY PLAN

N.T.S.

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ - 21AI01706000 | PA - RA012520X
JASON J. DUBOWITCH, AIA
NJ - 21AI01979800 | PA - RA406009
STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C
NJ - 21AI02003100 | PA - RA410435

William D. Hopkins
Architect

2/6/26
Date

FVHD architects planners
EST 1918
Fraytak Veisz Hopkins Duthie PC
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08618
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 19453
FVHDPC.COM

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street, Princeton, NJ 08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
WDH

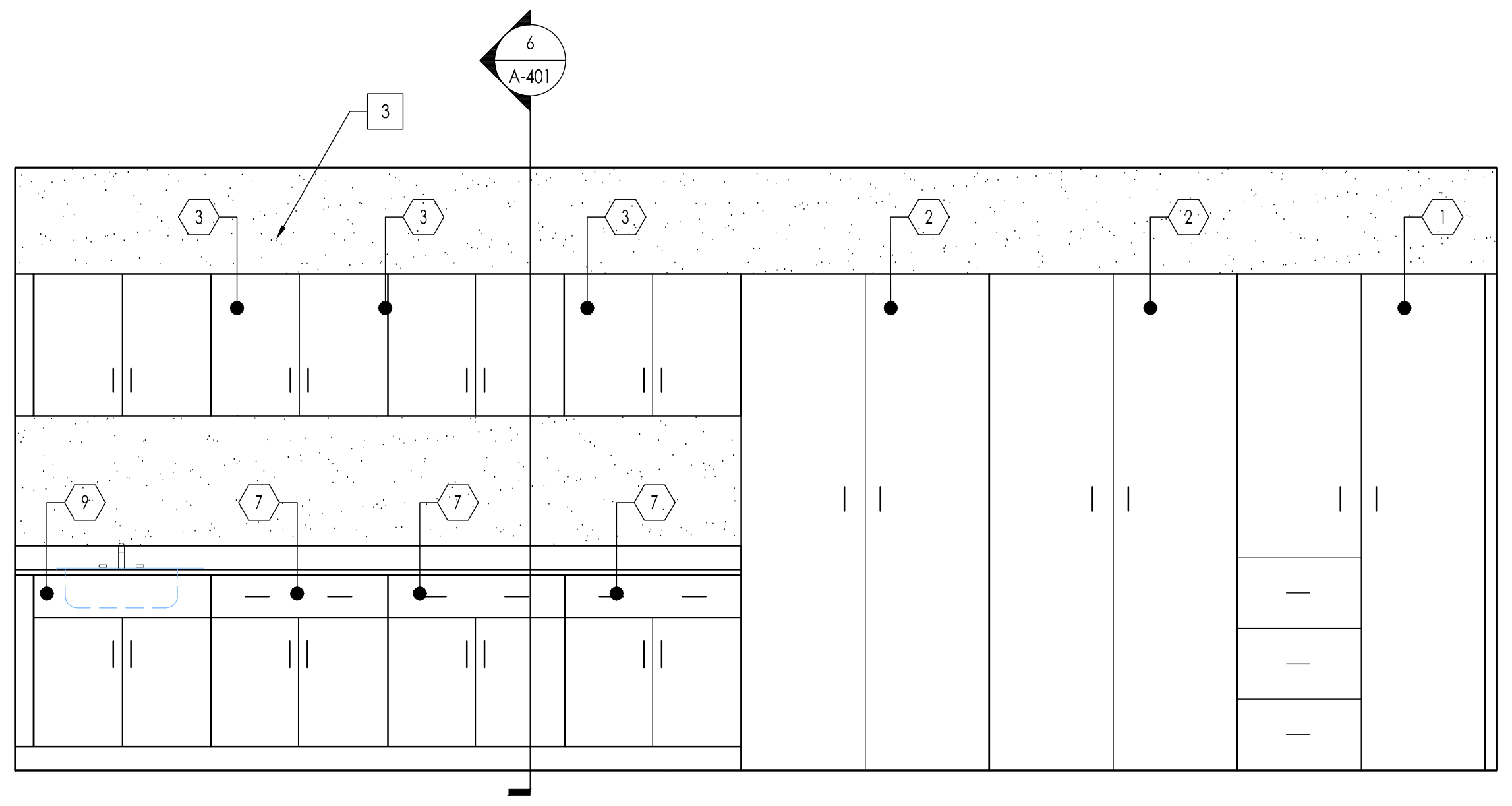
Drawn By
JEK

Scale
AS NOTED

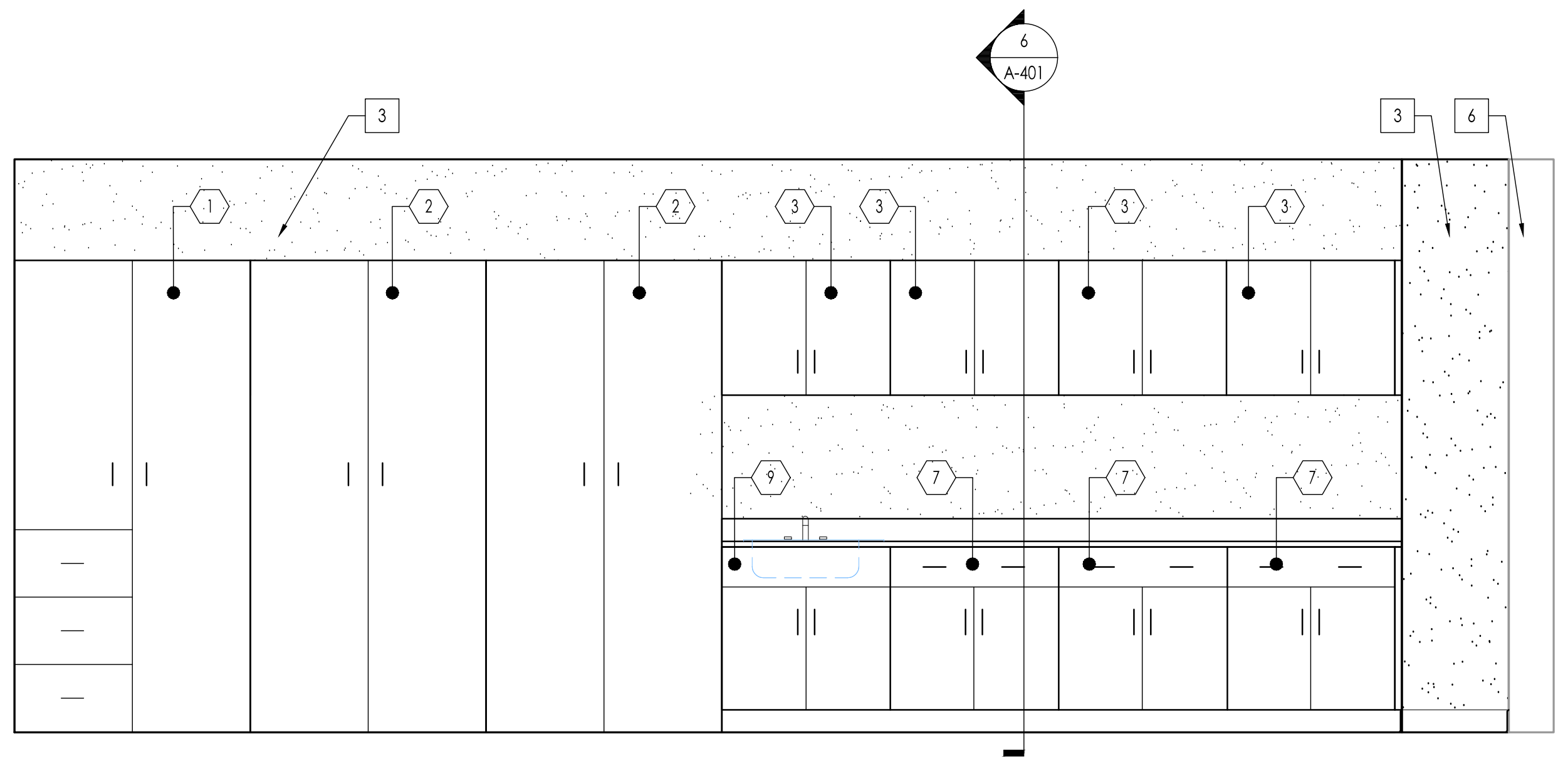
Drawing Name
ROOM LAYOUTS

Revisions		
No.	Date	Description

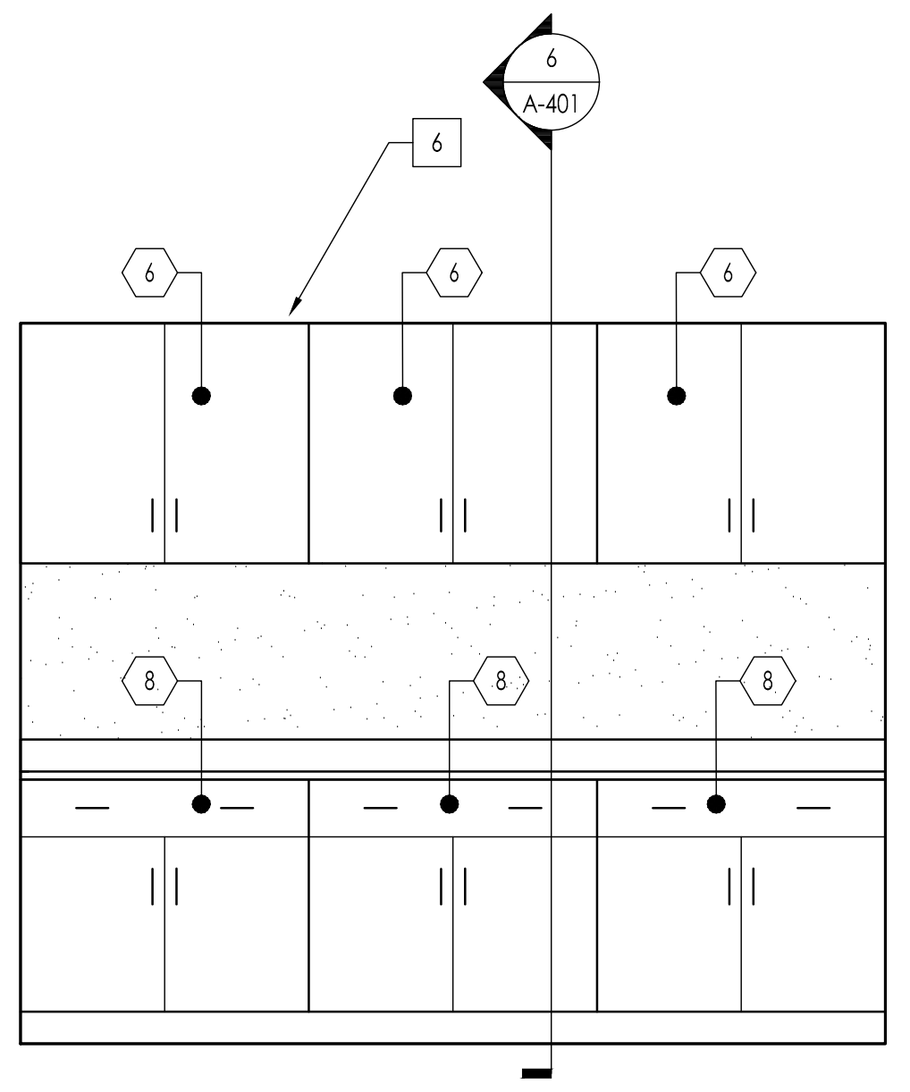
Drawing Number
A401



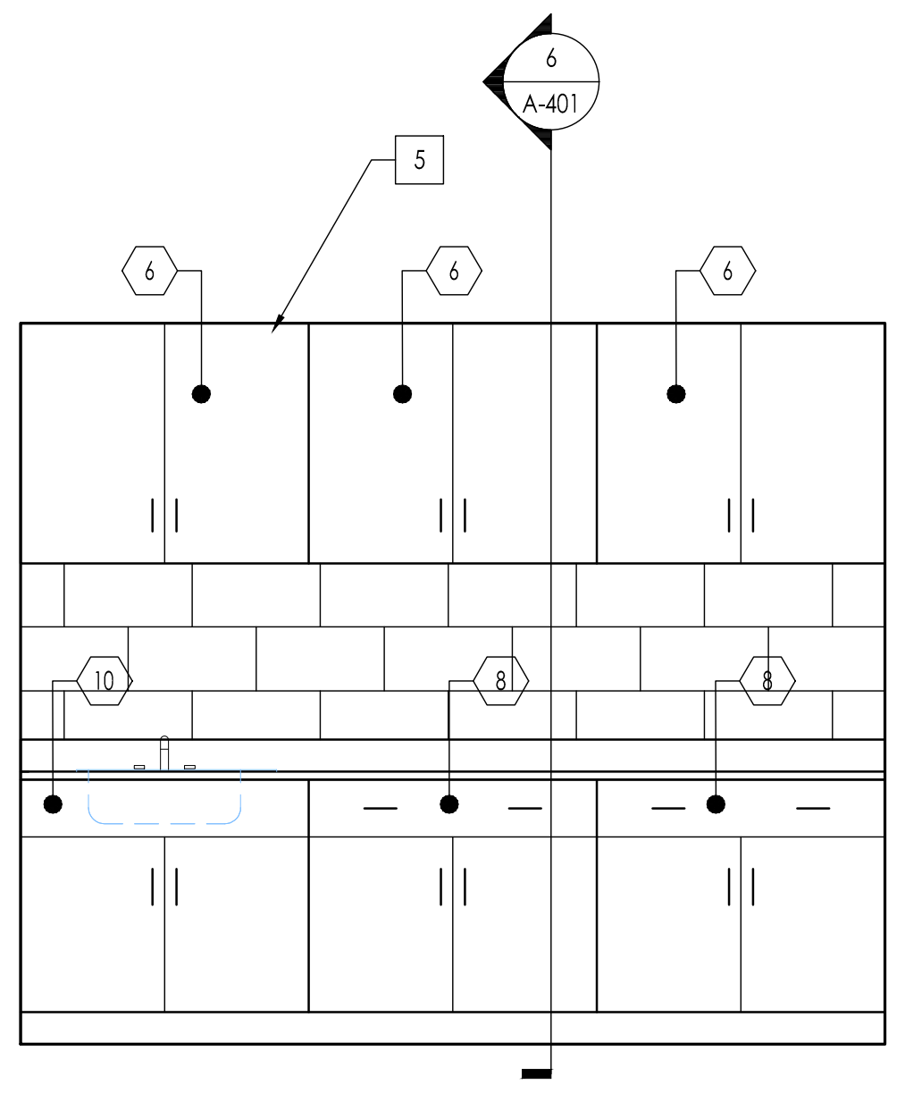
1 FLEX CLASSROOM 037A + 037B MIRRORED
1/2"=1'-0"



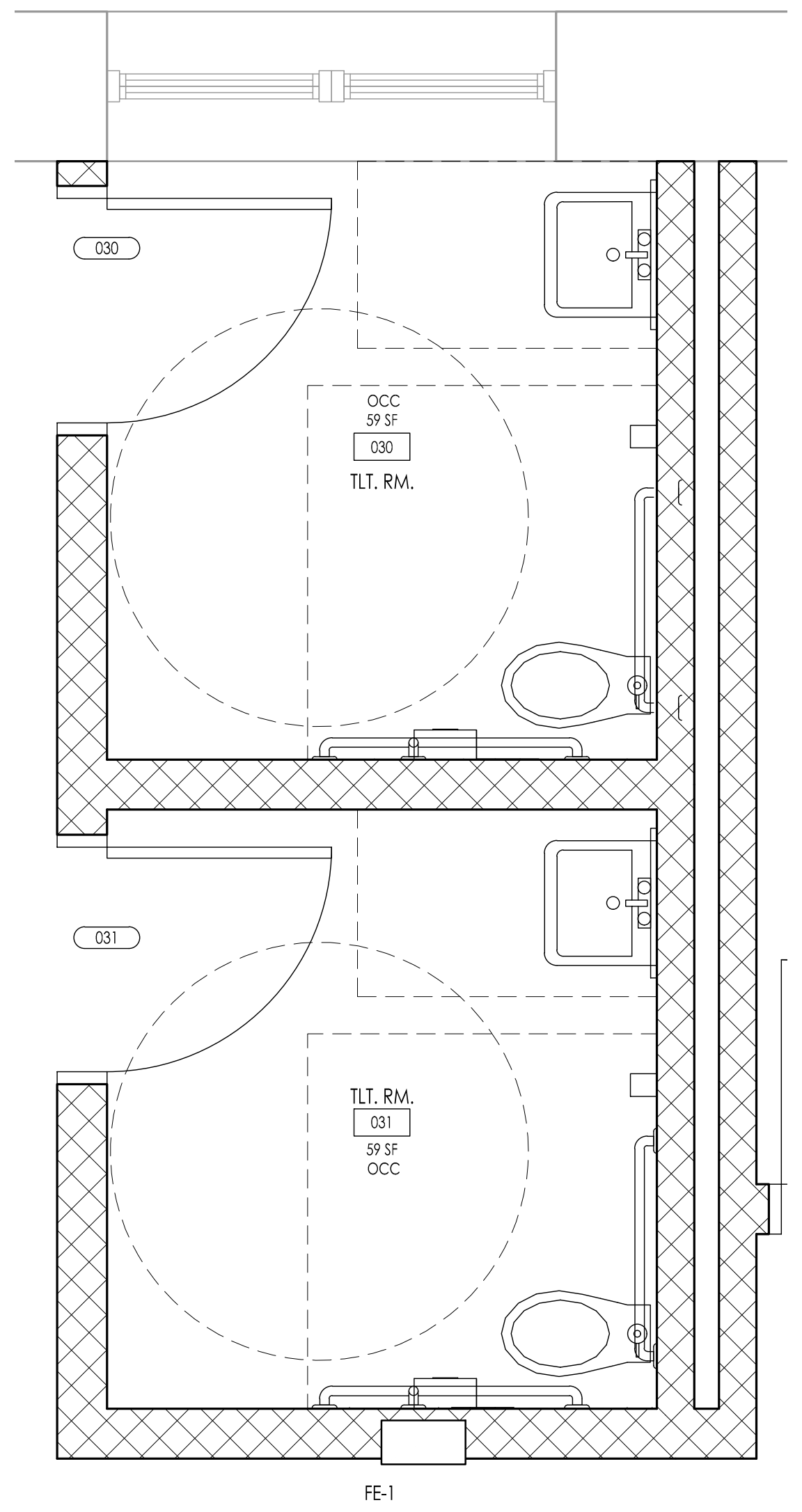
2 CLASSROOM 035
1/2"=1'-0"



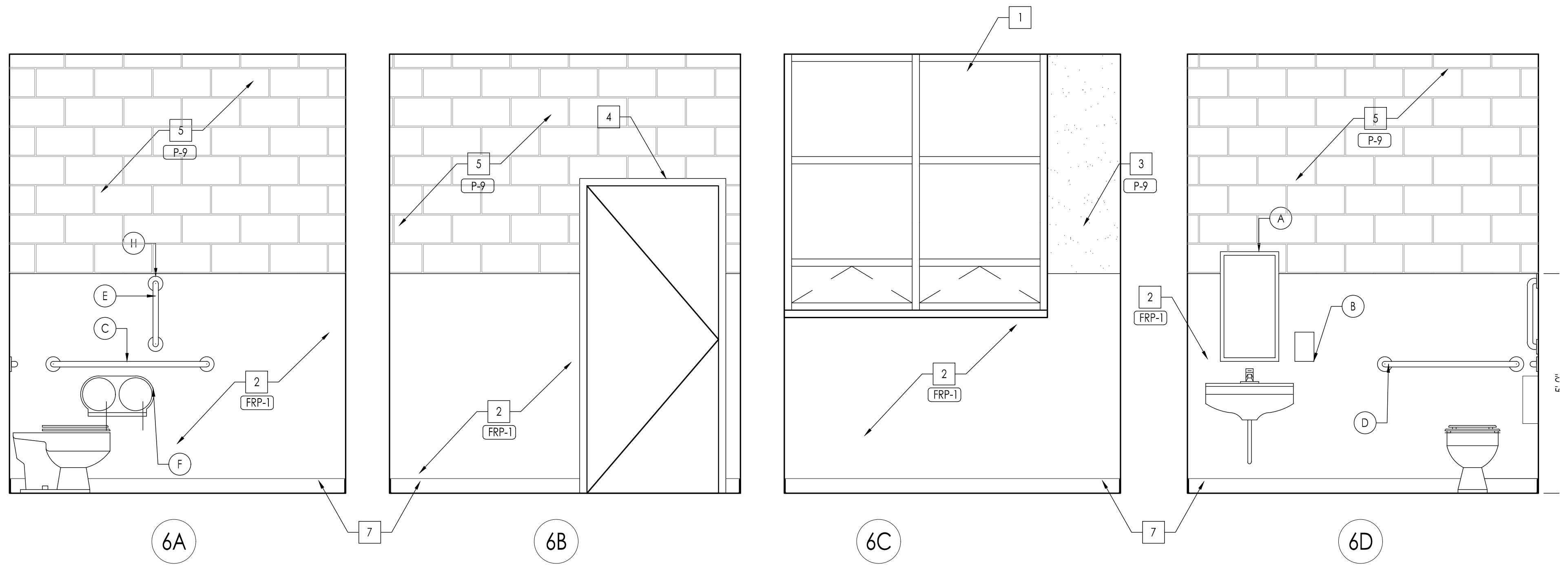
3 CONFERENCE 034
1/2"=1'-0"



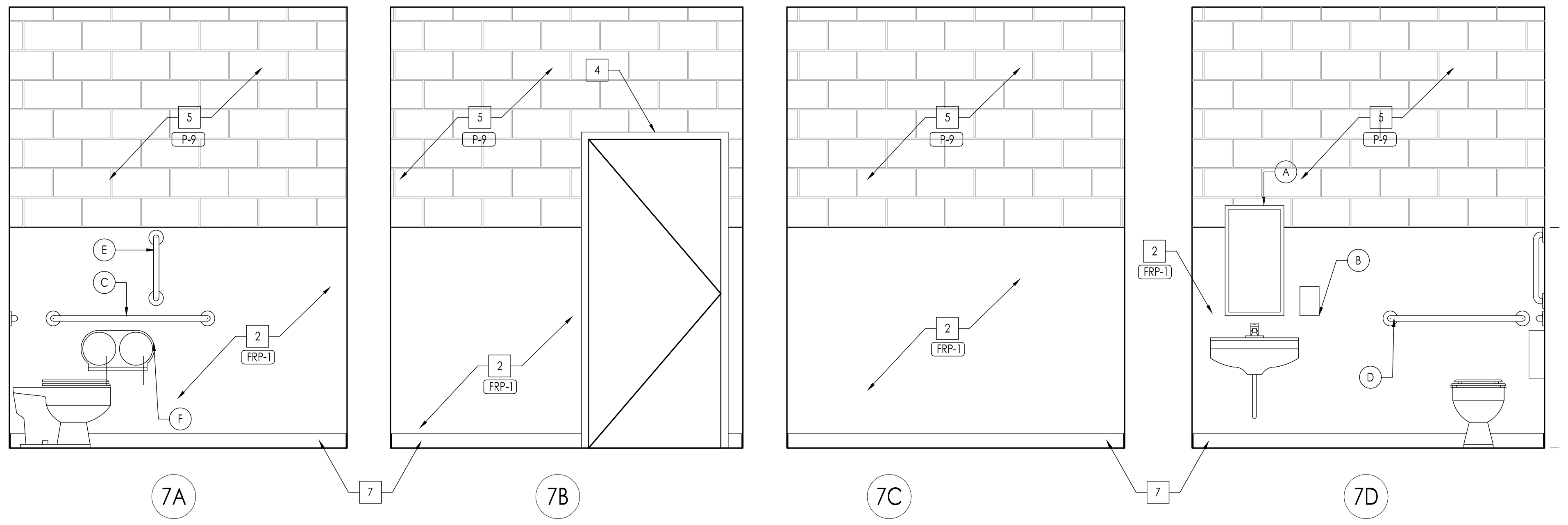
4 CONFERENCE 034
1/2"=1'-0"



5 TOILET ROOM 030 + 031
1/2"=1'-0"



6 TOILET ROOM 030
1/2"=1'-0"



7 TOILET ROOM 031
1/2"=1'-0"

KEY NOTE LEGEND

1	EXISTING WINDOW + FRAMES, PROVIDE FROSTED PRIVACY WINDOW FILM.
2	FRP WALL PANEL, REFER TO A700 SERIES DRAWING FOR DETAILS.
3	$\frac{5}{8}$" GYP BOARD PAINTED, REFER TO A700 SERIES DRAWINGS FOR FINISHES
4	WOOD DOOR AND HOLLOW METAL FRAME, REFER TO DOOR SCHEDULE
5	CMU PAINTED, REFER TO A700 SERIES DRAWINGS FOR FINISHES
6	EXISTING WALL PAINTED, REFER TO A700 SERIES DRAWINGS FOR FINISHES
7	RESILIENT SHEET FLOORING WITH INTEGRAL 4" WALL BASE, REFER TO A700 SERIES DRAWINGS FOR FINISHES

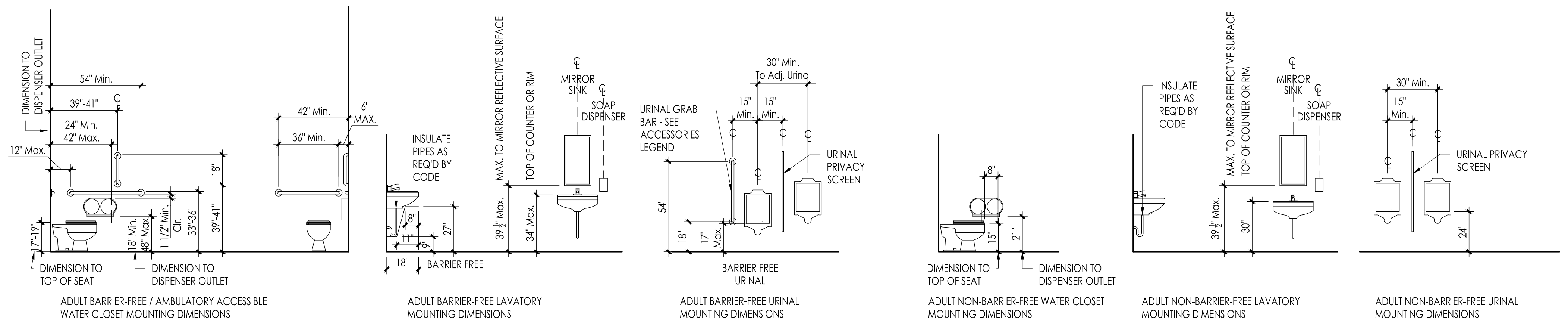
CASEWORK SCHEDULE X

ITEM NO.	DESCRIPTION	MANUFACTURER	CAT. NO.	WIDTH	DEPTH	HEIGHT	REMARKS	FNISH
1	TEACHER WARDROBE	CAMPBELL RHEA	6954-A	42"	22 $\frac{1}{2}$"	84"	DBL. DOOR. L-1 FIXED SHELF, 3 ADJUSTABLE SHELVES. R-1 HANGER ROD, 1 FIXED SHELF	TBD
2	TALL CABINET	CAMPBELL RHEA	5690	42"	22 $\frac{1}{2}$"	84"	DBL. DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES	TBD
3	UPPER CABINET	CAMPBELL RHEA	4692	30"	12"	23 $\frac{3}{4}$"	DBL. DOOR, 1 ADJUSTABLE SHELF	TBD
4	NOT USED	--	--	--	--	--	--	TBD
5	NOT USED	--	--	--	--	--	--	TBD
6	UPPER CABINET	CAMPBELL RHEA	4718	36"	12"	31 $\frac{1}{4}$"	DBL. DOOR, 2 ADJUSTABLE SHELVES	TBD
7	BASE CABINET	CAMPBELL RHEA	1504	30"	22 $\frac{1}{2}$"	35"	DBL. DOOR, 1 ADJUSTABLE SHELF	TBD
8	BASE CABINET	CAMPBELL RHEA	1506	36"	22 $\frac{1}{2}$"	35"	DBL. DOOR, 1 ADJUSTABLE SHELF	TBD
9	SINK BASE CABINET	CAMPBELL RHEA	2356	30"	22 $\frac{1}{2}$"	35"	SINK BASE CABINET DOUBLE DOORS	TBD
10	SINK BASE CABINET	CAMPBELL RHEA	2358	36"	22 $\frac{1}{2}$"	35"	SINK BASE CABINET DOUBLE DOORS	TBD

TOILET ACCESSORY LEGEND X

ITEM NO.	DESCRIPTION	MANUFACTURER	MODEL #	FURNISHED BY	INSTALLED BY	COMMENTS
A	MIRROR	BRADLEY OR APPROVED EQUAL	747-024362	CONTRACTOR	CONTRACTOR	DBL. DOOR. L-1 FIXED SHELF, 3 ADJUSTABLE SHELVES. R-1 HANGER ROD, 1 FIXED SHELF
B	SOAP DISPENSER (SURFACE-MOUNTED TANK TYPE VERTICAL)	TBD	TBD	OWNER	CONTRACTOR	DBL. DOOR. 1 FIXED SHELF, 4 ADJUSTABLE SHELVES
C	36" HORIZONTAL GRAB BAR	BRADLEY OR APPROVED EQUAL	8570-001360	CONTRACTOR	CONTRACTOR	DBL. DOOR, 1 ADJUSTABLE SHELF
D	42" HORIZONTAL GRAB BAR	BRADLEY OR APPROVED EQUAL	8570-001420	CONTRACTOR	CONTRACTOR	--
E	18" VERTICAL GRAB BAR	BRADLEY OR APPROVED EQUAL	8570-001180	CONTRACTOR	CONTRACTOR	--
F	TOILET TISSUE DISPESER	TBD	TBD	OWNER	CONTRACTOR	DBL. DOOR, 2 ADJUSTABLE SHELVES
G	NOT USED	--	--	--	–	DBL. DOOR, 1 ADJUSTABLE SHELF
H	PAPER TOWEL DISPENSER	TBD	TBD	OWNER	CONTRACTOR	DBL. DOOR, 1 ADJUSTABLE SHELF

STANDARD TOILET ACCESSORY MOUNTING HEIGHTS



ADULT BARRIER-FREE / AMBULATORY ACCESSIBLE WATER CLOSET MOUNTING DIMENSIONS

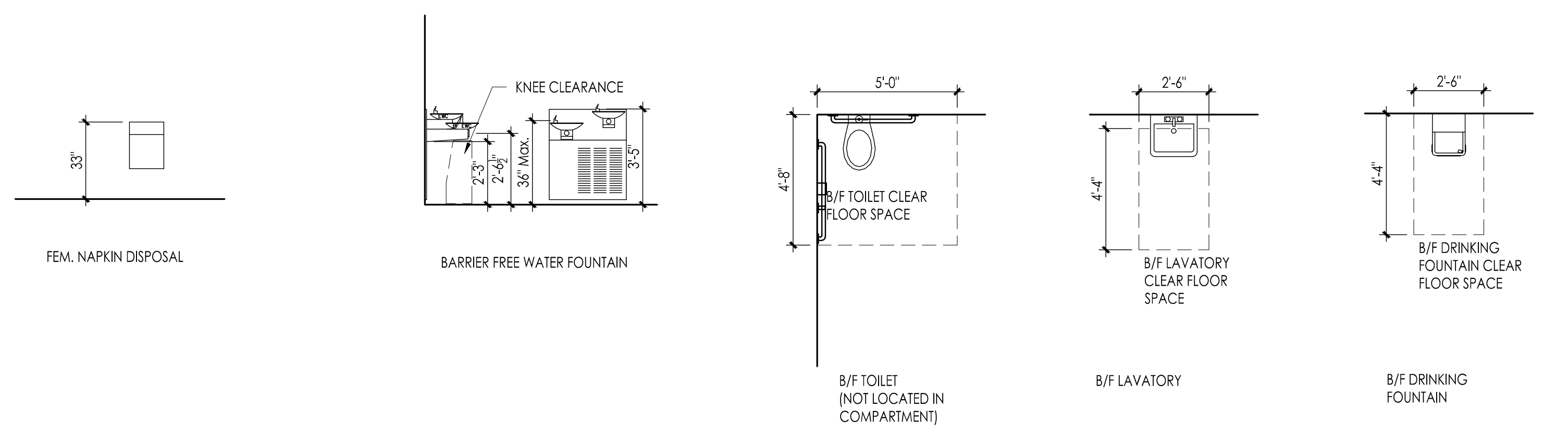
ADULT BARRIER-FREE LAVATORY MOUNTING DIMENSIONS

ADULT BARRIER-FREE URINAL MOUNTING DIMENSIONS

ADULT NON-BARRIER-FREE WATER CLOSET MOUNTING DIMENSIONS

ADULT NON-BARRIER-FREE LAVATORY MOUNTING DIMENSIONS

ADULT NON-BARRIER-FREE URINAL MOUNTING DIMENSIONS


33"
KNEE CLEARANCE
2'-3"
2'-6 1/2"
36" Max.
3'-5"
5'-0"
4'-8"
B/F TOILET CLEAR FLOOR SPACE
2'-6"
4'-4"
B/F LAVATORY CLEAR FLOOR SPACE
2'-6"
4'-4"
B/F DRINKING FOUNTAIN CLEAR FLOOR SPACE

FEM. NAPKIN DISPOSAL

BARRIER FREE WATER FOUNTAIN

B/F TOILET (NOT LOCATED IN COMPARTMENT)

B/F LAVATORY

B/F DRINKING FOUNTAIN

NOTES:
1. DIMENSIONS SHALL BE NET CLEAR DISTANCES MEASURED TO WALL FINISHES (EG CERAMIC OR PORCELAIN TILE), TO FACE OF TOILET PARTITIONS AND TO EDGES OF ADJACENT FIXTURES, CABINETS, ETC.
2. ALL DIMENSIONS ARE MINIMUM UNLESS NOTED OTHERWISE.
3. INSTALLATIONS SHALL COMPLY WITH ALL PROVISIONS OF ICC-ANSI A117 . 1 - 2017, INCLUDING BUT NOT LIMITED TO:
   - 3.1. SECTION 602 (DRINKING FOUNTAINS)
   - 3.2. SECTION 603 (TOILET AND BATHING ROOMS)
   - 3.3. SECTION 604 (WATER CLOSETS AND TOILET COMPARTMENTS)
   - 3.4. SECTION 605 (URINALS)
   - 3.5. SECTION 606 (LAVATORIES AND SINKS)
   - 3.6. SECTION 608 (SHOWER COMPARTMENTS)
   - 3.7. SECTION 609 (GRAB BARS)
   - 3.8. SECTION 610 (SEATS)
4. CLEAR FLOOR SPACES MAY OVERLAP WHERE SPECIFICALLY PERMITTED IN ICC-ANSI A117 . 1 - 2017 CHAPTER 6.

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
WDH

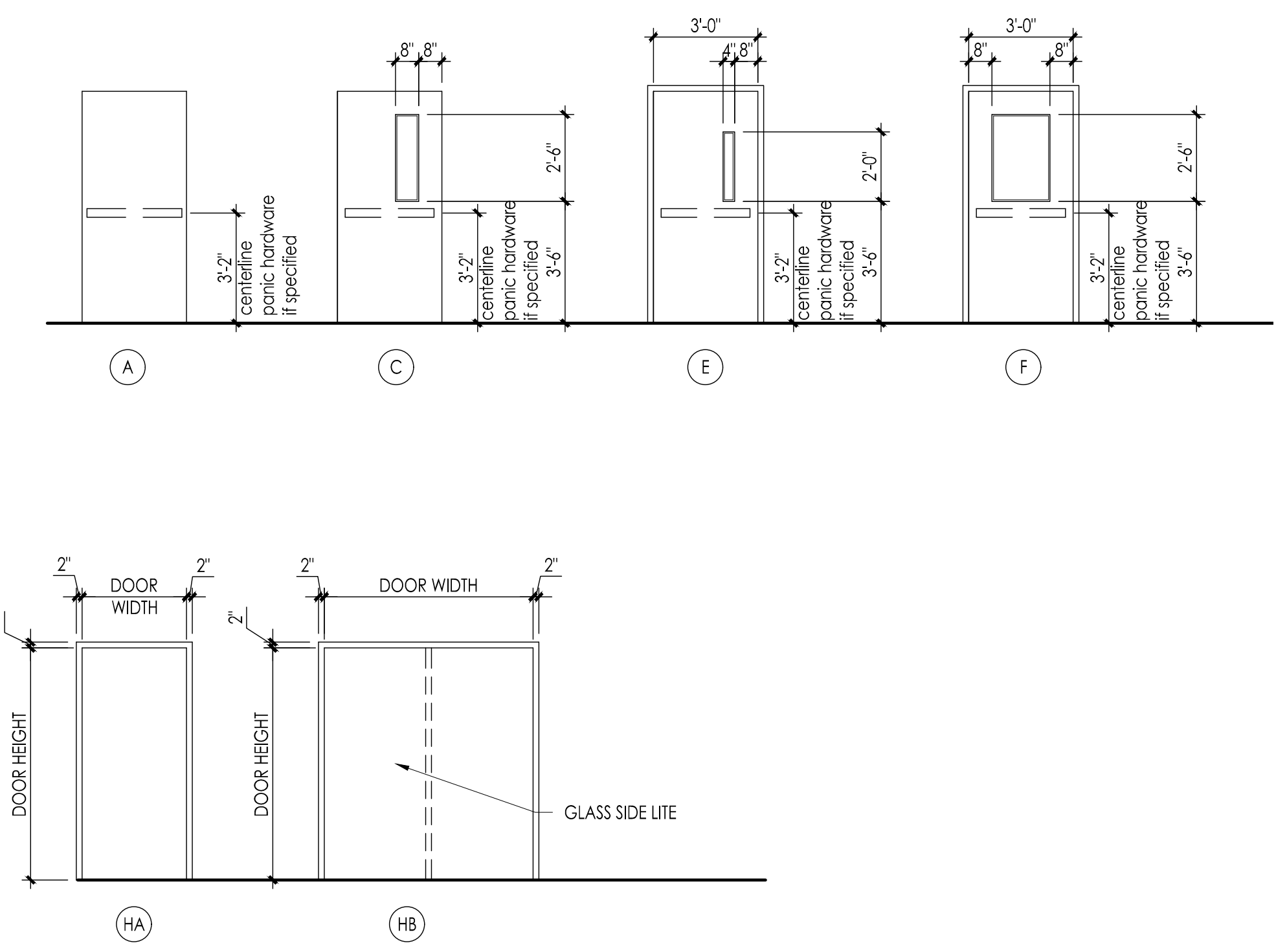
Drawn By
JEK

Scale
AS NOTED

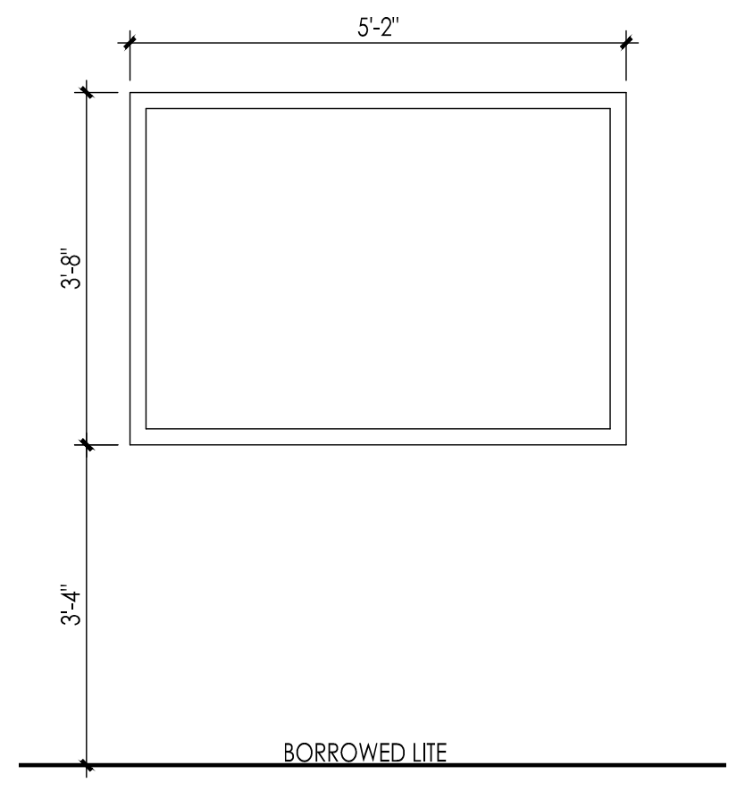
Drawing Name
INTERIOR ELEVATIONS AND TOILET ROOMS

Revisions		
No.	Date	Description

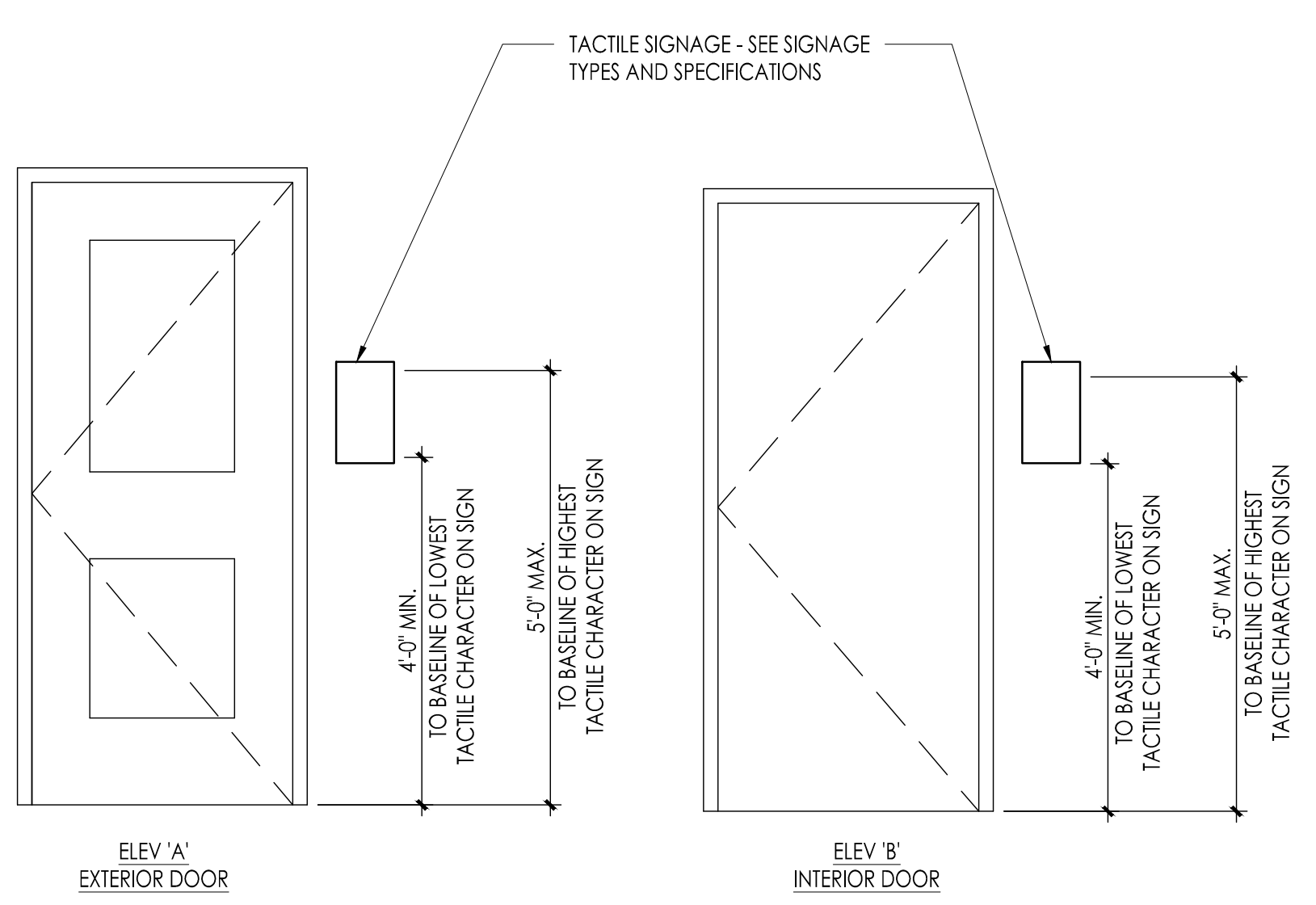
Drawing Number
A402



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



2 BORROWED LITE ELEVATION
1/2" = 1'-0"


TACTILE SIGNAGE - SEE SIGNAGE TYPES AND SPECIFICATIONS
4'-0" MIN. TO BASELINE OF LOWEST TACTILE CHARACTER ON SIGN
5'-0" MAX. TO BASELINE OF HIGHEST TACTILE CHARACTER ON SIGN
ELEV 'A'
EXTERIOR DOOR
ELEV 'B'
INTERIOR DOOR

SIGNAGE LOCATIONS:
SINGLE LEAF DOORS - LATCH SIDE
DOUBLE LEAF DOORS - TO THE RIGHT SIDE OF RIGHT LEAF
WHERE NO SPACE IS AVAILABLE - NEAREST ADJACENT WALL

3 SIGNAGE LOCATION DETAILS
1/2" = 1'-0"

DOOR AND FRAME SCHEDULE

DR NO	DOOR LOCATION	DOOR				FRAME					HARDWARE	RATING	SIGN TYPE	NOTES
		SIZE	TYPE	MATL	GLAZING	TYPE	MATL	DETAIL						
								HEAD	JAMB	SADDLE				
027A-1	GALLERYA 027A	2 @ 3'-0" x 7'-0"	F	WD	FRIG-1	HB	HM	S2	J5	H5	EXD-2F	20 MIN.	9	6
027A-2	GALLERYA 027A	4'-10" x 3'-4"	--	--	FRIG-1	HA	HM	S4	J4	H4	--	90 MIN.	--	4, 6
027B-1	GALLERYB 027B	3'-0" x 7'-0"	F	WD	FRIG-1	HA	HM	S2	J5	H5	EXD-1E	20 MIN.	9	6
027B-2	GALLERYB 027B	3'-2" x 7'-0"	F	WD	FRIG-1	HA	HM	--	--	--	EXD-1E	20 MIN.	8	3, 6
030	TLT. RM. 030	3'-0" x 7'-0"	A	WD	--	HA	HM	S5	J1	H1	TRS-04	20 MIN.	29	6
031	TLT. RM. 031	3'-0" x 7'-0"	A	WD	--	HA	HM	S5	J1	H1	TRS-04	20 MIN.	29	6
032	STORAGE 032	3'-0" x 7'-0"	A	WD	--	HA	HM	S2	J1	H1	STO-1	20 MIN.	29	6
033	STOR./MECH. 033	3'-0" x 7'-0"	A	WD	FRIG-1	HA	HM	S2	J1	H1	STO-1	20 MIN.	8	6
034-1	CONFERENCEROOM 034	3'-0" x 7'-0"	C	WD	FRIG-1	HA	HM	S1	J2	H2	CRS-04	20 MIN.	9	6
034-2	CONFERENCE IT	2 @ 4'-0" x 7'-0"	A	WD	--	HB	HM	S1	J6	H6	STO-2	--	--	6
035	CLASSROOM 035	2'-8" x 7'-8"	C	WD	FRIG-1	HA	HM	S1	J2	H2	CRS-04	20 MIN.	8	6
036	OFFICE 036	2'-8" x 7'-8"	C	WD	FRIG-1	HA	HM	--	--	--	OF-1	20 MIN.	9	3, 6
037A	FLEXCLASSROOM 037A	3'-0" x 7'-0"	C	WD	FRIG-1	HA	HM	S1	J1	H1	EXD-1E	20 MIN.	8	6
037B	FLEXCLASSROOM 037B	3'-0" x 7'-0"	C	WD	FRIG-1	HA	HM	S1	J1	H1	EXD-1E	20 MIN.	8	6
C001-1	CORRIDOR C001	3'-6" x 7'-0"	E	WD	FRIG-1	HA	HM	S3	J1	H3	EXD-1G	90 MIN.	--	5, 6
C002-1	CORRIDOR C002	2 @ 2'-10" x 6'-10"	E	WD	FRIG-1	HB	HM	S3	J3	H3	EXD-2G	90 MIN.	--	5, 6
S1	STAIR S1	3'-0" x 7'-8"	E	WD	FRIG-1	HA	HM	--	--	--	EXD-1D	45 MIN.	4	1, 2, 3, 6

DOOR SCHEDULE NOTES

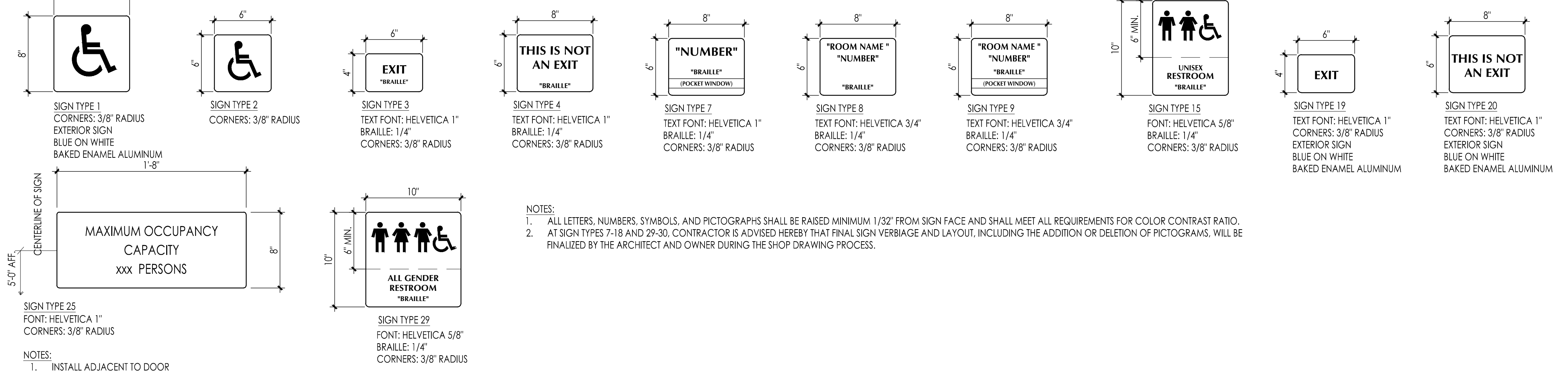
1. PROXIMITY READER BY OWNER'S VENDOR - SEE GENERAL DOOR NOTE 7 AND ELECT. DRAWINGS.
2. DOOR RATED FOR STAIR TOWER CONSTRUCTION.
3. EXISTING DOOR & FRAMED REPLACED WITH NEW, VERIFY EXISTING OPENING WIDTH IN FIELD.
4. BORROWED LITE IN HOLLOW METAL FRAME, REFER TO FRAME TYPES FOR DETAILS.
5. DOOR HOLD OPENS, COORDINATE WITH ELECTRICAL PLANS.
6. PAINT HOLLOW METAL FRAMES, P-5.

GENERAL DOOR NOTES

1. ALL DOORS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED.
2. SEE DOOR TYPES, HOLLOW METAL FRAME TYPES AND ALUMINUM FRAME TYPES ON THIS DRAWING.
3. SEE SIGNAGE TYPES AND DETAILS ON THIS DRAWING.
4. SEE HEAD, JAMB, SADDLE AND SILL DETAILS ON DRAWING Axxx.
5. SEE STOREFRONT TYPES AND DETAILS ON DRAWING Axxx.
6. SEE CURTAIN WALL TYPES AND DETAILS ON DRAWING Axxx.
7. COORDINATE ALL ACCESS CONTROL PREP AND WIRING WITH ELECTRICAL CONTRACTOR AND OWNER'S VENDOR (TYP.)

ABBREVIATIONS

AL - ALUMINUM
ETR - EXISTING TO REMAIN
FRIG-1 - FIRE-RATED IMPACT-RESISTANT GLAZING - TYPE 1
FRIG-1-F - FIRE-RATED IMPACT-RESISTANT GLAZING - TYPE 1 W/ SECURITY WINDOW FILM
FRP - FIBERGLASS REINFORCED POLYESTER
HM - HOLLOW METAL
INSUL - INSULATED TINTED TEMPERED GLASS
INSUL-F - INSULATED TINTED TEMPERED GLASS W/ SECURITY WINDOW FILM
TPG - TEMPERED PLATE GLASS
TPG-F - TEMPERED PLATE GLASS W/ SECURITY WINDOW FILM
WD - WOOD



SIGN TYPE 1
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

SIGN TYPE 2
CORNERS: 3/8" RADIUS

SIGN TYPE 3
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 4
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 7
TEXT FONT: HELVETICA 1"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 8
TEXT FONT: HELVETICA 3/4"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 9
TEXT FONT: HELVETICA 3/4"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 15
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

SIGN TYPE 19
TEXT FONT: HELVETICA 1"
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

SIGN TYPE 20
TEXT FONT: HELVETICA 1"
CORNERS: 3/8" RADIUS
EXTERIOR SIGN
BLUE ON WHITE
BAKED ENAMEL ALUMINUM

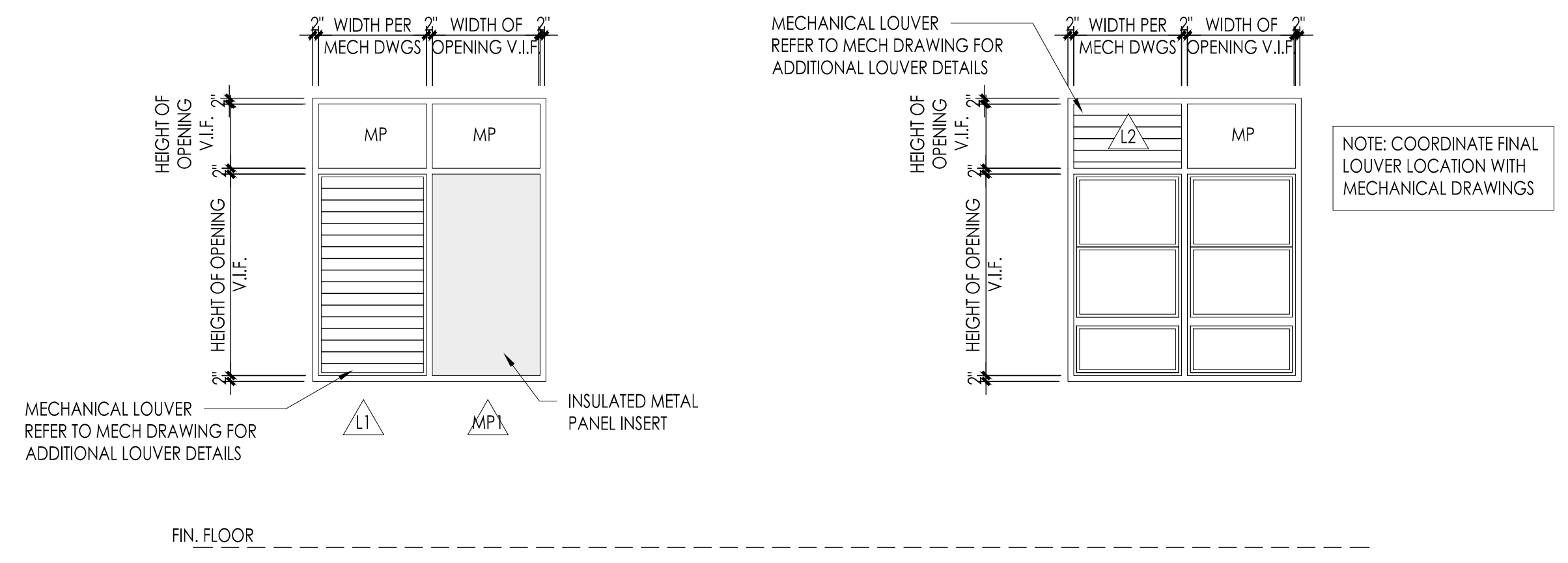
SIGN TYPE 25
FONT: HELVETICA 1"
CORNERS: 3/8" RADIUS

NOTES:
1. INSTALL ADJACENT TO DOOR
2. CAPACITY NUMBERS SHALL BE AS SHOWN ON EGRESS PLAN
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

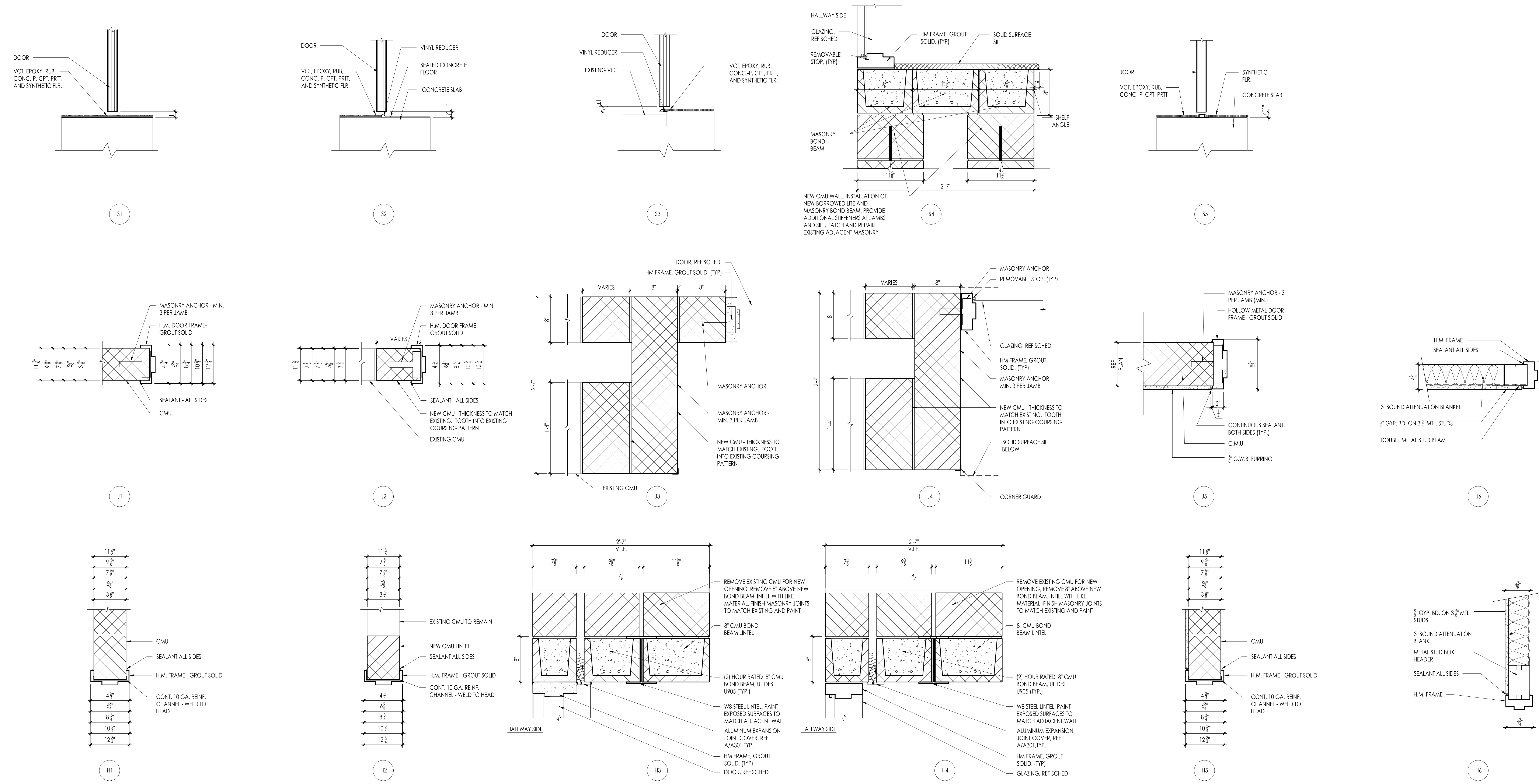
SIGN TYPE 29
FONT: HELVETICA 5/8"
BRAILLE: 1/4"
CORNERS: 3/8" RADIUS

NOTES:
1. ALL LETTERS, NUMBERS, SYMBOLS, AND PICTOGRAPHS SHALL BE RAISED MINIMUM 1/32" FROM SIGN FACE AND SHALL MEET ALL REQUIREMENTS FOR COLOR CONTRAST RATIO.
2. AT SIGN TYPES 7-18 AND 29-30, CONTRACTOR IS ADVISED HEREBY THAT FINAL SIGN VERBIAGE AND LAYOUT, INCLUDING THE ADDITION OR DELETION OF PICTOGRAMS, WILL BE FINALIZED BY THE ARCHITECT AND OWNER DURING THE SHOP DRAWING PROCESS.

