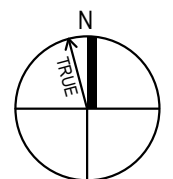
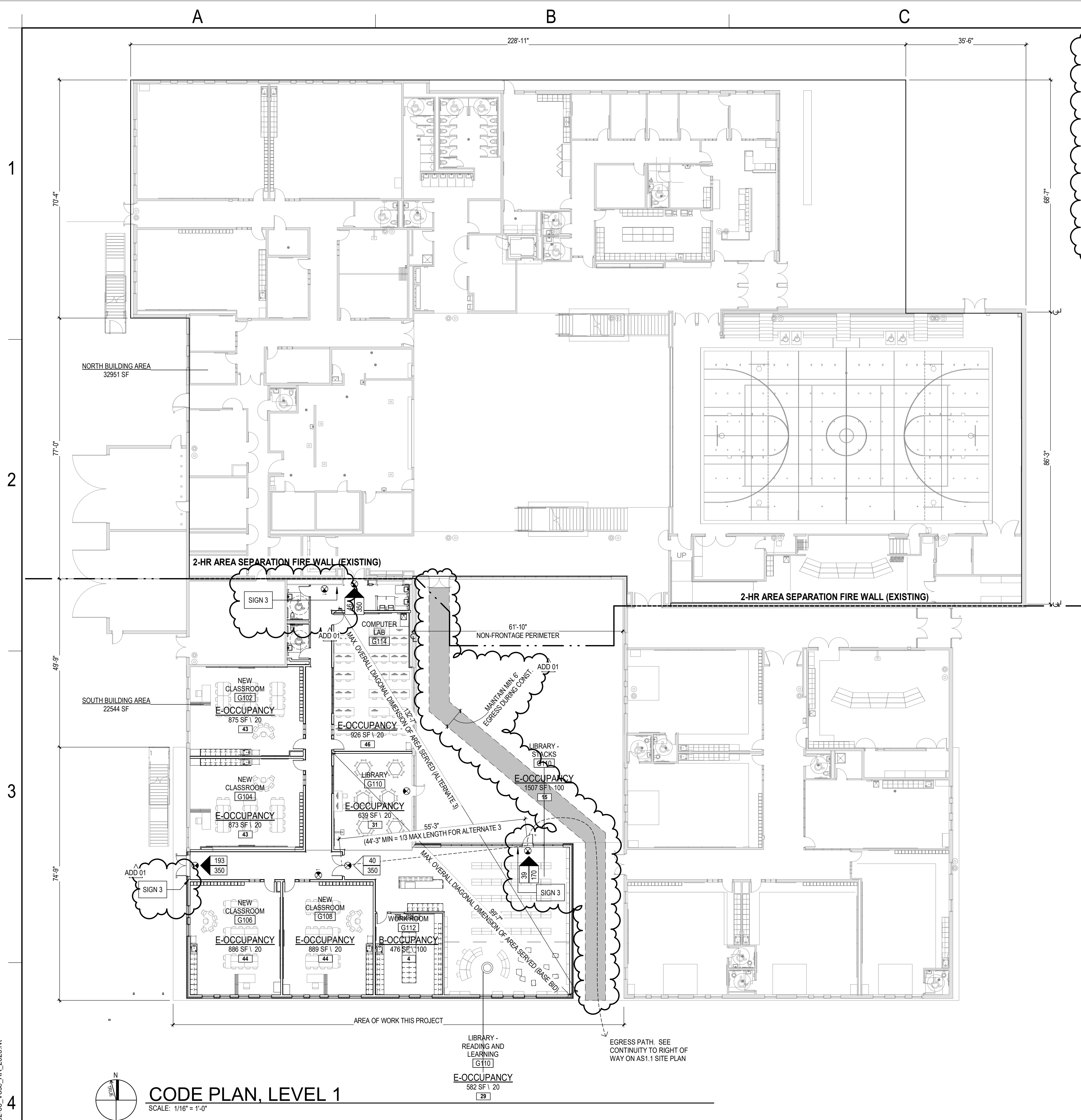


**11350 SW DENNEY RD
BEAVERTON, OR 97008**





CODE PLAN, LEVEL 1

SCALE: 1/16" = 1'-0"

ENERGY CODE ANALYSIS

Per 2019 OREGON ZERO ENERGY READY COMMERCIAL CODE (Chapter 13 of the 2019 OSSC)

Opaque Assemblies, per ASHRAE 90.1
R-30ci minimum = Roofs, Insulation entirely above deck
R-13 + R-7.5ci. minimum = Metal Framed walls above grade
R-7.5 minimum = Walls, Below Grade
R-15 for 24" = Slab-on-Grade Floors
U-0.70 maximum = Swinging Doors

Fenestration, per ASHRAE 90.1

U-0.36 maximum for fixed, operable, and doors with greater than 50% glazing
U-0.45 maximum for metal framing fixed fenestration (including curtain wall/storefront)
U-0.63 maximum for metal framing entrance doors
U-0.46 maximum for metal framing non-entrance doors (no operable windows in the project)
SHGC = 0.36 for fixed glazing elements
SHGC = 0.33 for operable glazing elements
Vertical fenestration area (not including opaque doors) shall not exceed 30% of above-grade wall

Skylights, per Table 502.3 (NO NEW SKYLIGHTS THIS PROJECT. EXISTING TO REMAIN.)
U=0.50 maximum
SHGC = 0.40
Skylight area shall not exceed 3% of roof area

Air Leakage Testing of fenestration and doors, per 502.3.5

Testing shall be done by an accredited, independent testing laboratory and labeled by the manufacturer

Air Barrier Testing, per 502.4.2

The completed building shall be tested and the air leakage rate of the building envelope shall not exceed 0.40 cfm per sf at a pressure differential of 0.3 inches water gauge in accordance with ASTM E779

Vestibules, per 502.4.6, shall be provided at exterior doors

Exception 1 - Doors not intended to be used as a building entrance door

Plumbing Fixtures

Per Table 2902.1

Educational Mode Occupant Load

- Assembly spaces (gym and cafeteria-commons) are considered non-concurrent use in the educational mode of operation.
- Total Occupant Load = 2020 occupants; 2020 occupants / sex = 1010 male and 1010 female occupants
- Required:
 - Male WC = 1 per 50 occupants = 1010/50 = 21 water closets
 - Female WC = 1 per 50 occupants = 1010/50 = 21 water closets
 - Lavs = 1 per 50 occupants = 2020/50 = 41 lavatories
- Provided:
 - Male WC = 23 (24 if Additive Alternate 1 is accepted)
 - Female WC = 27 (28 if Additive Alternate 1 is accepted)
 - Lavs = 41 (43 if Additive Alternate 1 is accepted)

BELOW IS FOR REFERENCE ONLY. NO CHANGES THIS PROJECT FOR ASSEMBLY MODE

- Assembly Mode Occupant Load = A-3 for indoor public events and activities; will not be used concurrently with educational occupancy mode.
- The majority of educational spaces will be closed to the public in this mode of operation. Rooms available in this mode of operation will include the office area, gym (and associated storage and office spaces), stage (and associated storage space), cafeteria / commons (and associated storage spaces), kitchen (and associated storage spaces), and the library (and associated workrooms and computer lab).
 - Total Occupant Load = 1437 occupants; 1437 occupants / sex = 719 male and 719 female
 - Required:
 - Male WC = 1 per 125 occupants = 719/125 = 6 WC
 - Female WC = 1 per 65 occupants = 719/65 = 12 WC
 - Lavatories = 1 per 200 occupants = 1437/200 = 8 Lavs
 - Provided:
 - Male WC = 3 WC and 4 Unials
 - Female WC = 11 WC + 1 unisex restroom
 - Lavs = 11

SYMBOL LEGEND

- ### - OCCUPANCY LOAD
- ⊕ - ACCESSORY USE AREA (OCCUPANCY LOAD IS NOT INCLUDED IN LOADS BEYOND THIS ROOM)
- 0 0 - COMBINED OCCUPANT LOAD AT A GIVEN DOOR OR STAIR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2 THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS: WIDTH IN INCHES DIVIDED BY 0.3)
- 0 0 - COMBINED OCCUPANT LOAD AT A GIVEN EXIT DOOR. (SUM OF THESE EQUALS TOTAL OCCUPANT LOAD) TOTAL EXIT CAPACITY OF DOOR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2)
- PD - PANIC DEVICE
- XX MIN - DOOR FIRE RATING
- ⊕ - EXIT SIGN
- ⊕ - EXIT SIGN WITH ARROW

WALL SEPARATION LEGEND

WALL HOURLY RATING		WALL FIRE RATING TYPE
0 = 0 HOUR	■■■■■■■■■■	C = CORRIDOR
5 = 1/2 HOUR	■■■■■■■■■■	EW = EXTERIOR WALL
1 = 1 HOUR	■■■■■■■■■■	FB = FIRE BARRIER
2 = 2 HOUR	■■■■■■■■■■	FP = FIRE PARTITION
3 = 3 HOUR	■■■■■■■■■■	FW = FIRE WALL
4 = 4 HOUR	■■■■■■■■■■	HX = HORIZONTAL EXIT
SP = SMOKE PARTITION	■■■■■■■■■■	SB = SMOKE BARRIER
		VS = VERTICAL SHAFT
		VX = VERTICAL EXIT
		XP = EXIT PASSAGEWAY

BUILDING CODE ANALYSIS

Applicable Codes

- 2019 Oregon Structural Specialty Code
- 2019 Oregon Zero Energy Ready Commercial Code (ASHRAE Standard 90.1)
- 2009 ICC / ANSI A117.1 Accessibility Code
- 2019 Oregon Mechanical Specialty Code
- 2017 Oregon Plumbing Specialty Code
- 2017 Oregon Electrical Specialty Code
- 2019 Oregon Fire Code
- Washington County Environmental Health

Deferred Submittals:

- Fire Sprinkler & Fire Alarm Design: Fire Alarm plan review and installation must be completed prior to final inspection per OFC 907.2.3.

Construction Type

Occupancy

- Business Group B (uses for office or service-type transactions, including storage of records and accounts; counseling, administration, teacher offices, etc.)
- Education Group E (use by six or more personas at any one time for education purposes through the 12th grade)

Building Type:

- II-B

Fire Protection:

- Automatic sprinkler system installed in accordance with 903.3.1.1 or 903.3.1.2
- Emergency voice/alarm communication system in accordance with Section 907.5.2.2
- Fire Extinguisher Cabinets

Building element fire rating requirement (Per Table 601):

- 0 HR = Primary structural frame
- 0 HR = Bearing Walls, Exterior
- 0 HR = Bearing Walls, Interior
- 0 HR = Non-bearing walls and partitions, Exterior (Per Table 602), if greater than 10'-0" fire separation distance
- 0 HR = Non-bearing walls and partitions, Interior
- 0 HR = Floor construction and secondary members
- 0 HR = Roof construction and secondary members

Allowable Building Area

Definition:

- Area, Building: The area included within the surrounding exterior walls (or exterior walls and fire walls), exclusive of vent shafts and courts.
Areas of the building not provided with surroundings walls shall be included in the building area if such areas are included within the horizontal projection of the roof or floor above.

Allowable Building Area Calculation:

Per 506.1, the building areas indicated by Table 506.2 include:

Occupancy Classification	E
Type of Construction	II-B
Multiple Stories	SM
Tabular Allowable Area Factor (At)	43,500 SF

Proposed Building Area:

NOTE: This project involves south building Level 1 only. (See adjacent code plan diagram.)
South Building, Level 1 22,544 SF

Interior Finish Requirements

Controls, operating mechanisms and hardware intended for operation by the occupant, including switches that control lighting and ventilation and electrical convenience outlets, in accessible spaces, along accessible routes or as parts of accessible elements shall be accessible. Per Section 1109.13 (OSSC)

Combustible trim, excluding handrail and guardrails, shall not exceed 10 percent of the specific wall or ceiling area to which it is attached. Per Section 806.5 (OSSC)

Interior floor-wall base that is 6 inches or less in height shall be tested in accordance with Section 804.2 and shall not be less than Class II. Per Section 806.6 (OSSC)

Per Table 803.9

Per Table 2902.1

- Occupancy Type A-2
Class B = Vertical enclosures and exit passageways
Class B = Corridors
Class C = Rooms and enclosed spaces
- Occupancy Types B and E
Class B = Vertical enclosures and exit passageways
Class C = Corridors
Class C = Rooms and enclosed spaces

Definitions:

- Class B = Flame spread index 26-75; smoke developed index 0-450
- Class C = Flame spread index 76-200; smoke developed index 0-450

Occupant Loads

Maximum floor area allowances per occupant per Table 1004.1.1. See code plan for egress calculations per room.

Room	Floor Area in SF per Occupant
Assembly - Concentrated	7 net
Assembly - Unconcentrated	15 net
Classroom	20 net
Library - Reading rooms	50 net
Business areas	100 gross
Library - Stack area	100 gross
Kitchens, commercial	200 gross
Accessory storage areas, mechanical equipment room	300 gross

Means of Egress

Minimum egress width per 1005.1:

- Stairways 0.3 inches per occupant
- Other egress components 0.2 inches per occupant

Maximum Common Path of Egress Travel (per Table 1014.3 with sprinkler system):

- 100 ft = B Occupancy
- 75 ft = E Occupancy
- 30 ft = A Occupancy with fixed seating per 1028.8

Maximum exit access travel distance (per Table 1016.2 with sprinkler system):

- 250 ft = A and E Occupancies
- 300 ft = B Occupancy

Corridors

- Fire-resistance = 0 HR per Table 1018.1 (A, E, and B Occupancy types with sprinkler system)

- Corridor width per Table 1018.2
44" minimum per 1005.1
72" minimum in Group E occupancy where the corridor has the required capacity of 100 or more

- 1018.4 Dead ends
- Where more than one exit or exit access doorway is required, the exit access shall be arranged such that there are no dead ends in corridors more than 20 feet.
-Exception 2 - In occupancies in Groups B and E, where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 the length of the dead-end corridors shall not exceed 50 feet.
-Exception 3 - A dead-end corridor shall not be limited in length where the length of the dead-end corridor is less than 2.5 times the least width of the dead-end corridor

Minimum Number of Exits

Occupant Load (persons per story)

- 1 - 500
- 501 - 1,000
- More than 1,000

Minimum number of exits (per story)

- 2
- 3
- 4

A

B

C

D

E

1

2

3

4

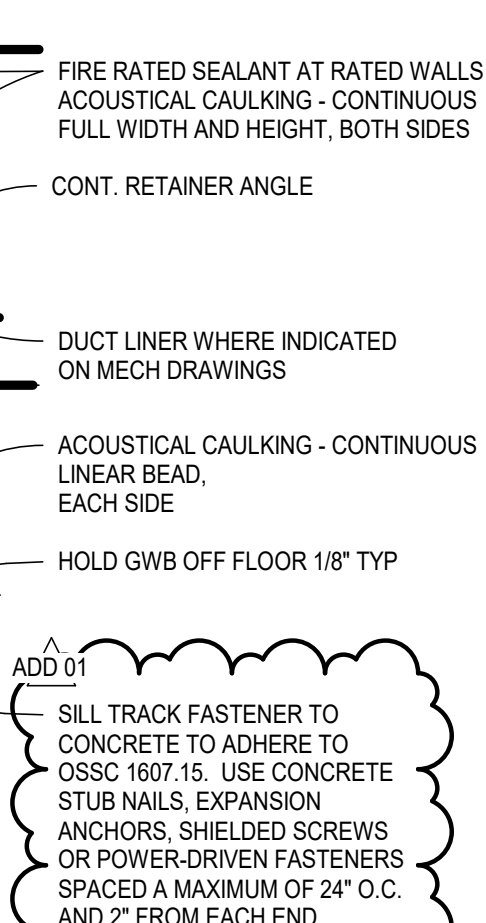
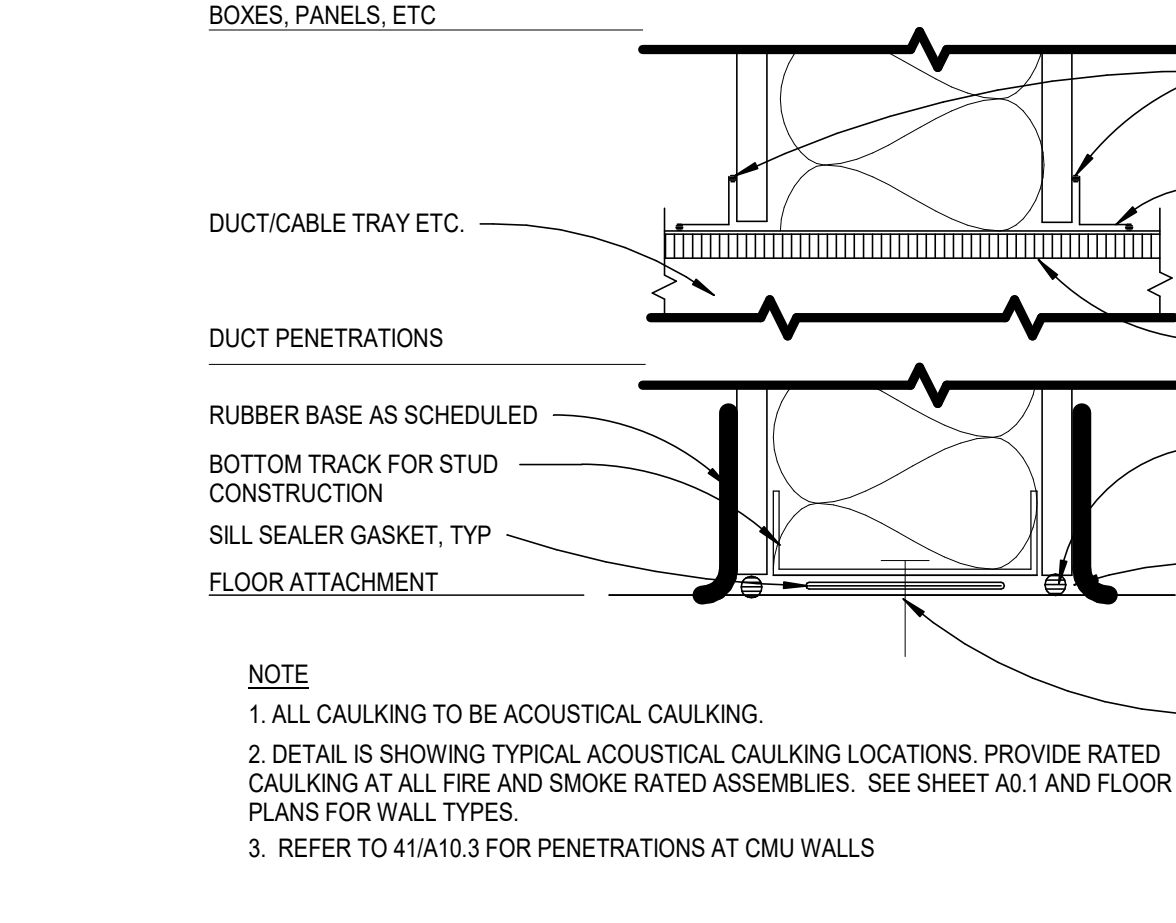
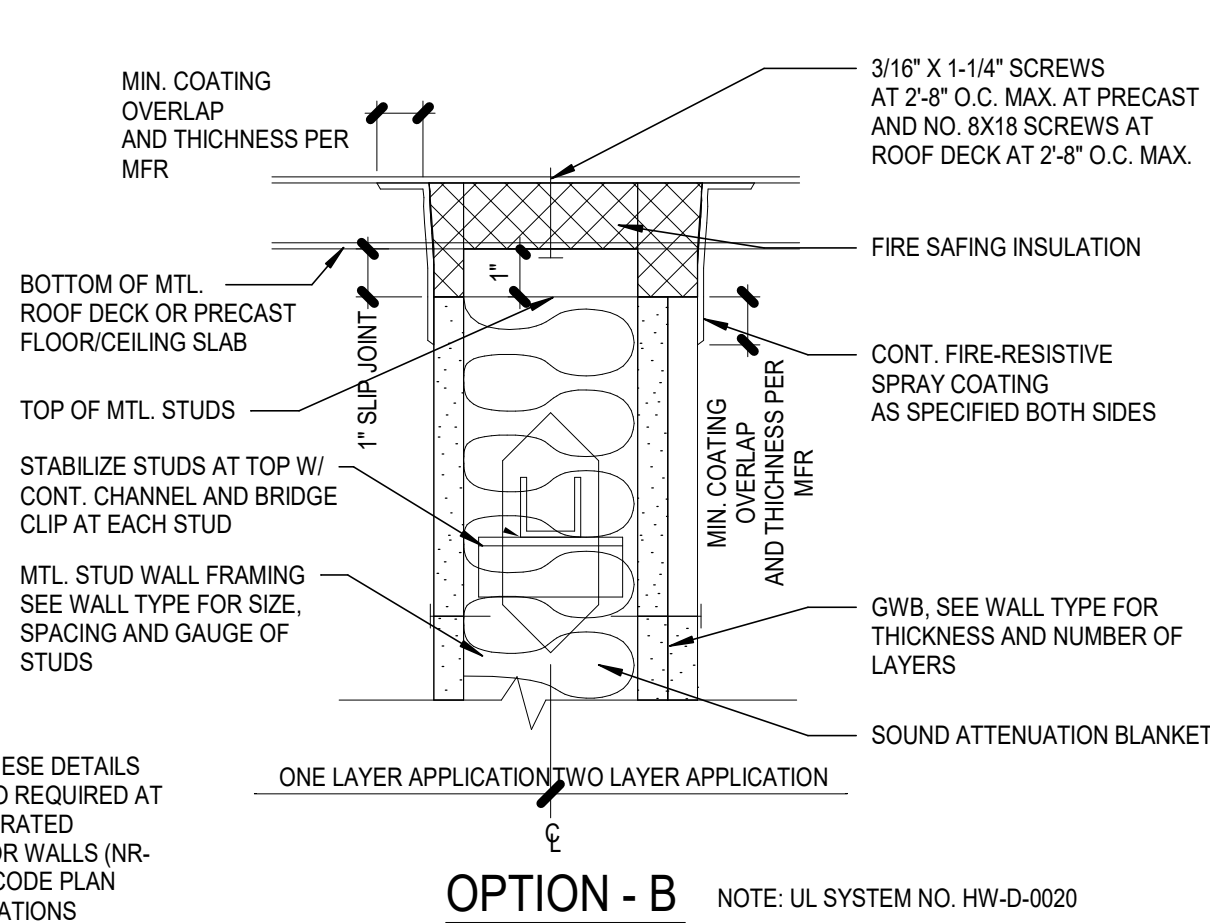
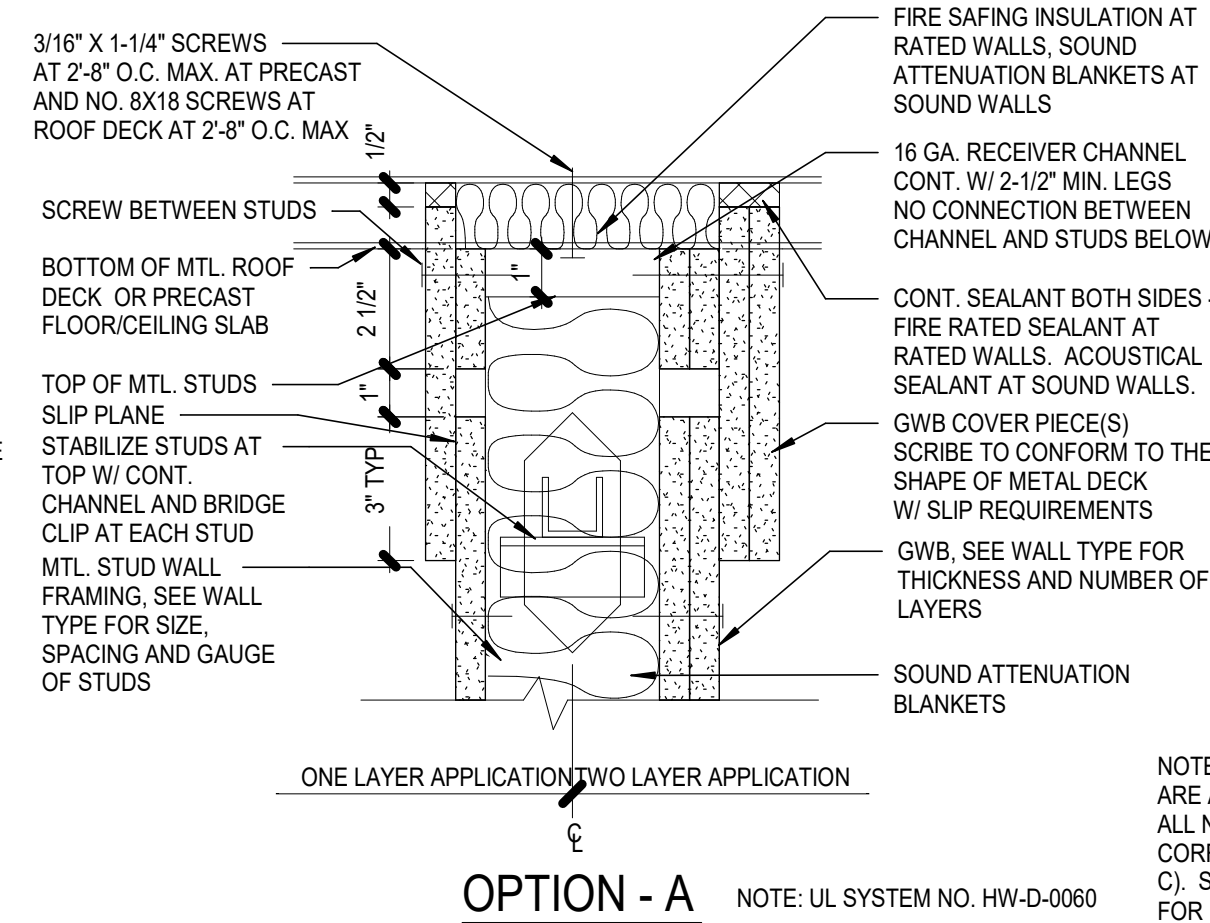
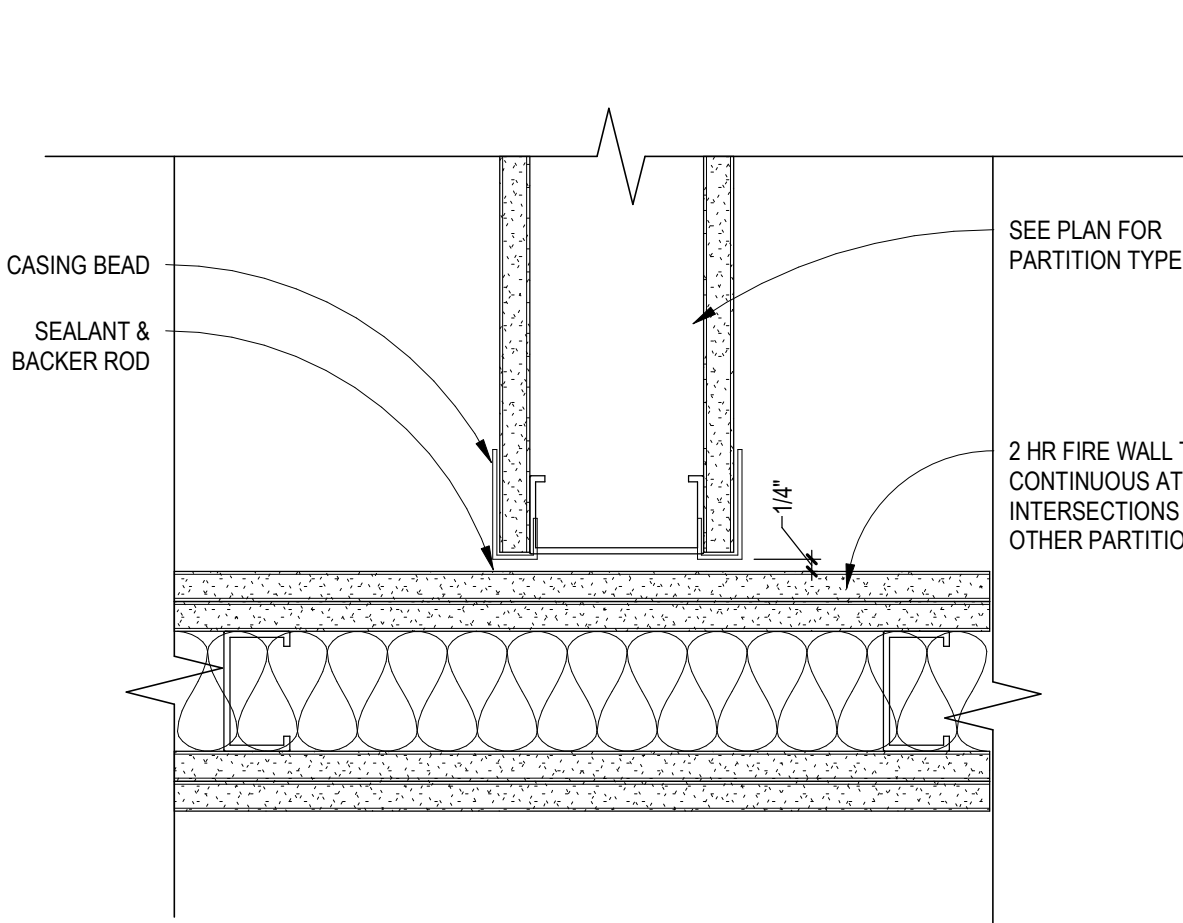
1A GYP BD PARTITION @ EXTERIOR WALL
A0.4 SCALE: 1 1/2" = 1'-0"

1B VERTICAL BLOCKING @ INTERIOR WALL
A0.4 SCALE: 3" = 1'-0"

1C HORIZONTAL BLOCKING @ INTERIOR WALL
A0.4 SCALE: 3" = 1'-0"

1D MULTIPLE PENETRATION FIRESTOP
A0.4 SCALE: 1 1/2" = 1'-0"

2A VERTICAL SLIP JOINT
A0.4 SCALE: 3" = 1'-0"



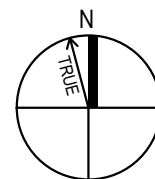
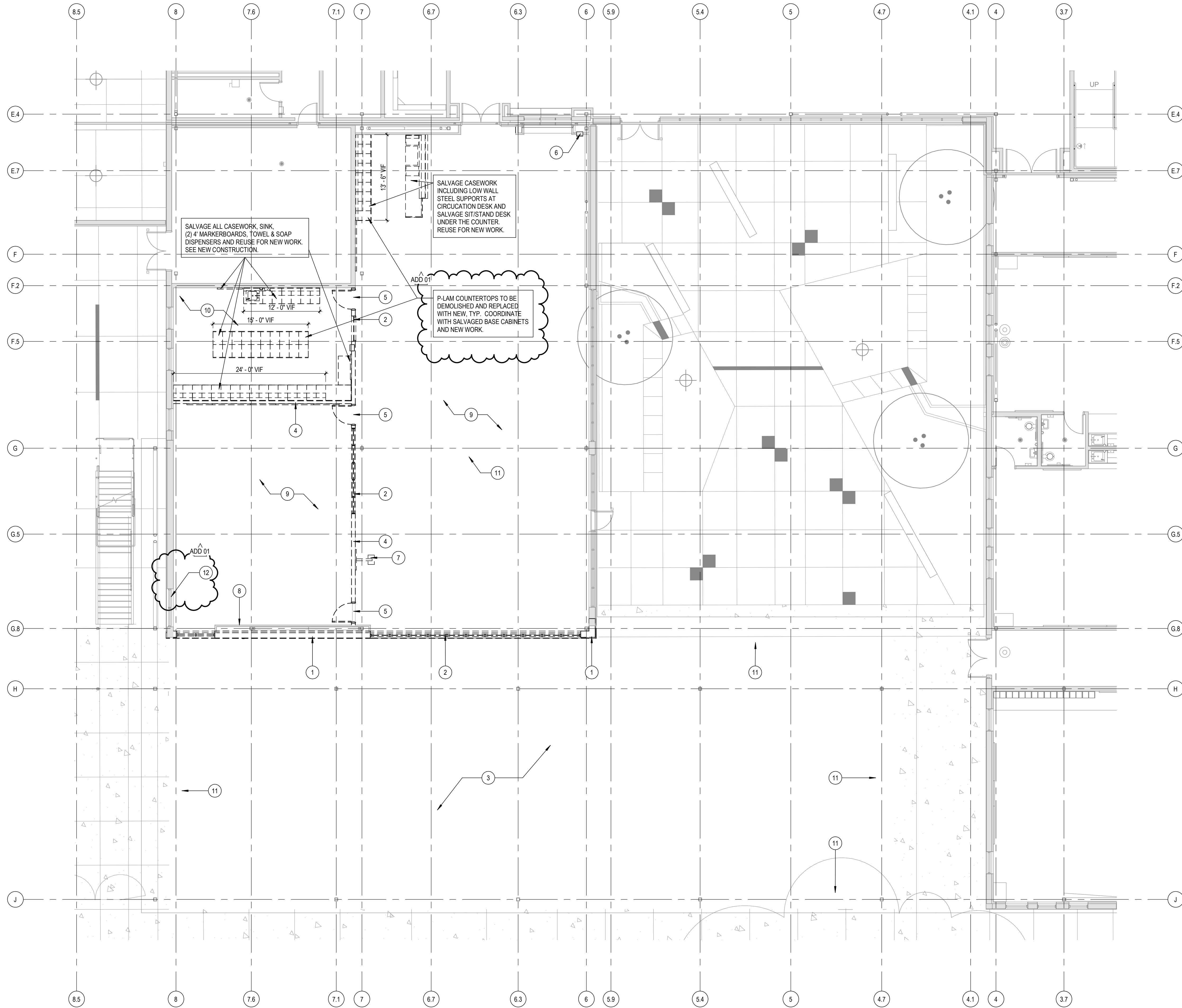
4A FIRE WALL/PARTITION INTERSECTION
A0.4 SCALE: 3" = 1'-0"

4B STUD WALL SLIP CONNECTION FOR SMOKESTOP AND FIRE-RATED WALLS
A0.4 SCALE: 1 1/2" = 1'-0"

4D HEAD, SILL & WALL PENETRATIONS
A0.4 SCALE: 3" = 1'-0"

- 1 WALL TYPE PER PLAN
- 2 ONE OR MORE PIPES, CONDUIT, OR TUBES MAY BE INSTALLED WITHIN THE OPENING. THE TOTAL NUMBER OF THROUGH-PENETRATIONS IS DEPENDENT ON THE SIZE OF THE OPENING AND THE TYPES AND SIZES OF THE PENETRATIONS. REFER TO UL W-L-8079 FOR ADDITIONAL RESTRICTIONS
- 3 ONE OF MORE METALLIC PENETRATIONS MAY BE INSULATED. REFER TO UL W-L-8079 FOR ADDITIONAL RESTRICTIONS
- 4 ONE MAX 3 IN. DIAM BUNDLE OF CABLES INSTALLED WITHIN THE OPENING. REFER TO UL W-L-8079 FOR ADDITIONAL RESTRICTIONS
- 5A MIN 4-3/4" THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL RECESSED FROM BOTH SURFACES OF THE WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL
- 5B PACKING MATERIAL MIN 1-1/4" THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED AS A BACKER AROUND THE PERIMETER OF OPENING AS A PERMANENT FORM. SEALANT 5/8" MIN THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL, AT THE POINT CONTACT LOCATION BETWEEN THROUGH PENETRANTS AND GYPSUM BOARD. A MIN 1/2" DIAM BEAN OF FILL MATERIAL SHALL BE APPLIED AT THE GYPSUM BOARD / THROUGH PENETRANT INTERFACE ON BOTH SURFACES OF WALL

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FIRST FLOOR DEMOLITION PLAN

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

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

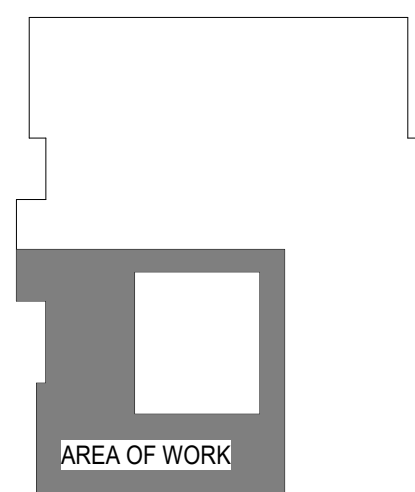
- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNERS' OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
- COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
- CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
- MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
- THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
- PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
- REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
- EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
- VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
- PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
- CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
- AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
- WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
- WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

REFERENCE KEYNOTES

SHEET NOTES

- DEMO EXTERIOR WALL
- DEMO GLAZING AND FRAME
- DEMO EXISTING EXTERIOR SLAB-ON-GRADE IN ITS ENTIRETY TAKING CARE NOT TO DAMAGE EXISTING COLUMNS, FOUNDATIONS, CONCRETE PEDESTALS, AND PROTECTIVE CONCRETE ENCASUREMENT AROUND EXISTING COLUMNS. SEE STRUCTURAL.
- DEMO INTERIOR PARTITION
- DEMO HM FRAME AND DOOR
- SALVAGE FIRE EXTINGUISHER AND RECESSED CABINET FOR NEW WORK
- SALVAGE WALL MOUNTED SHORT THROW PROJECTOR AND INSTALL IN NEW CONSTRUCTION
- PROTECT EXISTING BRACE FRAME FURRED WALL. PATCH AS NEEDED FOR NEW CONSTRUCTION.
- DEMO FINISH FLOOR (CARPET, VIF) AND WALL BASE
- DEMO FINISH FLOOR (VCT, VIF) AND WALL BASE
- NEATLY SAW CUT EXISTING SLAB-ON-GRADE AS REQUIRED TO INSTALL NEW FOOTINGS. REFER TO STRUCTURAL DRAWINGS FOR NEW FOOTINGS AND SLAB FINISH DETAIL.
- REPLACE IGU IN EXISTING SF FRAME TO BE TEMPERED

KEY PLAN



VOSE ES ADDITION

BEAVERTON SCHOOL DISTRICT

11350 SW DENNEY RD
BEAVERTON, OR 97008

100% CD
2/26/2021
REVISIONS
ADD 01 9/21/2021

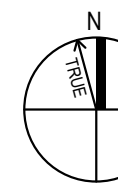
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FIRST FLOOR
DEMOLITION
PLAN

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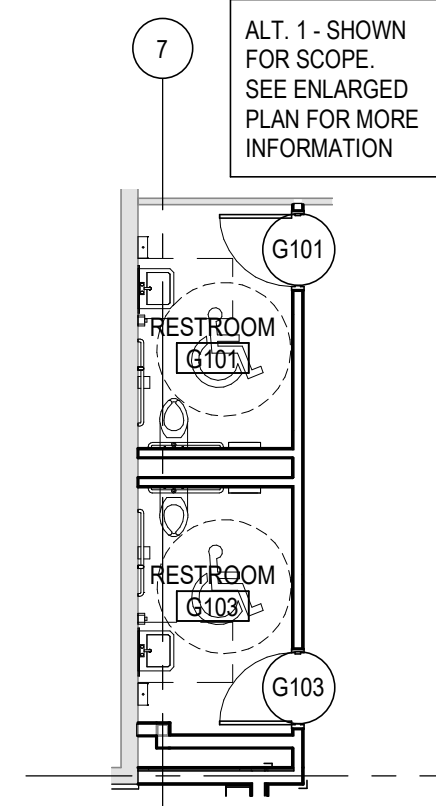
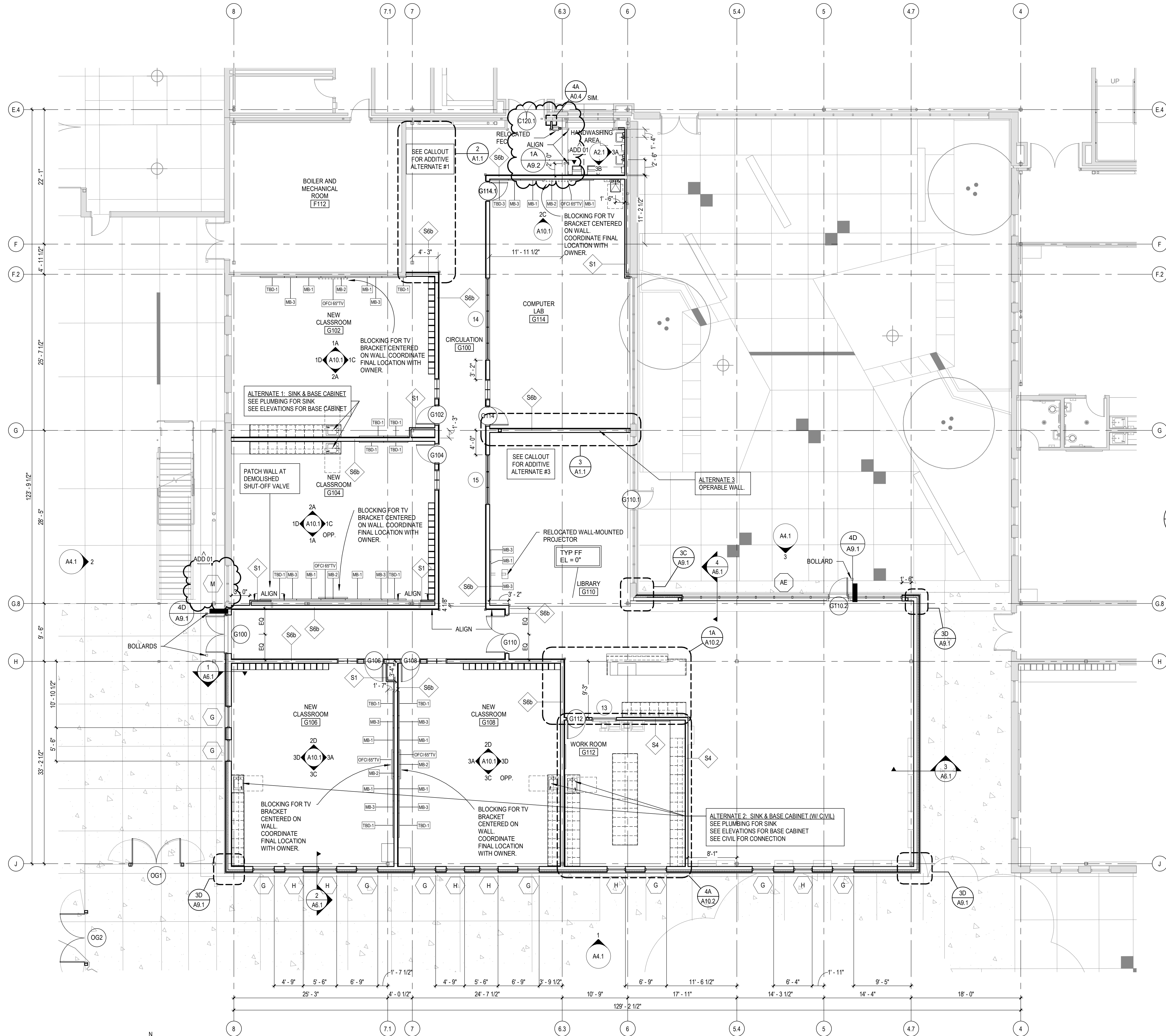


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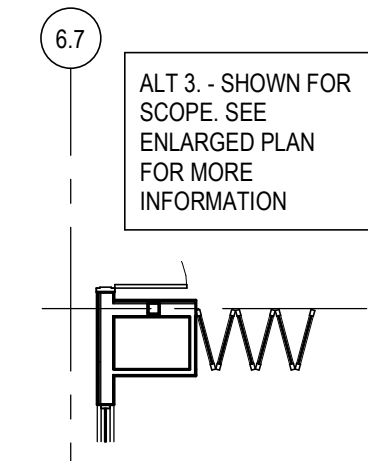


FIRST FLOOR PLAN

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



ALT. 1 - RR
SCALE: 1/8" = 1'-0"

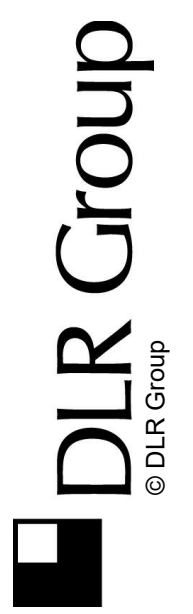
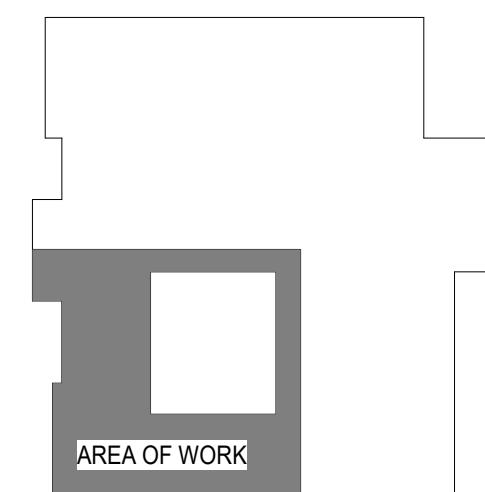


ALT. 3 - OPER. WALL
SCALE: 1/8" = 1'-0"

CASEWORK GENERAL NOTES:

- CASEWORK AND MILLWORK GENERAL NOTES APPLY TO ALL CASEWORK AND MILLWORK SHEETS.
- ELEVATIONS DENOTED AS MILLWORK ARE SPECIFIED UNDER DIVISION 06. OTHERS CONSIDERED CASEWORK SPECIFIED UNDER DIVISION 12, UNLESS NOTED OTHERWISE.
- BASE AND TALL STORAGE CABINETS: 24 INCHES DEEP, UNLESS NOTED OTHERWISE.
- WALL CABINETS: 14 INCHES DEEP, UNLESS NOTED OTHERWISE.
- TALL STORAGE UNITS TO BE 24 INCHES DEEP, UNLESS NOTED OTHERWISE.
- PROVIDE ADJUSTABLE SHELVING IN CASEWORK, UNLESS NOTED OTHERWISE.
- PROVIDE SUBSTRATE OF MARINE GRADE PLYWOOD FOR ALL COUNTERTOPS FITTED WITH SINKS.
- PROVIDE SUBSTRATE OF MDO FOR ALL COUNTERTOPS NOT FITTED WITH SINKS.
- INDICATES CASEWORK TO BE BID AS AN ALTERNATE. SEE PROJECT MANUAL FOR ALTERNATE DESCRIPTIONS.
- WHERE ELECTRICAL DEVICES ARE LOCATED IN CASEWORK, CASEWORK CONTRACTOR SHALL PROVIDE FINISHED OPENINGS. COORDINATE LOCATION AND QUANTITY WITH ELECTRICAL CONTRACTOR.
- PROVIDE JOINT SEALANT AT PERIMETER JOINTS WHERE COUNTERTOPS, BACK AND SIDE SPLASHES, CASEWORK, AND MILLWORK ABUT WALLS.
- FIELD VERIFY DIMENSIONS OF CABINET LOCATIONS IN BUILDING PRIOR TO FABRICATION.
- PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK AND MILLWORK.
- ALL EXPOSED SURFACES IN OPEN SHELVING SHALL BE PLASTIC LAMINATE COVERED.
- WHEN LINEAR PATTERN ON PLAM, SOLID SURFACE OR RESIN/PLASTIC PANELS OCCURS, PATTERN TO RUN VERTICALLY, UNLESS NOTED OTHERWISE.
- PROVIDE T-MOLDING AT ALL EXPOSED EDGES OF CABINETS, OR CUBBIES UNO, T-MOLDING TO MATCH COLOR OF ADJACENT PLAM UNO.
- PROVIDE WD-1 BEVELED HARDWOOD EDGE BAND AT ALL PLAM COUNTERTOPS. PROVIDE WF-1 SEALER ON EDGE BAND TYP.
- ALL CABINETS TO BE PLAM-1 UNO, ALL COUNTERTOPS & BACKSPLASH TO BE PLAM-2 UNO.
- FURNISH AND INSTALL FIRE-RETARDANT-TREATED WOOD BLOCKING IN STEEL STUD PARTITIONS FOR PROPER ANCHORAGE OF WALL ATTACHED ITEMS, I.E. TOILET ACCESSORIES, TOILET PARTITIONS, CASEWORK, MILLWORK, WAINSCOT PANELS, WALL-MOUNTED FIXTURES, MARKERBOARDS, TACKBOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, ETC.

