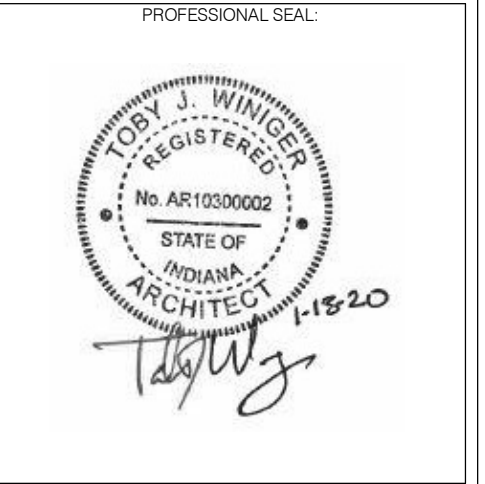


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PROJECT NUMBER:
180024.05

REVISION	DESCRIPTION	DRAWN BY	DATE ISSUED
3	Addendum 3		3/2/2020

DATE ISSUED	DRAWN BY	CHECKED BY
JANUARY 13, 2020	PS	BF

DRAWING TITLE:
ARCHITECTURAL SYMBOLS & ABBREVIATIONS, CODE SUMMARY

SHEET NUMBER:
A001

ABBREVIATIONS:

ABD AC A/E AFF AHU ALT ALUM ASPH	ABANDONED AIR CONDITIONING ASPHALT EMULSION ABOVE FINISH FLOOR AIR HANDLING UNIT ALTERNATE ALUMINUM ASPHALT	GA GALV GB GC GL GR GRV GWB GYP	GUAGE GALVANIZED GLASS BLOCK GENERAL CONTRACTOR GLASS GRADE GRAVITY ROOF VENT GYPSUM WALL BOARD GYPSUM	QTY RC RD RE REIN REQ'D RFG RS RV REV	QUANTITY ROOF CORE ROOF DRAIN REFER TO REINFORCING REQUIRED ROOFING ROOF SUMP RELIEF VENT REVISION
BOT BD BFLG BIT BJT BLDG BLK BRG BS BUR BRK	BOTTOM BOARD BASE FLASHING BITUMINOUS BED JOINT BUILDING BLOCK BEARING BOTH SIDES BUILT UP ROOFING BRICK	HGT HDWD HDWR HM HORZ HVAC	HEIGHT HARDWOOD HARDWARE HOLLOW METAL HORIZONTAL HEATING, VENTILATING, AIR CONDITIONING	SATT SC SD SECT SHT SIM SPECS SS STD STL	SATELLITE DISH SCUPPER STORM DRAIN SECTION SHEET SIMILAR SPECIFICATIONS STAINLESS STEEL STANDARD STEEL
C/C CJ CLG CLR CMU CNTR CO COL COORD CONC CONT CONTR	CENTER TO CENTER CONTROL JOINT CEILING CLEAR CONCRETE MASONRY UNIT COUNTER FLASHING CLEAN OUT COLUMN COORDINATE CONCRETE CONTINUOUS or CONTINUED CONTRACTOR	JT LAM LBS LFT LVR LWC	JOINT LAMINATED POUNDS LINEAR FOOT LOUVER LIGHT WEIGHT CONCRETE	T&G TEMP TERM THK TOM TOS TO TYP	TONGUE & GROOVE TEMPERATURE TERMINATION THICK or THICKNESS TOP OF MASONRY TOP OF STEEL TOP OF TYPICAL
DBL DEG DEMO DEPT DIA DIM DL DN DR DS DTL DWG	DOUBLE DEGREE DEMOLITION DEPARTMENT DIAMETER DIMENSION DEAD LOAD DOWN DOOR DOWN SPOUT DETAIL DRAWING	MAS MATL MAX MBR MECH MFR MH MIN MISC MO MRD MTD MTG MTL	MASONRY MATERIAL MAXIMUM MODIFIED BITUMEN ROOFING MECHANICAL MANUFACTURER MAN HOLE MINIMUM MISCELLANEOUS MASONRY OPENING METAL ROOF DECK MOUNTED MOUNTING METAL	UNO UNF UTIL	UNLESS NOTED OTHERWISE UNFINISHED UTILITY
EF EPDM EIFS EJ ELEC ELEV ENG EP ETC EST EXG EXP EXT	EXHAUST FAN ETHYLENE PROPYLENE DIENE MONOMER EXTERIOR INSULATION FINISH SYSTEM EXPANSION JOINT ELECTRICAL ELEVATION or ELEVATOR ENGINEER ELECTRICAL PANEL ETCETERA ESTIMATE EXISTING EXPOSED EXTERIOR	N NA NIC NO NOIM NTS	NORTH NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE	VB VCT VR VERT	VINYL BASE VINYL COMPOSITION TILE VAPOR RETARDER VERTICAL VERIFY IN FIELD
FB FD FIN FLG FSR FLR FP FT	FACE BRICK FLOOR DRAIN FINISHED FLASHING FLEXIBLE SHEET ROOFING FLOOR FALL PROTECTION FOOT or FEET	OA OC OH OPNG PT PCC PERP PL PLAS PLBG PWD PWFAB PROJ PSI PP PS PV PVC	OVERALL ON CENTER OVERHEAD OPENING PAINT PRE-CAST CONCRETE PERPENDICULAR PLATE PLASTIC PLUMBING PLYWOOD PREFABRICATED PROJECT POUNDS PER SQUARE INCH PIPE PENETRATION PIPE SEAL PLUMBING VENT POLY VINYL CHLORIDE		

MATERIAL INDICATIONS

	EARTH
	GRANULAR FILL
	CONCRETE
	SAND
	STEEL/METAL
	BRICK
	WOOD
	ROUGH CUT WOOD
	PLYWOOD
	CONCRETE BLOCK
	BATT INSULATION
	RIGID INSULATION