4 SIGNAGE TYPES
1-1/2" = 1'-0"


2"
WIDTH PER MECH DWGS
WIDTH OF OPENING V.I.F.
HEIGHT OF OPENING V.I.F.
MP
MECHANICAL LOUVER REFER TO MECH DRAWING FOR ADDITIONAL LOUVER DETAILS
L1
MP1
L2
INSULATED METAL PANEL INSERT
NOTE: COORDINATE FINAL LOUVER LOCATION WITH MECHANICAL DRAWINGS
FIN. FLOOR

5 WINDOW INFILL TYPES
1/4" = 1'-0"


DOOR
VCT, EPOXY, RUB, CONC.-P, CPT, PRTT, AND SYNTHETIC FLR.
1"
S1
VINYL REDUCER
SEALED CONCRETE FLOOR
CONCRETE SLAB
S2
EXISTING VCT
±1"
S3
HALLWAY SIDE
GLAZING, REF SCHED
REMOVABLE STOP, (TYP)
HM FRAME, GROUT SOLID, (TYP)
SOLID SURFACE SILL
SHELF ANGLE
MASONRY BOND BEAM
NEW CMU WALL. INSTALLATION OF NEW BORROWED LITE AND MASONRY BOND BEAM. PROVIDE ADDITIONAL STIFFENERS AT JAMBS AND SILL, PATCH AND REPAIR EXISTING ADJACENT MASONRY
2'-7"
S4
VCT, EPOXY, RUB, CONC.-P, CPT, PRTT
SYNTHETIC FLR.
S5
MASONRY ANCHOR - MIN. 3 PER JAMB
H.M. DOOR FRAME- GROUT SOLID
SEALANT - ALL SIDES
CMU
J1
VARIES
NEW CMU - THICKNESS TO MATCH EXISTING. TOOTH INTO EXISTING COURSING PATTERN
EXISTING CMU
J2
DOOR, REF SCHED.
HM FRAME, GROUT SOLID, (TYP)
8"
MASONRY ANCHOR
MASONRY ANCHOR - MIN. 3 PER JAMB
1'-4"
J3
GLAZING, REF SCHED
HM FRAME, GROUT SOLID, (TYP)
SOLID SURFACE SILL BELOW
CORNER GUARD
J4
MASONRY ANCHOR - 3 PER JAMB (MIN.)
HOLLOW METAL DOOR FRAME - GROUT SOLID
REF PLAN
CONTINUOUS SEALANT, BOTH SIDES (TYP.)
C.M.U.
G.W.B. FURRING
J5
H.M. FRAME
SEALANT ALL SIDES
3" SOUND ATTENUATION BLANKET
GYP. BD. ON 3 5/8" MTL. STUDS
DOUBLE METAL STUD BEAM
J6
SEALANT ALL SIDES
H.M. FRAME - GROUT SOLID
CONT. 10 GA. REINF. CHANNEL - WELD TO HEAD
H1
EXISTING CMU TO REMAIN
NEW CMU LINTEL
H2
2'-7" V.I.F.
REMOVE EXISTING CMU FOR NEW OPENING, REMOVE 8" ABOVE NEW BOND BEAM. INFILL WITH LIKE MATERIAL, FINISH MASONRY JOINTS TO MATCH EXISTING AND PAINT
8" CMU BOND BEAM LINTEL
(2) HOUR RATED 8" CMU BOND BEAM, UL DES U905 (TYP.)
W8 STEEL LINTEL, PAINT EXPOSED SURFACES TO MATCH ADJACENT WALL
ALUMINUM EXPANSION JOINT COVER, REF A/A301,TYP.
DOOR, REF SCHED
H3
H4
H5
GYP. BD. ON 3 5/8" MTL. STUDS
3" SOUND ATTENUATION BLANKET
METAL STUD BOX HEADER
H6

6 DOOR HEAD, JAMB, AND SADDLE DETAILS
1-1/2" = 1'-0"

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street, Princeton, NJ 08540

Project Number
5516A2
Project Date
02.06.2026
Checked By
WDH
Drawn By
JEK
Scale
AS NOTED

Drawing Name
DOOR TYPES & SCHEDULES

Revisions

No.	Date	Description

Drawing Number
A601

INTERIOR FINISH LEGEND

ACOUSTICAL CEILING SYSTEMS

ACB-1	DESCRIPTION: 2x4 ACOUSTICAL CEILING BOARD MANUF: ARMSTRONG OR APPROVED EQUAL SERIES: REFER TO SPECIFICATIONS COLOR: WHITE SIZE: 24" x 48" x 7/8" EDGE PROFILE: LAY-IN NOTE: REFER TO SPECIFICATIONS
AACB-1	DESCRIPTION: 2x4 ACOUSTICAL CEILING BOARD MANUF: ARMSTRONG OR APPROVED EQUAL SERIES: REFER TO SPECIFICATIONS COLOR: WHITE SIZE: 24" x 48" x 5/8" EDGE PROFILE: LAY-IN NOTE: REFER TO SPECIFICATIONS

CORNER GUARDS

CG-1	DESCRIPTION: 2" SURFACE MOUNT CORNER GUARD MANUF: INPRO OR APPROVED EQUAL STYLE: 160 HIGH IMPACT CORNER GUARD COLOR: TBD (MANUF. FULL RANGE) DIMENSIONS: 2" WING x 48" H INSTALL: INSTALL WITH PRE-SLOTTED ALUMINUM RETAINER
CG-2	DESCRIPTION: SURFACE MOUNT END WALL PROTECTOR W/ END CAPS MANUF: INPRO OR APPROVED EQUAL STYLE: 160 HIGH IMPACT END WALL PROTECTOR COLOR: TBD (MANUF. FULL RANGE) DIMENSIONS: 2" WING x 4'H. INSTALL: INSTALL WITH PRE-SLOTTED ALUMINUM RETAINER

DECORATIVE CEILING SYSTEMS

DCS-1	DESCRIPTION: ACOUSTICAL CANOPIES MANUF: ARMSTRONG OR APPROVED EQUAL SERIES: ACOUSTICAL CLOUDS COLOR: WHITE SIZE: PER PLANS NOTE: REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND SPECIFICATIONS

EPOXY SYSTEM - ALT-BID

EPXY-1	DESCRIPTION: EPOXY FLOOR SYSTEM MANUF: FLOWRESIN OR APPROVED EQUAL SERIES: KRISTALINA COLOR: PEARL SIZE: PER PLANS NOTE: REFER TO FINISH PLANS FOR LOCATIONS AND SPECIFICATIONS

FIBER REINFORCED PLASTIC

FRP-1	DESCRIPTION: TOILET ROOMS MANUF: ALTRO OR APPROVED EQUAL COLLECTION: WHITEROCK COLOR: TBD DIMENSIONS: 4x10 PANELS INSTALL: PROVIDE ACCESSORIES AS SPECIFIED

LUXURY VINYL TILE CONT

LVT-1	DESCRIPTION: FIELD MANUF: PATCRAFT OR APPROVED EQUAL COLLECTION: CMYK SERIES/COLOR: TBD SIZE: 12" x 24" INSTALL METHOD: STAGGERED/BRICK SEE FINISH PLANS
LVT-2	DESCRIPTION: CORRIDOR MANUF: PATCRAFT OR APPROVED EQUAL COLLECTION: CMYK SERIES/COLOR: TBD SIZE: 12" x 24" INSTALL METHOD: STAGGERED/BRICK SEE FINISH PLANS
LVT-3	DESCRIPTION: CLASSROOM & CORRIDOR ACCENT MANUF: PATCRAFT OR APPROVED EQUAL COLLECTION: CMYK SERIES/COLOR: TBD SIZE: 12" x 24" INSTALL METHOD: STAGGERED/BRICK SEE FINISH PLAN

PAINT

P-1	DESCRIPTION: CLASSROOM WALL PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EGGSHELL
P-2	DESCRIPTION: CLASSROOM ACCENT PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EGGSHELL
P-3	DESCRIPTION: GALLERY WALL PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EGGSHELL
P-4	DESCRIPTION: HALLWAY WALL PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EGGSHELL
P-5	DESCRIPTION: DOOR FRAME PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: SEMI-GLOSS

PAINT CONT

P-6	DESCRIPTION: GENERAL CEILING PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: WHITE FINISH: FLAT
P-7	DESCRIPTION: GALLERY EXPOSED CEILING MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: FLAT
P-8	DESCRIPTION: STORAGE ROOM WALL PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EGGSHELL
P-9	DESCRIPTION: TOILET ROOM WALL PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EPOXY PAINT
P-10	DESCRIPTION: EXPOSED CEILING MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: FLAT
P-11	DESCRIPTION: CONFERENCE/OFFICE WALL PAINT MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: TBD FINISH: EGGSHELL

RESILIENT SHEET FLOORING

RSF-1	DESCRIPTION: SHEET VINYL FLOORING MANUF: ALTRO OR APPROVED EQUAL SERIES: ILLUSTRA COLOR: TBD ACCESSORIES: ALTRO FLASHCOVE SYSTEM FOR INTEGRAL BASE, C4 CAP STRIP H-SHAPE AND ALTRO WELD STRIP, COLOR TO MATCH

RUBBER WALL BASE

RB-1	DESCRIPTION: TYPICAL WALL BASE MANUF: ROPPE OR APPROVED EQUAL SERIES: PINNACLE RUBBER BASE COLOR: TBD DIMENSIONS: 4" H
RB-2	DESCRIPTION: ACCENT WALL BASE MANUF: ROPPE OR APPROVED EQUAL SERIES: PINNACLE RUBBER BASE COLOR: TBD DIMENSIONS: 4" H

SEALED POLISHED CONCRETE FLOOR

SCF-1	DESCRIPTION: CONCRETE SEALER MANUF: SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: CLEAR FINISH: MATTE TEXTURE:

SOLID SURFACE MATERIAL

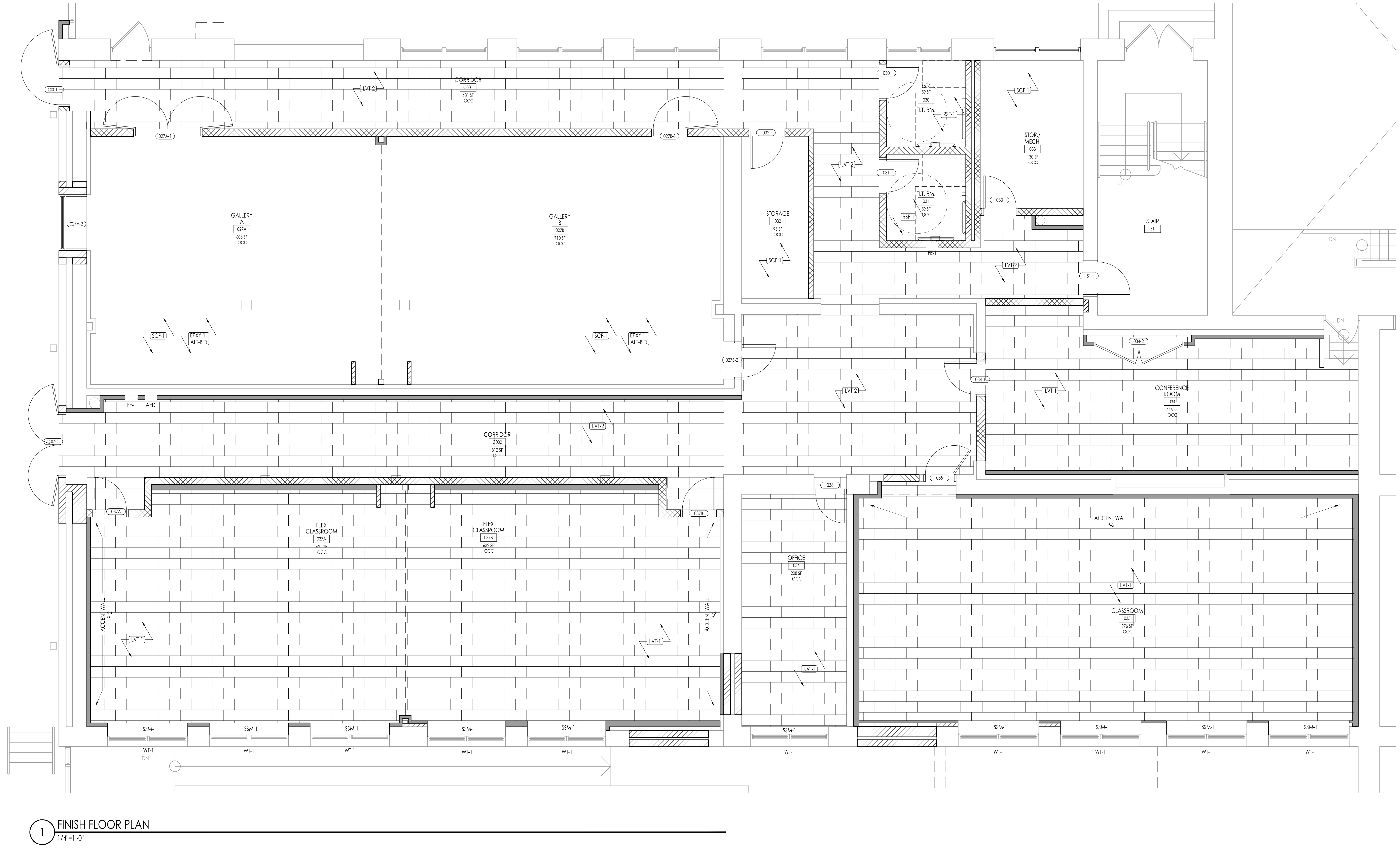
SSM-1	DESCRIPTION: WINDOW SILLS MANUF: CORIAN OR APPROVED EQUAL COLOR: TBD
SSM-2	DESCRIPTION: CLASSROOM COUNTERS MANUF: CORIAN OR APPROVED EQUAL COLOR: TBD
SSM-3	DESCRIPTION: CONFERENCE ROOM COUNTERS MANUF: CORIAN OR APPROVED EQUAL COLOR: TBD

TACK SURFACES

TS-1	DESCRIPTION: TACK BOARDS MANUF: CLARIDGE OR APPROVED EQUAL FABRIC: FABRICORK COLOR: TBD

ROLLER WINDOW SHADE

WT-1	DESCRIPTION: MANUAL OPERATING, CHAIN DRIVEN, DOUBLE ROLLER SHADE MANUF: MECHO OR APPROVED EQUAL SERIES: MECHO 5/5X FABRIC: TBD ACCESSORIES: PROVIDE FASCIA TRIM - REFER SPECS



① FINISH FLOOR PLAN

1/4"=1'-0"

GENERAL FINISH NOTES

1. NOTES PERTAIN TO AREAS WITHIN THIS SCOPE OF WORK ONLY.
2. CONTACT ARCHITECT FOR CLARIFICATION IN THE EVENT OF CONTRADICTORY INFORMATION BETWEEN DRAWINGS, LEGEND AND/ OR SPECIFICATIONS OR IF COLOR AND/OR FINISH IS NOT SPECIFIED.
3. REFER TO FINISH LEGEND AND PLAN FOR GENERAL FINISHES.
4. REFER TO ALL DRAWINGS (INCLUDING PLANS, ELEVATIONS AND DETAILS) FOR COMPLETE INTERIOR FINISH INFORMATION.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING PRODUCT LEAD TIMES TO ENSURE DELIVERY THAT MEETS THE PROJECT SCHEDULE.
6. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL SITE CONDITIONS AND CONFIRM QUANTITIES PRIOR TO ORDERING PRODUCTS. IN THE EVENT OF CONTRADICTORY INFORMATION CONTACT THE INTERIOR DESIGNER/ARCHITECT FOR CLARIFICATION PRIOR TO ORDERING.
7. ALL MATERIALS SHALL BE INSTALLED USING MANUFACTURERS RECOMMENDED INSTALLATION METHODS, ACCESSORIES AND ADHESIVES.
8. WARRANTY INFORMATION AND INSTRUCTIONS OF MAINTENANCE ON ALL FINISH MATERIALS SHALL BE PROVIDED TO THE OWNER AND INCLUDED IN THE CLOSEOUT WARRANTY AND MAINTENANCE MANUAL.
9. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SAMPLES OF ALL FINISHES SPECIFIED TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING MATERIAL.
10. ALL SUBSTRATE SURFACES ARE TO BE PROPERLY PREPARED TO RECEIVE FINISH MATERIALS. SUBCONTRACTOR IS NOT TO APPLY FINISHES UNTIL SUBSTRATE IS PREPARED PER MANUFACTURES WRITTEN INSTRUCTIONS FOR ALL INSTALLATIONS OR APPLICATIONS.
11. PAINT GRILLS, WALL DIFFUSERS, ELECTRICAL PANELS, WALL MOUNTED BOXES, ACCESS PANELS, ETC., WHICH ARE EXPOSED IN FINISHED SPACES TO MATCH THE SURFACE ON WHICH THEY OCCUR IF THE ITEM IS ON A WALL-COVERED WALL. PROVIDE A CUSTOM PAINT COLOR USED TO MATCH. SUBMIT TO ARCHITECT FOR APPROVAL.
    ALL DIRECTIONAL LAMINATES SHOULD RUN WITH THE VERTICAL GRAIN PATTERN, UNLESS OTHERWISE NOTED.
12. ALL WALL PAINT TO BE EGGSHELL FINISH, UNLESS OTHERWISE NOTED.
13. ALL METAL AND PAINTED TRIM TO BE SEMI-GLOSS ENAMEL FINISH,UNLESS OTHERWISE NOTED.
14. ALL VINYL/RUBBER BASE TO BE ROLLED GOODS, NOT LINEAR 4' LENGTHS, UNLESS OTHERWISE NOTED.

ABBREVIATIONS

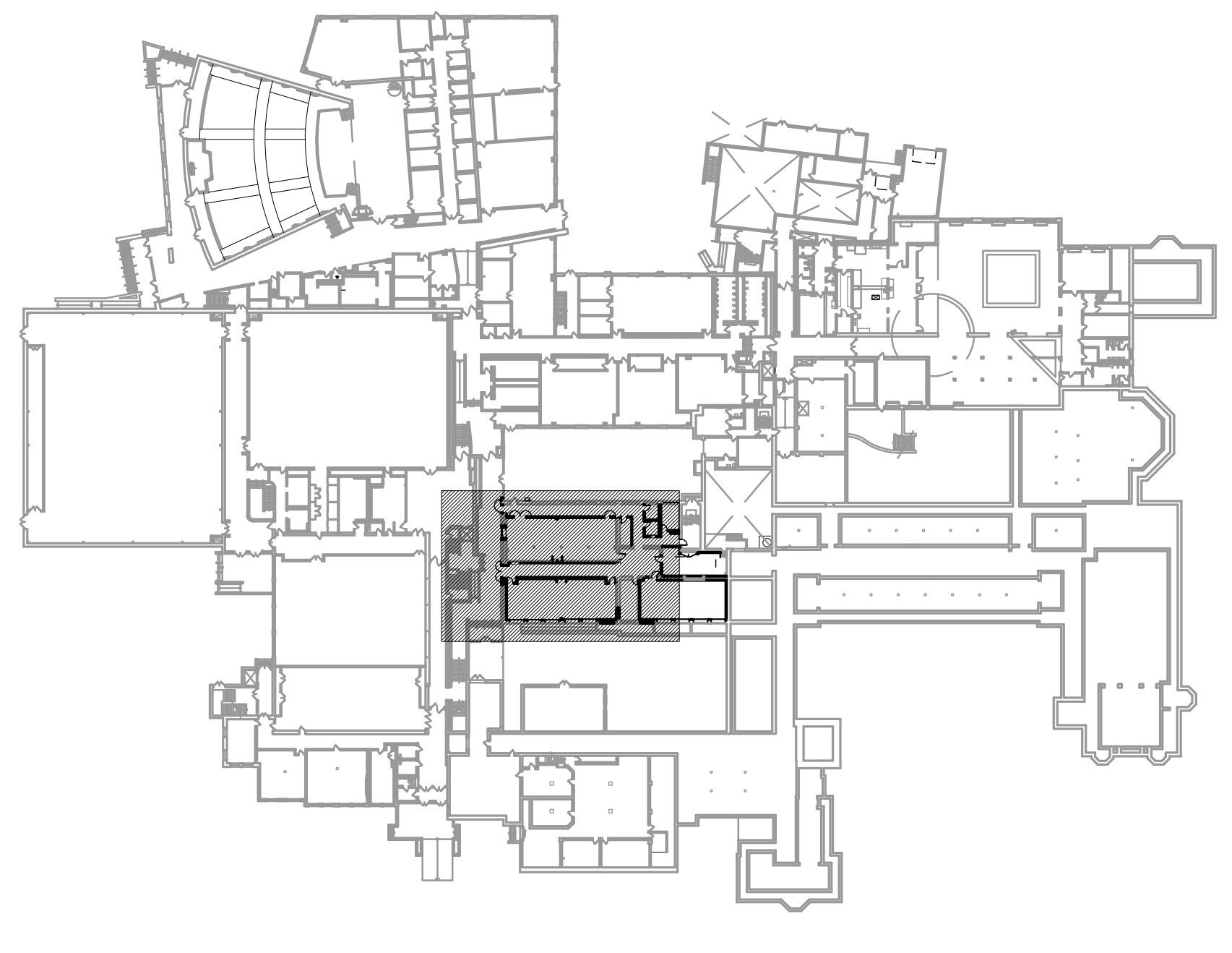
ACB	- ACOUSTIC CEILING BOARD
AL	- ALUMINUM
CG	- CORNER GUARD
CPT	- CARPET/CARPET TILE
DCS	- DECORATIVE CEILING SYSTEM
EXP	- EXPOSED
EXP-P	- EXPOSED PAINTED, REFER TO REFLECTED CEILING PLANS FOR PAINT COLOR
FRP	- FIBERGLASS REINFORCED PLASTIC
GCB	- GYPSUM CEILING BOARD
HVT	- HOMOGENOUS VINYL TILE
LVT	- LUXURY VINYL TILE
PLAM	- PLASTIC LAMINATE
RB	- RUBBER BASE
RSF	- RESILIENT SHEET FLOORING
RST	- RUBBER STAIR TREADS
RTF	- RESILIENT TILE FLOORING
RWS	- ROLLER WINDOW SHADE
SCF	- SEALED CONCRETE FLOOR
SP	- SOUND PANEL
SSM	- SOLID SURFACE MATERIAL
SST	- STAINLESS STEEL
TI	- TILE
TS	- TACKABLE SURFACE
WD	- WOOD

ROOM FINISH SCHEDULE

NUMBER	ROOM NAME	FLOOR	BASE		WAINSCOT		WALL FINISH	CEILING		NOTES
			MAT.	HT.	MAT.	HT.		MAT.	HT.	
027A	GALLERYA	SCF	RB-1	4"	--	--	P-3	DCS/GCB - P-7	--	3
027B	GALLERYB	SCF	RB-1	4"	--	--	P-3	DCS/GCB - P-7	--	3
030	TLT. RM.	RSF-1	RSF-1	4"	FRP-1	60"	P-9	AACB	8'-0"	4, 5
031	TLT. RM.	RSF-1	RSF-1	4"	FRP-1	60"	P-9	AACB	8'-0"	4, 5
032	STORAGE	SCF	RB-1	4"	--	--	P-8	EXP - P-10	--	3
033	STOR./MECH.	SCF	RB-1	4"	--	--	P-8	EXP - P-10	--	3
034	CONFERENCEROOM	LVT-1	RB-2	4"	--	--	P-11	ACB/GCB	--	--
035	CLASSROOM	LVT-1	RB-1	4"	--	--	P-1/P-2	ACB/GCB	--	1, 2
036	OFFICE	LVT-1	RB-2	4"	--	--	P-11	ACB	--	--
037A	FLEXCLASSROOM	LVT-1	RB-1	4"	--	--	P-1/P-2	ACB/GCB	--	1, 2
037B	FLEXCLASSROOM	LVT-1	RB-1	4"	--	--	P-1/P-2	ACB/GCB	--	1, 2
C001	CORRIDOR	LVT-2	RB-1	4"	--	--	P-4	ACB	--	1
C002	CORRIDOR	LVT-2	RB-1	4"	--	--	P-4	ACB	--	1

ROOM FINISH SCHEDULE NOTES

1. SEE FINISH PLANS FOR FLOOR PATTERNS AND COLORS
2. SEE FINISH PLAN FOR PAINT COLORS AND LOCATIONS
3. REFER TO REFLECTED CEILING PLAN FOR CEILING PAINT COLOR
4. REFER TO TOILET ROOM ELEVATIONS FOR WAINSCOTING LOCATIONS
5. PROVIDE INTEGRAL BASE PER MANUFACTURER



KEY PLAN

N.T.S.

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2
Project Date
02.06.2026
Checked By
WDH
Drawn By
JEK
Scale
AS NOTED

Drawing Name
FINISH PLANS
& SCHEDULE

Revisions

No.	Date	Description

Drawing Number
A701

PLUMBING LEGEND

SYMBOLS	DESCRIPTION
━━━━	SOIL OR WASTE PIPING
– – – –	VENT PIPING
━ ━━ ━	PIPING BURIED OR UNDER FLOOR (SERVICE NOTED)
────	DOMESTIC COLD WATER PIPING
────	DOMESTIC HOT WATER PIPING
— - - - —	DOMESTIC HOT WATER CIRCULATION PIPING
—G—	NATURAL GAS PIPING
—■—	WATER HAMMER ARRESTER
⊣	HOSE BIBB
⊐⋈	WALL HYDRANT
‖——	CLEAN-OUT/PLUG OUTLET
○——	CLEAN-OUT DECK PLATE OR GRADE PLATE
○C——	"P" TRAP
—Y—	BOTTOM PIPE CONNECTION
—⌒—	TOP PIPE CONNECTION
C——	ELBOW TURNED DOWN
○——	ELBOW TURNED UP/CONNECTION TO VERTICAL LINE
—⊃—	VALVE IN VERTICAL
—◎— —⋈—	GATE OR BALL VALVE
—◎— —●—	BALL VALVE
—◎— —N—	CHECK VALVE
—◎— —⋈—	OS&Y (OUTSIDE SCREW & YOKE) VALVE
—▼—	GAS COCK
↑	RELIEF VALVE
—‖—	UNION
⊡	FLOOR DRAIN
—▷—	PUMP
—M—	METER
—◆—⋈—	CIRCUIT SETTER ASSEMBLY
⋈ BPA ⋈	BACKFLOW PREVENTER ASSEMBLY
⧗	REGULATOR

PLUMBING ABBREVIATIONS

AW	ACID WASTE	IE	INVERT ELEVATION
CO	CLEANOUT	LAV	LAVATORY
CODP	CLEANOUT DECK PLATE	OSY	OUTSIDE SCREW & YOKE GATE VALVE
COG	CLEANOUT GRADE		
COWP	CLEANOUT WALL PLATE	PSI	POUNDS PER SQUARE INCH (GAUGE)
CW	COLD WATER		
DN	DOWN (PENETRATES FLOOR SLAB)	SAN	SANITARY
DFU	DRAINAGE FIXTURE UNIT	ST	STORM
EJDIS	EJECTOR DISCHARGE	SQ FT	SQUARE FOOT
EWC	ELECTRIC WATER COOLER	TP	TRAP PRIMER
FPWH	FROST PROOF WALL HYDRANT	TW	TEMPERED WATER
FD	FLOOR DRAIN	UG	UNDERGROUND
FU	FIXTURE UNIT	UP	UP (PENETRATES FLOOR SLAB)
FT	FEET	UR	URINAL
G	GAS	V	VENT
GPM	GALLONS PER MINUTE	VIF	VERIFY IN FIELD
GAL	GALLONS	VTR	VENT THROUGH ROOF
HB	HOSE BIBB	WC	WATER CLOSET
HW	HOT WATER	WFU	WATER FIXTURE UNITS
HWR	HOT WATER RETURN	WHA	WATER HAMMER ARRESTOR
IW	INDIRECT WASTE		

APPLICABLE CODES & STANDARDS:

ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST CODES AND SUBCODES AS ADOPTED BY THE STATE OF NEW JERSEY:

- NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC)
- REHABILITATION SUBCODE 5:23-6
- ADMINISTRATIVE CODE: TITLE 6
- 2021 INTERNATIONAL BUILDING CODE - NJ EDITION
- 2023 NATIONAL ELECTRICAL CODE
- 2021 NATIONAL STANDARD PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2019 ASHRAE 90.1 ENERGY STANDARD
- 2022 NFPA STANDARD 13
- REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION
- ICC A117.1 - 2017 STANDARD FOR BARRIER FREE SUB CODE

PLUMBING GENERAL NOTES

1. DO NOT SCALE FROM THESE DRAWINGS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE AND ADOPTED REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
3. THE DRAWINGS HAVE BEEN PRODUCED ENTIRELY ON FPA CADD SYSTEM. ANY OTHER LETTERING, LINES OR SYMBOLS, OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE AUTHORIZATION OF FPA AND ARE INVALID.
4. REPRODUCTION OF ANY PORTION OF THE CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
5. UPON CONTRACT AWARD, CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANY TO SCHEDULE ANY UTILITY UPGRADES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL UTILITY UPGRADES, SECURE ALL PERMITS AND INSPECTIONS.
6. ALL CONNECTIONS TO EXISTING BUILDING SERVICES SHALL BE CAREFULLY COORDINATED WITH THE UTILITY CO. AND THE OWNER'S SCHEDULE. SERVICE WORK OF THIS NATURE TO OCCUR DURING UNOCCUPIED BUILDING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EXISTING EQUIPMENT IS OPERATIONAL AFTER ANY SHUTDOWN OCCURS.
7. CHANGES OR SUBSTITUTIONS OF EQUIPMENT WILL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER. ALL COSTS RESULTING FROM THE SELECTION OF OTHER THAN SPECIFIED EQUIPMENT SHALL BE BORNE BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO WORK AFFECTING OTHER CONTRACTORS, THE OWNER, OR RE-DESIGN ISSUES.
8. ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
9. DO NOT USE ANY PART OF THE OWNER'S BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES BY THE OWNER.
10. ALL CONTRACT WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE WRITTEN SPECIFICATIONS FOR THIS PROJECT WHICH ARE CONSIDERED TO BE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL MAINTAIN (AT THE JOB SITE) AND REFER TO COPIES OF THE WRITTEN SPECIFICATIONS AS PART OF THESE DRAWINGS. REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE. IN ALL CASES OF DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN AND WHERE IT IS UNCLEAR, SUCH CASES SHALL BE REFERRED TO THE ENGINEER FOR ADJUDICATION.
11. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED HVAC, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DECOR AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BID SUBMISSION.
12. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID FOR THE PROPOSED WORK. HE SHALL BE RESPONSIBLE TO VERIFY FIELD CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMISSION OF BIDS IN WRITING.
13. THE PLUMBING CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, ELECTRICAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, THE PLUMBING CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
14. CONTRACTOR SHALL COORDINATE HIS SCHEDULING WITH THE OWNER AND GENERAL CONTRACTOR TO COMPLY WITH THE OWNERS USAGE OF THE BUILDING.
15. IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL REPORT THE DISCOVERY IMMEDIATELY TO THE OWNER. THE CONTRACTOR SHALL STOP ANY WORK THAT MAY DISTURB THE SUSPECTED HAZARDOUS MATERIAL. CONTRACTOR SHALL RESUME WORK AFTER ALL HAZARDOUS MATERIAL HAS BEEN REMEDIATED.
16. CONTRACTOR RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR OR REIMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE AND EQUIVALENCY. CONTRACTOR SHALL ADVISE OWNER FOR DISPOSITION OR REMOVED EQUIPMENT AND/OR MATERIALS.
17. CONTRACTOR'S WORK MAY BE REQUIRED OUTSIDE OF DESIGNATED SPACE. ALL SYSTEMS BEING DEMOLISHED AND REMOVED, MODIFIED, AND/OR TERMINATED SHALL BE FIELD VERIFIED TO INSURE NO WORK PERFORMED, INSIDE OR OUTSIDE OF THE DESIGNATED SPACE, SHALL DISRUPT ANY SERVICE OR SYSTEMS OF ANY OTHER AREAS. IF ANY CONDITIONS ARISE THAT ARE NOT IDENTIFIED ON DRAWINGS, IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE ENGINEER OR OWNER. NO WORK SHALL PROCEED WITHOUT APPROVALS FROM ENGINEER OR OWNER.
18. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY HAVE TO BE ADAPTED TO COMPLY WITH EXISTING BUILDING CONDITIONS. CONTRACTOR SHALL SUBMIT PLUMBING SHOP DRAWINGS, INDICATING LOCATIONS, AND ROUTING OF DUCTS, PIPING, AND WIRING.
19. PIPING SHOWN ON DRAWINGS SHOW THE GENERAL RUN AND CONNECTIONS AND MAY OR MAY NOT IN ALL PARTS BE SHOWN IN ITS EXACT POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING THE PIPING SUITABLE IN EVERY RESPECT FOR THE WORK. PIPING SHALL BE INSTALLED SO THAT ACCESS, CLEARANCE, HEADROOM AND PITCH ARE MAINTAINED. CONTRACTORS OF THE VARIOUS TRADES SHALL COORDINATE THE INSTALLATION.
20. ALL CONTRACTORS SHALL PROVIDE CUTTING AND PATCHING FOR THEIR RESPECTIVE TRADES.
21. REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF THE PLUMBING WORK AND REPLACE ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL, MATCH EXISTING ADJACENT SURFACES.
22. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CONNECTION OF DOMESTIC WATER, GAS, SANITARY AND VENT PIPING INCLUDING VALVES, TRIMS AND EQUIPMENT, TO PLUMBING FIXTURES AT LOCATIONS INDICATED ON THE PLANS.
23. RUN ALL DOMESTIC WATER AND SANITARY WASTE AT LOWEST LEVEL, AND SANITARY VENT AS HIGH AS POSSIBLE THROUGHOUT ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN STEEL (JOIST) SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE AND VERIFY WITH OTHER CONTRACTORS SO AS NOT TO INTERFERE WITH DUCTWORK, LIGHTING SYSTEMS, ETC.
24. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ELECTRICAL FEEDS. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR CHASE LOCATIONS TO COORDINATE ALL VERTICAL PIPING ROUTING. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
25. ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES, INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION. EACH DOMESTIC WATER BRANCH LINE SHALL HAVE ITS OWN SHUT-OFF VALVE.
26. CONNECT GAS PIPING TO APPLIANCES USING MANUAL SHUTOFF VALVES AND UNIONS. INSTALL VALVE WITHIN 72 INCHES OF EACH GAS FIRED APPLIANCE AND EQUIPMENT. INSTALL UNION BETWEEN VALVE AND APPLIANCE OR EQUIPMENT.
27. DOMESTIC HOT WATER HEATER TEMPERATURE/PRESSURE RELIEF VALVES SHALL BE PIPED FULL SIZE TO THE NEAREST APPROVED STANDPIPE OR FLOOR DRAIN. THIS REQUIREMENT SHALL BE APPLICABLE TO ALL DOMESTIC WATER HEATERS EXCEPT INSTANTANEOUS WATER HEATERS.
28. THE PLUMBING CONTRACTOR SHALL RUN OUT ALL BUILDING DRAINAGE AND WASTE LINES TO WITHIN 5'-0" OF THE BUILDING FOUNDATION AND MAKE FINAL CONNECTIONS TO SITE SYSTEMS AS INDICATED ON PLANS. COORDINATE WITH SITE ENGINEER.
29. FURNISH AND INSTALL PIPE SLEEVES OR SLEEVE SEAL SYSTEMS AS REQUIRED. SEE SPECIFICATION FOR DETAILS.
30. ALL PIPING SYSTEM PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE SEALED WITH UL APPROVED FIRE RESISTANT JOINT SEALER TO MAINTAIN FIRE,SMOKE AND DRAFT INTEGRITY OF STRUCTURE. SPECIFIED TECHNOLOGIES "PENSIL 200" OR EQUAL, TWO-PART FOAMED-IN-PLACE SILICONE SEALANT. FIRE RESISTANT SEALER SHALL BE TESTED IN ACCORDANCE WITH ASTM 814. INSTALL SEALANT, INCLUDING FOAMING, PACKING AND OTHER ACCESSORY MATERIALS TO FILL OPENINGS WHERE FIRE-RATED WALL PENETRATIONS OCCUR. COMPLY WITH INSTALLATION REQUIREMENTS ESTABLISHED BY TESTERS AND INSPECTION AGENCY.
31. ALL PENETRATIONS IN FOUNDATION WALLS AND FLOORS INCLUDING SLAB PENETRATIONS SHALL BE SUBSTANTIALLY SEALED BY UTILIZING A NON-CRACKING POLYURETHANE OR SIMILAR CAULK, OR EQUIVALENT IN ORDER TO CLOSE OFF THE SOIL GAS (RADON) ENTRY ROUTES AS REQUIRED BY CODE.
32. INSULATE ALL NEW HOT WATER AND COLD WATER PIPING SYSTEMS. INSULATION SHALL BE INSTALLED AS A COMPLETE SYSTEM INCLUDING VALVES, FITTINGS, ETC. INSULATION THICKNESS SHALL COMPLY WITH THE REQUIREMENTS OF 2019 ASHRAE 90.1 TABLE 6.8.1-3. SEE SPECIFICATIONS SECTION 15085 FOR ADDITIONAL INFORMATION.
33. INSULATE ROOF DRAIN & OVERFLOW DRAIN BODIES AND ALL INTERIOR STORM PIPING. INSULATION SHALL BE INSTALLED AS A COMPLETE SYSTEM INCLUDING FITTINGS, ETC. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
34. ALL CONTRACTORS REMOVING ANY EQUIPMENT, PIPES, DUCTS, CONDUITS, ETC SHALL PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
35. PROVIDE GAS PIPING SUPPORTS ON ROOF AT ALL DIRECTION CHANGES AND STRAIGHT RUNS WITH SPACING NOT EXCEEDING LENGTHS STATED IN TABLE 415.1 OF IFGC, 2021 FOR MATERIALS AND LISTED PIPE SIZES. SUPPORTS SHALL BE SADDLE BLOCK ROLLER TYPE WITH PIPE SECURED TO STAND WITH CLAMP OR METAL BAND. SUPPORT SHALL NOT BE SECURED TO ROOF SURFACE. BOTTOM OF PIPING SHALL BE MINIMUM 3 1/2" ABOVE ROOF SURFACE.
36. WHERE SLABS ARE CUT FOR UNDERSLAB PIPING OR BEING REPLACED, COORDINATE WITH ARCHITECTURAL DRAWINGS TO PITCH FLOOR TO FLOOR DRAIN.
37. ALL FLOOR DRAIN TRAPS SHALL BE PROVIDED WITH DEEP SEAL TRAPS.
38. THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPES, PIPE CONNECTIONS AND ACCESS DOORS. THESE PLANS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.

PLUMBING FIXTURE ROUGHING SCHEDULE

PLAN NO	FIXTURE	WASTE	TRAP	VENT	CW	HW	NOTES
P-1A	WATER CLOSET	4"	-	2"	1 1/2"	-	1,2
P-2A	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	1,3
P-3A	CLASSROOM SINK	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	1,4
P-4A	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	1
P-5A	PANTRY SINK	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	1,4

NOTES

1. INSTALL ACCESSIBLE FIXTURES IN ACCORDANCE WITH STATE AND LOCAL BARRIER FREE REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT TYPE, COUNT, AND MOUNTING HEIGHT OF ACCESIBLE FIXTURES.
2. LOCATE TRIP LEVER ON OPEN SIDE OF COMPARTMENT PER ADA REQUIREMENTS.
3. PROVIDE RIGID PIPE ENCLOSURE BELOW LAVATORIES BY TRUBRO OR EQUAL. SEE FIXTURE SCHEDULE.
4. INSULATE ALL EXPOSED PIPING BELOW HANDICAP SINKS WITH TRUBRO, LAV GUARD INSULATION KIT OR EQUAL.

PLUMBING FIXTURE SCHEDULE

P-1A	ACCESSIBLE WATER CLOSET: AMERICAN STANDARD #3461.001 "MADERA" 1.28 GPF VITREOUS CHINA ELONGATED FLOOR MOUNTED TOILET, SLOAN MODEL #G2 8111-1.28 BATTERY POWERED SENSOR FLUSH VALVE WITH COURTESY FLUSH OVERRIDE BUTTON AND CHURCH MODEL #9500SSC OPEN FRONT SEAT WITHOUT COVER. MOUNT FIXTURE TO MEET ADA REQUIREMENTS.
P-2A	ACCESSIBLE LAVATORY: AMERICAN STANDARD #0356.421 "LUCERNE" WALL-MOUNTED VITREOUS CHINA LAVATORY WITH AMERICAN STANDARD #7755.205 BATTERY POWERED SENSOR 0.5 GPM FAUCET WITH ZURN MODEL ZW1070XL THERMOSTATIC MIXING VALVE, SUPPLIES, STOP VALVES, P-TRAP, GRID DRAIN AND JR SMITH CARRIER FIGURE #0710. PROVIDE WITH TRUBRO 2018ASL1 RIGID ENCLOSURE BENEATH LAVATORY TO CONCEAL PIPING. MOUNT FIXTURE TO MEET ADA REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
P-3A	ACCESSIBLE CLASSROOM SINK: SINK, FAUCET, STRAINER & TAILPIECE SHALL BE PROVIDED BY THE EQUIPMENT CONTRACTOR. SEE ARCHITECTURAL DRAWINGS. PLUMBING CONTRACTOR SHALL PROVIDE ZURN MODEL ZW1070XL THERMOSTATIC MIXING VALVE, TRAP, SUPPLIES, STOPS, ETC AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AND MAKE ALL FINAL CONNECTIONS. COORDINATE ALL WORK WITH THE EQUIPMENT CONTRACTOR. INSULATE TRAP, SUPPLIES AND ANGLE STOPS WITH INSULATION KIT BY TRUBRO LAV GUARD.
P-4A	ACCESSIBLE WATER COOLER: ELKAY #EZOOTL8WSSK "EZH2O" BOTTLE FILLING STATION WITH BI-LEVEL ADA COOLER, NON-FILTERED, 8 GPH OF 50°F DRINKING WATER @ 90°F ROOM TEMP, 370W, 115/1Ø. PROVIDE SUPPLY, STOP VALVE AND P-TRAP. MOUNT FIXTURE TO MEET ADA REQUIREMENTS.
P-5A	ACCESSIBLE PANTRY SINK: SINK & FAUCETS SHALL BE FURNISHED BY EQUIPMENT CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR. SEE ARCHITECTURAL DRAWINGS. PLUMBING CONTRACTOR SHALL PROVIDE, ELKAY LK-18 GRID DRAIN, TRAP, TAILPIECE, SUPPLIES, STOPS, ETC AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AND MAKE ALL FINAL CONNECTIONS. COORDINATE ALL WORK WITH THE EQUIPMENT CONTRACTOR. INSULATE TRAP, SUPPLIES AND ANGLE STOPS WITH INSULATION KIT BY TRUBRO LAV GUARD.

PLUMBING EQUIPMENT SCHEDULE

EWH-1	ELECTRIC HOT WATER HEATER: AO SMITH #DEL-40 ELECTRIC STORAGE TANK WATER HEATER, 35 GALLON STORAGE CAPACITY, FLOOR MOUNTED. 24 GPH RECOVERY AT 100°F RISE, 208V/3PH, 6 KW INPUT. SUPPLY WITH HOLDRITE MODEL QP-28 DRAIN PAN. EXTEND DRAIN TO FLOOR DRAIN.
ET-1	EXPANSION TANK: AMTROL MODEL ST-5C-DD, 2 GALLON TANK, FIXED DIAPHRAGM CONSTRUCTION, ASME, 3/4" CONNECTION AND 1 YEAR WARRANTY.
HWR-1	HOT WATER RETURN PUMP: BELL AND GOSSETT MODEL NBF-36 (SPEED 1); LEAD-FREE ALL BRONZE CIRCULATING PUMP, 1.5 GPM @ 22 FT OF HEAD, 270 WATTS AT 115V, 3300 RPM. PROVIDE WITH TIMER AND AQUASTAT WIRED IN SERIES FOR PUMP CONTROL AND WITH 3/4" FLANGES.
MV-1	THERMOSTATIC MIXING VALVE: LEONARD "ECO-MIX" MODEL TM-26-LF-BDT HIGH-LOW, LEAD FREE WITH 3/4" INLETS, 3/4" OUTLET, INLET CHECK STOPS, WALL SUPPORT, OUTLET DIAL THERMOMETER AND BALL VALVE AND ROUGH BRONZE FINISH. ASSE 1017 CERTIFIED. MINIMUM FLOW 1 GPM. VALVE SHALL BE PIPED AND INSTALLED PER MANUFACTURERS REQUIREMENTS.
WHA	WATER HAMMER ARRESTER: SIOUX CHIEF HYDRA-RESTER OR APPROVED EQUAL. SIZE PER MANUFACTURER'S REQUIREMENTS. SUPPLY WITH JR SMITH 4762-CL 6" X 6" STAINLESS STEEL ACCESS PANEL WITH CYLINDER LOCK.
SE-1	SEWAGE EJECTOR: EXISTING SURFACE MOUNTED CAST IRON BASIN TO REMAIN. CONTRACTOR SHALL PROVIDE (2) NEW WEIL PUMP COMPANY MODEL 2437 "C" GRINDER PUMPS WITH 2" DISCHARGE WITH EACH PUMP RATED CAPACITY 50 GPM @ 22 FEET HEAD, 1 HP, 208 VOLTS, 3 PHASE AND 1750 RPM, NEW DISCHARGE PIPING AND VALVES, NEW WEIL MODEL 8212 MECHANICAL ALTERNATING LEVEL PEDESTAL FLOAT SWITCH FOR LOW HEAD ROOM APPLICATIONS, NEW WEIL MODEL 8155 DUPLEX PUMP CONTROL PANEL FURNISHED IN A NEMA 1 STEEL ENCLOSURE AND NEW WEIL MODEL 8805 36" DIAMETER COVER WITH 8817 PUMP ACCESS OPENING SUPPLIED WITH 2" VENT FLANGE AND 2" DISCHARGE PIPE OPENINGS AND ELECTRIC CORD GROMMET FOR PUMP COVER. CONTRACTOR SHALL VERIFY BASIN COVER DIAMETER PRIOR TO ORDERING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

DRAIN SCHEDULE

FD-1	FLOOR DRAIN: JR SMITH #2005 SQUARE TOP, FLASHING COLOR, CAST IRON BODY, ADJUSTABLE STRAINER, WITH #2692 QUAD CLOSE TRAP SEAL AND DEEP SEAL P-TRAP. SIZE PER PLAN.
CODP	CLEAN OUT DECK PLATE: JR SMITH FIGURE 4023, MEDIUM-DUTY CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP. TAPER THREAD, BRONZE PLUG. SIZE PER PLAN. IN AREAS WITH CARPET, TOP SHALL BE CARPET CLAMPING TYPE SUFFIX "X".
COWP	CLEAN OUT WALL PLATE: JR SMITH FIGURE 4422C, WALL CLEANOUT WITH ACCESS COVER, TAPER THREAD, BRONZE PLUG. SIZE PER PLAN.

FRENCH & PARRELLO ASSOCIATES

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street, Princeton, NJ 08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
AHG

Drawn By
JD

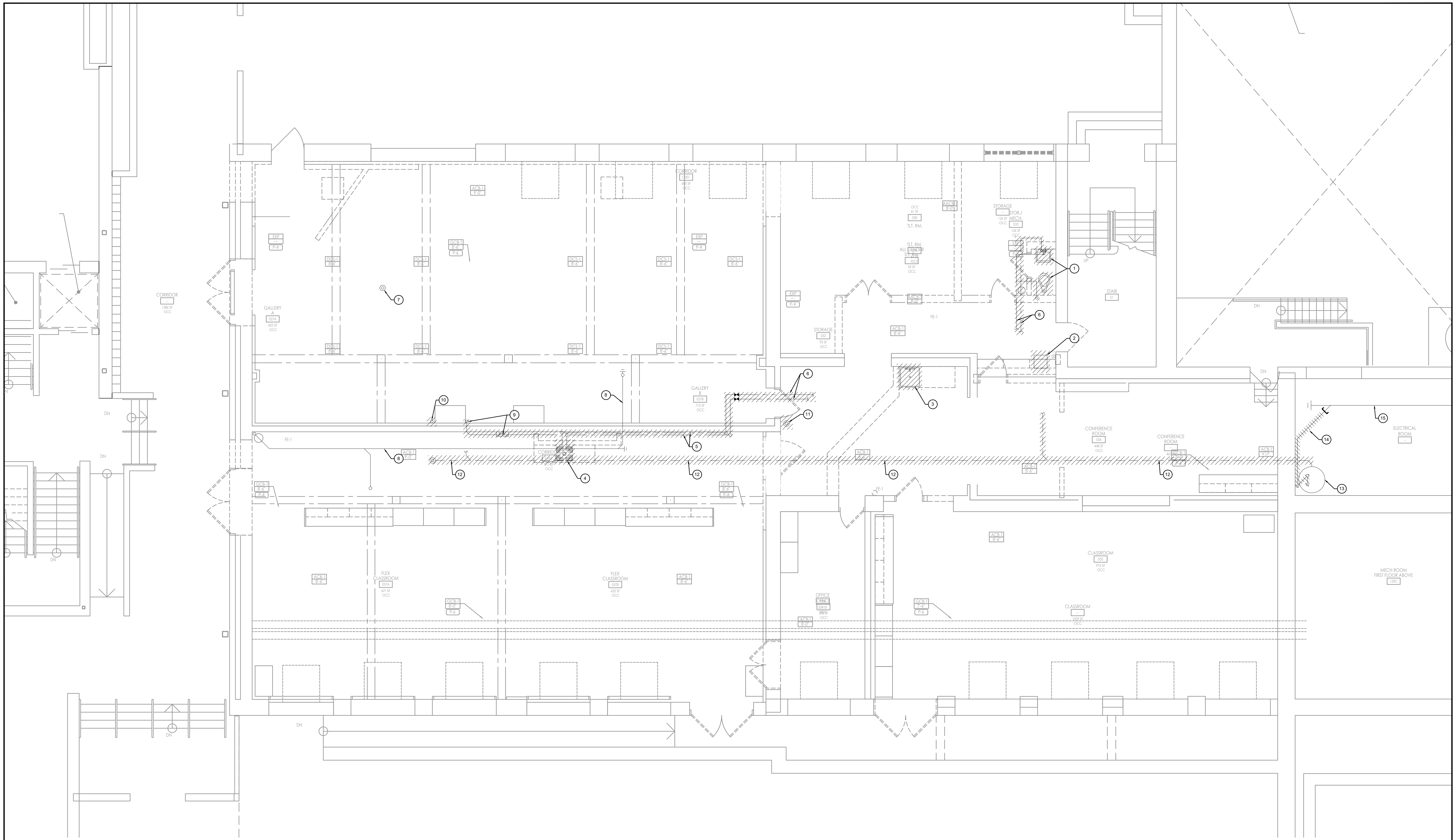
Scale
AS NOTED

Drawing Name
PLUMBING SYMBOLS, NOTES, & SCHEDULES

Revisions

No.	Date	Description

Drawing Number
P1.0



GROUND FLOOR DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

DEMOLITION KEY NOTES

① DISCONNECT AND REMOVE EXISTING LAVATORY, FAUCET, FLOOR MOUNTED WATER CLOSET, FLUSH VALVE AND ALL ASSOCIATED SUPPORTS. REMOVE SANITARY PIPING BACK DOWN TO BELOW FLOOR BACK TO MAIN AND CAP WATER TIGHT. REMOVE VENT PIPING IN ITS' ENTIRETY BACK TO CONNECTION TO MAIN ABOVE CEILING AND PREPARE FOR EXTENSION TO NEW VENT PIPING. SEE NEW WORK PLAN. REMOVE HOT AND COLD WATER PIPING IN ITS' ENTIRETY BACK TO CONNECTION TO ACTIVE MAINS AND CAP WATER TIGHT. FIELD VERIFY EXACT LOCATION, SIZE AND LOCATION OF ACTIVE MAINS. NO INACTIVE AND DEAD END MAINS SHALL REMAIN WITHIN WORK AREA. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

② DISCONNECT AND REMOVE EXISTING ELECTRIC WATER COOLER AND ALL ASSOCIATED SUPPORTS. REMOVE SANITARY PIPING BACK DOWN TO BELOW FLOOR BACK TO MAIN AND CAP WATER TIGHT. REMOVE VENT PIPING IN ITS' ENTIRETY BACK TO CONNECTION TO MAIN ABOVE CEILING AND CAP WATER TIGHT. REMOVE COLD WATER PIPING IN ITS' ENTIRETY BACK TO CONNECTION TO ACTIVE MAINS AND CAP WATER TIGHT. FIELD VERIFY EXACT LOCATION, SIZE AND LOCATION OF ACTIVE MAINS. NO INACTIVE AND DEAD END MAINS SHALL REMAIN WITHIN WORK AREA. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

③ DISCONNECT AND REMOVE EXISTING SINK, FAUCET AND ALL ASSOCIATED SUPPORTS. REMOVE SANITARY PIPING BACK DOWN TO BELOW FLOOR BACK TO MAIN AND CAP WATER TIGHT. REMOVE VENT PIPING IN ITS' ENTIRETY BACK TO CONNECTION TO MAIN ABOVE CEILING AND CAP WATER TIGHT. REMOVE HOT AND COLD WATER PIPING IN ITS' ENTIRETY BACK TO CONNECTION TO ACTIVE MAINS AND CAP WATER TIGHT. FIELD VERIFY EXACT LOCATION, SIZE AND LOCATION OF ACTIVE MAINS. NO INACTIVE AND DEAD END MAINS SHALL REMAIN WITHIN WORK AREA. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

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⑤ REMOVE EXISTING HOT AND COLD WATER PIPING ALONG WALL IN ITS' ENTIRETY. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑥ REMOVE EXISTING HOT AND COLD WATER PIPING IN ITS' ENTIRETY BACK TO CONNECTION TO ACTIVE MAINS AND CAP WATER TIGHT. FIELD VERIFY EXACT LOCATION, SIZE AND LOCATION OF ACTIVE MAINS. NO INACTIVE AND DEAD END MAINS SHALL REMAIN WITHIN WORK AREA. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑦ REMOVE EXISTING CLEANOUT DECK PLATE AND MAKE READY FOR INSTALLATION OF NEW CLEANOUT DECK PLATE INTO NEW FLOOR SURFACE. SEE NEW WORK PLAN.

⑧ EXISTING STORM DRAIN PIPING TO REMAIN.

⑨ REMOVE EXISTING SANITARY PIPING LOW ALONG WALL IN ITS' ENTIRETY DOWN TO BELOW FLOOR BACK TO CONNECTION TO MAIN AND CAP WATER TIGHT. FIELD VERIFY EXACT LOCATION, SIZE AND LOCATION OF ACTIVE MAINS. NO INACTIVE AND DEAD END MAINS SHALL REMAIN WITHIN WORK AREA. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑩ REMOVE EXISTING 2" SANITARY PIPING STUBBING 6" ABOVE FINISHED FLOOR DOWN TO BELOW FLOOR BACK TO CONNECTION TO MAIN AND CAP WATER TIGHT. FIELD VERIFY EXACT LOCATION, SIZE AND LOCATION OF ACTIVE MAINS. NO INACTIVE AND DEAD END MAINS SHALL REMAIN WITHIN WORK AREA. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

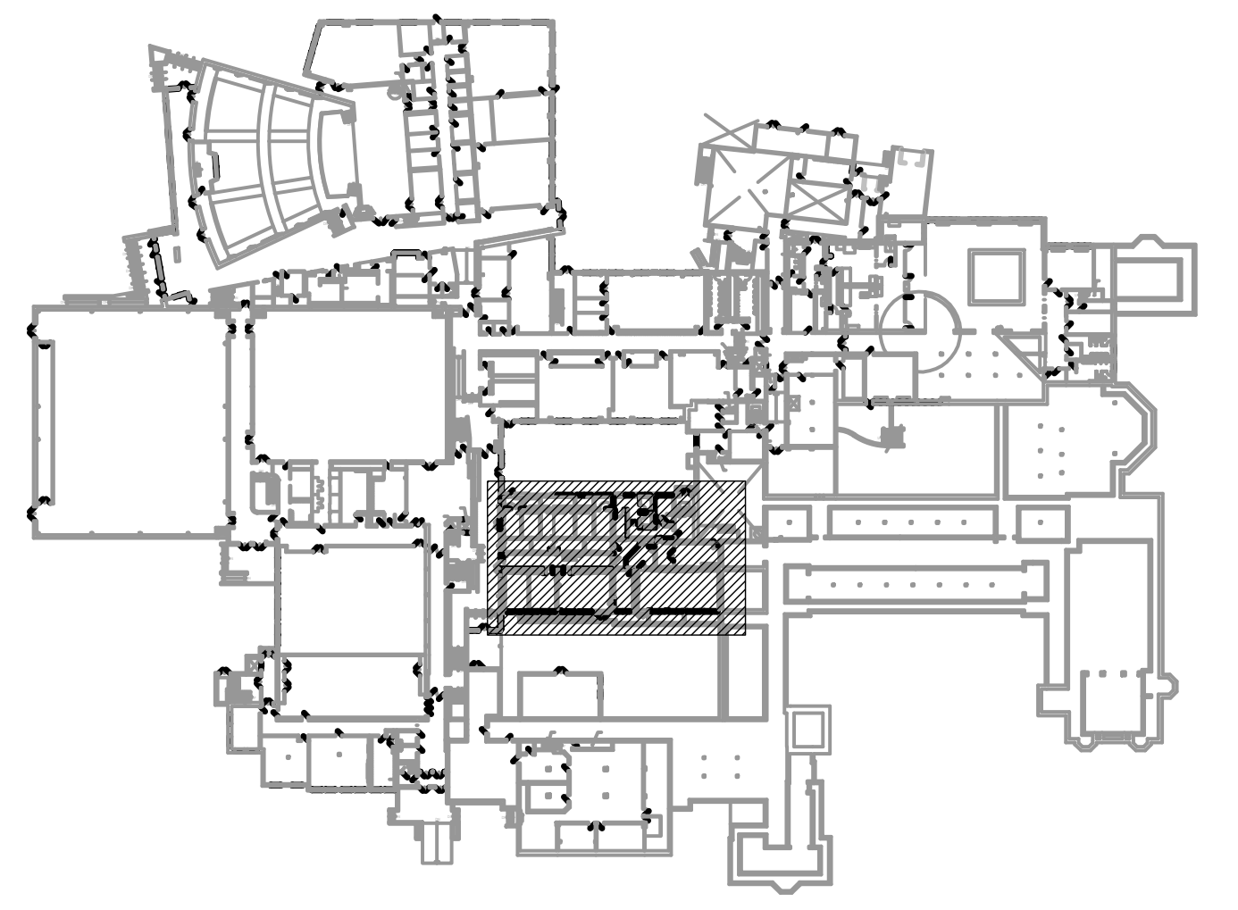
⑪ REMOVE EXISTING CLEANOUT DECK PLATE AND RELATED SANITARY PIPING BACK TO CONNECTION TO MAIN AND CAP WATER TIGHT. FIELD VERIFY EXACT LOCATION, SIZE AND LOCATION OF ACTIVE MAINS. NO INACTIVE AND DEAD END MAINS SHALL REMAIN WITHIN WORK AREA. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑫ DURING DEMOLITION AND PRIOR TO NEW CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UNDER SLAB SANITARY PIPING WITH UNDERGROUND UTILITY LOCATOR APPARATUS AND/OR GROUND PENETRATING RADAR. AFTER THE LOCATION OF THE EXISTING PIPING IS VERIFIED, CONTRACTOR SHALL SAW CUT FLOOR, EXCAVATE, AND VERIFY THE DEPTH AND SIZE AND DIRECTION OF FLOW OF THE EXISTING SANITARY PIPING AND REMOVE EXISTING PIPING MAKE READY FOR REPLACEMENT WITH NEW SANITARY PIPING IN SAME LOCATION AS EXISTING. SEE NEW WORK PLAN.

⑬ EXISTING SURFACE MOUNTED SEWAGE EJECTOR LOCATED ON FLOOR IN MECHANICAL ROOM IN BASEMENT BELOW. EXISTING BASIN TO REMAIN. CONTRACTOR SHALL REMOVE EXISTING COVER, PUMPS, DISCHARGE PIPING AND VALVES, FLOAT CONTROLS, AND CONTROL PANEL, CLEAN EXISTING BASIN, AND MAKE READY FOR REPLACEMENT WITH NEW PUMPS, DISCHARGE PIPING, FLOAT CONTROLS, COVER AND CONTROL PANEL. SEE NEW WORK PLAN.