KEY PLAN



VOSE ES ADDITION

BEAVERTON SCHOOL DISTRICT
11350 SW DENNEY RD
BEAVERTON, OR 97008

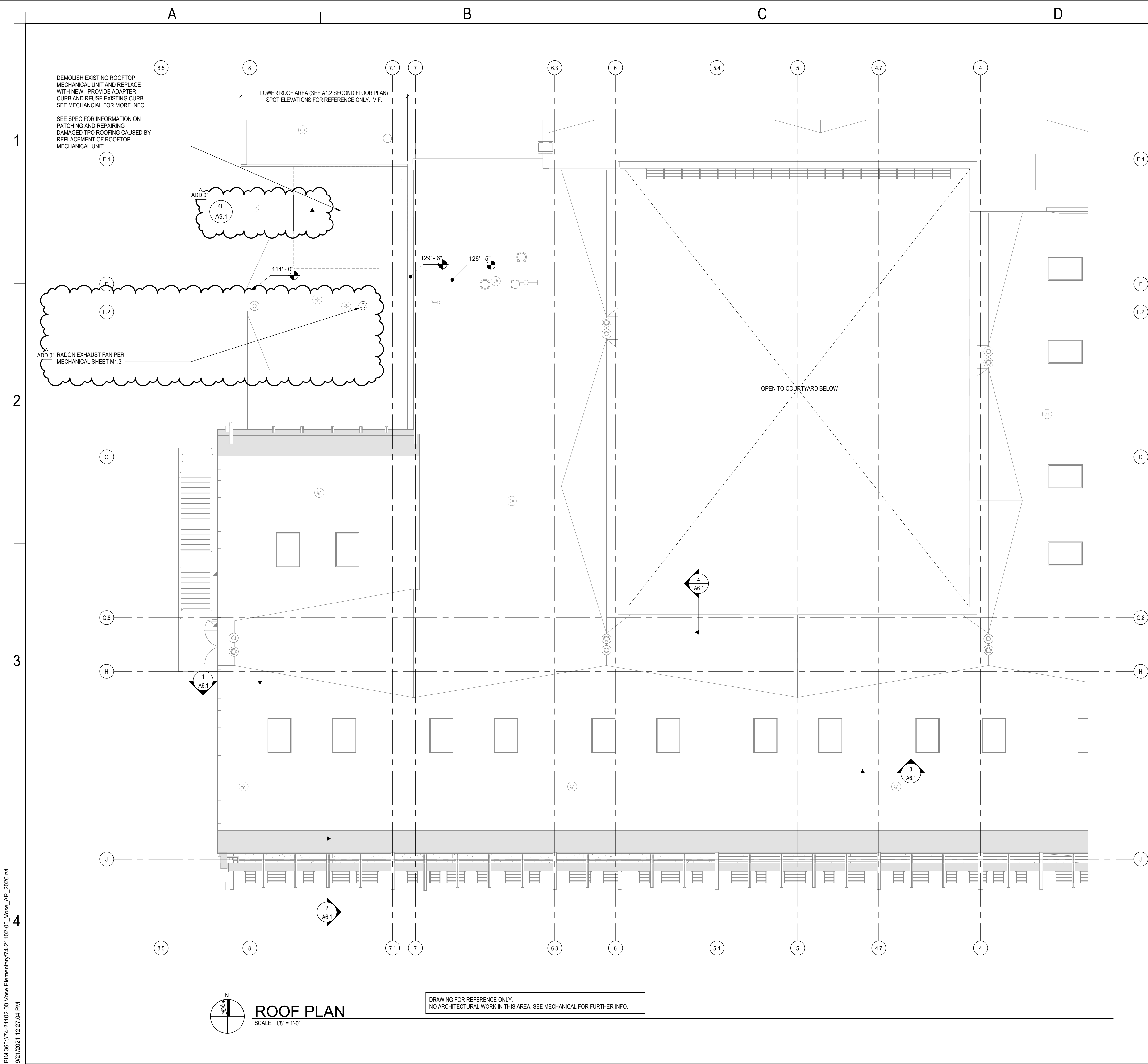
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2/26/2021
REVISIONS
ADD 01 9/21/2021

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FIRST FLOOR
PLAN

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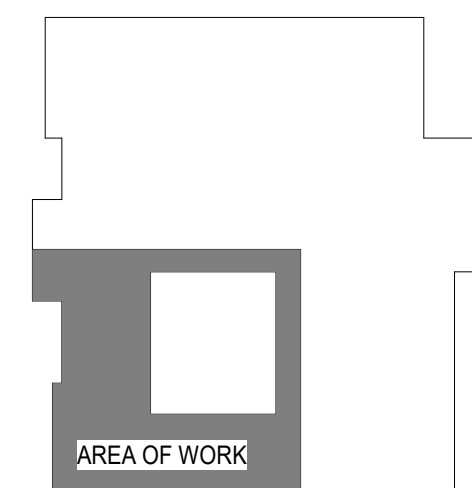
ROOF PLAN GENERAL NOTES

- ROOF PLAN GENERAL NOTES APPLY TO ALL ROOF PLAN SHEETS.
- ROOF SLOPES ARE CREATED BY SLOPING THE ROOF STRUCTURE UNLESS NOTED OTHERWISE. SEE STRUCTURAL DRAWINGS FOR ELEVATIONS OF THE HIGH AND LOW POINTS TO DETERMINE PROPER TAPER IN INSULATION.
- TAPERED INSULATION SHALL PROVIDE A MINIMUM OF 1/4-INCH PER FOOT OF SLOPE TO ROOF DRAINS, UNLESS NOTED OTHERWISE.
- AREAS MARKED WITH A HATCHED PATTERN INDICATE TAPERED INSULATION.
- ALL ROOF CURBS TO BE A MINIMUM OF 8 INCHES ABOVE ROOFING LEVELS. PROVIDE TAPERED INSULATION ROOF SADDLES AT ROOF CURBS TO PROVIDE DRAINAGE AROUND CURB.
- SEE STRUCTURAL DRAWINGS FOR FRAMING AROUND ROOF PENETRATIONS.
- COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- FLASH DRAINS, CURBS, VENTS AND STACKS PER MANUFACTURER'S RECOMMENDATIONS IF DETAIL NOT SHOWN ON DRAWINGS.
- NO ROOF PENETRATIONS ALLOWED WITHIN 4'-0" EACH SIDE OF FIREWALL. SEE CODE PLAN FOR FIRE WALL LOCATIONS.

REFERENCE KEYNOTES

SHEET NOTES

KEY PLAN



VOSE ES ADDITION

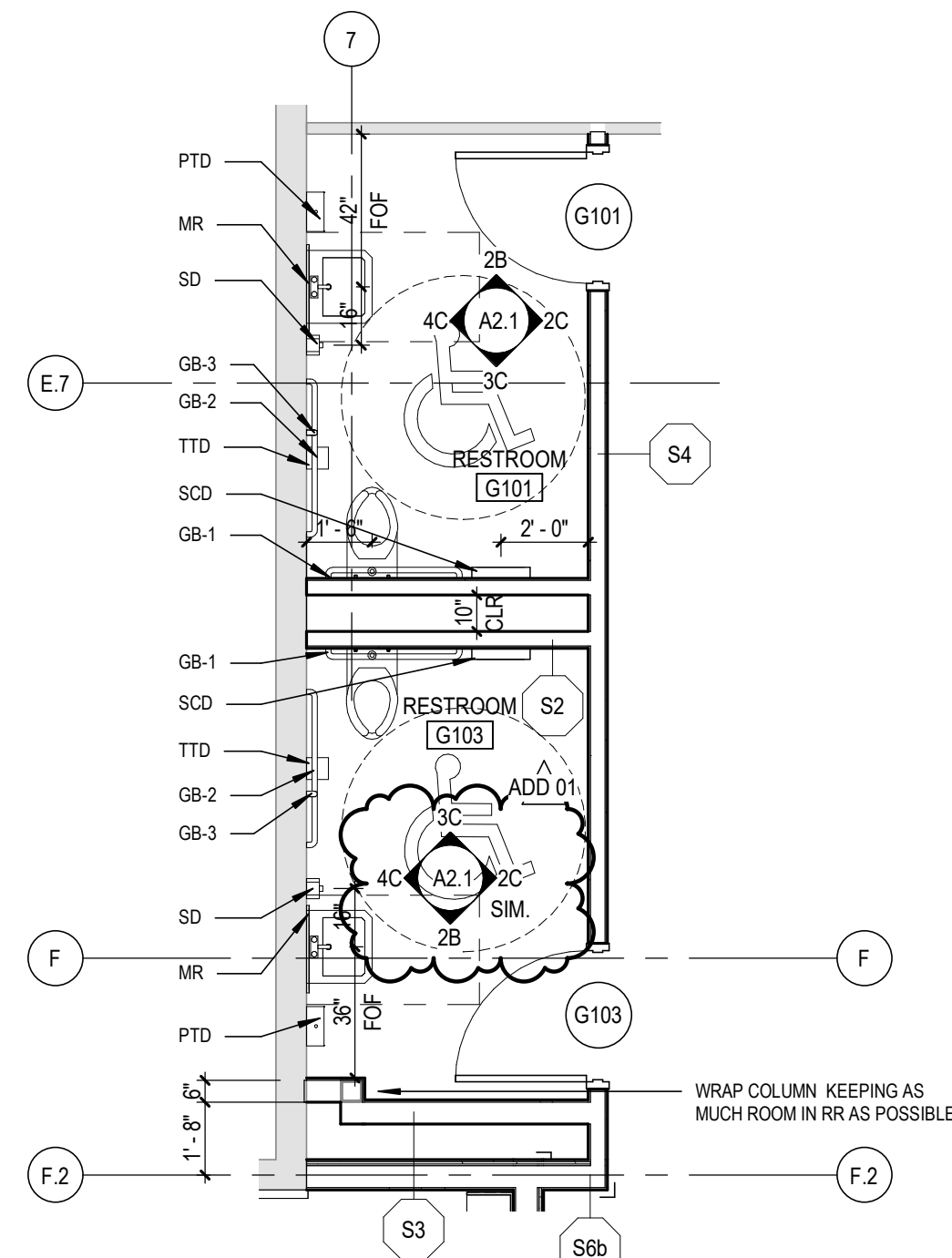
BEAVERTON SCHOOL DISTRICT
11350 SW DENNEY RD
BEAVERTON, OR 97008

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2/26/2021
REVISIONS
ADD 01 9/21/2021

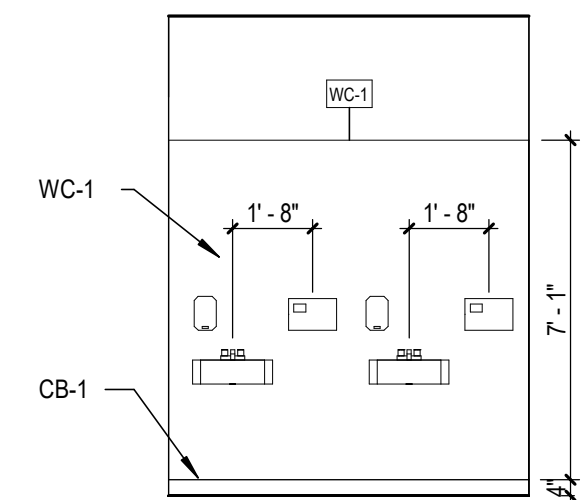
74-21102-00
ROOF PLAN

A1.3



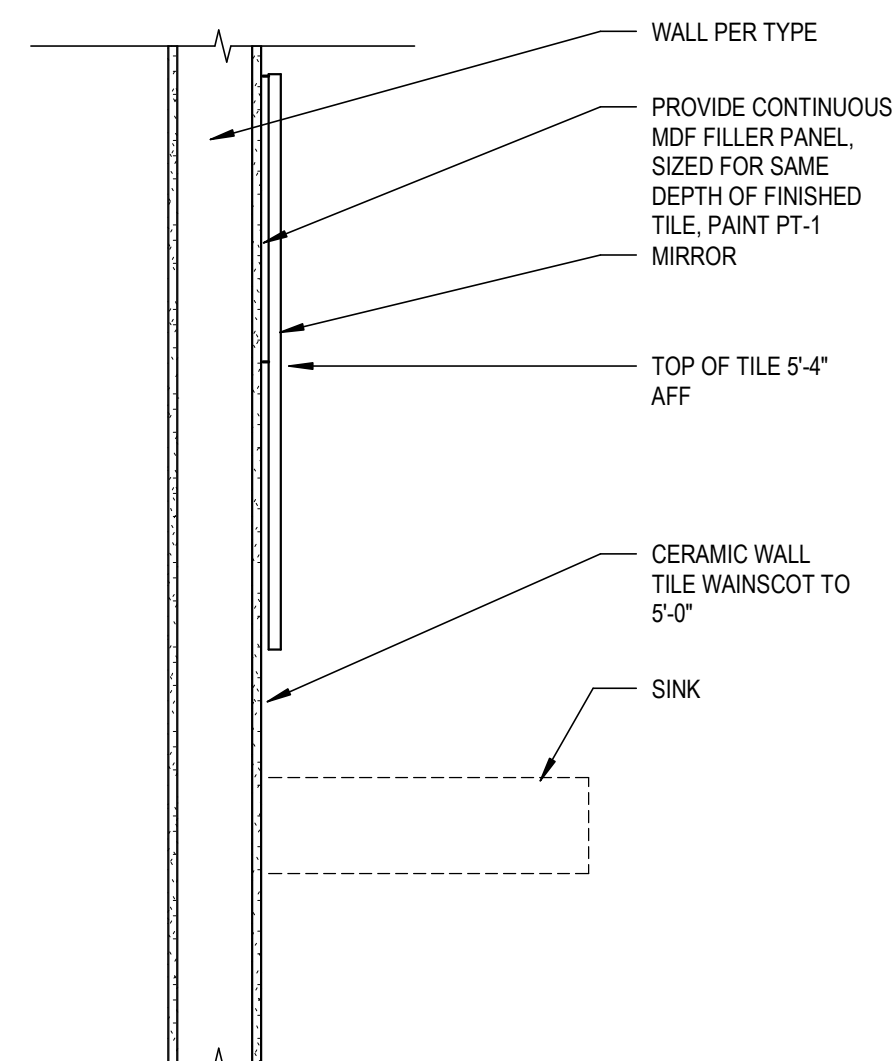


2A ENLARGED RESTROOMS - ALT. 1



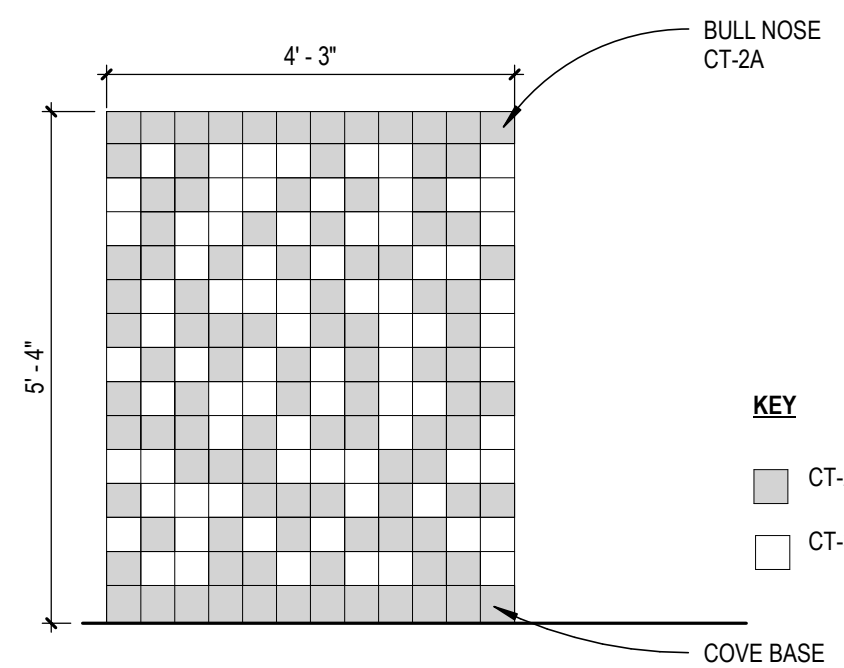
3A HANDWASHING AREA - E

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



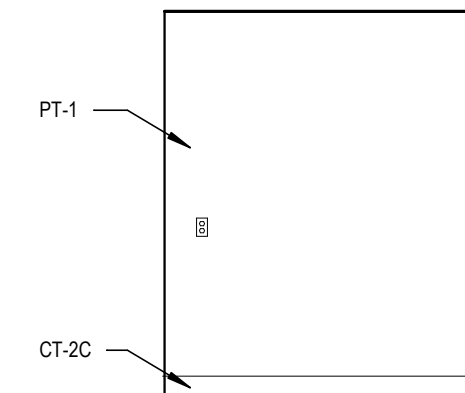
4A TYP. MIRROR MOUNTING PANEL

A2.1 SCALE: 1" = 1'-0"



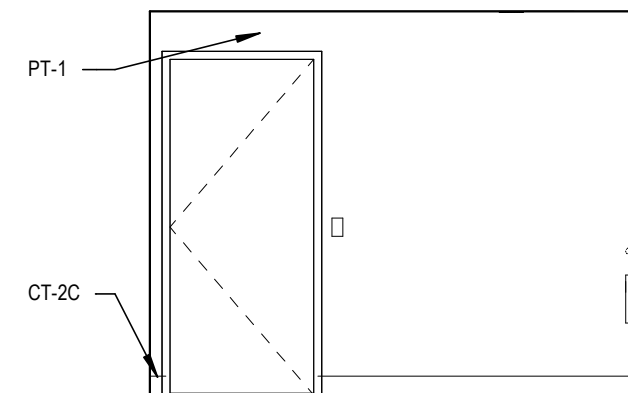
1B TYP. TILE PATTERN MODULE

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



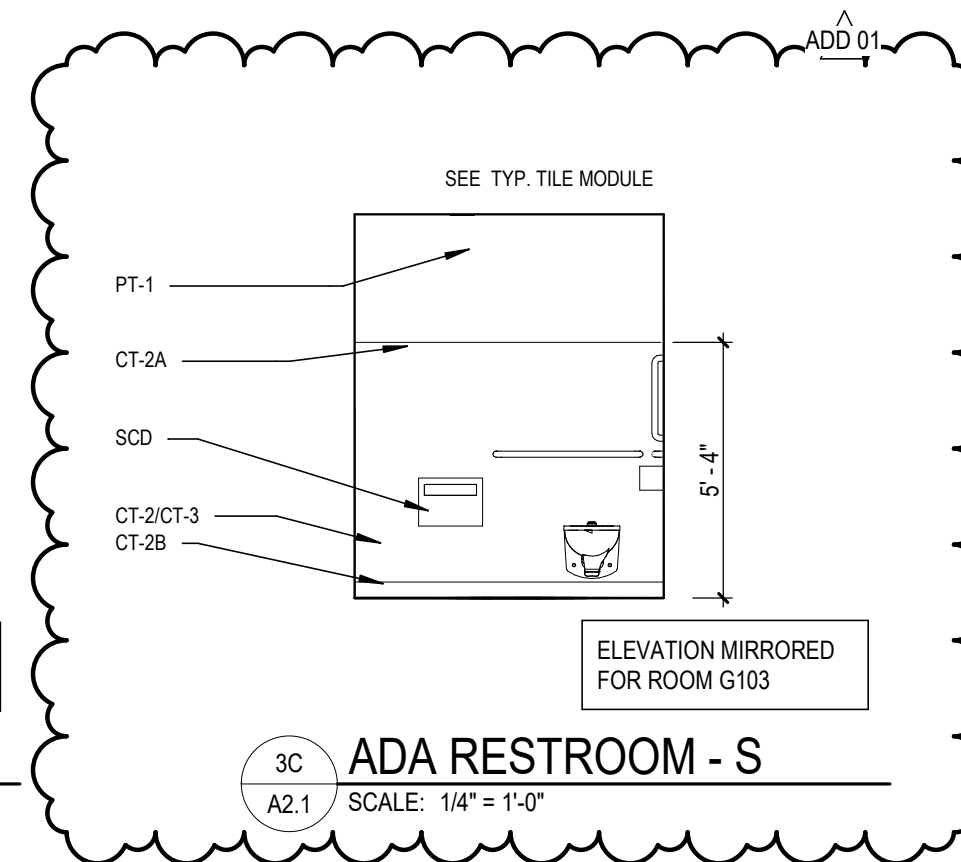
2B ADA RESTROOM - N

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



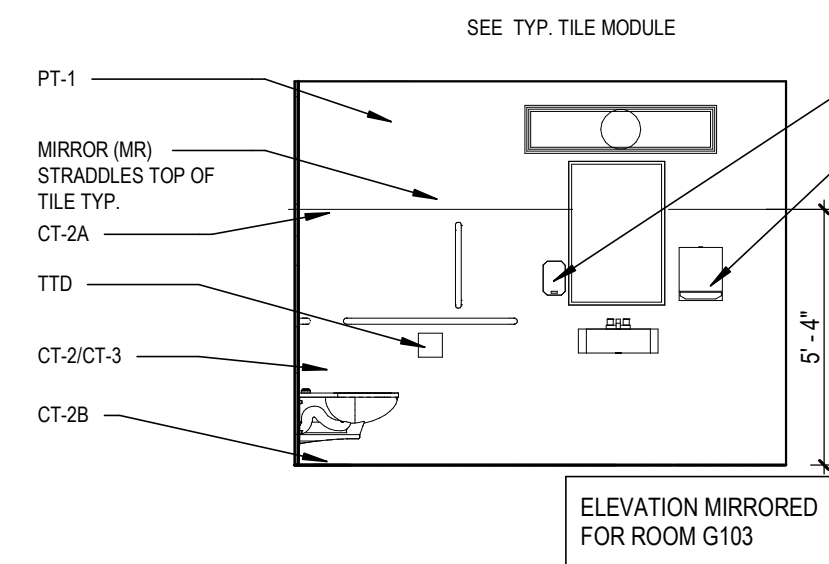
2C ADA RESTROOM - E

A2.1 SCALE: 1/4" = 1'-0"



3C ADA RESTROOM - S

A2.1 SCALE: 1/4" = 1'-0"



4C ADA RESTROOM - W

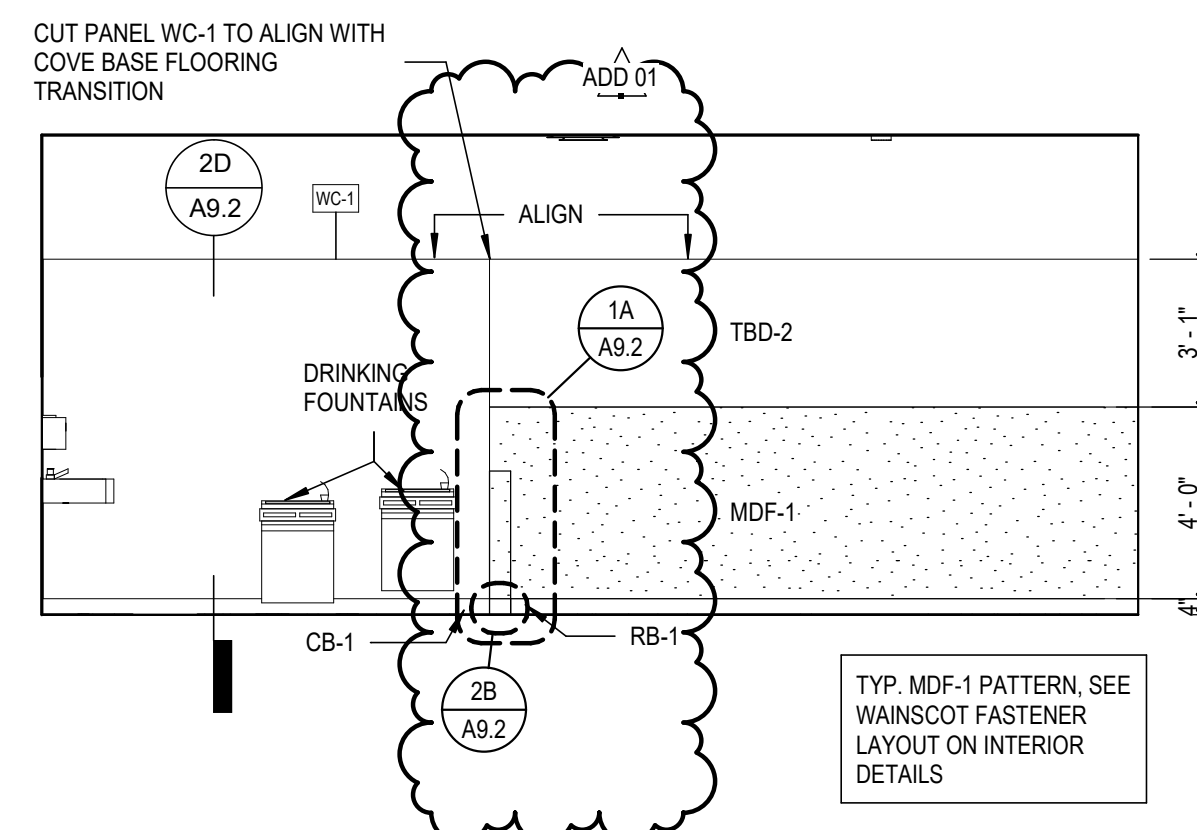
A2.1 SCALE: 1/4" = 1'-0"

GENERAL NOTES FOR ACCESSIBILITY

- A. ACCESSIBLE URINAL SHALL PROVIDE CLEAR FLOOR SPACE PER ADA SAD 2010 - 605.3
- B. ACCESSIBLE WATER CLOSETS SHALL PROVIDE CLEAR SPACE PER ADA SAD 2010 - 604.3.1
- C. ACCESSIBLE LAVATORIES AND SINKS SHALL PROVIDE CLEAR SPACE PER ADA SAD 2010 - 602.2
- D. ACCESSIBLE TOILET ROOMS SHALL PROVIDE A TURNING SPACE OF 60 INCHES IN DIAMETER PER ADA SAD 2010 - 304.3.1
- E. ACCESSIBLE WATER FOUNTAINS SHALL PROVIDE CLEAR FLOOR SPACE PER ADA SAD 2010 - 602.2
- F. ACCESSIBLE TOILET PARTITIONS SHALL COMPLY WITH ADA SAD 2010 - 604.8.1
- G. EXPOSED PIPES AND SURFACES UNDER LAVATORIES AND SINKS SHALL BE INSULATED PER ADA SAD 2010 - 606.5

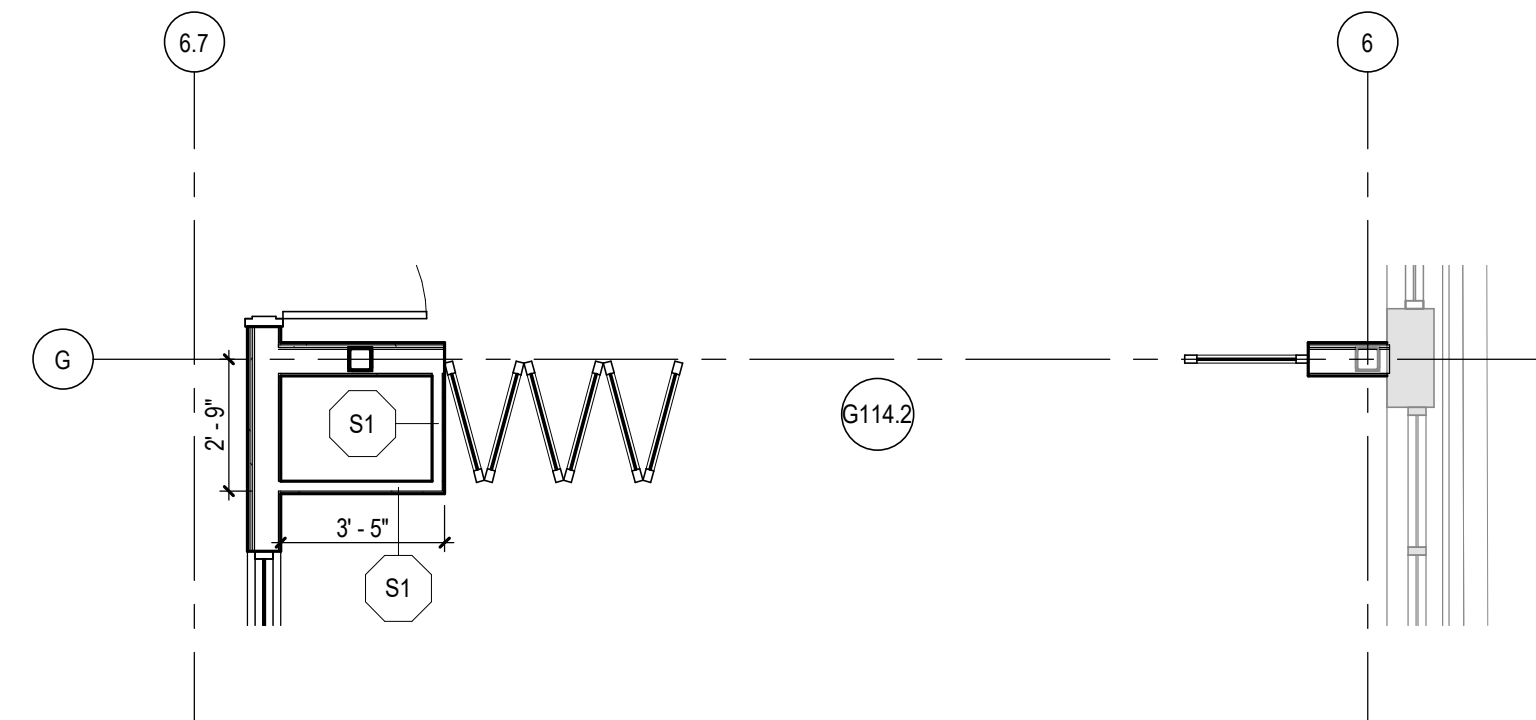
TOILET ACCESSORIES SCHEDULE

ABBREV.	DESCRIPTION
GB-1	GRAB BAR (SIDE WALL)
GB-2	GRAB BAR (BACK WALL)
GB-3	GRAB BAR (VERTICAL)
MR	MIRROR
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER
SCD	SEAT COVER DISPENSER
SD	LIQUID SOAP DISPENSER
TTD	SURFACE MOUNTED TOILET PAPER DISPENSER



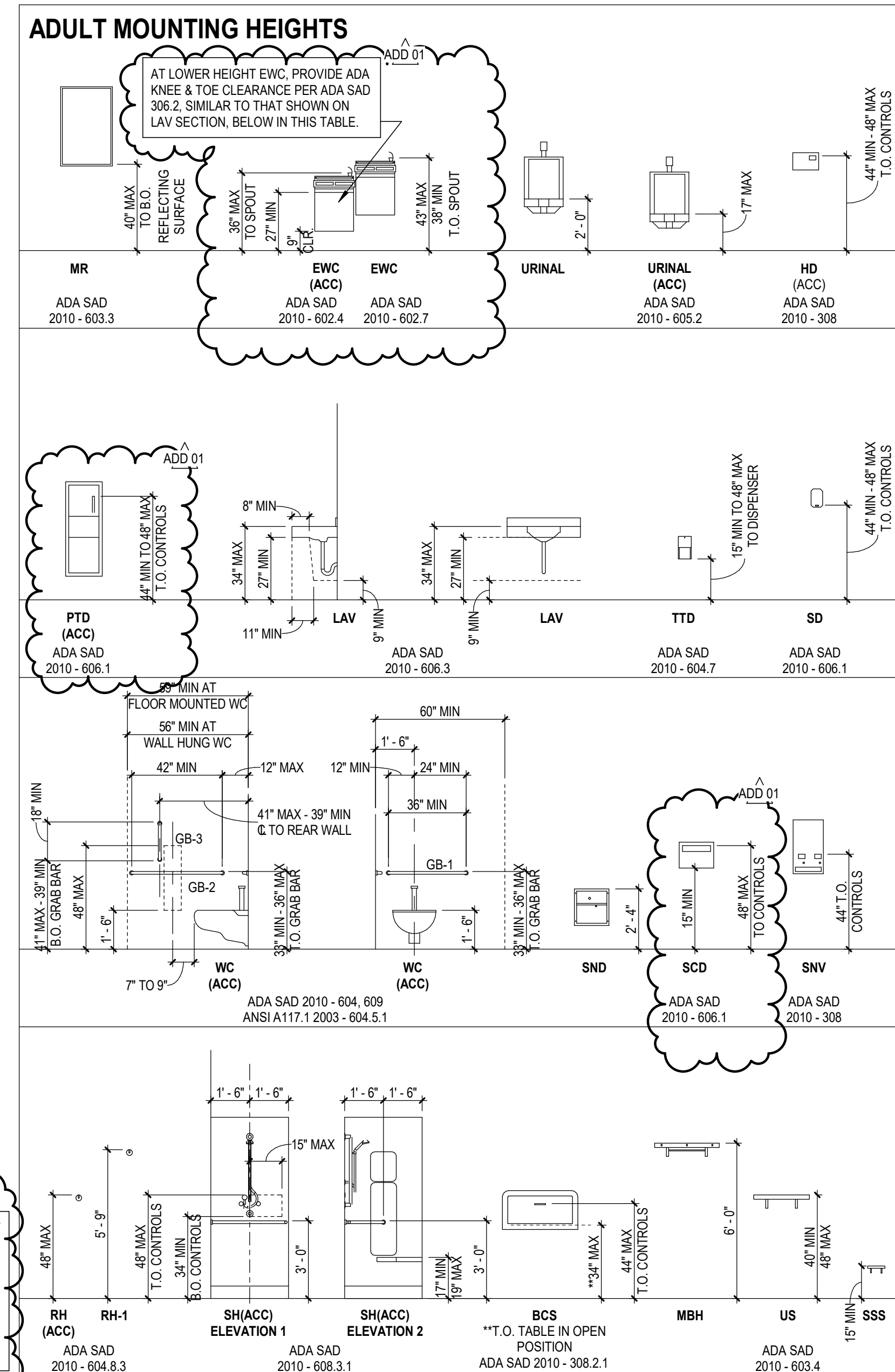
3B HANDWASHING AREA - S

A2.1 SCALE: 1/4" = 1'-0"



4B ENLARGED OPERABLE WALL - ALT. 3

A2.1 SCALE: 1/4" = 1'-0"



OPERABLE PARTS OF PAPER TOWEL AND SOAP DISPENSERS WILL COMPLY WITH THE ACCESSIBLE MOUNTING HEIGHTS AND REACH RANGES REQUIRED BY SECTION 603.6 (ICC A117.1-2009) AND SECTION I

KNEE AND TOE CLEARANCE DIMENSIONS BENEATH ACCESSIBLE CANTILEVER DRINKING FOUNTAINS TO BE AS DESCRIBED IN SECTION 602 AND AS DEPICTED IN FIGURE 602.2(a) AND (b) (ICC A117.1-2009)

PIPE PROTECTION AT ALL ACCESSIBLE SINK LOCATIONS

DOOR PANEL TYPES

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

INTERIOR FRAME ELEVATIONS

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

EXTERIOR FRAME ELEVATIONS

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

WINDOW SCHEDULE							
TYPE MARK	FRAME		DETAILS				COMMENTS
	DEPTH	MATERIAL	HEAD	JAMB LEFT	JAMB RIGHT	SILL	
13	5 3/4"	HM	1C/A8.4	3B/A8.4	3B/A8.4	3D/A8.4	
14	4 1/2"	HM	1C/A8.4	3B/A8.4	3B/A8.4	3D/A8.4	
AE	7 1/2"	ALUM	1E/A8.4	3E/A8.4	3E/A8.4	2E/A8.4	
F	4 1/2"	HM	1C/A8.4	3B/A8.4	3B/A8.4	3D/A8.4	
G	4 1/2"	ALUM	1E/A8.4	3E/A8.4	3E/A8.4	2E/A8.4	
H	4 1/2"	ALUM	1E/A8.4	3E/A8.4	3E/A8.4	2E/A8.4	
I	4 1/2"	HM	1C/A8.4	3B/A8.4	3B/A8.4	3D/A8.4	
K							

DOOR AND FRAME SCHEDULE																		
DOOR	TO ROOM	DOOR PANEL							DOOR FRAME			DETAILS				COMMENTS		
		NO. OF PANELS	WIDTH	HEIGHT	THICKNESS	MAT'L	GLAZE	TYPE	WIDTH	MAT'L	TYPE	HEAD	JAMB LEFT	JAMB RIGHT	SILL			
G100	CIRCULATION	2	3'-0"	7'-0"	1 3/4"	ALUM	CTG	D2	2"	ALUM	A	1E/A8.4	3E/A8.4 & 4E/A8.4	3E/A8.4 & 4E/A8.4	4C/A8.4	ADA OPERATOR AND CARD READER. LOCATE ON SQUARE BOLLARDS. TEMPERED GLAZING, PUSH BAR PER SECTION 1010.1.9 (OSSC). SEE HARDWARE SET.		
G102	CLASSROOM	1	3'-0"	7'-0"	1 3/4"	WD	-	D1	2"	HM	5	1B/A8.4 & 1C/A8.4	2C/A8.4 & 3B/A8.4	2D/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE		
G104	CLASSROOM	1	3'-0"	7'-0"	1 3/4"	WD	-	D1	2"	HM	5	1B/A8.4 & 1C/A8.4	2D/A8.4 & 3B/A8.4	2C/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE		
G106	CLASSROOM	1	3'-0"	7'-0"	1 3/4"	WD	-	D1	2"	HM	5	21/A8.7	2C/A8.4 & 3B/A8.4	2D/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE		
G108	CLASSROOM	1	3'-0"	7'-0"	1 3/4"	WD	-	D1	2"	HM	5	1B/A8.4 & 1C/A8.4	2D/A8.4 & 3B/A8.4	2C/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE		
G110	LIBRARY	2	3'-0"	7'-0"	1 3/4"	WD	-	D1	2"	HM	1	1B/A8.4	2D/A8.4	2D/A8.4		PUSH BAR PER SECTION 1010.1.9 (OSSC). SEE HARDWARE SET.		
G110.2	COURTYARD	1	3'-0"	7'-0"	1 3/4"	ALUM	CTG	D2	2"	ALUM	AE	1E/A8.4	4D/A8.4 & 4E/A8.4	4D/A8.4 & 4E/A8.4	4C/A8.4	TEMPERED GLAZING AT DOOR PANEL. PUSH BAR PER SECTION 1010.1.9 (OSSC). SEE HARDWARE SET.		
G112	LIBRARY WORK ROOM	1	3'-0"	7'-0"	1 3/4"	WD	-	D1	2"	WD	1	1B/A8.4	2D/A8.4	2C/A8.4		TEMPERED GLAZING AT DOOR PANEL. PUSH BAR PER SECTION 1010.1.9 (OSSC). SEE HARDWARE SET.		
G114	COMPUTER LAB/MAKER SPACE	1	3'-0"	7'-0"	1 3/4"	WD	-	D1	2"	HM	5	1B/A8.4 & 1C/A8.4	2D/A8.4 & 3B/A8.4	2C/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE		
G114.1	COMPUTER LAB/MAKER SPACE	1	3'-0"	7'-2"	1 3/4"	WD	-	D1	2"	HM	1	1B/A8.4	2C/A8.4	2D/A8.4				
OG1	PLAYGROUND	2	4'-0"	7'-0"	1 3/4"	Steel	GATE	D8	2"	Steel	SEE LANDSCAPE					LOCKABLE GATE WITH PANIC BAR. SEE L7.5		
OG2	PLAYGROUND	2	4'-0"	7'-0"	1 3/4"	Steel	GATE	D8	2"	Steel	SEE LANDSCAPE					LOCKABLE GATE WITH PANIC BAR. SEE L7.5		

DOOR AND FRAME SCHEDULE ALTERNATES																
DOOR	TO ROOM	DOOR PANEL				DOOR FRAME				DETAILS					COMMENTS	
		NO. OF PANELS	WIDTH	HEIGHT	THICKNESS	MAT'L	GLAZE	TYPE	WIDTH	MAT'L	TYPE	HEAD	JAMB LEFT	JAMB RIGHT		SILL
G101	UNISEX RESTROOM	1	3'-0"	7'-0"	1 3/4"	WD	-	D1	2"	WD	1	1B/A8.4	2D/A8.4	2B/A8.4	-	<div><div>ADD 02</div><div>1" UNDERCUT</div><div>1" UNDERCUT</div><div>OPERABLE PARTITION SEE SPEC. MARKERBOARD FINISH LIBRARY SIDE</div></div>
G103	UNISEX RESTROOM	1	3'-0"	7'-0"	1 3/4"	WD	-	D1	2"	WD	1	1B/A8.4	2B/A8.4	2D/A8.4	-	
G114.2	COMPUTER LAB/MAKER SPACE	7	2'-6" 219/256"	9'-0"	2"	ALUM	-		0"	ALUM						

PER SECTION 1010.1.9.1 (OSSC), DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11 SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