ARCHITECTURAL SYMBOLS

	DRAWING/DETAIL REFERENCE	TITLE SCALE REFERENCING VIEW
	ROOM NAME/NUMBER	ROOM NAME ROOM NUMBER
	DOOR NUMBER	DOOR NUMBER
	DETAIL KEYNOTE TAG	DETAIL KEY NOTE NUMBER
	ROOF PLAN KEYNOTE TAG	ROOF PLAN KEY NOTE NUMBER
	DEMOLITION NOTE TAG	DEMOLITION NOTE NUMBER
	WINDOW TYPE	WINDOW NUMBER
	WALL TYPE	WALL TYPE POSITION OVER WALL
	DETAIL REFERENCE	DETAIL NUMBER SHEET NUMBER
	SECTION REFERENCE	SECTION NUMBER SHEET NUMBER
	GRID REFERENCE	GRID REFERENCE
	EXTERIOR ELEVATION REFERENCE	ELEVATION NUMBER SHEET NUMBER
	INTERIOR ELEVATION REFERENCE	ELEVATION NUMBER SHEET NUMBER
	VERTICAL ELEVATION TARGET	ELEMENT REFERENCE HEIGHT ABOVE FINISH FLOOR
	NORTH ARROW	POINTS IN DIRECTION OF TRUE NORTH POINTS IN DIRECTION OF PLAN NORTH
	REVISION REFERENCE	REVISION NUMBER INDICATES AREA OF REVISION
	SHADING	INDICATES AREA OF EXISTING CONSTRUCTION
	OCCUPANCY LOAD	OCCUPANCY

CODE SUMMARY:

- CODES: 2012 INTERNATIONAL BUILDING CODE W/ 2014 INDIANA AMENDMENTS
- 2010 INDIANA ENERGY CONSERVATION CODE (ASHRAE 90.1-2007)
- 2006 INTERNATIONAL PLUMBING CODE W/ 2012 INDIANA AMENDMENTS
- 2008 NATIONAL ELECTRIC CODE W/ 2009 INDIANA AMENDMENTS
- 2012 INTERNATIONAL MECHANICAL CODE W/ 2014 INDIANA AMENDMENTS
- 2012 INTERNATIONAL FIRE CODE W/ 2014 INDIANA AMENDMENTS

PROJECT LOCATION:
1100 West 21st Street
Indianapolis, IN 46202

PROJECT SCOPE:
THE PROPOSED NEW FACILITY WILL HOUSE OFFICES, TRAINING ROOMS, AND BUS TRAINING BAY FOR THE INDIANAPOLIS PUBLIC TRANSPORTATION CORPORATION.

OCCUPANCY CLASSIFICATION:
BUSINESS GROUP B - OFFICES AND TRAINING (SECTION 304.1)
BUSINESS GROUP S1 - BUS TRAINING BAY (GARAGE) (SECTION 311.2)

CONSTRUCTION TYPE:
TYPE V-B (SECTION 602.5)

ALLOWABLE AREA (PER STORY):
TABULAR AREA: 9,000 SF (SECTION 506.1)
FRONTAGE INCREASE: 6,750 SF (SECTION 502.6)
SPRINKLER INCREASE: 27,000 SF (SECTION 506.3)
TOTAL ALLOWABLE: 42,750 SF

TOTAL BUILDING SF: **9,404 SF**

ALLOWABLE HEIGHT AND STORIES:
TWO-STORIES PERMITTED FOR BUILDINGS OF GROUP B OCCUPANCY AND TYPE V-B CONSTRUCTION. FACILITY IS ONLY ONE-STORY.

BUILDING ELEMENTS, FIRE RESISTIVE REQUIREMENTS (SECTION 602.3)	
STRUCTURAL FRAME	0 HRS (TABLE 601 & 602)
BEARING WALLS	
EXTERIOR	0 HRS
INTERIOR	0 HRS
NONBEARING WALLS / PARTITIONS EXTERIOR	0 HRS
NONBEARING WALLS / PARTITIONS INTERIOR	0 HRS
FLOOR CONSTRUCTION	0 HRS
ROOF CONSTRUCTION	0 HRS

FIRE WALLS:
A FIRE WALL IS NOT REQUIRED SINCE THE ACTUAL AREA IS LESS THAN THE ALLOWABLE AREA.

FIRE BARRIERS:
NONE REQUIRED.

FIRE PARTITIONS:
NONE REQUIRED.

CORRIDORS:
CORRIDORS ARE NOT REQUIRED TO BE OF ONE-HOUR RATED CONSTRUCTION SINCE THE BUILDING IS PROVIDED WITH AN AUTOMATIC FIRE PROTECTION SYSTEM.

AUTOMATIC SPRINKLER REQUIREMENTS:
THE BUILDING DOES NOT REQUIRE AUTOMATIC SPRINKLER PROTECTION, BUT, BUILDING IS FULLY SPRINKLED.

PLUMBING FACILITY REQUIREMENTS

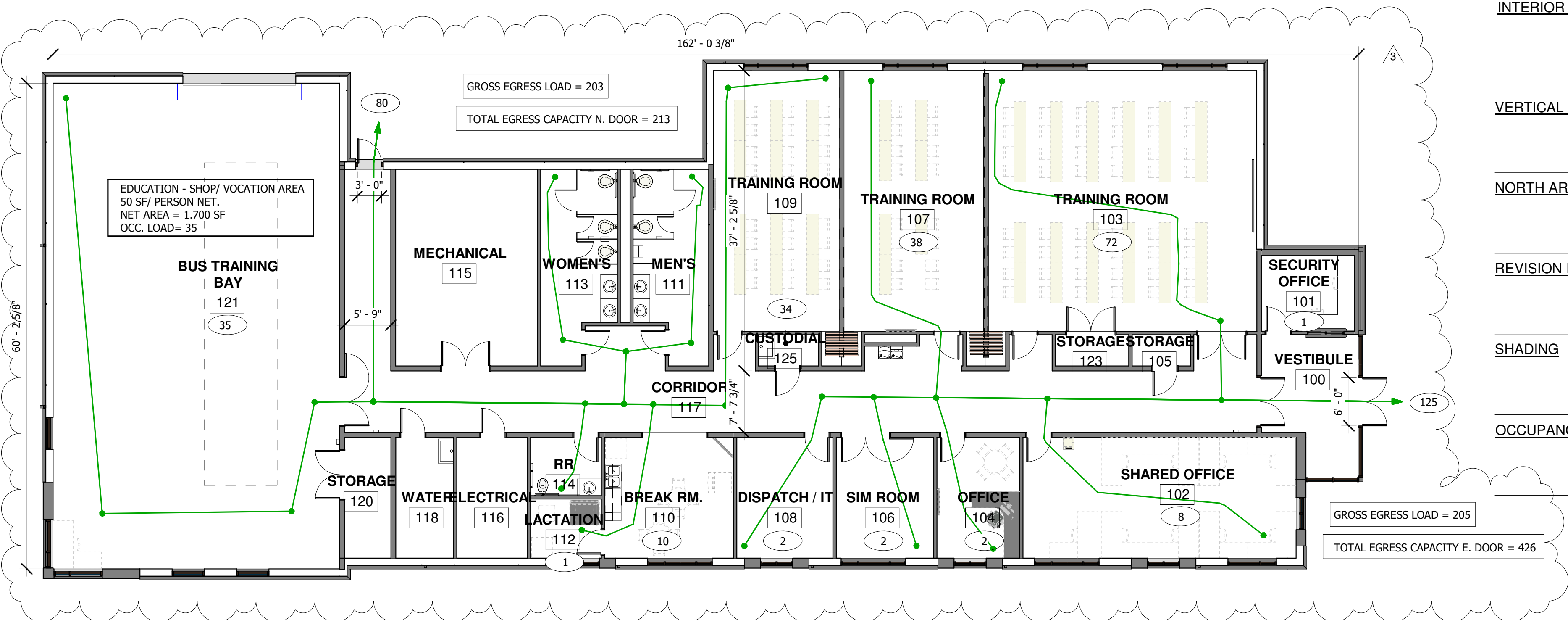
ANTICIPATED OCCUPANT LOAD FOR PLUMBING FACILITIES IS BASED UPON THE ANTICIPATED FURNITURE LAYOUT SHOWN IN THE OFFICES AND TRAINING ROOMS.