⑭ REMOVE EXISTING 3" PUMPED DISCHARGE PIPING RISING UP THROUGH FLOOR FROM BASEMENT BELOW AND AT ELECTRICAL ROOM CEILING BACK TO EXISTING SANITARY GRAVITY LINE AND CAP WATER TIGHT. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

⑮ EXISTING 4" GRAVITY SANITARY LINE AT ELECTRICAL ROOM CEILING TO REMAIN. FIELD VERIFY EXACT LOCATION AND SIZE.



KEY PLAN - GROUND FLOOR

NOT TO SCALE

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
AHG

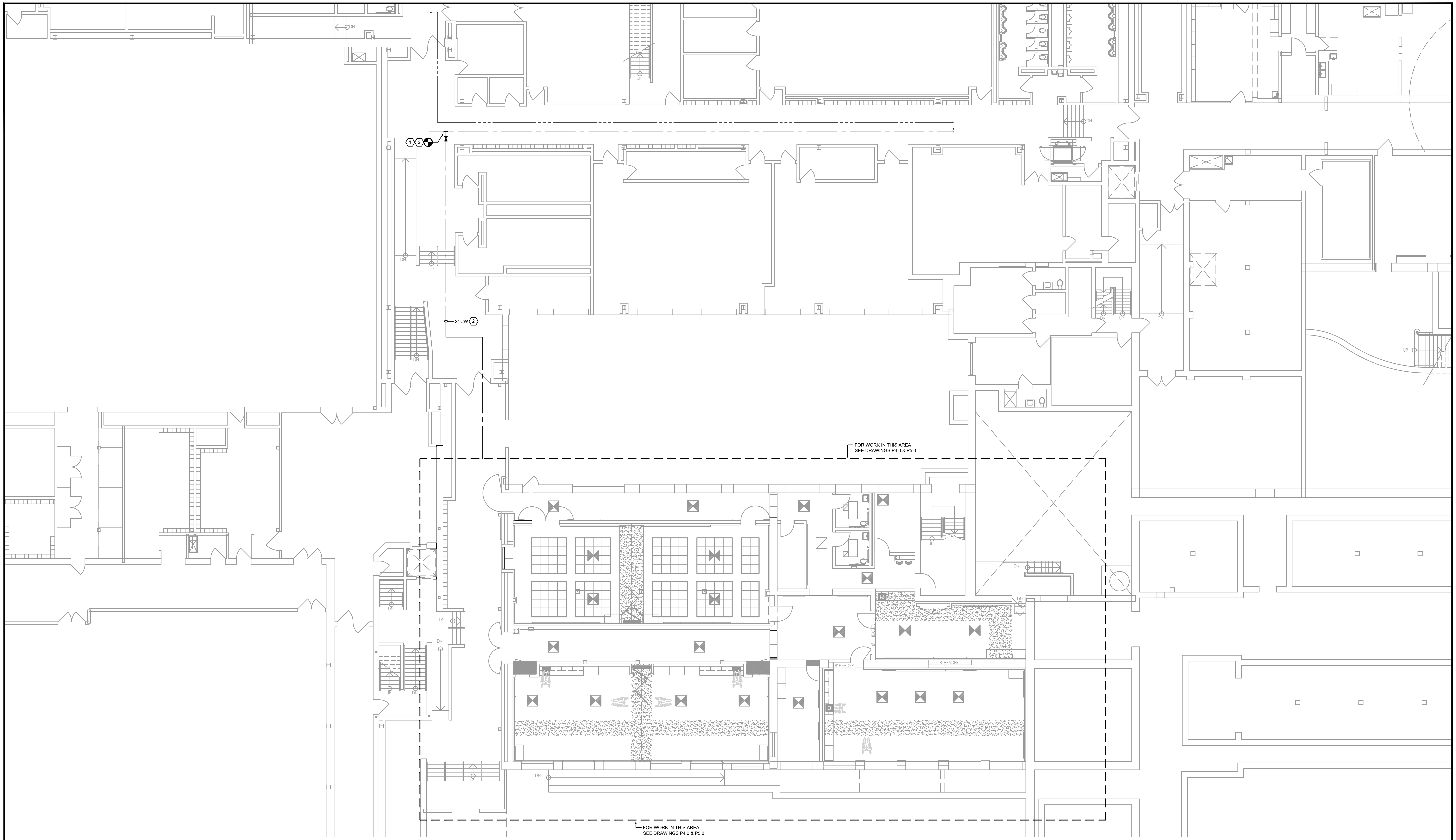
Drawn By
JD

Scale
AS NOTED

Drawing Name
PLUMBING GROUND FLOOR DEMOLITION PLAN

Revisions		
No.	Date	Description

Drawing Number
P2.0

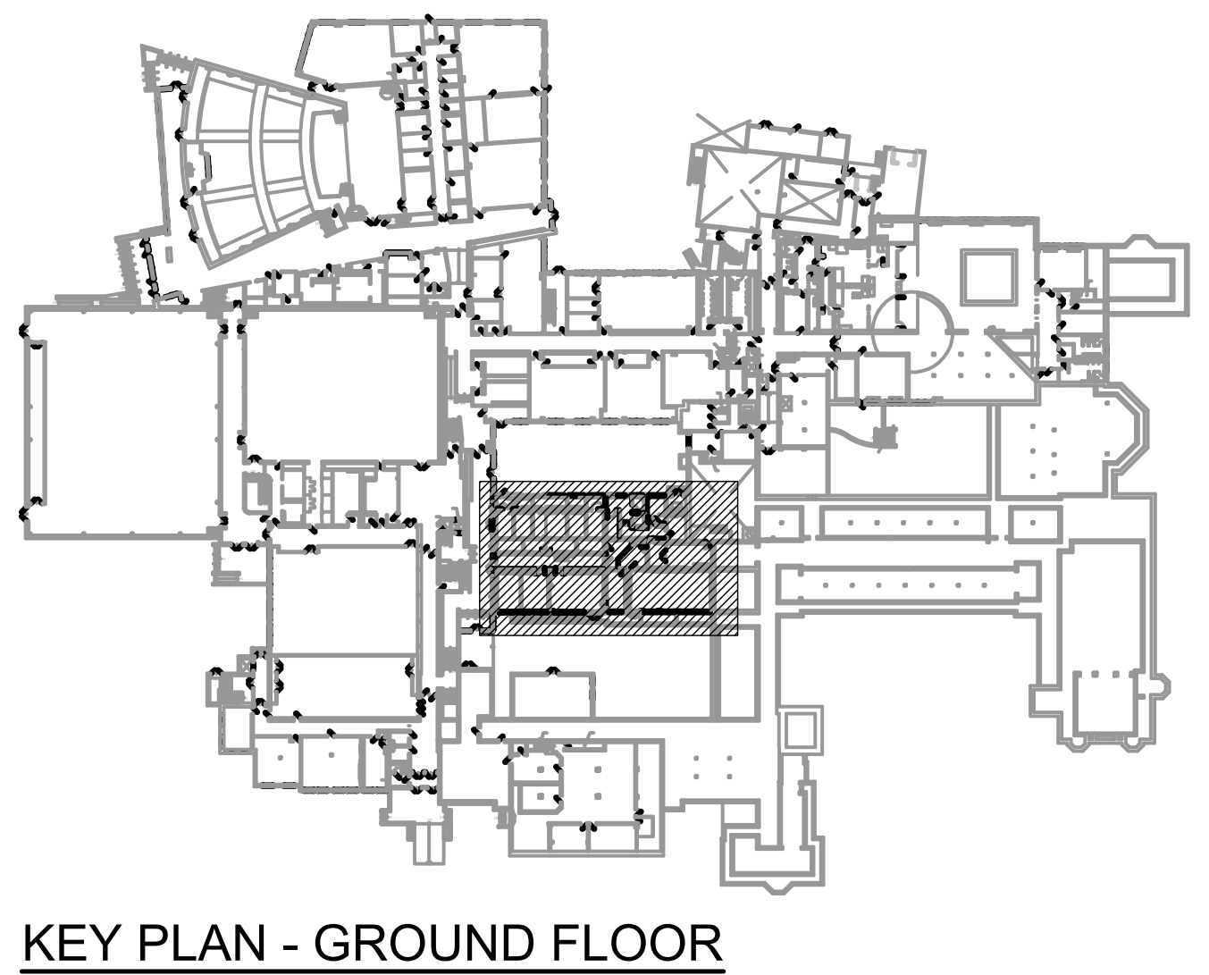


GROUND FLOOR OVERALL PLAN

SCALE: 1/8" = 1'-0"

KEY NOTES

1. CONNECT NEW 2" CW TO EXISTING 3" CW PIPING. EXTEND, MODIFY, AND/OR ADJUST EXISTING PIPING AS REQUIRED TO MAKE CONNECTION. VERIFY IN FIELD EXACT SIZE AND LOCATION OF EXISTING PIPING.
2. CAREFULLY REMOVE EXISTING CEILING TILE FOR THIS WORK AND REINSTALL IN ORIGINAL CONDITION. CONTRACTOR RESPONSIBLE TO REPLACE ANY CEILING TILE DAMAGED AS PART OF THIS WORK WITH NEW TILE TO MATCH EXISTING.



KEY PLAN - GROUND FLOOR

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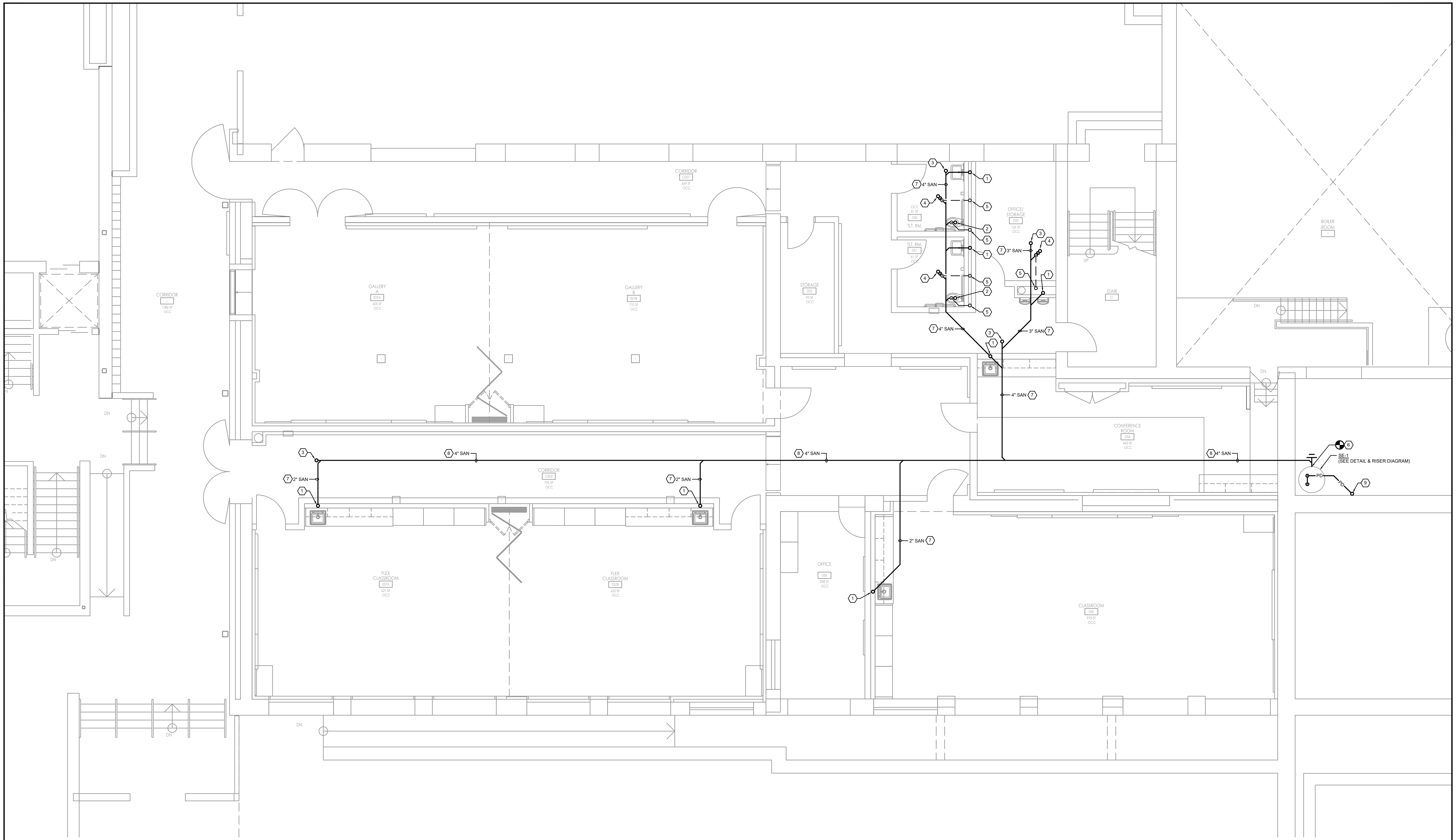
Scale
AS NOTED

Drawing Name
PLUMBING GROUND FLOOR OVERALL PLAN

Revisions

No.	Date	Description

Drawing Number
P3.0

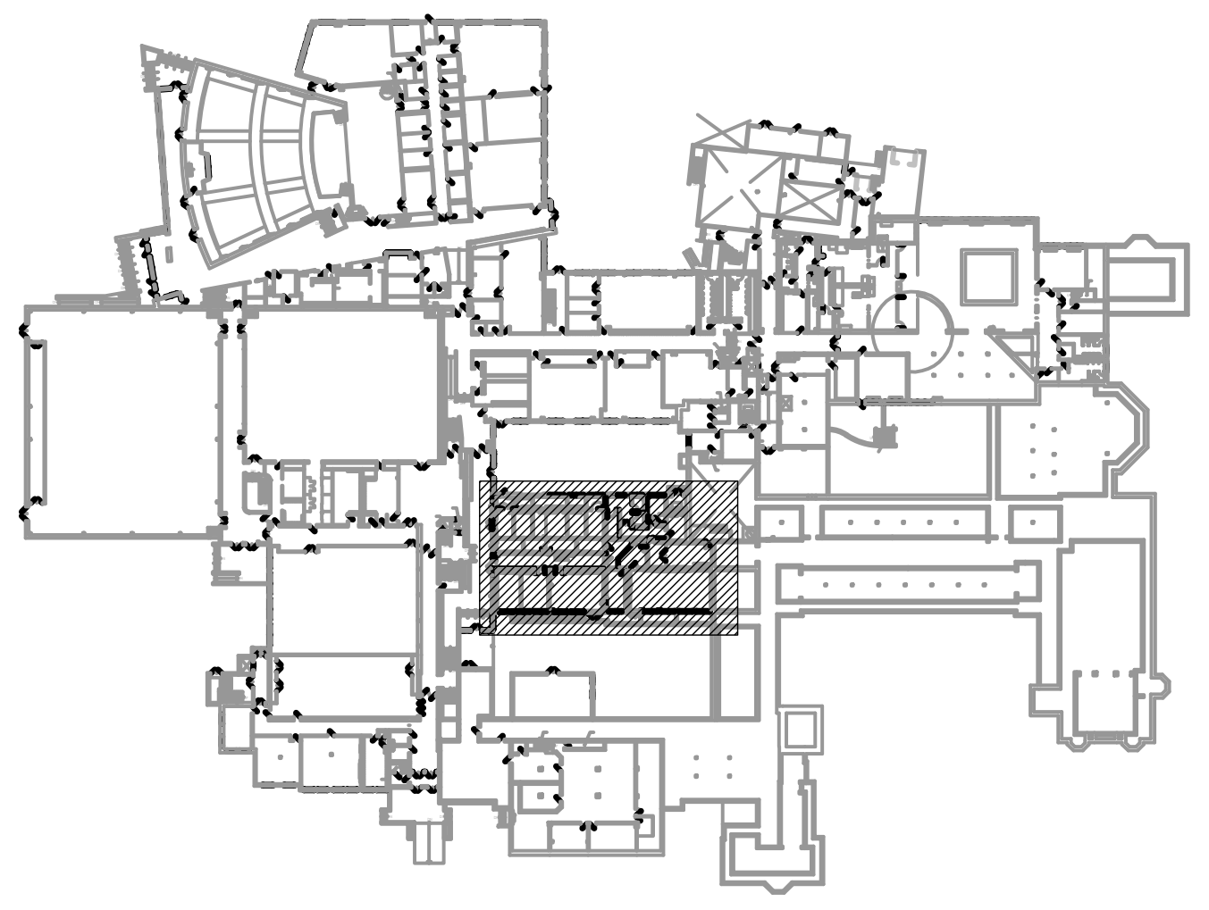


UNDERSLAB PIPING PLAN

SCALE: 1/4" = 1'-0"

KEY NOTES

1	2" SAN UP.
2	4" SAN UP.
3	4" SAN UP TO CODP.
4	3" SAN UP TO FD.
5	2" V UP.
6	CONNECT NEW 4" SANITARY TO EXISTING SURFACE MOUNTED SEWAGE EJECTOR BASIN INLET LOCATED ON FLOOR IN MECHANICAL ROOM IN BASEMENT. PROVIDE ALL NECESSARY ADAPTORS AS REQUIRED FOR RECONNECTION TO EXISTING CAST IRON BASIN.
7	SAW CUT FLOOR AS REQUIRED TO INSTALL NEW UNDERSLAB PIPING. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
8	ROUTE NEW SANITARY PIPING IN SAME LOCATION AS WAS EXISTING PIPING. SEE PLUMBING GROUND FLOOR DEMOLITION FLOOR PLAN. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
9	2" PUMPED DISCHARGE UP TO ELECTRICAL ROOM ON FLOOR ABOVE.



KEY PLAN - GROUND FLOOR

NOT TO SCALE

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Project Name
Renovations to
Princeton High
School

Project Owner Name
Princeton Public
Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

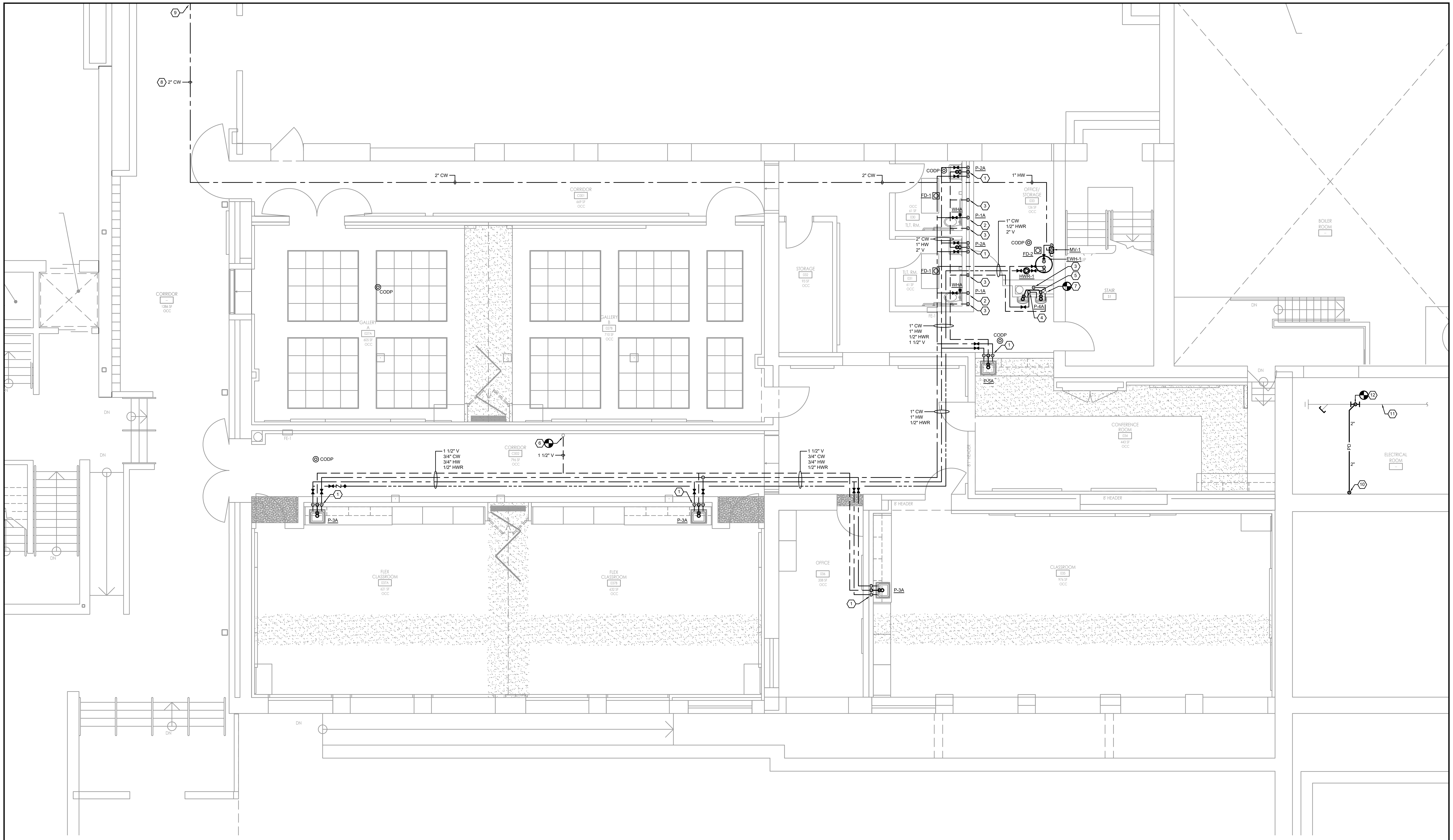
Project Number
5516A2
Project Date
02.06.2026
Checked By
AHG
Drawn By
JD
Scale
AS NOTED

Drawing Name
PLUMBING
UNDERSLAB PIPING
PLAN

Revisions

No.	Date	Description

Drawing Number
P4.0



GROUND FLOOR PLAN

SCALE: 1/4" = 1'-0"

KEY NOTES

⟨1⟩ 2" SAN DN, 1 1/2" V RISE, 1/2" HW DROP, 1/2" CW DROP

⟨2⟩ 1 1/2" CW DROP

⟨3⟩ 2" V DN

⟨4⟩ 1/2" CW DROP

⟨5⟩ 2" SAN DN, 1 1/2" V RISE

⟨6⟩ CONNECT NEW 1 1/2" VENT PIPING TO EXISTING 1 1/2" VENT PIPING SERVING REMOVED SINK. VERIFY IN FIELD EXACT SIZE AND LOCATION OF EXISTING PIPING. EXTEND, MODIFY, AND/OR ADJUST EXISTING PIPING AS REQUIRED TO MAKE CONNECTION.

⟨7⟩ CONNECT NEW 2" VENT PIPING TO EXISTING 2" VENT PIPING SERVING REMOVED WATER CLOSET. VERIFY IN FIELD EXACT SIZE AND LOCATION OF EXISTING PIPING. EXTEND, MODIFY, AND/OR ADJUST EXISTING PIPING AS REQUIRED TO MAKE CONNECTION.

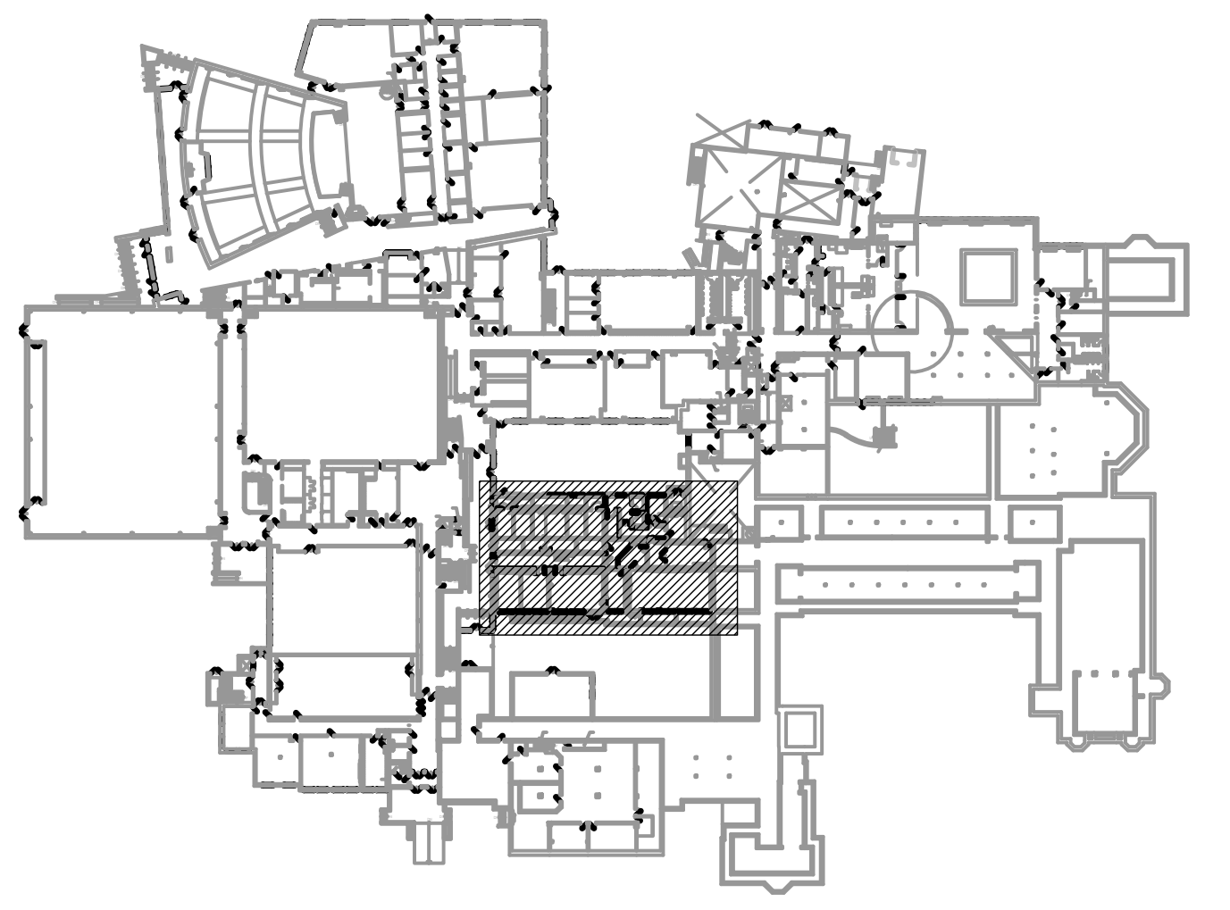
⟨8⟩ CAREFULLY REMOVE EXISTING CEILING TILE FOR THIS WORK AND REINSTALL IN ORIGINAL CONDITION. CONTRACTOR RESPONSIBLE TO REPLACE ANY CEILING TILE DAMAGED AS PART OF THIS WORK WITH NEW TILE TO MATCH EXISTING.

⟨9⟩ REFER TO P3.0 FOR CONTINUATION.

⟨10⟩ 2" PUMPED DISCHARGE DOWN TO MECHANICAL ROOM BELOW FLOOR IN BASEMENT BELOW. PIPING SHALL NOT BE INSTALLED IN FRONT OF OR OVER ANY ELECTRICAL PANELS OR EQUIPMENT. COORDINATE EXACT LOCATION OF DROP IN THE FIELD.

⟨11⟩ EXISTING 4" GRAVITY SANITARY LINE AT ELECTRICAL ROOM CEILING. FIELD VERIFY EXACT LOCATION AND SIZE.

⟨12⟩ CONNECT NEW 2" PUMPED DISCHARGE PIPING TO EXISTING 4" SANITARY PIPING. EXTEND, OFFSET, MODIFY AND ADJUST EXISTING PIPING AS REQUIRED TO MAKE CONNECTION.



KEY PLAN - GROUND FLOOR

NOT TO SCALE

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William D. Hopkins
Architect

2/06/26
Date

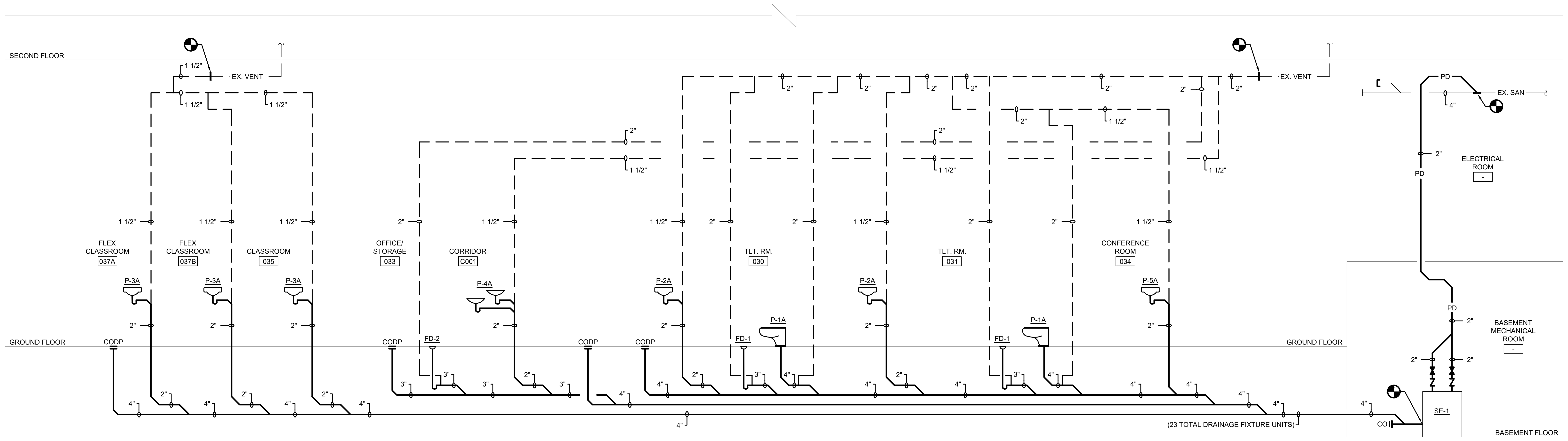
Project Name	Renovations to Princeton High School
Project Owner Name	Princeton Public Schools
Project Location	151 Moore Street, Princeton, NJ 08540
Project Number	5516A2
Project Date	02.06.2026
Checked By	AHG
Drawn By	JD
Scale	AS NOTED
Drawing Name	PLUMBING GROUND FLOOR PLAN

Revisions

No.	Date	Description

Drawing Number

P5.0



SANITARY RISER DIAGRAM

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2
Project Date
02.06.2026
Checked By
AHG
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Scale
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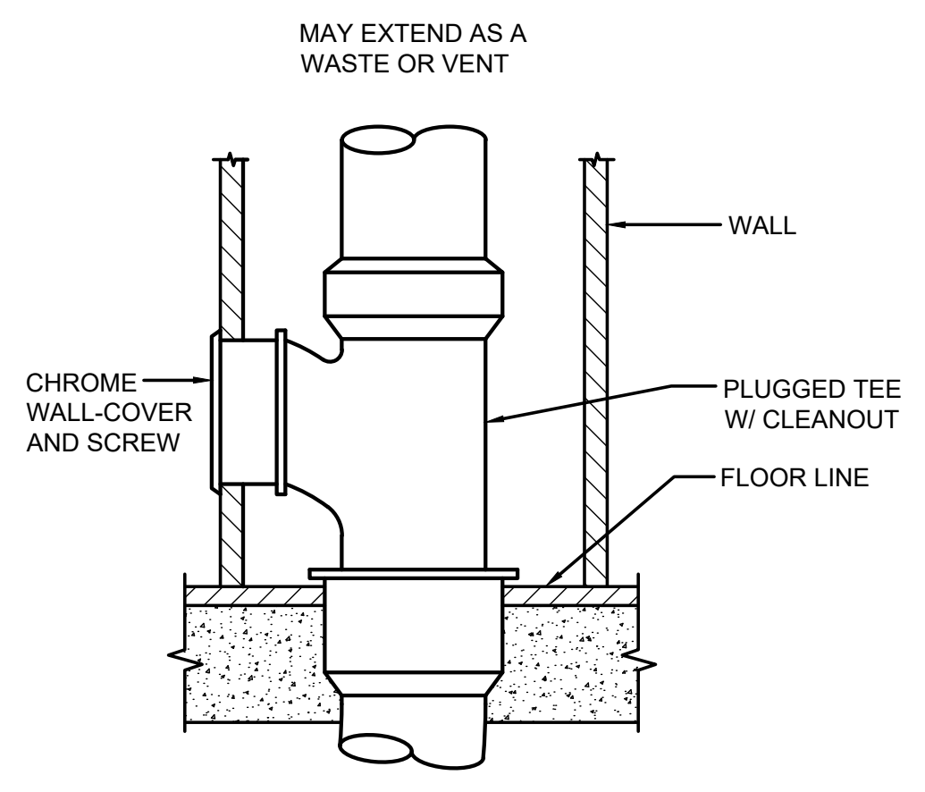
Drawing Name
PLUMBING RISER DIAGRAMS

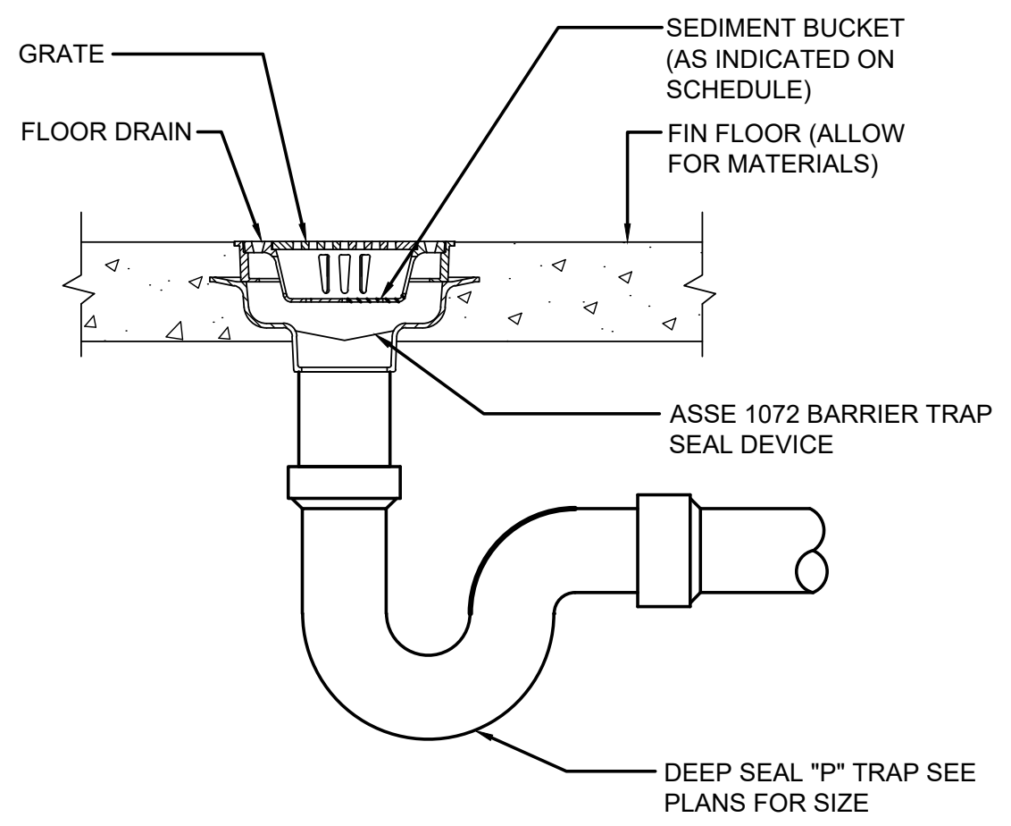
Revisions

No.	Date	Description

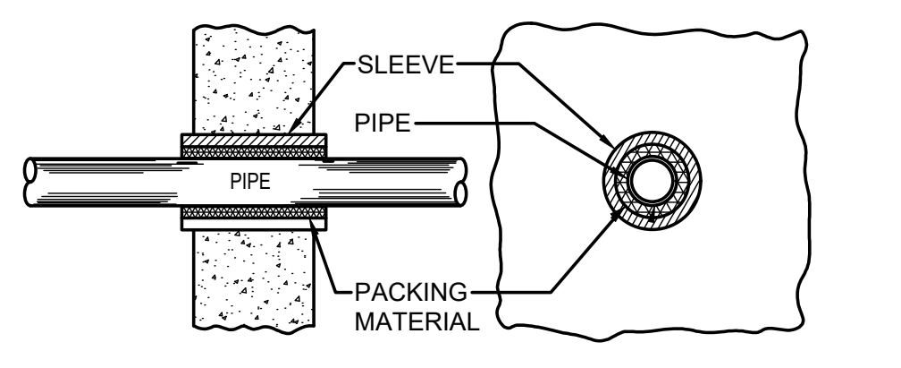
Drawing Number
P6.0



WALL CLEANOUT DETAIL
NOT TO SCALE



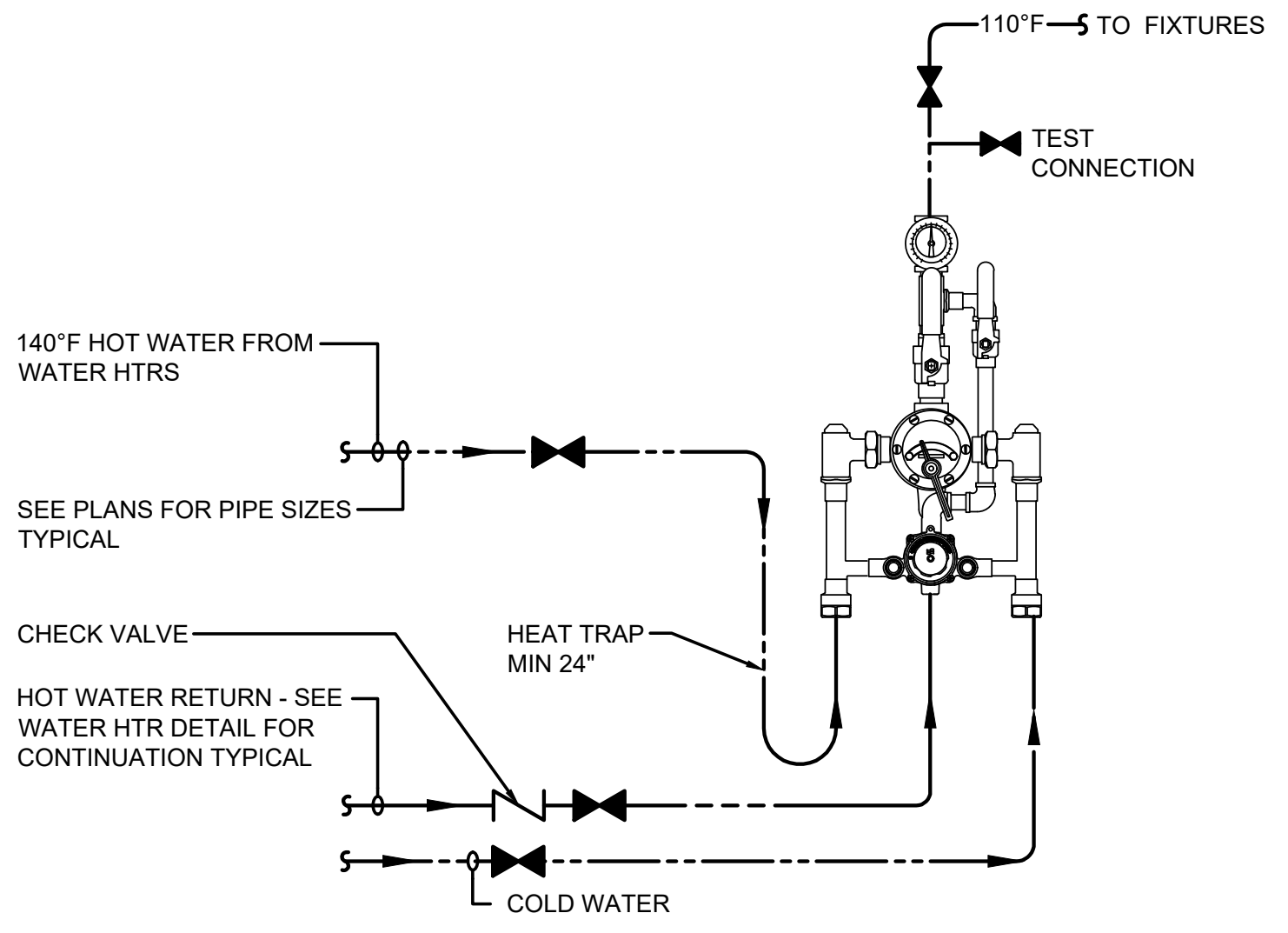
TYPICAL FLOOR DRAIN DETAIL
NOT TO SCALE



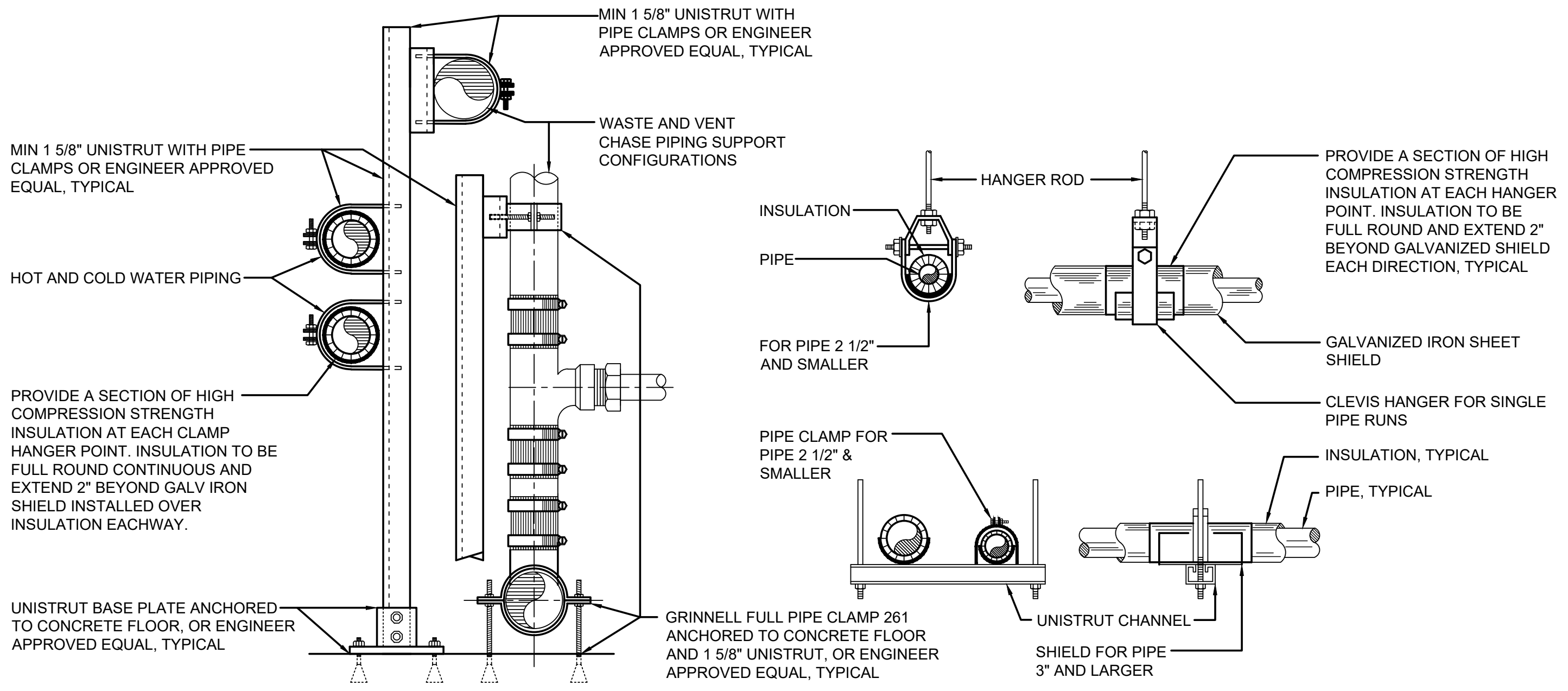
(CONCRETE AND FOUNDATION WALLS)

NOTE:
NO STRUCTURAL STRAIN SHOULD BE TRANSMITTED FROM ANY WALL TO THE PIPING SYSTEM THE SLEEVING, RELIEVING ARCH, OR STRUCTURAL BEAM SUPPORT METHODS PROTECT THE PIPING FROM SUPERIMPOSED LOADS THE "PACKING" MATERIAL AROUND THE PIPE IS FLEXIBLE ENOUGH TO RESPOND TO SETTLING IN THE STRUCTURE OR PIPING

WALL PENETRATION PIPE SLEEVE DETAIL
NOT TO SCALE

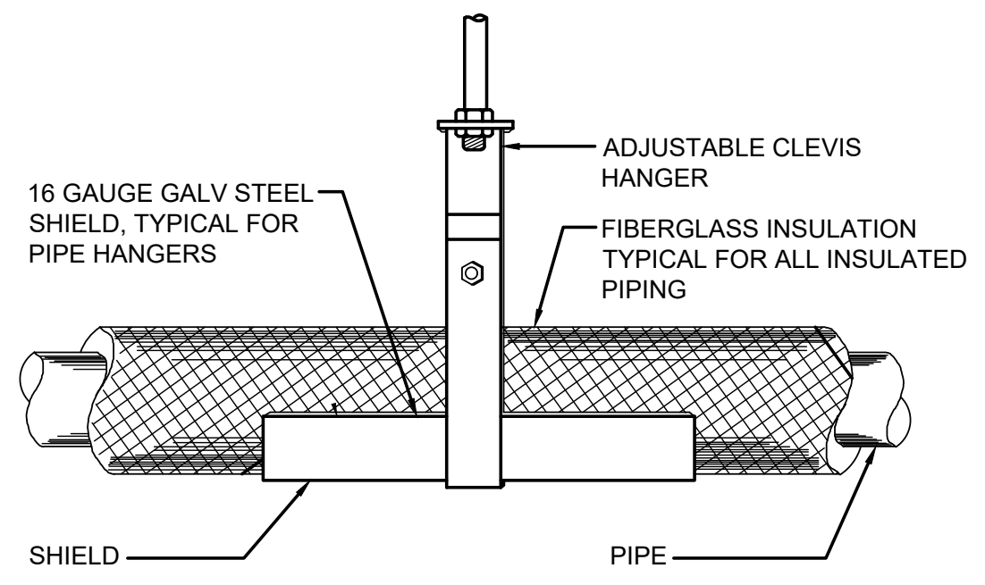


HIGH LOW MIXING VALVE DETAIL (MV-1)
NOT TO SCALE

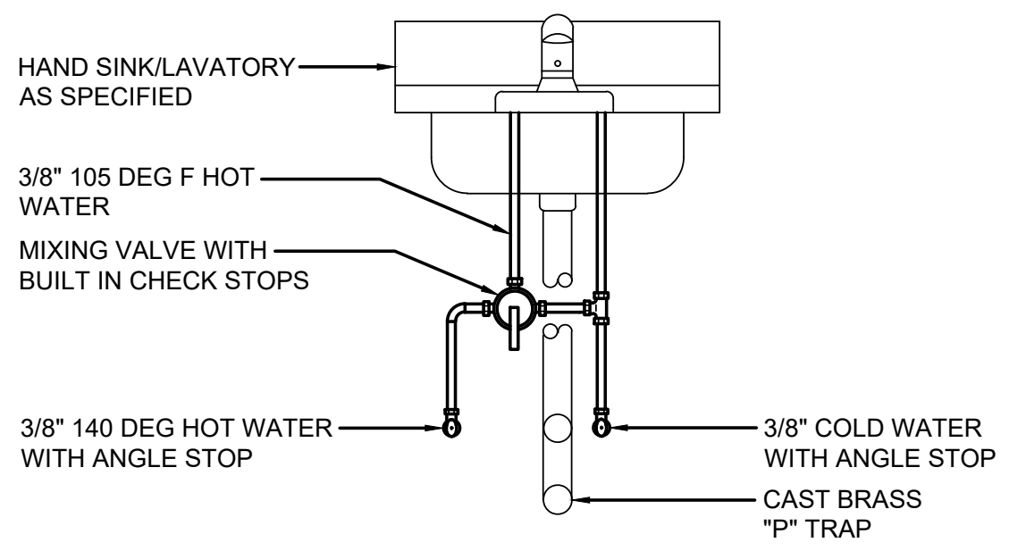


NOTE: FOR 4" AND SMALLER PIPING: SNAP N SHIELD BY EATON OR ENGINEER APPROVED EQUAL CLEVIS AND PIPE SUPPORTS SHALL BE PERMITTED.

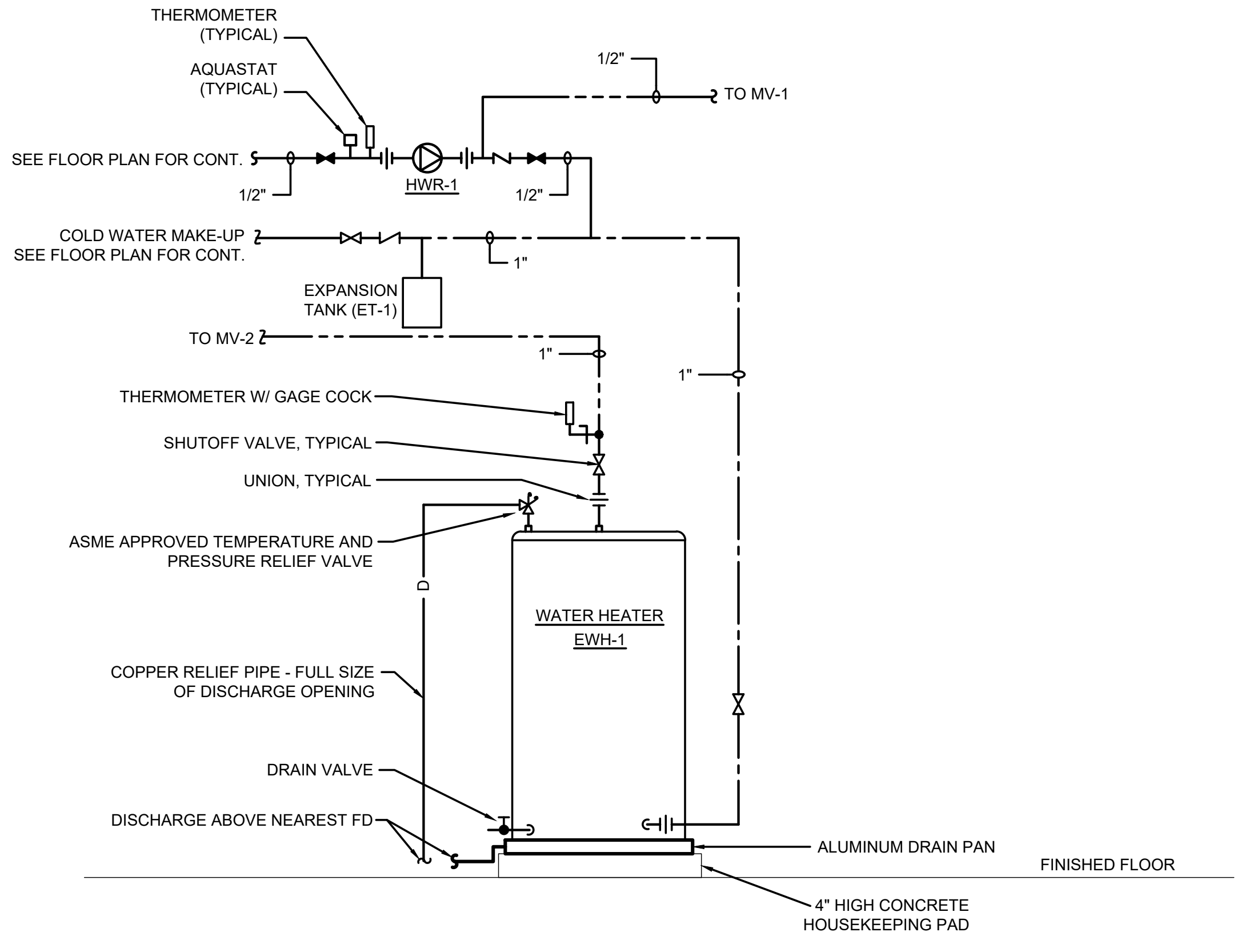
PIPE HANGERS & SUPPORT DETAIL - WATER, WASTE & VENT
NOT TO SCALE



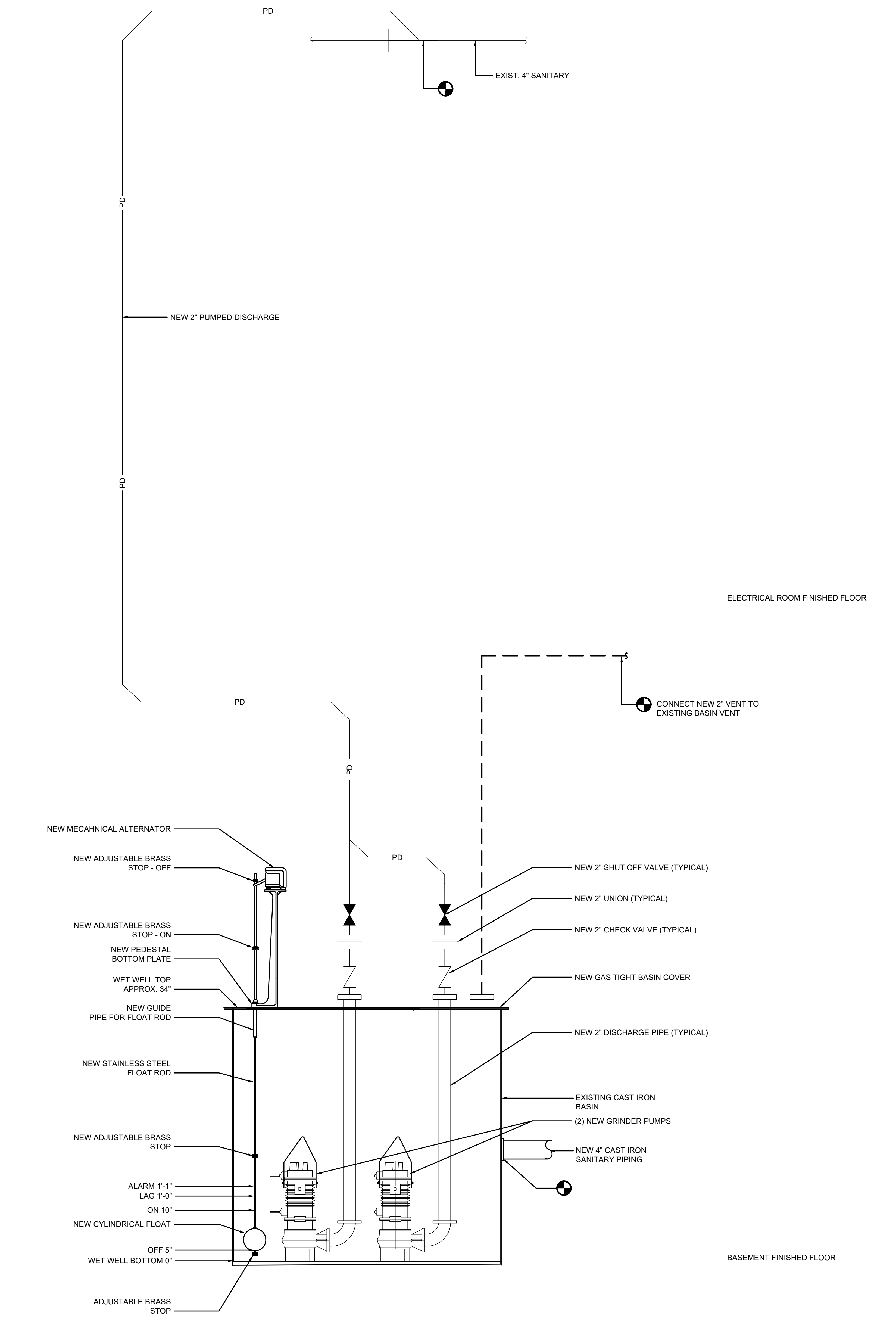
TYPICAL PIPE HANGER DETAIL
NOT TO SCALE



MIXING VALVE AT HAND SINKS AND LAVATORIES
NOT TO SCALE



FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



SANITARY DUPLEX SUBMERSIBLE PUMP DETAIL
NOT TO SCALE

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F V H D P C . C O M

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2
Project Date
02.06.2026
Checked By
AHG
Drawn By
JD
Scale
AS NOTED

Drawing Name
PLUMBING DETAILS

Revisions		
No.	Date	Description

Drawing Number
P7.0

FIRE PROTECTION GENERAL NOTES

1. DO NOT SCALE FROM THESE DRAWINGS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE AND ADOPTED REGULATIONS INCLUDING BUT NOT LIMITED TO NFPA REQUIREMENTS, NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL FIRE PROTECTION MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN FIRE SPRINKLER PERMIT/FILE THE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
3. THE DRAWINGS HAVE BEEN PRODUCED ENTIRELY ON FPA CADD SYSTEM. ANY OTHER LETTERING, LINES OR SYMBOLS, OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE AUTHORIZATION OF FPA AND ARE INVALID.
4. REPRODUCTION OF ANY PORTION OF THE CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
5. SHOP DRAWINGS BEARING THE APPROVAL OF THE INSURANCE UNDERWRITER SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE BEFORE ANY WORK IS STARTED.
6. FURNISH AND LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE FIRE SUPPRESSION SYSTEM WHERE SHOWN ON DRAWINGS AND REQUIRED BY NFPA 13 AND LOCAL AUTHORITIES.
7. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, DETAILED CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER AND FIRE SUB-CODE OFFICIAL, PRIOR TO THE INSTALLATION OF ANY EQUIPMENT. OBTAIN CERTIFICATE OF INSPECTION AND APPROVAL FROM THE SAME AGENCY HAVING JURISDICTION AFTER INSTALLATION. FIRE SUPPRESSION CONSTRUCTION DRAWINGS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE AREA WHERE THE PROJECT IS LOCATED.
8. SPRINKLER HEADS SHALL NOT INTERFERE WITH LIGHTING FIXTURES, SPEAKERS, DUCTWORK, AIR CONDITIONING DIFFUSERS AND GRILLES, ETC. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PRIOR TO SUBMITTING SHOP DRAWING.
9. THE FIRE PROTECTION DRAWINGS ARE INTENDED TO INDICATE, ONLY DIAGRAMMATICALLY, THE EXTENT AND THE GENERAL CHARACTER AND LOCATIONS OF THE WORK INCLUDED.
10. COORDINATE ALL FIRE SPRINKLER WORK WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER TRADES. SPRINKLER SHALL BE LOCATED IN CENTER OF CEILING TILE OR IN QUARTER POINT OF 4' DIMENSION AND CENTER OF 2' DIMENSION.
11. ALL SPRINKLER PIPING SHALL BE SEISMICALLY BRACED AND PITCHED FOR DRAINAGE.
12. CHANGES OR SUBSTITUTIONS OF EQUIPMENT WILL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER. ALL COSTS RESULTING FROM THE SELECTION OF OTHER THAN SPECIFIED EQUIPMENT SHALL BE BORNE BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO WORK AFFECTING OTHER CONTRACTORS, THE OWNER, OR RE-DESIGN ISSUES.
13. ALL INDICATED WORK SHALL BE PERFORMED BY THE FIRE PROTECTION CONTRACTOR UNLESS OTHERWISE NOTED.
14. DO NOT USE ANY PART OF THE OWNER'S BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES BY THE OWNER.
15. ALL CONTRACT WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE WRITTEN SPECIFICATIONS FOR THIS PROJECT WHICH ARE CONSIDERED TO BE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL MAINTAIN (AT THE JOB SITE) AND REFER TO COPIES OF THE WRITTEN SPECIFICATIONS AS PART OF THESE DRAWINGS. REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE. IN ALL CASES OF DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN AND WHERE IT IS UNCLEAR, SUCH CASES SHALL BE REFERRED TO THE ENGINEER FOR ADJUDICATION.
16. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED HVAC, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DECOR AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BID SUBMISSION.
17. THE FIRE PROTECTION CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, ELECTRICAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, THE FIRE PROTECTION CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
18. CONTRACTOR SHALL COORDINATE HIS SCHEDULING WITH THE GENERAL CONTRACTOR.
19. IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS, IE ASBESTOS, IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL REPORT THE DISCOVERY IMMEDIATELY TO THE OWNER. THE CONTRACTOR SHALL STOP ANY WORK THAT MAY DISTURB THE SUSPECTED HAZARDOUS MATERIAL. CONTRACTOR SHALL RESUME WORK AFTER ALL HAZARDOUS MATERIAL HAS BEEN REMEDIATED.
20. CONTRACTOR RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR OR REIMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE AND EQUIVALENCY. CONTRACTOR SHALL ADVISE OWNER FOR DISPOSITION OR REMOVED EQUIPMENT AND/OR MATERIALS.
21. PIPING SHOWN ON DRAWINGS SHOW THE GENERAL RUN AND CONNECTIONS AND MAY OR MAY NOT IN ALL PARTS BE SHOWN IN ITS EXACT POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING THE PIPING SUITABLE IN EVERY RESPECT FOR THE WORK. PIPING SHALL BE INSTALLED SO THAT ACCESS, CLEARANCE, HEADROOM AND PITCH ARE MAINTAINED. CONTRACTORS OF THE VARIOUS TRADES SHALL COORDINATE THE INSTALLATION.
22. ALL CONTRACTORS SHALL PROVIDE CUTTING AND PATCHING FOR THEIR RESPECTIVE TRADES.
23. ALL SPRINKLER PIPING TO RUN AS HIGH AS POSSIBLE. ALL MAINS SHALL BE RUN TIGHT TO STEEL. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
24. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
25. ALL PIPING SYSTEM PENETRATIONS OF FIRE-RATED WALLS AND FLOOR SHALL BE SEALED WITH UL APPROVED FIRE RESISTANT JOINT SEALER, SPECIFIED TECHNOLOGIES "PENSIL 200" OR EQUAL, TWO-PART FOAMED-IN-PLACE SILICONE SEALANT. FIRE RESISTANT SEALER SHALL BE TESTED IN ACCORDANCE WITH ASTM 814. INSTALL SEALANT, INCLUDING FORMING, PACKING AND OTHER ACCESSORY MATERIALS TO FILL OPENINGS WHERE FIRE-RATED WALL PENETRATIONS OCCUR. COMPLY WITH INSTALLATION REQUIREMENTS ESTABLISHED BY TESTERS AND INSPECTION AGENCY.
26. ALL CONTRACTORS REMOVING ANY EQUIPMENT, PIPES, DUCTS, CONDUITS, ETC. SHALL PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
27. REFER TO SPECIFICATIONS FOR SPRINKLER HEAD AND ESCUTCHEON FINISHES AND COLORS.
28. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPES, PIPE CONNECTIONS AND ACCESS DOORS. THESE PLANS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.
29. GUARANTEE ALL WORK, MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY.