100% CD
2/26/2021
REVISIONS
ADD 01 9/21/2021
ADD 02 9/28/2021

74-21102-00

FRAME ELEVATIONS

A8.3

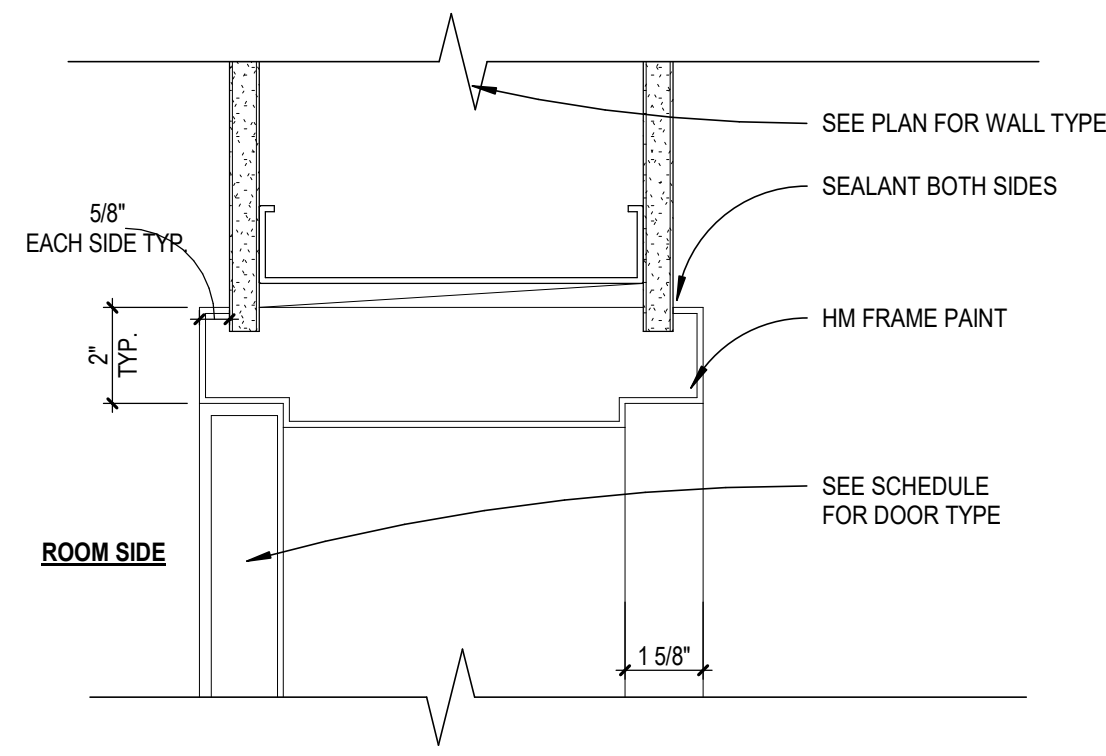
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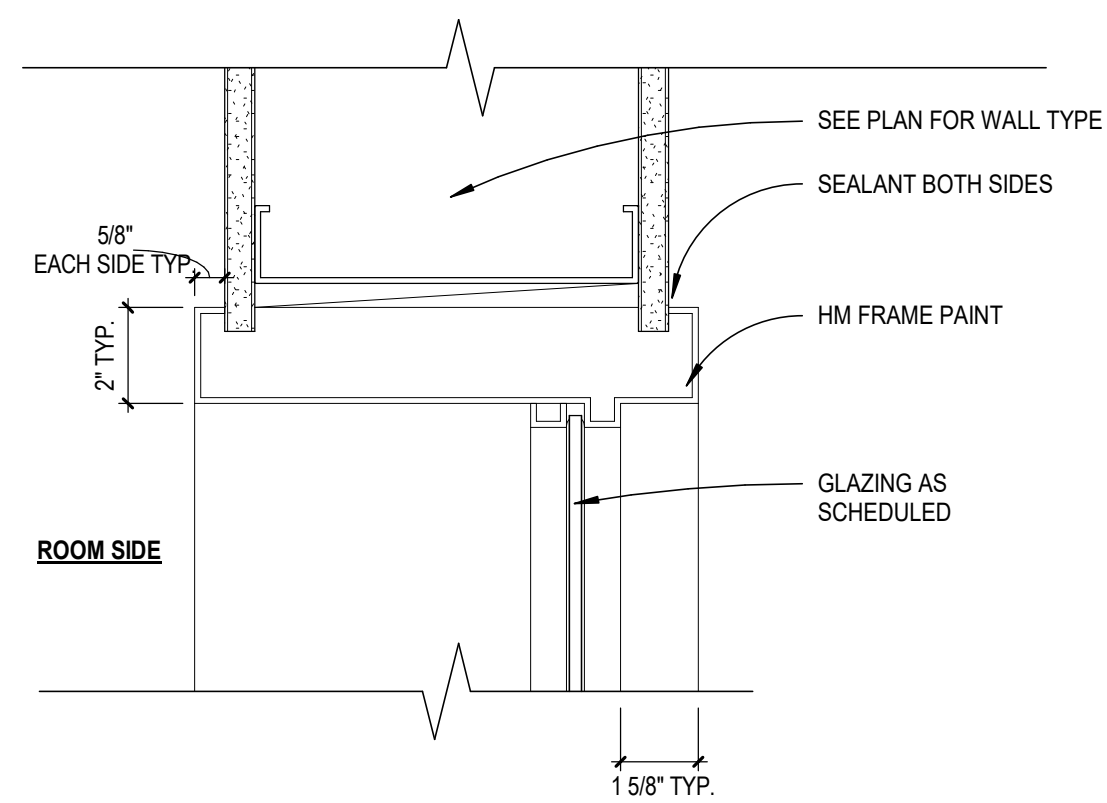
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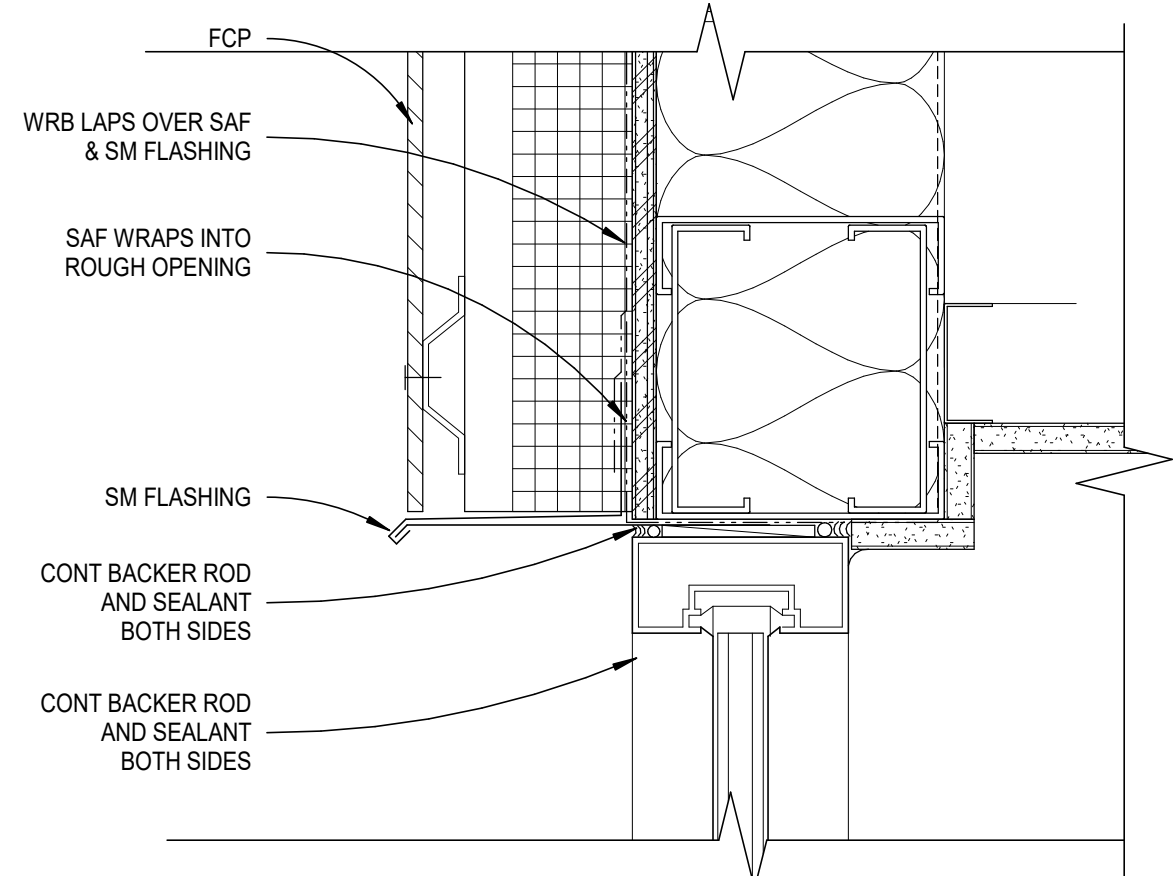
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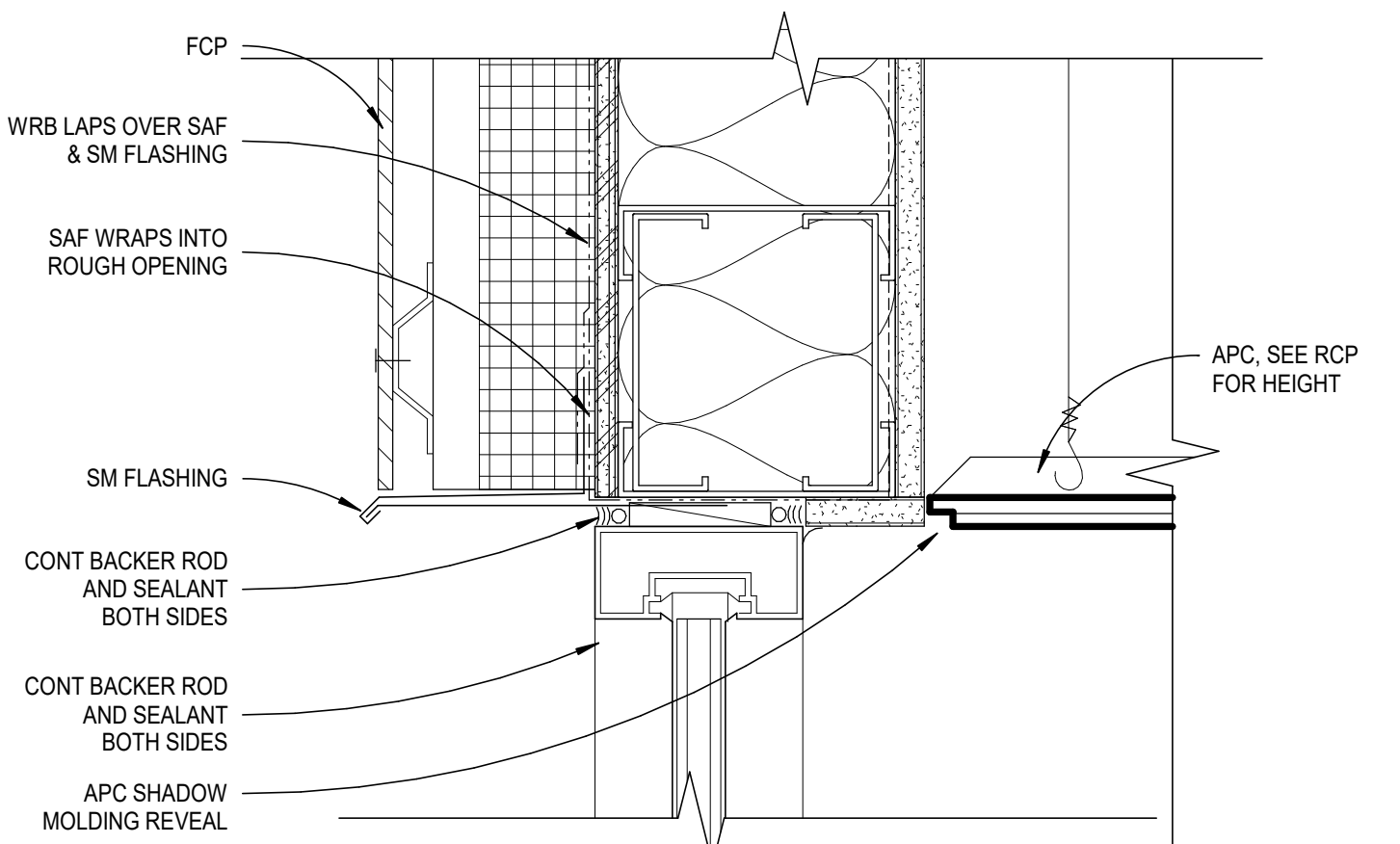
1B HM HEAD AT DOOR
A8.4 SCALE: 3" = 1'-0"



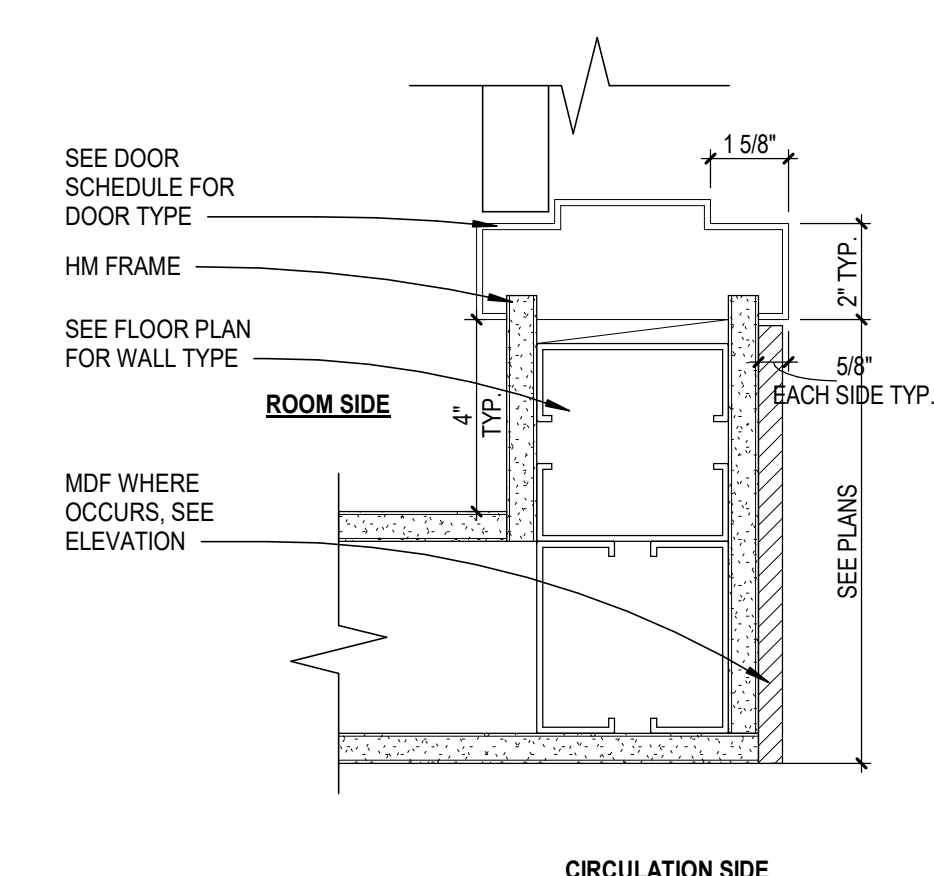
1C HM HEAD AT RELITE
A8.4 SCALE: 3" = 1'-0"



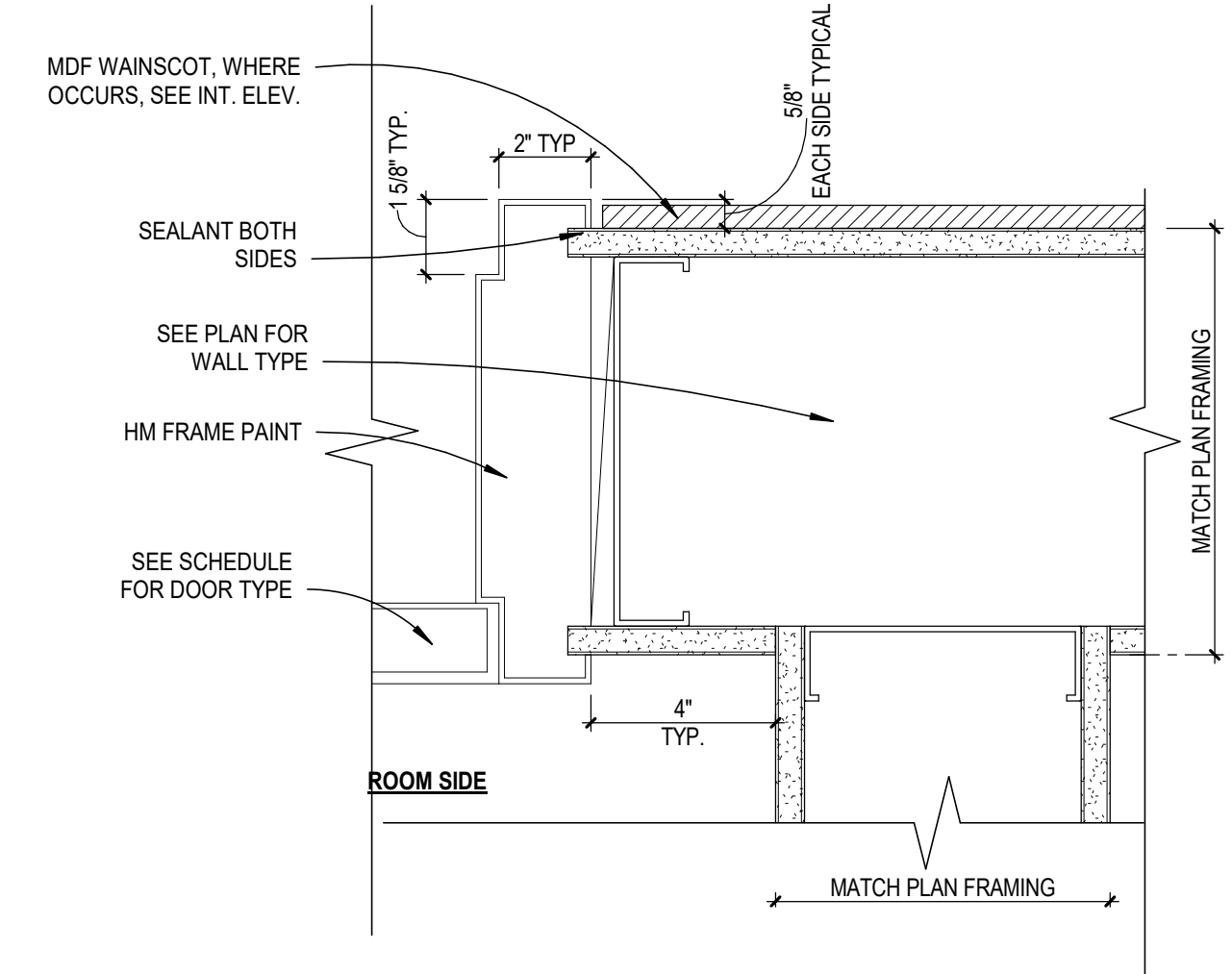
1D SF HEAD @ FCP/HARD LID CEILING
A8.4 SCALE: 3" = 1'-0"



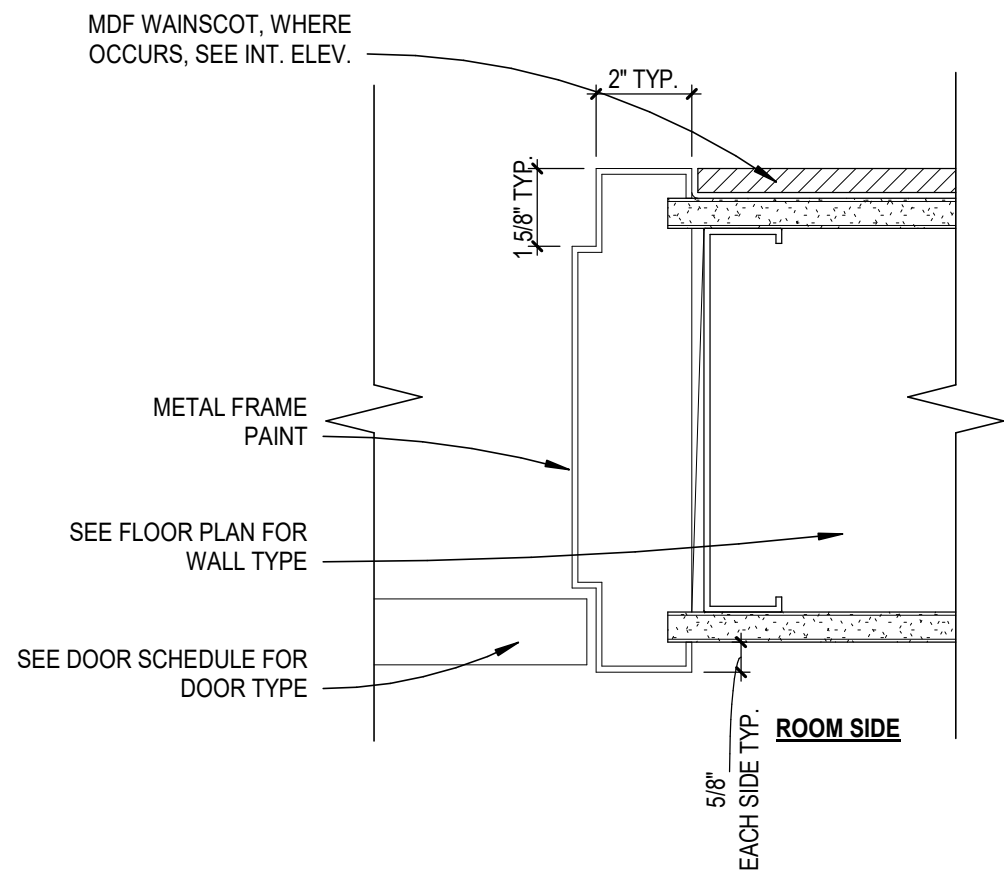
1E SF HEAD @ FCP/APC CEILING
A8.4 SCALE: 3" = 1'-0"



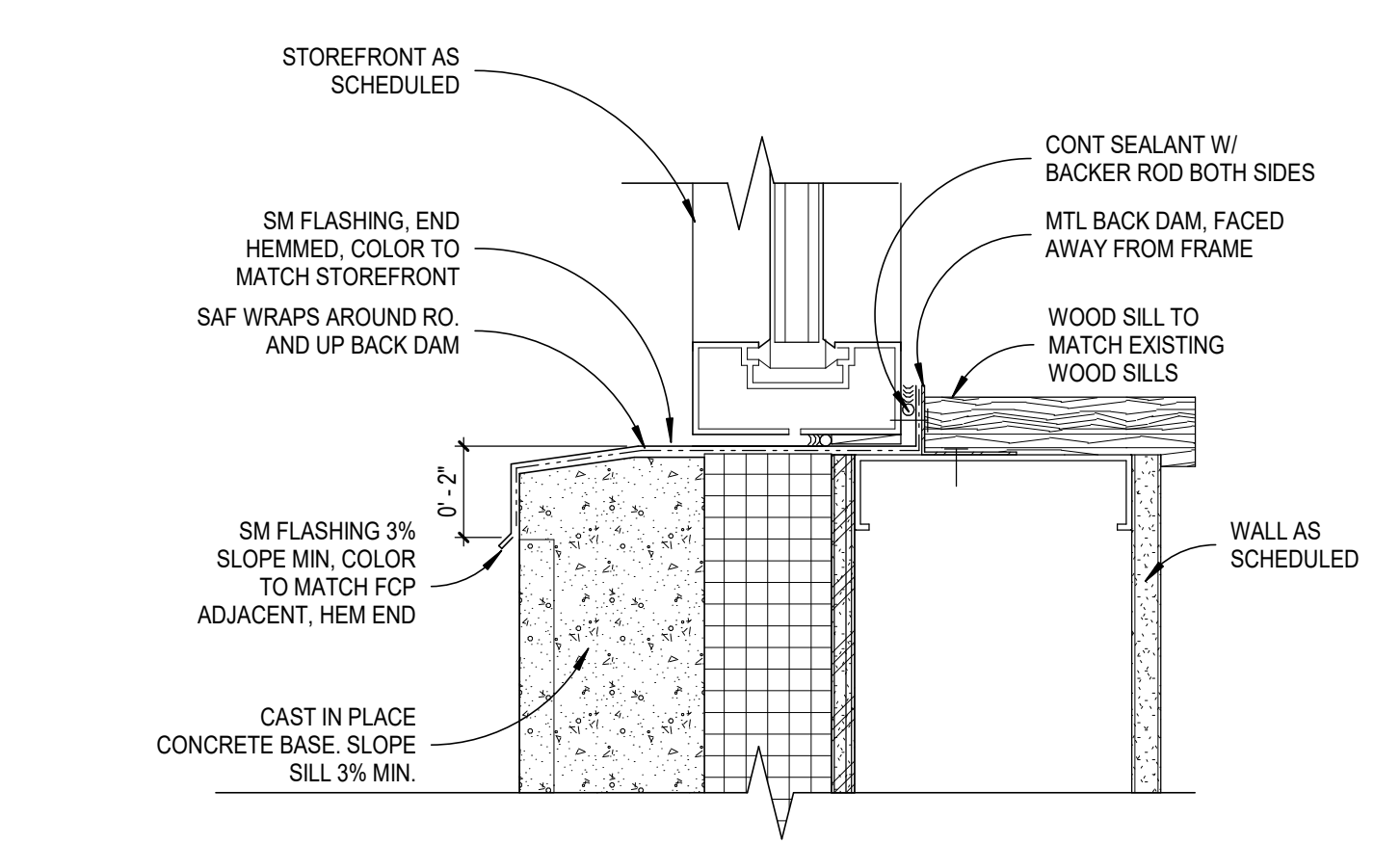
2B HM JAMB DETAIL AT OUTSIDE CORNER
A8.4 SCALE: 3" = 1'-0"



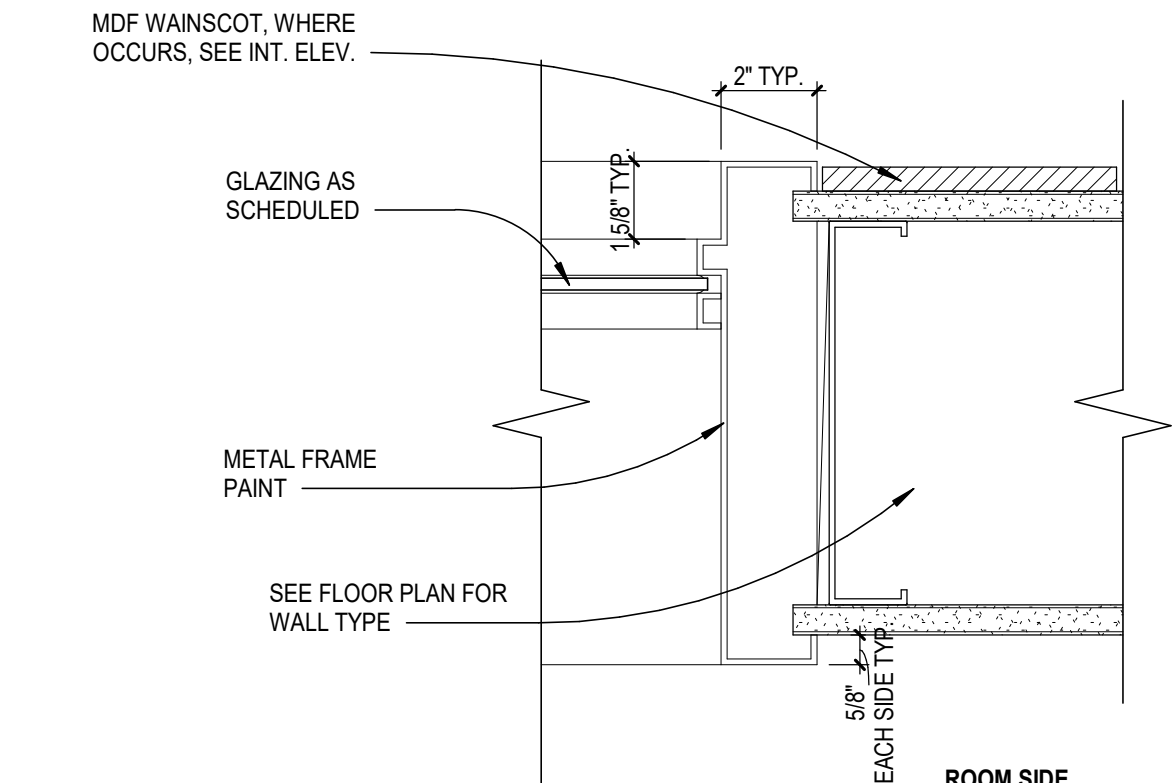
2C HM JAMB DETAIL AT INSIDE CORNER
A8.4 SCALE: 3" = 1'-0"



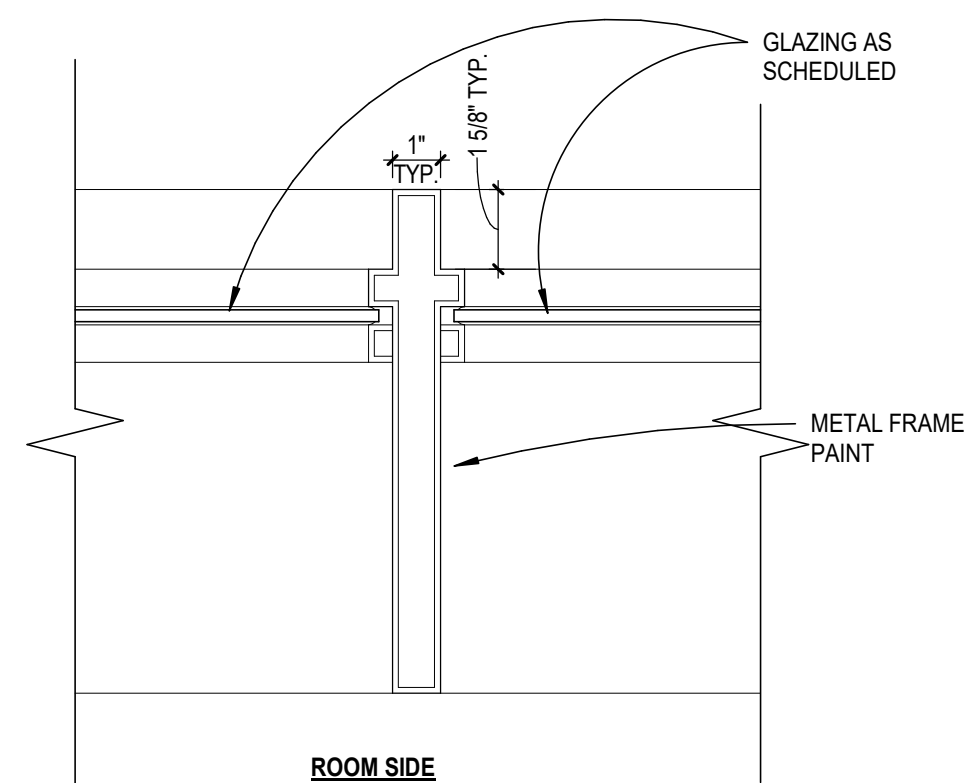
2D HM JAMB AT WAINSCOT
A8.4 SCALE: 3" = 1'-0"



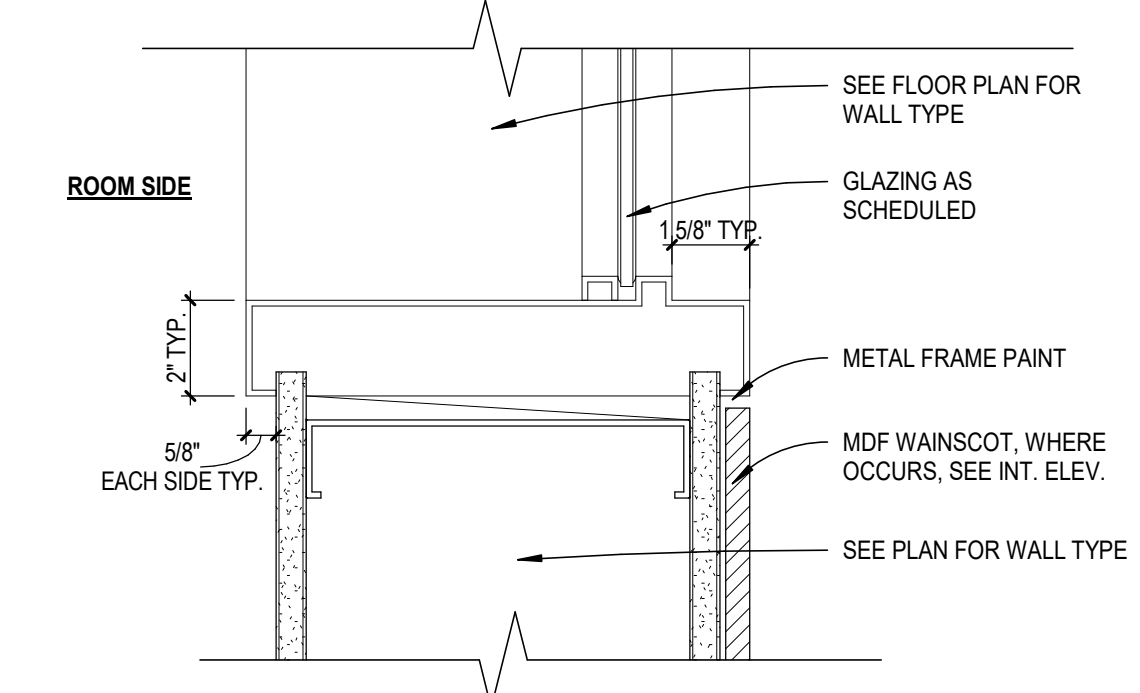
2E SF SILL @ CONCRETE STEM WALL
A8.4 SCALE: 3" = 1'-0"



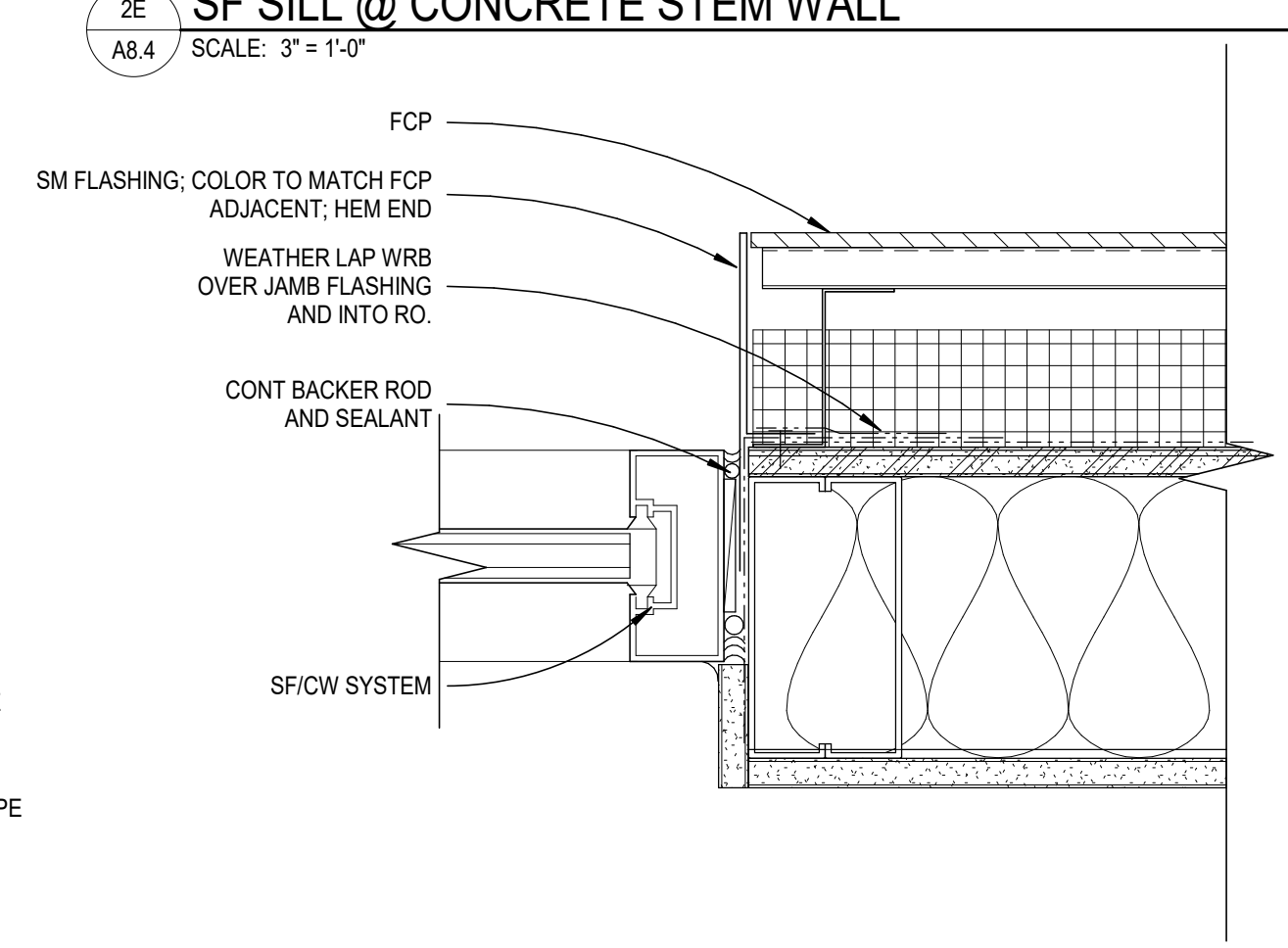
3B HM JAMB AT RELITE
A8.4 SCALE: 3" = 1'-0"



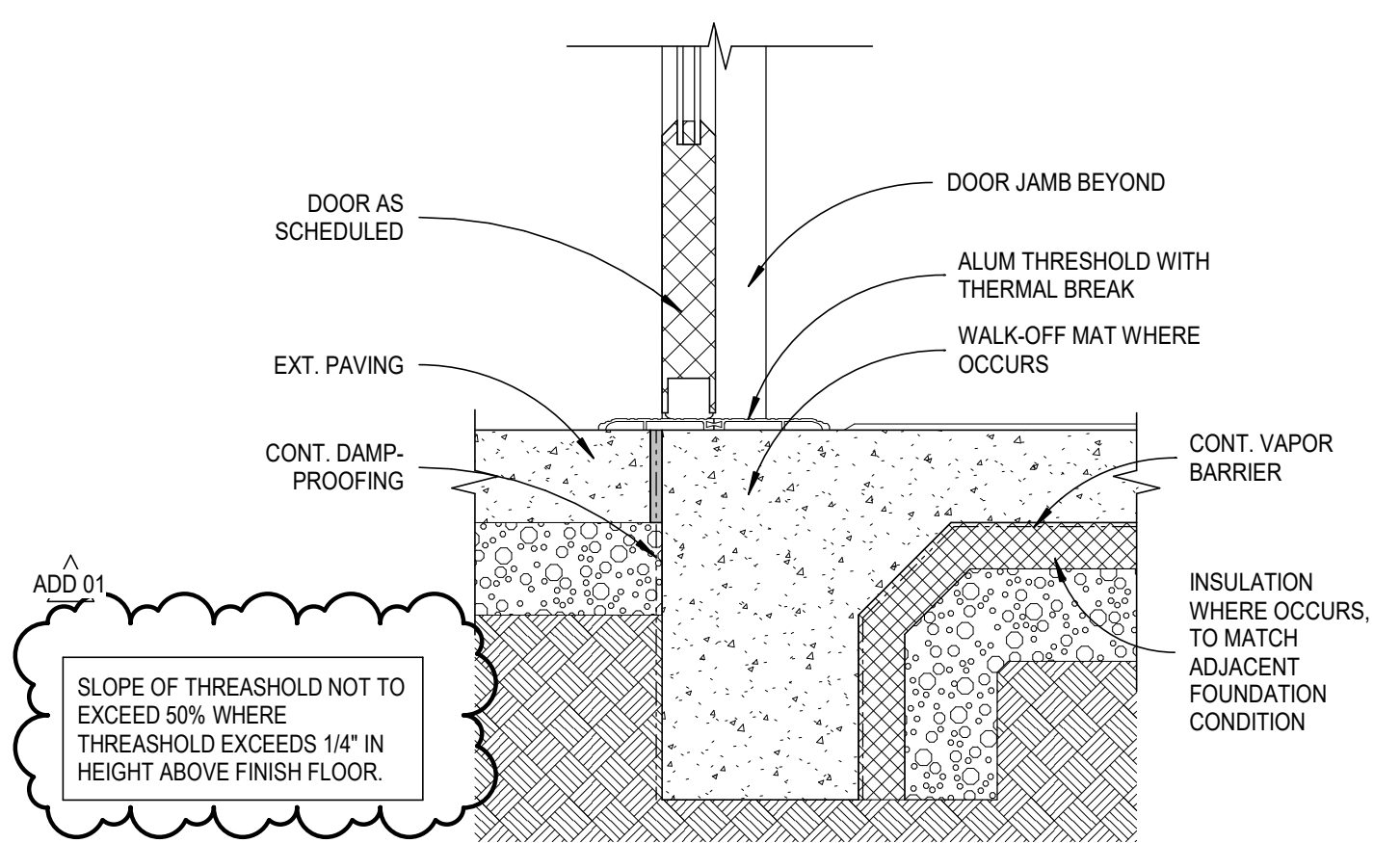
3C JAMB AT VERTICAL RELITE
A8.4 SCALE: 3" = 1'-0"



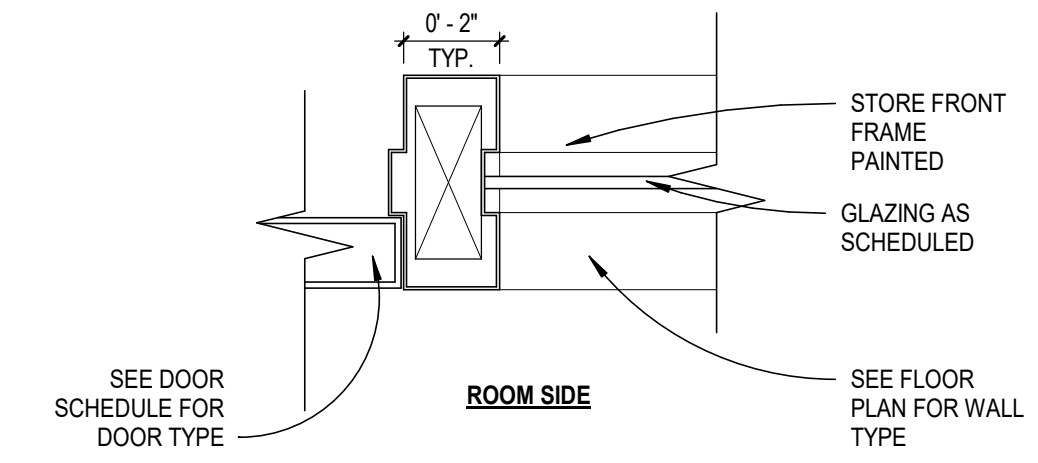
3D HM/RELITE SILL AT WAINSCOT
A8.4 SCALE: 3" = 1'-0"



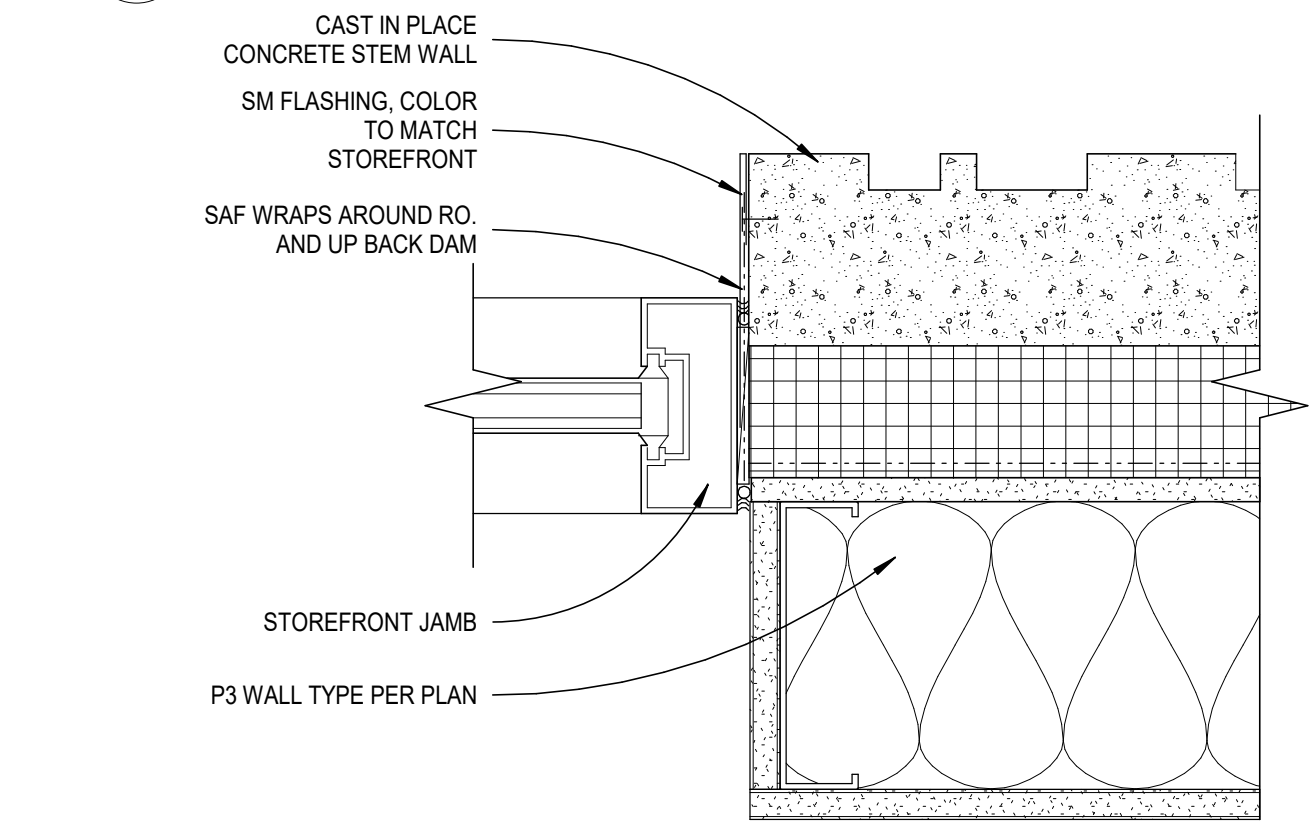
3E SF JAMB @ FCP
A8.4 SCALE: 3" = 1'-0"