OCCUPANT LOAD	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAIN	
	REQUIRED	ACTUAL	REQUIRED	ACTUAL	REQUIRED	ACTUAL
MALE (80)	3	3	2	2	2	2
FEMALE(80)	3	4*	2	3*		

*INCLUDES SINGLE, ACCESSIBLE RR.

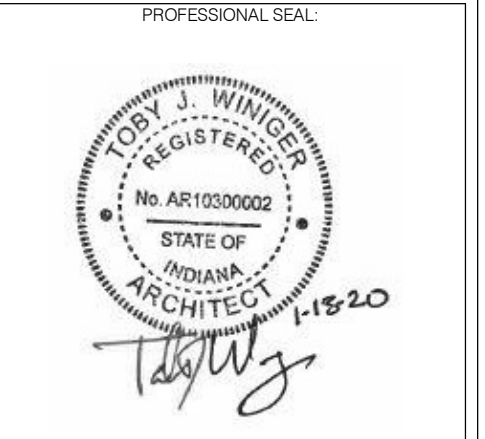
ENERGY CODE REQUIREMENTS

REFER TO ATTACHED COMCHECK REPORT



1
A001 Life Safety Plan
1" = 10'-0" REF:3 A400

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PROJECT NUMBER:
180024.05

NO.	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Addendum 1	PS	3/2/2020
2	Addendum 2	BF	2/21/2020

DATE ISSUED	DRAWN BY	CHECKED BY
JANUARY 13, 2020	PS	BF

DRAWING TITLE:
FLOOR PLAN & REFLECTED CEILING PLAN

SHEET NUMBER:
A100

GENERAL CEILING PLAN NOTES

- ALL GRIDS ARE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.
- COORDINATION OF DUCTWORK, PIPING, LIGHTS, AND CEILING SUPPORTS ARE THE RESPONSIBILITY OF ALL TRADE CONTRACTORS. CONTRACTORS WILL TAKE RESPONSIBILITY TO RELOCATE ITEMS TO CONFLICT DUE TO LACK OF COORDINATION.
- ALL SPINKLER HEADS TO BE CENTERED IN CEILING TILE UNLESS NOTED OTHERWISE.
- ALL CEILINGS TO BE 2' x 2' ACOUSTIC PANEL CEILING, TYPE A UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 095113.

REFLECTED CEILING PLAN KEYNOTES

- MOTORIZED CEILING MOUNTED PROJECTION SCREEN.
- CEILING MOUNTED PROJECTOR. REFER TO ELECTRICAL DRAWINGS.
- OPERABLE PANEL PARTITION TRACK AND FRAMED BULKHEAD. REFER TO DETAIL 2/A403
- 5/8" GYPSUM BOARD CEILING ON CEILING SUSPENSION SYSTEM.
- EXPOSED STRUCTURE ABOVE, UNPAINTED.
- METAL SOFFIT PANEL ON LIGHT GAUGE METAL FRAMING @ 24" O.C. OR SPACING AS RECOMMENDED BY MANUFACTURER.
- 5/8" GWB ON METAL STUD FRAMING. FRAMED OPENING AT 8'-10".
- HOLLOW METAL FRAME. REFER TO DOOR SCHEDULE.
- PAINT EXPOSED PIPING, DUCTWORK, CONDUIT, ETC IN THIS AREA.