DESIGN CRITERIA:

1. FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED BASED ON THE FOLLOWING CRITERIA:

CLASSROOMS, OFFICE ROOMS, MULTI PURPOSE ROOM, CAFFETERIA, CORRIDORS BAND ROOM, CHOIR ROOM, TOILET ROOMS AND LOBBIES

OCCUPANCY:	LIGHT HAZARD
DENSITY:	0.10 GPM/SQ FT
DESIGN AREA:	1,500 SQ FT
MAXIMUM AREA PER SPRINKLER:	PER UL LISTING
HOSE ALLOWANCE:	100 GPM

STORAGE ROOMS, MECHANICAL/ELECTRICAL ROOMS AND JANITOR'S CLOSET

OCCUPANCY:	ORDINARY HAZARD GROUP 1
DENSITY:	0.15 GPM/SQ FT
DESIGN AREA:	1,500 SQ FT
MAXIMUM AREA PER SPRINKLER:	PER UL LISTING
HOSE ALLOWANCE:	250 GPM

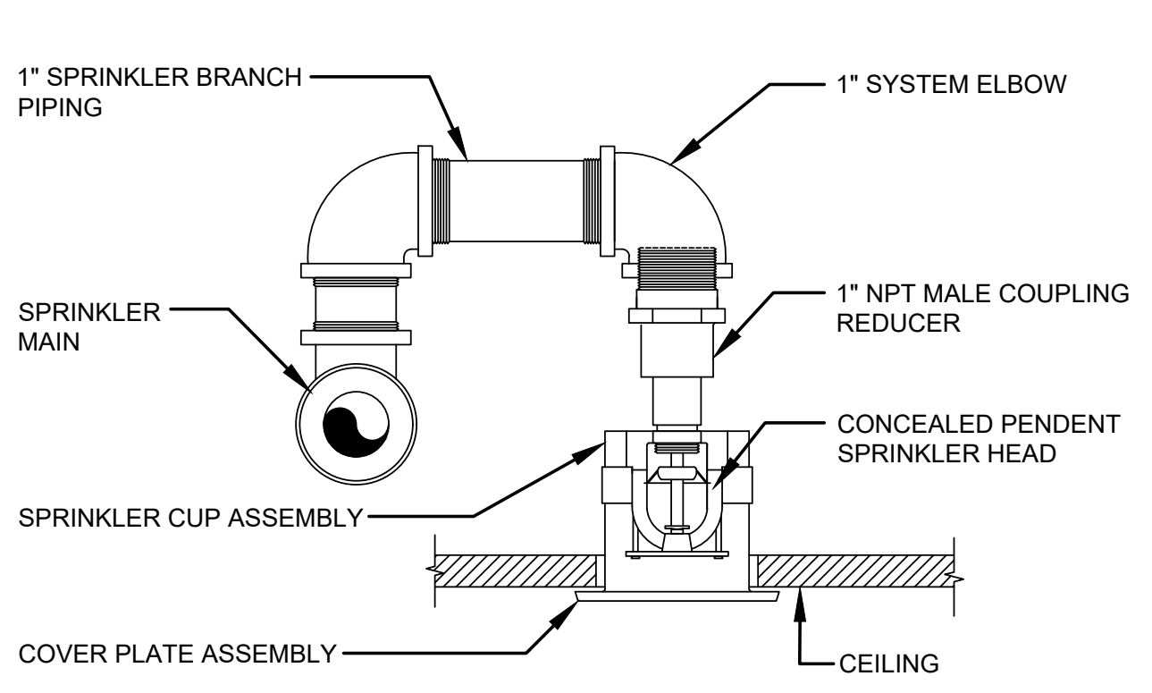
THE CONTRACTOR SHALL PERFORM NEW HYDRANT FLOW TESTS, AS PART OF THE WORK OF THIS CONTRACT, AND SHALL USE THE NEW HYDRANT FLOW TEST RESULTS FOR THE HYDRAULIC CALCULATIONS.

2. SPRINKLER HEADS SHALL HAVE A 1/2" NOMINAL ORIFICE AND A TEMPERATURE RATING OF 165°F AND SHALL BE QUICK RESPONSE. IN AREAS WITH CEILINGS, SPRINKLER HEADS SHALL BE CONCEALED WITH WHITE COVER PLATE. IN AREAS WITHOUT CEILINGS, SPRINKLER HEADS SHALL BE UPRIGHT.
3. ALL DROP NIPPLES SHALL BE 1" UNLESS OTHERWISE NOTED.

APPLICABLE CODES:

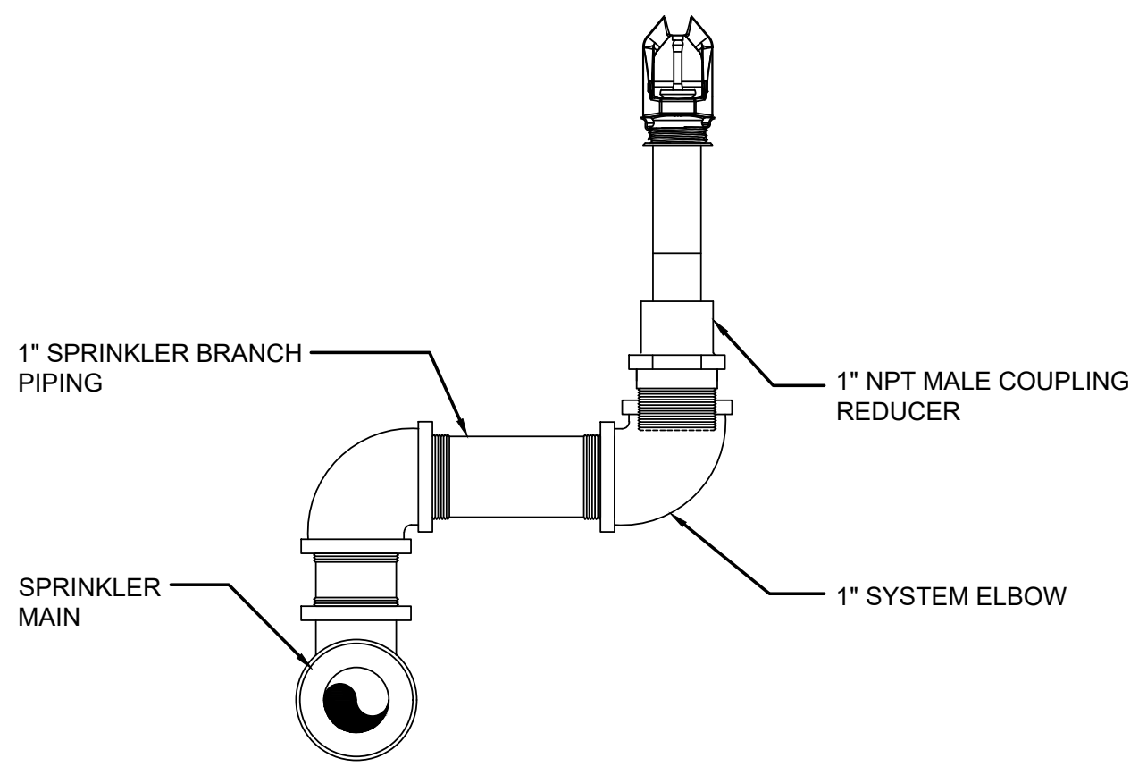
ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST CODES AND SUBCODES AS ADOPTED BY THE STATE OF NEW JERSEY:

- NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC)
- REHABILITATION SUBCODE 5:23-6
- ADMINISTRATIVE CODE: TITLE 6
- 2021 INTERNATIONAL BUILDING CODE - NJ EDITION
- 2020 NATIONAL ELECTRICAL CODE
- 2021 NATIONAL STANDARD PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2019 ASHRAE 90.1 ENERGY CONSERVATION CODE
- 2019 NFPA 13
- REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION


1" SPRINKLER BRANCH PIPING
1" SYSTEM ELBOW
SPRINKLER MAIN
1" NPT MALE COUPLING REDUCER
CONCEALED PENDENT SPRINKLER HEAD
SPRINKLER CUP ASSEMBLY
COVER PLATE ASSEMBLY
CEILING

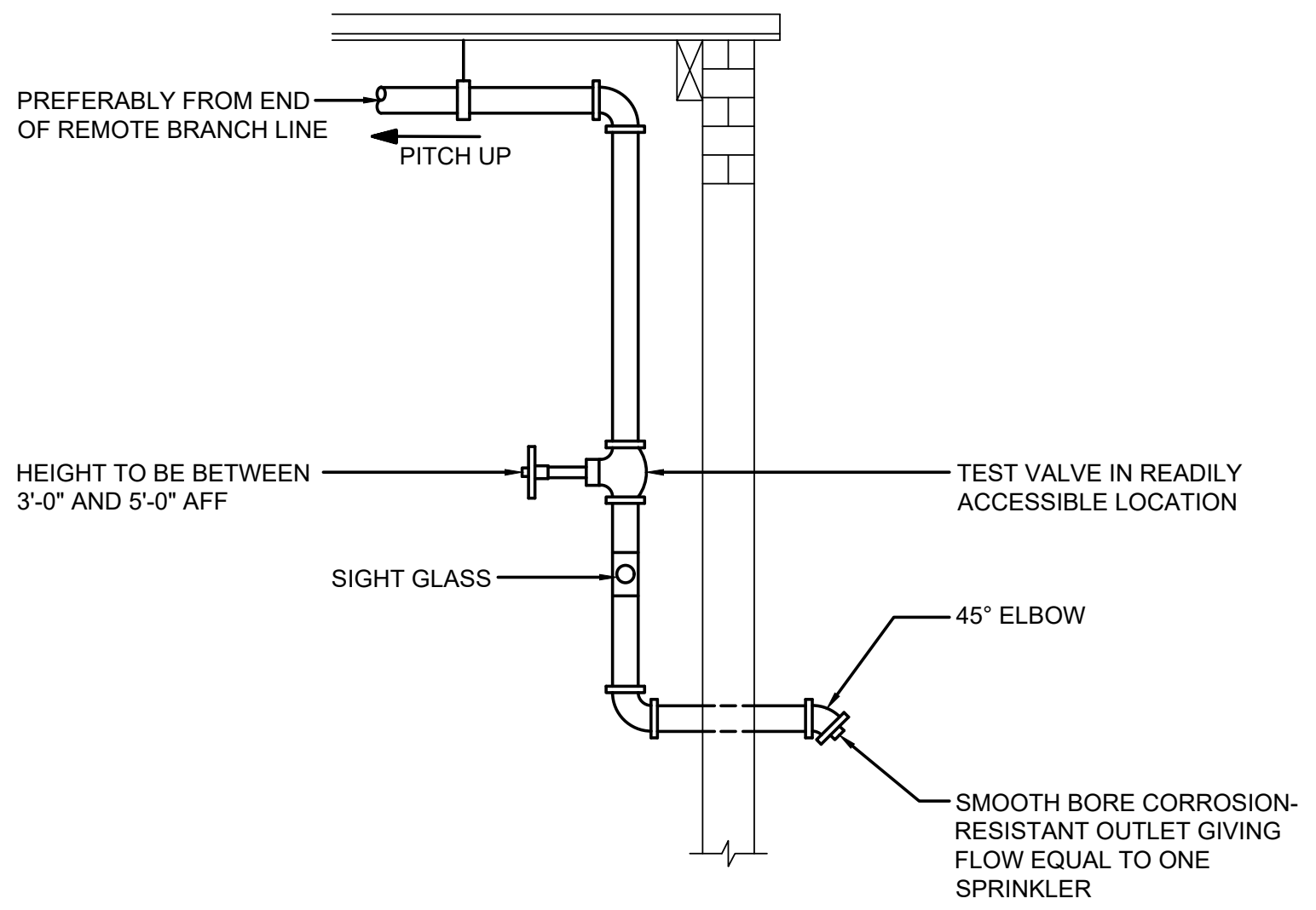
CONCEALED SPRINKLER HEAD

NOT TO SCALE



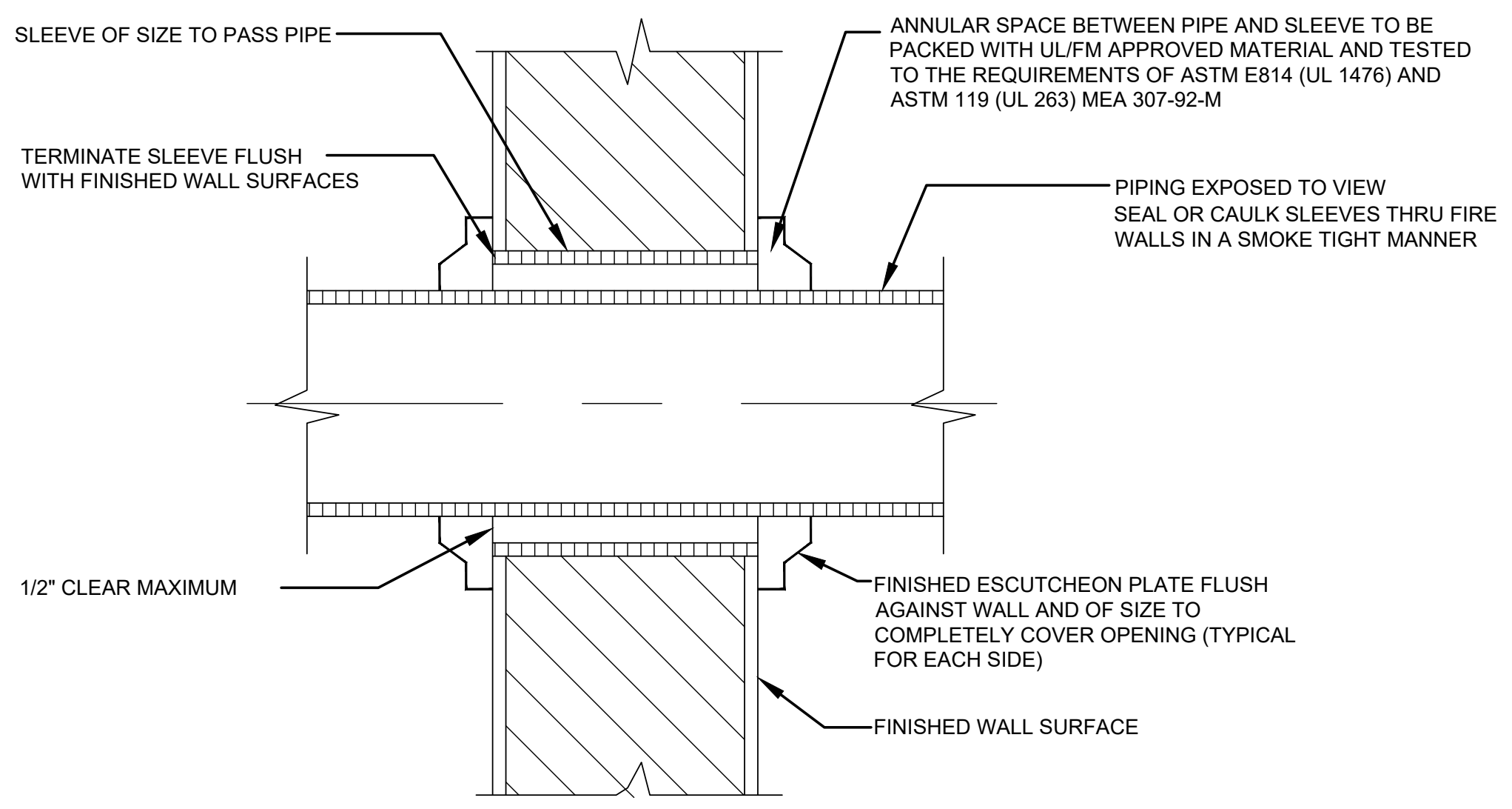
UPRIGHT PENDANT SPRINKLER HEAD

NOT TO SCALE


PREFERABLY FROM END OF REMOTE BRANCH LINE
PITCH UP
HEIGHT TO BE BETWEEN 3'-0" AND 5'-0" AFF
TEST VALVE IN READILY ACCESSIBLE LOCATION
SIGHT GLASS
45° ELBOW
SMOOTH BORE CORROSION-RESISTANT OUTLET GIVING FLOW EQUAL TO ONE SPRINKLER

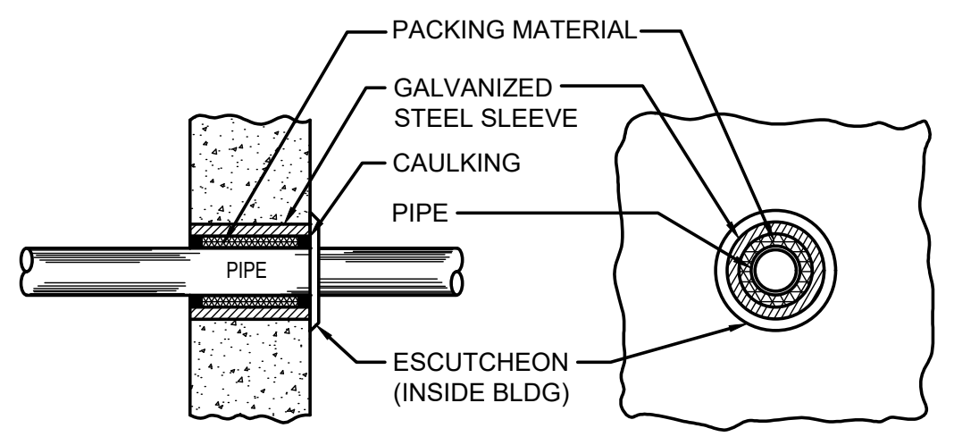
SYSTEM TEST CONNECTION ON WET-PIPE SYSTEM

NOT TO SCALE


SLEEVE OF SIZE TO PASS PIPE
ANNULAR SPACE BETWEEN PIPE AND SLEEVE TO BE PACKED WITH UL/FM APPROVED MATERIAL AND TESTED TO THE REQUIREMENTS OF ASTM E814 (UL 1476) AND ASTM 119 (UL 263) MEA 307-92-M
TERMINATE SLEEVE FLUSH WITH FINISHED WALL SURFACES
PIPING EXPOSED TO VIEW SEAL OR CAULK SLEEVES THRU FIRE WALLS IN A SMOKE TIGHT MANNER
1/2" CLEAR MAXIMUM
FINISHED ESCUTCHEON PLATE FLUSH AGAINST WALL AND OF SIZE TO COMPLETELY COVER OPENING (TYPICAL FOR EACH SIDE)
FINISHED WALL SURFACE

PIPE THRU RATED WALL

NOT TO SCALE

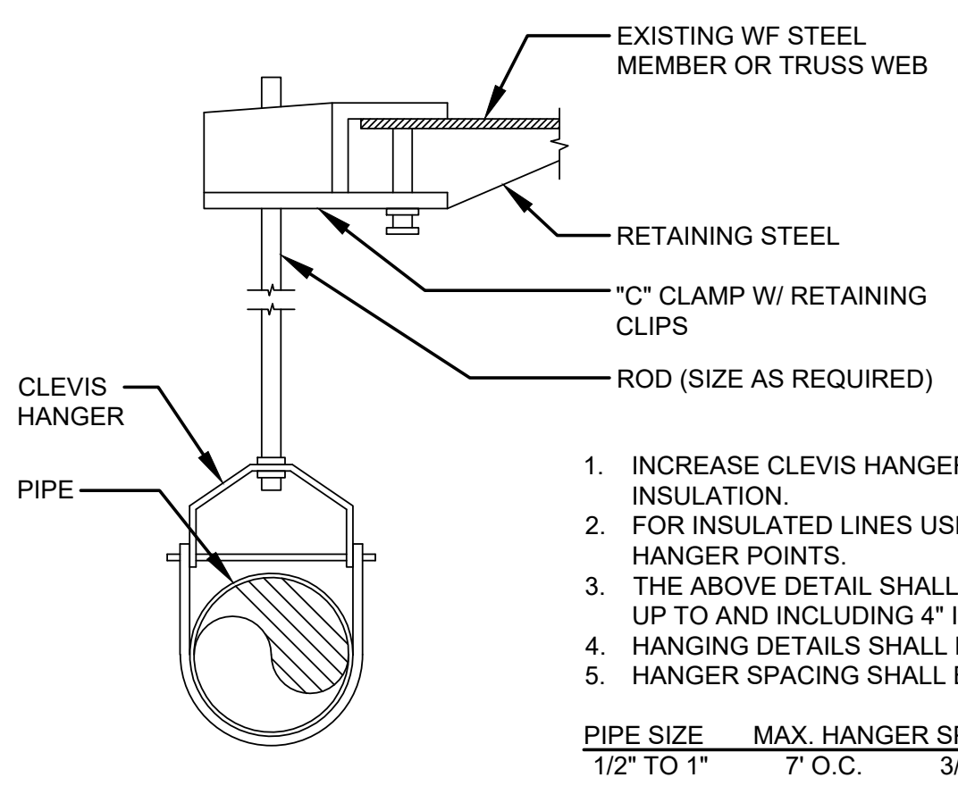


(CONCRETE AND FOUNDATION WALLS)

NOTE:
NO STRUCTURAL STRAIN SHOULD BE TRANSMITTED FROM ANY WALL TO THE PIPING SYSTEM. THE SLEEVING, RELIEVING ARCH, OR STRUCTURAL BEAM SUPPORT METHODS PROTECT THE PIPING FROM SUPERIMPOSED LOADS THE "PACKING" MATERIAL AROUND THE PIPE IS FLEXIBLE ENOUGH TO RESPOND TO SETTLING IN THE STRUCTURE OR PIPING

WATERTIGHT PIPE SLEEVE DETAIL

NOT TO SCALE


EXISTING WF STEEL MEMBER OR TRUSS WEB
RETAINING STEEL
"C" CLAMP W/ RETAINING CLIPS
ROD (SIZE AS REQUIRED)
CLEVIS HANGER
PIPE

1. INCREASE CLEVIS HANGER SIZE TO ALLOW FOR INSULATION.
2. FOR INSULATED LINES USE STEEL PIPE SHIELDS AT HANGER POINTS.
3. THE ABOVE DETAIL SHALL BE USED ONLY FOR LINES UP TO AND INCLUDING 4" IN SIZE.
4. HANGING DETAILS SHALL BE SUBMITTED FOR REVIEW.
5. HANGER SPACING SHALL BE AS FOLLOWS:

PIPE SIZE	MAX. HANGER SPACING	MIN. ROD SIZE
1/2" TO 1"	7' O.C.	3/8"
1-1/4" TO 2"	9' O.C.	1/2"
2-1/2" TO 4"	10' O.C.	1/2"

6. REPAIR OF FIRE PROOFING AT REMOVED AND NEW SUPPORT CONNECTIONS.

TYPICAL HANGER DETAIL

NOT TO SCALE

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Project Owner Name
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Drawing Name
FIRE PROTECTION SYMBOLS, NOTES, ABBREVIATIONS, NOTES, & DETAILS

Revisions

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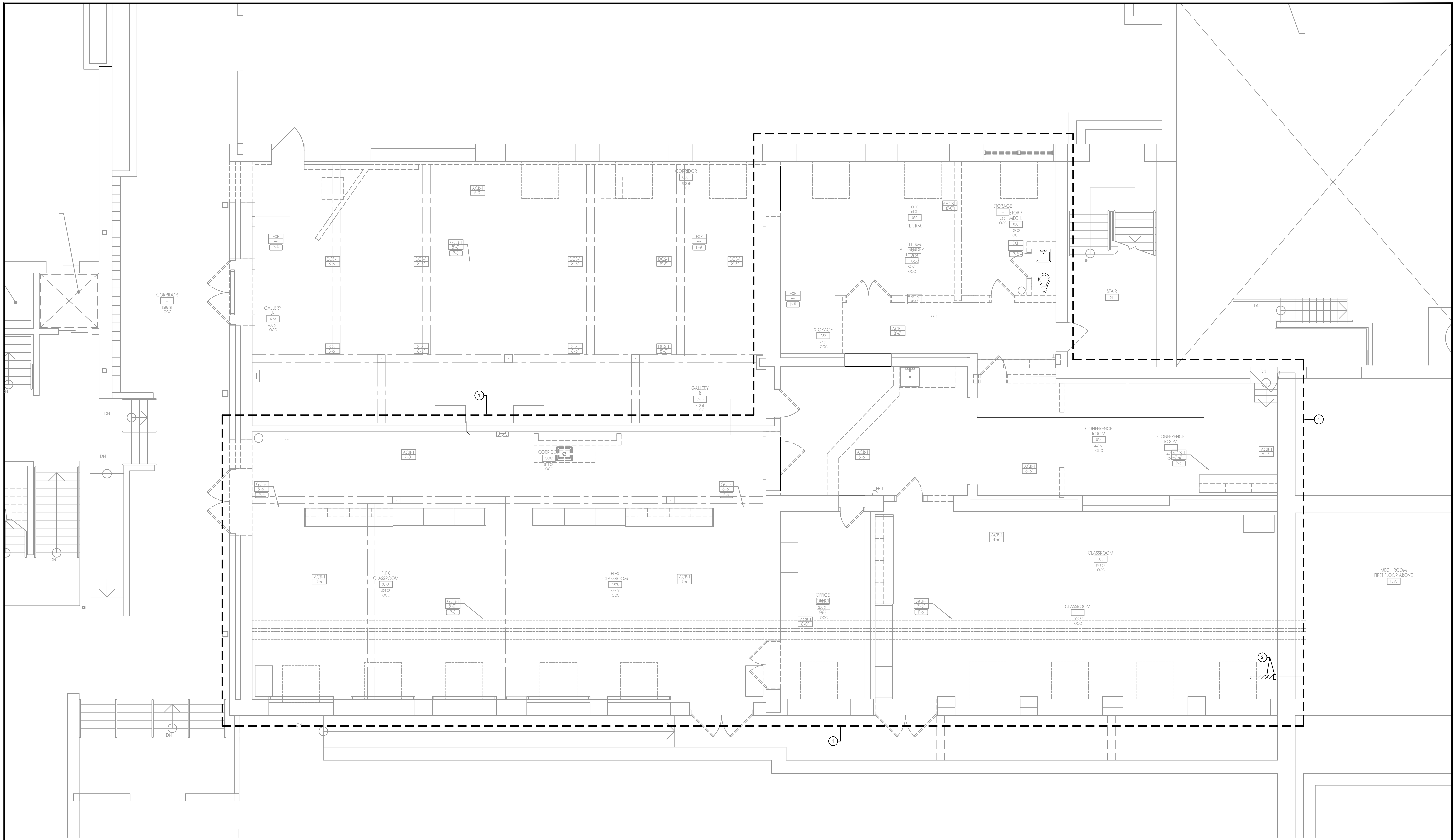


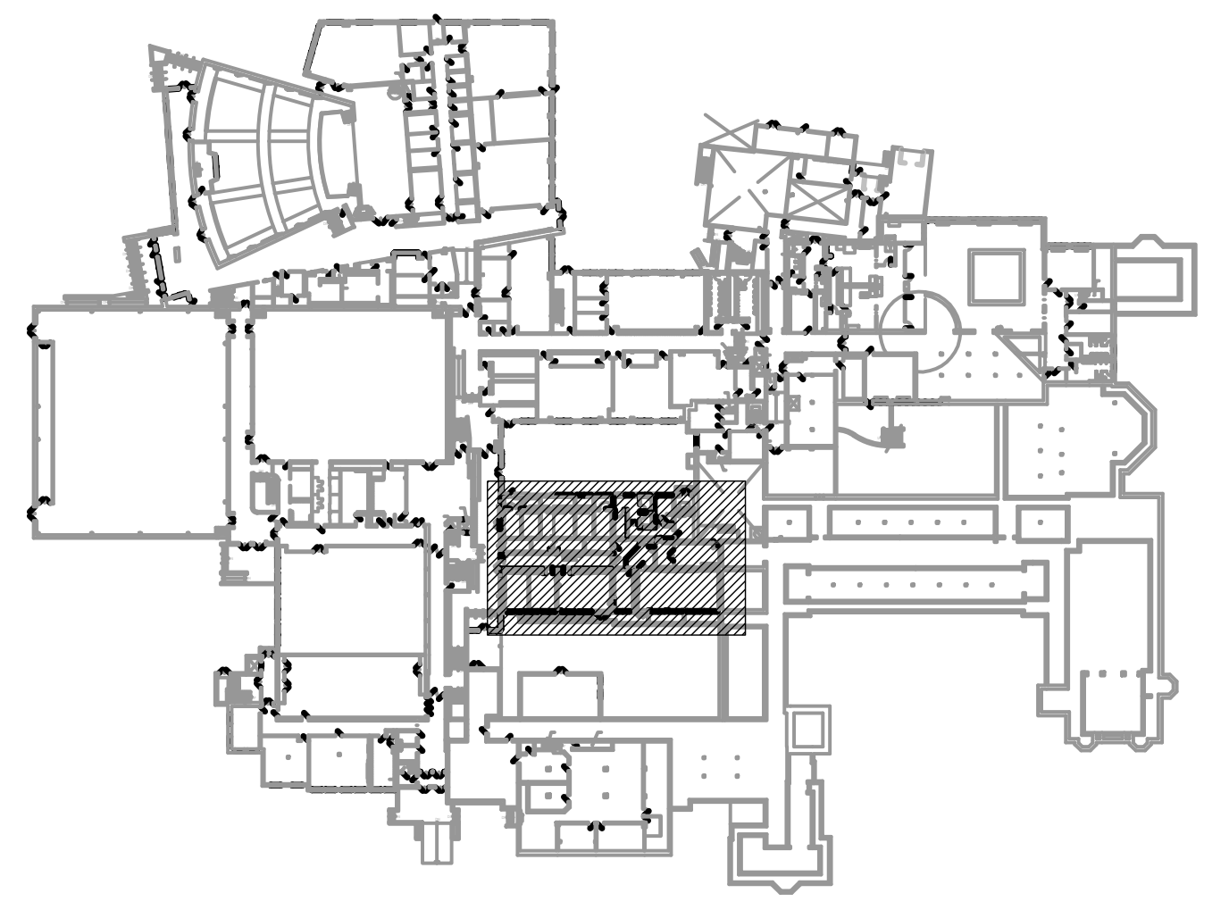
DEMOLITION PART PLAN

SCALE: 1/4" = 1'-0"

DEMOLITION KEY NOTES

① REMOVE EXISTING SPRINKLER HEADS AND SPRINKLER PIPING AND RELATED HANGERS IN THIS AREA IN ITS' ENTIRETY BACK TO EXISTING RISER. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.

② EXISTING 4" SPRINKLER RISER SERVING THIS AREA. FIELD VERIFY EXACT LOCATION AND SIZE. REMOVE EXISTING SHUT OFF VALVE AND FLOW SWITCH AND RISER AND CUT BACK HORIZONTAL PIPING BACK TIGHT TO WALL AS CLOSE AS PRACTICAL AND TEMPORARILY CAP AND MAKE READY FOR EXTENSION TO NEW PIPING. SEE NEW WORK PLAN. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.



KEY PLAN - GROUND FLOOR

NOT TO SCALE

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FIRE PROTECTION DEMOLITION PART PLAN

Revisions

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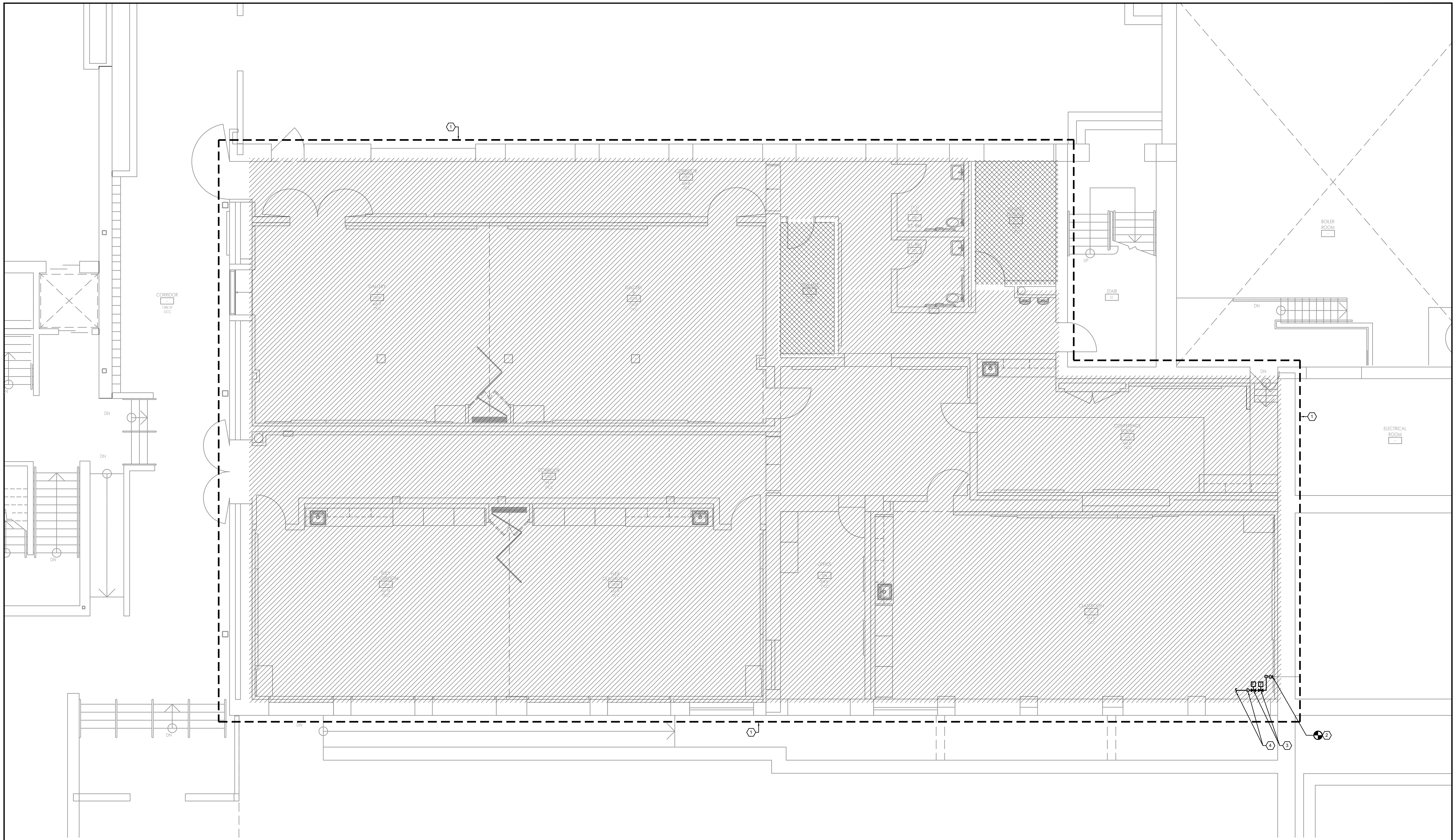


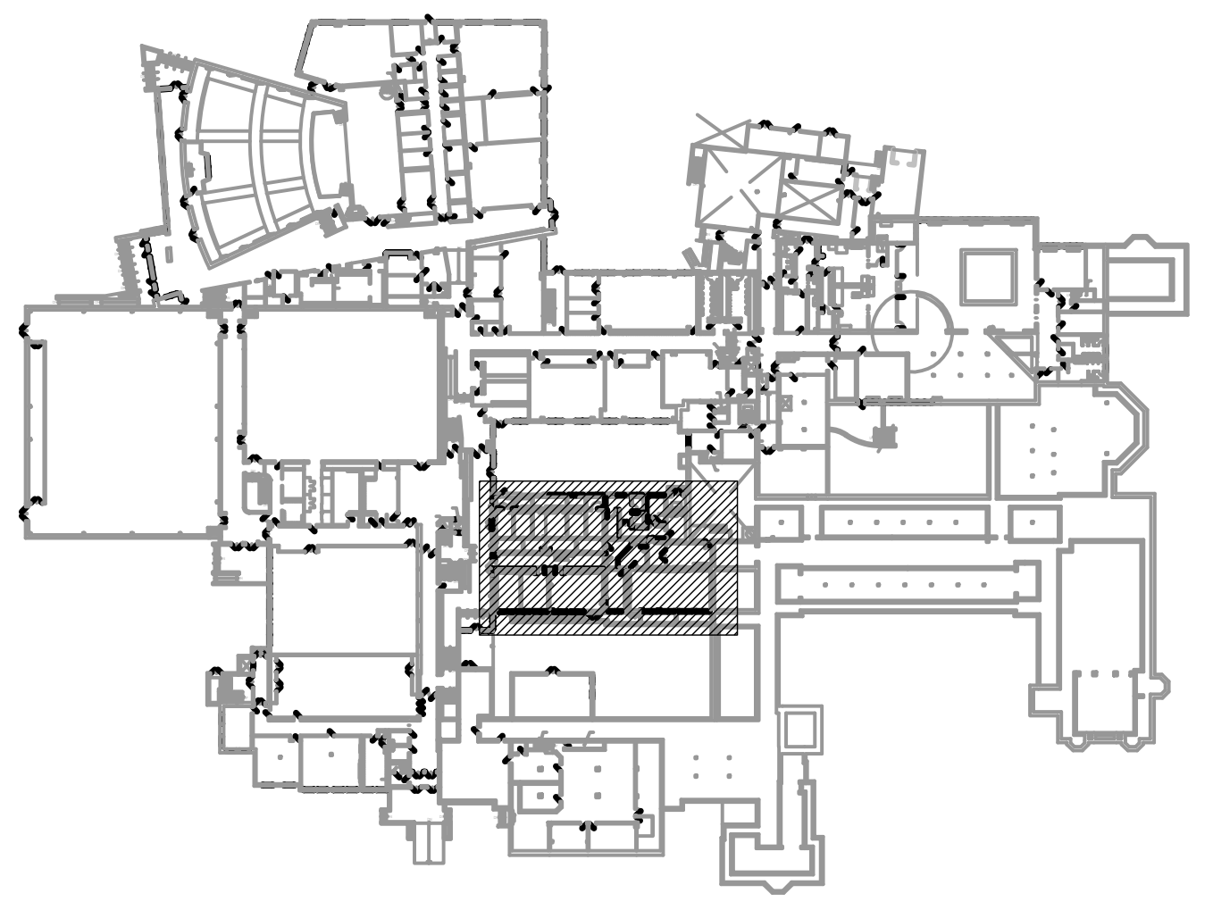
NEW WORK PART PLAN

SCALE: 1/4" = 1'-0"

SYMBOL	SPRINKLER DESIGN CRITERIA
▨	HAZARD CLASSIFICATION : LIGHT
	SPACES : CLASSROOMS, TOILET ROOMS, CORRIDORS, CONF. ROOMS, OFFICES DENSITY : 0.10 GPM PER SQ FT, GALLERIES DESIGN AREA : 1500 SQ FT MAX AREA PER SPRINKLER : 200 SQ FT INSIDE AND OUTSIDE HOSE STREAM ALLOWANCE : 100 GPM SPRINKLER TYPE : CONCEALED, QUICK RESPONSE
▩	HAZARD CLASSIFICATION : ORDINARY GROUP 1
	SPACES : MECHANICAL/ELECTRICAL ROOMS, STORAGE ROOMS DENSITY : 0.15 GPM PER SQ FT DESIGN AREA : 1500 SQ FT MAX AREA PER SPRINKLER : 130 SQ FT INSIDE AND OUTSIDE HOSE STREAM ALLOWANCE : 250 GPM SPRINKLER TYPE : UPRIGHT, QUICK RESPONSE

KEY NOTES

1. CONNECT TO EXISTING 4" SPRINKLER RISER SERVING THIS AREA AND EXTEND NEW PIPING WITH NEW SPRINKLER HEADS IN THIS ENTIRE AREA TO ACCOMMODATE NEW ROOM LAYOUTS, CEILING LAYOUTS, DUCTWORK, CEILING HEIGHTS, SOFFITS, DIFFUSERS, LIGHTS, CEILING CLOUDS, AND EXIT SIGNS. EXTEND, OFFSET, MODIFY AND ADJUST EXISTING SPRINKLER RISER AS REQUIRED TO MAKE NEW CONNECTION. PROVIDE A NEW SPRINKLER HEAD SYSTEM LAYOUT AS PER NFPA #13 REQUIREMENTS. (REFER TO ALL ARCHITECTURAL CEILING LAYOUT AND DEMOLITION DRAWINGS AND MECHANICAL DRAWINGS FOR AN EXACT SCOPE OF WORK). NEW SPRINKLER HEADS SHALL BE LOCATED IN CENTER OF TILE.
2. CONNECT TO EXISTING 4" SPRINKLER PIPING AT WALL. RISE UP TIGHT TO WALL TO CEILING. MODIFY EXISTING PIPING AS REQUIRED TO MAKE CONNECTION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING.
3. PROVIDE NEW SHUT OFF VALVE WITH BUILT IN TAMPER SWITCH AND A NEW FLOW SWITCH. INSTALL AS HIGH AS PRACTICAL AT CEILING IN HORIZONTAL PIPING. INSTALL VALVE AND FLOW SWITCH SO THAT THEY ARE POSITIONED WITH INDICATING FEATURES VISIBLE FROM THE FLOOR.
4. PENETRATE CEILING AND EXTEND PIPING ABOVE CEILING TO NEW SPRINKLER SYSTEM PER KEY NOTE 1. PROVIDE CHROME PLATED BRASS PIPE ESCUTCHEON AT CEILING PENETRATION.



KEY PLAN - GROUND FLOOR

NOT TO SCALE

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FIRE PROTECTION NEW WORK PART PLAN

Revisions

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FP3.0

MECHANICAL LEGEND

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
━━━	NEW DUCT OR PIPE	⟨X⟩	KEY NOTE DESIGNATION
───	EXISTING DUCT OR PIPE	X X	TOP: EQUIPMENT DESIGNATION BOTTOM: UNIT NUMBER (E-SIGNIFIES EXISTING)
/////	TO BE REMOVED	—CW—	COLD WATER PIPING
〰〰	FLEX TO DIFFUSER (5'-0" MAXIMUM)	—HWS—	HOT WATER SUPPLY PIPING
R →	RISE IN DUCT	—HWR—	HOT WATER RETURN PIPING
D →	DROP IN DUCT	—LPS—	LOW PRESSURE STEAM PIPING
—╫— FC	FLEXIBLE DUCT CONNECTION	—LPC—	LOW PRESSURE CONDENSATE PIPING
☒	CEILING DIFFUSER 4 WAY BLOW	—RS—	REFRIGERANT SUCTION PIPING
⊠	CEILING DIFFUSER 3 WAY BLOW	—RL—	REFRIGERANT LIQUID PIPING
⧗	CEILING DIFFUSER 2 WAY BLOW	—PC—	PUMPED CONDENSATE PIPING
■	CEILING DIFFUSER 1 WAY BLOW	—CD—	CONDENSATE DRAIN PIPING
⧄	RETURN OR EXHAUST REGISTER	—▶◀—	SHUT-OFF VALVE
VD ┌—	VOLUME DAMPER	—⊽—	BALANCE VALVE
FD ▷—	FIRE DAMPER AND ACCESS DOOR	—▷◁—	THROTTLING VALVE
M—	MOTOR OPERATED DAMPER	M —▶◀—	MOTOR OPERATED VALVE, THREE WAY
—U→	UNDERCUT DOOR	M —▶◀—	MOTOR OPERATED VALVE, TWO WAY
—L→	LOUVERED DOOR	—N—	CHECK VALVE
Ⓣ	THERMOSTAT	—▼—	GAS COCK
Ⓢ	SENSOR	—||—	UNION
Ⓗ	HUMIDISTAT	—⊻—	STRAINER WITH BLOWDOWN
⟨SD⟩	DUCT SMOKE DETECTOR	↗	RELIEF VALVE
(C2)	CO2 DETECTOR	⊘	PRESSURE GAUGE
◕	CONNECT TO EXISTING	▯	THERMOMETER
(GN)	NATURAL GAS DETECTOR	⊓⊓	AUTOMATIC FLOW CONTROL VALVE - B&G CIRCUIT SETTER OR EQUAL
(CN)	CO / NOX COMBINATION DETECTOR	▭☒	HVAC UNIT (SEE PLANS AND SCHEDULES) HVAC UNIT CLEARANCE
◐	POINT OF DISCONNECTION		

MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AD	ACCESS DOOR	MOD	MOTOR OPERATED DAMPER
ATC	AUTOMATIC TEMPERATURE CONTROLS	OA	OUTDOOR AIR
BDD	BACKDRAFT DAMPER	OAI	OUTDOOR AIR INTAKE
BMS	BUILDING MANAGEMENT SYSTEM	OC	ON CENTER
BOD	BOTTOM OF DUCT	OED	OPEN ENDED DUCT
BOP	BOTTOM OF PIPE	PC	PLUMBING CONTRACTOR
CD	CEILING DIFFUSER	RA	RETURN AIR
CO	CLEANOUT	RP	RADIANT PANEL
CFM	CUBIC FEET PER MINUTE	RR	RETURN GRILLE
D	DIAMETER	RR	RETURN REGISTER
E	EXISTING	SA	SUPPLY AIR
EA	EXHAUST AIR	SG	SUPPLY GRILLE
EC	ELECTRICAL CONTRACTOR	SR	SUPPLY REGISTER
EG	EXHAUST GRILLE	TD	TRANSFER DUCT
EG	EXHAUST REGISTER	TG	TRANSFER GRILLE
FO	FLAT OVAL	WMS	WIRE MESH SCREEN
IOM	INSTALLATION AND OPERATION MANUAL	WR	WALL REGISTER

APPLICABLE CODES:

ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST CODES AND SUBCODES AS ADOPTED BY THE STATE OF NEW JERSEY:

- NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC)
- REHABILITATION SUBCODE 5:23-6
- ADMINISTRATIVE CODE: TITLE 6
- 2021 INTERNATIONAL BUILDING CODE - NJ EDITION
- 2020 NATIONAL ELECTRICAL CODE
- 2021 NATIONAL STANDARD PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2019 ASHRAE 90.1 ENERGY CONSERVATION CODE
- 2019 NFPA 13
- REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION

MECHANICAL GENERAL NOTES:

1. DO NOT SCALE FROM THESE DRAWINGS.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE AND ADOPTED REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL MECHANICAL MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.

3. THE DRAWINGS HAVE BEEN PRODUCED ENTIRELY ON FPA CADD SYSTEM. ANY OTHER LETTERING, LINES OR SYMBOLS, OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE AUTHORIZATION OF FPA AND ARE INVALID.

4. REPRODUCTION OF ANY PORTION OF THE CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

5. UPON CONTRACT AWARD, CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANY TO SCHEDULE ANY UTILITY UPGRADES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL UTILITY UPGRADES, SECURE ALL PERMITS AND INSPECTIONS.

6. ALL CONNECTIONS TO EXISTING BUILDING SERVICES SHALL BE CAREFULLY COORDINATED WITH THE UTILITY CO AND THE OWNER'S SCHEDULE. SERVICE WORK OF THIS NATURE TO OCCUR DURING UNOCCUPIED BUILDING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EXISTING EQUIPMENT IS OPERATIONAL AFTER ANY SHUTDOWN OCCURS.

7. CHANGES OR SUBSTITUTIONS OF EQUIPMENT WILL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER. ALL COSTS RESULTING FROM THE SELECTION OF OTHER THAN SPECIFIED EQUIPMENT SHALL BE BORNE BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO WORK AFFECTING OTHER CONTRACTORS, THE OWNER, OR RE-DESIGN ISSUES.

8. ALL INDICATED WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.

9. DO NOT USE ANY PART OF THE OWNER'S BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES BY THE OWNER.

10. ALL CONTRACT WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE WRITTEN SPECIFICATIONS FOR THIS PROJECT WHICH ARE CONSIDERED TO BE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL MAINTAIN (AT THE JOB SITE) AND REFER TO COPIES OF THE WRITTEN SPECIFICATIONS AS PART OF THESE DRAWINGS. REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE. IN ALL CASES OF DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN AND WHERE IT IS UNCLEAR, SUCH CASES SHALL BE REFERRED TO THE ENGINEER FOR ADJUDICATION.

11. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED PLUMBING, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DECOR AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BID SUBMISSION.

12. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID FOR THE PROPOSED WORK. HE SHALL BE RESPONSIBLE TO VERIFY FIELD CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMISSION OF BIDS IN WRITING.

13. THE MECHANICAL CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED PLUMBING, ELECTRICAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, THE MECHANICAL CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.

14. THE MECHANICAL CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS PERTAINING TO THE HVAC SYSTEMS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL, PARTS, SUPPLIES AND LABOR TO BALANCE ALL HVAC EQUIPMENT TO OWNER'S SATISFACTION.

15. CONTRACTOR SHALL COORDINATE HIS SCHEDULING WITH THE OWNER AND GENERAL CONTRACTOR TO COMPLY WITH THE OWNERS USAGE OF THE BUILDING.

16. IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL REPORT THE DISCOVERY IMMEDIATELY TO THE OWNER. THE CONTRACTOR SHALL STOP ANY WORK THAT MAY DISTURB THE SUSPECTED HAZARDOUS MATERIAL. CONTRACTOR SHALL RESUME WORK AFTER ALL HAZARDOUS MATERIAL HAS BEEN REMEDIATED.

17. CONTRACTOR RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR OR REIMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE AND EQUIVALENCY. CONTRACTOR SHALL ADVISE OWNER FOR DISPOSITION OF REMOVED EQUIPMENT AND/OR MATERIALS.

18. CONTRACTOR'S WORK MAY BE REQUIRED OUTSIDE OF DESIGNATED SPACE. ALL SYSTEMS BEING DEMOLISHED AND REMOVED, MODIFIED, AND/OR TERMINATED SHALL BE FIELD VERIFIED TO INSURE NO WORK PERFORMED, INSIDE OR OUTSIDE OF THE DESIGNATED SPACE, SHALL DISRUPT ANY SERVICE OR SYSTEMS OF ANY OTHER AREAS. IF ANY CONDITIONS ARISE THAT ARE NOT IDENTIFIED ON DRAWINGS, IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE ENGINEER OR OWNER. NO WORK SHALL PROCEED WITHOUT APPROVALS FROM ENGINEER OR OWNER.

19. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY HAVE TO BE ADAPTED TO COMPLY WITH EXISTING BUILDING CONDITIONS. CONTRACTOR SHALL SUBMIT HVAC SHOP DRAWINGS, INDICATING LOCATIONS, AND ROUTING OF DUCTS, PIPING, AND WIRING.

20. DUCTING AND PIPING SHOWN ON DRAWINGS SHOW THE GENERAL RUN AND CONNECTIONS AND MAY OR MAY NOT IN ALL PARTS BE SHOWN IN ITS EXACT POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING THE DUCTING/PIPING SUITABLE IN EVERY RESPECT FOR THE WORK. DUCTWORK/PIPING SHALL BE INSTALLED SO THAT ACCESS, CLEARANCE, HEADROOM AND PITCH ARE MAINTAINED. CONTRACTORS OF THE VARIOUS TRADES SHALL COORDINATE THE INSTALLATION. MECHANICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR CHASE AND SOFFIT LOCATIONS TO COORDINATE ALL EXPOSED DUCTWORK & PIPE ROUTING.

21. ALL CONTRACTORS SHALL PROVIDE CUTTING AND PATCHING FOR THEIR RESPECTIVE TRADES.

22. REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK AND REPLACE IN KIND ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL, MATCH EXISTING ADJACENT SURFACES.

23. ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BEAR THE LABEL OF AN APPROVING AGENCY. LISTING AND LABELING AGENCY QUALIFICATIONS: A "NATIONALLY RECOGNIZED TESTING LABORATORY" AS DEFINED IN THE INTERNATIONAL MECHANICAL CODE, LATEST ADOPTED EDITION.

24. ALL PENETRATIONS THRU FIRE RATED WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH A UL APPROVED FIRESTOP MATERIAL SUITABLE FOR CONSTRUCTION MATERIAL TO MAINTAIN FIRE, SMOKE, AND DRAFT INTEGRITY OF STRUCTURE. FIRE RESISTANT SEALER SHALL BE TESTED IN ACCORDANCE WITH ASTM E84. INSTALL SEALANT, INCLUDING FOAMING, PACKING AND OTHER ACCESSORY MATERIALS TO FILL OPENINGS WHERE FIRE-RATED WALL PENETRATIONS OCCUR. COMPLY WITH INSTALLATION REQUIREMENTS ESTABLISHED BY TESTERS AND INSPECTION AGENCY.

25. ALL CONTRACTORS REMOVING OR RELOCATING ANY EQUIPMENT, PIPES, DUCTS, CONDUITS, ETC SHALL PATCH ALL SURFACES DISTURBED BY THIS WORK TO MATCH ADJACENT SURFACES.

26. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING, DISPOSAL & ASSOCIATED COSTS OF ALL REFRIGERANT MATERIAL, DURING THIS CONTRACT, IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND/OR REGULATIONS.

26. THE MECHANICAL CONTRACTOR SHALL MOUNT THE DUCT SMOKE DETECTOR. THE ELECTRICAL CONTRACTOR TO PROVIDE AND WIRE DUCT MOUNTED SMOKE DETECTOR. ELECTRIC CONTRACTOR SHALL ALSO PROVIDE AND WIRE A REMOTE MONITORING KEY OPERATED TEST AND ALARM STATION FOR EACH DUCT SMOKE DETECTOR. THE REMOTE TEST ALARM STATION SHALL BE MOUNTED AS DIRECTED IN THE AREA OF THE SMOKE DETECTOR.

27. THE MECHANICAL CONTRACTOR TO PROVIDE ALL ROOF CURBS, EQUIPMENT RAILS, SUPPORTS, ROOF PORTALS, AND ASSOCIATED EQUIPMENT TO ENSURE A COMPLETE INSTALLATION FOR NEW HVAC EQUIPMENT. MECHANICAL CONTRACTOR RESPONSIBLE TO PROVIDE EXACT LOCATIONS AND REVIEW AND RELEASED EQUIPMENT SUBMITTALS, OF ROOF CURBS, EQUIPMENT SUPPORTS, ROOF PORTALS, AND ASSOCIATED EQUIPMENT TO THE ARCHITECT. ALL ROOF PENETRATIONS, EQUIPMENT SUPPORTS, ROOF PORTALS AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY ROOFING SUB-CONTRACTOR. ROOFING CONTRACTOR SHALL BE BONDED AND ALL WORK SHALL BE DONE SO AS NOT TO VOID ROOF WARRANTY. ROOFING CONTRACTOR SHALL PROVIDE BASE FLASHING, AND PROVIDE TEMPORARY WEATHER-PROOF COVERS UNTIL MECHANICAL CONTRACTOR INSTALLS NEW HVAC UNITS. MECHANICAL CONTRACTOR TO PROVIDE COUNTER FLASHING.

28. FURNISH TO THE ELECTRICAL CONTRACTOR ALL MOTOR STARTERS AND CONTROL DEVICES FOR MECHANICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE STARTER AND CONTROL EQUIPMENT FOR ALL MOTORS. CONTRACTOR SHALL ENGAGE CONTROL VENDOR AND EQUIPMENT MANUFACTURERS CONTROLS TECHNICIAN TO PROVIDE ACCESS AND INTEGRATION OF ALL AVAILABLE CONTROLS POINTS INTO THE BUILDING MANAGEMENT SYSTEM.

29. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL CONTROLLERS, ACTUATORS, TRANSFORMERS, SENSORS, RELAYS, CONTACTS, PANELS, CONDUIT, WIRING, ETC AS REQUIRED TO ACHIEVE SPECIFIED CONTROL SEQUENCE. WHERE LOCATING DEVICES ON EXISTING SURFACES, IF RECESSED WIRING CANNOT BE ACCOMMODATED (I.E. PRECAST, PRE-FAB PANELS, ETC.) INCLUDE WIRE MOLD AS NECESSARY TO PROVIDE CONCEALED INSTALLATION. CONNECT TO EXISTING CM3 BUILDING SOLUTION HONEYWELL SPIDER BUILDING CONTROL SYSTEM; BMS CONTROL VENDOR: PETE GREGORY CM3 BUILDING SOLUTION (PHONE: 215-322-8400); HONEYWELL NIAGARA 4 PLATFORM BUILDING SOLUTIONS AUTOMATION SYSTEM, AND PROVIDE CONTROLLABILITY OF ALL MECHANICAL EQUIPMENT WITH ASSOCIATED GRAPHICS AND PROVIDE SECURE REMOTE WEB ACCESS FOR SETPOINTS AND SCHEDULING ADJUSTMENT FOR OCCUPIED AND UNOCCUPIED MODES OF HEATING AND COOLING. CONTRACTOR SHALL ENGAGE CONTROL VENDOR AND EQUIPMENT MANUFACTURERS CONTROL TECHNICIAN TO PROVIDE ACCESS AND INTEGRATION OF ALL AVAILABLE EQUIPMENT CONTROL POINTS.

30. ALL HVAC EQUIPMENT CONTAINING COOLING (EVAPORATOR) COILS SHALL HAVE CONDENSATE MONITORING FOR OVERFLOW PROTECTION FOR PRIMARY OR SECONDARY DRAIN PANS AS APPLICABLE. SUCH DEVICES SHALL BE LABELED TO COMPLY WITH UL #508, AND SHALL SHUT DOWN COOLING SYSTEM AND SIGNAL BMS SYSTEM IF APPLICABLE.

31. ALL FAN POWERED HEATING OR COOLING AIR SYSTEMS SHALL INCLUDE ACCESSIBLE RETURN AIR FILTRATION TO PROTECT FAN COMPONENTS. MINIMUM MERV-13 PLEATED FILTERS TYPICAL.

32. ALL SPACE SENSORS; IE. TEMPERATURE, CARBON DIOXIDE, HUMIDITY, ETC., SHALL BE MOUNTED AT 48" AFF TO MEET ADA REQUIREMENTS. COORDINATE THE LOCATION OF THERMOSTAT WITH OTHER TRADE.

    PROVIDE TAMPER PROOF COVERS FOR ALL TEMPERATURE SENSORS. PROVIDE TG500 SERIES VENTED GUARD, CLEAR; OR ENGINEER APPROVED EQUAL, ON ALL TEMPERATURE SENSORS. AVAILABLE FROM WWW.KELE.COM, 888-397-5353.