4C STOREFRONT DOOR SILL
A8.4 SCALE: 1 1/2" = 1'-0"



4D SF DOOR/WINDOW JAMB
A8.4 SCALE: 3" = 1'-0"



4E SF JAMB @ CONCRETE STEM WALL
A8.4 SCALE: 3" = 1'-0"

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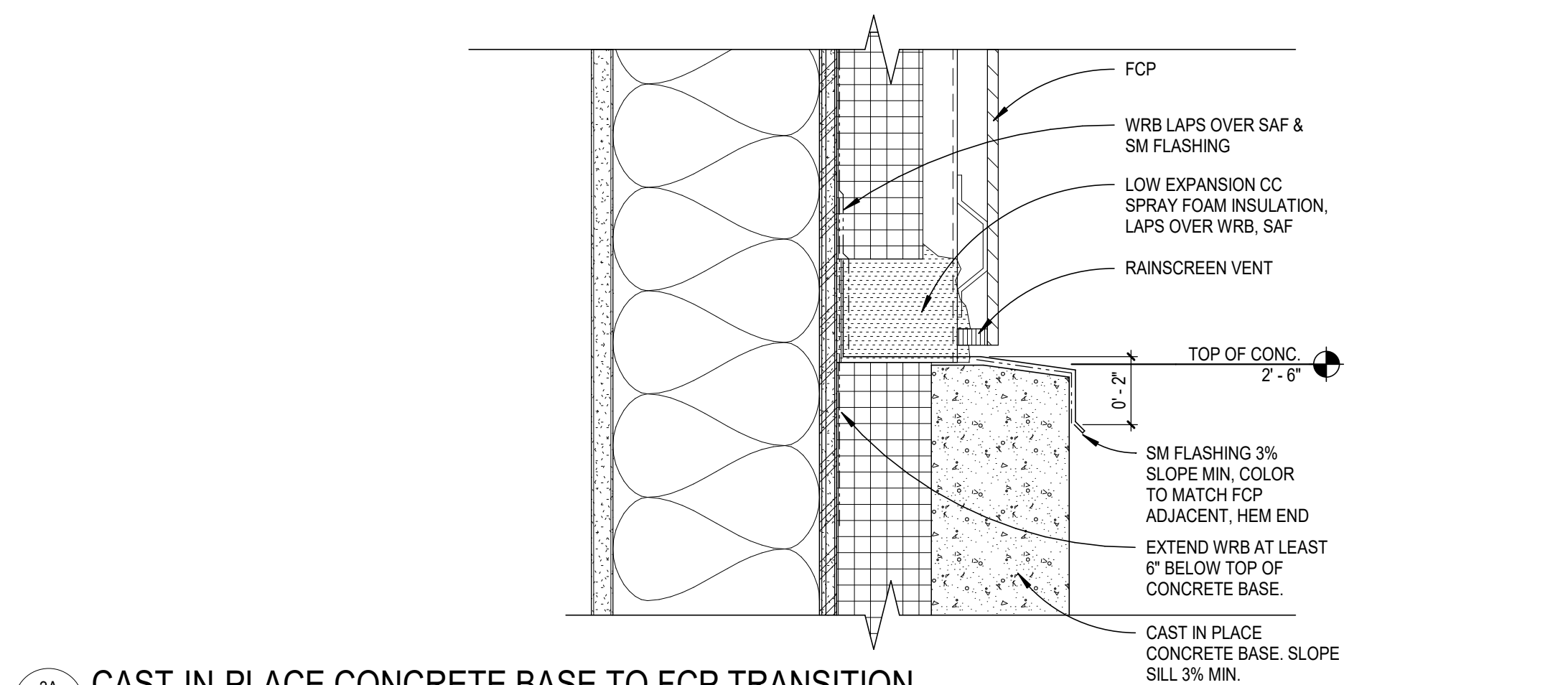
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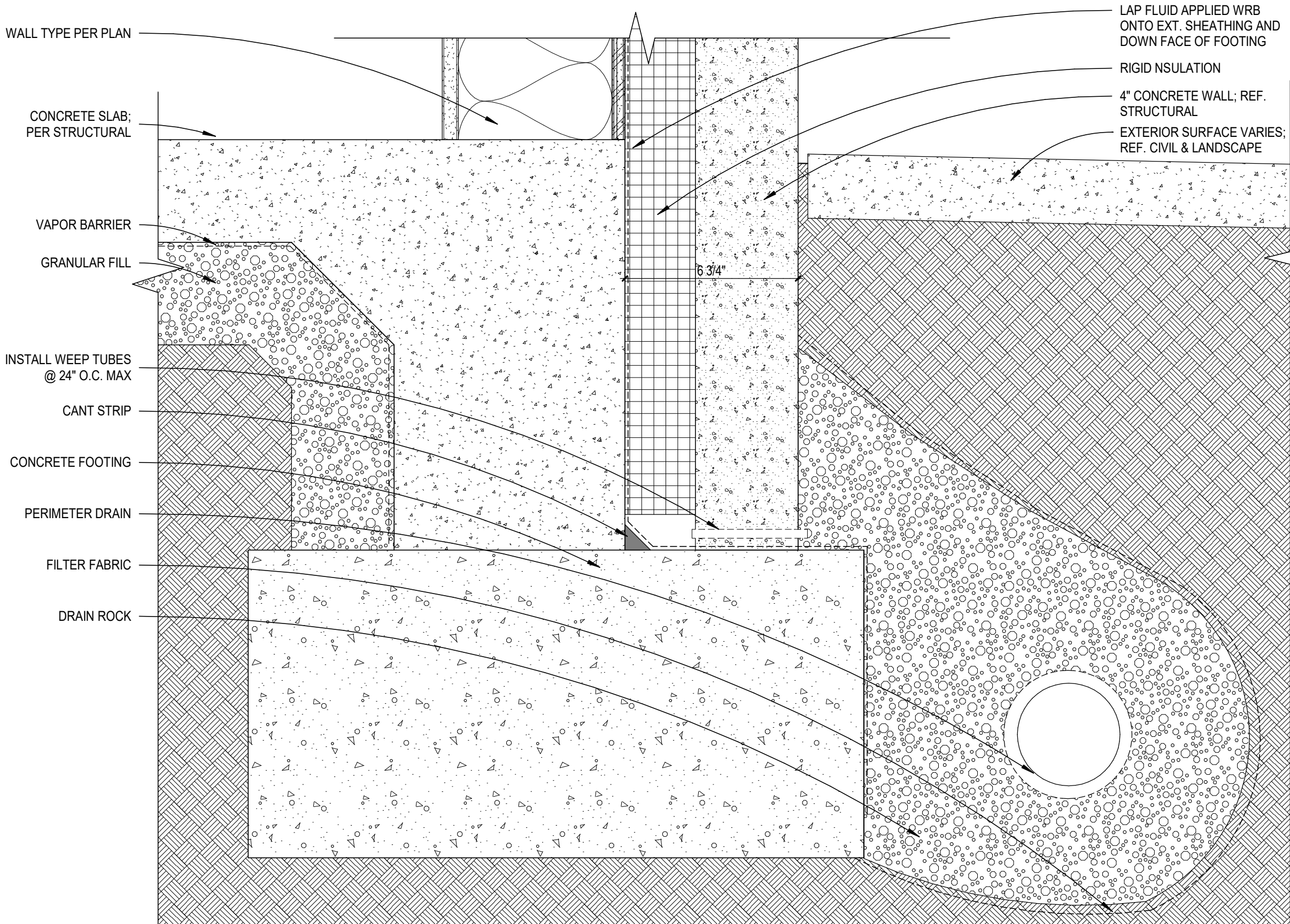
3

4

2A FCP TO EXISTING SECOND LEVEL MWP TRANSITION - PERIMETER
A9.1 SCALE: 3" = 1'-0"



3A CAST-IN-PLACE CONCRETE BASE TO FCP TRANSITION
A9.1 SCALE: 3" = 1'-0"



4A FOUNDATION @ TYP. EXTERIOR WALL
A9.1 SCALE: 3" = 1'-0"

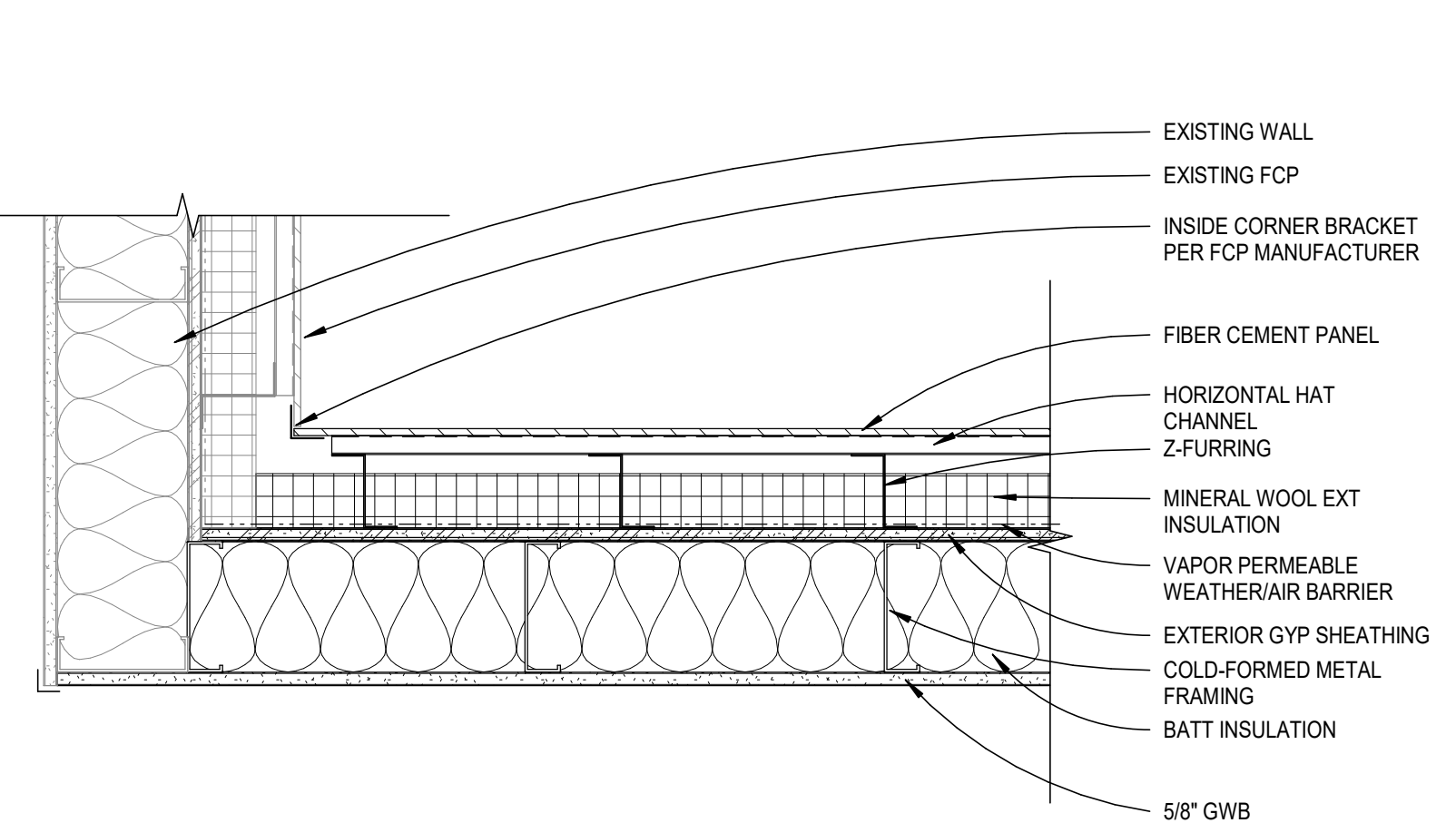
EXISTING WALL TYPE ABOVE

EXISTING MWP ABOVE
EXISTING WRB LAPPED OVER
SM FLASHING & SAF
EXISTING MWP FINs BEYOND
EXISTING SAF WRAPPED
UNDER STUD WALL

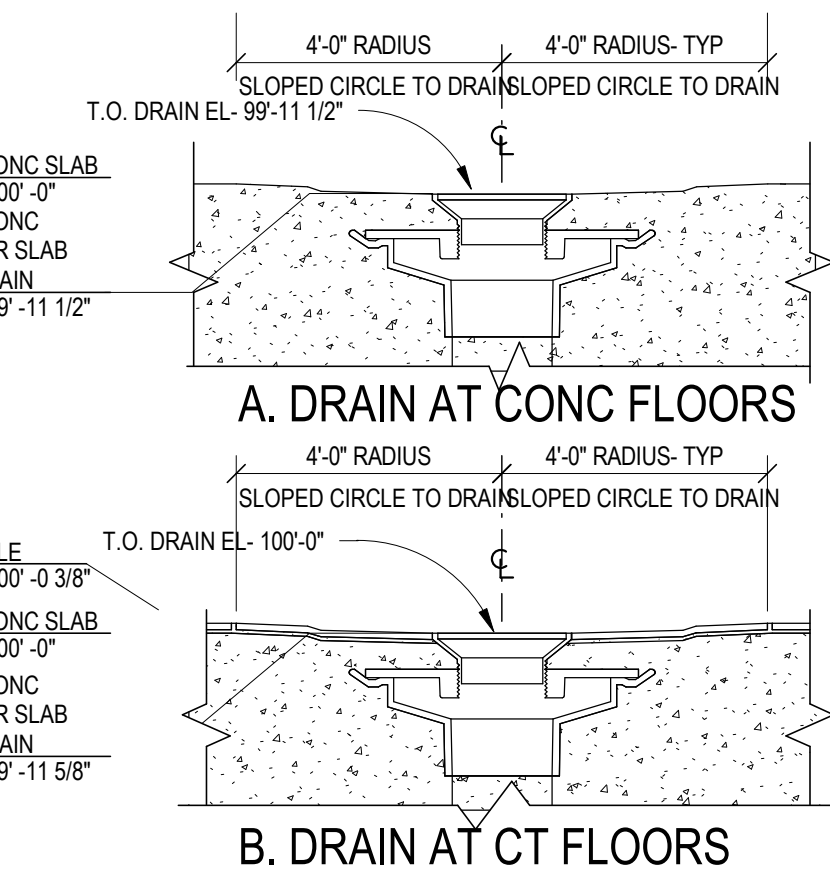
EXISTING RAINSCREEN VENT

20GA SM CONT FLASHING
TRIM, SLOPE TOP MIN TO
DRAIN, COLOR TO MATCH
MWP-1A
RAINSCREEN VENT
LOW EXPANSION SPRAY
FOAM
FIBER CEMENT PANEL

2C FCP TO EXISTING SECOND LEVEL MWP TRANSITION - COURTYARD
A9.1 SCALE: 3" = 1'-0"



3C P2 WALL - INSIDE CORNER - PLAN DETAIL
A9.1 SCALE: 1 1/2" = 1'-0"

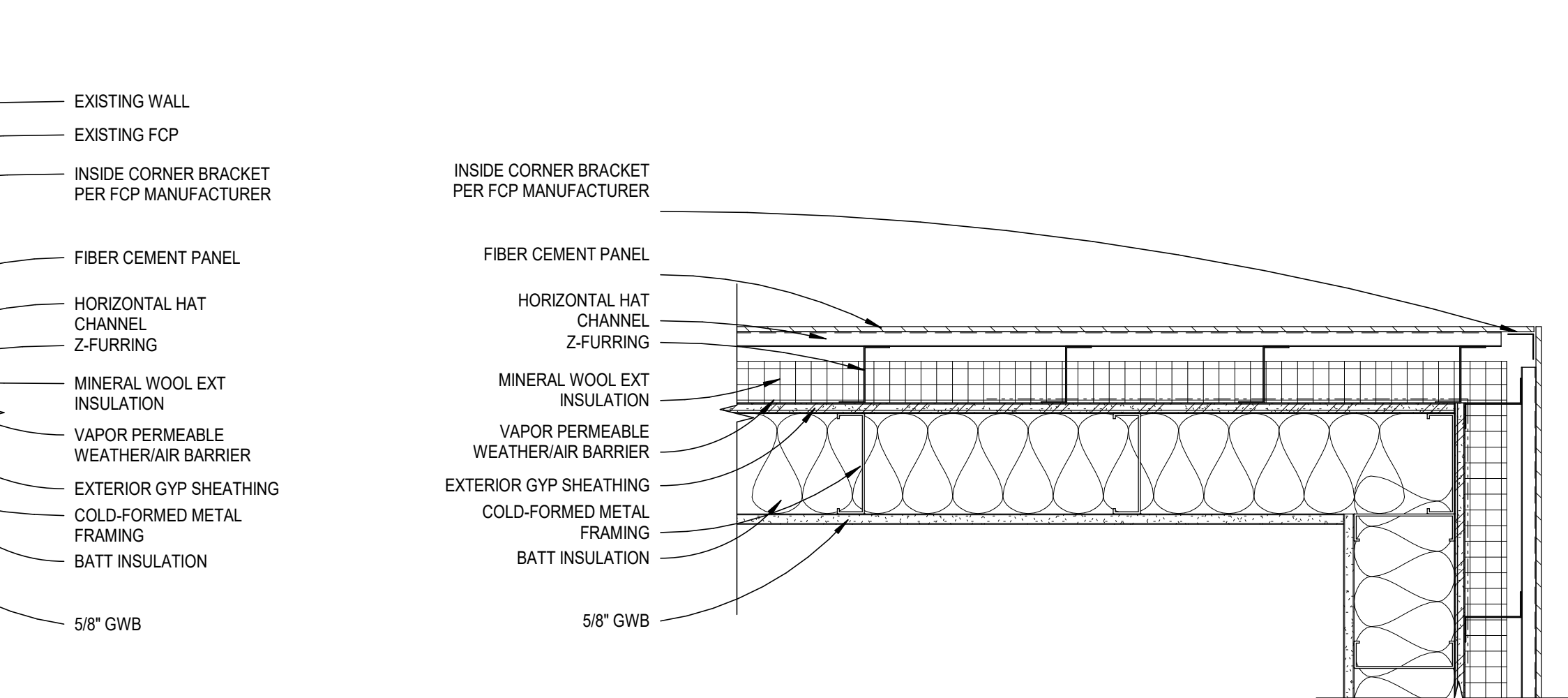


4C FLOOR DRAIN DETAILS
A9.1 SCALE: 1 1/2" = 1'-0"

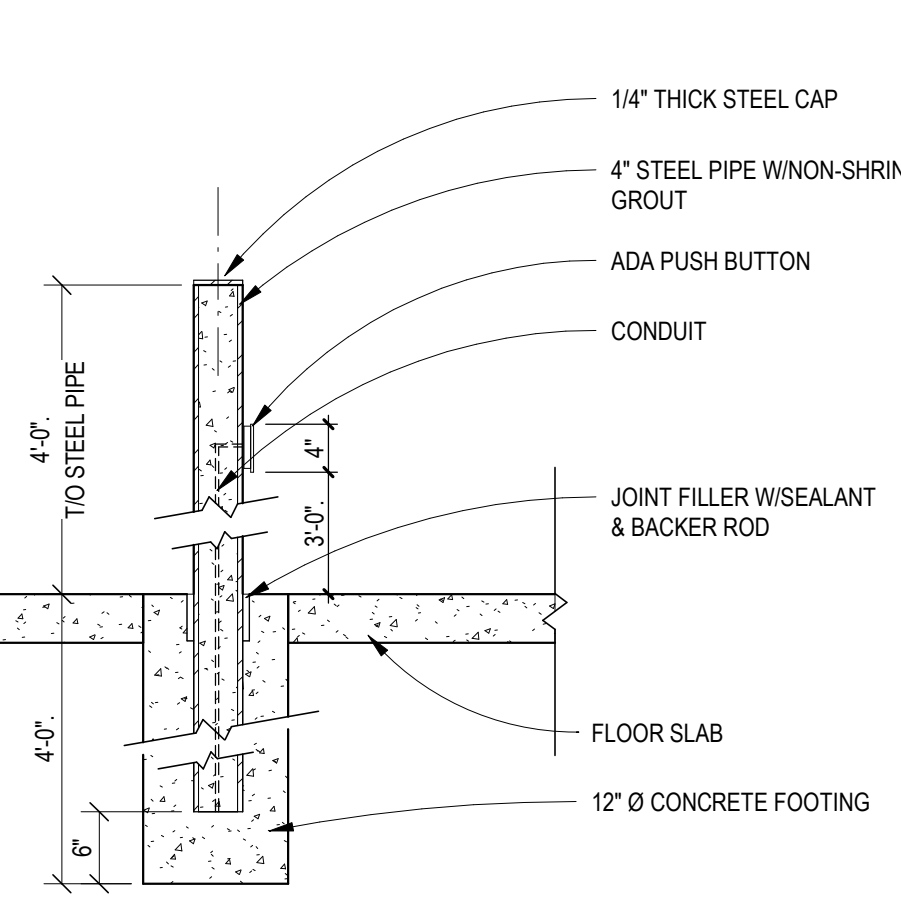
T.O. CONC SLAB
EL = 100'-0"
T/O CONC
FLOOR SLAB
AT DRAIN
EL = 99'-11 1/2"

T/O TILE
EL = 100'-0 3/8"
T/O CONC
FLOOR SLAB
EL = 100'-0"
T/O CONC
FLOOR SLAB
AT DRAIN
EL = 99'-11 5/8"

2D SOFFIT TRANSITION TRIM
A9.1 SCALE: 1 1/2" = 1'-0"



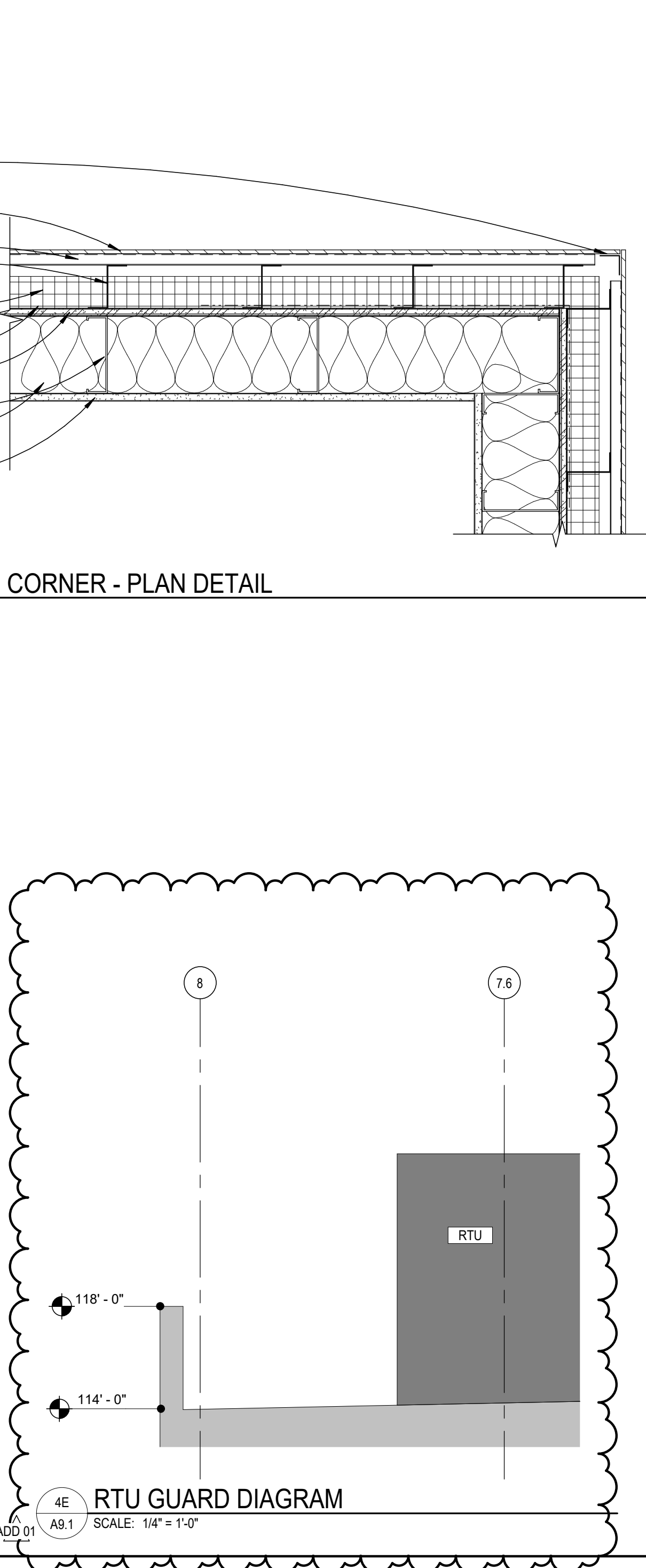
3D P2 WALL - OUTSIDE CORNER - PLAN DETAIL
A9.1 SCALE: 1 1/2" = 1'-0"



4D TYPICAL BOLLARD
A9.1 SCALE: 3/4" = 1'-0"

1/4" THICK STEEL CAP
4" STEEL PIPE WINON-SHRINK
GROUT
ADA PUSH BUTTON
CONDUIT
JOINT FILLER W/SEALANT
& BACKER ROD
FLOOR SLAB
12" Ø CONCRETE FOOTING

4E RTU GUARD DIAGRAM
A9.1 SCALE: 1/4" = 1'-0"