GENERAL FLOOR PLAN NOTES

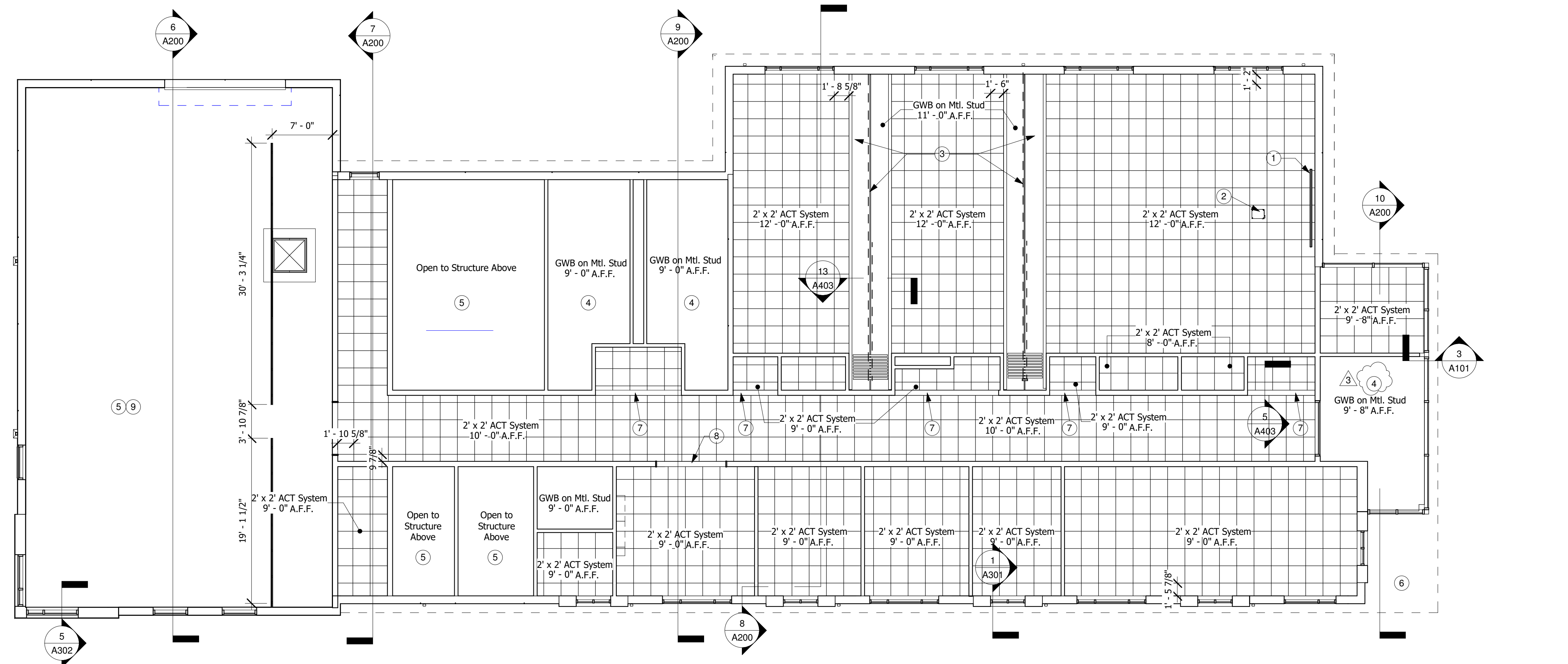
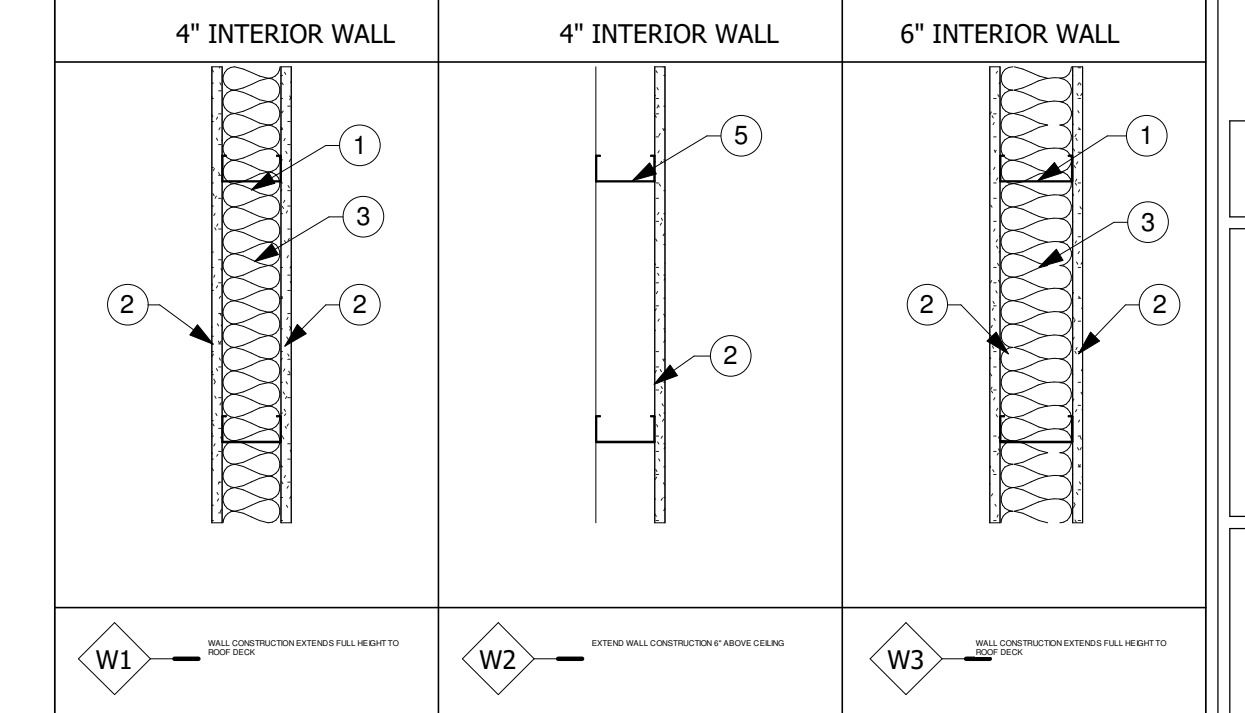
- ALL DIMENSIONS ARE SHOWN TO FACE OF STUD, MASONRY, OR COLUMN CENTERLINES UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS "CLR" OR "CLEAR" INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
- ALL DOOR FRAMES ARE LOCATED 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.
- ALL GYPSUM WALL BOARD IS 5/8" TYPE "X" UNLESS NOTED OTHERWISE.
- REFER TO SHEET A600 FOR DOOR SCHEDULE, AND A601 FOR ROOM FINISH SCHEDULE.
- MANUFACTURER'S LISTED IN THE CONSTRUCTION DOCUMENTS ARE FOR "BASIS-OF-DESIGN". SUBSTITUTIONS SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS AND ASTM STANDARDS LISTED IN THE SPECIFICATIONS TO BE CONSIDERED AN APPROVED EQUAL BY THE OWNER AND ARCHITECT OF RECORD.
- INSTALL BLOCKING INSIDE WALL FOR INSTALLATION OF WALL HUNG EQUIPMENT INCLUDING OWNER PROVIDED EQUIPMENT. COORDINATION LOCATION OF BLOCKING WITH ARCHITECT PRIOR TO INSTALLATION.
- ALL INTERIOR WALLS ARE TYPE "W1" UNLESS NOTED OTHERWISE.
- REFER TO SHEETS S201 & S202 FOR SHEAR WALL LOCATIONS.