    PROVIDE WIRE GUARD COVERS ON ALL SPACE SENSORS. BASIS-OF-DESIGN AMERICAN TIME INTEGRATED SOLUTIONS; OR ENGINEERED APPROVED EQUAL. AVAILABLE FROM WWW.AMERICAN-TIME.COM, 800-328-8996.

33. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS OR SOFFITS WITH OTHER PLUMBING/ ELECTRICAL FEEDS. MECHANICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR CHASE & SOFFIT LOCATIONS TO COORDINATE ALL EXPOSED PIPING ROUTING. PROVIDE PIPE ENCLOSURE FOR ALL EXPOSED PIPING LOCATED OUTSIDE THE MECHANICAL ROOM. ALL SUCH LOCATIONS SHALL BE REVIEWED WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. PROVIDE MINIMUM 2 COATS MARINE GRADE EPOXY PRIMER AND 2 COATS OF INTERIOR/EXTERIOR GRADE PAINT. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

34. ALL PIPING SHALL BE ORGANIZED NEATLY AND KEPT TIGHT TO WALLS AND CEILINGS.

35. FURNISH AND INSTALL PIPE SLEEVES OR SLEEVE SEAL SYSTEMS AS REQUIRED. SEE SPECIFICATION FOR DETAILS.

36. GRAVITY CONDENSATE PIPING SHALL BE PITCHED MINIMUM 1/8" PER FOOT.

40. ALL CONDENSATE DRAIN PIPING CONNECTION TO CONDENSATE DRAIN RISERS SHALL BE PROVIDED WITH WYE TYPE FITTINGS.

41. ALL DUCTWORK SHALL BE CONNECTED TO MOTORIZED EQUIPMENT WITH FLEXIBLE DUCT CONNECTORS.

42. ALL RIGID DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL. FABRICATION OF DUCTWORK AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS AND RECOMMENDATIONS.

43. ALL DUCTWORK SIZES SHOWN ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS.

44. ALL INTERIOR DUCTWORK SHALL HAVE DUCT LINER. SEE SPECIFICATION FOR DETAILS.

45. ALL INTERIOR DUCTWORK EXPOSED WITHIN FINISHED SPACES SHALL BE FACTORY FABRICATED DOUBLE WALLED SPIRAL SEAM WITH INTERSTITIAL INSULATION. SEE SPECIFICATION FOR DETAILS. ALL EXPOSED DUCTWORK SHALL HAVE STICKERS AND LABELS REMOVE AND PREPARED FOR PAINT. PAINT ALL EXPOSED INDOOR DUCTWORK, REGISTERS/DIFFUSERS, HANGER AND SUPPORTS. PROVIDE MINIMUM 2 COATS PRIMER AND 2 COATS OF INTERIOR GRADE PAINT. COORDINATE WITH ARCHITECT FOR COLOR SELECTION.

46. ALL INTERIOR DUCTWORK CONCEALED OR EXPOSED IN NON-FINISHED AREA, EG ATTIC, ABOVE CEILING, ETC. SHALL BE SINGLE WALLED SPIRAL SEAM EXTERNALLY INSULATED WITH FLEXIBLE DUCTWRAP AND VAPOR BARRIER. SEE SPECIFICATIONS FOR DETAILS.

47. ALL FLEXIBLE DUCTWORK SHALL BE CLASS I, LABELED UL 181. SEE SPECIFICATIONS FOR DETAILS. FLEXIBLE DUCTWORK SHALL NOT BE ACCEPTABLE FOR NEGATIVE PRESSURE APPLICATIONS. FLEXIBLE DUCTWORK SHALL NOT BE ACCEPTABLE FOR NEGATIVE PRESSURE APPLICATION. FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0".

48. ALL EXTERIOR DUCTWORK SHALL HAVE DUCT LINER AND EXTERNAL RIGID INSULATION AND BE COVERED WITH SELF ADHERING PREFABRICATED PROTECTIVE MEMBRANE THAT IS UV AND OZONE RESISTANT. THIS JACKETING SHALL BE FIELD APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEE SPECIFICATION FOR DETAILS.

49. DURING THE INSTALLATION OF MECHANICAL EQUIPMENT AND ASSOCIATED SYSTEMS, THE CONTRACTOR SHALL IDENTIFY ANY DAMAGE TO FIREPROOFING MATERIAL CAUSED BY WORK OF THE TRADE. THE CONTRACTOR SHALL PROVIDE WRITTEN REPORT DESIGNATION LOCATIONS, TO GENERAL CONTRACTOR, BEFORE FIREPROOFING IS COVERED BY SUBSEQUENT CONSTRUCTION.

50. THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT, DUCTWORK, PIPING AND ACCESS DOORS. THESE PLANS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.

51. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE SHALL BE LOCATED AT A MINIMUM OF 10'-0" FROM ROOF'S EDGE. GUARDS SHALL BE PROVIDED FOR EQUIPMENT LOCATED WITHIN 10'-0" OF ROOF EDGE. THE GUARDS SHALL BE NOT LESS THAN 42 INCHES IN HEIGHT AND SHALL EXTEND NOT LESS THAN 10'-0" BEYOND EACH END COMPONENT OF EQUIPMENT THAT REQUIRES SERVICE.

52. AFTER COMPLETING SYSTEM INSTALLATION, TESTING, ADJUSTING, AND BALANCING UNIT AND AIR-DISTRIBUTION SYSTEMS, CLEAN FILTER HOUSINGS AND PROVIDE NEW FILTERS FOR ALL HVAC EQUIPMENT. EQUIPMENT THAT REQUIRE FILTER CHANGE INCLUDE BUT NOT LIMITED TO: PACKAGED ROOF TOP UNITS, ENERGY RECOVERY UNITS, ENERGY RECOVERY VENTILATORS, DUCTED INDOOR HEAT PUMPS, FAN COIL UNITS, CASSETTE TYPE HEAT PUMPS, AIR HANDLING UNITS, UNIT VENTILATORS AND FAN POWERED VARIABLE AIR VOLUME TERMINAL UNITS.

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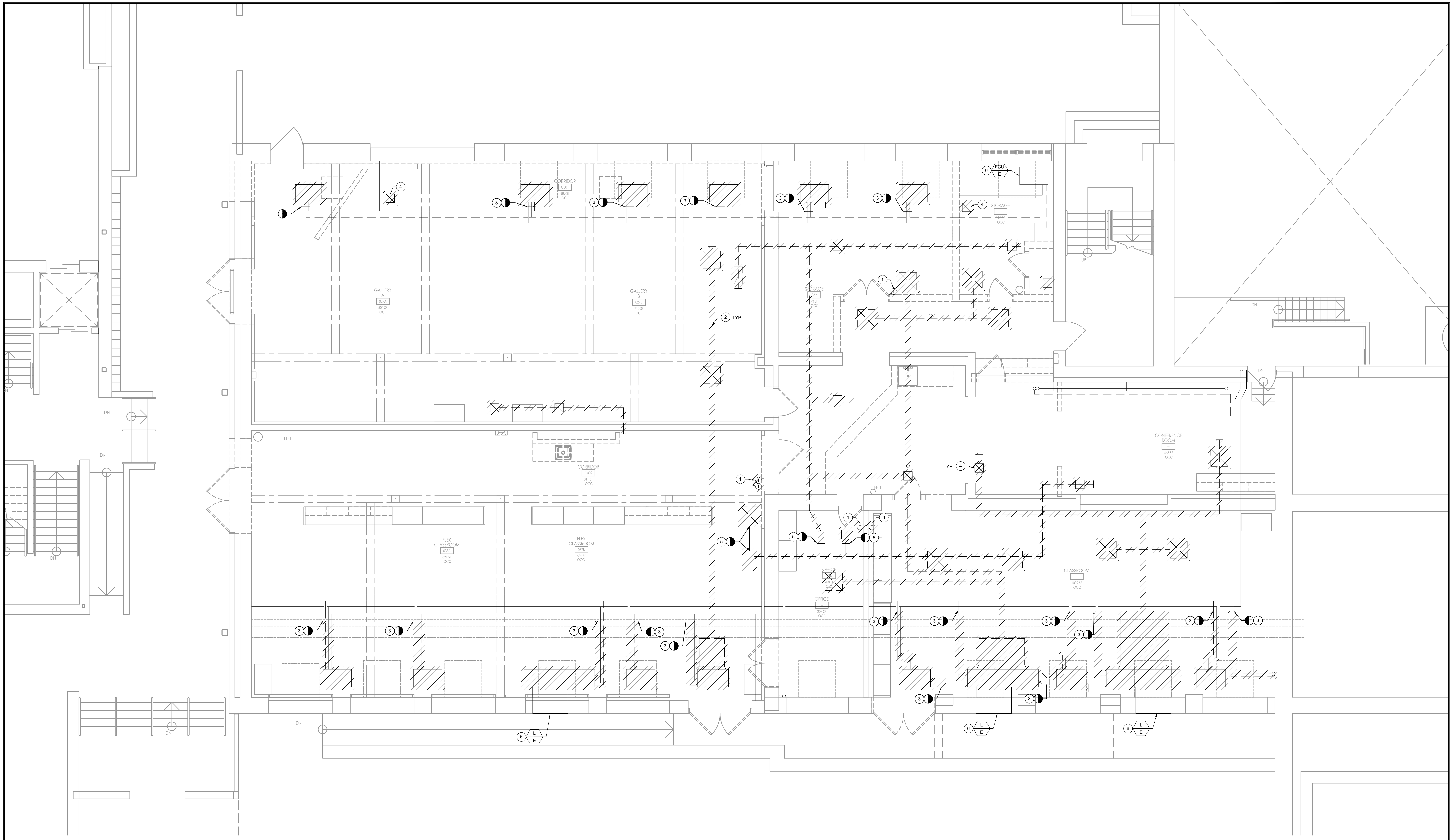
Project Name	Renovations to Princeton High School
Project Owner Name	Princeton Public Schools
Project Location	151 Moore Street, Princeton, NJ 08540
Project Number	5516A2
Project Date	02.06.2026
Checked By	TK
Drawn By	ST
Scale	AS NOTED
Drawing Name	MECHANICAL SYMBOLS, NOTES, & ABBREVIATIONS

Revisions

No.	Date	Description

Drawing Number

M1.0

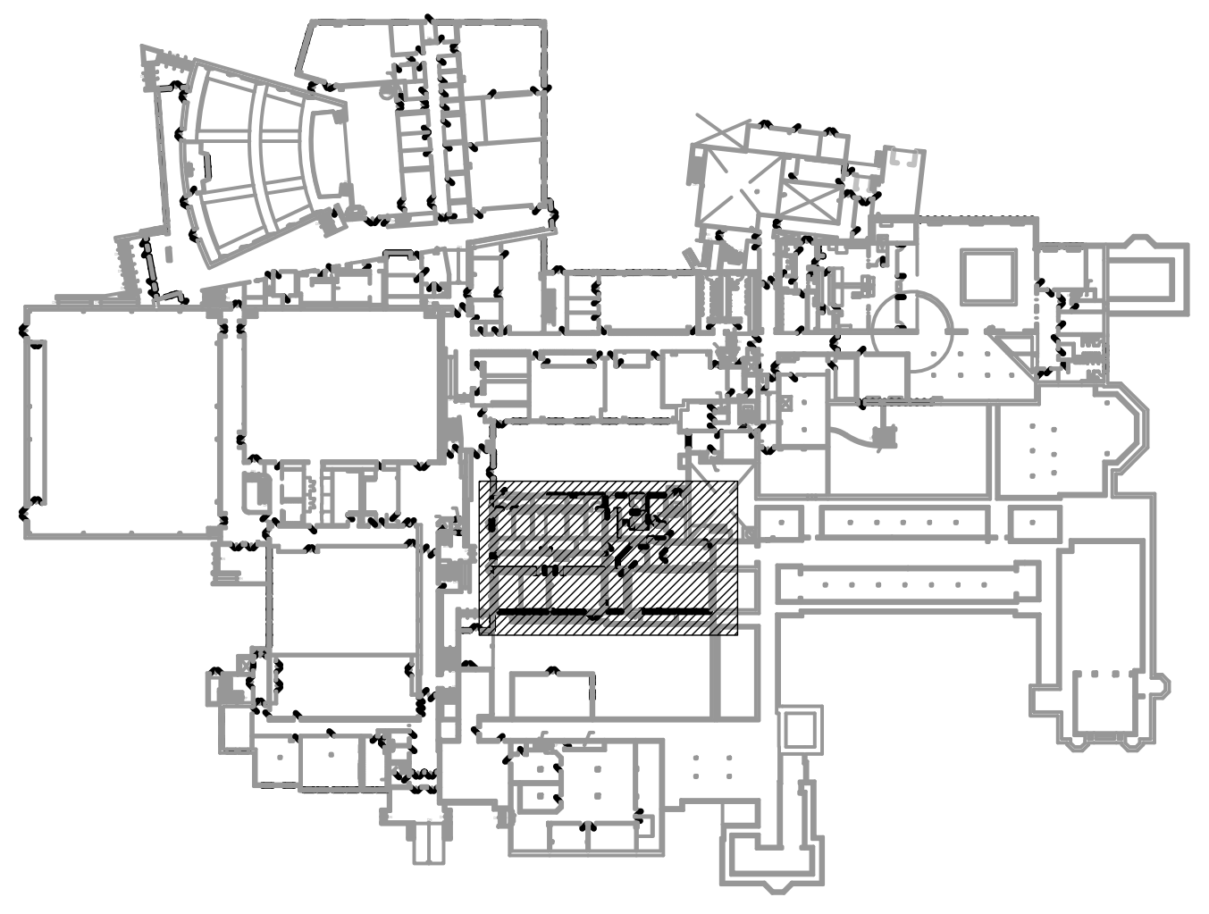


GROUND FLOOR DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE AND DISCARD EXISTING UNIT, THERMOSTAT, SUPPORTS AND ALL ASSOCIATED ACCESSORIES. REMOVE PIPING BACK TO RESPECTIVE MAINS AND CAP. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
2. REMOVE AND DISCARD EXISTING UNIT, DUCTWORK, DAMPERS, REGISTERS/DIFFUSERS, SUPPORTS AND ALL ASSOCIATED ACCESSORIES. EXISTING OA LOUVER, INSULATED BACK PANEL AND THERMOSTAT TO REMAIN. PROVIDE TEMPORARY WEATHERPROOFING AT EXISTING OPENING IN PANEL. MAKE PIPING READY FOR CONNECTION TO NEW UNIT. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
3. REMOVE AND DISCARD EXISTING HWS/R AND CONDENSATE PIPING, VALVES, SUPPORTS AND ALL ASSOCIATED ACCESSORIES BACK TO RESPECTIVE MAINS AND CAP SUPPLY AND ASSOCIATED RETURN PIPING. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
4. REMOVE AND DISCARD EXISTING EXHAUST FAN, DUCTWORK, DAMPERS, REGISTERS/DIFFUSERS, SUPPORTS AND ALL ASSOCIATED ACCESSORIES. COORDINATE INFILL WITH ARCHITECTURAL PLANS. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
5. REMOVE AND DISCARD THAT PORTION OF EXISTING DUCTWORK INCLUDING DAMPERS, SUPPORTS AND ALL ASSOCIATED ACCESSORIES AS SHOWN. SEAL REMAINING DUCTWORK AIRTIGHT. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
6. EXISTING TO REMAIN



KEY PLAN - GROUND FLOOR

NOT TO SCALE

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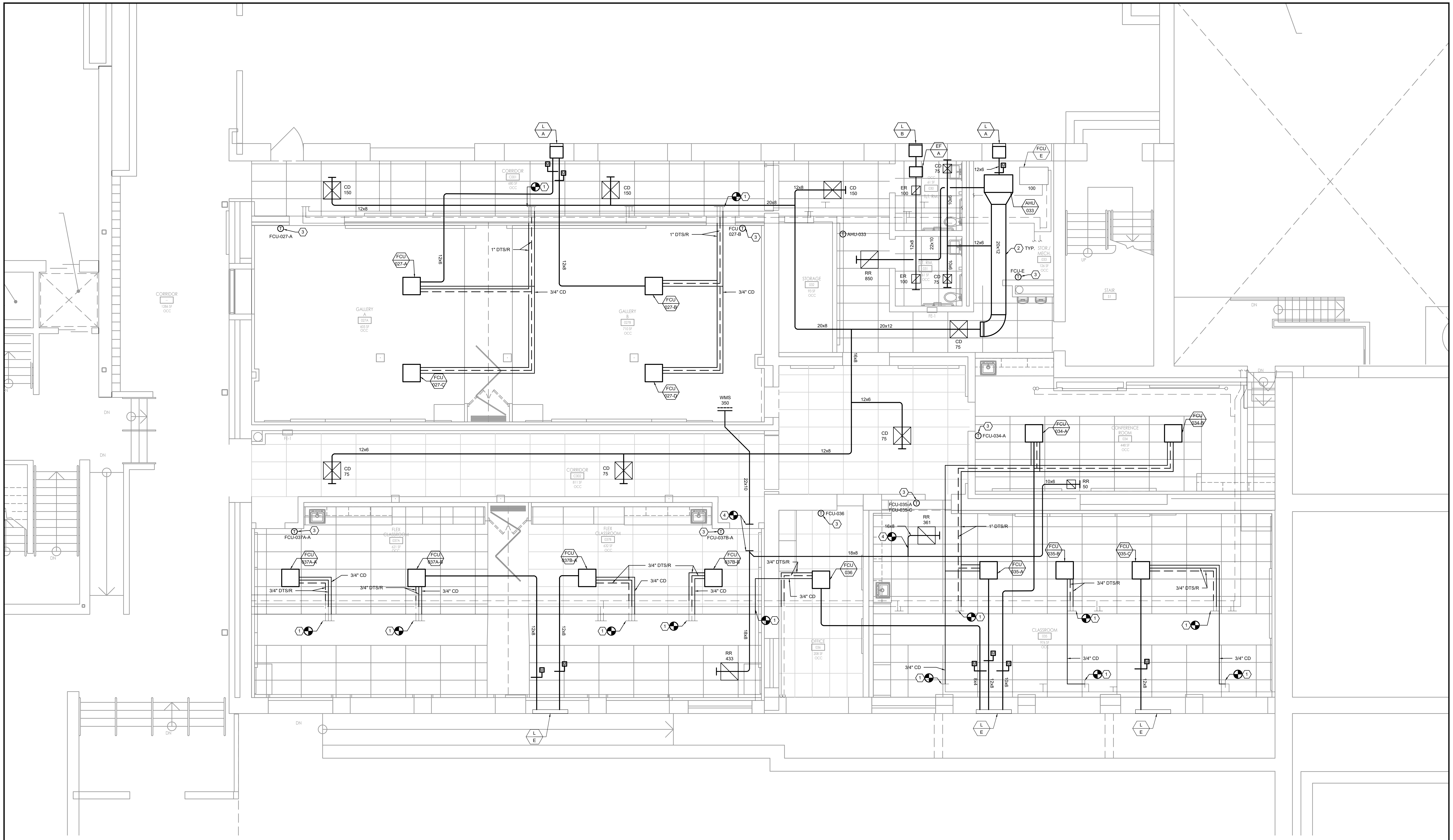
Project Owner Name	Princeton Public Schools
Project Location	151 Moore Street, Princeton, NJ 08540
Project Number	5516A2
Project Date	02.06.2026
Checked By	TK
Drawn By	ST
Scale	AS NOTED
Drawing Name	MECHANICAL GROUND FLOOR DEMOLITION PLAN

Revisions

No.	Date	Description

Drawing Number

M2.0

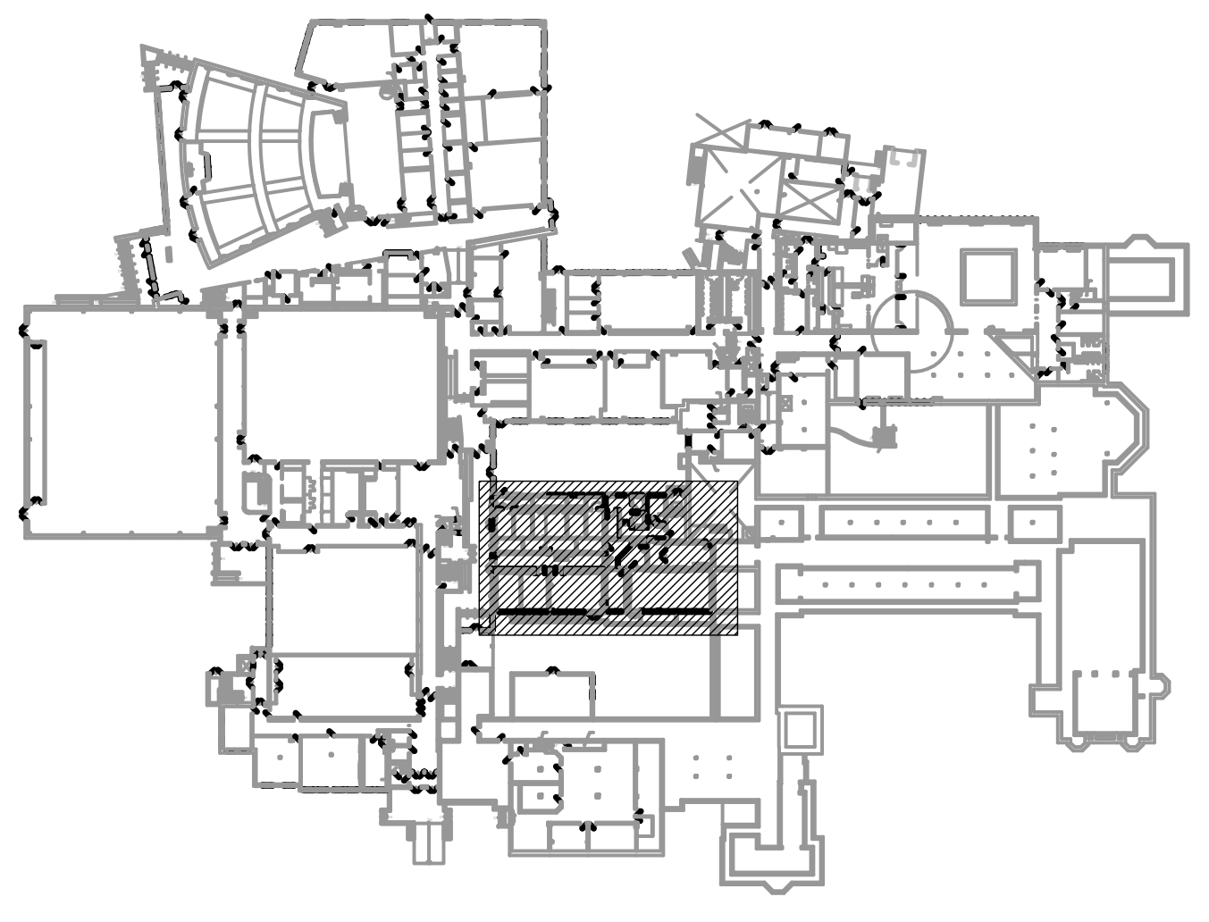


GROUND FLOOR NEW WORK PLAN

SCALE: 1/4" = 1'-0"

KEY NOTES

1. CONNECT NEW HWS/R (1" HWS/R) AND CONDENSATE (3/4" CONDENSATE) TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING. VALVING NOT SHOWN FOR CLARITY. SEE PIPING DETAILS FOR ADDITIONAL INFORMATION.
2. ALL INDOOR DUCT SHALL HAVE STICKERS AND LABELS REMOVE AND PREPARED FOR PAINT. PAINT ALL EXPOSED INDOOR DUCTWORK, REGISTERS/DIFFUSERS, HANGER AND SUPPORTS. PROVIDE MINIMUM 2 COATS PRIMER AND 2 COATS OF INTERIOR GRADE PAINT. COORDINATE WITH ARCHITECT FOR COLOR SELECTION.
3. ONE THERMOSTAT SHALL CONTROL ALL THE FAN COIL UNITS WITHIN THE ROOM.
4. CONNECT TO EXISTING DUCTWORK. PROVIDE TRANSITIONS AS REQUIRED TO MAKE CONNECTION. CONTRACTOR TO SEAL DUCTWORK AIRTIGHT.



KEY PLAN - GROUND FLOOR

NOT TO SCALE

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NJ - 21AI01979800 | PA - RA406009
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BD+C
NJ - 21AI02003100 | PA - RA410435

William D. Hopkins
Architect
2/06/26
Date

EST 1918
FVHD architects planners
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F V H D P C . C O M

Project Name	Renovations to Princeton High School
Project Owner Name	Princeton Public Schools
Project Location	151 Moore Street, Princeton, NJ 08540
Project Number	5516A2
Project Date	02.06.2026
Checked By	TK
Drawn By	ST
Scale	AS NOTED
Drawing Name	MECHANICAL GROUND FLOOR NEW WORK PLAN

Revisions

No.	Date	Description

Drawing Number

M3.0

AIR HANDLING UNIT SCHEDULE

AHU X

PLAN NO.	MANUFACTURER MODEL	LOCATION	AREA SERVED	MIN OA CFM	SUPPLY FAN				COOLING COIL								HEATING COIL					FILTERS		ELECTRICAL			MATCH CU-X UNIT	WEIGHT LBS	REMARKS
					AIRFLOW CFM	ESP IN. H20	MOTOR HP	MOTOR RPM	TOTAL MBH	SENS MBH	REFRIG	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	AIR PD IN. WG	INPUT MBH	OUTPUT MBH	AFUE %	TEMP RISE °F	TYPE	TYPE	MIN MERV RATING	VOLTS/Ø	MCA	MOP			
AHU-033	TRANE BCHE036	SEE PLAN	SEE PLAN	-	1000	2.0	0.97	1652	45.6	30.5	-	80.0	67.0	52.4	51.9	0.38	58.6	46.9	80	55.4		MERV	13	208/1	9.66	15		198.6	SEE NOTES

NOTES:

1. MOUNT UNIT FROM STRUCTURE VIA 4 POINTS WITH VIBRATION ISOLATION SUPPORT RODS AND MOUNTING BRACKETS AS PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE DRAIN PAN WITH UL #508 APPROVED WATER DETECTION SENSOR FOR UNIT SHUTDOWN. WIRE CONTROL CIRCUIT THROUGH NC CONTACT.
3. PROVIDE DRAIN PAN WITH UL #508 APPROVED WATER DETECTION SENSOR FOR UNIT SHUTDOWN. WIRE CONTROL CIRCUIT THROUGH NC CONTACT.
4. PROVIDE UNIT MOUNTED NON-FUSED DISCONNECT SWITCH.
5. PROVIDE HINGED ACCESS DOORS.
6. PROVIDE BACNET INTERFACE.

FAN COIL UNIT SCHEDULE

FCU X

PLAN NO	MANUFACTURER MODEL	LOCATION	CFM	MIN OA CFM	ESP IN. WC	HEATING DATA					COOLING DATA				ELECTRICAL DATA				DIMENSIONS (IN.)			WEIGHT LBS	REMARKS
						MBH	GPM	PD FT H20	EWT	LWT	TOTAL MBH	SENS MBH	SST °F	MATCH CU-X UNIT	HP/ WATTS	VOLTS/Ø	MCA	MOP	LENGTH	WIDTH	HEIGHT		
FCU-027-A	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	75	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-027-B	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	75	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-027-C	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	0	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-027-D	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	0	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-037A-A	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	0	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-037A-B	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	218	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-038A-A	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	215	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-038A-B	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	0	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-036	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	300	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-035-A	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	180.5	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-035-B	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	0	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-035-C	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	180.5	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-034-A	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	50	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES
FCU-034-B	MULTIAQUA MHCFC4W-08-1	SEE PLAN	579	0	-	24.2	4.5	8.3	120	-	16.0	14.4	-	-	130	230/1	1	1	32.7	32.7	16.8	71.7	SEE NOTES

NOTES:

1. PROVIDE 1" THROWAWAY FILTERS.
2. PROVIDE DRAIN PAN WITH UL #508 APPROVED WATER LEVEL DETECTION SENSOR FOR UNIT SHUTDOWN. WIRE CONTROL CIRCUIT THROUGH NC CONTACT.
3. PROVIDE CONDENSATE LIFT PUMP.
4. PROVIDE ELECTRICAL DISCONNECT.
5. CONTROL WIRING BY ATC.
6. PROVIDE UNIT MOUNTED VIBRATION ISOLATION SUPPORT RODS TO STRUCTURAL STEEL.
7. CONTRACTOR SHALL ONLY CONNECT TO THE PRIMARY COIL.

FAN SCHEDULE

EF X

PLAN NO	MANUFACTURER MODEL	LOCATION	AREA SERVED	FAN TYPE	FAN PERFORMANCE			ELECTRICAL DATA				dBA	WEIGHT LBS	REMARKS
					CFM	TOTAL SP	FAN RPM	HP/ WATTS	RPM	VOLTS/Ø	DRIVE			
EF-A	GREENHECK CSP-A510-VG	SEE PLAN	SEE PLAN	EXHAUST	200	0.8	1359	73	1800	115/1	DIRECT	29	36	SEE NOTES

NOTES:

1. MOUNT FAN ON MINIMUM 12" HIGH ROOF CURB.
2. PROVIDE CURB ADAPTOR FOR NEW EXHAUST FAN AND SECURE TO EXISTING CURB. FIELD VERIFY EXACT DIMENSIONS REQUIRED FOR ADAPTOR CURB.
3. PROVIDE SOLID STATE SPEED CONTROL, NEMA-1 TOGGLE SWITCH, BIRDSCREEN & BACKDRAFT DAMPER.
4. PROVIDE ELECTRICAL DISCONNECT, VIBRATION ISOLATION SUPPORT RODS WITH MOUNTING BRACKETS, SPEED CONTROLLER AND ROUND DUCT CONNECTION.
5. PROVIDE CONTROLS FROM ATC CONTRACTOR.

LOUVER SCHEDULE

L X

PLAN NO	MANUFACTURER MODEL	TYPE	SERVICE	AIRFLOW CFM	FREE AREA SF	VELOCITY FPM	AIR PRESS DROP IN WC	DIMENSIONS			REMARKS
								DEPTH IN	WIDTH IN	HEIGHT IN	
L-A	GREENHECK ESD-435-18x10	DRAINABLE BLADE	INTAKE	150	0.3	510	0.04	4	18	10	SEE NOTES
L-B	GREENHECK ESD-202-18x10	DRAINABLE BLADE	EXHAUST	200	0.3	634	0.06	2	18	10	SEE NOTES

NOTES:

1. PROVIDE 2-COAT 70% KYNER 500 FINISH. ARCHITECT TO SELECT COLOR.
2. PROVIDE BIRDSCREEN.
3. PROVIDE LINTEL.
4. THE BEGINNING POINT OF WATER PENETRATION IS 1007 FPM.
5. LOUVERS ARE ACMA CERTIFIED.

AIR DEVICES SCHEDULE

BASED ON TITUS CO

PLAN NO.	CFM RANGE	NECK SIZE	OVERALL SIZE	MANUFACTURER MODEL	REMARKS	PLAN NO.	CFM RANGE	NECK SIZE	OVERALL SIZE	MANUFACTURER MODEL	REMARKS
CD	0-100	6" DIA	12x12	OMNI	SEE NOTES 1 & 6	RR/ER	0-100	-	24x12	355RL	SEE NOTES 2 & 6
CD	101-225	8" DIA	12x12	OMNI	SEE NOTES 1 & 6	RR/ER	101-200	-	24x12	355RL	SEE NOTES 2 & 6
CD	0-100	6" DIA	24x24	OMNI	SEE NOTES 1 & 6	RR/ER	0-1000	-	24x12	355RL	SEE NOTES 2 & 6
CD	101-225	8" DIA	24x24	OMNI	SEE NOTES 1 & 6	RR/ER	0-1000	-	24x24	355RL	SEE NOTES 2 & 6
CD	226-360	10" DIA	24x24	OMNI	SEE NOTES 1 & 6	RR1/ER1	SEE PLANS	-	SEE PLANS	350RL	SEE NOTES 4 & 6
CD	361-550	12" DIA	24x24	OMNI	SEE NOTES 1 & 6						
CD	551-750	14" DIA	24x24	OMNI	SEE NOTES 1 & 6						
CD	751-900	15" DIA	24x24	OMNI	SEE NOTES 1 & 6						
SR	SEE PLANS	-	SEE PLANS	300RL	SEE NOTES 3 & 6						
SR1	SEE PLANS	-	SEE PLANS	S300FS	SEE NOTES 5 & 6						

NOTES:

1. PROVIDE FRAME WITH ACCESSORIES FOR T-BAR LAY-IN DROPPED CEILING GRID OR SURFACE MOUNTED BORDER FOR GYPSUM CEILING APPLICATION. SEE DRAWINGS FOR MOUNTING LOCATION. PROVIDE ACCESSORY ROUND BACK ADAPTER (SIZE AS INDICATED IN SCHEDULE) AND EQUALIZING GRID PROVIDE OPTIONAL DIRECTIONAL BLOW CLIPS WHERE INDICATED ON DRAWINGS. PROVIDE AND INSTALL R-6 FOIL-BACKED INSULATION ON 12x12 MODULE. PROVIDE FACTORY INSTALLED R-6 FOIL-BACKED INSULATION ON 24x24 MODULE.
2. PROVIDE WITH 35° DEFLECTION AT 1/2" BLADE SPACING WITH FRONT BLADE PARALLEL TO LONG DIMENSION. PROVIDE FRAME WITH ACCESSORIES FOR T-BAR LAY-IN CEILING GRID OR SURFACE MOUNTED BORDER FOR GYPSUM CEILING APPLICATION. SEE DRAWINGS FOR MOUNTING LOCATION. PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED. PROVIDE OPTIONAL OPPOSED BLADE DAMPER.
3. PROVIDE SUPPLY REGISTER WITH DOUBLE DEFLECTION AT 3/4" BLADE SPACING WITH FRONT BLADES PARALLEL TO LONG DIMENSION, OPTIONAL DAMPER AND SURFACE MOUNT BORDER MOUNTING FRAME.
4. PROVIDE RETURN REGISTER WITH SINGLE DEFLECTION AT 3/4" BLADE SPACING WITH BLADES PARALLEL TO LONG DIMENSION, OPTIONAL DAMPER AND SURFACE MOUNT BORDER MOUNTING FRAME.
5. PROVIDE WITH DOUBLE DEFLECTION AT 3/4" BLADE SPACING WITH FRONT BLADES PARALLEL TO SHORT DIMENSION AND OPTIONAL ASD (AIR SCOOP DAMPER/EXTRACTOR).
6. PROVIDE STANDARD FINISH - #26 WHITE.
7. PROVIDE REMOTE CABLE OPERATED VOLUME DAMPERS LOCATED IN INACCESSIBLE CONSTRUCTION.

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PROGRESS SET
NOT FOR CONSTRUCTION

AMIN H. GOMAA, PE
PROFESSIONAL ENGINEER, NJ LIC. No. 24GE04842100

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street, Princeton, NJ 08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
TK

Drawn By
ST

Scale
AS NOTED

Drawing Name
MECHANICAL SCHEDULES

Revisions

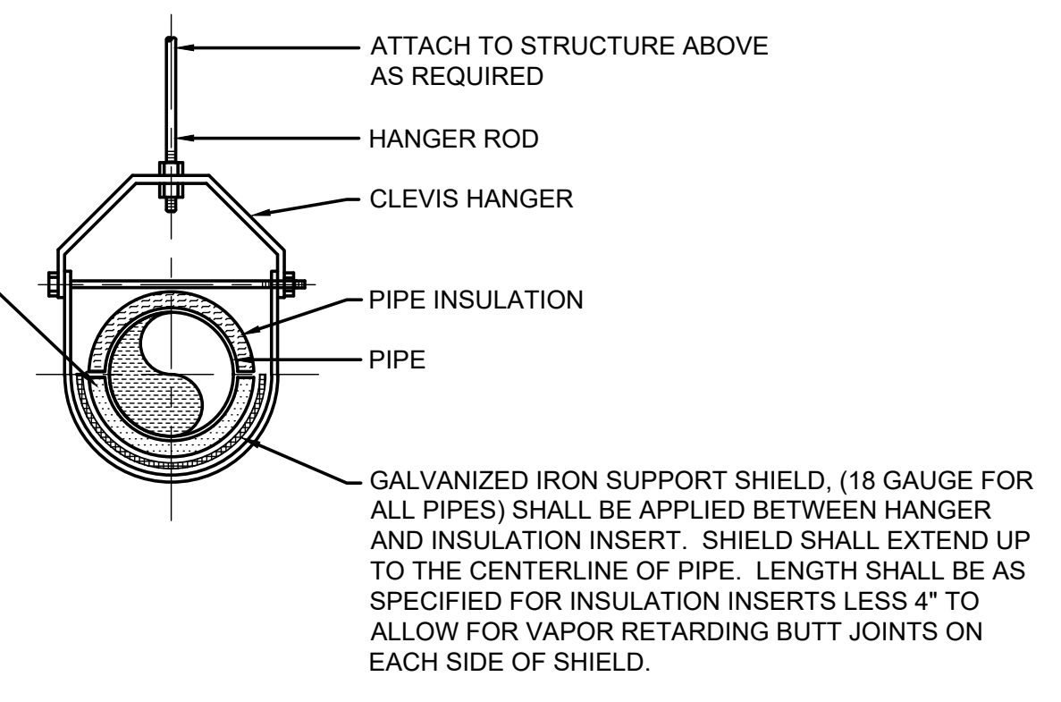
No.	Date	Description

Drawing Number
M4.0

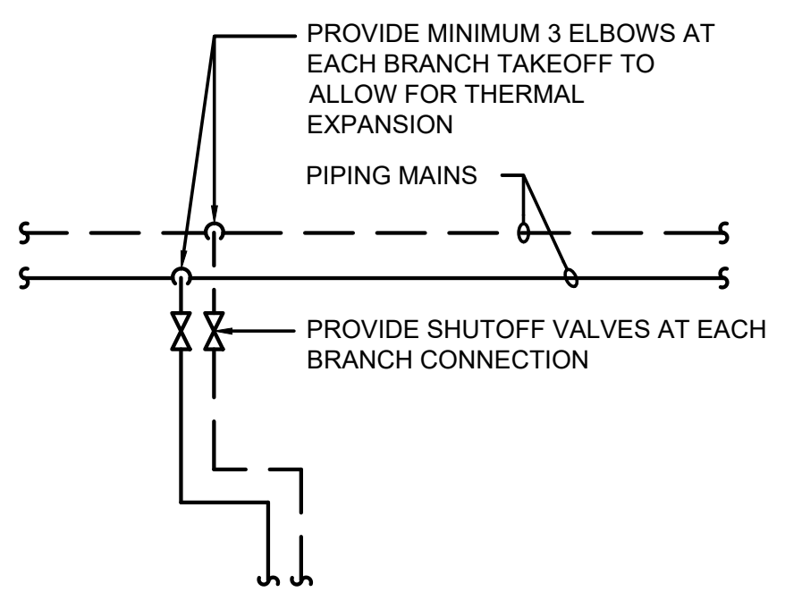
NOTE:
HANGERS AND COMPONENTS SHALL BE COATED WITH RUST RESISTANT PRIMER

HYDRONIC OR STEAM PIPING: PROVIDE INSULATION INSERT BETWEEN SUPPORT SHIELD AND PIPING AS SCHEDULED BELOW. FABRICATE INSERT OF HYDROUS CALCIUM SILICATE (JOHNS MANVILLE THERMO-12 GOLD) OR OTHER HEAVY DENSITY INSULATING MATERIAL SUITABLE FOR TEMPERATURE. PROVIDE VAPOR RETARDER SEALS WHERE REQUIRED. INSERTS SHALL BE OF EQUAL THICKNESS TO THE ADJOINING INSULATION. INSERTS SHALL NOT BE LESS THAN THE FOLLOWING LENGTHS:

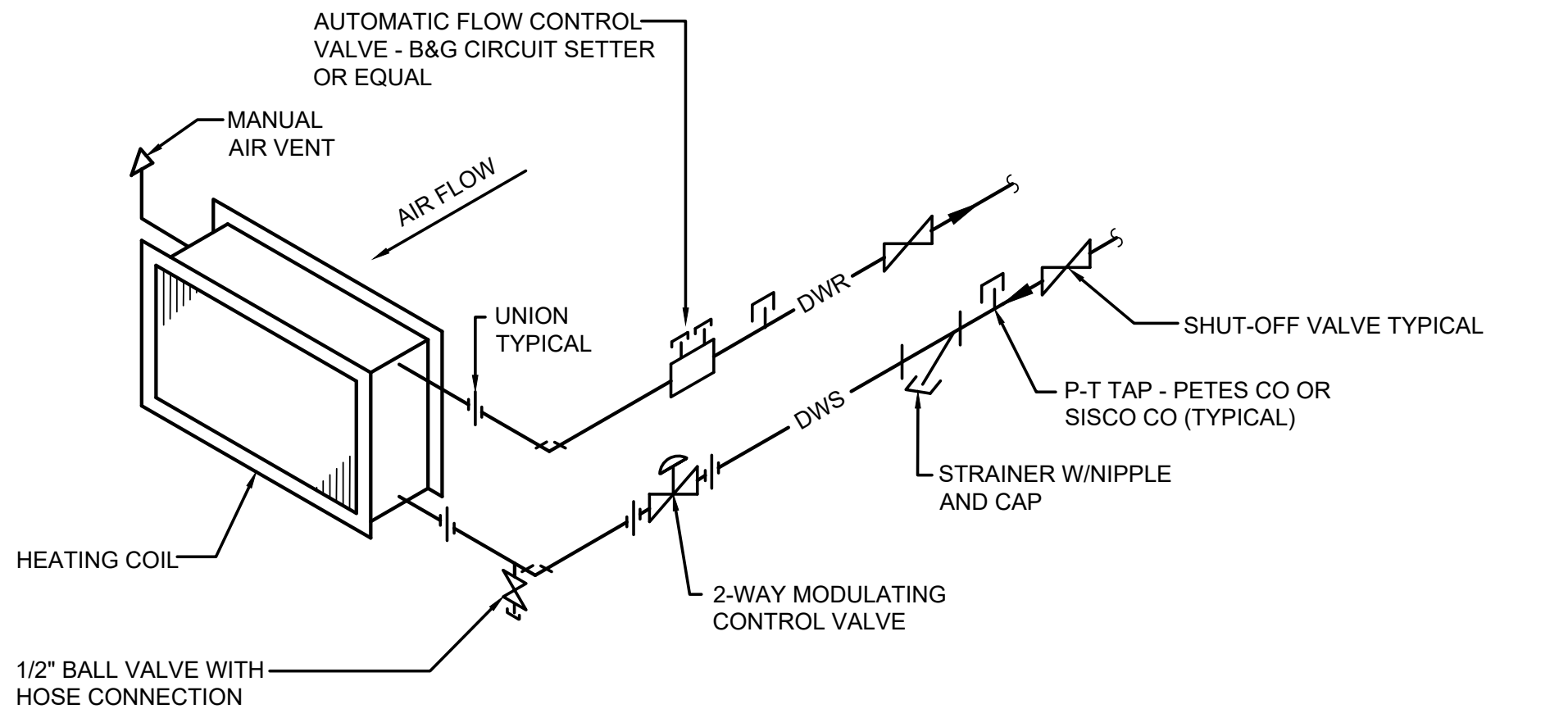
PIPE SIZE	INSERT LENGTH
3/4" TO 2-1/2"	10"
3" TO 6"	12"
8" TO 10"	16"
12" & LARGER	22"


ATTACH TO STRUCTURE ABOVE AS REQUIRED
HANGER ROD
CLEVIS HANGER
PIPE INSULATION
PIPE
GALVANIZED IRON SUPPORT SHIELD, (18 GAUGE FOR ALL PIPES) SHALL BE APPLIED BETWEEN HANGER AND INSULATION INSERT. SHIELD SHALL EXTEND UP TO THE CENTERLINE OF PIPE. LENGTH SHALL BE AS SPECIFIED FOR INSULATION INSERTS LESS 4" TO ALLOW FOR VAPOR RETARDING BUTT JOINTS ON EACH SIDE OF SHIELD.

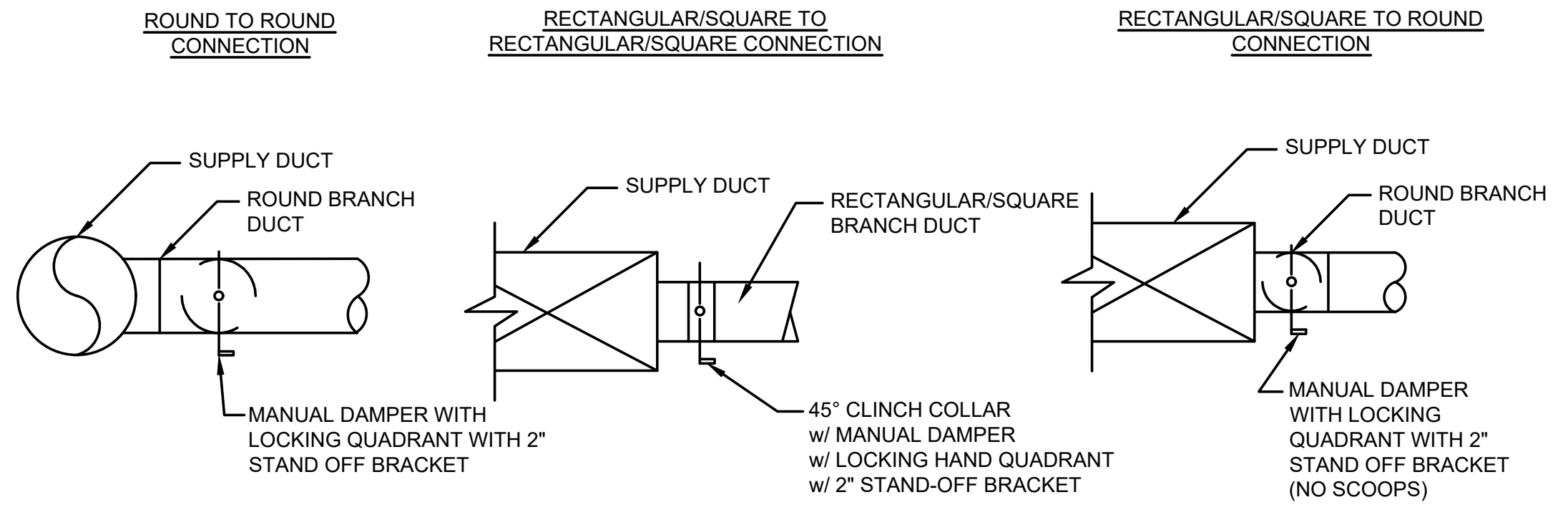
PIPE HANGER & INSULATED PIPE DETAIL
NOT TO SCALE


PROVIDE MINIMUM 3 ELBOWS AT EACH BRANCH TAKEOFF TO ALLOW FOR THERMAL EXPANSION
PIPING MAINS
PROVIDE SHUTOFF VALVES AT EACH BRANCH CONNECTION

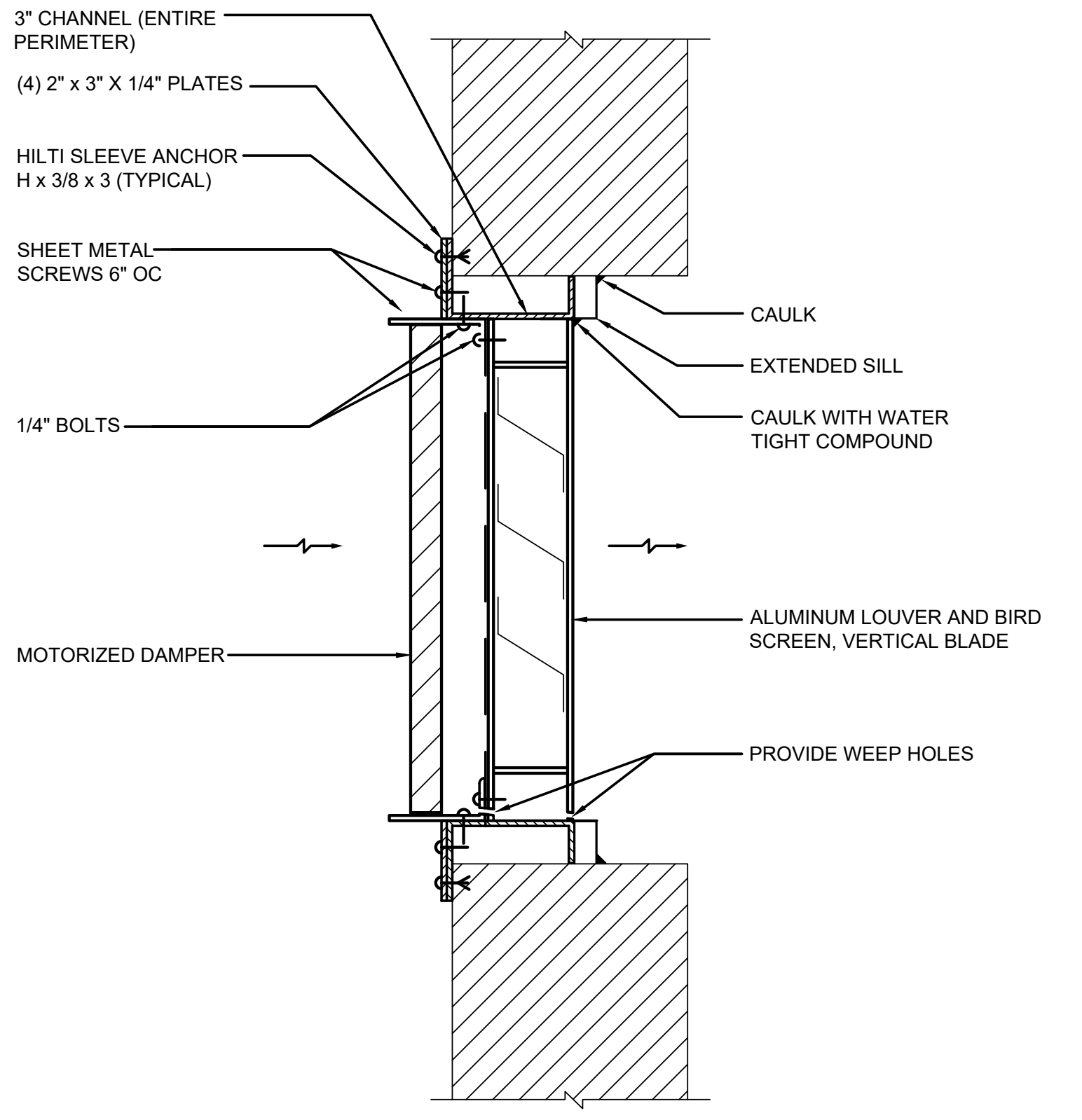
BRANCH TAKEOFF DETAIL
NOT TO SCALE


AUTOMATIC FLOW CONTROL VALVE - B&G CIRCUIT SETTER OR EQUAL
MANUAL AIR VENT
AIR FLOW
UNION TYPICAL
DWR
DWS
SHUT-OFF VALVE TYPICAL
P-T TAP - PETES CO OR SISCO CO (TYPICAL)
STRAINER W/NIPPLE AND CAP
HEATING COIL
2-WAY MODULATING CONTROL VALVE
1/2" BALL VALVE WITH HOSE CONNECTION

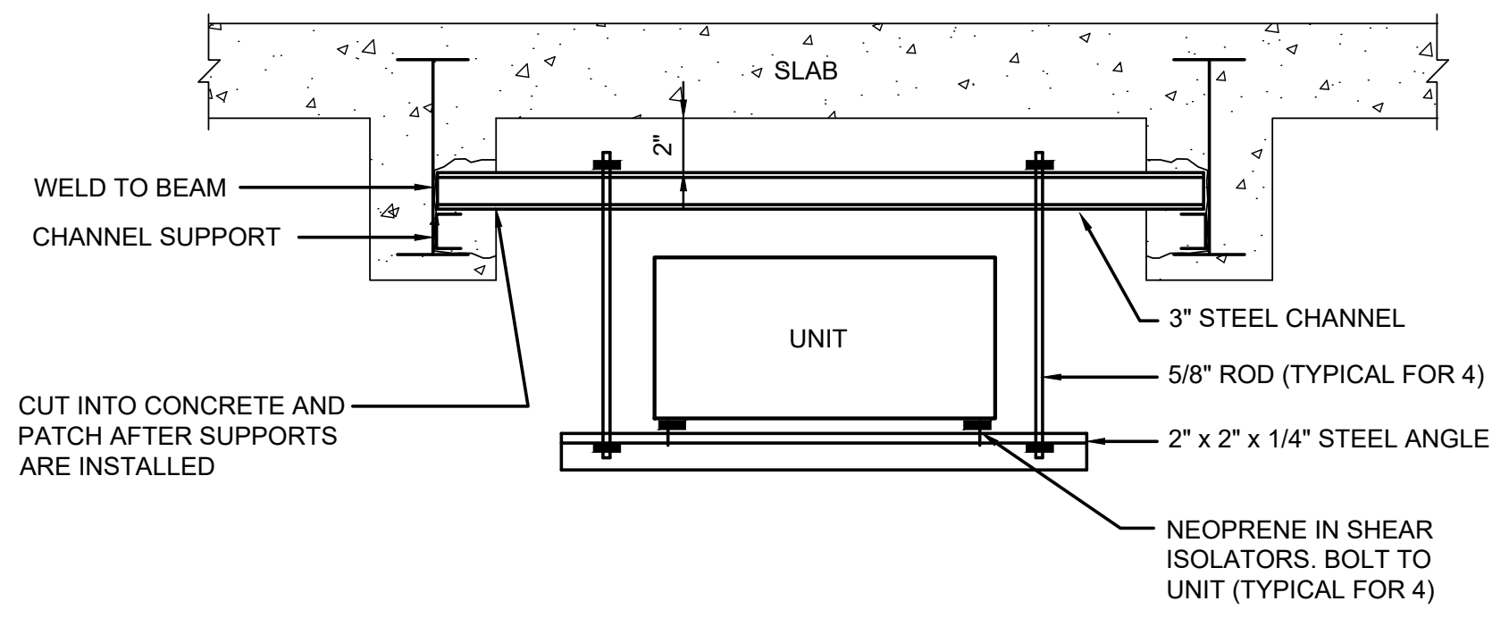
DUAL TEMP COIL DETAIL
NOT TO SCALE


ROUND TO ROUND CONNECTION
RECTANGULAR/SQUARE TO RECTANGULAR/SQUARE CONNECTION
RECTANGULAR/SQUARE TO ROUND CONNECTION
SUPPLY DUCT
ROUND BRANCH DUCT
MANUAL DAMPER WITH LOCKING QUADRANT WITH 2" STAND OFF BRACKET
SUPPLY DUCT
RECTANGULAR/SQUARE BRANCH DUCT
45° CLINCH COLLAR w/ MANUAL DAMPER w/ LOCKING HAND QUADRANT w/ 2" STAND-OFF BRACKET
SUPPLY DUCT
ROUND BRANCH DUCT
MANUAL DAMPER WITH LOCKING QUADRANT WITH 2" STAND OFF BRACKET (NO SCOOPS)

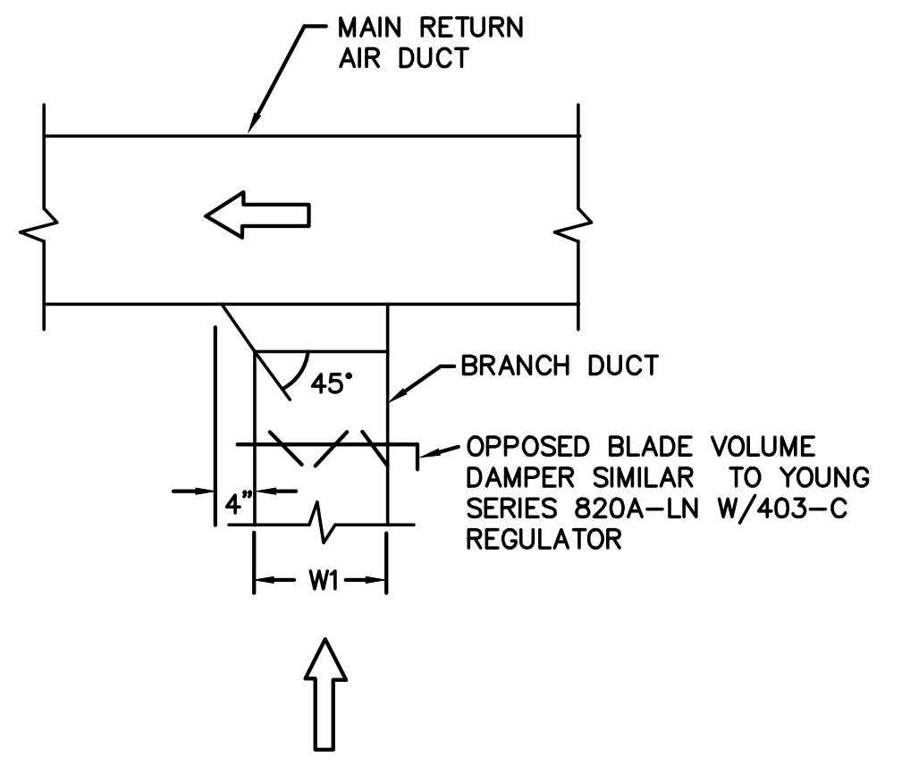
BRANCH DUCT CONNECTION DETAIL
NOT TO SCALE


3" CHANNEL (ENTIRE PERIMETER)
(4) 2" x 3" X 1/4" PLATES
HILTI SLEEVE ANCHOR H x 3/8 x 3 (TYPICAL)
SHEET METAL SCREWS 6" OC
1/4" BOLTS
MOTORIZED DAMPER
CAULK
EXTENDED SILL
CAULK WITH WATER TIGHT COMPOUND
ALUMINUM LOUVER AND BIRD SCREEN, VERTICAL BLADE
PROVIDE WEEP HOLES

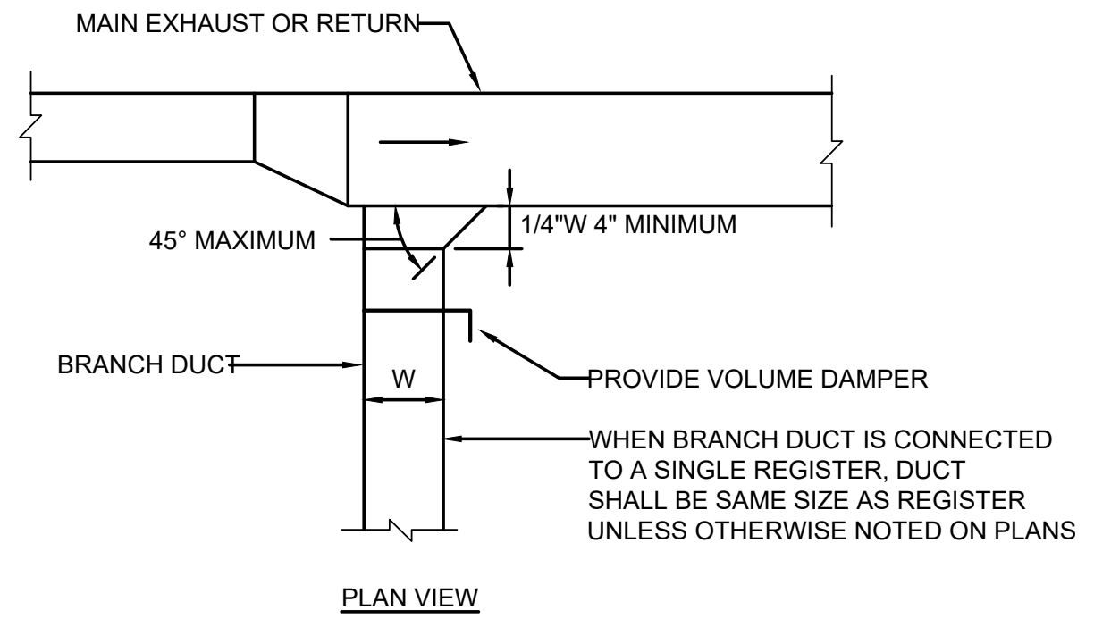
EXTERIOR LOUVER DETAIL
NOT TO SCALE


SLAB
2"
WELD TO BEAM
CHANNEL SUPPORT
CUT INTO CONCRETE AND PATCH AFTER SUPPORTS ARE INSTALLED
UNIT
3" STEEL CHANNEL
5/8" ROD (TYPICAL FOR 4)
2" x 2" x 1/4" STEEL ANGLE
NEOPRENE IN SHEAR ISOLATORS. BOLT TO UNIT (TYPICAL FOR 4)