RTU

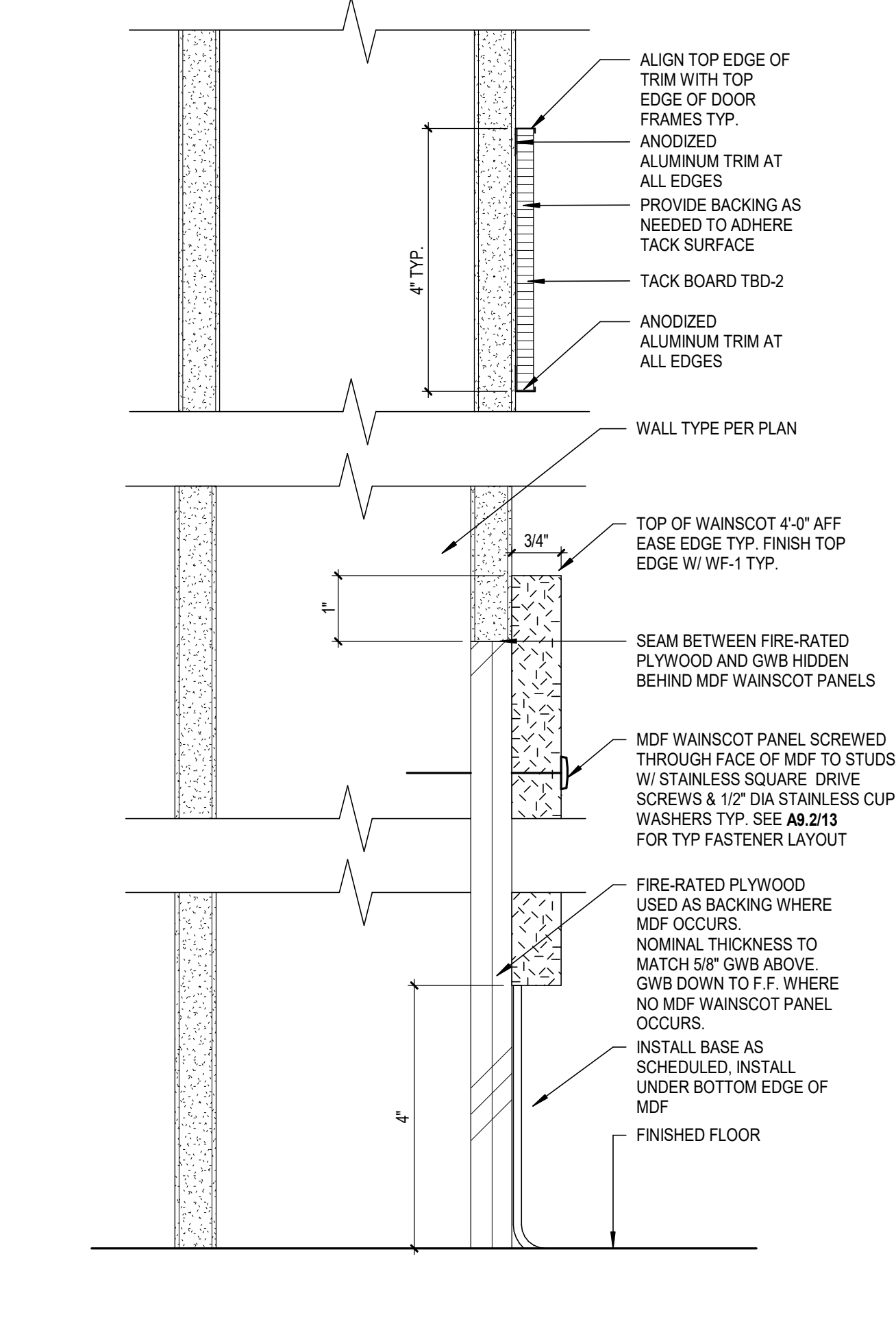
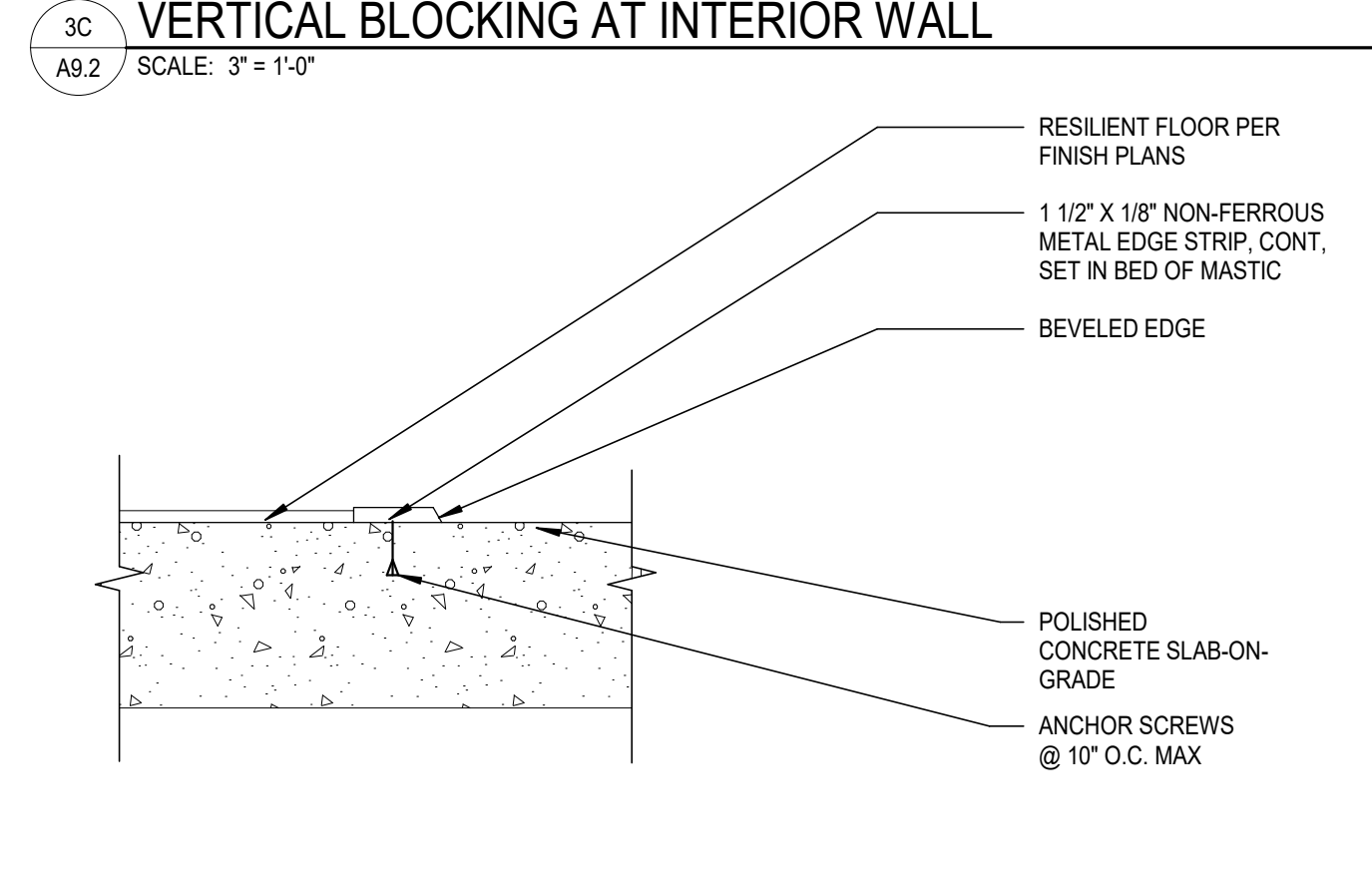
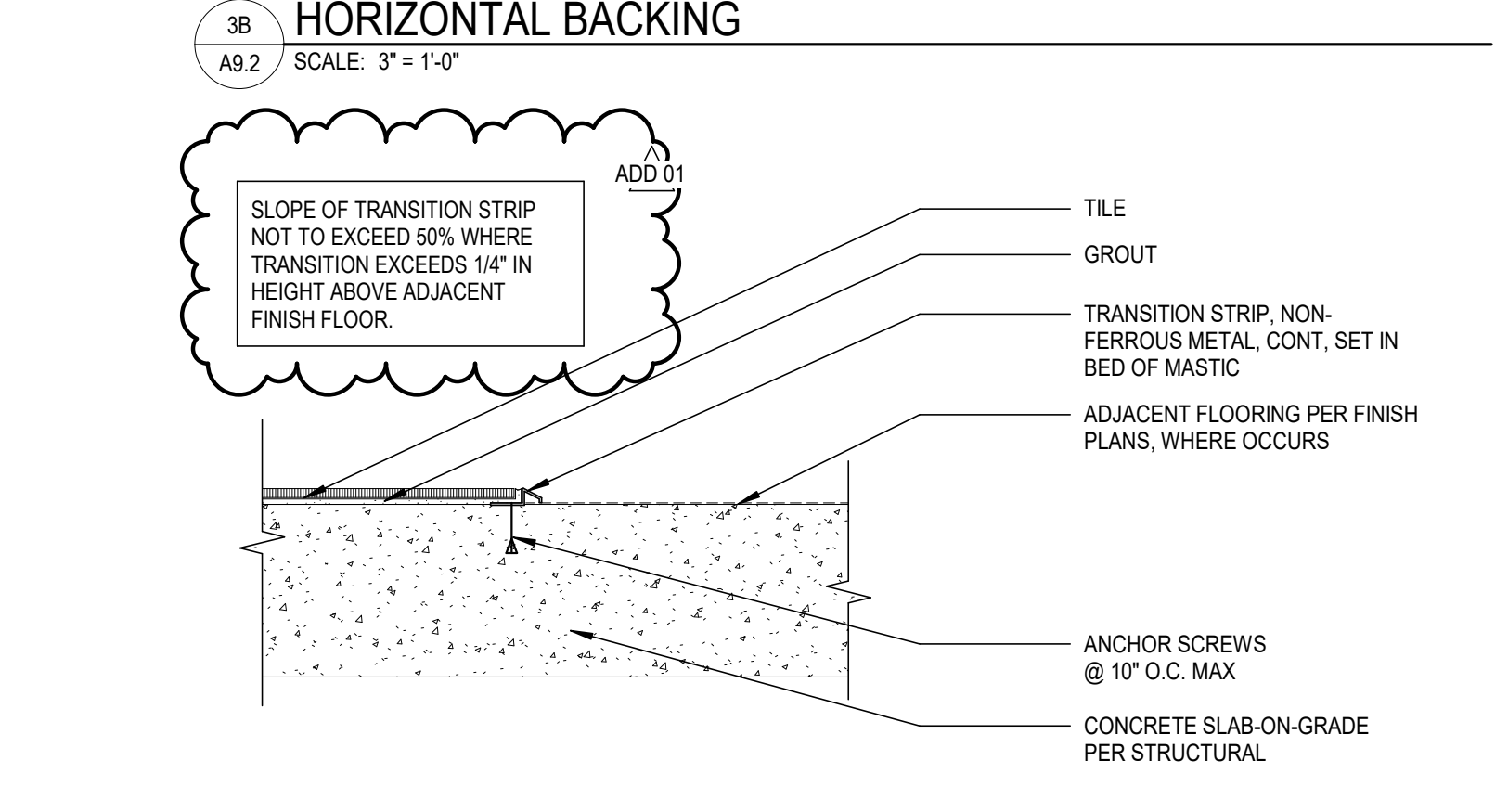
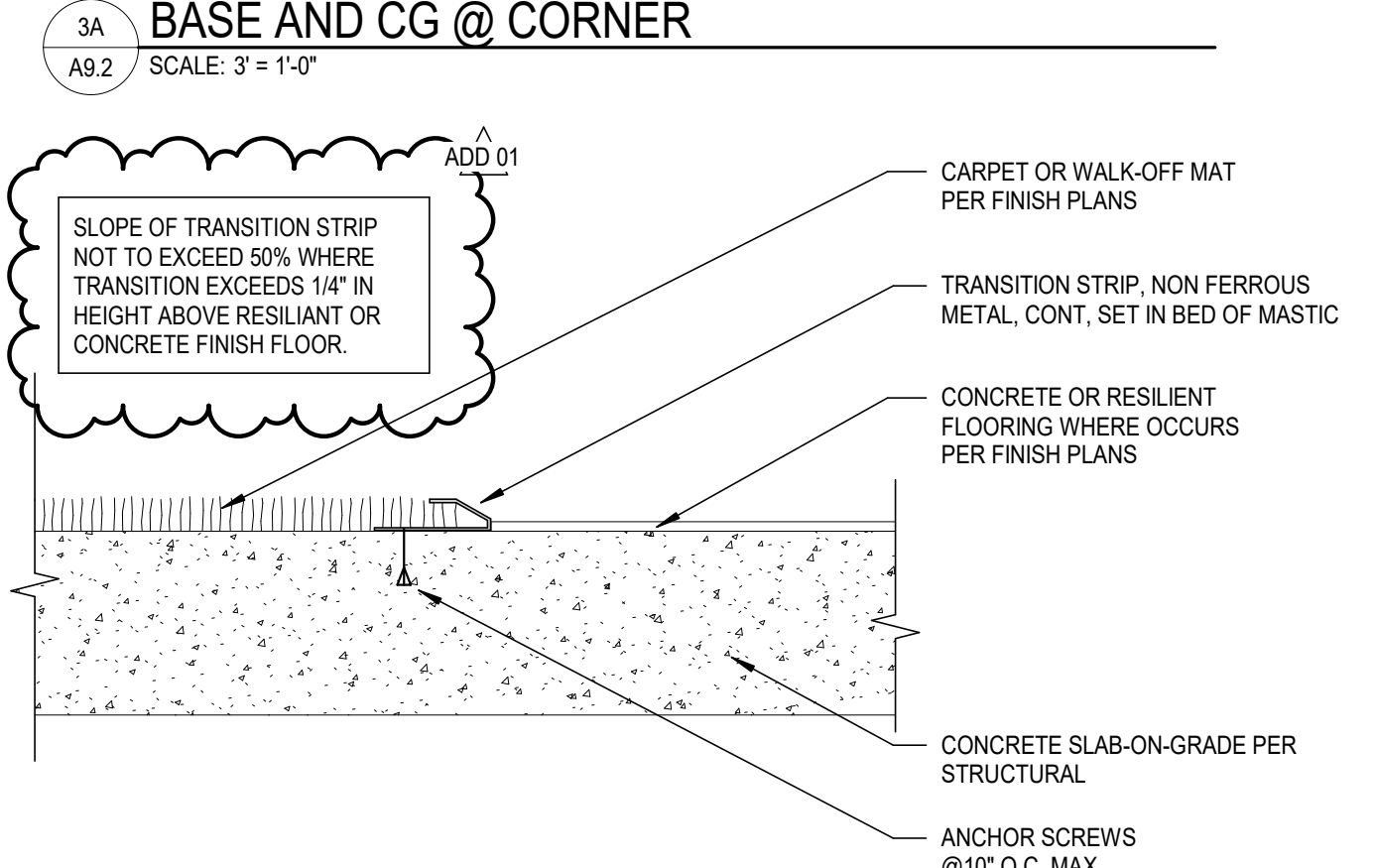
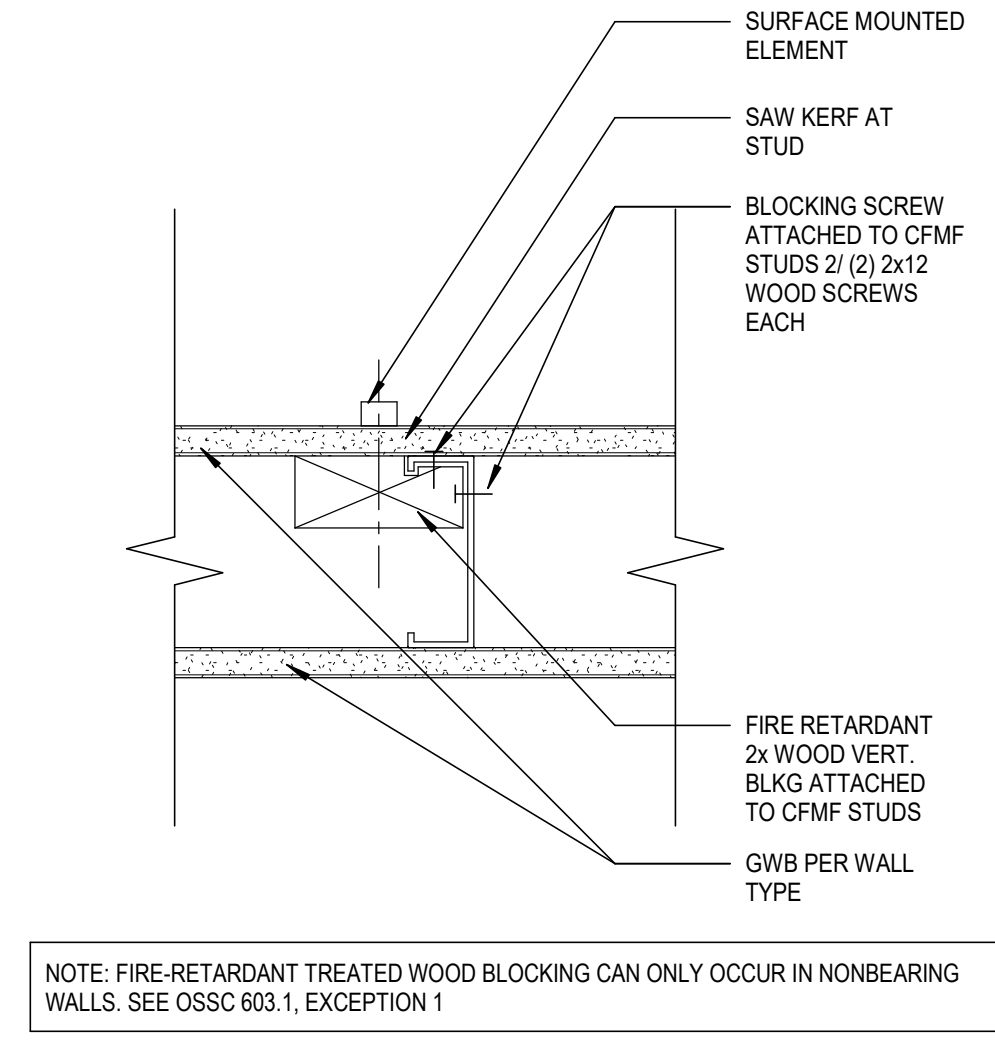
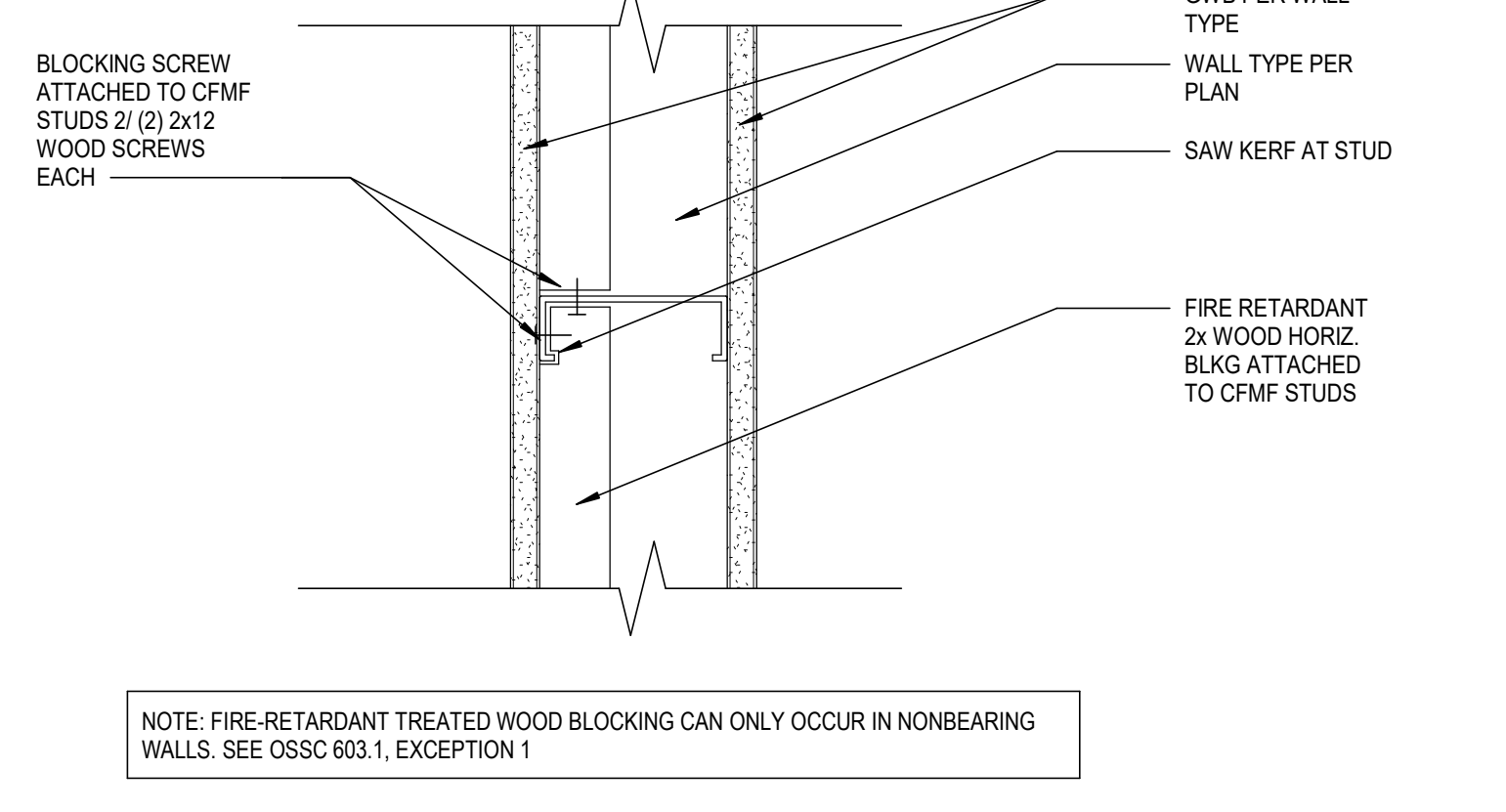
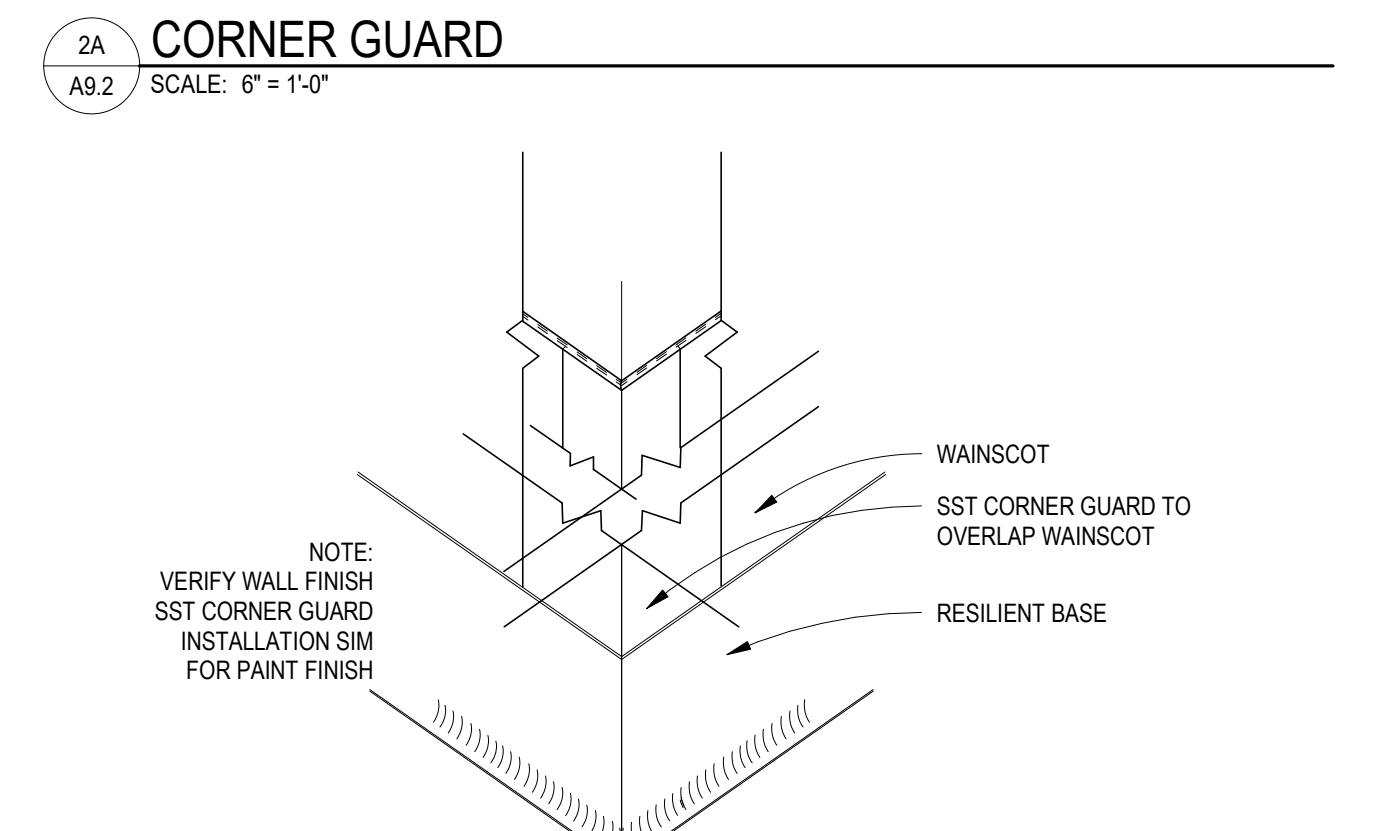
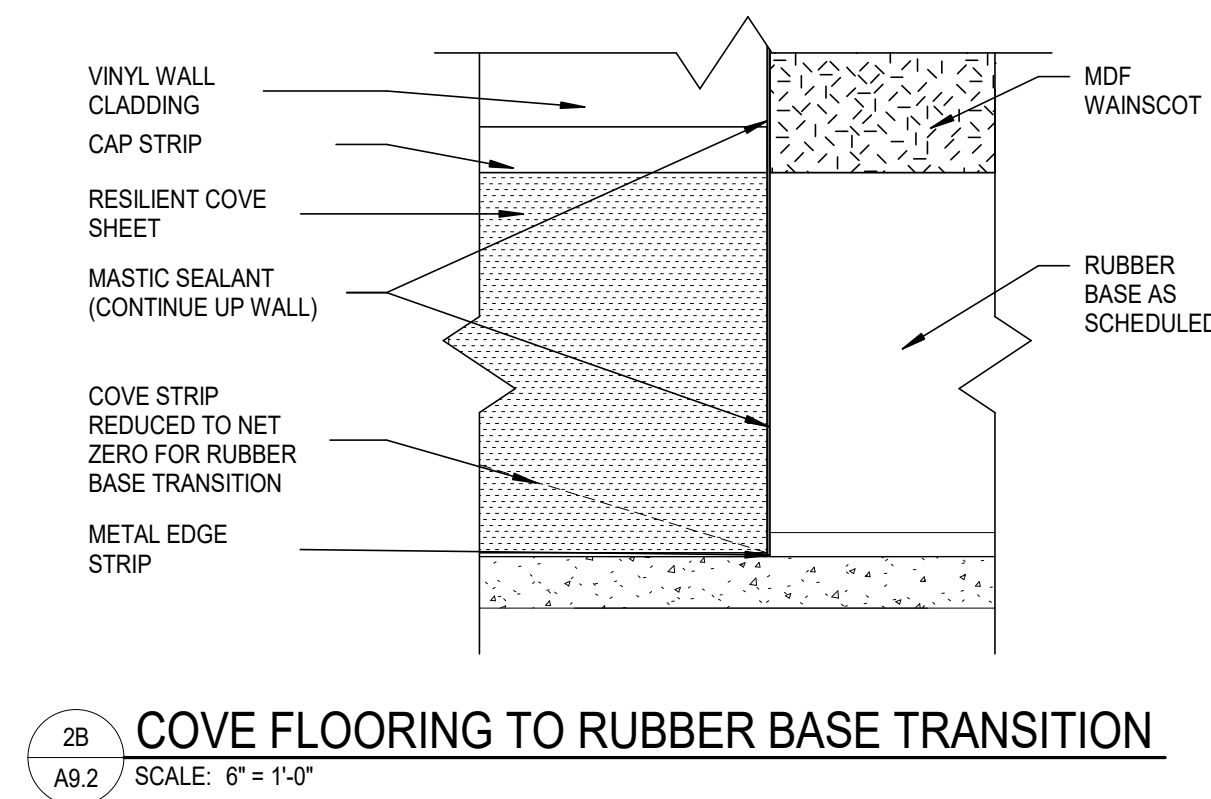
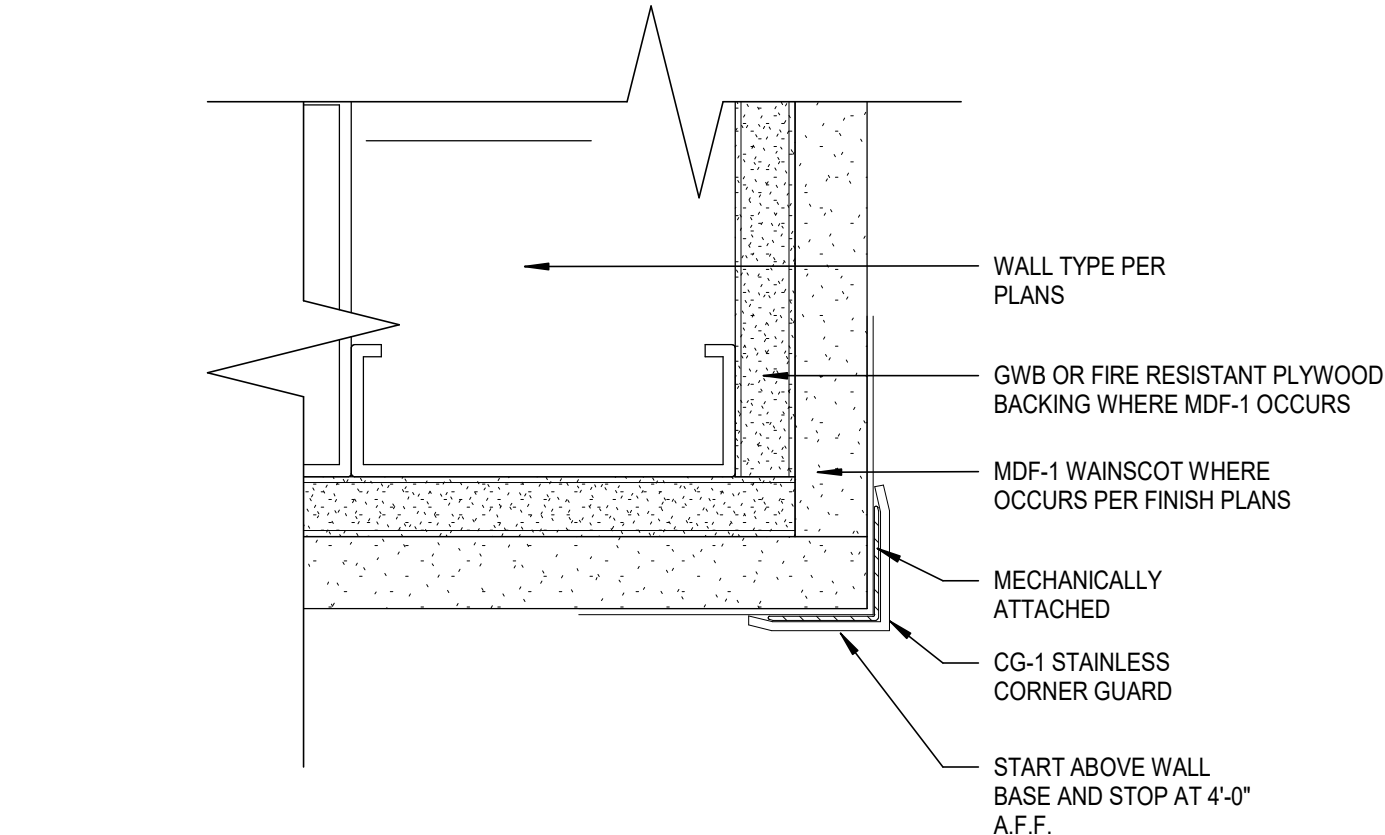
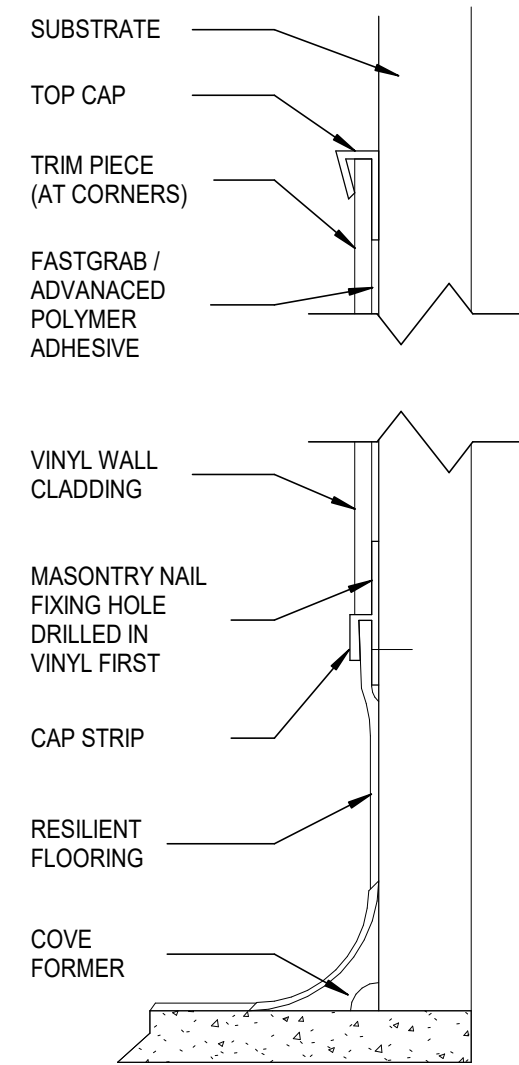
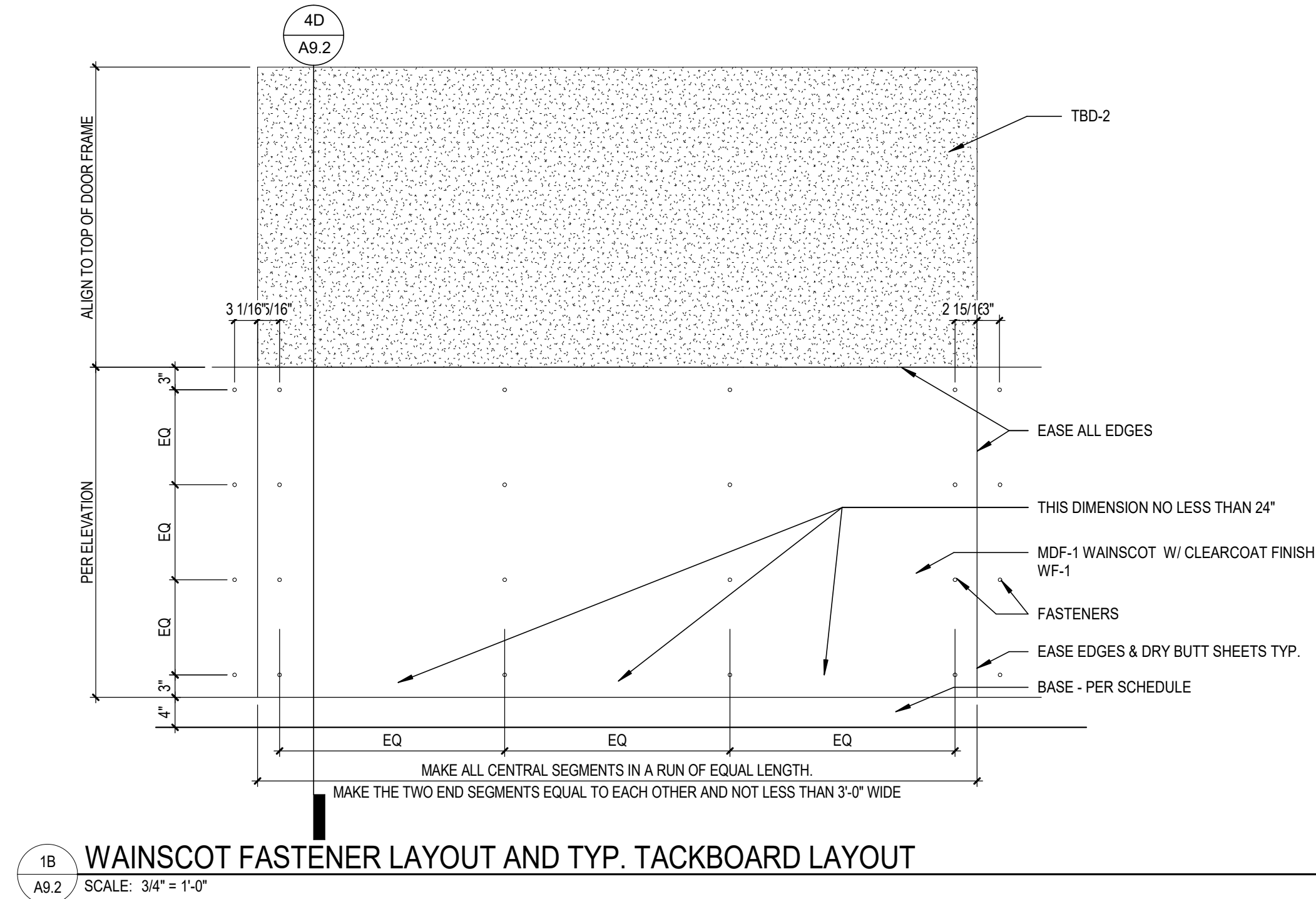
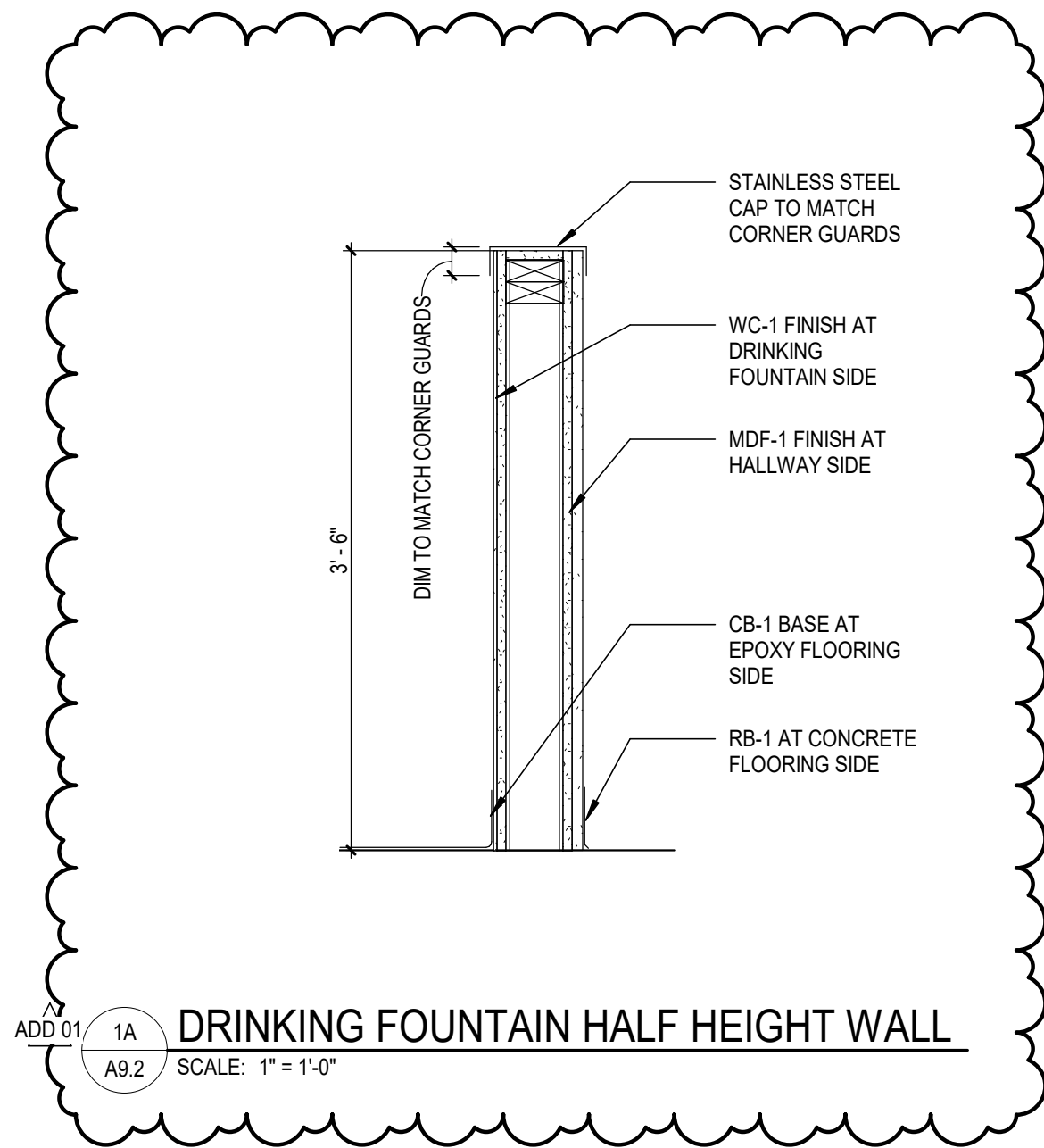
A

B

C

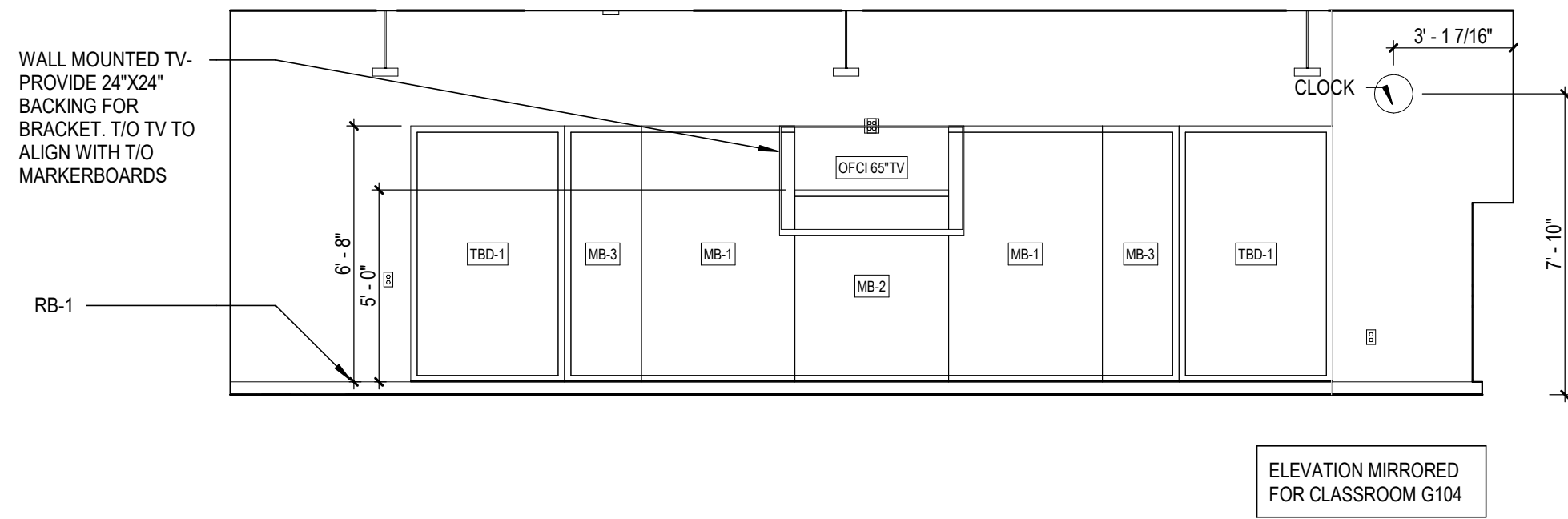
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E



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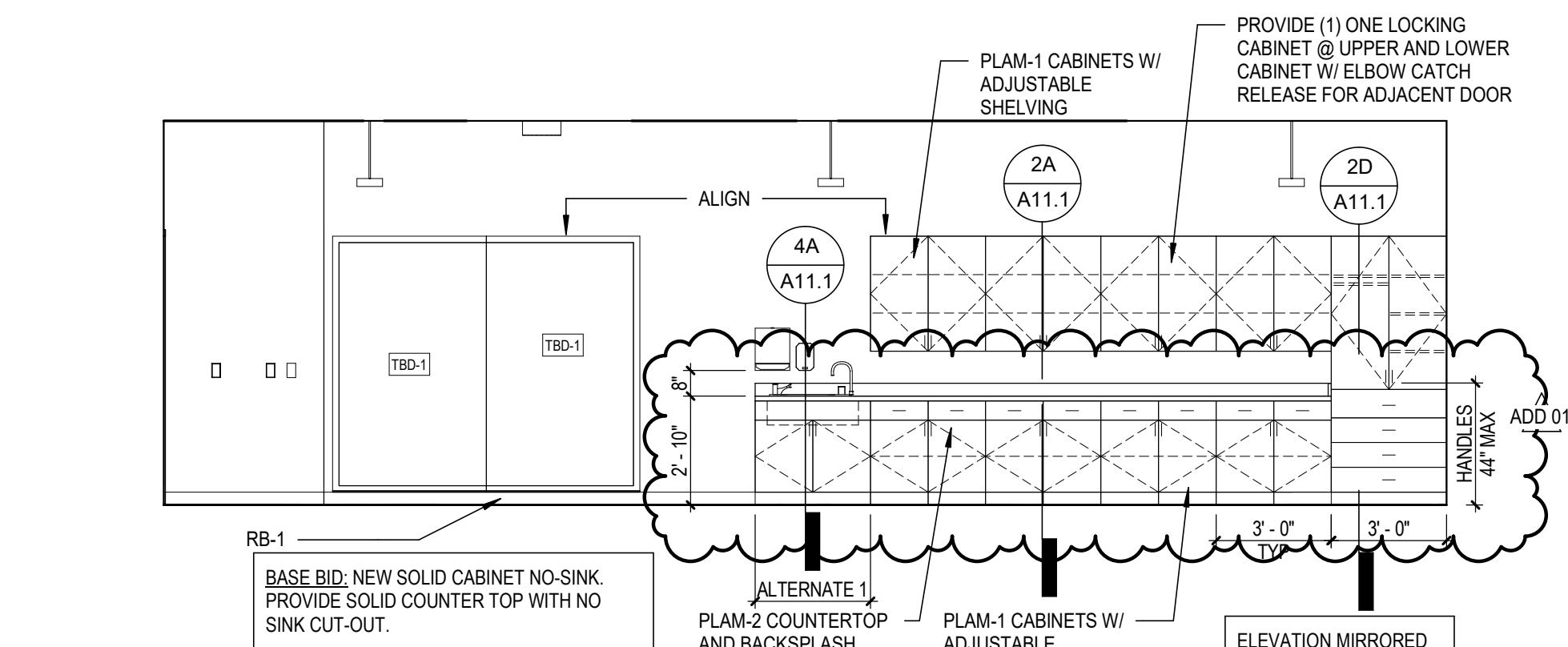
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1A NEW CLASSROOM G102 - N

A10.1 SCALE: 1/4" = 1'-0"

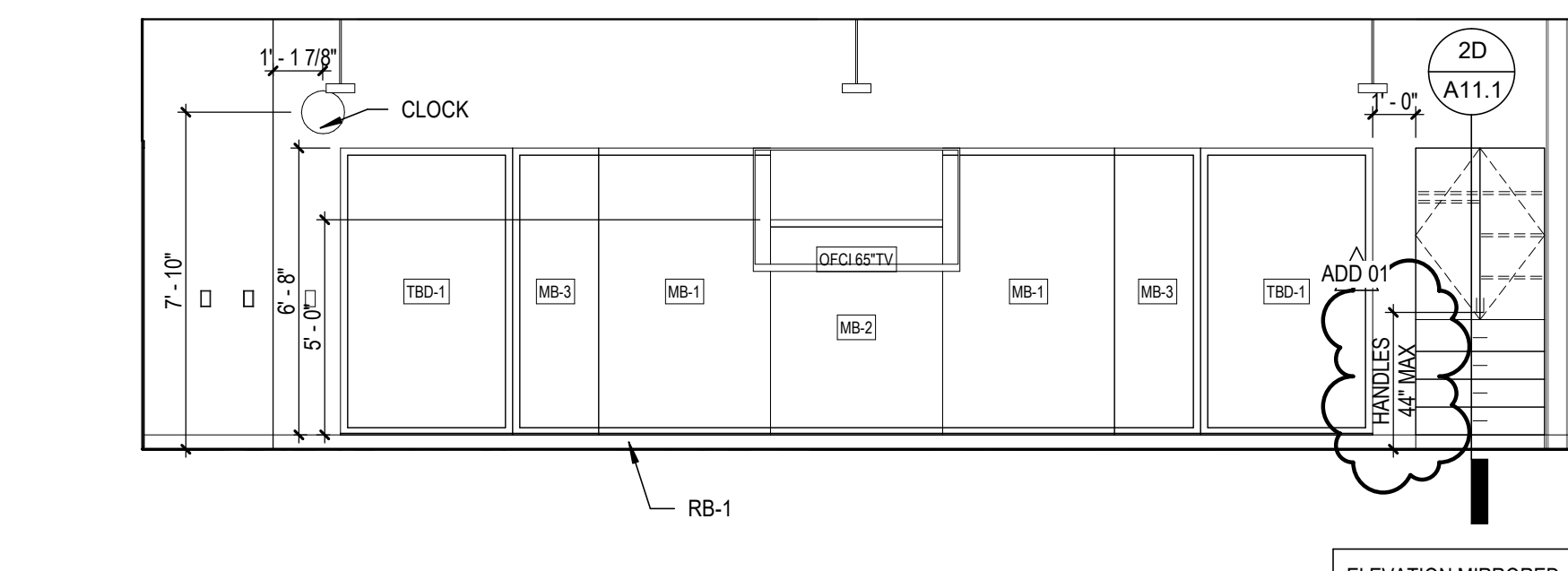
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2A NEW CLASSROOM G102 - S

A10.1 SCALE: 1/4" = 1'-0"

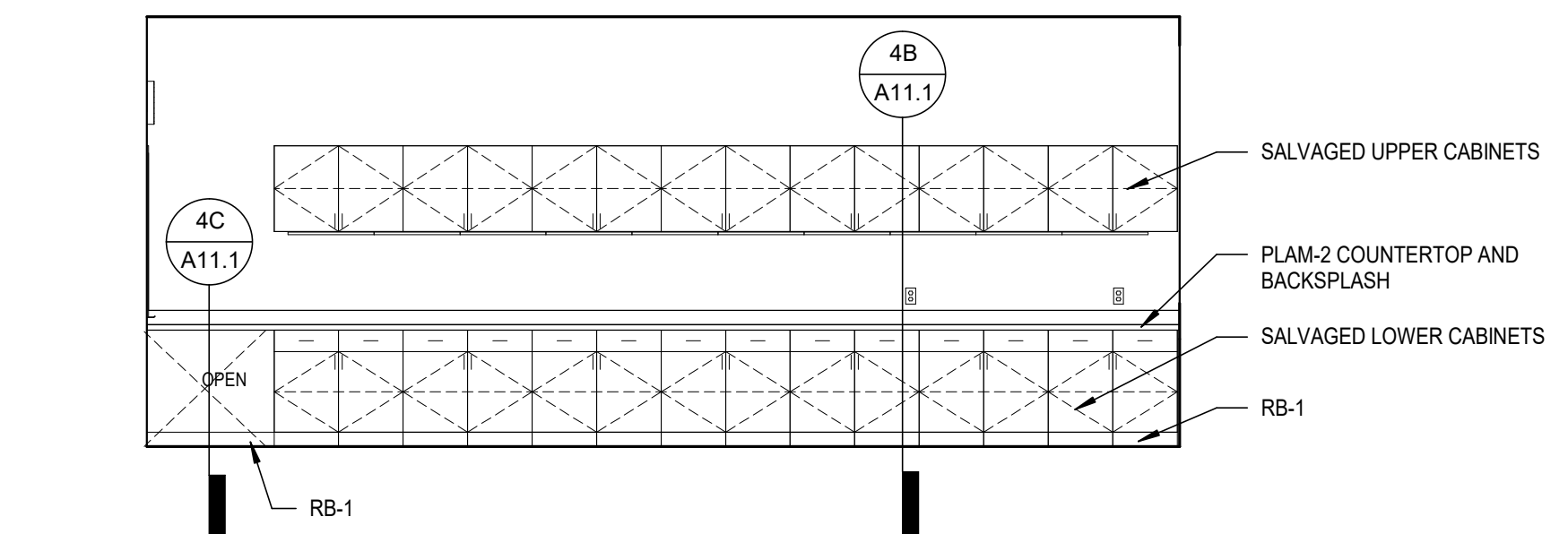
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3A NEW CLASSROOM G106 - E

A10.1 SCALE: 1/4" = 1'-0"

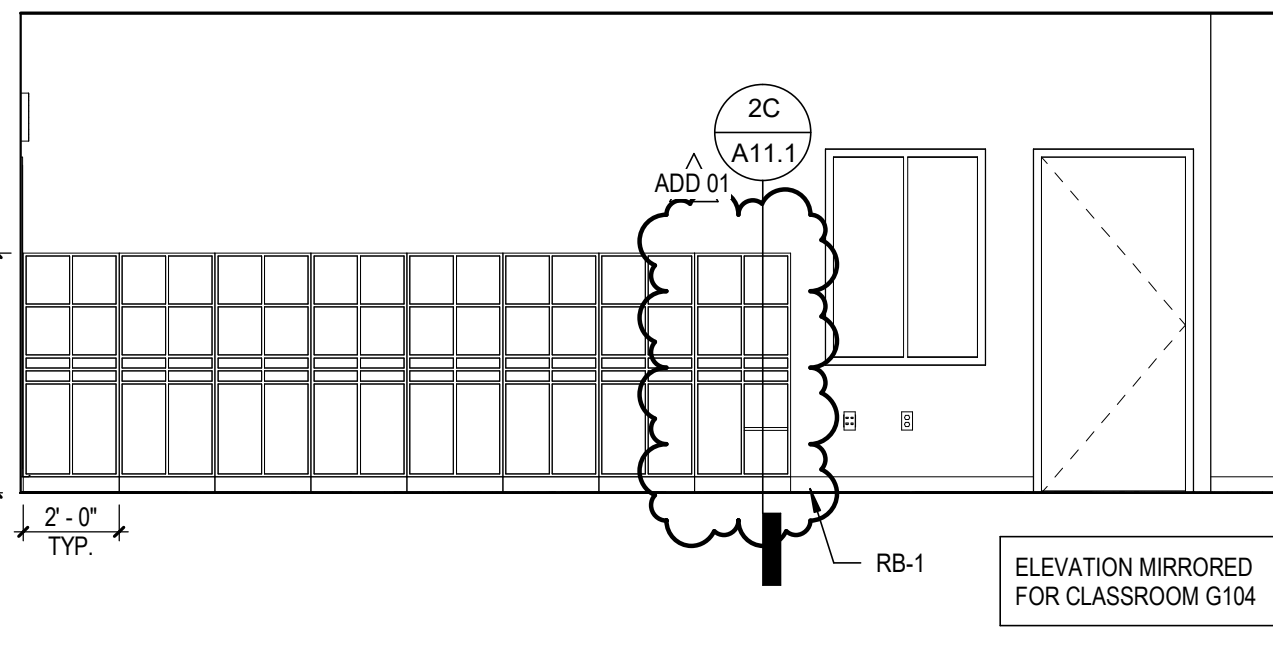
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4A WORK ROOM - E

A10.1 SCALE: 1/4" = 1'-0"

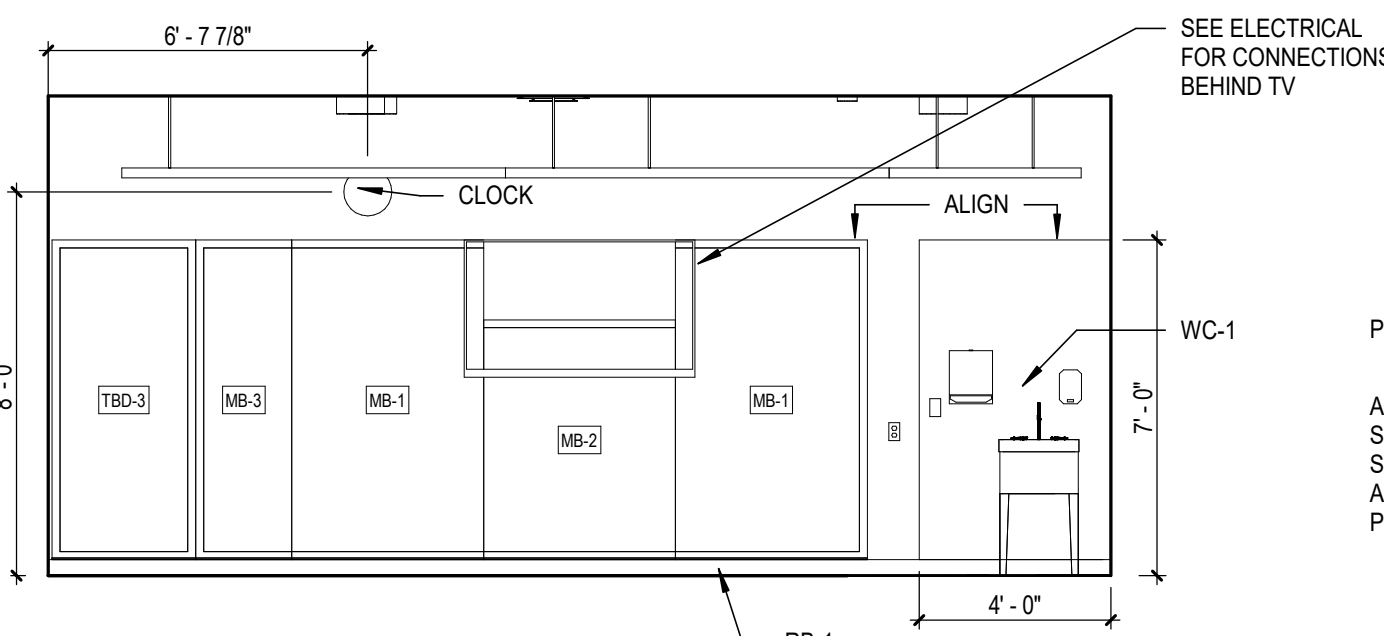
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1C NEW CLASSROOM G102 - E

A10.1 SCALE: 1/4" = 1'-0"

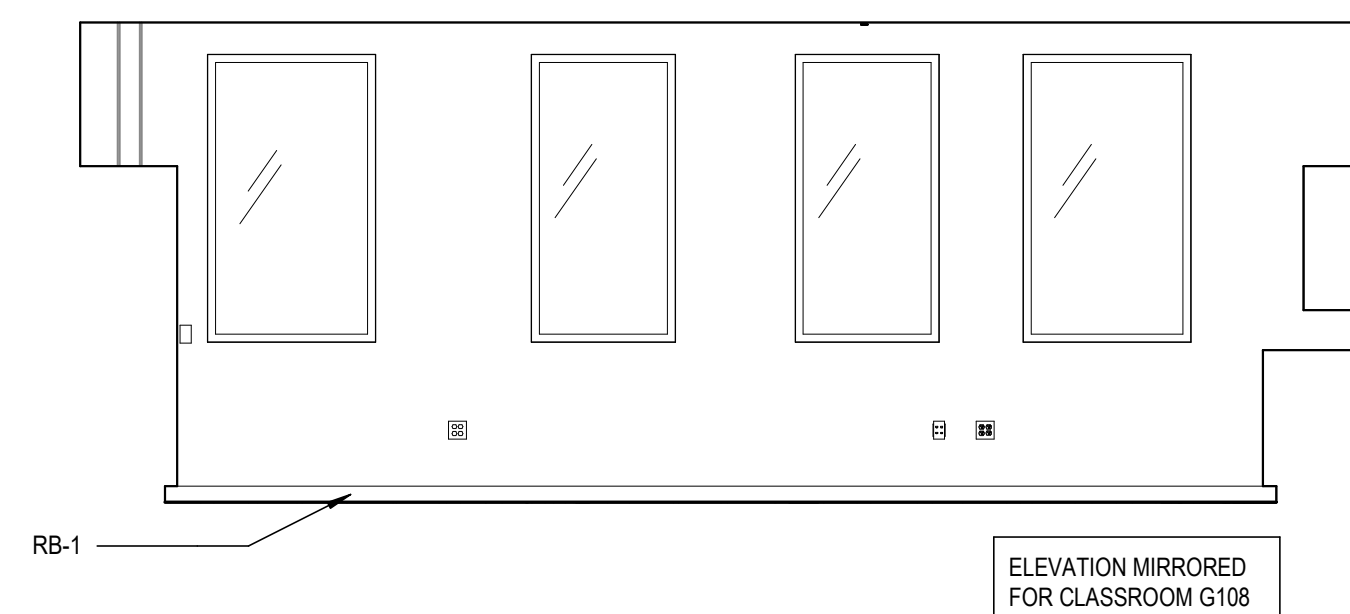
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2C COMPUTER LAB - N

A10.1 SCALE: 1/4" = 1'-0"

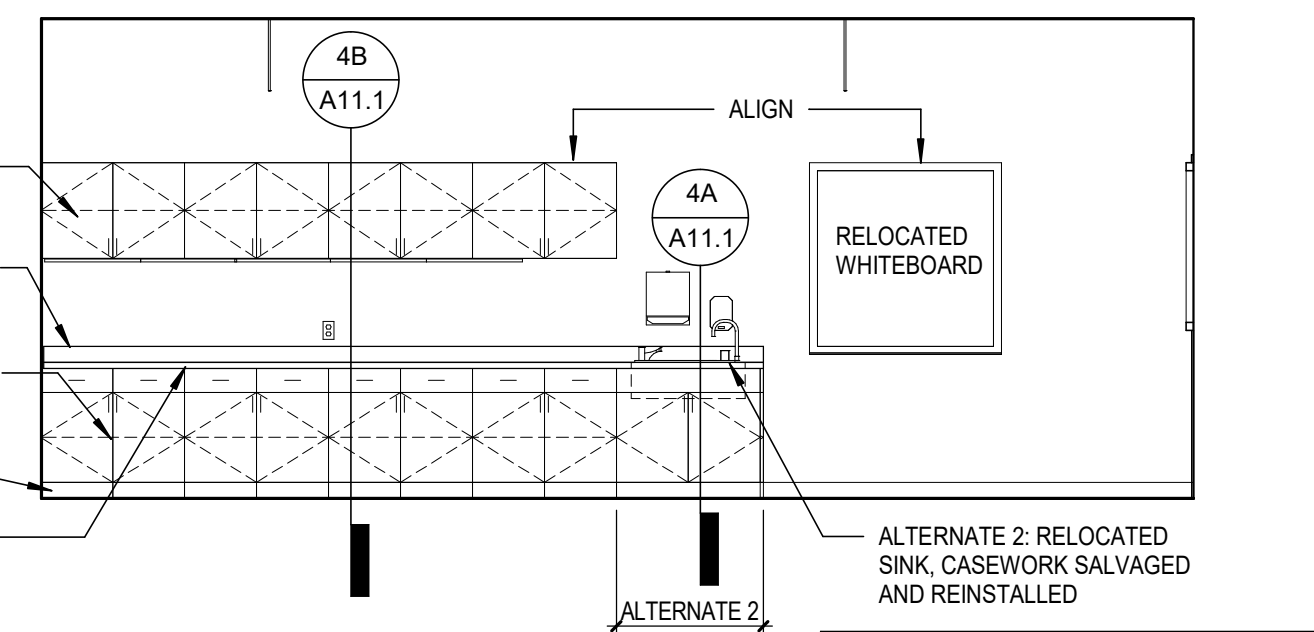
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3C NEW CLASSROOM G106 - S

A10.1 SCALE: 1/4" = 1'-0"