FLOOR PLAN KEYNOTES

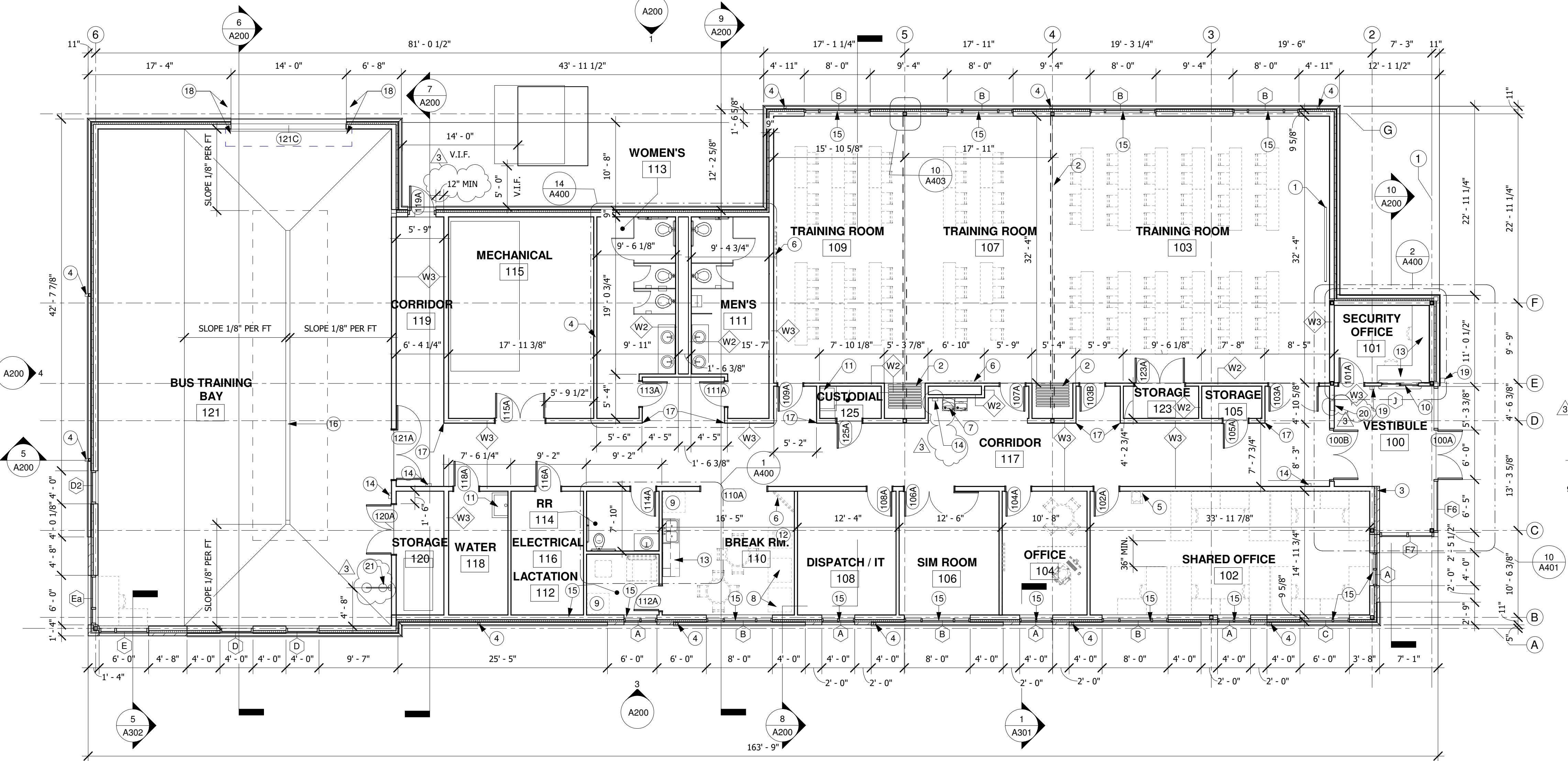
- VIDEO PROJECTION SCREEN: RECESSED CEILING MOUNTED MOTORIZED VIDEO SCREEN IN PLENUM RATED STEEL CASE AND A TUBULAR MOTOR-IN-ROLLER DESIGN WITH 16:9 ASPECT RATIO VIEW AREA OF 65" x 119" (133" DIAGONAL). PROVIDE WITH HIGH CONTRAST GRAY VIEWING SURFACE. PROVIDE QUIET MOTOR OPTION WITH BUILT-IN LOW VOLTAGE CONTROL. PROVIDE WITH 12" DROP. BASIS-OF-DESIGN IS DRAPER, ACCESS FIT SERIES E 133IN CONTRAST GREY X4800. OTHER ACCEPTABLE MANUFACTURERS MEETING REQUIREMENTS ARE DALTEC AND STEWART.
- MANUALLY OPERATED FOLDING PANEL PARTITION. REFER TO SECTION 102239.
- BRICK VENEER.
- 4"x4" PRE-FINISHED ALUMINUM DOWNSPOUT.
- COPIER/ PRINTER (BY OWNER).
- OWNER PROVIDED T.V. SCREENS.
- ELECTRIC WATER COOLER. REFER TO PLUMBING DRAWINGS.
- VENDING MACHINE (BY OWNER). REFER TO ELECTRICAL DRAWINGS.
- FULL SIZE REFRIGERATOR (BY OWNER). REFER TO PLUMBING & ELECTRICAL DRAWINGS.
- SLIDING ALUMINUM TRANSCATION WINDOW.
- 24" X 24" MOP SINK. REFER TO PLUMBING DRAWINGS.
- ICE MACHINE (BY OWNER). REFER TO PLUMBING & ELECTRICAL DRAWINGS.
- PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS AND BUILT UP SOLID SURFACE COUNTERTOPS. REFER TO INTERIOR ELEVATIONS.
- FIRE EXTINGUISHER AND CABINET. REFER TO SECTION 104400 "FIRE PROTECTION SPECIALTIES."
- HORIZONTAL LOUVER BLINDS MOUNTED AT WINDOW HEAD. REFER TO SECTION 122113 "HORIZONTAL LOUVER BLINDS."
- FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
- WALL PROTECTION CORNER GUARDS (SECTION 102600)
- BOLLARD
- AUTO-DOOR OPERATOR
- SEMI-RECESSED AED CABINET. 3L LIFESTART 1400 SERIES ALUMINUM. (1416F12) OR APPROVED EQUAL. MOUNT WITH TOP OF HANDLE AT 48" A.F.F.
- EYE WASH/SHOWER STATION. REFER TO PLUMBING DRAWINGS.

WALL TYPE NOTES

- PROVIDE MINIMUM 20 GAUGE 35/8" METAL STUDS 16" O.C.
- 5/8" GYPSUM WALL BOARD.
- SOUND BATT INSULATION FULL DEPTH AND HEIGHT OF METAL STUD WALL CAVITY.
- PROVIDE MINIMUM 16 GAUGE 6" METAL STUDS, 16" O.C. REFER TO STRUCTURAL DRAWINGS.
- PROVIDE MINIMUM 20 GAUGE 3 5/8" METAL STUDS 16" O.C. BRACE TOP OF WALL TO STRUCTURE ABOVE 36" O.C.