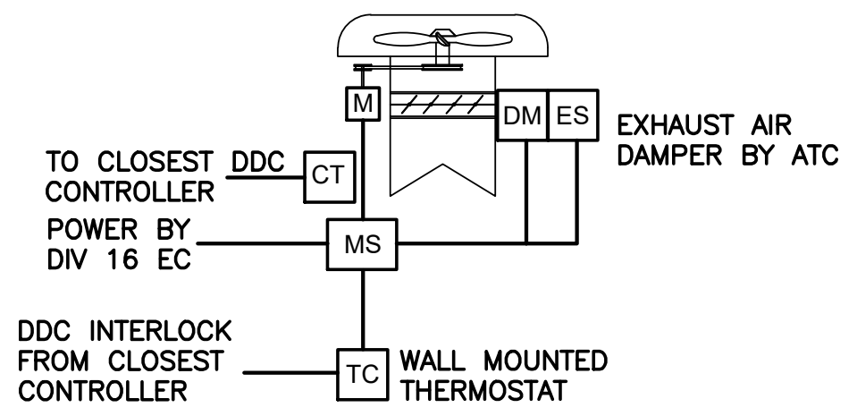
UNIT MOUNTING SUPPORT DETAIL
NOT TO SCALE


MAIN RETURN AIR DUCT
45°
BRANCH DUCT
OPPOSED BLADE VOLUME DAMPER SIMILAR TO YOUNG SERIES 820A-LN W/403-C REGULATOR
4"
W1

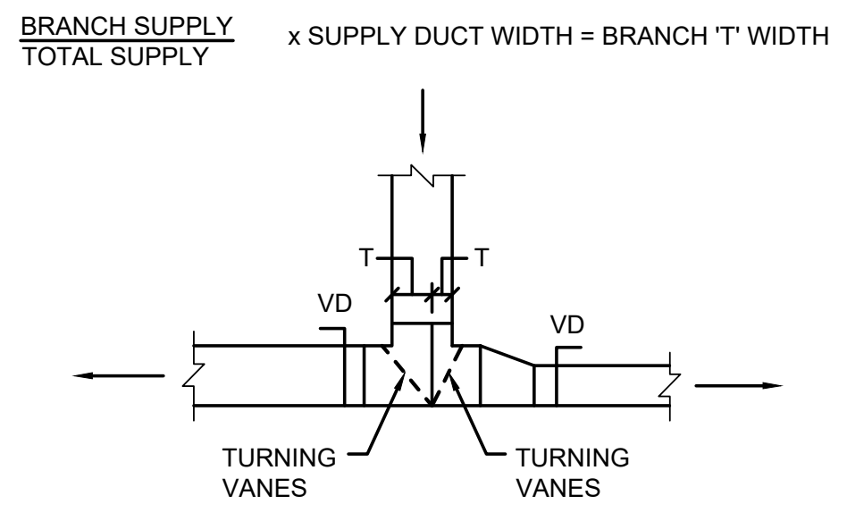
RETURN AIR DUCTWORK BRANCH DUCT CONNECTION
NOT TO SCALE


MAIN EXHAUST OR RETURN
45° MAXIMUM
1/4"W 4" MINIMUM
BRANCH DUCT
W
PROVIDE VOLUME DAMPER
WHEN BRANCH DUCT IS CONNECTED TO A SINGLE REGISTER, DUCT SHALL BE SAME SIZE AS REGISTER UNLESS OTHERWISE NOTED ON PLANS
PLAN VIEW

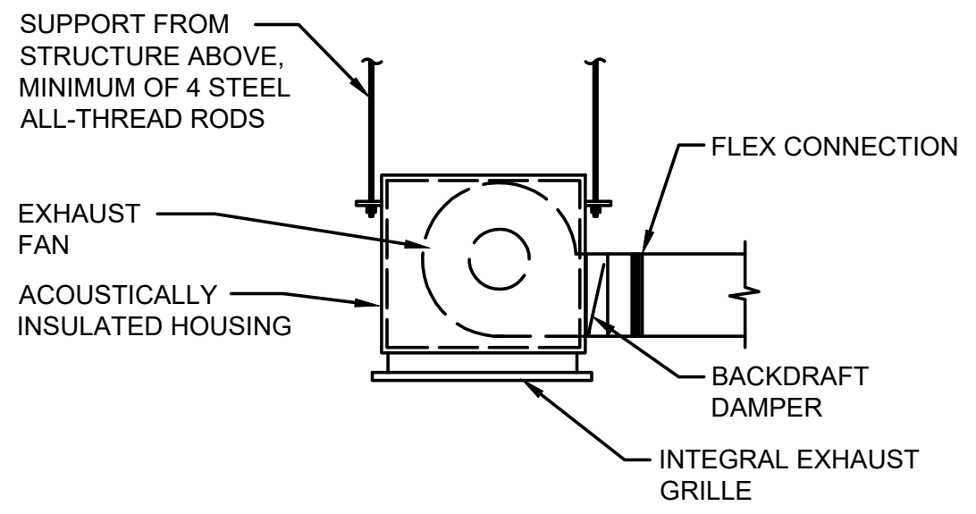
EXHAUST AND/OR RETURN BRANCH DUCT DETAIL
NOT TO SCALE


M
DM
ES
EXHAUST AIR DAMPER BY ATC
TO CLOSEST DDC CONTROLLER
CT
POWER BY DIV 16 EC
MS
DDC INTERLOCK FROM CLOSEST CONTROLLER
TC
WALL MOUNTED THERMOSTAT

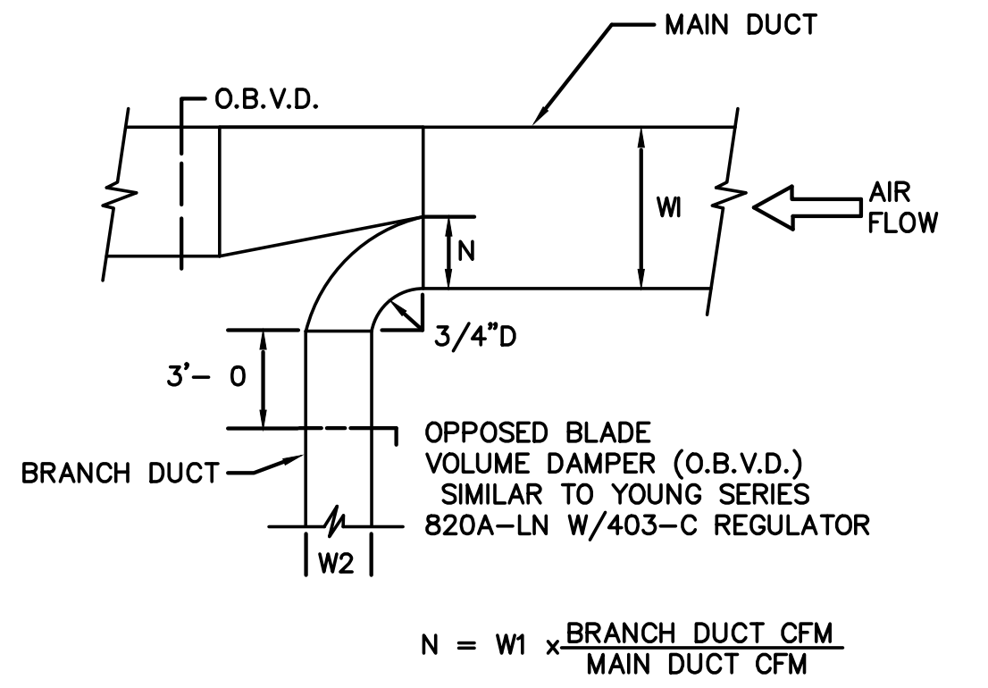
ATC DIAGRAM - EXHAUST FAN
INTERLOCKED
NOT TO SCALE


BRANCH SUPPLY / TOTAL SUPPLY x SUPPLY DUCT WIDTH = BRANCH 'T' WIDTH
T
T
VD
VD
TURNING VANES
TURNING VANES

SPLITTER DAMPER DETAIL
NOT TO SCALE


SUPPORT FROM STRUCTURE ABOVE, MINIMUM OF 4 STEEL ALL-THREAD RODS
FLEX CONNECTION
EXHAUST FAN
ACOUSTICALLY INSULATED HOUSING
BACKDRAFT DAMPER
INTEGRAL EXHAUST GRILLE

CEILING MOUNT EXHAUST FAN
NOT TO SCALE

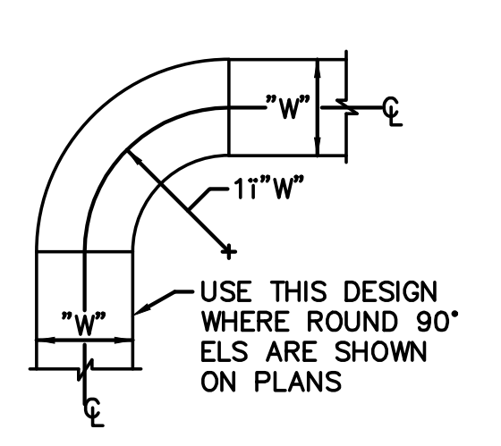

MAIN DUCT
O.B.V.D.
W1
AIR FLOW
N
3/4"D
3'- 0
BRANCH DUCT
OPPOSED BLADE VOLUME DAMPER (O.B.V.D.) SIMILAR TO YOUNG SERIES 820A-LN W/403-C REGULATOR
W2

$$N = W1 \times \frac{\text{BRANCH DUCT CFM}}{\text{MAIN DUCT CFM}}$$

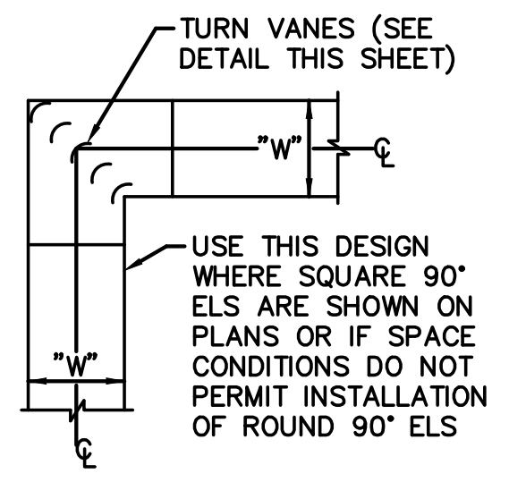
SUPPLY AIR DUCTWORK BRANCH DUCT CONNECTION
NOT TO SCALE

AQ	AQUASTAT	MS	MAGNETIC STARTER
AFS	AIR FLOW STATION (ANALOG)	VFD	VARIABLE FREQUENCY DRIVE
FS	FLOW SWITCH (DIGITAL)	R	CONTROL RELAY
V	CONTROL VALVE ACTUATOR	CS	CURRENT SENSOR (ANALOG)
DM	DAMPER MOTOR/ACTUATOR	CT	CURRENT SWITCH (DIGITAL)
DPT	DIFFERENTIAL PRESSURE SENSOR (ANALOG)	TS	TEMPERATURE SENSOR (PROBE/IMMERSION)
ES	END SWITCH	TS	TEMPERATURE SENSOR (AVERAGING)
LLS	LOW-LIMIT SWITCH	DPS	DIFFERENTIAL PRESSURE SENSOR (DIGITAL)
RH	RELEATIVE HUMIDITY SENSOR	SD	SMOKE DETECTOR (DUCT)
CO	CARBON-MONOXIDE SENSOR	TS	THERMOSTAT SWITCH
CO2	CARBON-DIOXIDE SENSOR	XFMR	120/24VAC TRANSFORMER
IAQ	INDOOR AIR QUALITY		

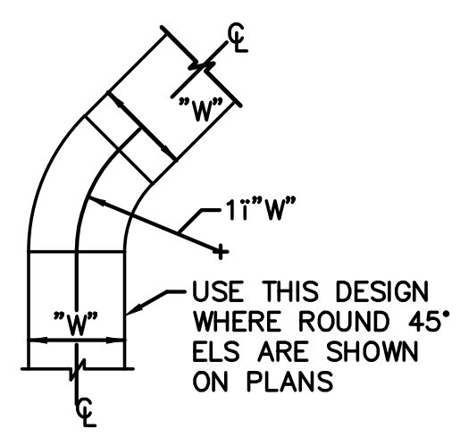
ATC LEGEND
NOT TO SCALE



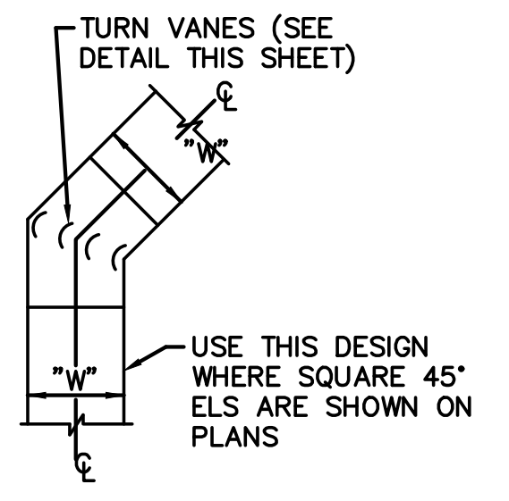
ROUND 90° ELBOW


TURN VANES (SEE DETAIL THIS SHEET)
"W"
USE THIS DESIGN WHERE SQUARE 90° ELS ARE SHOWN ON PLANS OR IF SPACE CONDITIONS DO NOT PERMIT INSTALLATION OF ROUND 90° ELS
"W"

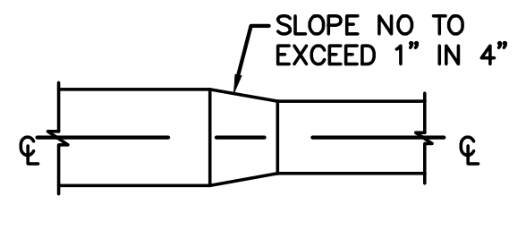
SQUARE 90° ELBOW



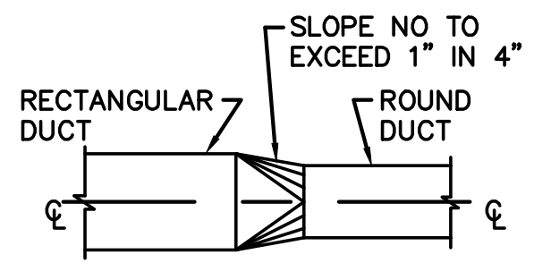
ROUND 45° ELBOW


TURN VANES (SEE DETAIL THIS SHEET)
"W"
USE THIS DESIGN WHERE SQUARE 45° ELS ARE SHOWN ON PLANS
"W"

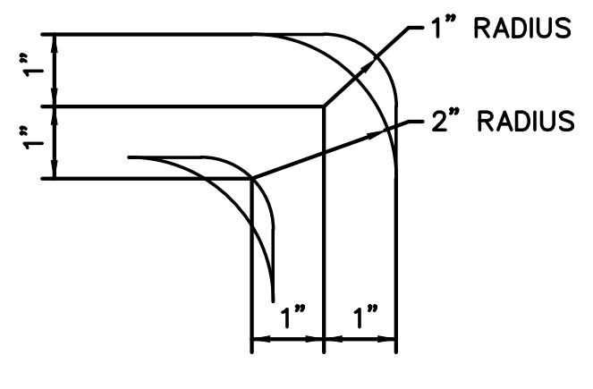
SQUARE 45° ELBOW



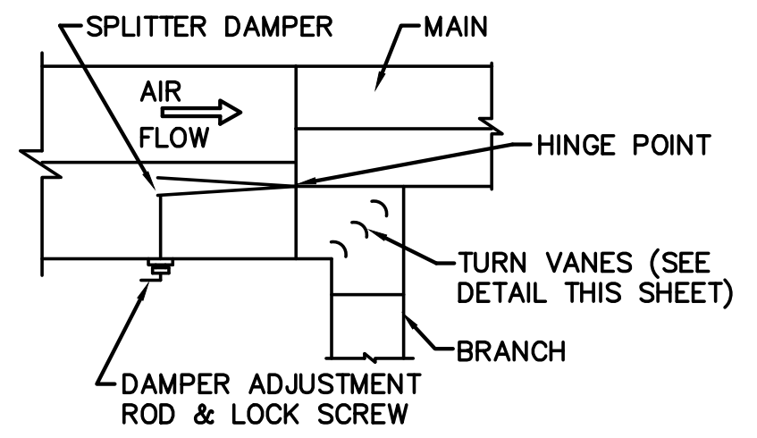
TYPICAL RECTANGULAR TRANSITION



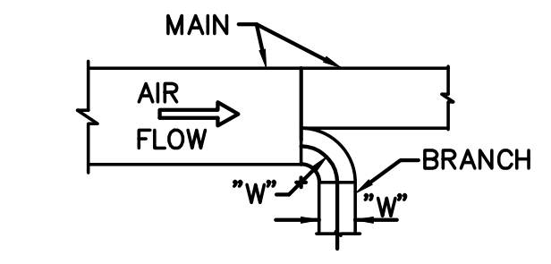
TYPICAL RECTANGULAR TO ROUND TRANSITION



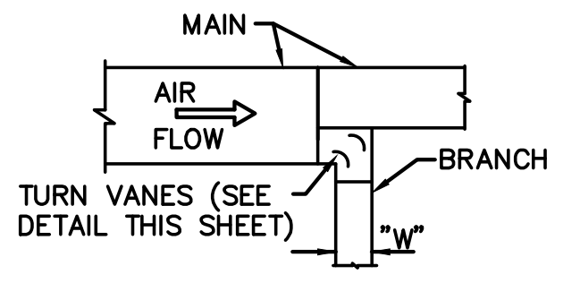
DETAIL OF TURN VANES


SPLITTER DAMPER
MAIN
AIR FLOW
HINGE POINT
TURN VANES (SEE DETAIL THIS SHEET)
BRANCH
DAMPER ADJUSTMENT ROD & LOCK SCREW

TYPICAL SPLITTER DAMPER

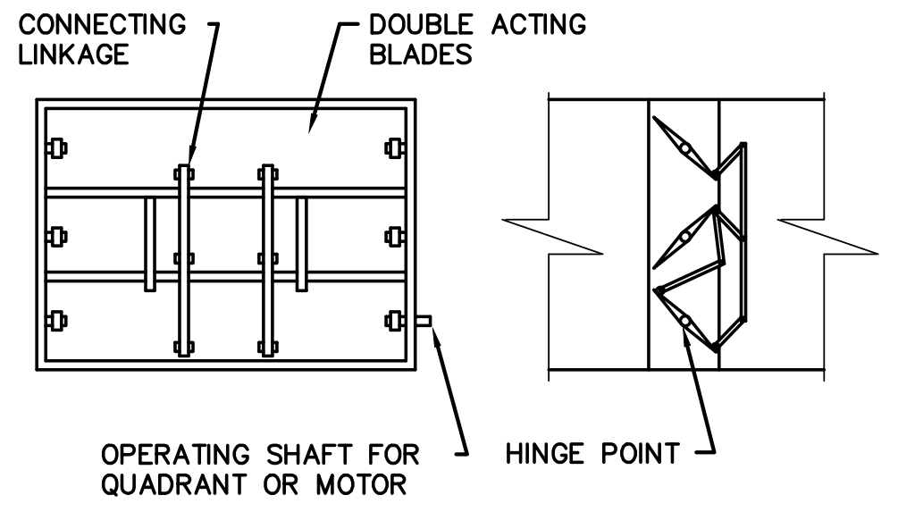


ROUND BRANCH TAKEOFF



SQUARE BRANCH TAKEOFF

CONSTRUCTION OF BRANCH TAKEOFF FROM MAIN

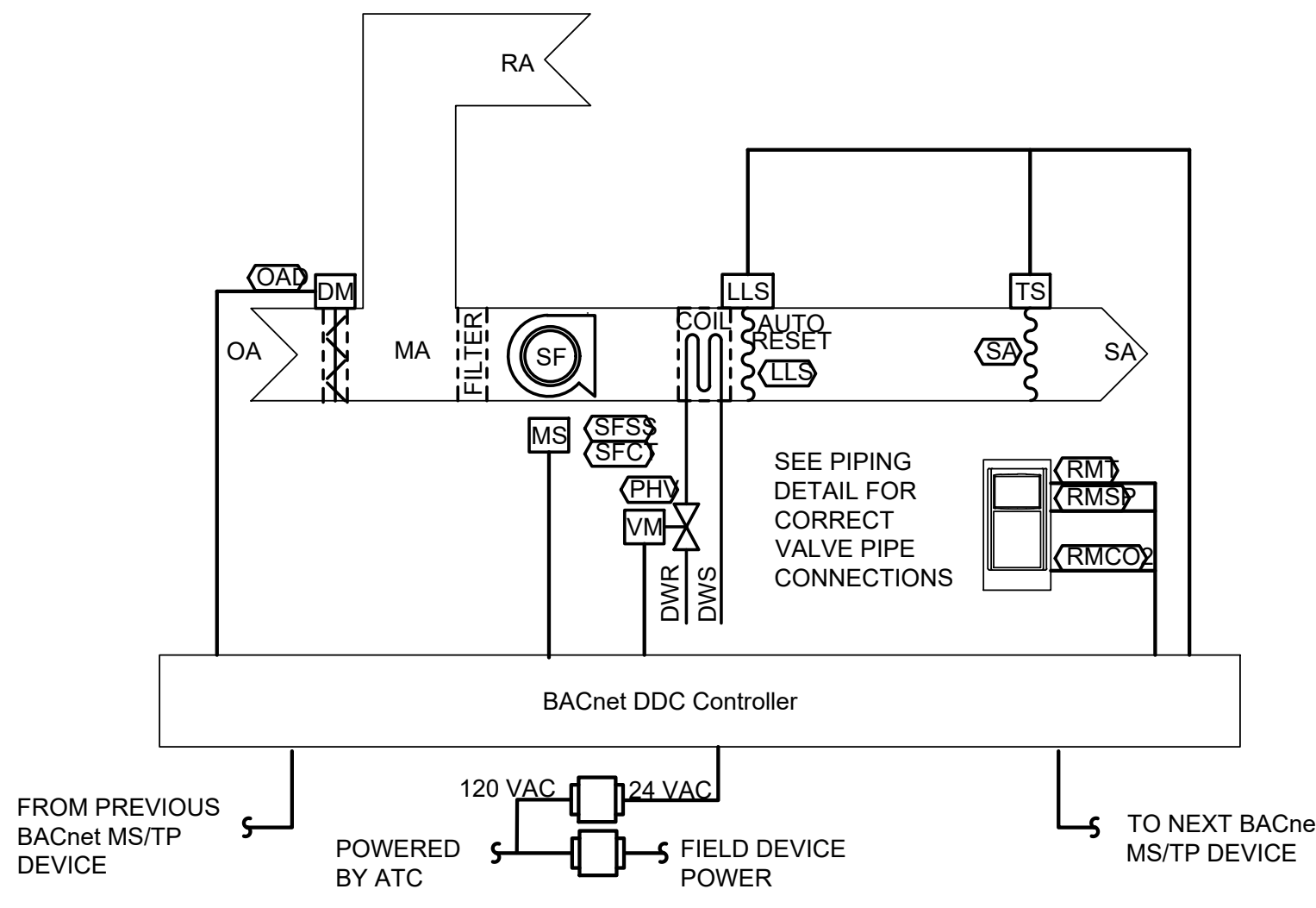


TYPICAL VOLUME DAMPER

INSTALLATION NOTES

1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS GAGES AND MATERIAL SHOWN IN THE SPECIFICATIONS ON THESE DRAWINGS.
3. THE DIMENSIONS SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. AIR TURN VANES SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULANCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERTING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL PIPE DAMPER AS REQUIRED BY N.F.P.A. PAMPHLET No.90A OR THE LOCAL CODES.
9. ACCESS PANELS SHOULD BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
10. WHEN OBSTRUCTION CANNOT BE AVOIDED DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCEN, AND A STREAMLINED FITTING SHOULD BE USED.
11. FLEXIBLE CONNECTIONS SHOULD BE USED ON BOTH THE INLET AND OUTLET TO ALL FANS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

LOW VELOCITY DUCT LAYOUT DETAILS
NOT TO SCALE



ATC DIAGRAM - FAN COIL UNIT/AIR HANDLING UNIT
DUAL TEMP COIL
NOT TO SCALE

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F V H D P C . C O M

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2
Project Date
02.06.2026
Checked By
TK
Drawn By
ST
Scale
AS NOTED

Drawing Name
MECHANICAL DETAILS

Revisions

No.	Date	Description

Drawing Number
M5.0

ELECTRICAL GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND DEFINE THE INTENT OF THE WORK. LOCATIONS OF EQUIPMENT, FIXTURES, DEVICES, PANELBOARDS, DUCTS, PIPING, DIFFUSERS, PARTITIONS, OPENINGS, ETC. ARE APPROXIMATE AND ARE SUBJECT TO MODIFICATIONS CAUSED BY STRUCTURAL CONDITIONS AND EQUIPMENT PROVIDED BY OTHER CONTRACTORS, SUBCONTRACTORS OR THE OWNER. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES. DETERMINE ROUGHING LOCATIONS FROM APPROVED SHOP DRAWINGS. MINOR MODIFICATIONS OF LOCATIONS REQUIRED TO EFFECT SUCH COORDINATION SHALL BE MADE AT NO COST TO THE OWNER.
2. THE DRAWINGS HAVE BEEN PRODUCED ENTIRELY ON FPA CADD SYSTEM. ANY OTHER LETTERING, LINES OR SYMBOLS, OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE AUTHORIZATION OF FPA AND ARE INVALID.
3. REPRODUCTION OF ANY PORTION OF THE CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
4. SPECIFICATIONS MAY REQUIRE WORK, EQUIPMENT, SYSTEMS, METHODS, ETC. THAT IS NOT INDICATED ON THE DRAWINGS.
5. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY TO EACH OTHER. WHERE DISCREPANCIES OR CONFLICTS OCCUR, THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY METHOD IN HIS PROPOSAL UNLESS CLARIFIED BY BULLETIN OR ADDENDUM ACKNOWLEDGED PRIOR TO RECEIPT OF BIDS.
6. DRAWINGS SHALL NOT BE SCALED. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND REQUIREMENTS OF THE WORK. ALTHOUGH SIZE AND LOCATION OF EQUIPMENT IS DRAWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY INFORMATION AT THE PROJECT SITE.
7. THE OWNER WILL OCCUPY THE SITE AND EXISTING BUILDING DURING THE ENTIRE CONSTRUCTION PERIOD. COOPERATE WITH THE OWNER DURING CONSTRUCTION OPERATIONS TO AVOID ANY CONFLICTS. PERFORM THE WORK SO AS NOT TO INTERFERE WITH THE OWNER'S OPERATIONS. SCHEDULE ALL POWER OUTAGES FOR OVERTIME ON SUNDAYS AND HOLIDAYS AT NO ADDITIONAL COST TO THE OWNER.
8. EXISTING PROJECT CONDITIONS INDICATED ARE BASED ON FIELD OBSERVATION, EXISTING DESIGN / CONSTRUCTION DOCUMENTS AND EXISTING RECORD DOCUMENTS AND ARE INTENDED TO INDICATE THE SCOPE OF THE WORK AFFECTED BY THIS PROJECT.
9. THE TERM “OTHERS” SHALL BE UNDERSTOOD TO MEAN CONTRACTORS, SUBCONTRACTORS OR TRADESMEN ON THE PROJECT PERFORMING WORK ON THIS PROJECT UNDER SECTIONS OR DIVISIONS OTHER THAN ELECTRICAL WORK.
10. VERIFY THAT FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS INDICATED.
11. PRIOR TO BIDDING VISIT THE PROJECT SITE TO DETERMINE THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. SCHEDULE SITE VISIT WITH OWNER.
12. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR THE INSTALLATION, RELOCATION AND CONNECTION OF THE ELECTRICAL WORK.
13. ALL MATERIAL SHALL BE UNDERWRITERS' LABORATORIES LISTED FOR ITS APPLICATION WHERE SUCH LISTING IS APPLICABLE.
14. ALL EQUIPMENT SHALL BE AS INDICATED OR AS APPROVED BY THE ENGINEER.
15. SUBMIT SHOP DRAWINGS, PRODUCT DATA SHEETS AND WIRING DIAGRAMS FOR ALL ELECTRICAL CONSTRUCTION MATERIALS, DEVICES, EQUIPMENT, APPLIANCES AND SYSTEMS.
16. OBTAIN SHOP DRAWINGS AND WIRING DIAGRAMS FROM OWNER AND OTHER CONTRACTORS FOR THE PROPER INSTALLATION OF RELATED ELECTRICAL WORK AND, UNLESS OTHERWISE NOTED, WIRE ALL CONTROL DEVICES, VALVES, THERMOSTATS, ETC. REQUIRED FOR THE PROPER OPERATION OF THEIR SYSTEMS.
17. OBTAIN ALL PERMITS REQUIRED, HAVE THE WORK INSPECTED FOR CODE COMPLIANCE AND PAY ALL FEES FOR INSPECTION AND CERTIFICATION.
18. MAKE THE NECESSARY ARRANGEMENTS, AND PAY ALL COSTS, FOR TEMPORARY AND/OR PERMANENT ELECTRIC SERVICE FOR THE PROJECT.
19. PROVIDE ADEQUATE TEMPORARY ELECTRICAL LIGHT AND POWER FOR THE PROJECT WORK OF ALL TRADES.
20. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AFFECTED BY THIS WORK WHICH MUST REMAIN IN SERVICE.
21. MAKE ALL MODIFICATIONS NECESSARY TO EXISTING PANELBOARDS AND SWITCHBOARDS TO ACCEPT NEW CIRCUITS.
22. WHERE ELECTRICAL EQUIPMENT (I.E. SWITCHBOARDS, PANELBOARDS, BUS DUCTS, TRANSFORMERS, DISCONNECTS, ETC.) OR SYSTEMS (I.E. FIRE ALARM, SOUND, INTERCOMMUNICATIONS, ALARM, ETC.) IS INDICATED TO BE MODIFIED TO ACCEPT NEW WORK SAID MODIFICATIONS SHALL BE PERFORMED BY ELECTRICAL EQUIPMENT FABRICATORS OR MANUFACTURER'S REPRESENTATIVES WHO CAN AFFECT SUCH MODIFICATIONS WITHOUT VOIDING THE UL LABEL OR MANUFACTURER'S WARRANTIES.
23. WHERE NEW EQUIPMENT IS INDICATED TO BE "RECONNECTED" TO EXISTING WIRING, CONDUIT OR OTHER PART OF AN EXISTING ELECTRICAL SYSTEM, THE CONTRACTOR SHALL MODIFY OR EXTEND THE EXISTING SYSTEM COMPONENTS AS REQUIRED TO MEET THE CONNECTION POINT OF THE NEW ITEM. THE CONTRACTOR SHALL USE MATERIALS AND METHODS THAT MATCH THE EXISTING SYSTEM, OR AS SPECIFIED FOR NEW WORK, WHICHEVER IS MORE SUITABLE FOR THE APPLICATION.
24. WHERE EXISTING EQUIPMENT IS INDICATED TO BE "CONNECTED" OR "RECONNECTED" TO NEW WIRING, CONDUIT, ETC, THE CONTRACTOR SHALL FABRICATE AND INSTALL THE NEW SYSTEM CONNECTIONS TO MATCH THE CONNECTION POINTS AND OTHER REQUIREMENTS OF THE EXISTING EQUIPMENT. WHERE THE EXISTING EQUIPMENT MUST BE REMOVED AND REINSTALLED TO FACILITATE THE REMOVAL OF THE OLD CONNECTIONS AND/ OR THE CONNECTION OF THE NEW MATERIAL, THAT WORK SHALL BE A PART OF THIS CONTRACT.
25. EXACT LOCATION OF EQUIPMENT SHALL BE COORDINATED IN THE FIELD.
26. REFER TO APPROVED REFLECTED CEILING PLANS FOR EXACT LIGHTING LAYOUTS.
27. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR EQUIPMENT LOCATIONS AND CONTROLS.
28. GROUNDING AND BONDING SHALL MEET NEC AND EQUIPMENT / SYSTEM MANUFACTURER'S REQUIREMENTS.
29. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF DEBRIS GENERATED BY HIS WORK AND WORKERS AT THE END OF EACH WORKING DAY AND FOR GENERAL GOOD HOUSEKEEPING BY HIS WORKERS. CONTRACTOR SHALL PROVIDE REQUIRED REFUSE CONTAINERS.
30. DISCONNECT AND REMOVE FROM THE PREMISES, OR STORE ON THE PREMISES IF REQUESTED BY THE OWNER, ALL EQUIPMENT FIXTURES, DEVICES, RACEWAY, WIRING, CABLE, SUPPORTING DEVICES, ETC. REMOVED OR ABANDONED AS A RESULT OF THIS WORK. MAKE SAFE ALL WIRING AND CABLE WHICH MUST REMAIN IN SERVICE.
31. REMOVE AND RELOCATE EXISTING EQUIPMENT, FIXTURES, DEVICES, ETC. AS INDICATED AND AS REQUIRED TO CLEAR NEW WORK. EXTEND AND CONNECT NEW WIRING TO EXISTING.
32. DISCONNECT AND REMOVE, OR TEMPORARILY RELOCATE, EXISTING LIGHTING FIXTURES, LOUDSPEAKERS, ETC. TO CLEAR THE INSTALLATION OF NEW DUCTWORK, PIPING, EQUIPMENT, ETC. THROUGHOUT THE ENTIRE RENOVATED AREAS AND REINSTALL WHEN WORK IS COMPLETE. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS FOR THE EXTENT OF THE WORK. PROVIDE TEMPORARY NORMAL AND EMERGENCY LIGHTING; AND TEMPORARILY RECONNECT LOUDSPEAKERS, ETC. UNTIL THE CEILING IS REINSTALLED. EXTEND EXISTING WIRING TO NEW LOCATIONS AS REQUIRED.
33. TEMPORARILY RELOCATE, EXISTING FIRE ALARM DEVICES, HEAT/SMOKE DETECTORS, ETC. TO CLEAR THE INSTALLATION OF NEW DUCTWORK, PIPING, EQUIPMENT, ETC. THROUGHOUT THE ENTIRE RENOVATED AREA. PROVIDE TEMPORARY SUPPORT OF EXISTING DEVICES AND REINSTALL WHEN WORK IS COMPLETED. RE-TEST THE FIRE ALARM SYSTEM PER NFPA 72 REQUIREMENTS. EXISTING FIRE ALARM DEVICES SHALL NOT BE DISABLED OR REMOVED FROM SERVICE. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL PLANS AND SPECIFICATIONS FOR THE EXTENT OF THIS WORK.
34. REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK AND REPLACE IN KIND ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK. COORDINATE WITH ARCHITECT.
35. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE WORK. CUT NO STRUCTURAL MEMBER WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. FINISH AND PAINT ALL PATCHED SURFACES WITH TWO COATS OF PAINT TO MATCH EXISTING SURFACES AS CLOSELY AS POSSIBLE. SEAL OPENINGS VERMIN AND WATER PROOF AND MAINTAIN FIRE RATING. USE SPECIFIED TECHNOLOGIES, INC. “SPECSEAL” SERIES LCI FOR PENETRATIONS
36. ALL PENETRATIONS IN FOUNDATION WALLS AND FLOORS INCLUDING SLAB PENETRATIONS SHALL BE SUBSTANTIALLY SEALED BY UTILIZING A NON-CRACKING POLYURETHANE OR SIMILAR CAULK OR EQUIVALENT TO CLOSE OFF THE SOIL GAS ENTRY ROUTES. ALL CONDUITS IN THE SPACE BELOW THE FOUNDATION FLOOR WHICH PENETRATE THESE BARRIERS SHALL HAVE THREADED OR SOLVENTED FITTINGS.
37. ALL NEW RACEWAY, WIRING AND CABLE IN NEW AND EXISTING FINISHED SPACES SHALL BE RUN CONCEALED IN NEW AND EXISTING CONSTRUCTION UNLESS OTHERWISE INDICATED; CUT AND PATCH AS REQUIRED. PROVIDE PULLBOXES, SIZE AND TYPE AS REQUIRED.
38. EXPOSED RACEWAY, WHERE PERMITTED BY THE ARCHITECT AND ENGINEER, SHALL BE RUN TRUE, PLUMB AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. RIGID METAL CONDUIT, 3/4 INCH MINIMUM, SHALL BE USED OUTDOORS; ELECTRICAL METALLIC TUBING, 3/4 INCH MINIMUM, SHALL BE USED IN INDOOR UNFINISHED SPACES; SURFACE METAL RACEWAY (WIREMOLD) SHALL BE USED IN INDOOR FINISHED SPACES.
39. ALL WIRING SHALL BE COPPER CONDUCTOR WITH 600 VOLTS INSULATION IN METAL RACEWAY WITH APPROVED FITTINGS UNLESS OTHERWISE INDICATED.
40. FEEDERS AND BRANCH CIRCUITS UNDERGROUND IN RACEWAY: TYPE THHN-THWN 90 DEGREE C
41. INTERIOR FEEDERS AND BRANCH CIRCUITS IN RACEWAY: TYPE THHN 90 DEGREE C.
42. BRANCH CIRCUIT HOMERUNS TO FIRST OUTLET: TYPE THHN IN RACEWAY. AFTER THE FIRST OUTLET BOX, APPROVED CABLE MAY BE USED.
43. FEEDERS SHALL BE MINIMUM #8 AWG; BRANCH CIRCUIT WIRING MINIMUM #12 AWG; CONTROL WIRING MINIMUM #14 AWG; UNLESS OTHERWISE INDICATED. FEEDER AND BRANCH CIRCUIT WIRING LARGER THAN #10 AWG SHALL BE STRANDED CONDUCTOR; #10 AWG AND SMALLER, STRANDED CONDUCTOR OR SOLID CONDUCTOR; CONTROL WIRING, STRANDED CONDUCTOR.
44. METAL CLAD CABLE TYPE MC WITH 600 VOLT THHN INSULATION AND INSULATED GROUND CONDUCTOR MAY BE USED FOR BRANCH CIRCUITS RUN IN HOLLOW SPACES, FISHED ABOVE EXISTING HUNG CEILINGS, FIXTURE CONNECTIONS AND ELSEWHERE AS PERMITTED BY THE NEC AND THE ENGINEER.
45. METAL CLAD CABLE TYPE MC/IG WITH 600 VOLT THHN INSULATION AND INSULATED GROUND CONDUCTOR MAY BE USED FOR COMPUTER POWER BRANCH CIRCUITS RUN IN HOLLOW SPACES, FISHED ABOVE EXISTING HUNG CEILINGS, AND ELSEWHERE AS PERMITTED BY THE NEC AND THE ENGINEER.
46. FIRE ALARM WIRING SHALL BE APPROVED FOR ITS APPLICATION; #14 AWG IN RACEWAY OR #14 AWG METAL CLAD CABLE FOR 120 VOLT CIRCUITS; #16 AWG FPLR OR FPLP FOR LOW VOLTAGE CIRCUITS IN NON AIR-HANDLING SPACES; AND #14 AWG FPLP FOR LOW VOLTAGE CIRCUITS IN AIR-HANDLING APPLICATIONS.
47. DO NOT INSTALL CONDUCTORS, WIRES OR CABLES OF ANY OTHER SYSTEM IN THE SAME RACEWAY OR CABLE WITH FIRE ALARM POWER SUPPLY CIRCUITS, NON-POWER LIMITED FIRE ALARM CIRCUITS OR POWER LIMITED FIRE ALARM CIRCUITS.
48. MAKE FLEXIBLE CONNECTIONS TO MOTORS AND OTHER ROTATING / VIBRATING EQUIPMENT.
49. TAPS AND SPLICES FOR BRANCH CIRCUITS AND FEEDERS SHALL BE MADE WITH AN INSULATED TERMINAL BY ILSCO, OR APPROVED EQUAL.
50. BRANCH CIRCUIT AND FEEDER TAPS SHALL BE FULL CIRCUIT SIZE UP TO THEIR OVERCURRENT PROTECTION DEVICE.
51. CONNECTIONS TO FIXTURE AND MOTOR LEADS #10 AWG AND SMALLER SHALL BE MADE WITH 3M "SCOTCHLOK" PRE-INSULATED SPRING PRESSURE CONNECTORS TYPES Y, R OR G OR APPROVED EQUAL.
52. STRANDED WIRING CONDUCTORS SHALL BE MADE UP TO SCREW TERMINALS WITH 3M, T&B OR PANDUIT LOCKING FORK CRIMP TERMINALS WITH NYLON INSULATED GRIPS.
53. UNLESS OTHERWISE INDICATED: ALL CONTROL, INTERLOCK AND TEMPERATURE CONTROL WIRING FOR HVAC EQUIPMENT AND SYSTEMS SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE MECHANICAL OR AUTOMATIC TEMPERATURE CONTROL CONTRACTOR; ALL CONTROL AND INTERLOCK WIRING FOR PLUMBING EQUIPMENT AND SYSTEMS SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR; ALL ELECTRICAL POWER WIRING TO CONTROL PANELS, MOTOR OPERATED DAMPERS, MOTOR STARTERS, MOTORS AND ALL MECHANICAL DEVICES THAT REQUIRE LINE VOLTAGE POWER SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR; ALL CONTROL AND INTERLOCK WIRING FROM AUTOMATIC TEMPERATURE CONTROL PANELS TO CONTROLLED OR INTERLOCKED DEVICES SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE MECHANICAL OR AUTOMATIC TEMPERATURE CONTROL CONTRACTOR; REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.
54. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL 120V CONTROL POWER WIRING FEEDERS AND CIRCUIT BREAKERS REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT. STARTERS AND POWER DISCONNECT SWITCHES SHALL BE BY THE MECHANICAL CONTRACTOR. REFER TO SPECIFICATION SECTIONS AND COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXTENT OF WORK REQUIRED.
55. WIRE EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES (UNIT EQUIPMENT) TO LOCAL AREA LIGHTING CIRCUIT SERVING THE RESPECTIVE AREA AHEAD OF SWITCH / DIMMER CONTROL.
56. WIRE ELECTRONIC TRAP PRIMERS TO NEAREST AVAILABLE 1P20A 120 VAC CIRCUIT UNLESS OTHERWISE INDICATED. REFER TO PLUMBING FLOOR PLANS AND SCHEDULES FOR LOCATIONS.
57. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION AND INSTALLATION DETAILS AND VERIFY ALL MANUFACTURER'S REQUESTS PRIOR TO ANY SUBMISSION FOR CONSIDERATION BY THE ARCHITECT, ENGINEER OR OWNER.
58. WIRING RUNS INDICATED ON THE DRAWINGS EXPRESS THE INTENT OF CIRCUIT ASSIGNMENT AND SWITCH CONTROL. ACTUAL WIRING METHODS USED SHALL BE SUITED FOR THE CONSTRUCTION OF THE BUILDING. REFER TO DRAWINGS OF OTHER TRADES AND EXISTING CONDITIONS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS. NUMBER OF CONDUCTORS IS NOT ALWAYS INDICATED
59. PROVIDE DISCONNECTS FOR ALL APPLIANCES, EQUIPMENT, MOTORS AND CONTROLLERS.
60. PROVIDE UN-SWITCHED 125 VOLT 20 AMP RECEPTACLE OUTLETS LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF ALL HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT UNLESS OTHERWISE NOTED.
61. ROUTE RACEWAYS THROUGH ROOF USING DEDICATED ROOF JACKS OR PITCH POCKETS. RUN RACEWAY ON ROOF ON DEDICATED ROOF SUPPORTS EIGHT INCHES HIGH MINIMUM.
62. PROVIDE SEISMIC RESTRAINTS AND ANCHORS FOR EQUIPMENT, FIXTURES, RACEWAY, ETC. AS REQUIRED BY INTERNATIONAL BUILDING CODE CHAPTER 16 - STRUCTURAL DESIGN AND CHAPTER 17 - STRUCTURAL TESTING AND INSPECTIONS AND AS SPECIFIED IN SPECIFICATION SECTION "SEISMIC CONTROLS".
63. ALL 125 VOLT, SINGLE PHASE, 15- AND 20-AMPERE SINGLE AND DUPLEX RECEPTACLES WHICH DO NOT SERVE A DEDICATED APPLIANCE AND ARE WITHIN A 6 FOOT RADIUS OF A SINK, ARE INSTALLED IN WET LOCATIONS, ARE INSTALLED IN BATHROOMS, ON ROOFS, OR OUTDOORS WITH DIRECT GRADE ACCESS, SHALL BE GROUND FAULT CIRCUIT INTERRUPTING TYPE WHERE AVAILABLE OR SHALL BE PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTING CIRCUIT BREAKERS.
64. DO NOT INSTALL EXPOSED WIRING, OR CABLE NOT UL LISTED FOR THE PURPOSE; WOOD SUPPORTS OR ANCHORAGES; NONMETALLIC CONDUIT, BOXES OR FITTINGS; OR VINYL, PLASTIC, NYLON, OR OTHER COMBUSTIBLE OR SMOKE PRODUCING IDENTIFICATION OR CONSTRUCTION MATERIALS IN THE SPACE ABOVE HUNG CEILINGS USED AS A PLENUM FOR THE RETURN OF ENVIRONMENTAL AIR.
65. TEST SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, CABLES, BUS DUCTS, SWITCHES, CIRCUIT BREAKERS, GROUNDING SYSTEM, GROUND FAULT PROTECTION SYSTEM, SURGE ARRESTORS AND TVSS DEVICES IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CURRENT EDITION OF THE INTERNATIONAL ELECTRICAL TESTING ASSOCIATION ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRIC POWER DISTRIBUTION EQUIPMENT AND SYSTEMS (NETA ATS). PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST LISTED.
66. PROVIDE TWO SETS OF OPERATION AND MAINTENANCE MANUALS, BOUND AND INDEXED, WITH INSTRUCTIONS FOR ALL ELECTRICAL DEVICES, EQUIPMENT, APPLIANCES AND SYSTEMS.
67. PROVIDE ONE SET OF REPRODUCIBLE CONTRACT DRAWINGS, OR DIGITAL DATA FILES USING SAME SOFTWARE PROGRAM, VERSION, AND OPERATING SYSTEM AS CONTRACT DOCUMENTS, THAT HAVE BEEN REVISED AND ANNOTATED TO REFLECT THE AS-BUILT CONDITIONS OF THE PROJECT.
68. DELIVER CERTIFICATES OF ELECTRICAL AND OTHER INSPECTIONS, OR COPIES THEREOF, TO THE OWNER AT THE COMPLETION OF THE PROJECT WITH COPIES TO THE ENGINEER.
69. GUARANTEE ALL WORK IN WRITING TO THE OWNER AGAINST ANY AND ALL DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE AND PERFORM ALL CORRECTIVE WORK AT NO COST TO THE OWNER.
70. A CONTRACTOR MAKING A BID FOR WORK ON THIS PROJECT IS MADE AWARE BY THIS NOTE THAT IT IS THE INTENT OF THE OWNER TO HAVE A COMPLETELY INSTALLED JOB. THE CONTRACTOR MAKING A BID FOR THIS WORK WARRANTS THAT HE WILL COMPLETE AND WIRE, PROVIDING ALL NECESSARY ELECTRICAL WORK FOR EQUIPMENT SHOWN AND / OR DETAILED ON ANY PROJECT DRAWINGS OR SPECIFICATIONS AND NOT JUST THOSE COMMONLY REFERRED TO AS A SINGLE TRADE DRAWING UNLESS SPECIFICALLY IDENTIFIED ELSEWHERE AS WORK OF OTHER TRADES. WHERE EQUIPMENT REQUIRING WIRING IS SPECIFIED OR SHOWN ON DRAWINGS OTHER THAN ELECTRICAL DRAWINGS, OR INDICATED, OR IMPLIED, SUCH AS ON SHOP DRAWINGS SUBMITTED LATER, THE CONTRACTOR CAN AND SHALL REQUEST DIRECTION REGARDING CIRCUIT SIZING PROTECTION AND ROUTING WHERE NECESSARY BUT SHALL UNDERSTAND ALL NECESSARY WORK TO COMPLETE THE INSTALLATION SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER OR PROJECT.
71. THE INSTALLATION OF ALL ELECTRICAL WORK INDICATED ON ALL ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS AND ANY SUBSEQUENT BULLETINS OR ADDENDA SHALL COMPLY WITH NEW JERSEY ADMINISTRATIVE CODE TITLE 6A.
72. THE SPACE ABOVE THE HUNG CEILING(S) IS USED AS A PLENUM FOR THE RETURN OF ENVIRONMENTAL AIR. DO NOT INSTALL EXPOSED WIRING, OR CABLE NOT UL LISTED FOR THE PURPOSE; WOOD SUPPORTS OR ANCHORAGES; NONMETALLIC CONDUIT, BOXES OR FITTINGS; OR VINYL, PLASTIC, NYLON, OR OTHER COMBUSTIBLE OR SMOKE PRODUCING IDENTIFICATION OR CONSTRUCTION MATERIALS IN THIS SPACE.
73. PRE-EXISTING CONDITIONS ARE EXEMPT PER NJAC 5:23-6.8(D)10. "EXISTING WORKING CLEARANCES, CLEAR SPACE, ACCESS AND ENTRANCE DIMENSIONS TO WORKING SPACES, ILLUMINATION, HEADROOM CLEARANCES, AND LOCATION OF OVERCURRENT PROTECTION DEVICES SHALL BE ALLOWED TO REMAIN WITHOUT MODIFICATION."
74. A FIRE ALARM SYSTEM MEETING CURRENT CODES IS NOT REQUIRED TO BE INSTALLED IN THE PORTIONS OF THE EXISTING BUILDING THAT ARE NOT BEING RENOVATED, ALTERED OR REMODELED. NJAC 5:23-6.8(B)4.
75. THE EXISTING FIRE ALARM CONTROL PANEL IS BEING UPGRADED AND THE ADDITION OF FIRE ALARM DEVICES IN THE NEW ADDITION AND RENOVATED AREAS OF THE EXISTING BUILDING WILL NOT INCREASE THE LOAD ON THE EXISTING FIRE ALARM SYSTEM. NJAC 5:23-6.5(C) AND 5:23-6.6(C).
76. PROVIDE HEAVY GAUGE WELDED WIRE MESH PROTECTIVE GUARDS ON ALL FIRE ALARM DEVICES, CLOCKS, LOUDSPEAKERS, CALL INITIATING DEVICES, EXIT LIGHTS, EMERGENCY LIGHTING UNITS AND BATTERY PACKS IN CAFETERIAS, MULTIPURPOSE ROOMS, GYMNASIUMS, WEIGHT ROOMS, LOCKER ROOMS, BOILER ROOMS, MECHANICAL ROOMS, LOADING DOCKS, RECEIVING AREAS, PIPE SPACES, PIPE TUNNELS, STAGES, STORAGE ROOMS, SHOPS AND SHAFTS, ON THE BUILDING EXTERIOR, AND OTHER SPACES AND AREAS WHERE [DEVICES ARE] SUBJECT TO DAMAGE OR ACCIDENTAL OPERATION FROM SPORTS, PHYSICAL ACTIVITIES, GENERAL HOUSEKEEPING, MAINTENANCE, OR THE MOVEMENT OF SUPPLIES, MATERIALS, FURNITURE AND EQUIPMENT.
77. ALL NEW CONSTRUCTION AND RENOVATION WORK SHOWN ON THE DRAWINGS AND CONTAINED IN THE SPECIFICATIONS (UNLESS OTHERWISE NOTED AS "NOT IN CONTRACT" OR "N.I.C.") IS THE RESPONSIBILITY OF THE SINGLE PRIME GENERAL CONTRACTOR. REFERENCES TO SPECIFIC TRADE SUBCONTRACTORS (PLUMBING, MECHANICAL, ELECTRICAL, ETC.) ARE PROVIDED TO ASSIST THE SINGLE PRIME GENERAL CONTRACTOR IN THE DELINEATION OF SUBCONTRACTOR WORK. THE SINGLE PRIME GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DELINEATION OF ITS SUBCONTRACTORS' WORK AND THEREFORE SHALL NOT RELY ON SPECIFIC TRADE REFERENCES SHOWN ON THE CONTRACT DOCUMENTS.
78. ELECTRICAL CONTRACTOR TO CAREFULLY REMOVE AND STORE EXISTING HUNG CEILING TILES INCLUDING “THE LAY-IN ACOUSTIC CEILING TILES, SUPPORT GRID AND HANGERS” AS REQUIRED TO FACILITATE INSTALLATION OF THE NEW WORK IN THE AFFECTED AREAS. PRIOR TO CEILING REMOVALS THE ELECTRICAL CONTRACTOR SHALL TEMPORARILY SUPPORT ALL EXISTING LIGHT FIXTURES, SENSORS OR OTHER EXISTING WIRED COMPONENTS AS MAY BE REQUIRED TO FACILITATE CEILING REMOVAL. AFTER WORK IS COMPLETED, CONTRACTOR SHALL RE-INSTALL THE EXISTING CEILING GRID AND EXISTING ACOUSTICAL TILES. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED GRID, TILE AND/OR FIXTURE THAT MIGHT OCCUR DURING DEMOLITION AND/OR RE-INSTALLATION OF THE EXISTING CEILING. NEW GRID/TILES AND FIXTURE TO MATCH EXISTING. PATCH AND REPAIR ALL SURFACES DAMAGED TO MATCH EXISTING ADJACENT FINISH.
79. CONTRACTOR SHALL PROVIDE AND INSTALL A LOCAL LOCKABLE DISCONNECT SWITCH BY EACH PIECE OF MOTORIZED OR PACKAGED EQUIPMENT. DISCONNECT AMPACITY RATING SHALL AT LEAST MATCH THAT OF THE UPSTREAM CIRCUIT BREAKER PROTECTING THE EQUIPMENT. INDOOR DISCONNECTS SHALL BE NEMA 1 TYPE AND OUTDOOR DISCONNECTS SHALL BE BE NEMA 3R TYPE.
80. IN ALL AREAS WHERE WORK IS BEING PERFORMED UNDER THIS CONTRACT, CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING ALL EXISTING ELECTRICAL DEVICES AND WIRING/CONDUIT ABOVE THE EXISTING CEILINGS, PER NEC. ALL TELE / DATA AND FIRE ALARM WIRING SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE WITH J-HOOKS AND NOT TIE-WRAPPED TO CONDUITS OR MECHANICAL PIPING.. ALL EXISTING POWER WIRING/CONDUIT AND JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED TO THE STRUCTURE AND NOT TO THE CEILING GUIDE WIRES, HVAC DUCTS, PIPING, ETC. PROVIDE ALL REQUIRED SUPPORTS AND ACCESSORIES AS REQUIRED PER NEC.
81. CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY CONFLICT DISCOVERED BEFORE PERFORMING ANY WORK RELATED TO SUCH CONFLICT.
82. LIGHTING CONTROLS NOTE: ALL LIGHTING CONTROLS PLANS AND DIAGRAMS ARE TO SHOW DESIGN INTENT. FINAL BILL OF MATERIALS TO BE PROVIDED DURING SUBMITTAL PHASE BY THE CONTRACTOR AND MANUFACTURERS REPRESENTATIVE.
83. OWNER LOW VOLTAGE SYSTEMS VENDOR:
    INSTRATA - MR. MIKE SCHAFFER
    MIKE.SCHAFFER@INSTRATA.COM
    609-586-8800 (OFFICE)
    856-430-1409 (MOBILE)
    572 WHITEHEAD ROAD, SUITE 201
    TRENTON, NEW JERSEY 08619
84. OWNER ACCESS CONTROL & SECURITY VENDOR:
    DYNSECURITYPRO.COM - MR. BRUCE PULLEN
    BPULLEN@DYNSECURITYPRO.COM
    609-610-9654 (MOBILE)
    8 DOWNING COURT
    MIDDLETOWN, NEW JERSEY 07748
85. FIRE ALARM VENDOR:
    SAL ELECTRIC - MR. MIKE QUCHUKASHVILI
    201-798-4406
    83 FLEET STREET
    JERSEY CITY, NEW JERSEY 07306

DEMOLITION NOTES:

1. DEMOLITION SHALL INCLUDE THE REMOVAL OF ALL ASSOCIATED WIRING, CONDUIT, DISCONNECT SWITCHES, ETC UNLESS SPECIFICALLY NOTED OTHERWISE.
2. WHERE WIRING/CONDUIT SERVING AN EXISTING PIECE OF EQUIPMENT RUNS BELOW GRADE, CONTRACTOR SHALL REMOVE ALL WIRING BACK TO THE SOURCE AND CUT CONDUIT FLUSH WITH EXISTING FLOOR. PROVIDE A WATERPROOF SEAL AROUND ALL OPENINGS
3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
5. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL LIGHT FIXTURES COMPLETE WITH ASSOCIATED WIRING, CONDUITS, ETC. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD.
6. ALL UNUSED OUTLET BOXES OR CAPPED FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS.
7. EXISTING PANEL DIRECTORIES AFFECTED BY THE WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.
8. PORTIONS OF FEEDER RUNS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS, CABLE TYPE, CONDUCTOR AMPACITY, CONDUIT SIZES, ETC.
9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING, DISPOSAL, AND ASSOCIATED COSTS OF ALL MATERIAL REMOVED FROM FIXTURES, DURING THIS CONTRACT, IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND/OR REGULATIONS.
10. DISCONNECT AND REMOVE FROM THE PREMISES, OR STORE ON THE PREMISES IF REQUESTED BY THE OWNER, ALL EQUIPMENT AND LIGHT FIXTURES, AND SUPPORTING DEVICES REMOVED AS A RESULT OF THIS WORK.
11. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING CEILING SYSTEM INCLUDING BUT NOT LIMITED TO GRID, TILES, AND SUPPORT AND SHALL REPLACE IN KIND ANY DAMAGED CEILING COMPONENTS.
12. PRIOR TO RELOCATION OR DEMOLITION OF ANY LIGHTING FIXTURES, ALL CONTROLLED LIGHTING FIXTURES SHALL BE THOROUGHLY DECOMMISSIONED FROM THE EXISTING LIGHTING CONTROL SYSTEMS. REFER TO EXISTING SYSTEM MANUFACTURER'S WRITTEN INSTALLATION AND DECOMMISSIONING INSTRUCTIONS.

ONE-LINE DIAGRAM DEVICE LEGEND

SYMBOLS	DESCRIPTION
PANEL PP-X MCB 120/208V 225A	ELECTRICAL PANELBOARD
Y X	DRY TYPE TRANSFORMER "X" DENOTES VOLTAGE "Y" DENOTES TRANSFORMER SIZE (KVA)
X Y	CIRCUIT BREAKER "X" DENOTES SIZE OF CIRCUIT BREAKER (AMPS) "Y" DENOTES # OF POLES
X Y	FUSE "X" DENOTES SIZE OF FUSE (AMPS) "Y" DENOTES QTY OF FUSES
X Y	ENCLOSED CIRCUIT BREAKER "X" DENOTES SIZE OF CIRCUIT BREAKER (AMPS) "Y" DENOTES # OF POLES
X	NON-FUSED DISCONNECT SWITCH "X" DENOTES FRAME SIZE OF SWITCH (AMPS)
X Y Z	FUSED DISCONNECT SWITCH "X" DENOTES FRAME SIZE OF SWITCH (AMPS) "Y" DENOTES SIZE OF FUSE (AMPS) "Z" DENOTES QTY OF FUSES
	CURRENT TRANSFORMER (CT)
M	ELECTRICAL METER
	UTILITY TRANSFORMER

MOUNTING HEIGHTS

HEIGHT	DESCRIPTION
10'-0"	EMERGENCY BATTERY UNITS (OR 1'-0" BELOW CEILING)
90" TO 6" BELOW CLG	FIRE ALARM AUDIBLE ALARM SIGNALS
7'-6" TO 8'-0"	FIRE ALARM COMBINATION ALARM SIGNALS
7'-0" TO 8'-0"	FIRE ALARM VISUAL SIGNALS
6'-6"	TOP OF ELECTRICAL PANEL BOARDS (LIGHTING OR POWER)
6'-0"	TOP OF HIGHEST ELECTRICAL DISCONNECT SWITCH OR STARTER
4'-0"	TOP OF WALL MOUNTED DEVICES SUCH AS LIGHT SWITCHES, MANUAL MOTOR STARTERS, THERMOSTATS, TELEPHONE/INTERCOM HANDSETS, FIRE ALARM PULLSTATIONS, ETC.
4'-0"	TOP OF WALL MOUNTED WIREMOLD (U.N.O.)
2'-0"	BOTTOM OF RECEPTACLES IN MECHANICAL ROOMS, REPAIR GARAGES, AND EXTERIOR OF BUILDING.
1'-6"	BOTTOM OF RECEPTACLES, TELEPHONE/TELEDATA OUTLETS, TELEVISION JACKS, ETC.
0'-0"	FINISHED FLOOR ELEVATION.