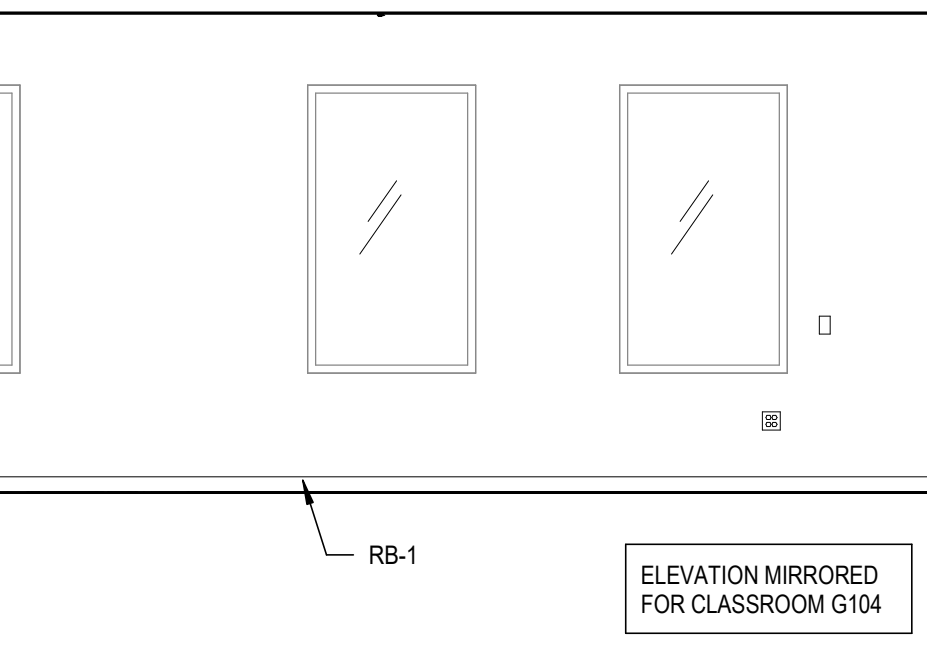
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4C WORK ROOM - W

A10.1 SCALE: 1/4" = 1'-0"

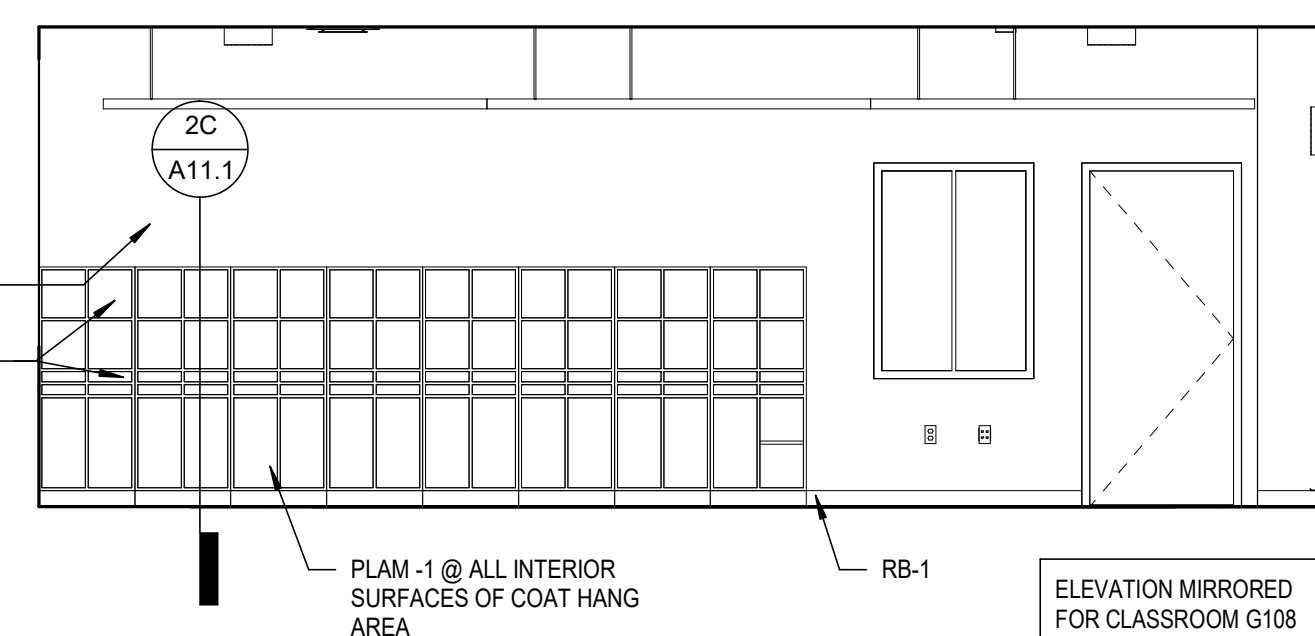
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1D NEW CLASSROOM G102 - W

A10.1 SCALE: 1/4" = 1'-0"

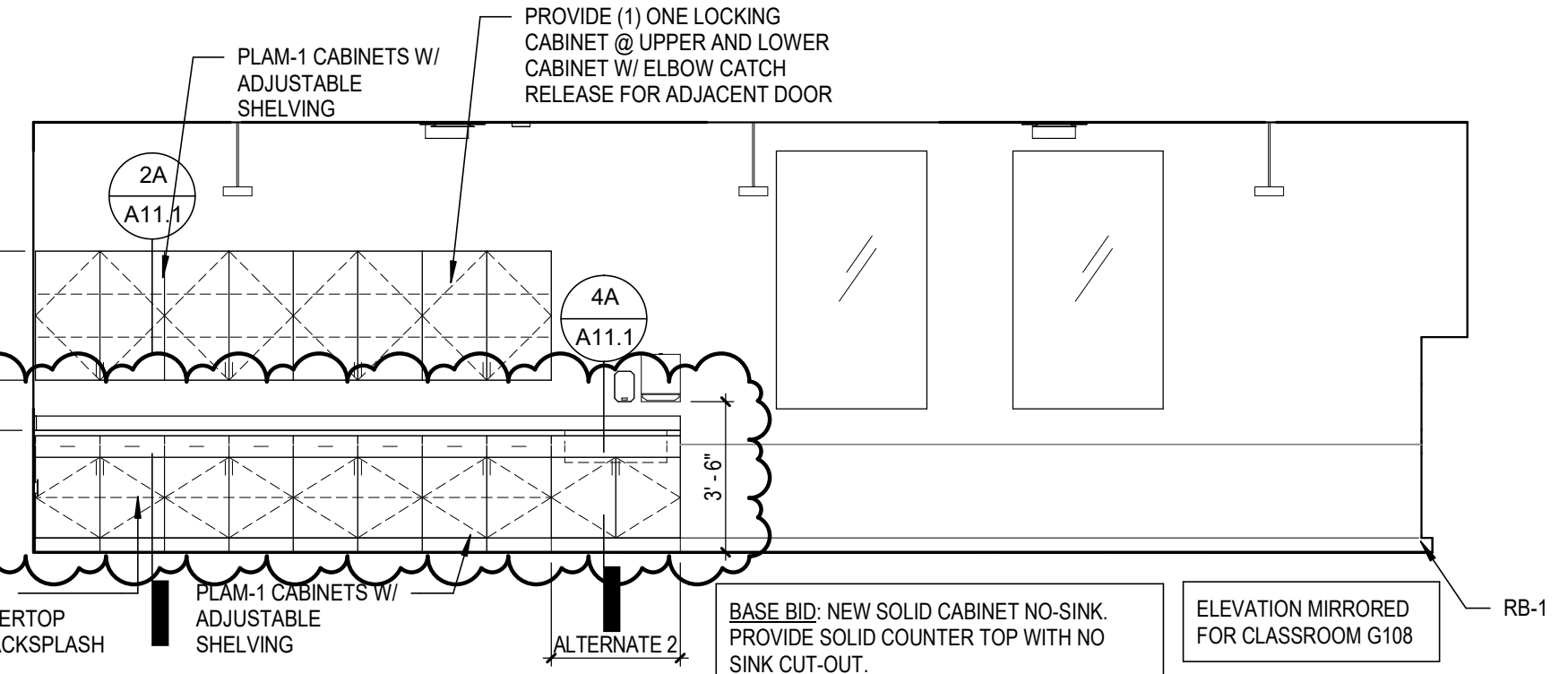
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2D NEW CLASSROOM G106 - N

A10.1 SCALE: 1/4" = 1'-0"

3



3D NEW CLASSROOM G106 - W

A10.1 SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES:

- INTERIOR ELEVATION GENERAL NOTES APPLY TO ALL INTERIOR ELEVATION SHEETS.
- NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR ELEVATION SHEETS. SEE ROOM FINISH SCHEDULE ON A0.2 FOR FLOOR AND WALL FINISHES NOT NOTED.
- SEE COLOR & MATERIALS SCHEDULE ON A0.1 FOR MATERIALS DESCRIPTIONS.
- ALL WALLS TO BE PT-1 UNLESS NOTED OTHERWISE.
- ALL EXPOSED HVAC, DUCTS, MECH SYSTEMS AND EXPOSED STRUCTURE TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE IN ROOM FINISH SCHEDULE.
- REFER TO SIGNAGE PACKAGE FOR ALL SPECIALIZED WALL GRAPHICS FOR COLOR, MATERIAL, AND DIMENSIONS.
- ALL ELECTRONIC FILES FOR GRAPHICS TO BE PROVIDED BY ARCHITECT.
- REFER TO FLOOR PLAN FOR ALL MARKERBOARD LOCATIONS.
- ALL WALLS TO RECEIVE RB-1 WALL BASE UNO.
- ALL HOLLOW METAL DOOR & WINDOW FRAMES TO RECEIVE PT-3 UNO.
- WAINSCOT UP TO 4' AFF IN HALLWAYS WITH MDF-1

CASEWORK GENERAL NOTES:

- CASEWORK AND MILLWORK GENERAL NOTES APPLY TO ALL CASEWORK AND MILLWORK SHEETS.
- ELEVATIONS DENOTED AS MILLWORK ARE SPECIFIED UNDER DIVISION 06 OTHERS CONSIDERED CASEWORK SPECIFIED UNDER DIVISION 12 UNLESS NOTED OTHERWISE.
- BASE AND TALL STORAGE CABINETS: 24 INCHES DEEP, UNLESS NOTED OTHERWISE.
- TALL STORAGE UNITS TO BE 24 INCHES DEEP, UNLESS NOTED OTHERWISE.
- PROVIDE ADJUSTABLE SHELVING IN CASEWORK, UNLESS NOTED OTHERWISE.
- PROVIDE SUBSTRATE OF MARINE GRADE PLYWOOD FOR ALL COUNTERTOPS FITTED WITH SINKS.
- PROVIDE SUBSTRATE OF MDO FOR ALL COUNTERTOPS NOT FITTED WITH SINKS.
- INDICATES CASEWORK TO BE BID AS AN ALTERNATE. SEE PROJECT MANUAL FOR ALTERNATE DESCRIPTIONS.
- WHERE ELECTRICAL DEVICES ARE LOCATED IN CASEWORK, CASEWORK CONTRACTOR SHALL PROVIDE FINISHED OPENINGS. COORDINATE LOCATION AND QUANTITY WITH ELECTRICAL CONTRACTOR.
- PROVIDE JOINT SEALANT AT PERIMETER JOINTS WHERE COUNTERTOPS, BACK AND SIDE SPLASHES, CASEWORK, AND MILLWORK ABUT WALLS.
- FIELD VERIFY DIMENSIONS OF CABINET LOCATIONS IN BUILDING PRIOR TO FABRICATION.
- PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK AND MILLWORK.
- ALL EXPOSED SURFACES IN OPEN SHELVING SHALL BE PLASTIC LAMINATE COVERED.
- WHEN LINEAR PATTERN ON PLAM, SOLID SURFACE OR RESIN/PLASTIC PANELS OCCURS, PATTERN TO RUN VERTICALLY, UNLESS NOTED OTHERWISE.
- PROVIDE T-MOLDING AT ALL EXPOSED EDGES OF CABINETS, OR CUBBIES UNO. T-MOLDING TO MATCH COLOR OF ADJACENT PLAM UNO.
- PROVIDE WD-1 BEVELED HARDWOOD EDGE BAND AT ALL PLAM COUNTERTOPS. PROVIDE WF-1 SEALER ON EDGE/BAND TYP.
- ALL CABINETS TO BE PLAM-1 UNO, ALL COUNTERTOPS & BACKSPLASH TO BE PLAM-2 UNO.
- FURNISH AND INSTALL FIRE-RETARDANT-TREATED WOOD BLOCKING IN STEEL STUD PARTITIONS FOR PROPER ANCHORAGE OF WALL ATTACHED ITEMS, I.E. TOILET ACCESSORIES, TOILET PARTITIONS, CASEWORK, MILLWORK, WAINSCOT PANELS, WALL-MOUNTED FIXTURES, MARKERBOARDS, TACKBOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, ETC.

VOSE ES ADDITION
BEAVERTON SCHOOL DISTRICT

11350 SW DENNEY RD
BEAVERTON, OR 97008

100% CD
2/26/2021
REVISIONS
ADD 01 9/21/2021

74-21102-00

INTERIOR
ELEVATIONS

A10.1

DLR Group
REGISTERED ARCHITECT
JANE E. GOODING
PORTLAND, OR
6821
STATE OF OREGON

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4

3

2

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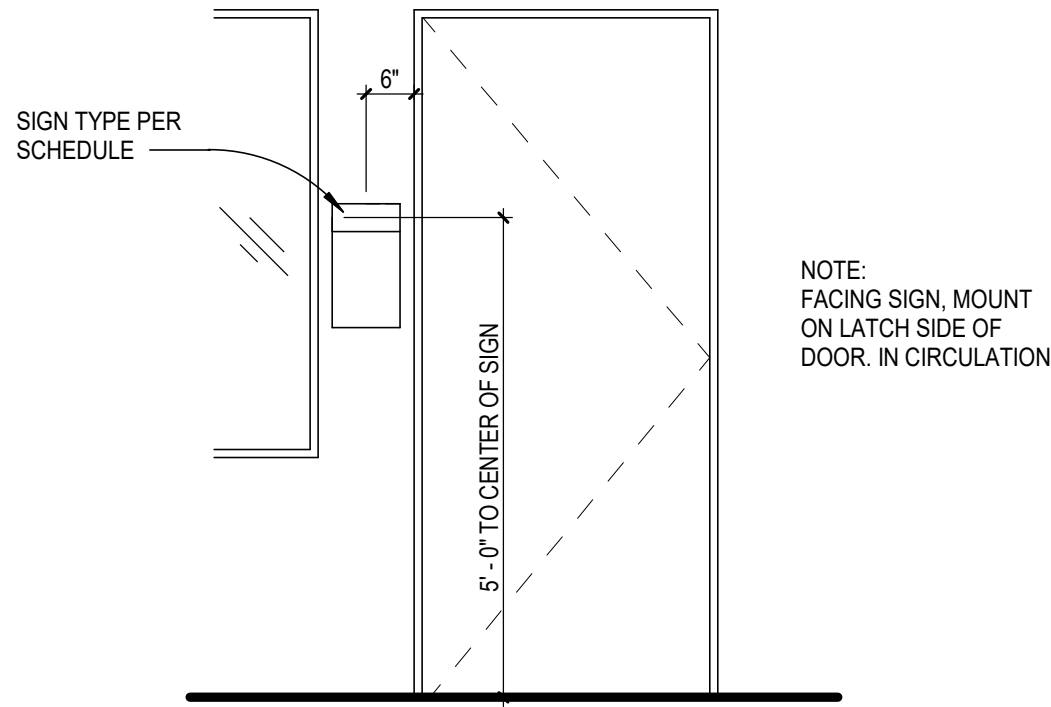
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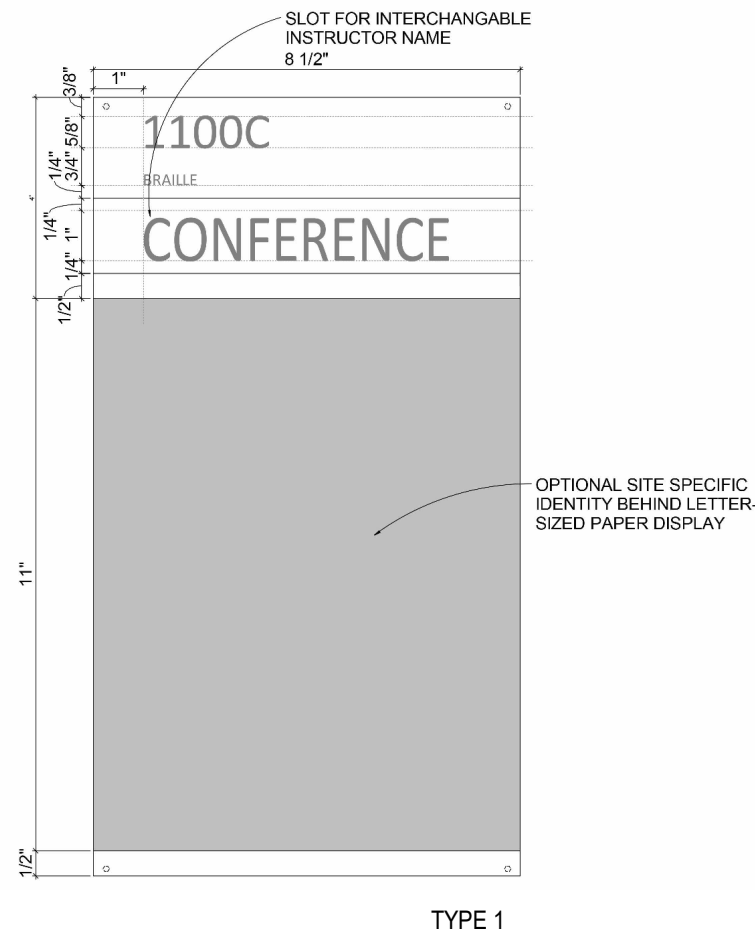
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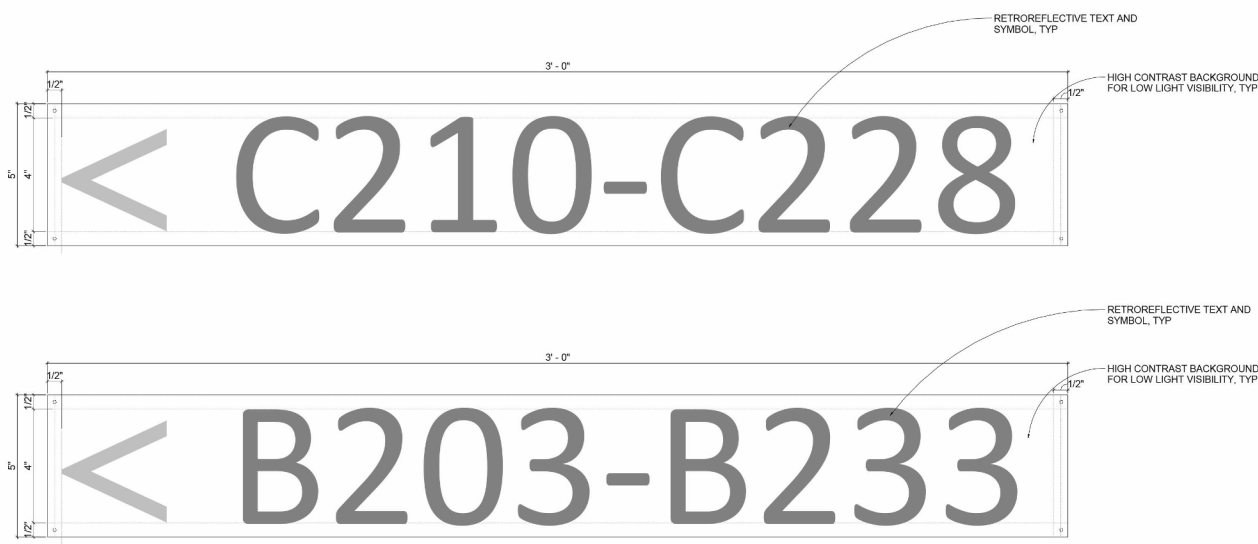
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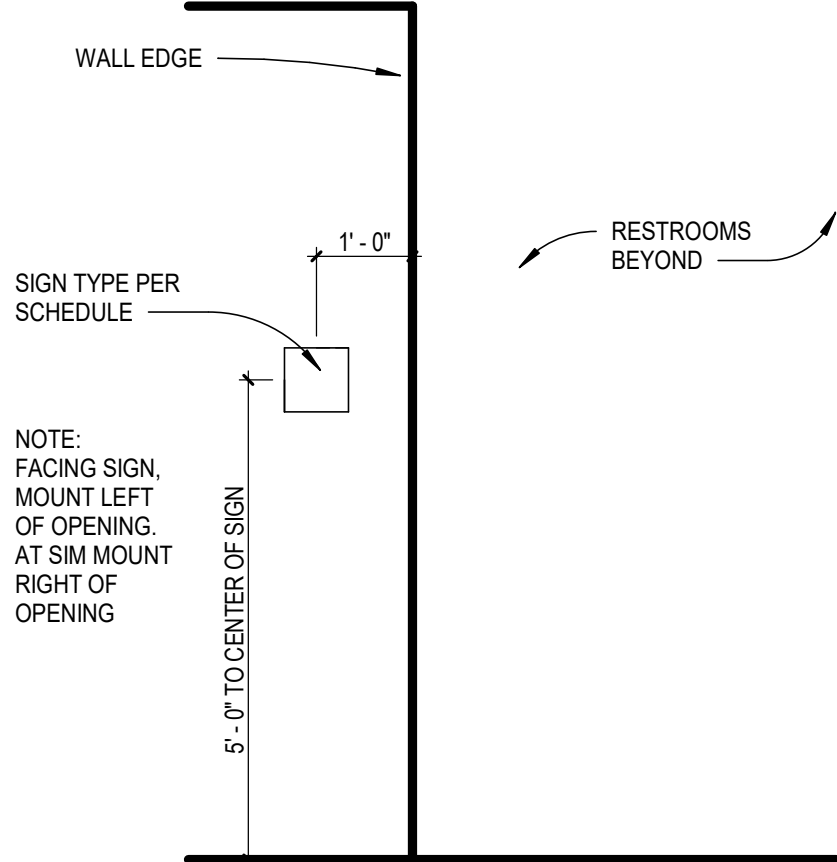
1A SIGN LOCATION 1
A10.3 SCALE: 1/2" = 1'-0"



2A ROOM NAME AND NUMBER SIGN - TYPE 1
A10.3 SCALE: 3/8" = 1'-0"



3A DIRECTIONAL SIGN - NAME/NUMBER - TYPE 4
A10.3 SCALE: 3/8" = 1'-0"



1B SIGN LOCATION 2
A10.3 SCALE: 1/2" = 1'-0"



2D UNISEX RESTROOM SIGN - TYPE 2
A10.3 SCALE: 3/8" = 1'-0"

Calibri Regular & Bold : All Interior & Exterior Directional Signage

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

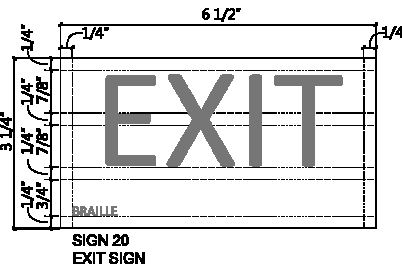
Project Symbols



1E SIGN FONT TYPE & SYMBOLS
A10.3 SCALE: 3/8" = 1'-0"

SIGNAGE GENERAL NOTES:

- A. ALL SIGNS TO BE PLACED ON CIRCULATION SIDE OF ROOM CALLOUT U.N.O.
B. COORDINATE WITH ARCHITECT FOR ROOM CALLOUTS FOR SIGN TYPES 4



SEE CODE PLANS FOR EXIT SIGN LOCATIONS

3B EXIT SIGN - TYPE 3
A10.3 SCALE: 3/8" = 1'-0"

SIGN SCHEDULE			
ROOM #	ROOM NAME	SIGN TYPE	REMARKS
G100	CIRCULATION	4	
G100	CIRCULATION	3	
G100	CIRCULATION	3	
G101	RESTROOM	2	ALT. 1 OPTION
G102	NEW CLASSROOM	1	
G103	RESTROOM	2	ALT. 1 OPTION
G104	NEW CLASSROOM	1	
G106	NEW CLASSROOM	1	
G108	NEW CLASSROOM	1	
G110	LIBRARY	1	
G110	LIBRARY	3	
G112	WORK ROOM	1	
G114	COMPUTER LAB	1	

A

B

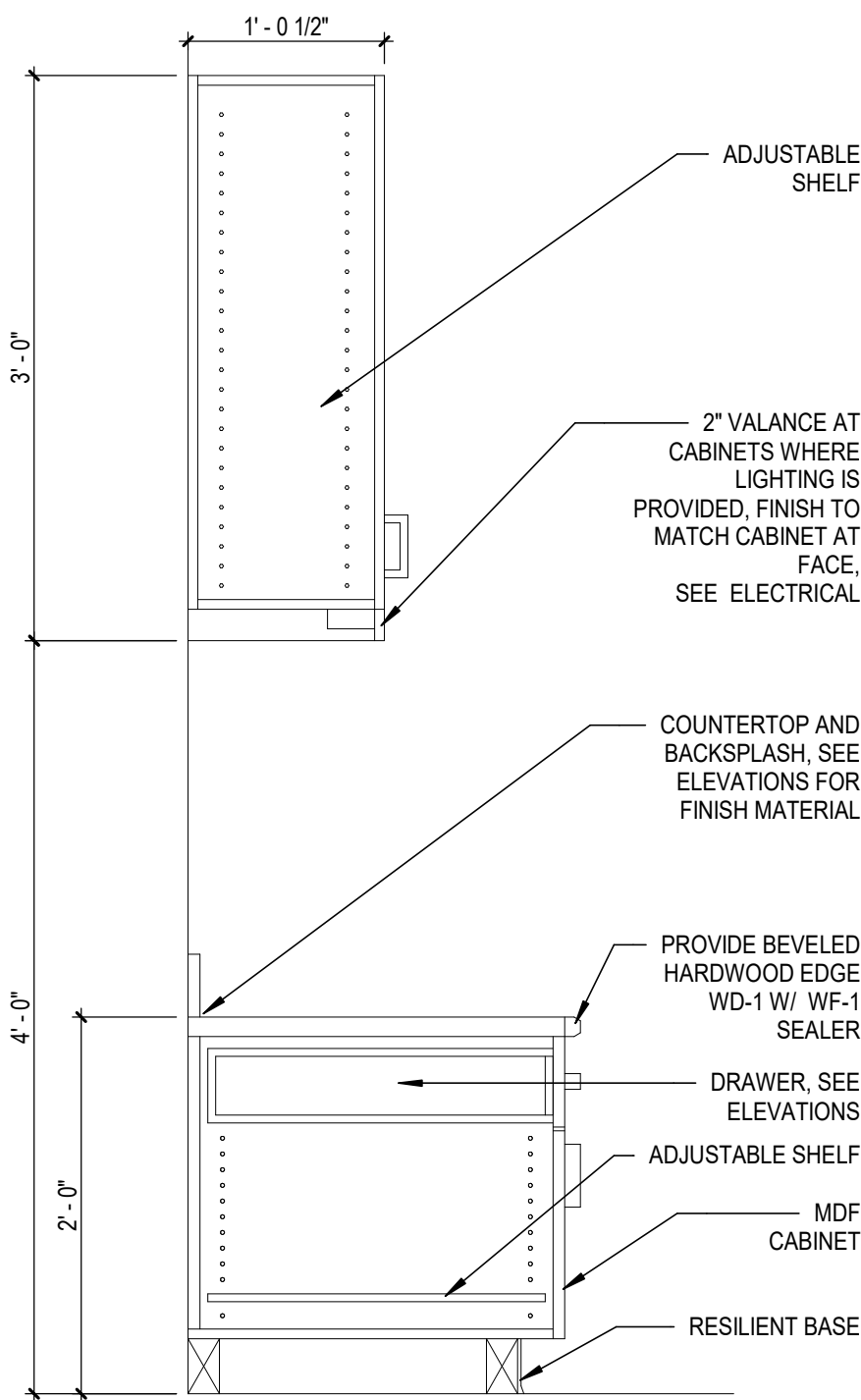
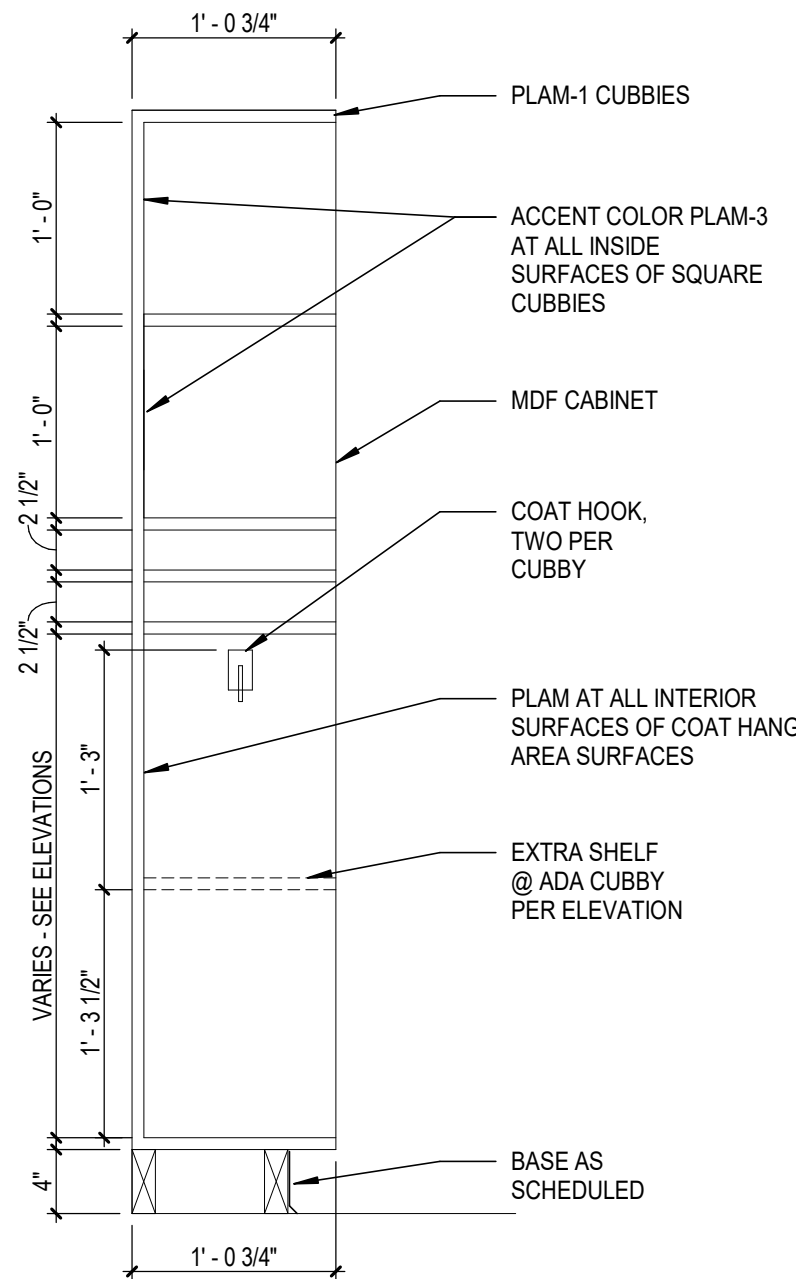
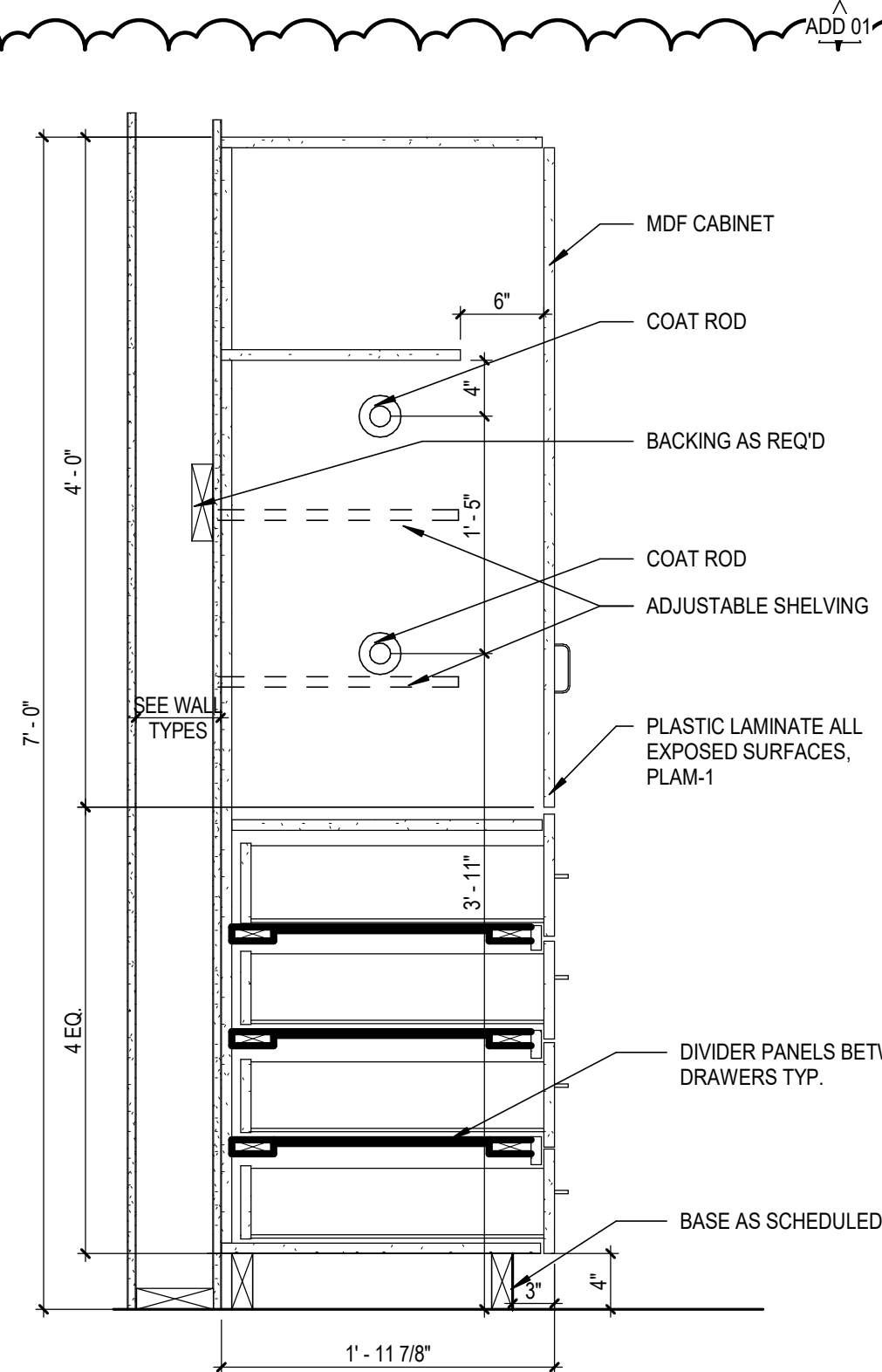
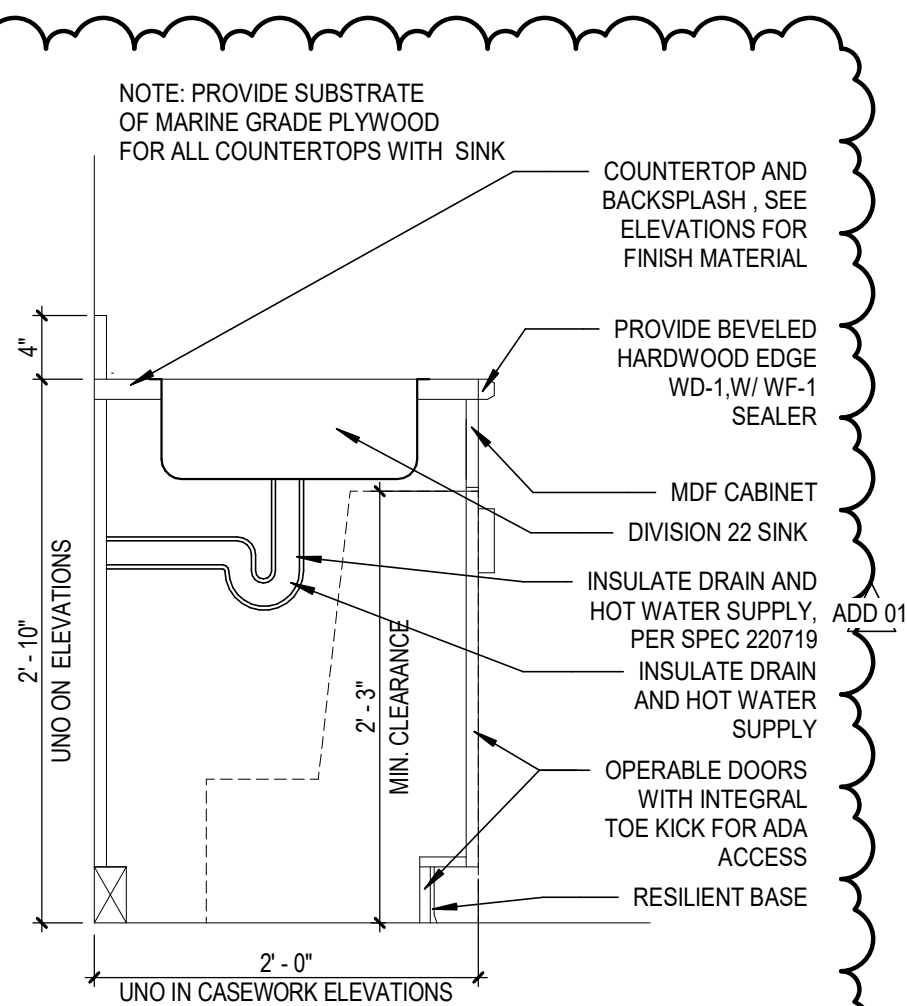
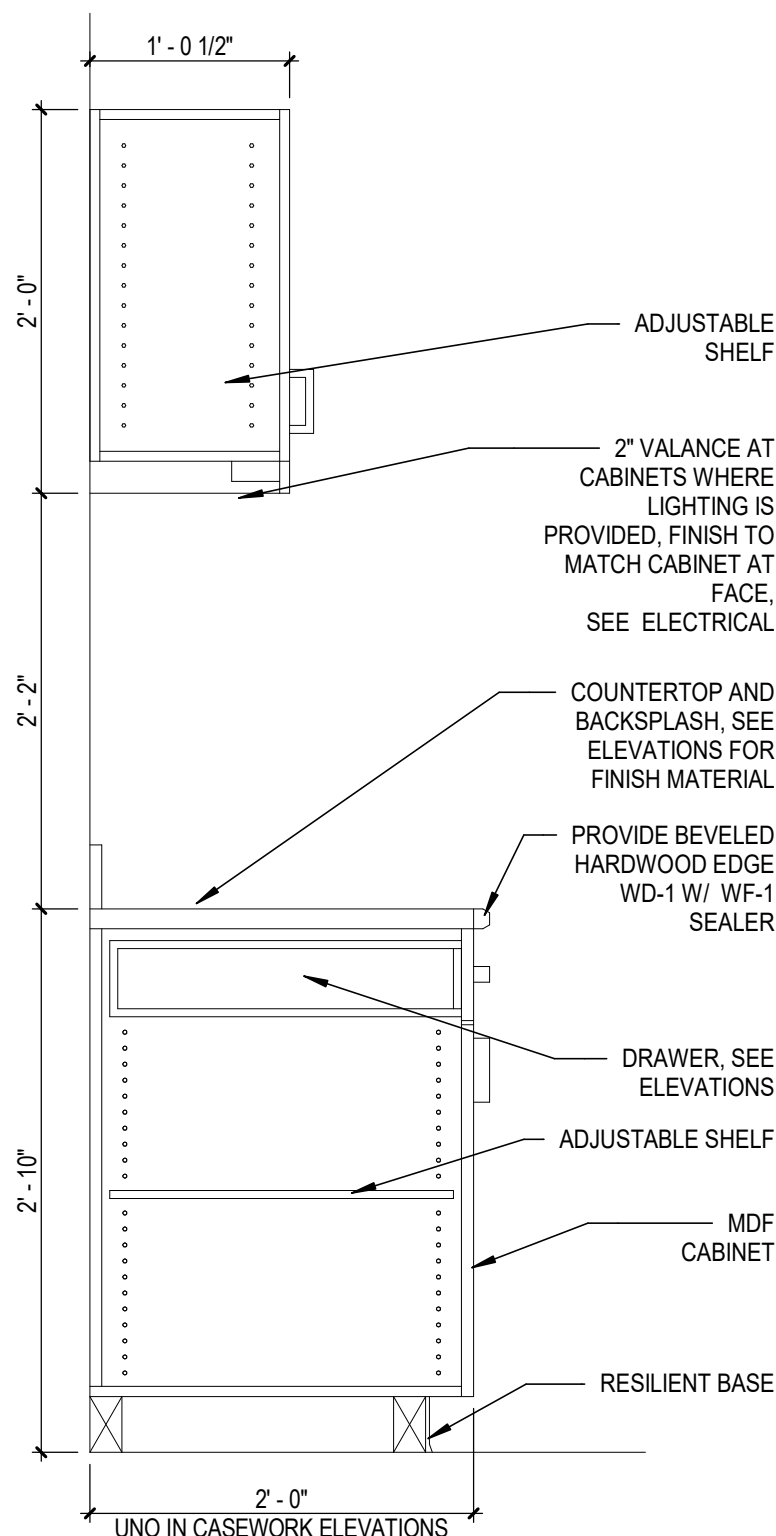
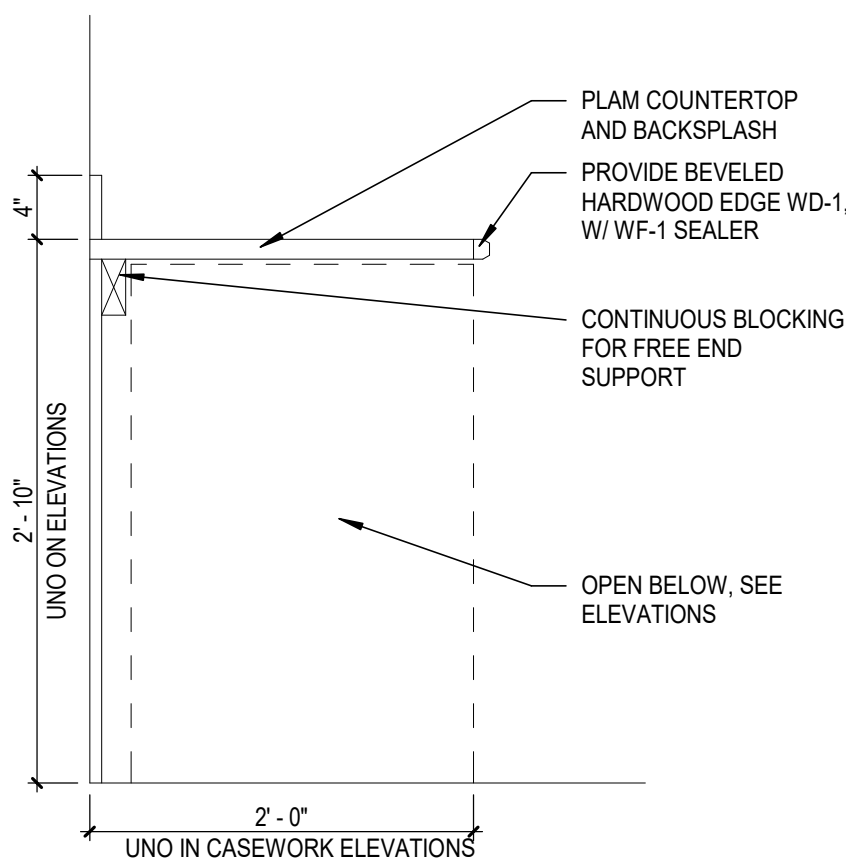
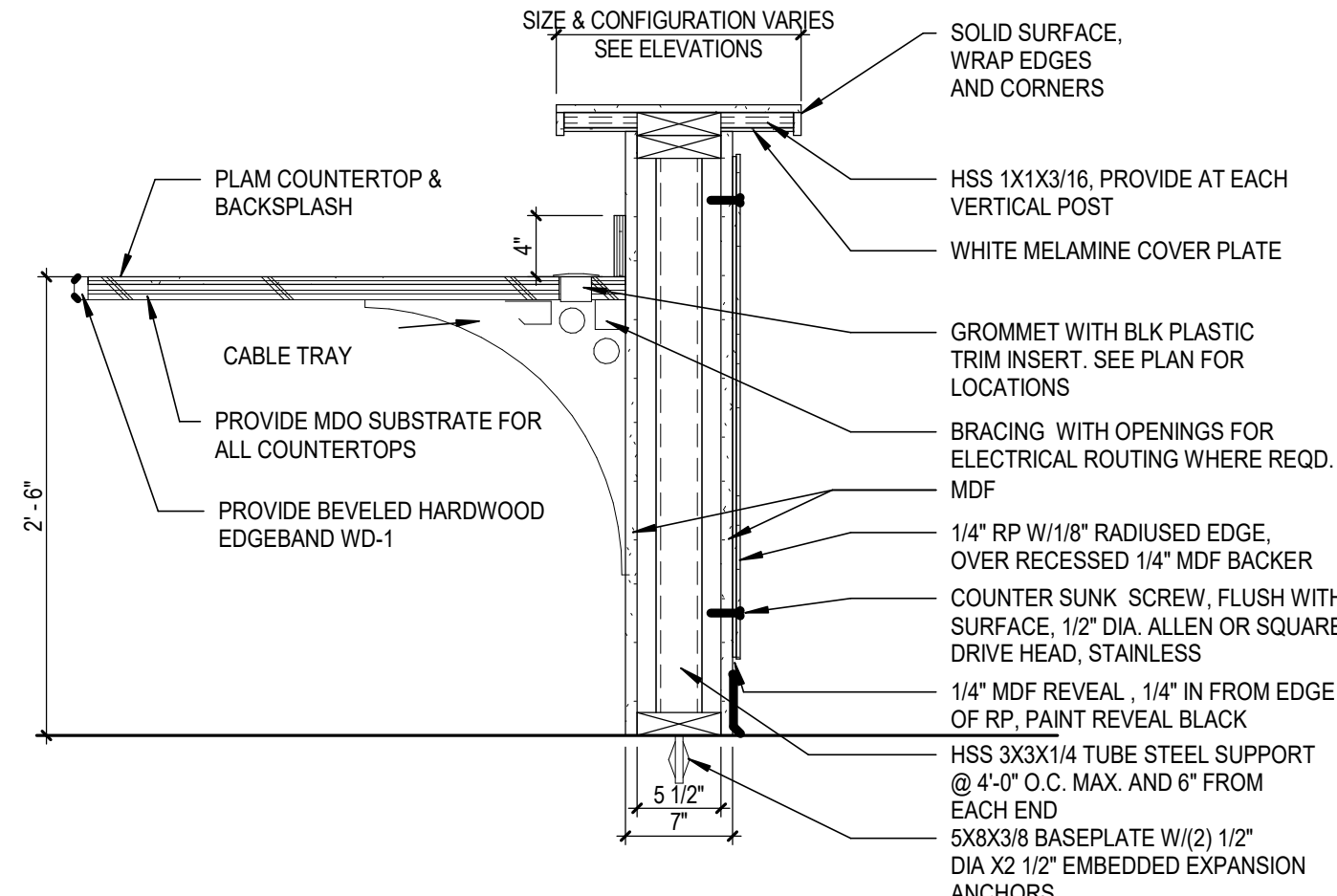
C

D

E

CASEWORK AND MILLWORK
GENERAL NOTES

- A. CASEWORK AND MILLWORK GENERAL NOTES APPLY TO ALL CASEWORK AND MILLWORK SHEETS.
- B. ELEVATIONS DENOTED AS MILLWORK ARE SPECIFIED UNDER DIVISION 06, OTHERS CONSIDERED CASEWORK SPECIFIED UNDER DIVISION 12, UNLESS NOTED OTHERWISE.
- C. BASE AND TALL STORAGE CABINETS: 24 INCHES DEEP, UNLESS NOTED OTHERWISE.
- D. WALL CABINETS: 14 INCHES DEEP, UNLESS NOTED OTHERWISE.
- E. TALL STORAGE UNITS TO BE 24 INCHES DEEP, UNLESS NOTED OTHERWISE.
- F. PROVIDE ADJUSTABLE SHELVING IN CASEWORK, UNLESS NOTED OTHERWISE.
- G. PROVIDE SUBSTRATE OF MARINE GRADE PLYWOOD FOR ALL COUNTERTOPS FITTED WITH SINKS.
- H. PROVIDE SUBSTRATE OF MDO FOR ALL COUNTERTOPS NOT FITTED WITH SINKS.
- I. INDICATES CASEWORK TO BE BID AS AN ALTERNATE. SEE PROJECT MANUAL FOR ALTERNATE DESCRIPTIONS.
- J. WHERE ELECTRICAL DEVICES ARE LOCATED IN CASEWORK, CASEWORK CONTRACTOR SHALL PROVIDE FINISHED OPENINGS. COORDINATE LOCATION AND QUANTITY WITH ELECTRICAL CONTRACTOR.
- K. PROVIDE JOINT SEALANT AT PERIMETER JOINTS WHERE COUNTERTOPS, BACK AND SIDE SPLASHES, CASEWORK, AND MILLWORK ABUT WALLS.
- L. FIELD VERIFY DIMENSIONS OF CABINET LOCATIONS IN BUILDING PRIOR TO FABRICATION.
- M. PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK AND MILLWORK.
- N. ALL EXPOSED SURFACES IN OPEN SHELVING SHALL BE PLASTIC LAMINATE COVERED.
- O. WHEN LINEAR PATTERN ON PLAM, SOLID SURFACE OR RESIN/PLASTIC PANELS OCCURS, PATTERN TO RUN VERTICALLY, UNLESS NOTED OTHERWISE.
- P. PROVIDE T-MOLDING AT ALL EXPOSED EDGES OF CABINETS, OR CUBBIES UNO. T-MOLDING TO MATCH COLOR OF ADJACENT PLAM UNO.
- Q. PROVIDE WD-1 BEVELED HARDWOOD EDGE BAND AT ALL PLAM COUNTERTOPS. PROVIDE WF-1 SEALER ON EDGE/BAND TYP.
- R. ALL CABINETS TO BE PLAM-1 UNO, ALL COUNTERTOPS & BACKSPLASH TO BE PLAM-2 UNO.