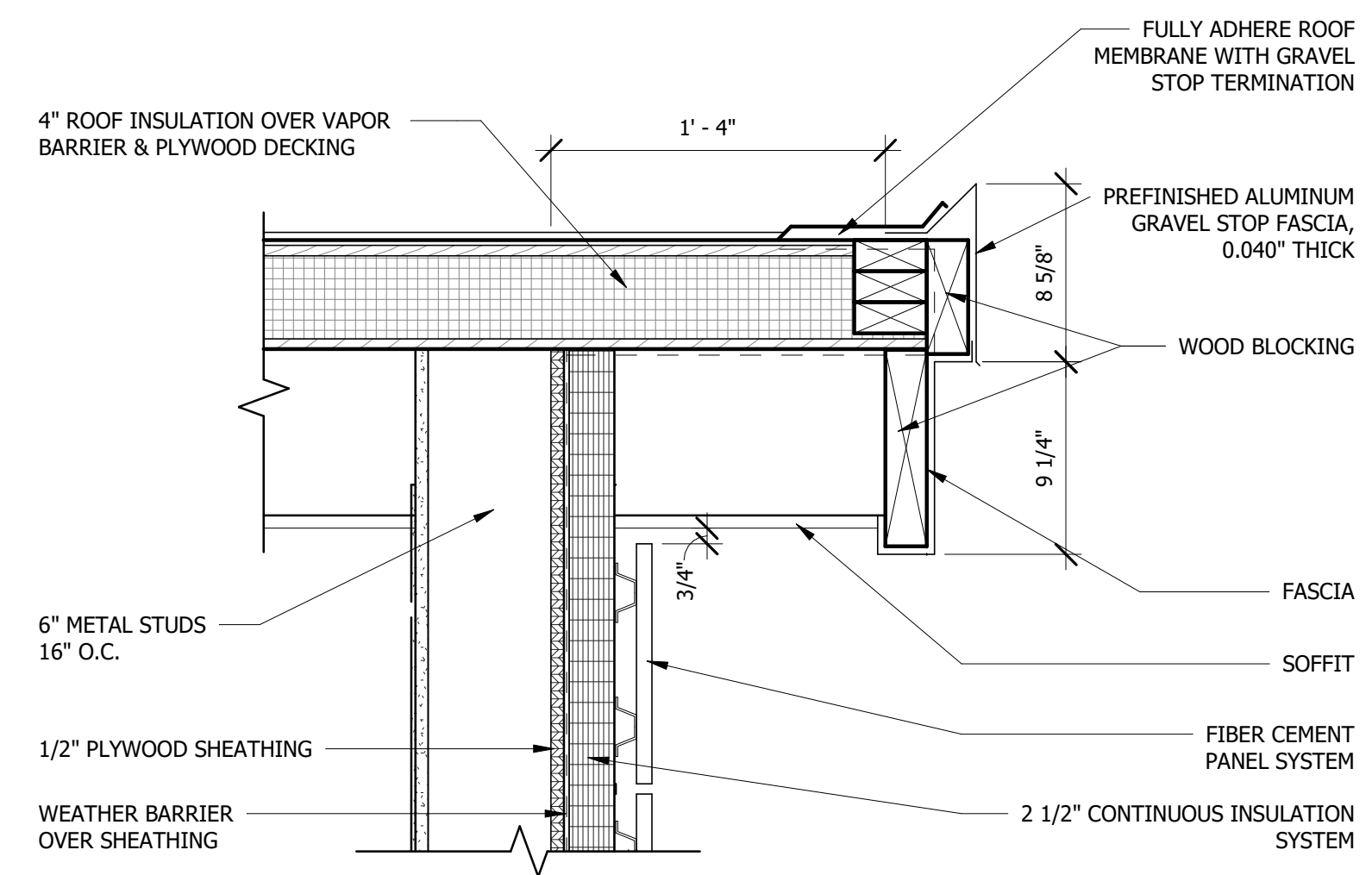


2 Reflected Ceiling Plan
1/8" = 1'-0" REF:3 A400

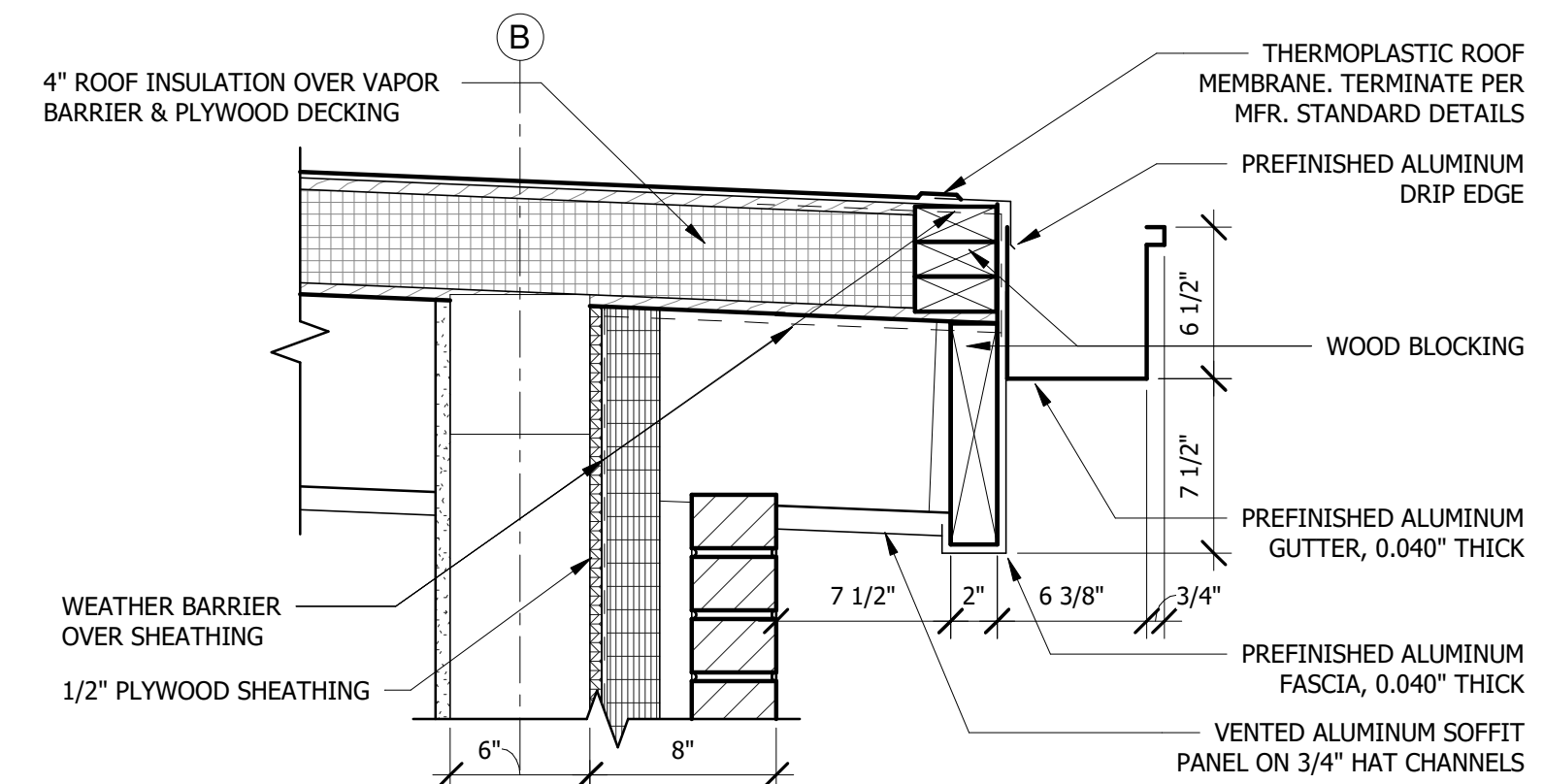


1 First Floor Plan
1/8" = 1'-0" REF:3 A400