IMPORTANT NOTE:

THE CONTRACTOR SHALL PROVIDE JUNCTION BOXES, CONDUIT AND DRAG LINES FOR USE BY THE OWNER'S VENDOR(S) FOR THE FOLLOWING SYSTEMS: TELE-DATA, INTERCOM, SECURITY, CARD ACCESS, AND VIDEO SURVEILLIENCE. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL LOW VOLTAGE SYSTEM DEVICES WITH THE OWNERS VENDOR PRIOR TO INSTALLATION OF BACKBOXES, CONDUIT AND WIRING.

FIRE ALARM DEVICE LEGEND

SYMBOLS	DESCRIPTION
F	FIRE ALARM SPEAKER / STROBE
F	FIRE ALARM STROBE
F	CEILING MOUNTED FIRE ALARM SPEAKER / STROBE
F	FIRE ALARM MANUAL PULL STATION
FACP	FIRE ALARM CONTROL PANEL
FANN	FIRE ALARM ANNUNCIATOR PANEL
SD	DUCT SMOKE DETECTOR
S S A	CEILING MOUNTED SMOKE DETECTOR. "A" INDICATES MOUNTED ABOVE CEILING.
R R A	CEILING MOUNTED RATE OF RISE HEAT DETECTOR, "A" INDICATES MOUNTED ABOVE CEILING.
H H A	CEILING MOUNTED HEAT DETECTOR, 135° UON. "A" INDICATES MOUNTED ABOVE CEILING.
H 195 H A 195	CEILING MOUNTED HEAT DETECTOR, 195° UON. "A" INDICATES MOUNTED ABOVE CEILING.
CO	CARBON MONOXIDE DETECTOR
SC	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
BD	BEAM DETECTOR
DH	DOOR HOLDER
TS	SPRINKLER SYSTEM TAMPER SWITCH
FS	SPRINKLER SYSTEM FLOW SWITCH
MM	ADDRESSABLE MONITOR MODULE
CM	ADDRESSABLE CONTROL MODULE
S_{KL}	REMOTE TEST KEY SWITCH AND INDICATING LIGHT FOR SMOKE DUCT DETECTOR.

LOW VOLTAGE DEVICE LEGEND

SYMBOLS	DESCRIPTION
∇	DATA COMMUNICATIONS OUTLET: PROVIDE 2-GANG JUNCTION BOX AND TWO (2) 3/4" CONDUITS UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR. MOUNT 18" AFF.
∇	DATA COMMUNICATIONS OUTLET: PROVIDE 2-GANG JUNCTION BOX AND TWO (2) 3/4" CONDUITS UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR. MOUNTED AT HEIGHT AS SHOWN ON PLAN OR AS DIRECTED BY THE ARCHITECT.
∇	TELEPHONE OUTLET: PROVIDE 1-GANG JUNCTION BOX AND ONE (1) 3/4" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR. MOUNT 18" AFF.
∇	TELEPHONE OUTLET: PROVIDE 1-GANG JUNCTION BOX AND ONE (1) 3/4" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR. MOUNTED AT HEIGHT AS SHOWN ON PLAN OR AS DIRECTED BY THE ARCHITECT.
H J	HDMI OUTLET: PROVIDE 2-GANG JUNCTION BOX AND ONE (1) 1 1/4" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR. MOUNTED AT HEIGHT AS SHOWN ON PLANS OR AS DIRECTED BY THE ARCHITECT.
S	SURFACE MOUNTED SPEAKER BY VENDOR. PROVIDE SINGLE GANG BOX, ONE (1) 3/4" EMPTY CONDUIT AND BLANK COVER PLATE.
C	SURFACE MOUNTED CLOCK BY VENDOR. PROVIDE SINGLE GANG BOX, ONE (1) 3/4" EMPTY CONDUIT AND BLANK COVER PLATE.
C S	COMBINATION CLOCK/SPEAKER BY VENDOR. PROVIDE SINGLE GANG BOX, ONE (1) 3/4" EMPTY CONDUIT AND BLANK COVER PLATE.
S	SPEAKER, WEATHERPROOF EXTERIOR WALL MOUNTED INTERCOM SYSTEM SPEAKER: PROVIDE 2-GANG JUNCTION BOX WITH 3/4" CONDUIT AND PULLSTRING UP TO ACCESSIBLE CEILING FOR USE BY OWNER'S VENDOR.
S	CEILING MOUNTED INTERCOM OR GYM SPEAKER LOCATION. SHOWN ON PLANS FOR REFERENCE ONLY.
	EXTERIOR CCTV CAMERA BY OWNER: PROVIDE 1-GANG JUNCTION BOX AND 1" CONDUIT THROUGH EXTERIOR WALL TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR.
CR	CARD READER SYSTEM LOCATION: FURNISHED AND INSTALLED BY THE OWNER'S VENDOR. SHOWN ON PLANS FOR REFERENCE ONLY.
	CEILING MOUNTED DATA COMMUNICATIONS OUTLET: PROVIDE 1-GANG JUNCTION BOX AND 3/4" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR.
	WIRELESS ACCESS POINT CEILING MOUNTED COMMUNICATIONS OUTLET: FURNISHED AND INSTALLED BY THE OWNER'S VENDOR. SHOWN ON PLANS FOR REFERENCE ONLY.
M	MICROPHONE, WALL MOUNTED GYM SOUND SYSTEM: REFER TO RISER DIAGRAM ON DETAIL SHEET.
AUD S R AUD	LOCAL AUDIO STATION, CEILING MOUNTED SPEAKER AND REMOTE MICROPHONE WITH VOLUME CONTROL & SOURCE SET BY OWNER'S VENDOR.
AUD	PROVIDE ONE (1) 2-GANG JUNCTION BOX WITH 1-1/4" CONDUIT, AND ONE (1) 2-GANG JUNCTION BOX WITH ONE (1) 1" CONDUIT BOTH TO ABOVE THE SUSPENDED CEILING.
R AUD	PROVIDE ONE (1) 2-GANG JUNCTION BOX WITH 1-1/4" CONDUIT, AND ONE (1) 2-GANG JUNCTION BOX WITH ONE (1) 1" CONDUIT BOTH TO ABOVE THE SUSPENDED CEILING.
TV	WALL MOUNTED TV OUTLET: PROVIDE 1-GANG JUNCTION BOX AND ONE (1) 1" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR. MOUNT 18" AFF.
DO	DOOR OPERATOR WITH TIE-IN TO ACCESS CONTROL SYSTEM AND 10 SECOND DELAY: PROVIDE 1-GANG JUNCTION BOX AND ONE (1) 1" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR.
INT	PUSHBUTTON RELEASE STATION: PROVIDE 1-GANG JUNCTION BOX AND ONE (1) 1" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR.
DI	DOOR INTERCOM WITH DOOR RELEASE: PROVIDE 1-GANG JUNCTION BOX AND ONE (1) 1" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR.
DIS	DOOR INTERCOM STATION: PROVIDE 1-GANG JUNCTION BOX AND ONE (1) 1" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR USE BY OWNER'S VENDOR.

POWER DEVICE LEGEND

SYMBOLS	DESCRIPTION
	SURFACE MOUNTED PANELBOARD, POWER AND LIGHTING
	RECESSED PANELBOARD, POWER AND LIGHTING
	HOMERUN TO PANELBOARD
J J	JUNCTION BOX - WALL MOUNTED
J	JUNCTION BOX - CEILING MOUNTED
M	MOTOR
X/Y/Z	DISCONNECT SWITCH. "X" INDICATES SWITCH SIZE, "Y" INDICATES NUMBER OF POLES, "Z" INDICATES FUSE SIZE (NF = NON-FUSED).
S_M	MOTOR RATED DISCONNECT SWITCH.

WIRING DEVICE LEGEND

SYMBOLS	DESCRIPTION
X X	NEMA 5-20R TAMPER RESISTANT SIMPLEX RECEPTACLE. "X" INDICATES CIRCUIT NUMBER. SYMBOL WITH LINE THRU IT DENOTES MOUNTED ABOVE 18". COORDINATE HEIGHT WITH ARCH DRAWINGS.
X X	NEMA 5-20R TAMPER RESISTANT DUPLEX RECEPTACLE. "X" INDICATES CIRCUIT NUMBER. SYMBOL WITH LINE THRU IT DENOTES MOUNTED ABOVE 18". COORDINATE HEIGHT WITH ARCH DRAWINGS.
X X	NEMA 5-20R TAMPER RESISTANT DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER. "X" INDICATES CIRCUIT NUMBER. SYMBOL WITH LINE THRU IT DENOTES MOUNTED ABOVE 18". COORDINATE HEIGHT WITH ARCHITECTURAL DRAWINGS.
X X	NEMA 5-20R TAMPER RESISTANT DUPLEX RECEPTACLE WITH TWO INTEGRAL USB CHARGING PORTS. "X" INDICATES CIRCUIT NUMBER. SYMBOL WITH LINE THRU IT DENOTES MOUNTED ABOVE 18". COORDINATE HEIGHT WITH ARCHITECTURAL DRAWINGS.
X	NEMA 5-20R TAMPER RESISTANT DOUBLE DUPLEX RECEPTACLE. "X" INDICATES CIRCUIT NUMBER. COORDINATE HEIGHT WITH ARCHITECTURAL DRAWINGS.
X	NEMA 5-20R DOUBLE DUPLEX RECEPTACLE PROTECTED BY A CIRCUIT BREAKER WITH GROUND FAULT INTERRUPTER. "X" INDICATES CIRCUIT NUMBER. COORDINATE HEIGHT WITH ARCHITECTURAL DRAWINGS.
X X	SPECIAL RECEPTACLE. COORDINATE RECEPTACLE TYPE WITH THE PLUG ON THE EQUIPMENT UTILIZING THIS RECEPTACLE AND THE CIRCUIT BREAKER PROTECTING IT. "X" INDICATES CIRCUIT NUMBER. SYMBOL WITH LINE THRU IT DENOTES MOUNTED ABOVE 18". COORDINATE HEIGHT WITH ARCHITECTURAL DRAWINGS
F	RECESSED FLOORBOX FITTING WITH TWO (2) DUPLEX RECEPTACLES AND PROVISIONS FOR DATA AND HDMI CABLES. LEGRAND EVOLUTION #EFB45-OG WITH FLUSH METAL #EFB45-CT COVER, OR APPROVED EQUAL. FINISH AS SELECTED BY ARCHITECT.
X	LIGHTING FIXTURE TYPE: SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

ABBREVIATIONS

A	AMPERE	GND, G	GROUND
AFF	ABOVE FINISHED FLOOR	IC	INTERRUPTING CAPACITY
AFG	ABOVE FINISHED GRADE	IG	ISOLATED GROUND
C	CONDUIT(S)	I/L	INTERLOCKED
CB	CIRCUIT BREAKER	MC	MECHANICAL CONTRACTOR
CH	COUNTER HEIGHT	MOD	MOTOR OPERATED DAMPER
CO	CONDUIT ONLY	NIC	NOT IN CONTRACT
CT	CURRENT TRANSFORMER	NL	NIGHT LIGHT
CU	COPPER	NTS	NOT TO SCALE
EC	ELECTRICAL CONTRACTOR	RGS	RIGID GALVANIZED STEEL
EG	EQUIPMENT GROUND	SPD	SURGE PROTECTIVE DEVICE
EM	EMERGENCY	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EMT	ELECTRICAL METALLIC TUBING	T/C	TIME CLOCK
ETR	EXISTING TO REMAIN	UON	UNLESS OTHERWISE NOTED
EWC	ELECTRIC WATER COOLER	V	VOLTS
FA	FIRE ALARM	W	WALL MOUNTED
FBO	FURNISHED BY OTHERS	WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER		

SYMBOL LIST NOTES

1. SYMBOLS ARE INDICATED FOR GENERAL REFERENCE ONLY. THE PRESENCE OF A SYMBOL DOES NOT INDICATE ITS USE ON THIS PROJECT. REFER TO PLAN DRAWINGS FOR SPECIFIC SYMBOLS USED.
2. ALL WIRING DEVICES SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER ON DEVICE PLATES. LABELS SHALL BE CLEAR SELF-ADHESIVE WITH BLACK LETTERING UNLESS OTHERWISE INDICATED OR DIRECTED.

APPLICABLE CODES:

ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST CODES AND SUBCODES AS ADOPTED BY THE STATE OF NEW JERSEY:

- NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC)
- REHABILITATION SUBCODE 5:23-6
- ADMINISTRATIVE CODE: TITLE 6
- 2021 INTERNATIONAL BUILDING CODE - NJ EDITION
- 2020 NATIONAL ELECTRICAL CODE
- 2016 NFPA 13
- 2019 ENERGY CODE - ASHRAE STANDARD 90.1
- REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street, Princeton, NJ 08540

Project Number
5516A2

Project Date
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Checked By
AHG

Drawn By
AF / AMP

Scale
AS NOTED

Drawing Name
ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS

Revisions

No.	Date	Description

Drawing Number
E1.0

LIGHT FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPS	DRIVER		VOLTS	TOTAL WATTAGE	MOUNTING
						TYPE	QTY			
A	▤	2X4 RECESSED LED HIGH PERFORMANCE RECESSED FIXTURE WITH WHITE HOUSING, ANGLED NARROW RAIL, DIFFUSE CENTER, AND 0-10V DIMMING.	FINELITE	HPR-SL-ANR-2X4-B-835-DCO-96LG-UNV-SC-FC-10%-CX-96LG	INCLUDED	LD	1	UNV	30.6	RECESSED
AE	◪	2X4 RECESSED LED HIGH PERFORMANCE RECESSED FIXTURE WITH WHITE HOUSING, ANGLED NARROW RAIL, DIFFUSE CENTER, AND 0-10V DIMMING. PROVIDE EMERGENCY BATTERY PACK.	FINELITE	HPR-SL-ANR-2X4-B-835-DCO-96LG-UNV-SC-FC-10%-CX-96LG-EM	INCLUDED	LD	1	UNV	30.6	RECESSED
A1A	▤	2X2 RECESSED LED HIGH PERFORMANCE RECESSED FIXTURE WITH WHITE HOUSING, ANGLED NARROW RAIL, DIFFUSE CENTER, AND 0-10V DIMMING.	FINELITE	HPR-SL-ANR-2X2-S-835-DCO-96LG-UNV-SC-FC-10%-CX-96LG	INCLUDED	LD	1	UNV	23.7	RECESSED
D	○	6" ROUND OPEN REFLECTOR DOWNLIGHT WITH REGRESSED LENS, WHITE TRIM, AND 0-10V DIMMING.	HE WILLIAMS	4DR-TL-L20/835-DIM-UNV-RW-OF-CS-WH-MWT-AM-N-XX	INCLUDED	LD	1	UNV	19.8	RECESSED
DE	●	6" ROUND OPEN REFLECTOR DOWNLIGHT WITH REGRESSED LENS, WHITE TRIM, AND 0-10V DIMMING. PROVIDE EMERGENCY BATTERY PACK.	HE WILLIAMS	4DR-TL-L20/835-EM/10W-DIM-UNV-RW-OF-CS-WH-MWT-AM-N-XX	INCLUDED	LD	1	UNV	19.8	RECESSED
H8	▭	8'-0" LINEAR LED LIGHTING FIXTURE WITH WHITE HOUSING PAINTED AFTER FABRICATION, CURVED FROSTED ACRYLIC LENS, SURFACE, WALL OR PENDANT MOUNTED AS SHOWN ON THE PLANS.	COLUMBIA	MPS8-35LW-C-W-ED-U-PAF	INCLUDED	L	1	UNV	54.8	PENDANT
H8E	▭	8'-0" LINEAR LED LIGHTING FIXTURE WITH WHITE HOUSING PAINTED AFTER FABRICATION, CURVED FROSTED ACRYLIC LENS, SURFACE, WALL OR PENDANT MOUNTED AS SHOWN ON THE PLANS.	COLUMBIA	MPS8-35LW-C-W-ED-U-PAF-ELL14	INCLUDED	L	1	UNV	54.8	PENDANT
J4	▭	2.5" WIDE RECESSED LINEAR LENSED LED LIGHTING FIXTURE, WHITE HOUSING WITH FLUSH DIFFUSER AND 0-10V DIMMING. LENGTH 4'-0".	FINELITE	HPX-R-D-4FT-S-835-F-120V-SC-FC10%-(CLG)	INCLUDED	L	1	120V	12.8	RECESSED
J8	▭	2.5" WIDE RECESSED LINEAR LENSED LED LIGHTING FIXTURE, WHITE HOUSING WITH FLUSH DIFFUSER AND 0-10V DIMMING. LENGTH 8'-0".	FINELITE	HPX-R-D-8FT-S-835-F-120V-SC-FC10%-(CLG)	INCLUDED	L	1	120V	25.6	RECESSED
J8E	▬	2.5" WIDE RECESSED LINEAR LENSED LED LIGHTING FIXTURE, WHITE HOUSING WITH FLUSH DIFFUSER AND 0-10V DIMMING. LENGTH 8'-0".	FINELITE	HPX-R-D-8FT-S-835-F-120V-SC-FC10%-(CLG)-EM	INCLUDED	L	1	120V	25.6	RECESSED
TL	▲▲▲▲▲	EXTRUDED ALUMINUM LIGHTING TRACK, LENGTH AS SHOWN ON THE PLANS WITH LED TRACK HEADS, QUANTITY AS SHOWN. COLOR AS SELECTED BY THE ARCHITECT.	CORONET	J-TRACK WITH POINT MED LED TRACK HEADS. SEE NOTE #5.	INCLUDED	LD	1	120V	24W PER TRACK HEAD	SURFACE
X	⊗ ⊗ ⊗ ⊗	UNIVERSAL SURFACE MOUNTED EDGE LIT EXIT SIGN WITH INTEGRAL BATTERY PACK, SELF- DIAGNOSTICS, RED OR GREEN LETTERS, SATIN ALUMINUM TRIM, CEILING OR WALL MOUNTED, WITH OR WITHOUT DIRECTIONAL ARROWS AS SHOWN ON THE PLANS.	COMPASS	CELUNE	INCLUDED	L	1	UNV	3.4	SURFACE

NOTES:

1. VERIFY ALL CEILING TYPES AND OPERATING VOLTAGES PRIOR TO ORDERING FIXTURES.
2. ALL FIXTURE FINISHES AND COLOR SELECTIONS SHALL BE AS SELECTED BY THE ARCHITECT.
3. COORDINATE THE HEIGHT OF ALL SUSPENDED FIXTURES WITH THE OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
4. COORDINATE LAMP COLORS (30K, 35K OR 40K) WITH THE ARCHITECT PRIOR TO ORDERING FIXTURES.
5. PROVIDE ALL REQUIRED TRACK ACCESSORIES AND COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.

DRIVER TYPES

CW	COLD WEATHER
L	LED DRIVER
LD	LED DIMMING DRIVER

EMERGENCY FIXTURES

◪ ◪ ▬ ▭ ●

FIXTURES DESIGNATED WITH "EM", A "1/2 SHADE" OR "FULL SHADE" SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK SUITABLE TO POWER THE ENTIRE FIXTURE (OR MINIMUM 1300 LUMENS) FOR 90 MINUTES.

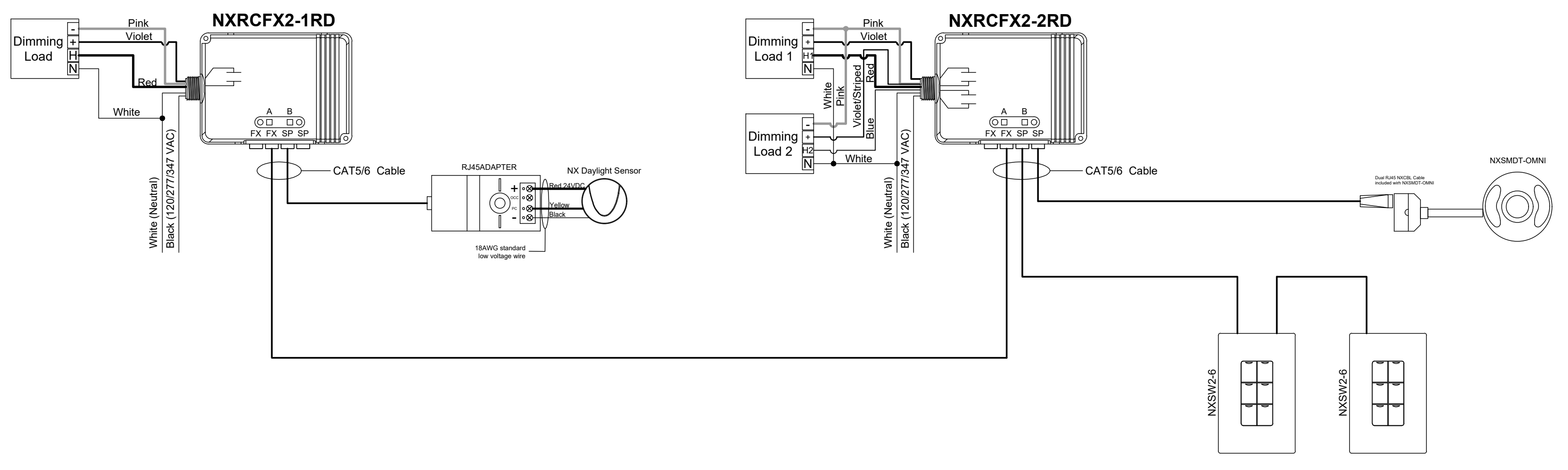
ALL EXIT SIGNS SHALL BE PROVIDED WITH AN INTEGRAL EMERGENCY BATTERY PACK TO POWER THE FIXTURE FOR 90 MINUTES MINIMUM.

SENSOR SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	MOUNTING	NOTES
OS	OCCUPANCY SENSOR - CORNER MOUNT	HUBBELL	VENDOR TO CONFIRM	CORNER CEILING	DIGITAL DUAL TECHNOLOGY
OS	OCCUPANCY SENSOR - 360 DEGREE	HUBBELL	VENDOR TO CONFIRM	CEILING	DIGITAL DUAL TECHNOLOGY
VS	VACANCY SENSOR - CORNER MOUNT	HUBBELL	VENDOR TO CONFIRM	CORNER CEILING	DIGITAL DUAL TECHNOLOGY
VS	VACANCY SENSOR - 360 DEGREE	HUBBELL	VENDOR TO CONFIRM	CEILING	DIGITAL DUAL TECHNOLOGY
S_{VS} S_{OS}	DUAL TECHNOLOGY WALL SWITCH VACANCY OR OCCUPANCY SENSOR	HUBBELL	VENDOR TO CONFIRM	WALL	LINE VOLTAGE
DS	DIMMING PHOTO SENSOR	HUBBELL	VENDOR TO CONFIRM	CEILING	
S	DIGITAL WALL SWITCH	HUBBELL	VENDOR TO CONFIRM	WALL	
S_D	DIGITAL WALLBOX DIMMING SWITCH	HUBBELL	VENDOR TO CONFIRM	WALL	
RC	DIGITAL DIMMING - ON/OFF ROOM CONTROLLER	HUBBELL	VENDOR TO CONFIRM	ABOVE CEILING	

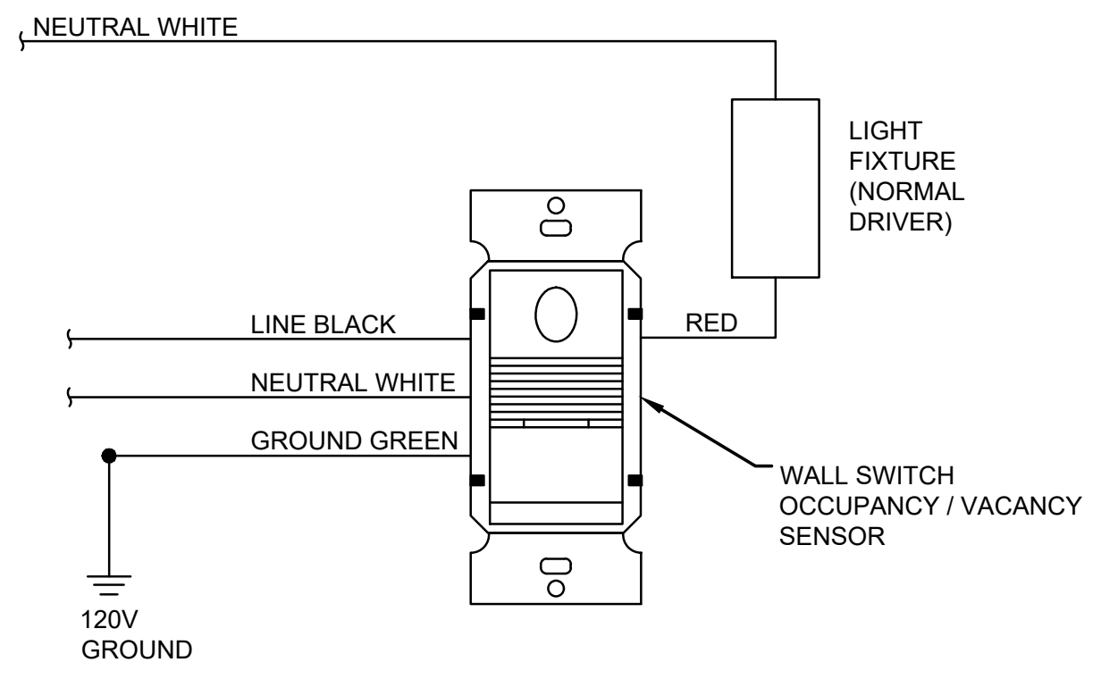
GENERAL NOTES:

1. REFER TO ELECTRICAL SPECIFICATIONS AND ADDITIONAL REQUIREMENTS WHICH MAY NOT NECESSARILY BE REFLECTED IN CATALOG NUMBER AND/OR DESCRIPTION IN THE SCHEDULE.
2. CONTRACTOR SHALL PROVIDE THE APPROPRIATE NUMBER OF ROOM CONTROLLERS FOR THE PROJECT. COORDINATE WITH THE MANUFACTURER FOR THE CORRECT QUANTITY
3. CONTRACTOR SHALL PROVIDE 4"X4" JUNCTION BOX AS REQUIRED. COORDINATE WITH SYSTEM SHOP DRAWINGS.



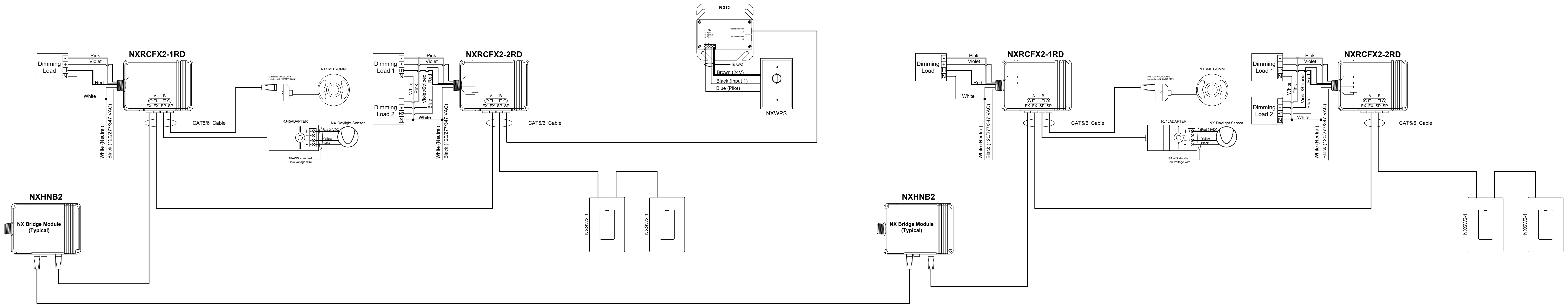
TYPICAL NX LIGHTING CONTROL DETAIL

NOT TO SCALE
REFER TO FLOOR PLANS FOR QUANTITIES AND TYPES


NEUTRAL WHITE
LIGHT FIXTURE (NORMAL DRIVER)
LINE BLACK
RED
NEUTRAL WHITE
GROUND GREEN
WALL SWITCH OCCUPANCY / VACANCY SENSOR
120V GROUND

WALL SWITCH VACANCY SENSOR DETAIL

NOT TO SCALE



TYPICAL NX LIGHTING CONTROL WITH PARTITION SENSOR DETAIL

NOT TO SCALE
REFER TO FLOOR PLANS FOR QUANTITIES AND TYPES

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
AHG

Drawn By
AF / AMP

Scale
AS NOTED

Drawing Name
ELECTRICAL LIGHTING FIXTURE SCHEDULE & DETAILS

Revisions

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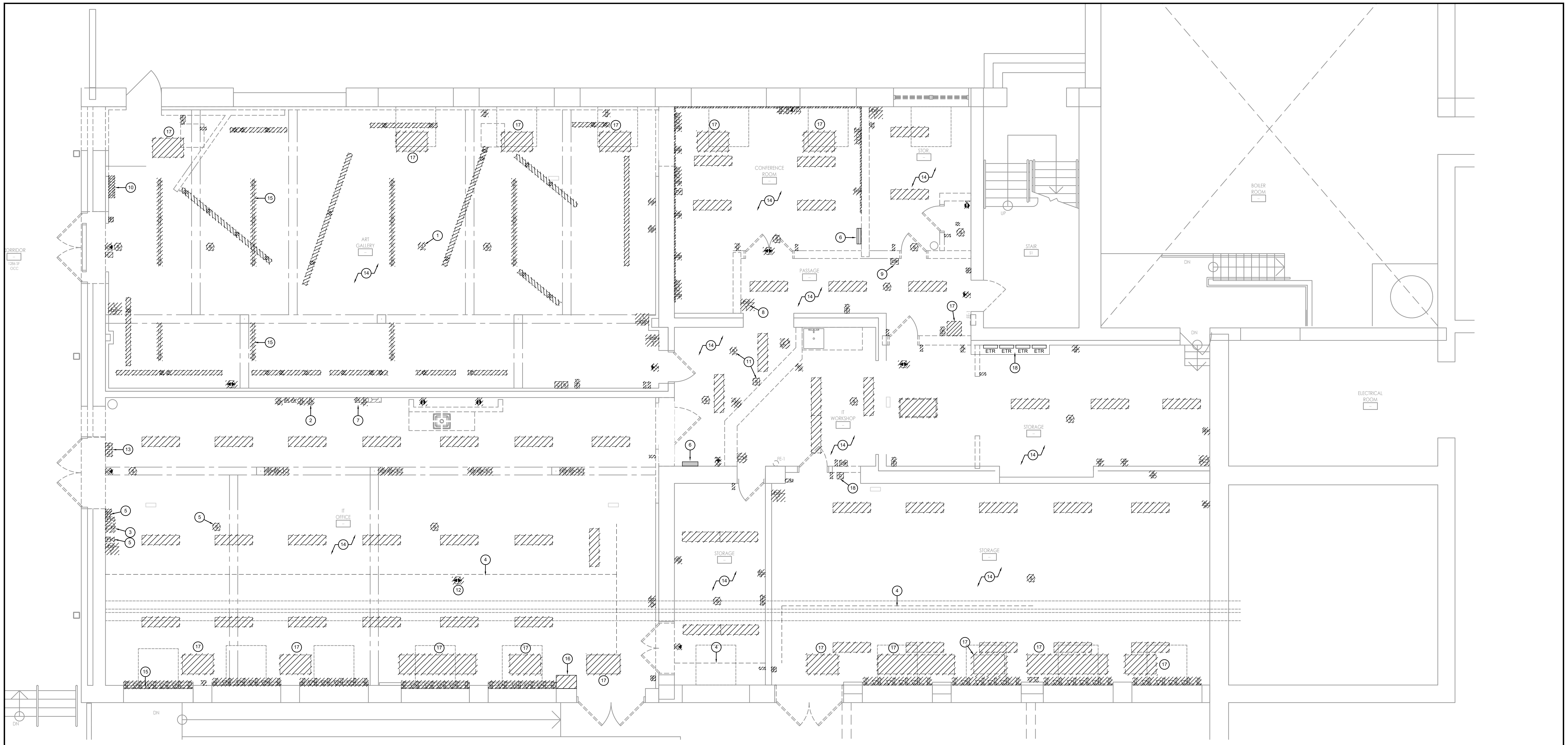


GROUND FLOOR DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. ALL EXISTING WIRING DEVICES AND LIGHTING FIXTURES SHALL BE EXISTING TO REMAIN UNLESS SHOWN FOR DEMOLITION OR INDICATED TO BE RELOCATED ON THIS DRAWING AND ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION AREAS.
2. REFER TO NEW WORK PLANS FOR NEW LOCATIONS OF RELOCATED WIRING DEVICES, LIGHTING FIXTURES, COMMUNICATIONS DEVICES AND FIRE ALARM DEVICES, ETC.
3. MAINTAIN CONTINUITY OF ALL BRANCH CIRCUITS TO EXISTING WIRING DEVICES AND LIGHTING TO REMAIN.
4. MAINTAIN CONTINUITY OF ALL FIRE ALARM CIRCUITS AND TEMPORARILY SUPPORT SMOKE DETECTORS FROM STRUCTURAL CEILING DURING DEMOLITION FOR REINSTALLATION TO CEILINGS AS REQUIRED.
5. DISCONNECT AND REMOVE ALL DEVICES IN WALLS INDICATED FOR DEMOLITION BACK TO SOURCE OR LAST DEVICE TO REMAIN. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION AREAS.
6. TURN OVER ALL SECURITY SYSTEM DEVICES, MOTION SENSORS, CARD READERS, PROJECTORS, SPECIALTY SPEAKERS, ETC. TO THE OWNER AFTER DEMOLITION UNLESS SPECIFICALLY DIRECTED TO BE DISCARDED BY THE OWNER.
7. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL POWER WIRING AND CONDUITS FOR MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED BACK TO SOURCE. REFER TO MECHANICAL AND PLUMBING PLANS FOR ADDITIONAL INFORMATION.

KEY NOTES

① DISCONNECT AND REMOVE THE EXISTING PROJECTOR AND TURN OVER TO THE OWNER. DISCONNECT AND REMOVE ALL EXISTING WIRING AND CONDUIT BACK TO SOURCE OR LAST DEVICE TO REMAIN. (TYPICAL).

② DISCONNECT AND REMOVE EXISTING RECEPTACLE AND EXISTING BRANCH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE OR LAST DEVICE TO REMAIN. (TYPICAL).

③ DISCONNECT AND REMOVE THE EXISTING CAMERA AND TURN OVER TO THE OWNER. DISCONNECT AND REMOVE ALL EXISTING WIRING AND CONDUIT BACK TO SOURCE OR LAST DEVICE TO REMAIN. (TYPICAL).

④ DISCONNECT AND REMOVE EXISTING CABLE TRAYS.

⑤ DISCONNECT AND REMOVE THE EXISTING FIRE ALARM DEVICE(S) AND REMOVE EXISTING WIRING AND CONDUIT BACK TO SOURCE OR LAST DEVICE TO REMAIN. (TYPICAL).

⑥ EXISTING PANEL(S) TO BE RELOCATED. REFER TO POWER PLAN, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR NEW LOCATION(S) AND ADDITIONAL INFORMATION.

⑦ DISCONNECT AND REMOVE THE EXISTING DATA OUTLETS AND ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE (TYPICAL).

⑧ DISCONNECT AND REMOVE THE EXISTING OCCUPANCY SENSOR AND ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE (TYPICAL).

⑨ DISCONNECT AND REMOVE THE EXISTING CARD READER. DISCONNECT AND REMOVE ALL EXISTING WIRING AND CONDUIT BACK TO SOURCE OR LAST DEVICE TO REMAIN. (TYPICAL).

⑩ DISCONNECT AND REMOVE THE EXISTING LIGHT SWITCHES AND ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE OR LAST DEVICE TO REMAIN (TYPICAL).

⑪ DISCONNECT AND REMOVE THE SPEAKERS AND ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE OR LAST DEVICE TO REMAIN (TYPICAL).

⑫ DISCONNECT AND REMOVE EXISTING WIFI ROUTER AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE (TYPICAL).

⑬ DISCONNECT AND REMOVE THE EXISTING CLOCK/SPEAKER AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE (TYPICAL).

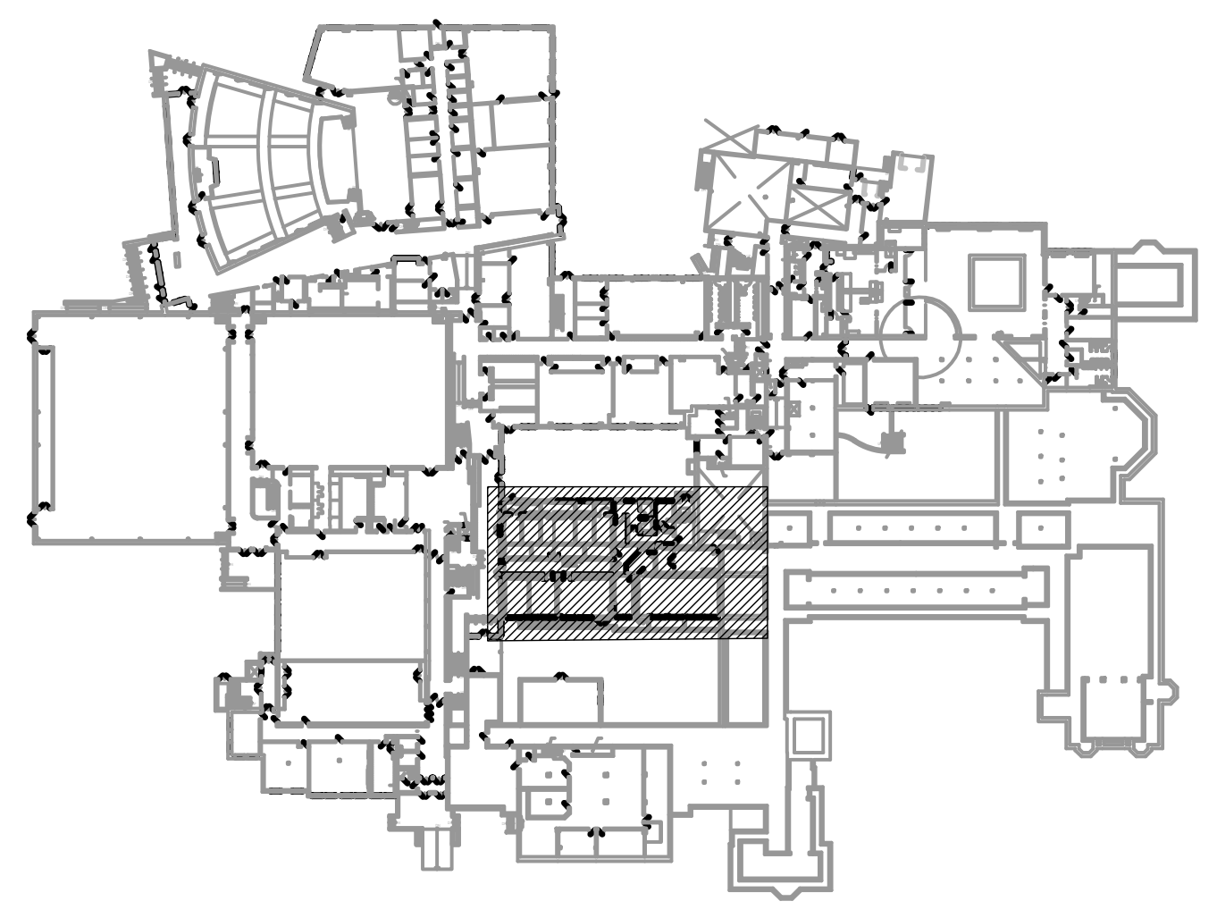
⑭ ALL LIGHTING IN THIS ROOM OR SPACE SHALL BE DISCONNECTED AND REMOVED. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE OR LAST DEVICE TO REMAIN.

⑮ DISCONNECT AND REMOVE ALL SURFACE RACEWAY, EXISTING RECEPTACLES AND DATA. DISCONNECT AND REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE OR LAST DEVICE TO REMAIN. (TYPICAL).

⑯ EXISTING DATA RACK AND ASSOCIATED DATA CABLING TO BE RELOCATED. COORDINATE WITH THE OWNER'S IT DEPARTMENT PRIOR TO COMMENCING WORK.

⑰ EXISTING MECHANICAL EQUIPMENT TO BE DISCONNECTED AND REMOVED. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE.

⑱ EXISTING SECURITY PANELS AND EQUIPMENT THIS WALL TO REMAIN. CONTRACTOR TO CONSTRUCT CABINET TO ENCLOSE EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. SEE POWER PLAN FOR CABINET LOCATION.



KEY PLAN - GROUND FLOOR

NOT TO SCALE

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Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2
Project Date
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AHG
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Scale
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Drawing Name
ELECTRICAL GROUND FLOOR DEMOLITION PLAN

Revisions

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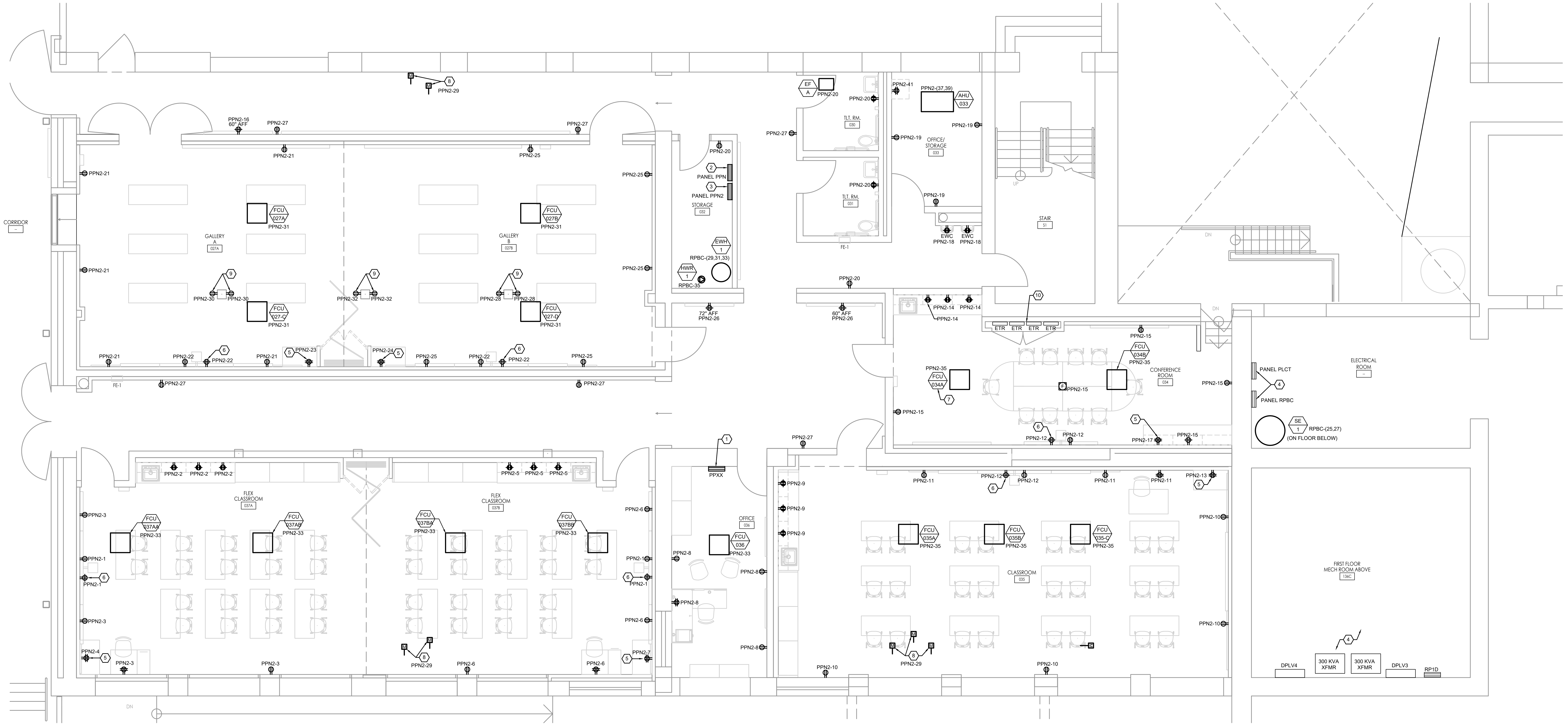


GROUND FLOOR POWER PLAN

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. COORDINATE ALL WIRING DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH THE ARCHITECT PRIOR TO ROUGH-IN. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
2. CONTRACTOR SHALL CAREFULLY COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS AND CLEARANCES.
3. CIRCUIT ELECTRONIC TRAP PRIMERS TO THE NEAREST RECEPTACLE CIRCUIT SERVING THE AREA LOCATED - 2#12 & 1#12EG IN 3/4"C. REFER TO PLUMBING PLANS FOR EXACT LOCATIONS.
4. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
5. FOR ADDITIONAL SCOPE OF WORK RELATED TO THE BUILDING MANAGEMENT SYSTEM AND HVAC CONTROLS, PLEASE REFER TO SPECIFICATION SECTION 23900 - INSTRUMENTATION AND CONTROL FOR HVAC EQUIPMENT
6. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS.

KEY NOTES

1 NEW LOCATION OF EXISTING PANEL XX. EXISTING PANEL TO BE REPLACED WITH NEW AT NEW LOCATION. REFER TO PANEL SCHEDULES.

2 NEW LOCATION OF EXISTING PANEL PPN. EXISTING PANEL TO BE REPLACED WITH NEW AT NEW LOCATION. REFER TO PANEL SCHEDULES.

3 NEW PANEL PPN2. REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULES.

4 EXISTING PANEL(S) TO REMAIN.

5 QUAD OUTLET FOR AUDIO CABINET. FIELD VERIFY EXACT MOUNTING HEIGHT AND LOCATION.

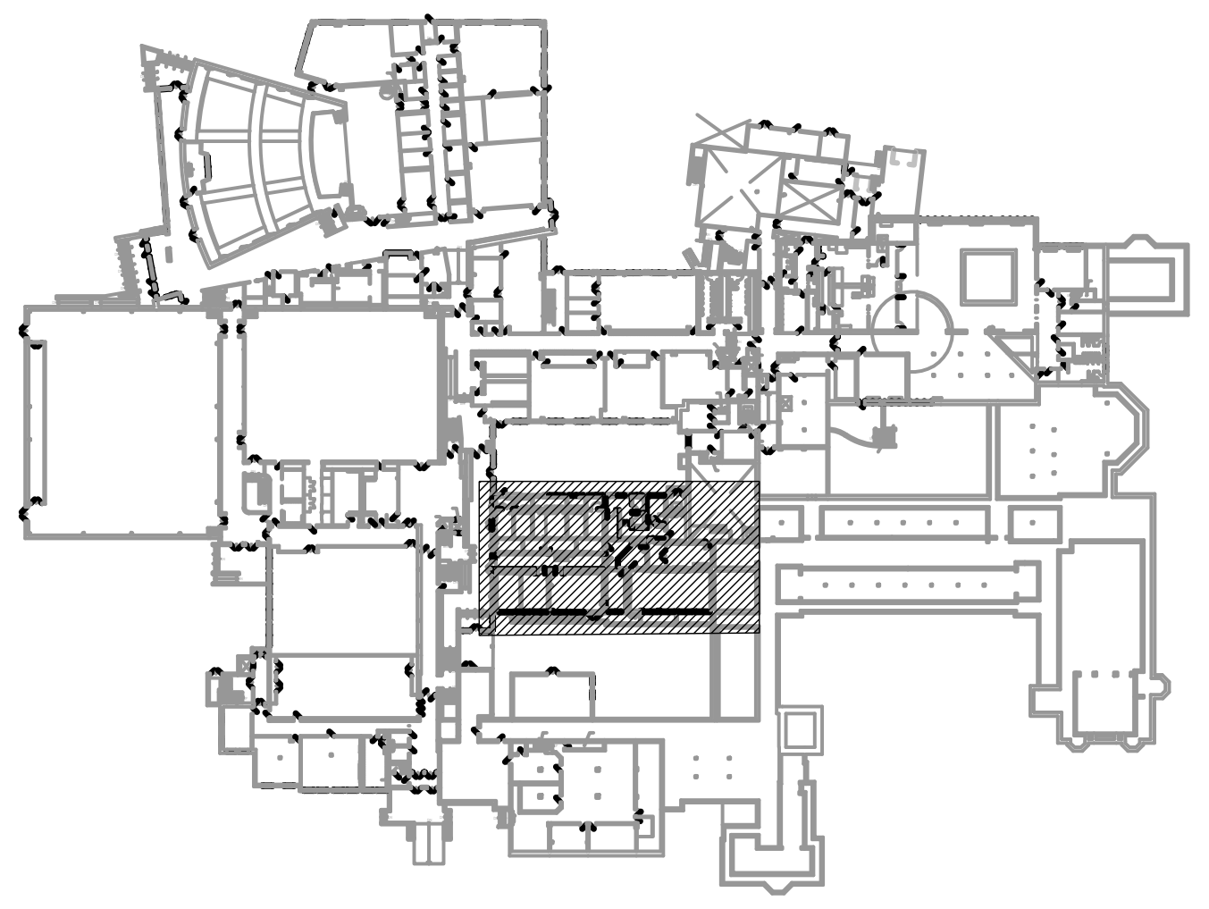
6 SHORT THROW PROJECTOR RECEPTACLE. FIELD VERIFY MOUNTING HEIGHT WITH PROJECTOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.

7 MECHANICAL EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT COORDINATION SCHEDULE FOR LOCAL POWER DISCONNECT INFORMATION AND PANEL SCHEDULES FOR CIRCUIT, WIRE AND CONDUIT SIZES. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS. (TYPICAL).

8 PROVIDE 120V POWER FOR MOTOR OPERATED DAMPER ACTUATORS.

9 MOUNT WIREMOLD #700 SERIES DUPLEX RECEPTACLE AND RACEWAY DOWN COLUMN. FIELD VERIFY MOUNTING HEIGHT OF RECEPTACLE WITH THE OWNER.

10 EXISTING SECURITY SYSTEM EQUIPMENT TO REMAIN AND BE ENCLOSED IN NEW CABINET. REFER TO ARCHITECTURAL PLANS.



KEY PLAN - GROUND FLOOR

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William D. Hopkins
Architect

2/06/26
Date

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
AHG

Drawn By
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Scale
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Drawing Name
ELECTRICAL GROUND FLOOR POWER PLAN

Revisions

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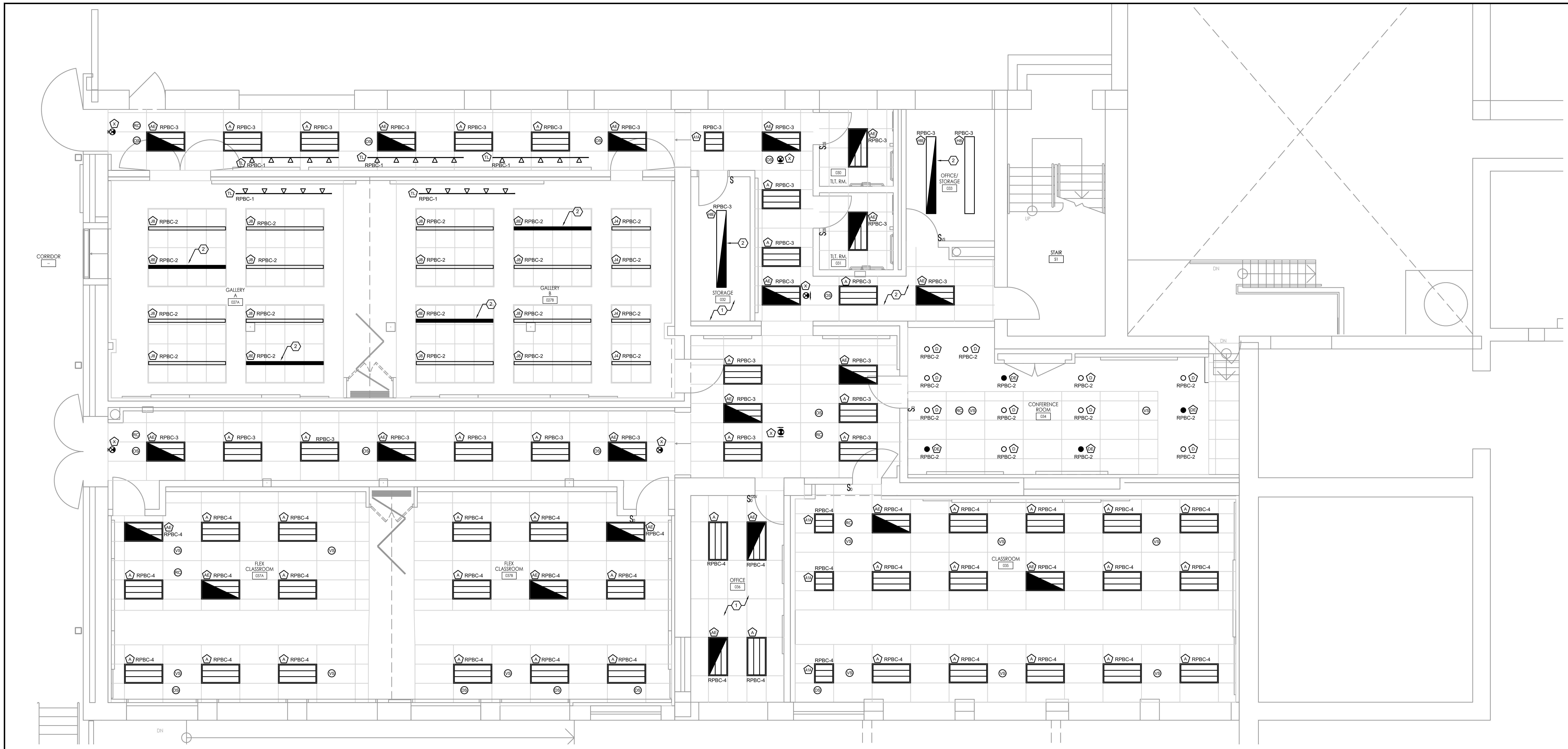


GROUND FLOOR LIGHTING PLAN

SCALE: 1/4" = 1'-0"

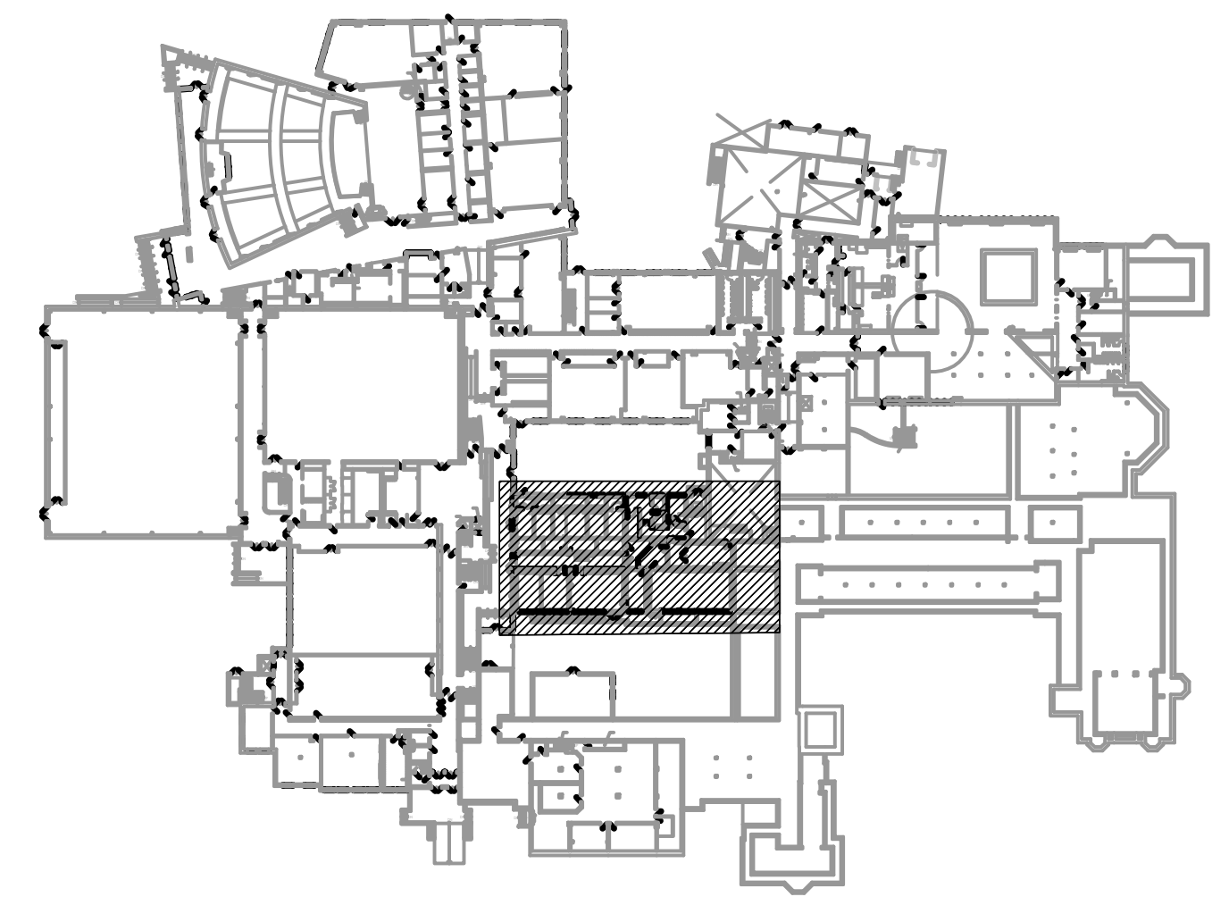
SHEET NOTES

1. COORDINATE ALL LIGHTING FIXTURE AND WIRING DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL COORDINATE ALL LIGHTING LOCATIONS, MOUNTING HEIGHTS AND SWITCHING LOCATIONS WITH THE ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. REFER TO LIGHTING CONTROLS DRAWINGS.
3. ALL EXIT, UNIT EMERGENCY LIGHTING AND FIXTURE EMERGENCY BATTERY PACKS SHALL BE CONNECTED TO THE LINE SIDE OF THE CIRCUIT SERVING AREA LOCATED AND AHEAD OF ANY SWITCHING OR LIGHTING CONTROL.
4. UNLESS SHOWN ON THIS PLAN AS NEW, ALL OTHER LIGHTING SHALL BE EXISTING TO REMAIN.

KEY NOTES

⟨1⟩ LIGHTING THIS ROOM OR ANY ROOM WITH PANELBOARDS SHALL NOT HAVE AUTOMATIC CONTROLS PER NEC. PROVIDE GENERAL USE SNAP SWITCHES.

⟨2⟩ ENTIRE FIXTURE FURNISHED WITH INTEGRAL EMERGENCY BATTERY (TYPICAL).