2A TYP. BASE CABINET W/ UPPER (CLASSROOMS)
A11.1 SCALE: 1" = 1'-0"2C TYP. CLASSROOM CUBBIES
A11.1 SCALE: 1" = 1'-0"2D WARDROBE / TALL STORAGE CABINET
A11.1 SCALE: 1" = 1'-0"4A TYP. BASE CABINET AT SINK
A11.1 SCALE: 1" = 1'-0"4B TYP. BASE CABINET W/ UPPER
A11.1 SCALE: 1" = 1'-0"4C TYP. BASE CABINET OPEN BELOW
A11.1 SCALE: 1" = 1'-0"4D LIBRARY CIRCULATION DESK SECTION (EXISTING - FOR REFERENCE ONLY)
A11.1 SCALE: 1" = 1'-0"

A

B

C

D

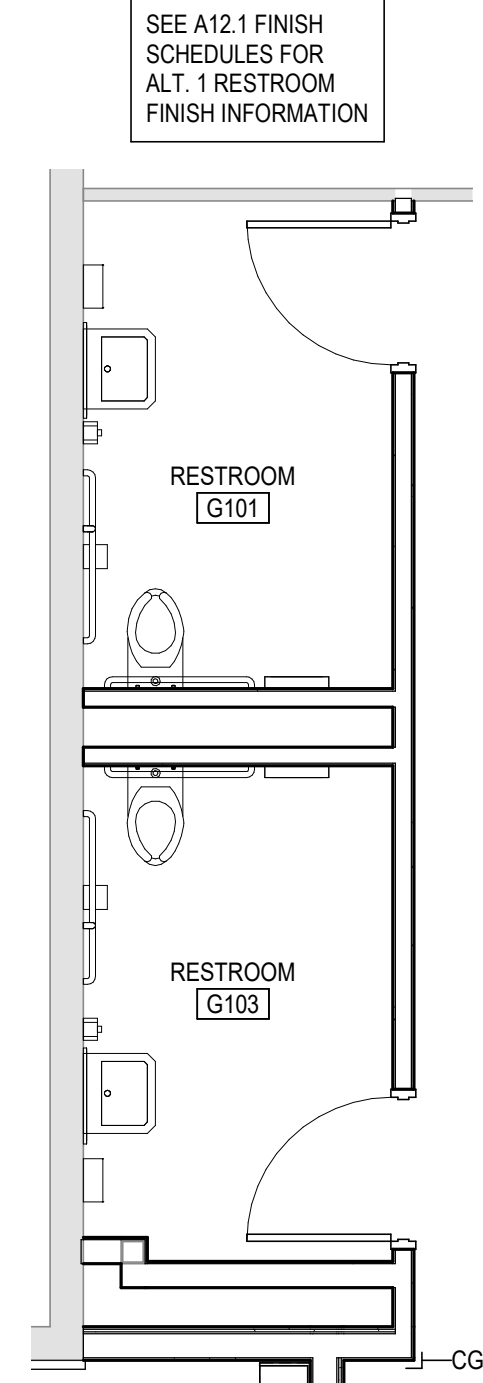
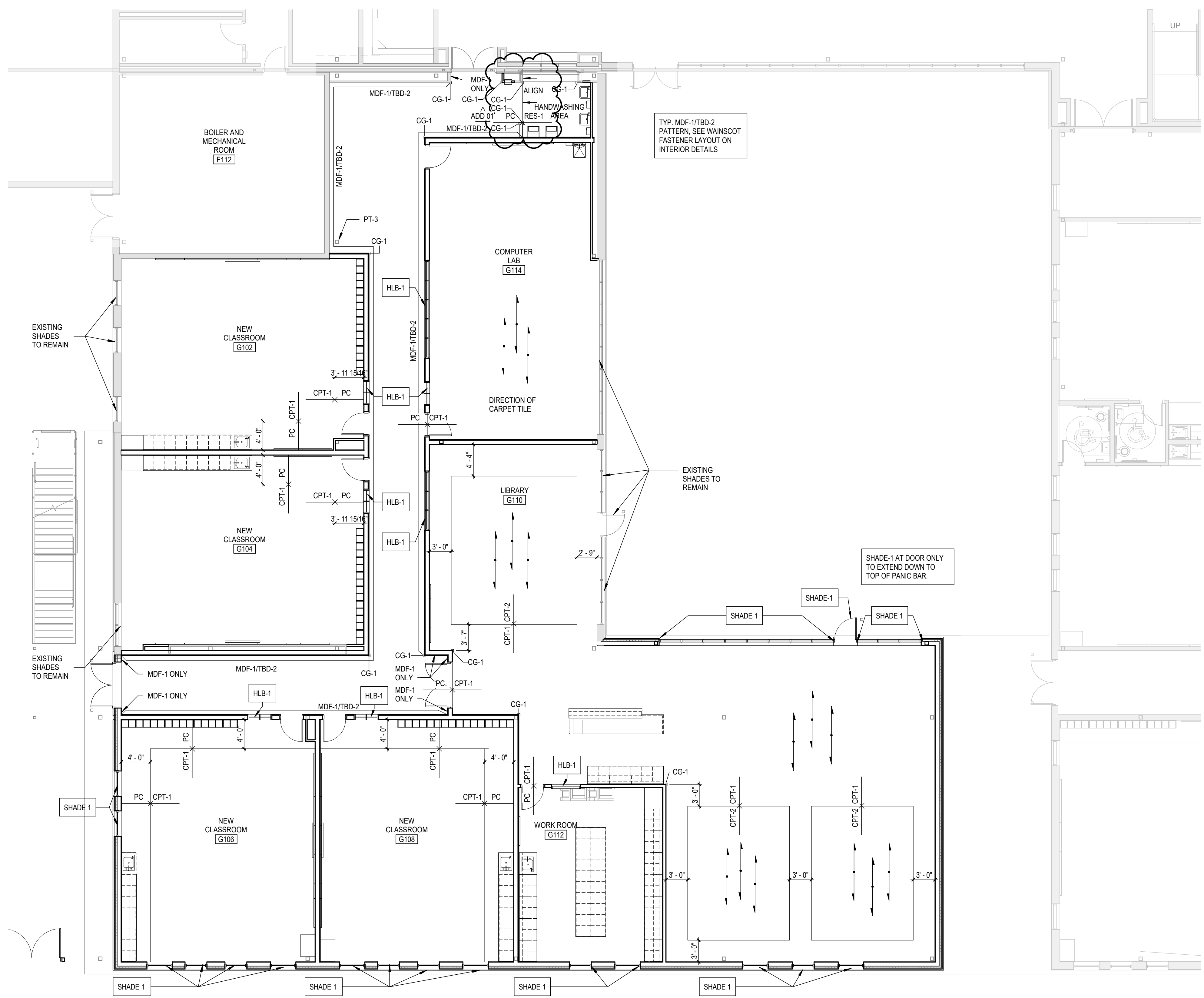
E

INTERIOR FINISH PLAN
GENERAL NOTES

- A. INTERIOR PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
B. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS AND INTERIOR ELEVATION SHEETS. SEE ROOM FINISH SCHEDULE ON A12.1 FOR FLOOR AND WALL FINISHES NOT NOTED.
C. SEE COLOR & MATERIALS SCHEDULE ON A12.1 FOR MATERIALS DESCRIPTIONS & LOCATIONS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE WITH THE APPROVAL OF THE ARCHITECT, AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THAN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. ALL WALLS TO BE PT-1 UNLESS NOTED OTHERWISE.
G. ALL EXPOSED HVAC, DUCTS, MECH SYSTEMS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE IN ROOM FINISH SCHEDULE.
H. ALL ELECTRONIC FILES FOR GRAPHICS TO BE PROVIDED BY ARCHITECT.
I. WHERE TWO DIFFERENT MATERIALS MEET AT DOOR, CENTER TRANSITION IN DOORWAY.
J. FOR CERAMIC TILE FLOORS, PROVIDE TILE COVE BASE AT BOTH TILED AND UN-TILED WALLS.
K. EXPOSED CONCRETE WALLS TO REMAIN UNPAINTED UNO. PAINT ALL EXPOSED PRECAST CONCRETE WALL STEEL CONNECTIONS TO MATCH ADJACENT CONCRETE.
L. PAINT ALL INTERIOR EXPOSED COLUMNS PT-2 UNO.
M. PAINT ALL EXTERIOR EXPOSED COLUMNS AND BRACE FRAMES PT-3.

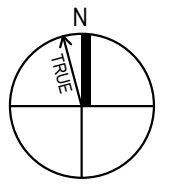
DLR Group
© DLR Group

REGISTERED ARCHITECT
JANE E. GOODING
PORTLAND, OR
6821
STATE OF OREGON



ALT. 1 - RR FINISH PLAN

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



FIRST FLOOR FINISH PLAN

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

VOSE ES ADDITION

BEAVERTON SCHOOL DISTRICT

11350 SW DENNEY RD
BEAVERTON, OR 97008

100% CD
2/26/2021
REVISIONS
ADD 01 9/21/2021

74-21102-00

FIRST FLOOR
FINISH PLAN

A12.2

GENERAL NOTES

- 1 REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.
- 2 THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.
- 3 THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
- 4 WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
- 5 COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
- 6 THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
- 7 FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
- 8 LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
- 9 ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
- 10 LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
- 11 FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. REFER TO SPECIFICATION.
- 12 PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
- 13 ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
- 14 REFER TO PLUMBING SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.
- 15 PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
- 16 FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
- 17 INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
- 18 LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
- 19 INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

GENERAL HVAC NOTES

- 1 SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
- 2 CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.
- 3 REFER TO PIPING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
- 4 CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
- 5 PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
- 6 ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
- 7 THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

GOVERNING CODES

- 2019 OREGON MECHANICAL SPECIALTY CODE (OMSC)
- 2019 OREGON ZERO ENERGY READY COMMERCIAL CODE (ASHRAE 90.1-2019)
- 2017 OREGON PLUMBING SPECIALTY CODE
- 2019 OREGON FIRE CODE

DEFERRED SUBMITTALS

- SEISMIC BRACING FOR PERMANENTLY INSTALLED HVAC AND MECHANICAL EQUIPMENT.
- SEISMIC BRACING FOR PERMANENTLY INSTALLED PLUMBING EQUIPMENT

ADD-02

GENERAL PLUMBING NOTES

- 1 FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
- 2 PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE.
- 3 PITCH UNDERFLOOR STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
- 4 FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
- 5 ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 3'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
- 6 WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
- 7 PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.

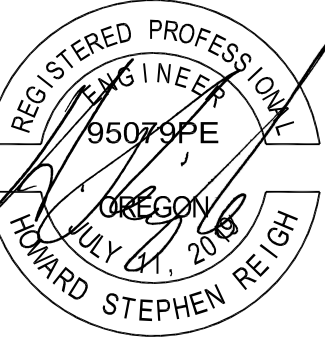
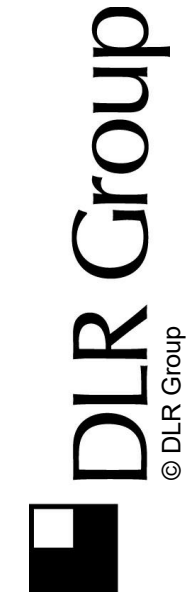
GENERAL FIRE PROTECTION NOTES

- 1 PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- 2 THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- 3 THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- 4 PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- 5 THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
- 6 REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- 7 DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- 8 ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- 9 THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- 10 AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
- 11 AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- 12 AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
- 13 SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- 14 FLOW TEST DATA FROM ### indicates the following: STATIC PRESSURE # PSI, RESIDUAL PRESSURE: # PSI AT # GPM, THE HYDRANTS TESTED ARE APPROXIMATELY ## FEET AWAY FROM THE CENTER OF THE SITE LOCATED OFF THE ##" WATER MAIN IN ## STREET AT AN ELEVATION OF ## FEET ABOVE SEA LEVEL. SEE CIVIL PLANS FOR HYDRANT LOCATION. THE CONTRACTOR SHALL PERFORM A FIRE FLOW TEST IN ACCORDANCE WITH NFPA 291 TO VERIFY THE FLOW TEST DATA GIVEN ABOVE. THE DATA GIVEN ABOVE SHALL BE THE BASIS OF DESIGN UNLESS THE AVAILABLE PRESSURE OR FLOW HAS DECREASED. NOTIFY OWNERS REPRESENTATIVE IF FLOW TEST DATA DIFFERS FROM THE DATA ABOVE. A FIRE PROTECTION ENGINEER OR AN ENGINEER EXPERIENCED IN WATER FLOW TESTING SHALL PERFORM OR WITNESS THE REQUIRED FLOW TESTING AND SIGN THE REPORT PRIOR TO THE FIRST SPRINKLER SYSTEM SUBMITTAL.
- 15 ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
- 16 THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- 17 THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

* NOTE *

ALL OF NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.



EXPIRES: 12/31/2022

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74-21102-00

MECHANICAL
GENERAL NOTES

M0.2

A

B

C

D

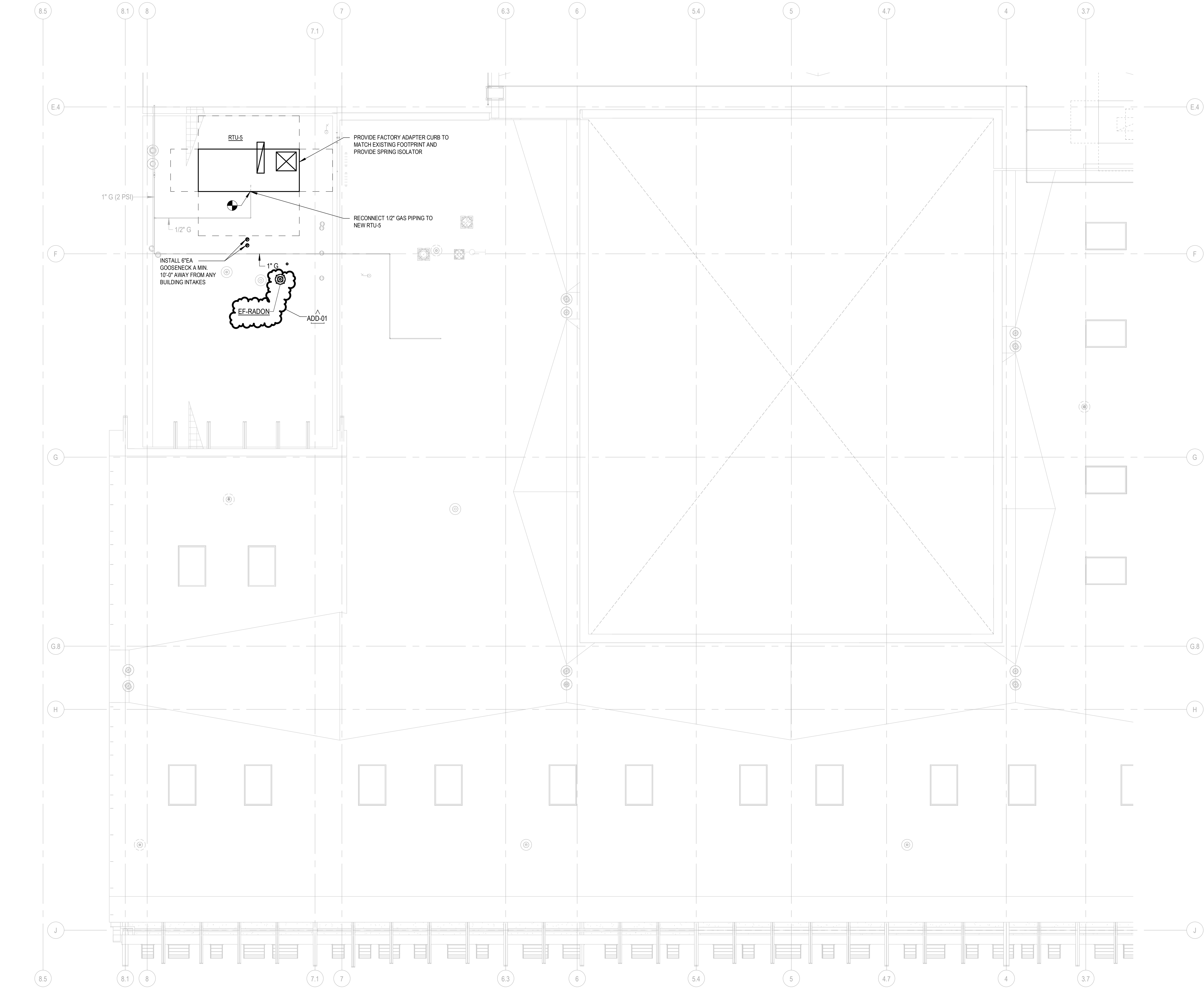
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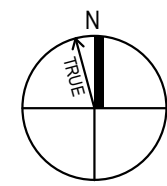
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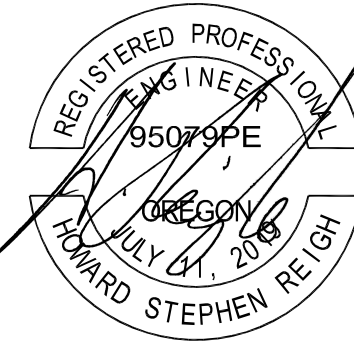
GENERAL NOTES

A FOR SYMBOLS AND ABBREVIATIONS SEE DRAWING M0.1.



ROOF MECHANICAL PLAN - AREA C

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



VOSE ES ADDITION

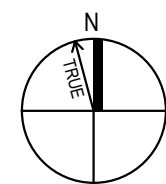
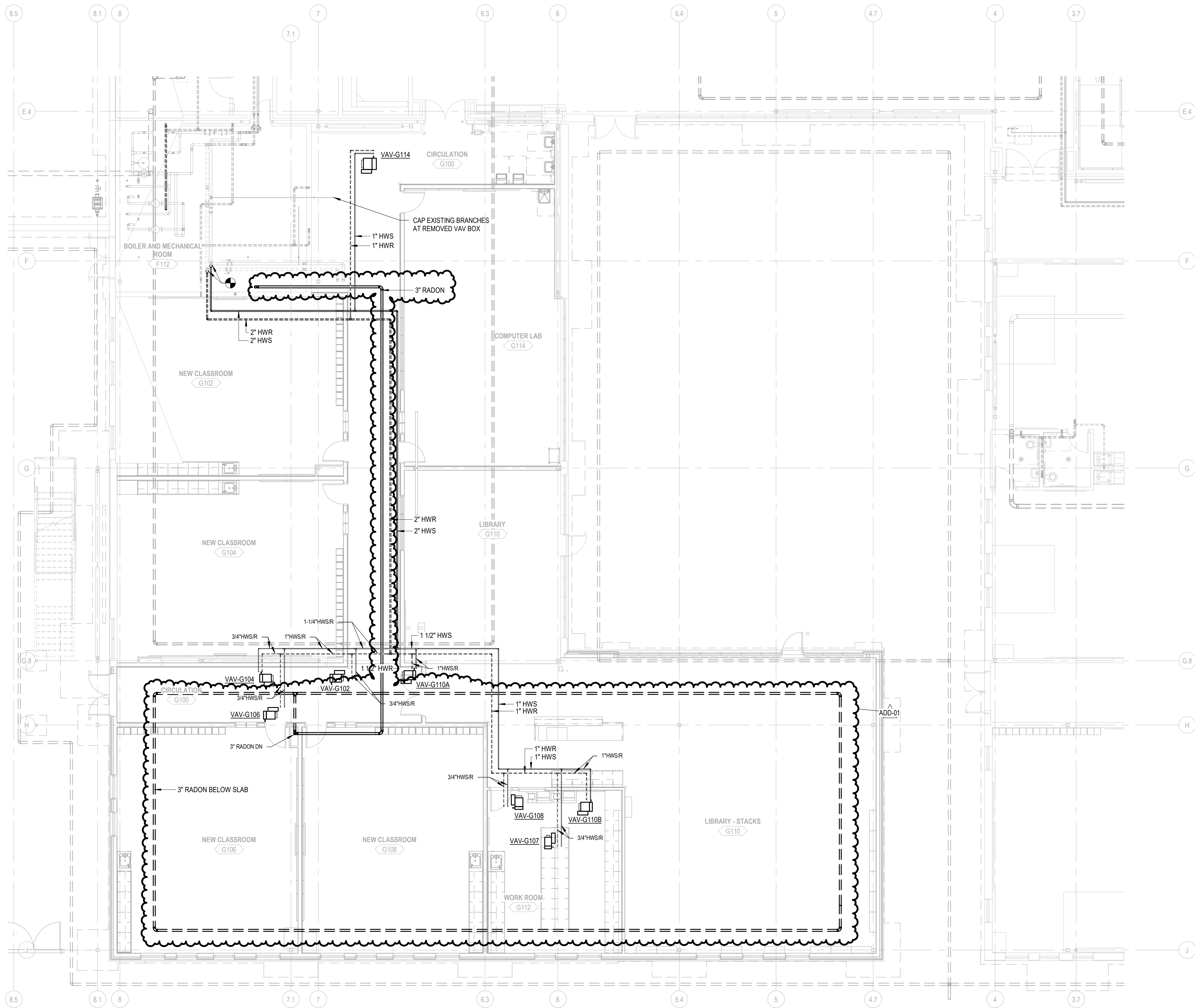
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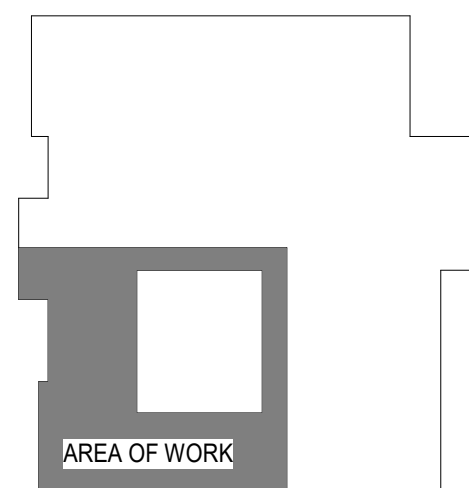
ROOF
MECHANICAL
PLAN - AREA C

M1.3



FIRST LEVEL MECHANICAL PIPING PLAN - AREA C
SCALE: 1/8" = 1'-0"

KEY PLAN



A

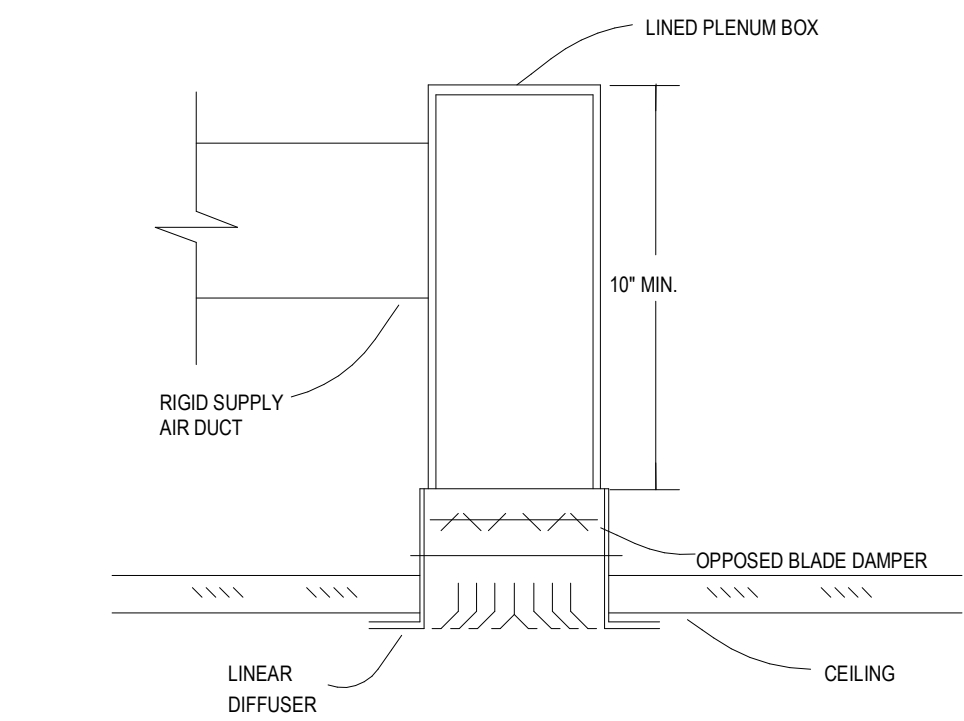
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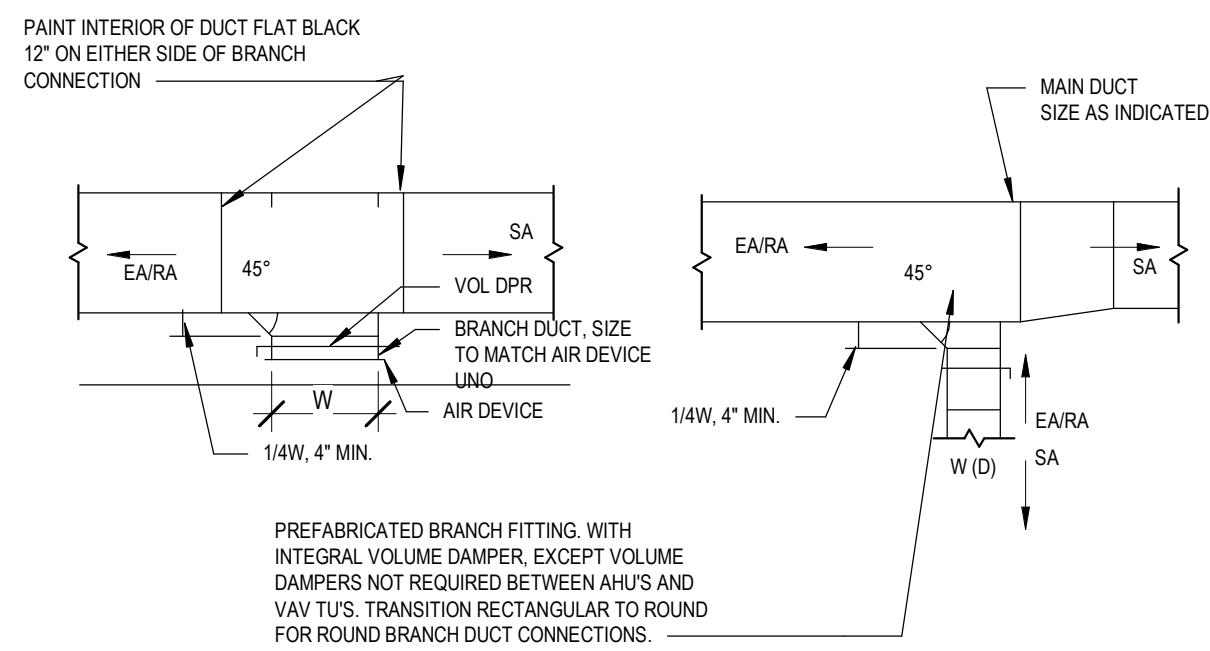
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11 LINEAR DIFFUSER DETAIL

M7.1 NO SCALE

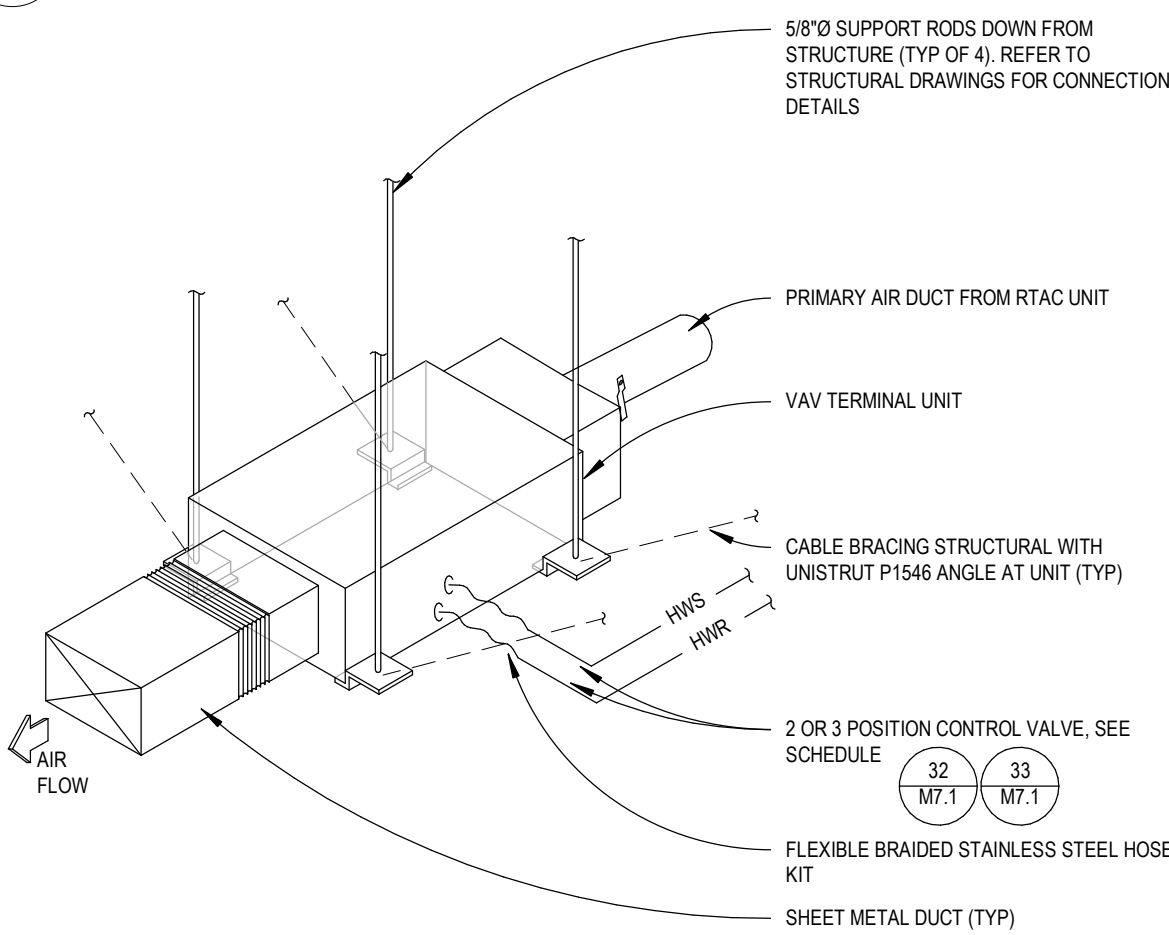
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21 DUCT TAKE-OFF DETAILS

M7.1 NO SCALE

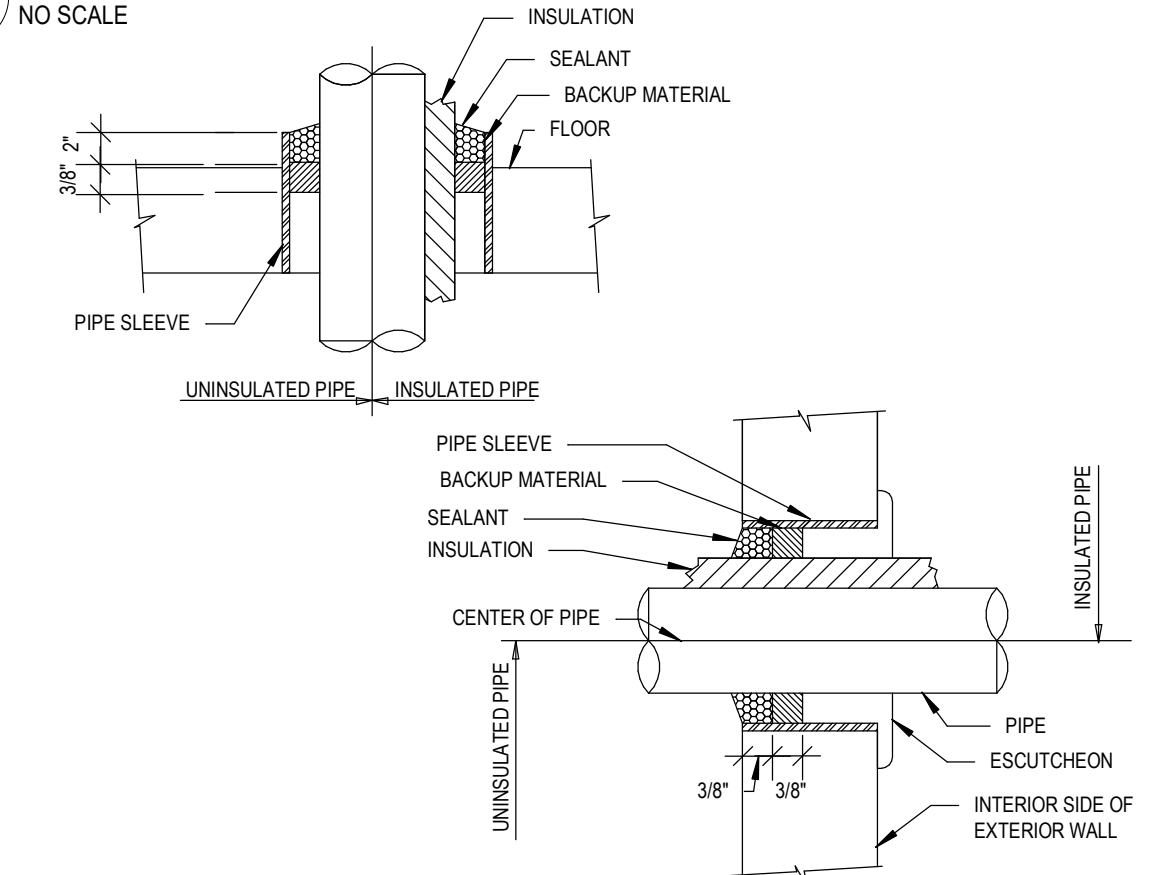
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31 VAV BOX - SEISMIC

M7.1 NO SCALE

4



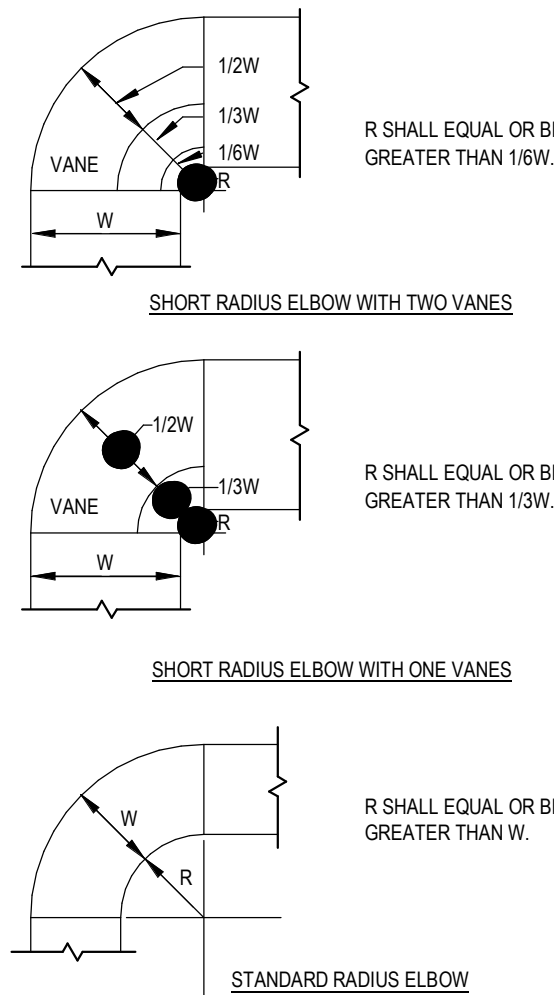
41 PIPE PENETRATIONS DETAIL

M7.1 NO SCALE

12

RESTRICTED CEILING SUPPLY DIFFUSER PLENUM HEAD CONNECTION

M7.1 NO SCALE

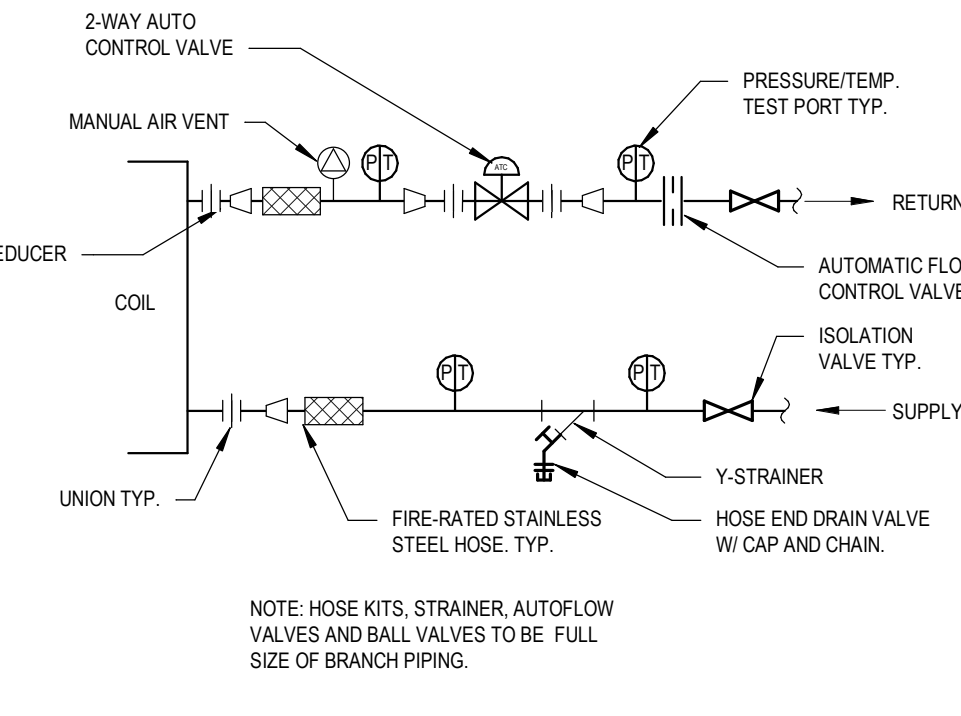


NOTES:

1. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

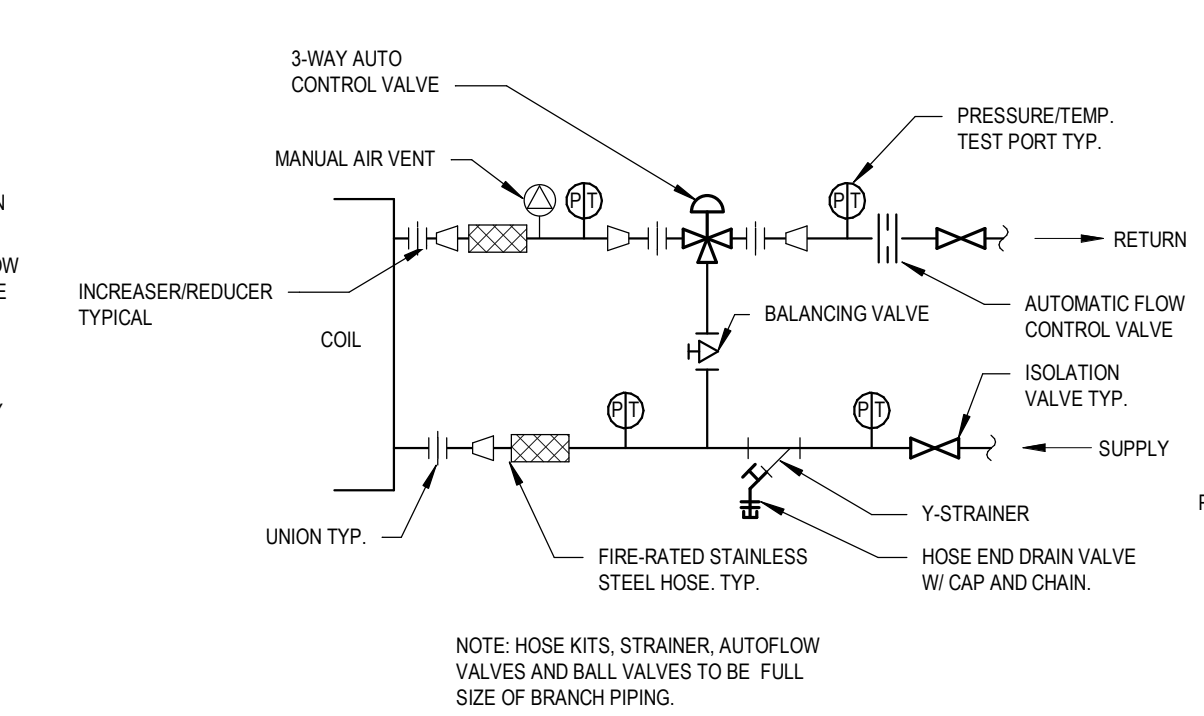
22 RADIUS ELBOW DETAILS

M7.1 NO SCALE



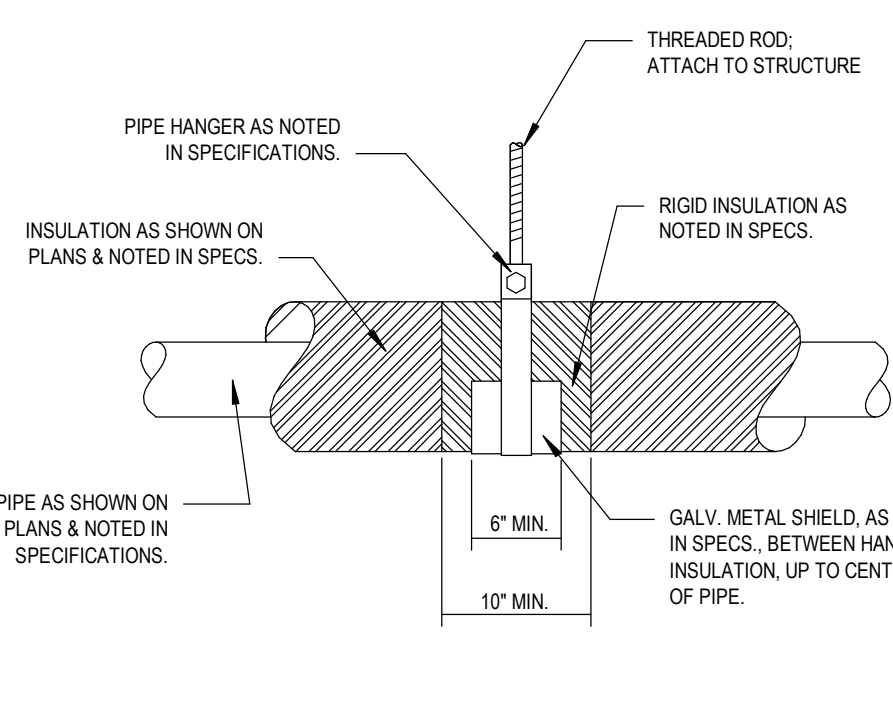
32 2-WAY COIL DETAIL

M7.1 NO SCALE



33 3-WAY COIL DETAIL

M7.1 NO SCALE



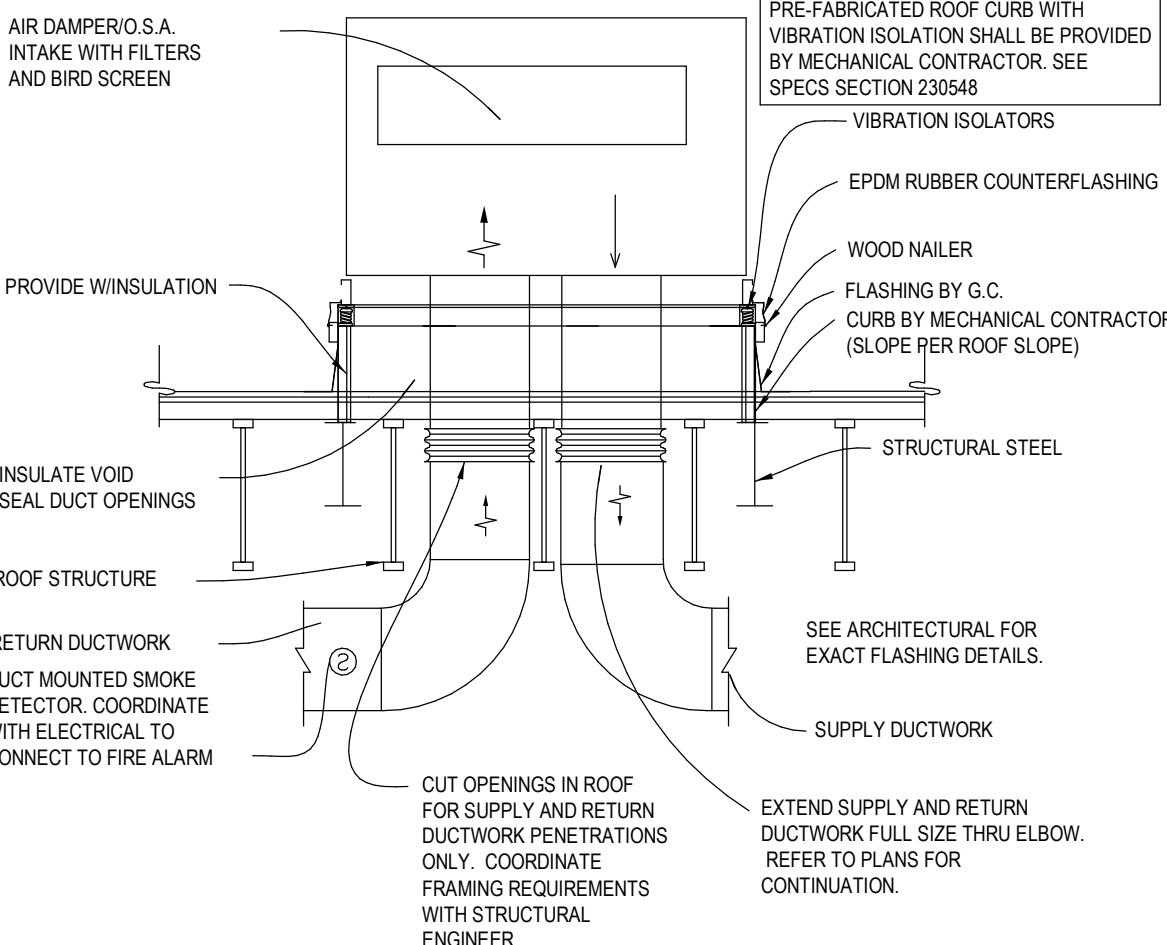
34 INSULATED PIPE HANGER DETAIL

M7.1 NO SCALE

13

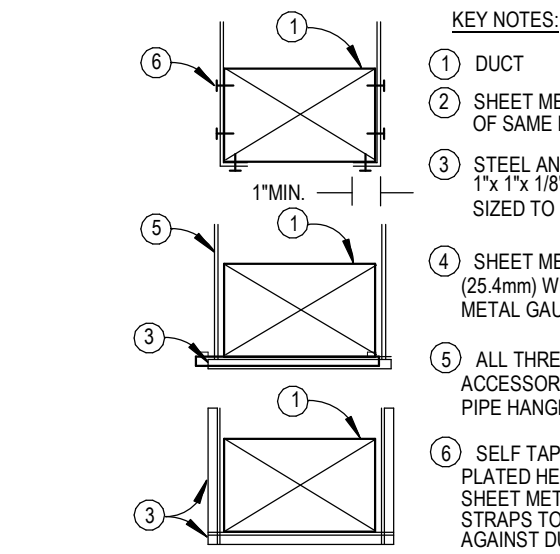
CEILING SUPPLY DIFFUSER CONNECTION DETAIL

M7.1 NO SCALE



23 PACKAGED OUTDOOR ROOF TOP UNIT

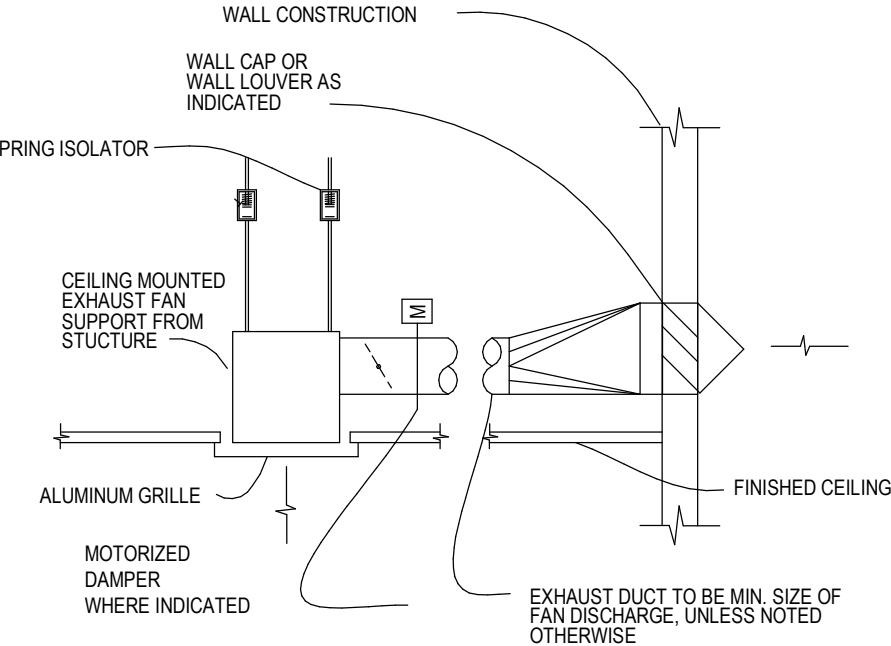
M7.1 NO SCALE



HANGER SIZES FOR RECTANGULAR DUCT			
MAX. LENGTH ANY SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1" x 1/8" GAUGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1'-12" x 1'-12" x 1'-8"	8'-0"
48"	1/4" ROUND ROD	2" x 2" x 1'-8"	8'-0"
60"	5/16" ROUND ROD	2" x 2" x 1'-8"	8'-0"
84"	3/8" ROUND ROD	2" x 2" x 1'-8"	8'-0"

14 DUCT HANGING DETAIL

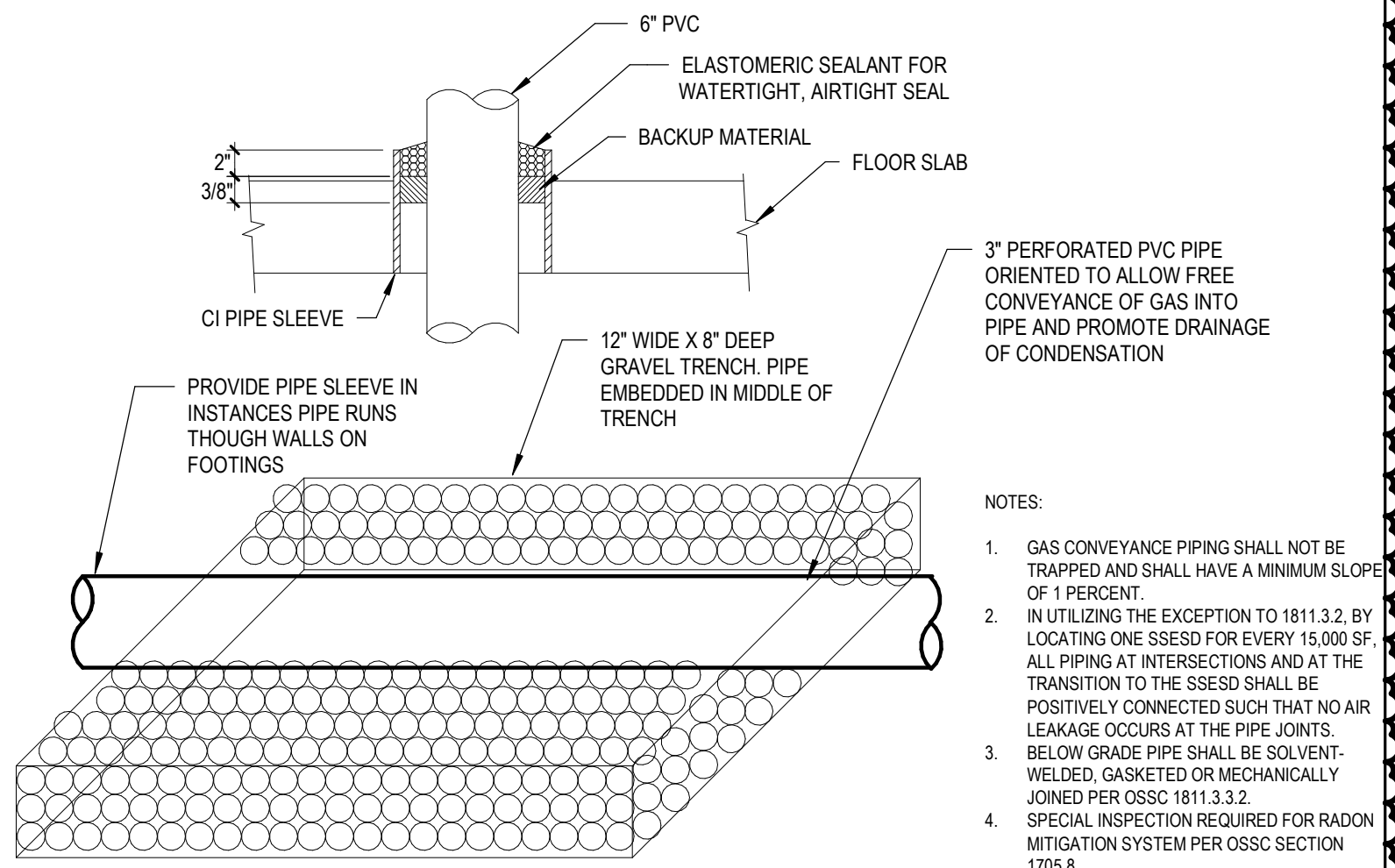
M7.1 NO SCALE



24 CEILING-MOUNTED EXHAUST FAN DETAIL

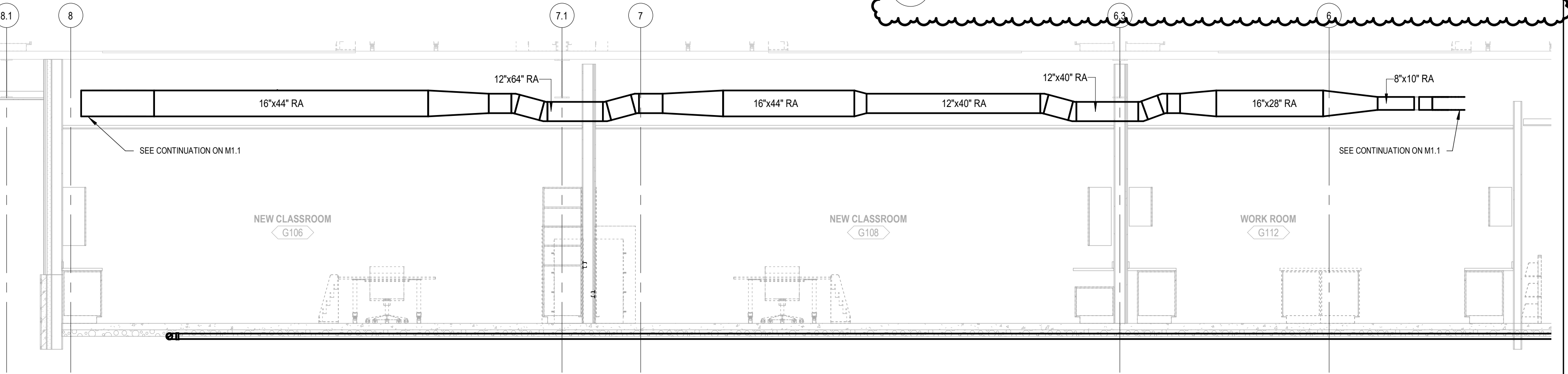
M7.1 NO SCALE

ADD-02



35 RADON PIPING DETAIL

M7.1 NO SCALE



43 RETURN DUCT ELEVATION - G106 & G108 CLASSROOM AND G107 WORKROOM

M7.1 SCALE: 1/4" = 1'-0"

42 GAS CONNECTION DETAIL

M7.1 NO SCALE

GENERAL NOTES:

- A. ALL UNITS TO BE PROVIDED WITH 100% RECIRCULATION CAPABILITIES AND 100% OA ECONOMIZER CAPABILITIES.
- B. REVIEW MANUFACTURER'S RIGGING AND LIFTING INSTRUCTIONS PRIOR TO INSTALLATION.
- C. MINIMUM COOLING EFFICIENCIES BASED ON AHR 340.360.
- D. PROVIDE MFG'S FACTORY MOUNTED CONTROLLER WITH INTERFACE TO EMCS.
- E. ALL STARTERS TO BE PROVIDED AS PART OF DIVISION 23 WORK.
- F. PROVIDE FACTORY MOUNTED DISCONNECT(S)
- G. UNITS SHALL HAVE MINIMUM 65,000 SCOR RATING.
- H. ALL AHJ'S SHALL MEET REQUIREMENTS OF 2016 ASHRAE 90.1, TABLE 6.1.
- I. PROVIDE VARIABLE FREQUENCY DRIVE FOR SUPPLY AND EXHAUST FANS.
- J. ALL BURNERS AND INDIRECT FIRED HEAT EXCHANGERS TO BE STAINLESS STEEL.
- K. ALL UNITS TO BE DOUBLE WALL CONSTRUCTION
- L. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER AND CONTROL WIRING, INCLUDING CONDUIT TO PROVIDE A FULLY FUNCTIONAL SYSTEM.
- M. REFRIGERANT IS R-410a.

NOTES:

- 1. DX COIL FACE VELOCITY SHALL BE LESS THAN 500 FPM.
- 2. HEAT RECOVERY CAPACITIES BASED ON 75/62 °F DB/W SUMMER INTERIOR AND 70° F DB WINTER.
- 3. PROVIDE VARIABLE SPEED HEAT RECOVERY WHEEL. NO BYPASS ON RECOVERY WHEEL.
- 4. MIN EER = 11
- 5. PROVIDE FACTORY ADAPTER CURB TO MATCH EXISTING FOOTPRINT AND PROVIDE SPRING ISOLATOR.

NOTES:

1. DISCONNECT SWITCH BY ELECTRICAL. STARTERS BY MECHANICAL.
2. RADON ALARM TO BE TIED TO DDC SYSTEM TO ALERT SCHOOL AND DISTRICT OF FAN FAILURE TO MAKE IMMEDIATE REPAIR.
3. CONTROL BY SECTION 230900 UNO. DAMPER INTERLOCKED WITH FAN.

NOTES:

1. FACTORY INSTALL CONTROLS FURNISHED AS PART OF SPECIFICATION 230900.
2. BOTTOM ACCESS, DOUBLE WALL CONSTRUCTION.
3. WIDTH DIMENSION INCLUDES CONTROL ENCLOSURE.
4. NO RATINGS BASED ON 1.0" WC PRESSURE DROP.
5. MINIMUM COOLING CFM BASED ON MGRS DATA FOR MODEL INDICATED AT 0.0" WC MIN TRANSDUCER DIFFERENTIAL. PRESSURE. ACTUAL MINIMUM COOLING CFM TO BE BASED ON EQUIPMENT PROVIDED.
6. HEATING COIL SHALL BE SIZED AT 30 F DELTA TEMP ON AIR SIDE AND 20 F ON WATER SIDE. SELECTION BASED ON WATER (NO PROPYLENE GLYCOL).
7. THE DUCT BRANCH TO VAV BOXES SHALL BE ONE SIZE HIGHER THAN THE BOX CONNECTION SIZE.
8. MINIMUM 2-ROW HEATING COIL.

NOTES:

1. DISCONNECT SWITCH BY ELECTRICAL. STARTERS BY MECHANICAL.
2. PROVIDE CLASS 1 MOTORIZED EXHAUST DAMPER AS PART OF 230900.
3. CONTROL BY SECTION 230900 UNO. DAMPER INTERLOCKED WITH FAN.
4. PROVIDE WITH EC MOTOR.

NOTES:

1. CONTRACTOR SHALL COORDINATE MOUNTING AND SURFACE CONSTRUCTION PRIOR TO FURNISHING MATERIAL.
2. SEE PLANS FOR LOCATION, FRAME TYPE, AND CFM
3. NECK SIZE SHALL MATCH CONNECTED DUCT SIZE. REFERENCE PLAN FOR DUCT SIZE.

Zone Name and Number	Occupancy Category	Zone Floor Area	Are you using default value for zone population?	Zone Population	Zone Air Distribution Effectiveness	Zone Outdoor Airflow	Zone Discharge Airflow	Zone Primary Airflow	Zone Secondary Recirculation Fraction	Zone Primary Air Fraction
		Az		Pz	Ez	Voz	Vdz	Vpz	Er	Ep
		(sq ft)		(people)		(cfm)	(cfm)	(cfm)		
CORRIDOR N	Corridors	572	No	0.00	0.80	42.90	139	139	0.75	1.00
CORRIDOR S	Corridors	572	No	0.00	0.80	42.90	157	157	0.75	1.00
G102 CLASSROOM	Classrooms (ages 5-8)	875	No	31.00	0.80	518.75	701	701	0.75	1.00
G104 CLASSROOM	Classrooms (ages 5-8)	873	No	31.00	0.80	518.45	701	701	0.75	1.00
G106 CLASSROOM	Classrooms (ages 5-8)	889	No	31.00	0.80	520.11	707	707	0.75	1.00
G107 WORKROOM	Computer Work Room (no printing)	476	No	2.00	0.80	38.05	219	219	0.75	1.00
G108 CLASSROOM	Classrooms (ages 5-8)	868	No	31.00	0.80	516.85	704	704	0.75	1.00
G110 LIBRARY N	Libraries	857	No	25.00	0.80	284.80	478	478	0.75	1.00
G110 LIBRARY S	Libraries	1,863	No	30.00	0.80	466.95	975	975	0.75	1.00
G114 COMPUTER LAB	Classrooms (ages 5-8)	912	No	37.00	0.80	599.30	809	809	0.75	1.00

Ventilation efficiency	Ev		0.66	Ventilation efficiency from critical zone
Outdoor air intake flow (required by OMSO Ch. 4)	Vot	(cfm)	4,421	Vou / Ev
Outdoor air intake flow provided (measured or design)		(cfm)	4,500	

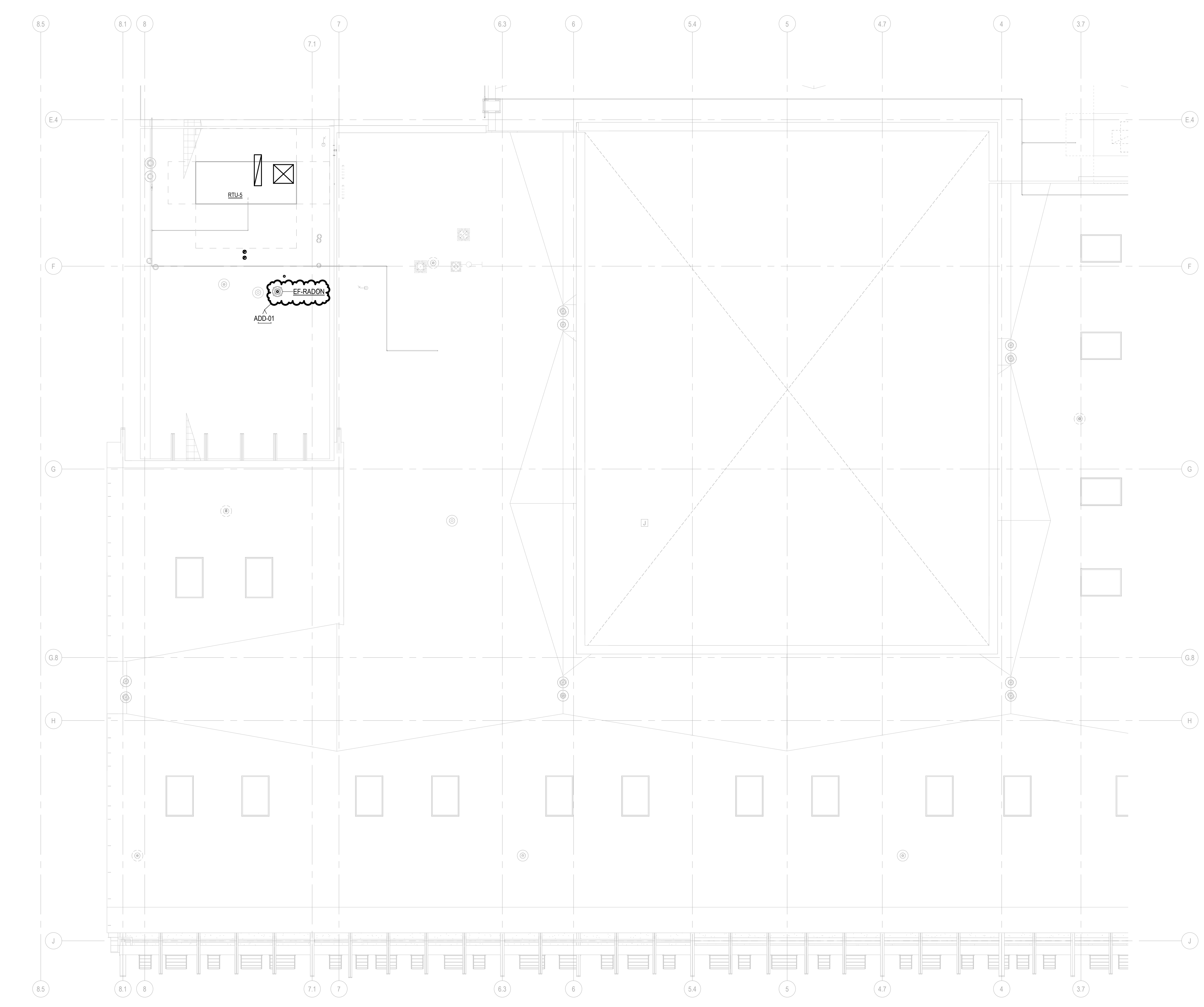
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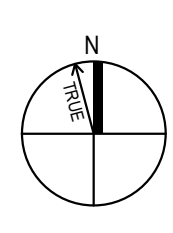
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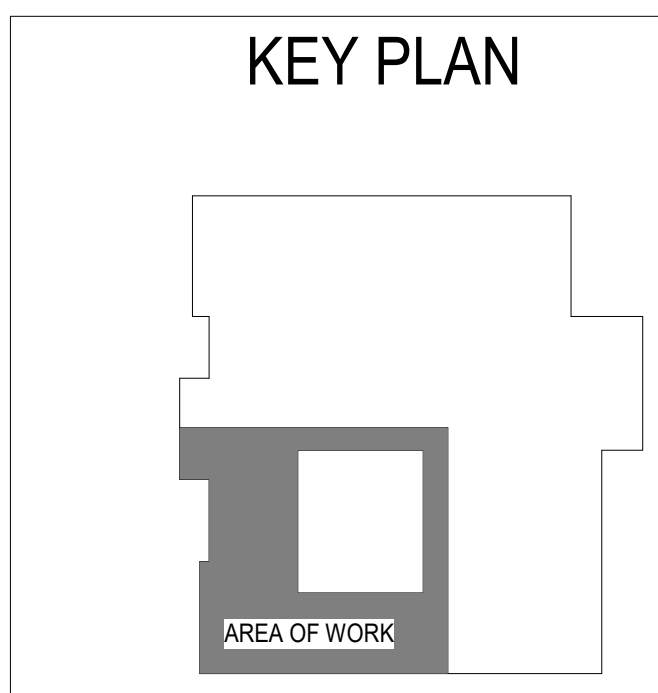
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3

4



 **ROOF POWER PLAN**
SCALE: 1/8" = 1'-0"



DLR Group
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ROOF POWER PLAN, LEVEL 1

E2.3

 NORTH

1

2

3

4

A

B

C

D

E

LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER	MODEL	LAMP	VOLTAGE	APPARENT LOAD	DESCRIPTION
CL1	LUMINI EQUAL BY: OPTIC ARTS, VOLT LIGHTING	LLFLEX18-H-30K-SL-SL-XX	3500K LED	277 V	6 VA	TAPELIGHT MOUNTED ON SURFACE OF CLOUD CEILING. PROVIDE WITH TRANSFORMER. COORDINATE EXACT LENGTH WITH CEILING INSTALLATION.UL LISTED.
DL1A	EATON PORTFOLIO	LD4A-18-D010TE-ERW4A-18-835 / 4LW1-LI-WF HB26	LED 3500K	120 V	17 VA	RECESSED 4" ROUND DOWNLIGHT. 1500 NOMINAL LUMENS. 60 DEGREE CUTOFF AND COMFORT CLEAR REFLECTOR WITH WHITE FLANGE. UL DAMP RATED.
DL2	EATON PORTFOLIO	LD6A15D010TE-ERW6A15835-6LW0LI-DT6LFO	LED 3500K	277 V	18 VA	RECESSED 6" ROUND DOWNLIGHT. 1500 NOMINAL LUMENS. ROUND ACRYLIC ACCESSORY RING WITH ALUMINUM INSERT. UL DAMP RATED.
ESL3	LIGMAN	UGI-31601-W30-277-F	LED 3500K	277 V	16 VA	EXTERIOR 8.5" X 4.5"X 3.25 LED SCONCE, 1000 NOMINAL LUMENS. UL LISTED FOR WET LOCATIONS. MATT SILVER FINISH.
PL1	CORELITE	J3-F-L-40L-835-1-D-UNV-STD-W-AC48-8	LED 3500K	277 V	52 VA	8' DIRECT/INDIRECT SUSPENDED LINEAR LED FIXTURE. 4000 NOMINAL LUMENS/4FT SECTION. NO SUBSTITUTIONS
PL1-4	CORELITE	J3-F-L-40L-835-1-D-UNV-STD-W-AC48-4	LED 3500K	277 V	26 VA	SAME AS PL1 BUT 4' IN LENGHT
PL1-6	CORELITE	J3-F-L-40L-835-1-D-UNV-STD-W-AC48-6	LED 3500K	277 V	40 VA	SAME AS PL1 EXCEPT 6' LENGTH
PL2	CORELITE	J3-F-L-40L-835-1-D-UNV-STD-W-AC48-12	LED 3500K	277 V	78 VA	SAME AS PL1 EXCEPT 12' LENGTH
RL1	METALUX	22ALNG-LD4-40-UNV-L835-CD1-U	LED 3500K	277 V	45 VA	2X2 RECESSED INDIRECT TROFFER, 3800 NOMINAL LUMEN LED, 3500K, 0-10V DIMMING DRIVER. STEEL HOUSING WITH WHITE PAINTED REFLECTOR. SINGLE PIECE EXTRUDED DIFFUSE LENS WITH FULLY LUMINOUS HOUSING. WHITE PAINTED TRIM.
RL3-4	FOCAL POINT	FSM2L-FL-625LF-35K-1C-UNV-LD1-WH-4	LED 3500K	277 V	17 VA	RECESSED FLANGED 2" SLOT FIXTURE, 4' LENGTH,2500 NOMINAL LUMENS PER 4' LENGTH. CONFIRM MOUNTING CONDITIONS.
UC1	HALO	HU1036D930P	LED 3000K	277 V	18 VA	36" UNDERCABINET 1140 LUMEN LED LIGHT WITH EXTRUDED ALUMINUM HOUSING, UV STABILIZED ACRYLIC LENS, AND POLYCARBONATE ENDCAPS.
WL1A	PRUDENTIAL	S1-LED35-LO-4-SAL-TMW-UNV-SUR-ND	LED 3500K	277 V	17 VA	WALL MOUNTED WRAPAROUND STRIP, 1920 LUMEN. SATIN ACRYLIC LENS AND TEXTURES WHITE FINISH.
X1	SURELITES	EUX7R	-		5 VA	LED CLEAR ACRYLIC EDGEKIT EXIT SIGN. PROVIDE MOUNTING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS; SINGLE-SIDED SIGNS SHALL HAVE CLEAR BACKGROUND. DOUBLE-SIDED FACES SHALL HAVE MIRRORRED BACKGROUND.
X3	SURELITES	EUX7R	-		5 VA	LED CLEAR ACRYLIC EDGEKIT EXIT SIGN. PROVIDE MOUNTING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS; SINGLE-SIDED SIGNS SHALL HAVE CLEAR BACKGROUND.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE											
EQUIPMENT SERVED	EQUIPMENT DESCRIPTION	HPI/ W	DISCONNECT	ELECTRICAL DATA	FLA	MCA	MOCP	PANEL	CIRCUIT NUMBER	FEEDER SIZE	NOTES
EF-G101	EXHAUST FAN	20.7 W	MOTOR RATED SWITCH	120 V/1-21 VA	0.0 A	0.0 A	15.0 A	2A1	57	2#12, #12G, 3/4" C	1
EF-G103	EXHAUST FAN	20.7 W	MOTOR RATED SWITCH	120 V/1-21 VA	0.0 A	0.0 A	15.0 A	2A1	57	2#12, #12G, 3/4" C	1
EF-RADON	EXHAUST FAN	114	MOTOR RATED SWITCH	120 V/1-686 VA	0.1 A	0.0 A	9.0 A	2A1	78	2#12, #12G, 3/4" C	1
RTU-5	ROOF TOP UNIT		100 A	480 V/3-49302 VA	59.3 A	66.8 A	90.0 A	4B1	2,4,6	3#4, #8G, 1" C	2,3,4

GENERAL MECHANICAL EQUIPMENT CONNECTION NOTES:

- A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY DIFFER. COORDINATE WITH MECHANICAL SUBMITTALS FOR ACTUAL LOADS, CIRCUIT AMPACITY, AND OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO MAKING ELECTRICAL CONNECTIONS.
- B. LOCATE ALL DISCONNECTING MEANS PER NEC AND AHJ REQUIREMENTS. STARTERS ARE SEPARATELY MOUNTED UNLESS OTHERWISE NOTED.
- C. ALL DISCONNECTS ARE 3 POLE UNLESS OTHERWISE NOTED.

MECHANICAL EQUIPMENT SCHEDULE NOTES:

1. POWER TO MOTORIZED DAMPER THROUGH UNIT.
2. VFD PROVIDED BY DIVISION 23 AND CONNECTED BY DIVISION 26.
3. FURNISH DUCT SMOKE DETECTOR FOR INSTALLATION BY DIVISION 23 CONTRACTOR. HVAC UNITS OVER 2000CFM TO HAVE DUCT DETECTOR IN THE RETURN AIR DUCT. COORDINATE WITH DIVISION 23 FOR QUANTITY REQUIRED. PROVIDE CONNECTION AT HVAC UNIT FOR SHUTDOWN ON ALARM AND CONNECTION TO THE FIRE ALARM CONTROL PANEL FOR DETECTOR CONNECTION AS REQUIRED. ALL WIRING TO BE IN EMT CONDUIT.
4. DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED BY RTU MANUFACTURER AND INSTALLED BY DIVISION 26.

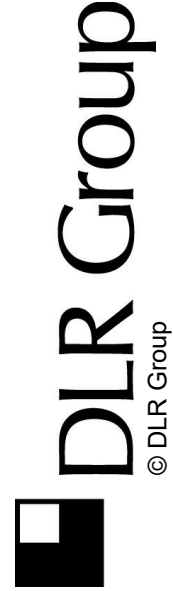
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ELECTRICAL
SCHEDULES

E7.1



1

PANEL: 4A1 (EXISTING)														
LOCATION: MAIN ELECTRICAL ROOM F106						VOLTS: 480Y/277				MOUNTING: SURFACE				
BUS RATING: 200.0 A						PHASES: 3				FED FROM:				
MAIN BREAKER: 200 A						WIRES: 4				INTEGRAL SPD: Type 1				
						SCCR: 25,000				LUG ACCESSORIES: SEE ONE-LINE				
CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	COMPUTER LAB G114 LTG	20	1		L	520	2,373			--	1	20	(EXISTING) SITE LIGHTING	2
3	(EXISTING) BOILER & MECH ROOM F112	20	1	--			785	2,160		--	1	20	(EXISTING) COVERED PLAY	4
5	WORKROOM G107 LTG	20	1		L			551	1,600	--	1	20	(EXISTING) L	6
7	(EXISTING) KITCHEN F101	20	1	--		748	410			--	1	20	(EXISTING) CHAIR CART STORAGE C113	8
9	SPARE	20	1	--			0	1,233		--	1	20	SPARE	10
11	LIBRARY G110 LTG	20	1		Lightin...			1,779	0	--	--	--	SPACE	12
13	(EXISTING) EXTERIOR CANOPY	20	1	--		670	17			--	1	20	(EXISTING) CIRCULATION-1 C250-1	14
15	CLASSROOM G108 LTG	20	1		L		468			--	1	20	SPARE	16
17	CLASSROOM G106 LTG	20	1		L			468	0	--	1	20	SPARE	18
19	CLASSROOM G104 LTG	20	1		L	468	0			--	1	20	SPARE	20
21	CLASSROOM G102 LTG	20	1		L		468	0		--	1	20	SPARE	22
23	CORRIDOR LTG	20	1		L			174	0	--	1	20	SPARE	24
25	SPACE ONLY	--	--	--	--	0	0			--	--	--	SPACE ONLY	26
27	SPACE ONLY	--	--	--	--		0	0		--	--	--	SPACE ONLY	28
29	SPACE ONLY	--	--	--	--			0	0	--	--	--	SPACE ONLY	30
31	SPACE ONLY	--	--	--	--	0	0			--	--	--	SPACE ONLY	32
33	SPACE ONLY	--	--	--	--		0	0		--	--	--	SPACE ONLY	34
35	SPACE ONLY	--	--	--	--			0	0	--	--	--	SPACE ONLY	36
37						5,497	6,543			--	--	--		38
39	4A2	100	3		--		5,798	5,626		--	3	100	4A3	40
41								5,704	6,164					42
TOTAL LOAD:						17246 VA	16538 VA	16392 VA						
TOTAL AMPS:						62.3 A	59.8 A	59.2 A						
LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES				BKR TYPE		PANEL TOTALS			
L	LIGHTING	3684 VA	125.00%	4606 VA	CONTINUOUS LOAD @ 125%				G = GFCI (5mA)					
R	RECEPTACLES	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%				GP = GFP (30mA)		CONNECTED LOAD: 50 kVA			
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220				ST = SHUNT TRIP		ESTIMATED DEMAND: 51 kVA			
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430				LO = LOCK OUT		CONNECTED CURRENT: 60.3 A			
M	MOTOR	0 VA	0.00%	0 VA							EMD CURRENT: 61.5 A			
C	COOLING	0 VA	0.00%	0 VA										
H	HEATING	0 VA	0.00%	0 VA										
O	OTHER	0 VA	0.00%	0 VA										
Spare	SPARE	45328 VA	100.00%	45328 VA										
NOTES:														

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PANEL: 2A1 (EXISTING)														
LOCATION: MAIN ELECTRICAL ROOM F106						VOLTS: 208Y/120				MOUNTING: SURFACE				
BUS RATING: 200.0 A						PHASES: 3				FED FROM:				
MAIN BREAKER: 200 A						WIRES: 4				INTEGRAL SPD: Type 1				
						SCCR: 22,000				LUG ACCESSORIES: SEE ONE-LINE DIAGRAM				
CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	LIBRARY G110 PROJECTOR	20	1		R	500	500		R		1	20	COMPUTER LAB G114 PROJECTOR	2
3	LIBRARY G110 RECEPTACLES	20	1		R		1,080	360		R	1	20	COMPUTER LAB G114	4
5	LIBRARY G110 RECEPTACLES	20	1		R			540	360	R	1	20	COMPUTER LAB G114	6
7	LIBRARY G110 PRINTER	20	1		R	1,180	360		R	1	20	COMPUTER LAB G114	8	
9	LIBRARY G110 FRONT DESK	20	1		R		540	360		R	1	20	COMPUTER LAB G114	10
11	LIBRARY G110 RECEPTACLES	20	1		R			360	720	R	1	20	COMPUTER LAB G114	12
13	WORKROOM G112 RECEPTACLES	20	1		R	360	720			R	1	20	COMPUTER LAB G114	14
15	(EXISTING) BOILER & MECHANICAL RM F112	20	1		R		720	1,000		R	1	20	CLASSROOM G106 PROJECTOR	16
17	WORKROOM G112 PRINTER	20	1		R			1,000	720	R	1	20	CLASSROOM G106 RECEPTACLES	18
19	WORKROOM G112 PRINTER	20	1		R	1,000	720			R	1	20	CLASSROOM G106 RECEPTACLES	20
21	LIBRARY G110 RECEPTACLES	20	1		R		540	720		R	1	20	CLASSROOM G108 RECEPTACLES	22
23	WORKROOM G112 AC RECEPTACLES	20	1		R			540	720	R	1	20	CLASSROOM G108 RECEPTACLES	24
25	WORKROOM G112 AC RECEPTACLES	20	1		R	1,720	500			R	1	20	CLASSROOM G108 CHARGING CAB	26
27	(EXISTING) EF-24	20	1	--			156	540			1	20	(EXISTING) IT SPECIALIST C118	28
29	(EXISTING) CAFETERIA COMMONS C103	20	1	--				540	900	--	1	20	(EXISTING) FLEX CONF ROOM B111	30
31	(EXISTING) CUSTODIAL STORAAAGE F104	20	1	--		900	720			R	1	20	COMPUTER LAB G114	32
33	(EXISTING) F104, F102	20	1	--			742	180		--	1	20	(EXISTING) FLEX CONF ROOM B111	34
35	(EXISTING) CIRCULATION F100	20	1	--				900	540	--	1	20	(EXISTING) IT SPECIALIST C118	36
37	(EXISTING) SPEECH OFFICE B110	20	1	--		1,080	360			R	1	20	COMPUTER LAB G114 RECEPTACLES	38
39	(EXISTING) SPEECH OFFICE B110	20	1	--			1,080	500		R	1	20	COMPUTER LAB G114 CHARGING CAB	40
41	(EXISTING) TOILET F103	20	1	--				392	180	O	1	20	CORRIDOR ADA DOOR OPERATOR	42
43	(EXISTING) R STAGE C107	20	1	--		360	1,200			--	1	20	(EXISTING) GYM PROJECTOR	44
45	(EXISTING) F105, F101	20	1	--			360	180		--	1	20	(EXISTING) HVAC CONTROLS	46
47	(EXISTING) ROOF TOP UNIT RTU-8	20	1	--				180	2,456	--	1	20	(EXISTING) COMMONS PROJECTOR	48
49	(EXISTING) ROOF TOP UNIT-5.9	20	1	--		360	1,200			--	1	20	(EXISTING) STGE C107	50
51	(EXISTING) STORAGE C105A	20	1	--			180	360		--	1	20	(EXISTING) STAGE C107	52
53	HAND DRYERS CIRC G100	20	1		M			600	720	--	1	20	(EXISTING) PE INSTRUCTOR OFFICE C111	54
55	(EXISTING) STAGE STORAFE C107A	20	1	--		1,260	96			--	1	20	(EXISTING) MONUMENT SIGN	56
57	RESTROOM G101	20	1		L, R, M			466	540	--	1	20	(EXISTING) SERVICE ENCLOSURE X003	58
59	(EXISTING) STORAGE C106	20	1	--				0	180	--	1	20	(EXISTING) MAIN ENTRY WET LOCATION...	60
61	(EXISTING) STAGE C107	20	1	--		360	300			--	1	20	(EXISTING) DOOR LOCKS	62
63	(EXISTING) STAGE C107	20	1	--			360	500		--	1	20	(EXISTING) IRRIGATION CONTROL	64
65	HAND DRYER GIRLS	20	1	--				500	500	--	1	20	(EXISTING) SUMP PUMP	66
67	HAND DRYER BOYS	20	1	--		500	500			--	1	20	(EXISTING) SUMP PUMP	68
69	CLASSROOM G102 PROJECTOR	20	1		R		500	500		--	1	20	(EXISTING) SUMP PUMP	70
71	CLASSROOM G102 CHARGING CAB	20	1		R			500	720	R	1	20	CORRIDOR RECEPTACLES	72
73	CLASSROOM G102 RECEPTACLES	20	1		R	720	360			R	1	20	CORRIDOR DF-1	74
75	CLASSROOM G102 RECEPTACLES	20	1		R		720	540		R	1	20	LIBRARY G110 RECEPTACLES	76
77	CLASSROOM G104 PROJECTOR	20	1		R			500	636	M	1	20	EF-RADON	78
79	CLASSROOM G104 CHARGING CAB	20	1		R	500	0			--	1	20	SPARE	80
81	CLASSROOM G104 RECEPTACLES	20	1		R		720	0		--	1	20	SPARE	82
83	CLASSROOM G104 RECEPTACLES	20	1		R			720	0	--	1	20	SPARE	84
TOTAL LOAD:						18336 VA	14444 VA	16505 VA						
TOTAL AMPS:						155.4 A	120.4 A	140.2 A						
LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES				BKR TYPE		PANEL TOTALS			
L	LIGHTING	68 VA	125.00%	85 VA	CONTINUOUS LOAD @ 125%				G = GFCI (5mA)					
R	RECEPTACLES	26280 VA	69.03%	18140 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%				GP = GFP (30mA)		CONNECTED LOAD: 49 kVA			
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220				ST = SHUNT TRIP		ESTIMATED DEMAND: 41 kVA			
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430				LO = LOCK OUT		CONNECTED CURRENT: 136.8 A			
M	MOTOR	1337 VA	113.01%	1511 VA							EMD CURRENT: 114.7 A			
C	COOLING	0 VA	0.00%	0 VA										
H	HEATING	0 VA	0.00%	0 VA										
O	OTHER	180 VA	100.00%	180 VA										
Spare	SPARE	21602 VA	100.00%	21602 VA										
NOTES:														