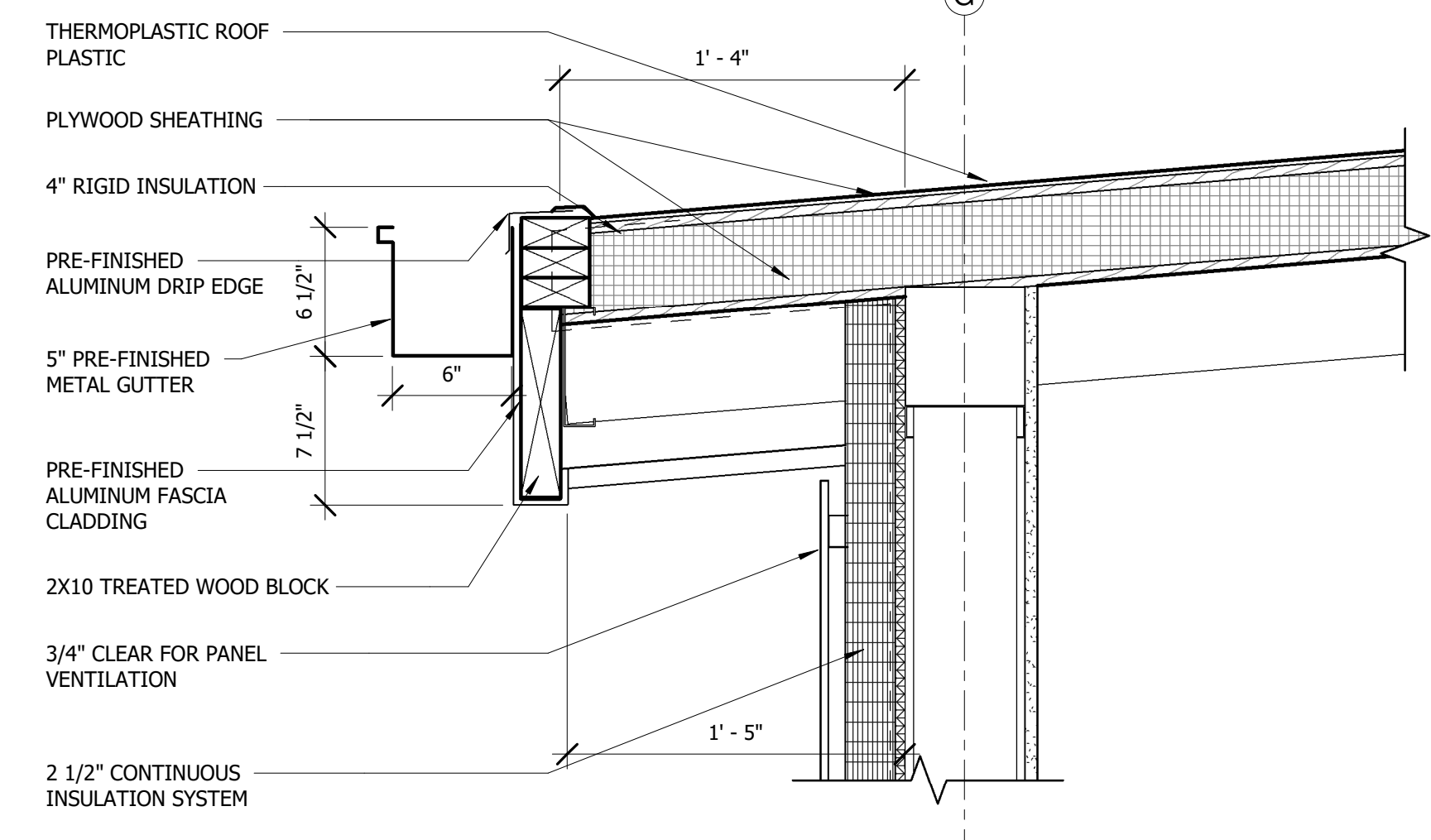
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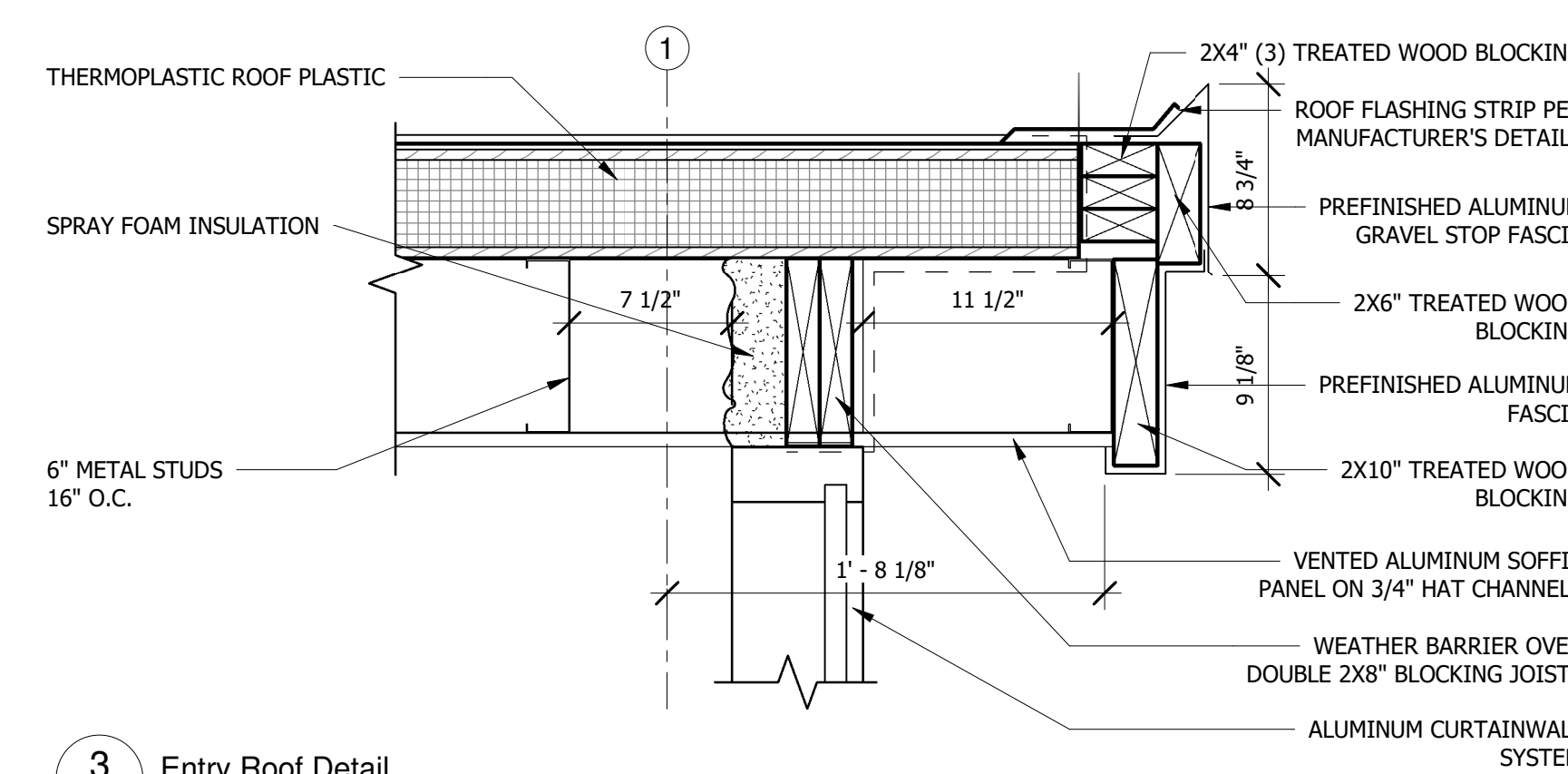
6 Rake Detail
1 1/2" = 1'-0" REF: 1 A101