KEY PLAN - GROUND FLOOR

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William D. Hopkins
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2/06/26
Date

Project Name	Renovations to Princeton High School
Project Owner Name	Princeton Public Schools
Project Location	151 Moore Street, Princeton, NJ 08540
Project Number	5516A2
Project Date	02.06.2026
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Scale	AS NOTED
Drawing Name	ELECTRICAL GROUND FLOOR LIGHTING PLAN

Revisions

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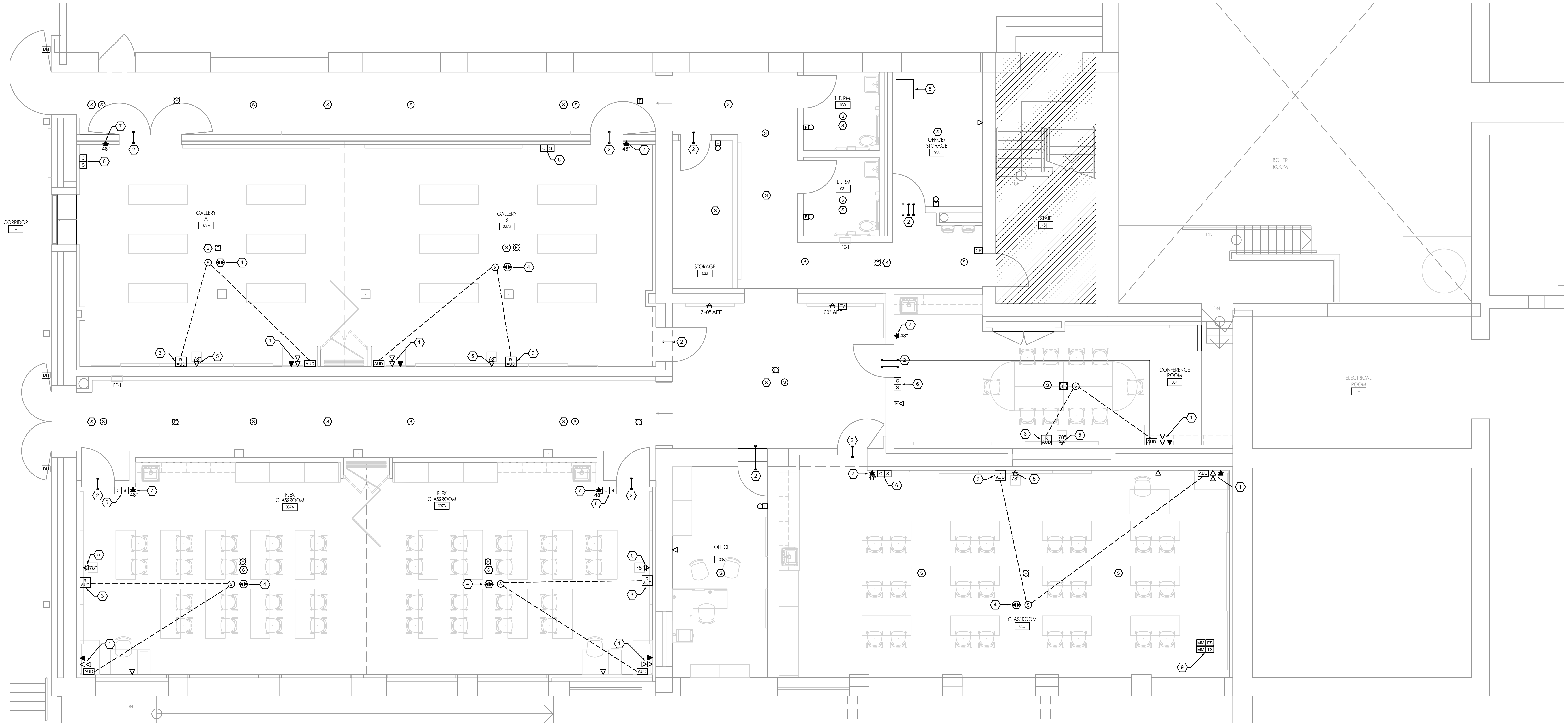
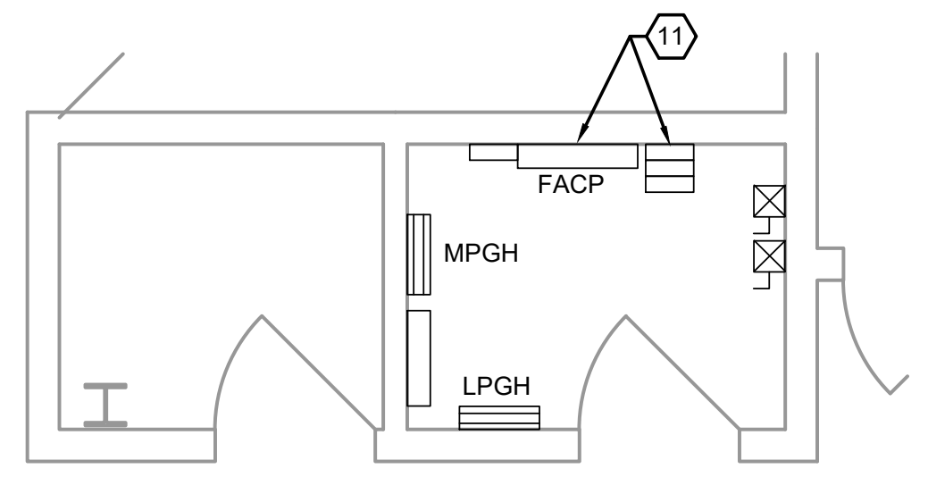


GROUND FLOOR POWER PLAN

SCALE: 1/4" = 1'-0"



ELECTRIC ROOM 086.5 PART PLAN

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. COORDINATE ALL WIRING DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. REFER TO SYMBOL LIST ON DRAWING E1.0 FOR ADDITIONAL INFORMATION.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

⟨1⟩ DATA, TELEPHONE AND HDMI JUNCTION BOX AT TEACHER'S AV CABINET LOCATION. REFER TO SYMBOL LIST.

⟨2⟩ 2" CONDUIT SLEEVE(S) INTO ROOM. PROVIDE QUANTITY AS SHOWN (TYPICAL).

⟨3⟩ LOCAL AUDIO SYSTEM WITH HDMI CABLES TO CEILING TEACHING SPEAKER, REMOTE MICROPHONE WITH VOLUME CONTROL AND SOURCE SETTING, AND SHORT THROW PROJECT.

⟨4⟩ CEILING MOUNTED WIRELESS ACCESS (WIFI) ROUTER LOCATION.

⟨5⟩ DATA OUTLET FOR SHORT THROW PROJECTOR MOUNTED 78" AFF (TYPICAL).

⟨6⟩ CLOCK/SPEAKER LOCATION. REFER TO SYMBOL LIST (TYPICAL).

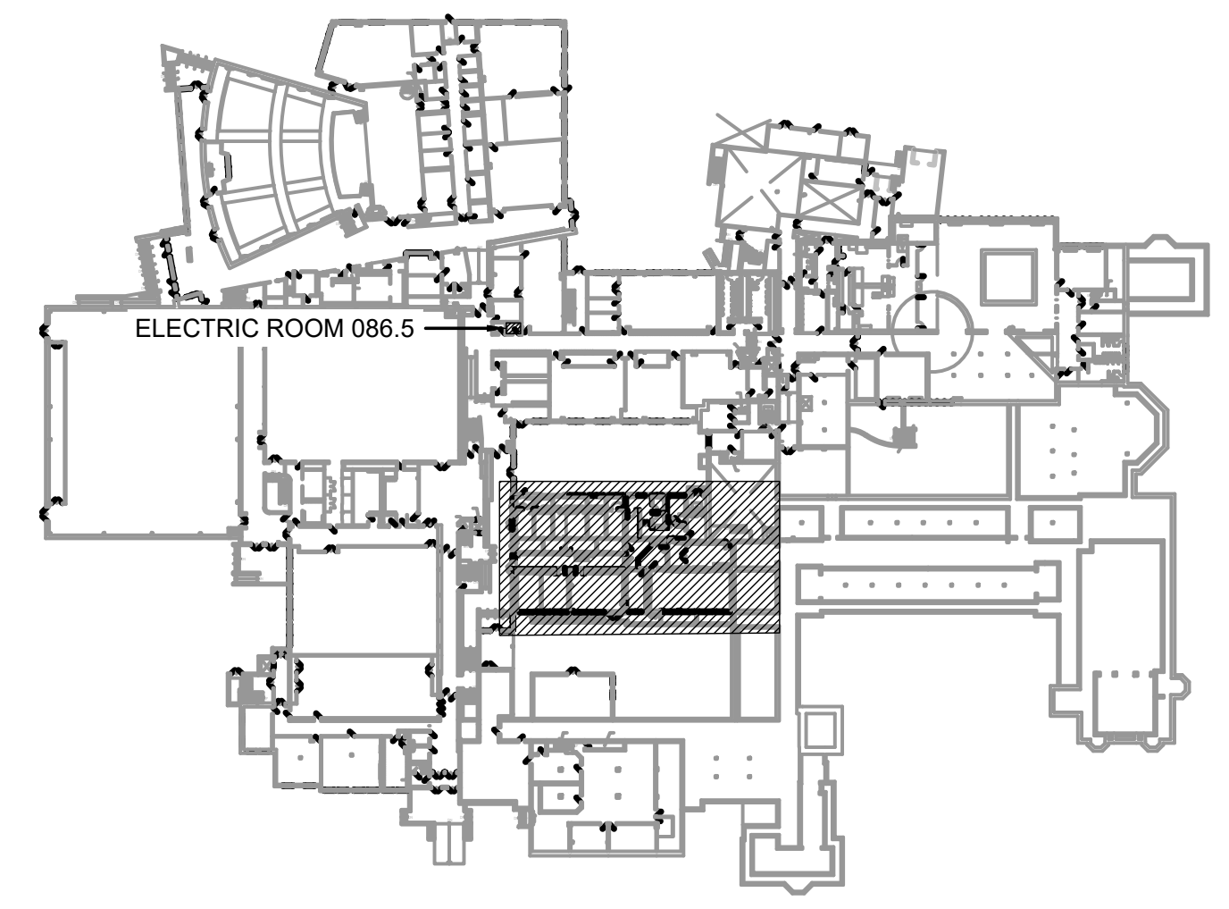
⟨7⟩ TELEPHONE MOUNTED AT 48" AFF (TYPICAL).

⟨8⟩ PROVIDE NEW WALL MOUNTED DATA RACK (IDF-97) FOR USE BY THE OWNER. COORDINATE EXACT LOCATION WITH THE OWNER PRIOR TO ROUGH-IN. RACK TO MATCH EXISTING FS SERVER RACK, OR APPROVED EQUAL.

⟨9⟩ COORDINATE EXACT QUANTITIES AND LOCATIONS OF FLOW AND TAMPER SWITCHES WITH THE FIRE PROTECTION SYSTEM SHOP DRAWINGS.

⟨10⟩ NEW FIRE ALARM EXPANDER PANEL. FIELD COORDINATE EXACT LOCATION WITH THE FIRE ALARM SYSTEM INTEGRATOR.

⟨11⟩ EXISTING FIRE ALARM CONTROL PANEL EST3-10 AND SIGNAL BOOSTERS LOCATION.



KEY PLAN - GROUND FLOOR

NOT TO SCALE

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EST 1918
FVHD architects planners
Fraytak Veisz Hopkins Duthie PC
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08618
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 19453
FVHDPC.COM

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2

Project Date
02.06.2026

Checked By
AHG

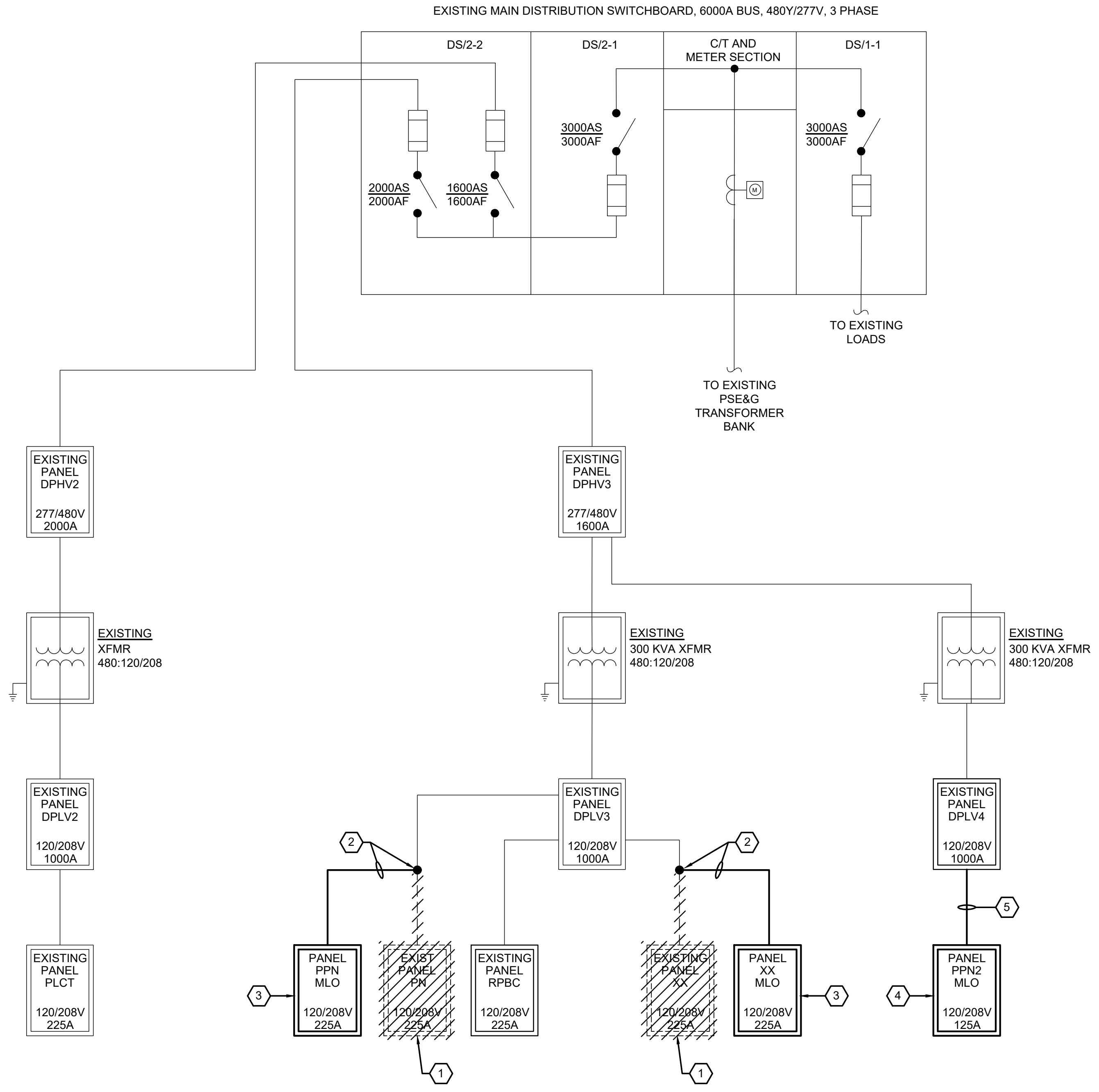
Drawn By
AF / AMP

Scale
AS NOTED

Drawing Name
ELECTRICAL GROUND FLOOR LOW VOLTAGE & FIRE ALARM PLAN

Revisions		
No.	Date	Description

Drawing Number
E5.0


EXISTING MAIN DISTRIBUTION SWITCHBOARD, 6000A BUS, 480Y/277V, 3 PHASE
DS/2-2
DS/2-1
C/T AND METER SECTION
DS/1-1
2000AS 2000AF
1600AS 1600AF
3000AS 3000AF
3000AS 3000AF
M
TO EXISTING PSE&G TRANSFORMER BANK
TO EXISTING LOADS
EXISTING PANEL DPHV2 277/480V 2000A
EXISTING PANEL DPHV3 277/480V 1600A
EXISTING XFMR 480:120/208
EXISTING 300 KVA XFMR 480:120/208
EXISTING 300 KVA XFMR 480:120/208
EXISTING PANEL DPLV2 120/208V 1000A
EXISTING PANEL DPLV3 120/208V 1000A
EXISTING PANEL DPLV4 120/208V 1000A
EXISTING PANEL PLCT 120/208V 225A
PANEL PPN MLO 120/208V 225A
EXIST PANEL PN 120/208V 225A
EXISTING PANEL RPBC 120/208V 225A
EXISTING PANEL XX 120/208V 225A
PANEL XX MLO 120/208V 225A
PANEL PPN2 MLO 120/208V 125A
1
2
3
4
5

PARTIAL ONE LINE DIAGRAM

NOT TO SCALE

LINETYPE LEGEND

-/-/-/-/-/	DEMOLITION
———	EXISTING
———	EXISTING (MODIFIED)
———	NEW

KEY NOTES

① EXISTING PANEL TO BE REMOVED, RELOCATED AND REPLACED WITH NEW AT NEW LOCATION.

② INTERCEPT EXISTING CONDUIT AND FEEDERS AND EXTEND TO NEW PANEL LOCATION.

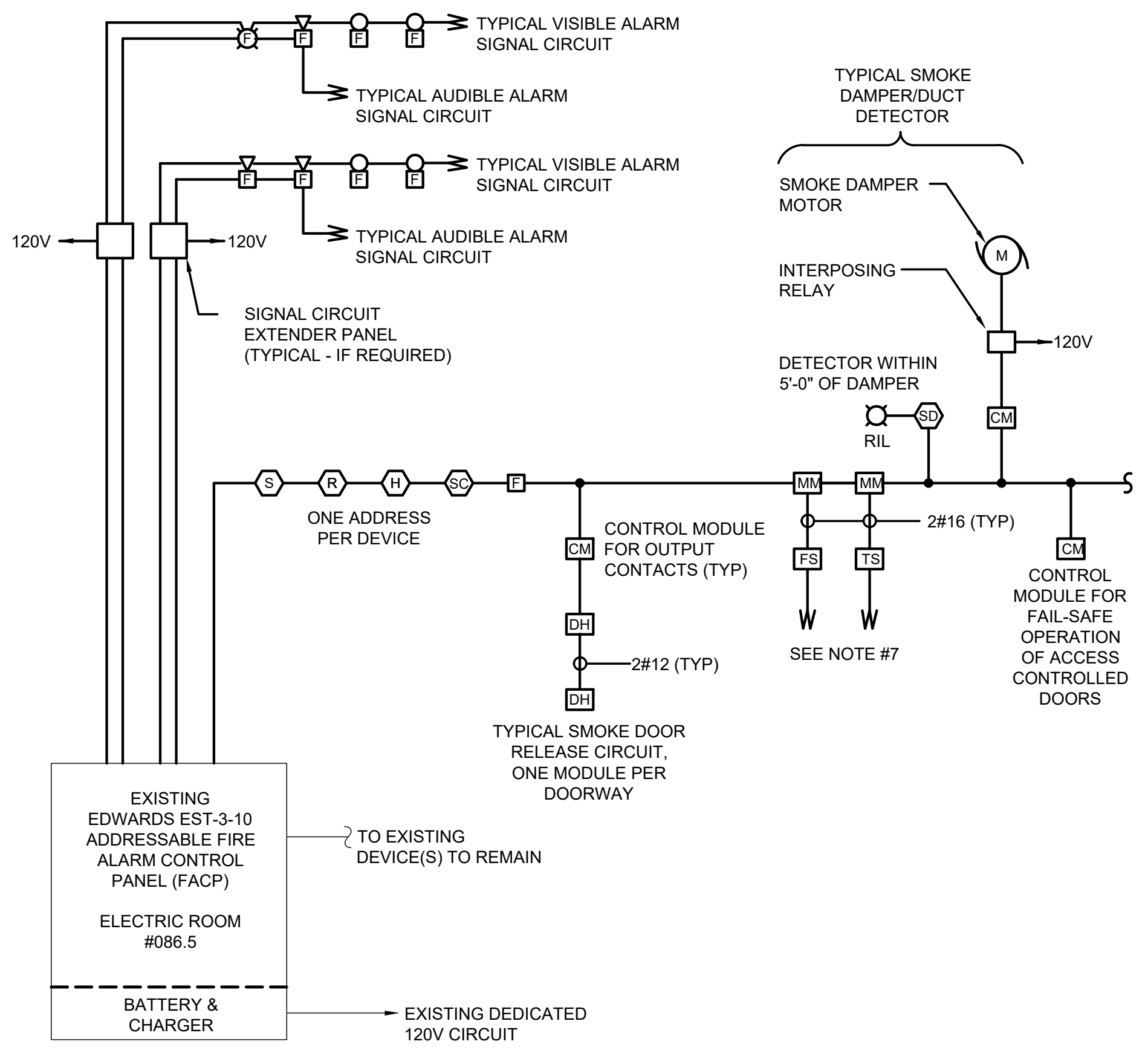
③ NEW PANEL TO REPLACE EXISTING PANEL BEING RELOCATED DUE TO DEMOLITION OF SPACE. EXTEND ALL BRANCH CIRCUIT WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.

④ NEW PANEL PPN2.

⑤ SEE PANEL SCHEDULE.

SHEET NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL ELECTRIC SERVICE SHUTDOWNS WITH THE OWNER AT LEAST SEVEN (7) DAYS PRIOR TO THE SHUTDOWN. ALL SHUTDOWN WORK SHALL BE PERFORMED ON WEEKENDS.
2. UNLESS NOTED OTHERWISE OR SHOWN AS NEW, ALL PANELS, CIRCUIT BREAKERS, WIRING AND CONDUIT SHALL BE EXISTING TO REMAIN.
3. UNLESS NOTED OTHERWISE, REFER TO PANEL SCHEDULES FOR CONDUIT AND FEEDER SIZES.


TYPICAL VISIBLE ALARM SIGNAL CIRCUIT
TYPICAL AUDIBLE ALARM SIGNAL CIRCUIT
TYPICAL VISIBLE ALARM SIGNAL CIRCUIT
TYPICAL AUDIBLE ALARM SIGNAL CIRCUIT
120V
120V
SIGNAL CIRCUIT EXTENDER PANEL (TYPICAL - IF REQUIRED)
TYPICAL SMOKE DAMPER/DUCT DETECTOR
SMOKE DAMPER MOTOR
M
INTERPOSING RELAY
120V
DETECTOR WITHIN 5'-0" OF DAMPER
RIL
SD
CM
S
R
H
SC
F
ONE ADDRESS PER DEVICE
CM
CONTROL MODULE FOR OUTPUT CONTACTS (TYP)
DH
2#12 (TYP)
DH
TYPICAL SMOKE DOOR RELEASE CIRCUIT, ONE MODULE PER DOORWAY
MM
MM
2#16 (TYP)
FS
TS
SEE NOTE #7
CM
CONTROL MODULE FOR FAIL-SAFE OPERATION OF ACCESS CONTROLLED DOORS
EXISTING EDWARDS EST-3-10 ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP)
ELECTRIC ROOM #086.5
BATTERY & CHARGER
TO EXISTING DEVICE(S) TO REMAIN
EXISTING DEDICATED 120V CIRCUIT

ADDRESSABLE FIRE ALARM RISER DIAGRAM

NOT TO SCALE

DEVICE LEGEND:

▽ F	FIRE ALARM AUDIBLE/VISUAL SIGNAL
○ F	FIRE ALARM STROBE
¤ F	CEILING MOUNTED FIRE ALARM AUDIBLE/VISUAL SIGNAL
F	FIRE ALARM MANUAL PULL STATION
S	SMOKE DETECTOR
SD	SMOKE DUCT DETECTOR
H	HEAT DETECTOR (135°F UNO)
R	RATE OF RISE HEAT DETECTOR
CO	CO DETECTOR
SC	COMBINATION SMOKE/CO DETECTOR
DH	DOOR HOLDER
TS	SPRINKLER TAMPER SWITCH
FS	SPRINKLER FLOW SWITCH
MM	ADDRESSABLE MONITOR MODULE
CM	ADDRESSABLE CONTROL MODULE
¤	REMOTE INDICATING LIGHT

FIRE ALARM RISER DIAGRAM NOTES

1. ALL WIRING SHALL BE PER MANUFACTURER'S REQUIREMENT AND RECOMMENDATION AND MEET APPLICABLE CODE REQUIREMENTS INCLUDING BUT NOT LIMITED TO NEC 760.
2. PROJECT SPECIFIC FIRE ALARM RISER DIAGRAM AND SHOP DRAWINGS, INCLUDING BATTERY CALCULATIONS AND NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP ANALYSIS PLUS SEQUENCE OF OPERATIONS, SHALL BE PREPARED AND SUBMITTED, BY THE FIRE ALARM VENDOR, TO THE PROJECT ENGINEER FOR APPROVAL. ROOM NAMES AND NUMBERS ON PLANS ARE NOT FOR LABELING OR PROGRAMMING USE. CONSULT WITH OWNER FOR THIS INFORMATION. AFTER APPROVAL BY THE ENGINEER, A SUBMITTAL, SIGNED BY A REGISTERED NICET LEVEL 4, AND ASSOCIATED WITH THE FIRE ALARM VENDOR, SHALL BE FORWARDED TO THE CONTRACTOR FOR SUBMITTAL TO THE AUTHORITIES HAVING JURISDICTION.
3. ALL WIRING SHALL BE RUN CONCEALED UNLESS PERMITTED BY THE ARCHITECT. PLENUM RATED CABLE WITHOUT RACEWAY IS ACCEPTABLE ONLY IN CONCEALED CEILING SPACES.
4. ALL DEVICES SHALL BE FULLY ADDRESSABLE. CONVENTIONAL HEAT-DETECTORS, ZONED TO AN ADDRESSABLE MODULE, MAY BE AN ACCEPTABLE ALTERNATE IN ATTIC SPACES. (EXTREME HEAT CONDITIONS) CONTACT PROJECT ENGINEER FOR RESOLUTION.
5. CONTRACTOR SHALL COMPLETE A FULL AND THOROUGH FIELD SURVEY OF EXISTING CONDITIONS AND BUILDING FEATURES. CONTRACTOR MUST BE FAMILIAR WITH STRUCTURE PRIOR TO START OF WORK IN ORDER TO PROVIDE A FIRE ALARM SYSTEM THAT COMPLIES WITH ALL APPLICABLE CODES, OWNER'S UNDERWRITER REQUIREMENTS, AND RECOMMENDATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION. IF CONTRACTOR FAILS TO COMPLY, NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR WORK THAT IS REASONABLE HAD A PRE-CONSTRUCTION FIELD SURVEY BEEN COMPLETED.
6. A 100% TOTAL RE-ACCEPTANCE TEST SHALL BE PERFORMED AT THE COMPLETION OF THE NEW FIRE ALARM SYSTEM INSTALLATION PER INTERNATIONAL BUILDING CODE (IBC) SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. TYPICAL FIRE SUPPRESSION CIRCUITS. MAXIMUM OF ONE DEVICE PER MODULE. REFER TO THE MECHANICAL/PLUMBING/FIRE PROTECTION DRAWINGS FOR QUANTITIES AND LOCATIONS.
8. FIRE ALARM SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH ALL DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO TO ATTENTION OF THE ENGINEER FOR RESOLUTION. EXISTING FIRE ALARM SYSTEM IS EDWARDS EST-3. REFER TO DRAWING E1.0, NOTE #85 FOR VENDOR CONTACT INFORMATION.
9. PROVIDE REMOTE INDICATING LIGHT AND TEST SWITCH (WITH IDENTIFICATION LABEL) FOR EACH DETECTOR IN ACCESSIBLE SPACE INSIDE THE BUILDING.
10. CONTRACTOR SHALL INSTALL ALL ABOVE CEILING DEVICES AFTER ALL PIPING, DUCTWORK, CONDUITS, ETC ARE INSTALLED SUCH THAT THE FIRE ALARM DEVICE IS EASILY ACCESSIBLE. COORDINATE LOCATIONS WITH THE STRUCTURE AND ALL OTHER UTILITIES.
11. EXTRA DEVICES:
    PROVIDE TWO (2) OF EACH OF THE FOLLOWING EXTRA FIRE ALARM SYSTEM DEVICES AND ASSOCIATED WIRING TO BE FIELD LOCATED BY THE ENGINEER OR LOCAL FIRE MARSHAL:

    MANUAL PULL STATIONS
    HORN / STROBES
    STROBES
    CO DETECTORS
    COMBINATION CO / SMOKE DETECTORS
    MONITOR MODULES
    CONTROL MODULES

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2/06/26
Date

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Scale
AS NOTED

Drawing Name
ELECTRICAL PARTIAL ONE LINE DIAGRAM & FIRE ALARM RISER DIAGRAM

Revisions

No.	Date	Description

Drawing Number
E6.0

MECHANICAL EQUIPMENT COORDINATION SCHEDULE

IDENTIFICATION		ELECTRICAL CHARACTERISTICS ①							LOCAL POWER DISCONNECT ③ ④					
PLAN ID	DESCRIPTION	VOLTAGE & Ø	MOTOR HP	UNIT KW	FLA	MCA	MOCP	WIRING ②	AMPS	POLES	FUSE AMPS	NEMA TYPE	SERVICE RECEPTACLE	REMARKS
FCU-027A	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-027B	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-027C	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-027D	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-037AA	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-037AB	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-037BA	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-037BB	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-036	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-035A	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-035B	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-035C	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-034A	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
FCU-034B	FAN COIL UNIT	208/1Ø			-	1.0	15	SEE SCHEDULES	⑤			NEMA 1	NO	⑦
EF-A	EXHAUST FAN	115V-1Ø			73 WATTS	91.3 WATTS	15	SEE SCHEDULES	⑥			NEMA 1	NO	
AHU-033	AIR HANDLING UNIT	208V-1Ø			-	9.7	15	SEE SCHEDULES	30	2	15	NEMA 1	NO	
EWH-1	ELECTRIC WATER HEATER	208V-3Ø		6.0	16.7	20.9	25	SEE SCHEDULES	30	3	25	NEMA 1	NO	
HWR-1	HOT WATER RETURN PUMP	115V-1Ø			270 WATTS	338 WATTS	15	SEE SCHEDULES	⑥			NEMA 1	NO	
SE-1	DUPLEX SEWAGE EJECTOR	208V-3Ø	2 @ 1.0		10.2	12.8	20	SEE SCHEDULES	30	3	20	NEMA 1	NO	WITH PUMP CONTROL PANEL

EQUIPMENT SCHEDULE KEY NOTES

① DATA FROM SPECIFIED MANUFACTURER. REFER TO MECHANICAL DRAWINGS

② QUANTITY AND SIZE OF POWER CONDUCTORS BASED ON DATA FROM SPECIFIED MANUFACTURER. PROVIDE GROUND WIRE IN ACCORDANCE WITH THE PROJECT GENERAL NOTES THIS SHEET.

③ WHERE A FUSE SIZE IS NOT ENTERED IN COLUMN TITLED "FUSE AMPS", THE DISCONNECT MAY BE UNFUSED.

④ EQUIPMENT FURNISHED AND INSTALLED UNDER OTHER SPECIFICATION DIVISIONS, WIRED AND CONNECTED UNDER DIVISION 26, UNLESS NOTED OTHERWISE. DISCONNECT SWITCHES FURNISHED UNDER DIVISION 23.

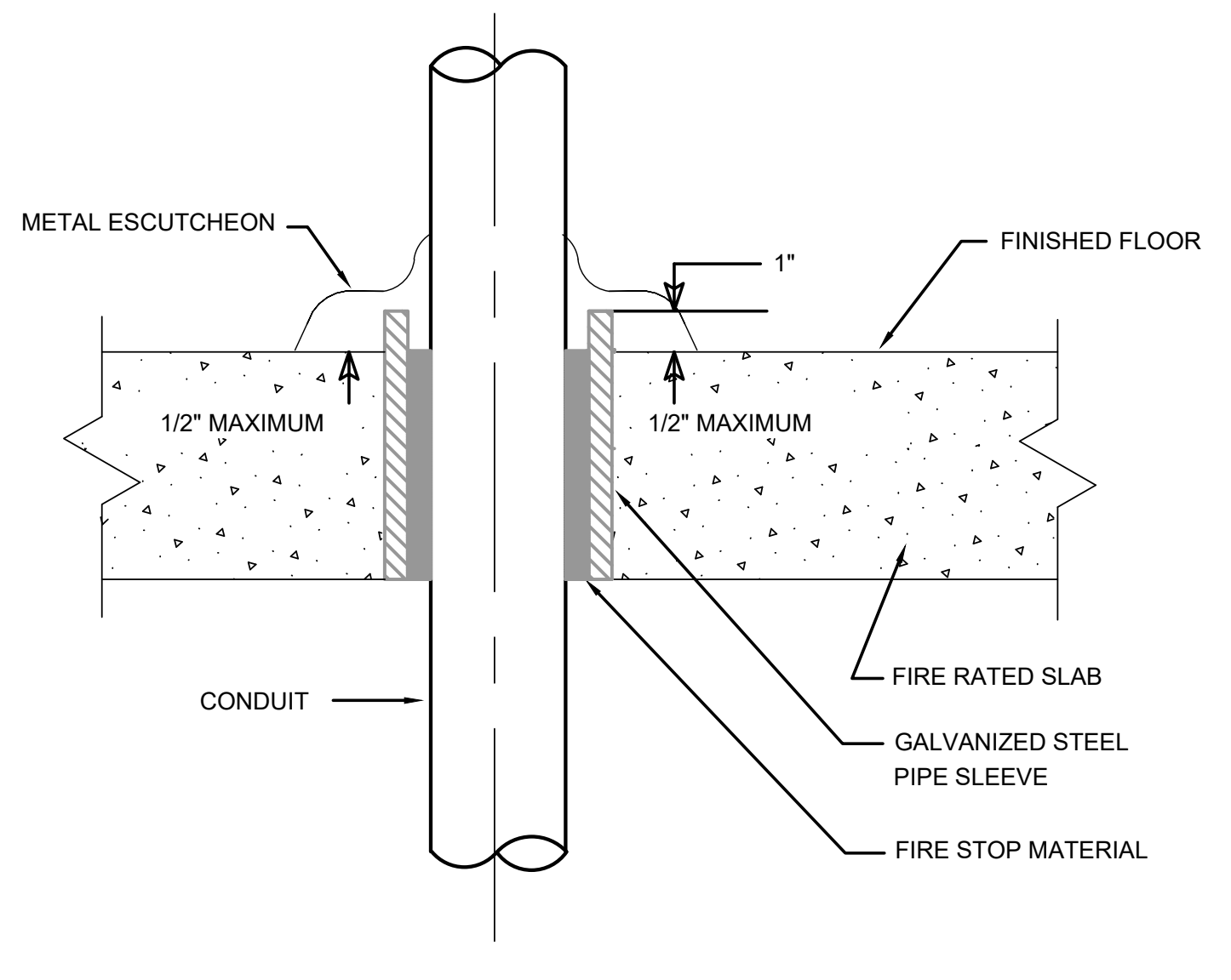
⑤ EQUIPMENT FURNISHED WITH UNIT MOUNTED POWER DISCONNECT SWITCH.

⑥ PROVIDE MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION.

⑦ FAN COIL UNIT PROVIDED WITH INTEGRAL CONDENSATE PUMP.

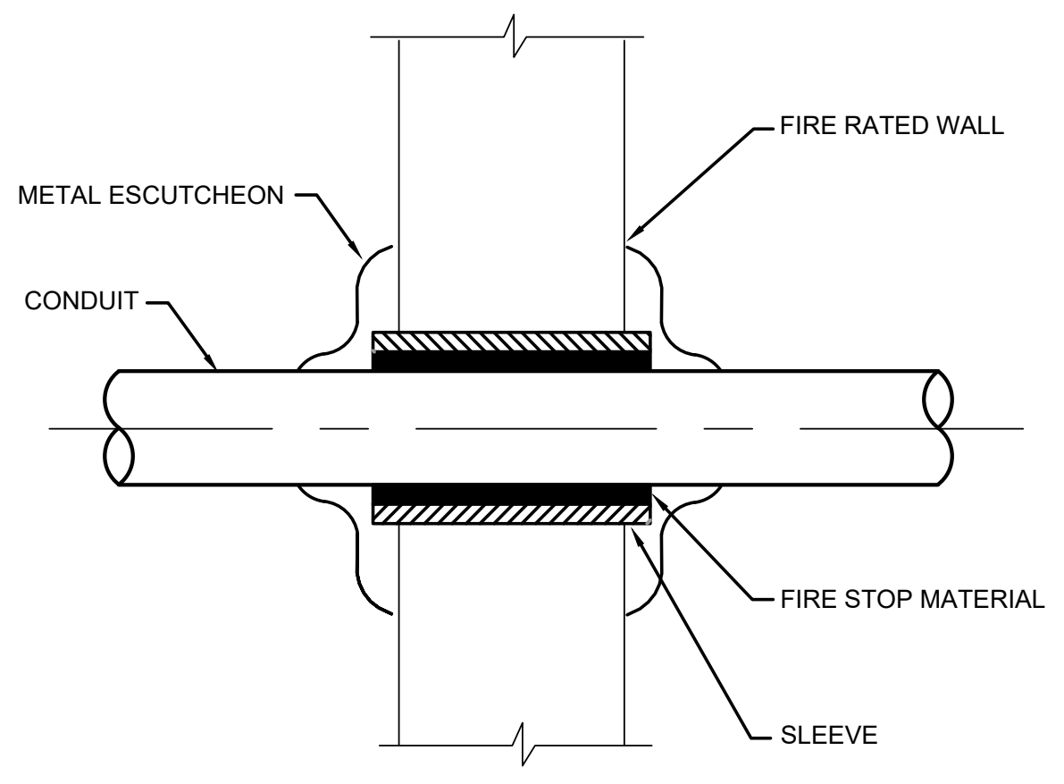
EQUIPMENT SCHEDULE GENERAL NOTES

1. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL 120V CONTROL POWER WIRING FEEDERS AND CIRCUIT BREAKERS REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT. STARTERS AND POWER DISCONNECT SWITCHES SHALL BE BY THE MECHANICAL CONTRACTOR. REFER TO MECHANICAL SPECIFICATION SECTIONS AND COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXTENT OF WORK REQUIRED.



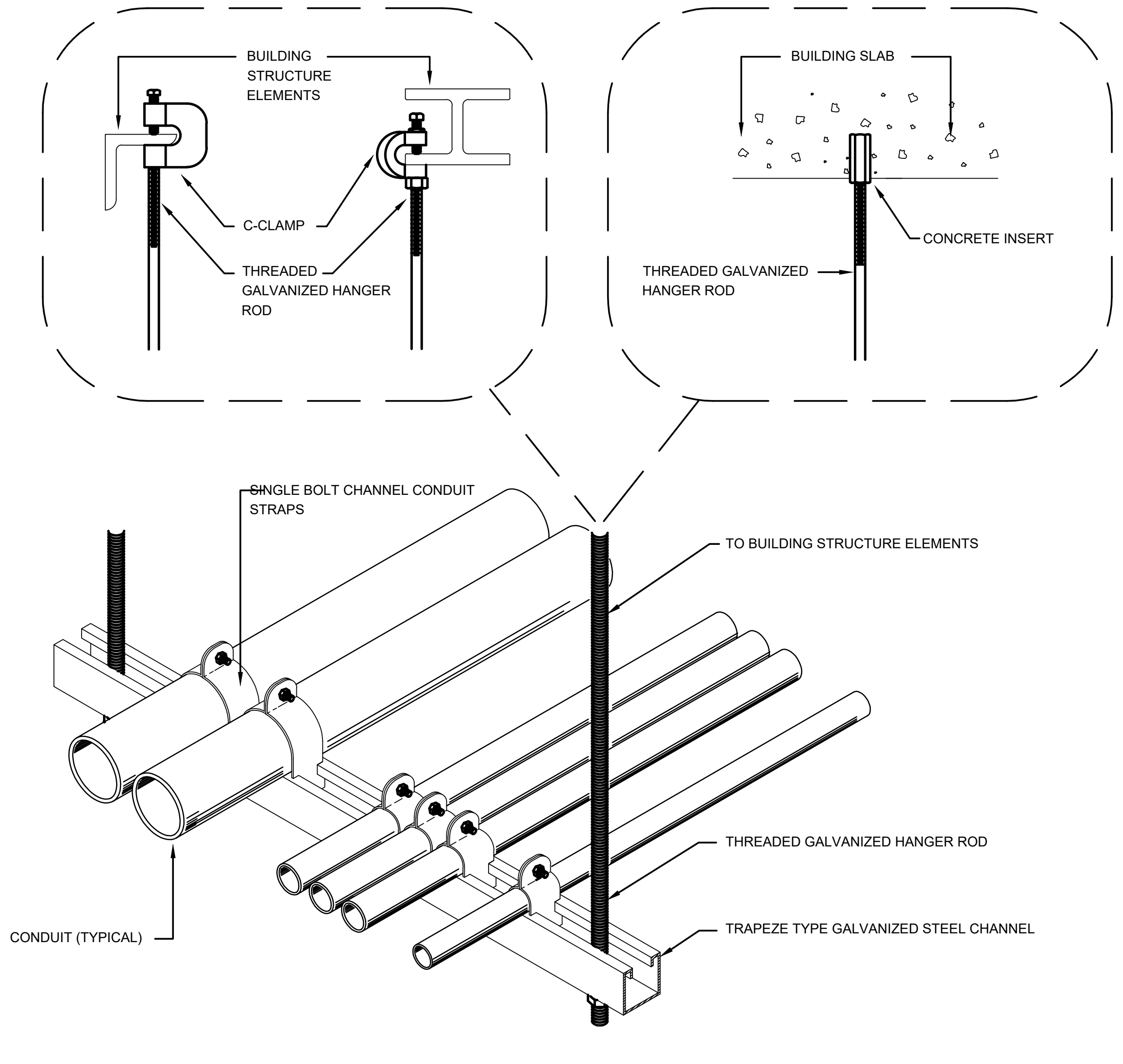
CONDUIT PENETRATION DETAIL - THRU FIRE RATED SLAB

NOT TO SCALE



CONDUIT PENETRATION DETAIL THRU FIRE RATED SOLID WALL

NOT TO SCALE


BUILDING STRUCTURE ELEMENTS
C-CLAMP
THREADED GALVANIZED HANGER ROD
BUILDING SLAB
CONCRETE INSERT
THREADED GALVANIZED HANGER ROD
SINGLE BOLT CHANNEL CONDUIT STRAPS
TO BUILDING STRUCTURE ELEMENTS
THREADED GALVANIZED HANGER ROD
TRAPEZE TYPE GALVANIZED STEEL CHANNEL
CONDUIT (TYPICAL)

MULTIPLE CONDUIT SUSPENSION SUPPORT DETAIL

NOT TO SCALE

EXISTING PANEL DPLV3

(EXISTING)

JOB NAME: PRINCETON HIGH SCHOOL
RATING: 208/120V, 3 PH, 4W, 1200A
JOB NO.: 23463.002
LOCATION: 1ST FL MECH 136C

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	PANEL MPGD	3		70	EXISTING	0.0			EXISTING	70		3	PANEL PLCP1	2
3							0.0							4
5								0.0						6
7	PANEL PLCP2	3		70	EXISTING	0.0			EXISTING	60		3	PANEL RP1E	8
9							0.0							10
11								0.0						12
13	PANEL RP2E	3		100	EXISTING	0.0			EXISTING	100		3	PANEL PPN AND PANEL PBC	14
15							0.0							16
17								0.0						18
19	PANEL MP1F	3		125	EXISTING	7.3			EXISTING	125	7.3	3	PANEL RPBC	20
21							8.5				8.5			22
23								6.8			6.8			24
25	PANEL RP2F	3		150	EXISTING	0.0			EXISTING	125		3	PANEL RP1F	26
27							0.0							28
29								0.0						30
31	PANEL RP1D	3		200	EXISTING	0.0			EXISTING	150		3	PANEL RP1G	32
33							0.0							34
35								0.0						36
					TOTAL (PHASE):	7.3	8.5	6.8						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 1000A
INTERRUPTING RATING: 42KA SYM.
FED FROM: EXISTING PANEL DPHV3

NOTES
1. EXISTING GE SPECTRA SERIES APNB BOLT-ON STYLE PANEL.
2. BOLT ON BREAKERS ONLY
3. ALL NEW CIRCUIT BREAKERS SHALL MATCH THE EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. PANEL SHOWN FOR REFERENCE ONLY. NO MODIFICATIONS THIS PANEL.

EXISTING PANEL DPLV4

(EXISTING)

JOB NAME: PRINCETON HIGH SCHOOL
RATING: 208/120V, 3 PH, 4W, 1200A
JOB NO.: 23463.002
LOCATION: 1ST FL MECH 136C

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	WALK-IN FREEZER	3		40	EXISTING	0.0			EXISTING	70		3	BOILER	2
							0.0							
								0.0						
3	BOILER	3		70	EXISTING	0.0			EXISTING	70		3	PANEL PLCP3	4
							0.0							
								0.0						
5	PANEL PLBS	3		125	EXISTING	7.8			**4#1 & 1#8EG IN 2"C**	**125**	**7.8**	**3**	**NEW PANEL PPN2 (SEE NOTE #3)**	6
							8.1				**8.1**			
								7.8			**7.8**			
7	PANEL RP1C	3		150	EXISTING	0.0			EXISTING	150		3	PANEL RP1A	8
							0.0							
								0.0						
9	PANEL MP1C	3		175	EXISTING	0.0			EXISTING	175		3	PANEL MP1D	10
							0.0							
								0.0						
11	PANEL RPL	3		200	EXISTING	0.0			EXISTING	200		3	PANEL RP1B	12
							0.0							
								0.0						
	MAIN CIRCUIT BREAKER	3		1000		0.0								
							0.0							
								0.0						
					TOTAL (PHASE):	7.8	8.1	7.8						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 1000A
INTERRUPTING RATING: 42KA SYM.
FED FROM: EXISTING PANEL DPHV4

NOTES
1. EXISTING GE SPECTRA SERIES APNB BOLT-ON STYLE PANEL.
2. BOLT ON BREAKERS ONLY
3. **ALL NEW CIRCUIT BREAKERS SHALL MATCH THE EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.**
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.

EXISTING PANEL RPBC

(EXISTING)

JOB NAME: PRINCETON HIGH SCHOOL
RATING: 208/120V, 3 PH, 4W, 225A
JOB NO.: 23463.002
LOCATION: GND FL ELEC ROOM

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	**TRACK LIGHTING**	**1**	**0.6**	**20**	**2#12 & 1#12EG IN 3/4"C**	1.4			**2#12 & 1#12EG IN 3/4"C**	**20**	**0.8**	**1**	**GALLERY & CONF RM LTG**	2
3	**CORRIDOR LIGHTING**	**1**	**1.1**	**20**	**2#12 & 1#12EG IN 3/4"C**		2.4		**2#12 & 1#12EG IN 3/4"C**	**20**	**1.3**	**1**	**CLASSROOM LIGHTING**	4
5	**MADE SPARE BY DEMOLITION**	**1**		**20**				0.0		**20**		**1**	**MADE SPARE BY DEMOLITION**	6
7	**MADE SPARE BY DEMOLITION**	**1**		**20**		0.0				**20**		**1**	**MADE SPARE BY DEMOLITION**	8
9	**MADE SPARE BY DEMOLITION**	**1**		**20**			0.0			**20**		**1**	**MADE SPARE BY DEMOLITION**	10
11	EXISTING LOAD	1	0.8	20	EXISTING			1.6	EXISTING	20	0.8	1	EXISTING LOAD	12
13	EXISTING LOAD	1	1.5	20	EXISTING	1.9			EXISTING	20	0.4	1	EXISTING LOAD	14
15	EXISTING LOAD	1	1.0	20	EXISTING		1.7		EXISTING	20	0.7	1	EXISTING LOAD	16
17	EXISTING LOAD	1	0.5	20	EXISTING			1.6	EXISTING	20	1.1	1	EXISTING LOAD	18
19	EXISTING LOAD	1	0.9	20	EXISTING	0.9				20		1	SPARE (FIELD VERIFY)	20
21	EXISTING LOAD	1	1.3	20	EXISTING		1.3			20		1	SPARE (FIELD VERIFY)	22
23	EXISTING LOAD	1	1.3	20	EXISTING			1.3		20		1	SPARE (FIELD VERIFY)	24
25	**NEW SEWAGE EJECTOR SE-1 (SEE NOTE #5)**	**2**	**1.1**	**20**	**3#12 & 1#12EG IN 3/4"C**	1.1				20		1	SPARE (FIELD VERIFY)	26
27			**1.1**				1.1			20		1	SPARE (FIELD VERIFY)	28
29	**NEW WATER HEATER EWH-1 (SEE NOTE #5)**	**3**	**2.0**	**25**	**4#10 & 1#10EG IN 3/4"C**			2.0		20		1	SPARE (FIELD VERIFY)	30
31			**2.0**			2.0				20		1	SPARE (FIELD VERIFY)	32
33			**2.0**				2.0			20		1	SPARE (FIELD VERIFY)	34
35	**HWR-1 (SEE NOTE #5)**	**1**	**0.3**	**20**	**2#12 & 1#12EG IN 3/4"C**			0.3		20		1	SPARE (FIELD VERIFY)	36
37	SPARE (FIELD VERIFY)	1		20		0.0				20		1	SPARE (FIELD VERIFY)	38
39	SPARE (FIELD VERIFY)	1		20			0.0			20		1	SPARE (FIELD VERIFY)	40
41	SPARE (FIELD VERIFY)	1		20				0.0		20		1	SPARE (FIELD VERIFY)	42
					TOTAL (PHASE):	7.3	8.5	6.8						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 125A
INTERRUPTING RATING: EXISTING KA SYM.
FED FROM: EXISTING PANEL DPLV-3

TOTAL CONNECTED LOAD.:	22.5	KVA
	62.6	AMPS

NOTES
1. EXISTING GE A-SERIES PANEL.
2. BOLT ON BREAKERS ONLY
3. **ALL NEW CIRCUIT BREAKERS SHALL MATCH THE EXISTING PANEL MANUFACTURER AND SHORT CIRCUIT RATING.**
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. **PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPARES**

NEW PANEL PPN2

(NEW)

JOB NAME: PRINCETON HIGH SCHOOL
RATING: 208/120V, 3 PH, 4W, 225A
JOB NO.: 23463.002
LOCATION: OFFICE 036

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	RECEPTACLES	1	0.6	20	2#12 & 1#12EG IN 3/4"C	1.1			2#12 & 1#12EG IN 3/4"C	20	0.5	1	CLASSROOM RECEPTACLES	2
3	CLASSROOM RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C		1.3		2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV RACK RECEPTACLE	4
5	GFI RECEPTACLES	1	0.5	20	2#12 & 1#12EG IN 3/4"C			1.4	2#12 & 1#12EG IN 3/4"C	20	0.9	1	CLASSROOM RECEPTACLE	6
7	AV RACK RECEPTACLE	1	0.5	20	2#12 & 1#12EG IN 3/4"C	1.4			2#12 & 1#12EG IN 3/4"C	20	0.9	1	OFFICE RECEPTACLES	8
9	GFI RECEPTACLES	1	0.5	20	2#12 & 1#12EG IN 3/4"C		1.3		2#12 & 1#12EG IN 3/4"C	20	0.7	1	CLASSROOM RECEPTACLES	10
11	CLASSROOM RECEPTACLES	1	0.7	20	2#12 & 1#12EG IN 3/4"C			1.3	2#12 & 1#12EG IN 3/4"C	20	0.6	1	PROJECTOR RECEPTACLES	12
13	AV RACK RECEPTACLE	1	0.4	20	2#12 & 1#12EG IN 3/4"C	0.9			2#12 & 1#12EG IN 3/4"C	20	0.5	1	GFI RECEPTACLES	14
15	RECEPTACLES	1	1.1	20	2#12 & 1#12EG IN 3/4"C		1.4		2#12 & 1#12EG IN 3/4"C	20	0.3	1	MONITOR RECEPTACLE	16
17	AV RACK RECEPTACLE	1	0.4	20	2#12 & 1#12EG IN 3/4"C			1.6	2#12 & 1#12EG IN 3/4"C	20	1.2	1	EWC RECEPTACLES	18
19	STORAGE RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C	1.3			2#12 & 1#12EG IN 3/4"C	20	0.4	1	RECEPTACLES & EF-A	20
21	GALLERY RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C		1.5		2#12 & 1#12EG IN 3/4"C	20	0.6	1	PROJECTOR RECEPTACLES	22
23	AV RACK RECEPTACLE	1	0.4	20	2#12 & 1#12EG IN 3/4"C			0.7	2#12 & 1#12EG IN 3/4"C	20	0.4	1	AV RACK RECEPTACLE	24
25	GALLERY RECEPTACLES	1	0.9	20	2#12 & 1#12EG IN 3/4"C	1.5			2#12 & 1#12EG IN 3/4"C	20	0.6	1	MONITOR RECEPTACLES	26
27	CORRIDOR RECEPTACLES	1	1.1	20	2#12 & 1#12EG IN 3/4"C		1.3		2#12 & 1#12EG IN 3/4"C	20	0.2	1	COLUMN WIREMOLD	28
29	MOTOR OPERATED DAMPERS	1	1.0	20	2#12 & 1#12EG IN 3/4"C			1.2	2#12 & 1#12EG IN 3/4"C	20	0.2	1	COLUMN WIREMOLD	30
31	FAN COIL UNITS	1	0.5	20	2#12 & 1#12EG IN 3/4"C	0.7			2#12 & 1#12EG IN 3/4"C	20	0.2	1	COLUMN WIREMOLD	32
33	FAN COIL UNITS	1	0.6	20	2#12 & 1#12EG IN 3/4"C		0.6			20		1	SPARE	34
35	FAN COIL UNITS	1	0.6	20	2#12 & 1#12EG IN 3/4"C			0.6		20		1	SPARE	36
37	AHU-033	2	0.8	15	3#12 & 1#12EG IN 3/4"C	0.8				20		1	SPARE	38
39			0.8				0.8			20		1	SPARE	40
41	DATA RACK QUAD	1	1.0	20	2#12 & 1#12EG IN 3/4"C			1.0		20		1	SPARE	42
					TOTAL (PHASE):	7.8	8.1	7.8						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN LUGS ONLY
INTERRUPTING RATING: 65KA SYM.
FED FROM: EXISTING PANEL

TOTAL CONNECTED LOAD.:	23.7	KVA
	65.7	AMPS

NOTES
1. ALL BUSING TO BE COPPER
2. BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

RELOCATED NEW PANEL PPN

(EXISTING)

JOB NAME: PRINCETON HIGH SCHOOL
RATING: 208/120V, 3 PH, 4W, 225A
JOB NO.: 23463.002
LOCATION: CONFERENCE ROOM

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	2
3	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	4
5	EXISTING SPARE (VERIFY)	2		30				0.0	EXTEND EXISTING	20		1	EMPTY SPACE	6
7						0.0			EXTEND EXISTING	20		1	EXISTING LOAD	8
9	EXISTING SPARE (VERIFY)	2		70			0.0		EXTEND EXISTING	20		1	EXISTING LOAD	10
11								0.0	EXTEND EXISTING	20		1	EXISTING LOAD	12
13	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	14
15	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	16
17	EXISTING LOAD	1		20	EXTEND EXISTING			0.0	EXTEND EXISTING	20		1	EXISTING LOAD	18
19	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	20
21	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	22
23	EXISTING LOAD	1		20	EXTEND EXISTING			0.0	EXTEND EXISTING	20		1	EXISTING LOAD	24
25	EXISTING SPARE (VERIFY)	3		20		0.0			EXTEND EXISTING	20		1	EXISTING LOAD	26
27							0.0		EXTEND EXISTING	20		1	EXISTING LOAD	28
29								0.0	EXTEND EXISTING	20		1	EXISTING LOAD	30
31	EXISTING SPARE (VERIFY)	3		20		0.0			EXTEND EXISTING	20		1	EXISTING LOAD	32
33							0.0		EXTEND EXISTING	20		1	EXISTING LOAD	34
35								0.0	EXTEND EXISTING	20		1	EXISTING LOAD	36
37	EXISTING SPARE (VERIFY)	3		20		0.0			EXTEND EXISTING	20		1	EXISTING LOAD	38
39							0.0		EXTEND EXISTING	20		1	EXISTING LOAD	40
41								0.0	EXTEND EXISTING	20		1	EXISTING LOAD	42
					TOTAL (PHASE):	0.0	0.0	0.0						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN LUGS ONLY
INTERRUPTING RATING: 65KA SYM.
FED FROM: EXISTING PANEL DPLV3

NOTES
1. **NEW PANEL TO REPLACE EXISTING AT NEW LOCATION. EXTEND ALL BRANCH CIRCUIT WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE AND OPERATIONAL RELOCATION.**
2. ALL BUSING TO BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.

RELOCATED NEW PANEL XX

(NEW)

JOB NAME: PRINCETON HIGH SCHOOL
RATING: 208/120V, 3 PH, 4W, 225A
JOB NO.: 23463.002
LOCATION: PASSAGE CORRIDOR

CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	2
3	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	4
5	EXISTING LOAD	1		20	EXTEND EXISTING			0.0	EXTEND EXISTING	20		1	EXISTING LOAD	6
7	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	8
9	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	10
11	EXISTING LOAD	1		20	EXTEND EXISTING			0.0	EXTEND EXISTING	20		1	EXISTING LOAD	12
13	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	14
15	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	16
17	EXISTING LOAD	1		20	EXTEND EXISTING			0.0	EXTEND EXISTING	20		1	EXISTING LOAD	18
19	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	20
21	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	22
23	EXISTING LOAD	1		20	EXTEND EXISTING			0.0	EXTEND EXISTING	20		1	EXISTING LOAD	24
25	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	26
27	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	28
29	EXISTING LOAD	1		20	EXTEND EXISTING			0.0	EXTEND EXISTING	20		1	EXISTING LOAD	30
31	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	32
33	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	34
35	EXISTING LOAD	1		20	EXTEND EXISTING			0.0	EXTEND EXISTING	20		1	EXISTING LOAD	36
37	EXISTING LOAD	1		20	EXTEND EXISTING	0.0			EXTEND EXISTING	20		1	EXISTING LOAD	38
39	EXISTING LOAD	1		20	EXTEND EXISTING		0.0		EXTEND EXISTING	20		1	EXISTING LOAD	40
41	EXISTING LOAD	1		20	EXTEND EXISTING			0.0	EXTEND EXISTING	20		1	EXISTING LOAD	42
					TOTAL (PHASE):	0.0	0.0	0.0						

PANEL TYPE: NEMA 1
MOUNTING: SURFACE
MAIN LUGS ONLY
INTERRUPTING RATING: 65KA SYM. E
FED FROM: EXISTING PANEL DPLV3 (FIELD VERIFY)

NOTES
1. **NEW PANEL TO REPLACE EXISTING AT NEW LOCATION. EXTEND ALL BRANCH CIRCUIT WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE AND OPERATIONAL RELOCATION.**
2. ALL BUSING TO BE COPPER WITH BOLT ON BREAKERS ONLY
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.
5. SHORT CIRCUIT RATING: PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.
6. **FIELD VERIFY EXISTING PANEL NAME WITH OWNER PRIOR TO SUBMITTING SHOP DRAWINGS FOR NEW NAMEPLATE.**

COPPER BRANCH CIRCUIT WIRE SIZING TABLES
208V - 3% VOLTAGE DROP

C/B TRIP		208V, 3P, 3W 120/208V, 3P, 4W			208V, 2P, 2W 120/208V, 2P, 3W				120V, 1P, 2W					
15	DISTANCE IN FEET	177	273	429	153	236	371	578	88	136	214	333	500	625
	MINIMUM WIRE SIZE	12	10	8	12	10	8	6	12	10	8	6	4	3
20	DISTANCE IN FEET	132	205	322	115	177	279	433	66	102	161	250	375	469
	MINIMUM WIRE SIZE	12	10	8	12	10	8	6	12	10	8	6	4	3
30	DISTANCE IN FEET	136	214	334	118	186	289	433	68	107	167	250	313	375
	MINIMUM WIRE SIZE	10	8	6	10	8	6	4	10	8	6	4	3	2
40	DISTANCE IN FEET	161	250	375	139	217	325	406	80	125	188	234	281	352
	MINIMUM WIRE SIZE	8	6	4	8	6	4	3	8	6	4	3	2	1
50	DISTANCE IN FEET	129	200	300	111	173	260	325	64	100	150	188	225	281
	MINIMUM WIRE SIZE	8	6	4	8	6	4	3	8	6	4	3	2	1
60	DISTANCE IN FEET	167	250	313	144	217	271	325	83	125	156	188	234	
	MINIMUM WIRE SIZE	6	4	3	6	4	3	2	6	4	3	2	1	
70	DISTANCE IN FEET	214	268	322	186	232	279	348	107	134	161	201		
	MINIMUM WIRE SIZE	4	3	2	4	3	2	1	4	3	2	1		
80	DISTANCE IN FEET	188	235	281	163	203	244	305	94	117	141	176		
	MINIMUM WIRE SIZE	4	3	2	4	3	2	1	4	3	2	1		
90	DISTANCE IN FEET	208	250	313	181	217	271		104	125	156			
	MINIMUM WIRE SIZE	3	2	1	3	2	1		3	2	1			
100	DISTANCE IN FEET	188	225	281	163	195	244		94	113	141			
	MINIMUM WIRE SIZE	3	2	1	3	2	1		3	2	1			

NOTES:

1. READ ACROSS TO THE RIGHT FROM C/B TRIP TO DESIRED VOLTAGE CHARACTERISTICS AND NEXT GREATER DISTANCE THAN CIRCUIT IN QUESTION.
2. READ DOWN TO MINIMUM WIRE SIZE.
3. DISTANCES ARE TO THE CENTER OF CONCENTRATED LOAD SUCH AS CLASSROOM LIGHTING OR THE MIDPOINT OF DISTRIBUTED LOAD SUCH AS CORRIDOR LIGHTING.
4. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INCREASED IN SIZE PROPORTIONATELY PER N.E.C.

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William D. H
Architect
2/06/26
Date

Project Name
Renovations to Princeton High School

Project Owner Name
Princeton Public Schools

Project Location
151 Moore Street,
Princeton, NJ
08540

Project Number
5516A2
Project Date
02.06.2026
Checked By
AHG
Drawn By
AF / AMP
Scale
AS NOTED

Drawing Name
ELECTRICAL SCHEDULES, VOLTAGE DROP TABLE & DETAILS

Revisions		
No.	Date	Description

Drawing Number
E7.0