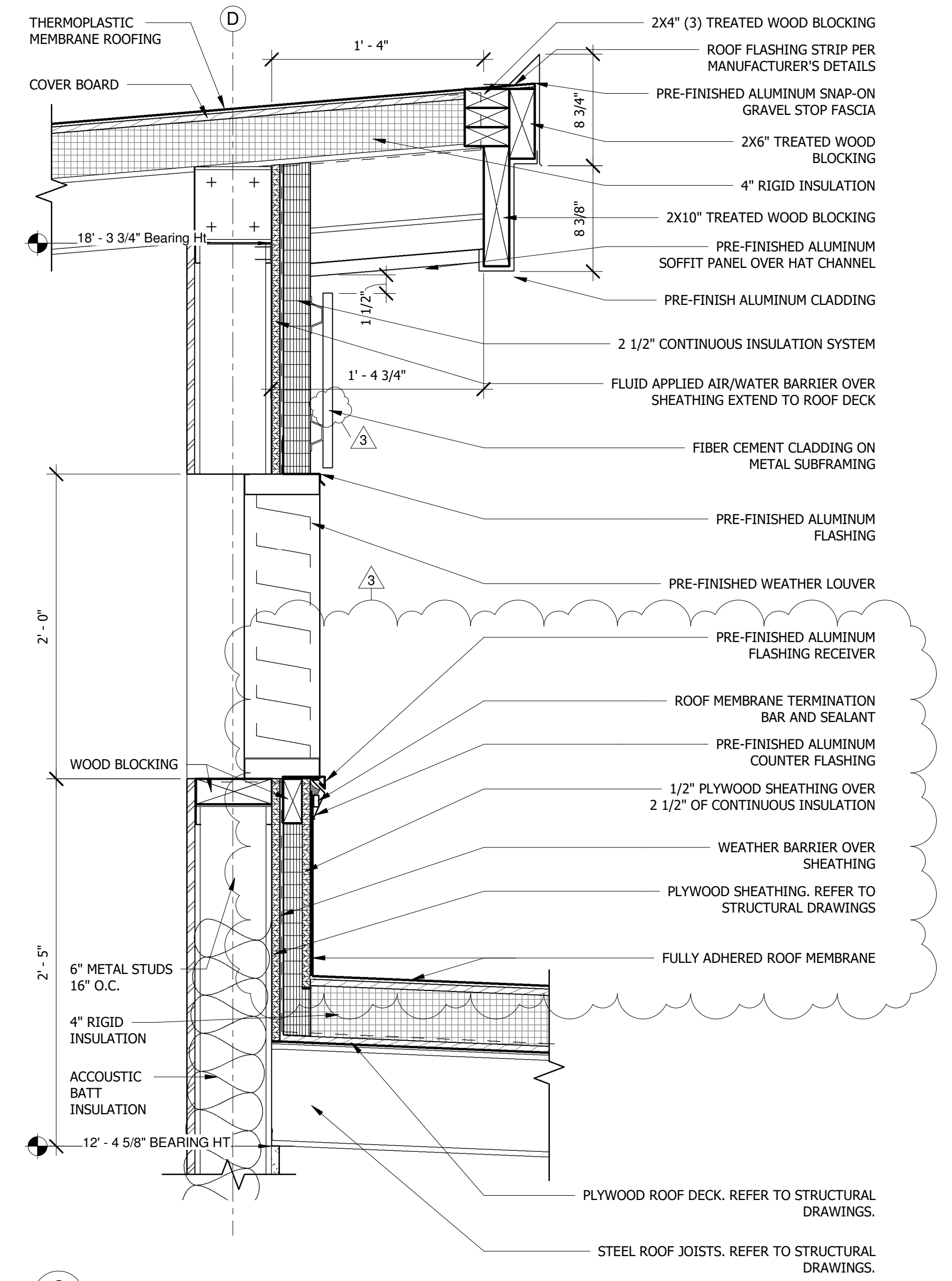
5 Eave & Gutter Detail at Brick
1 1/2" = 1'-0" REF: 1 A101



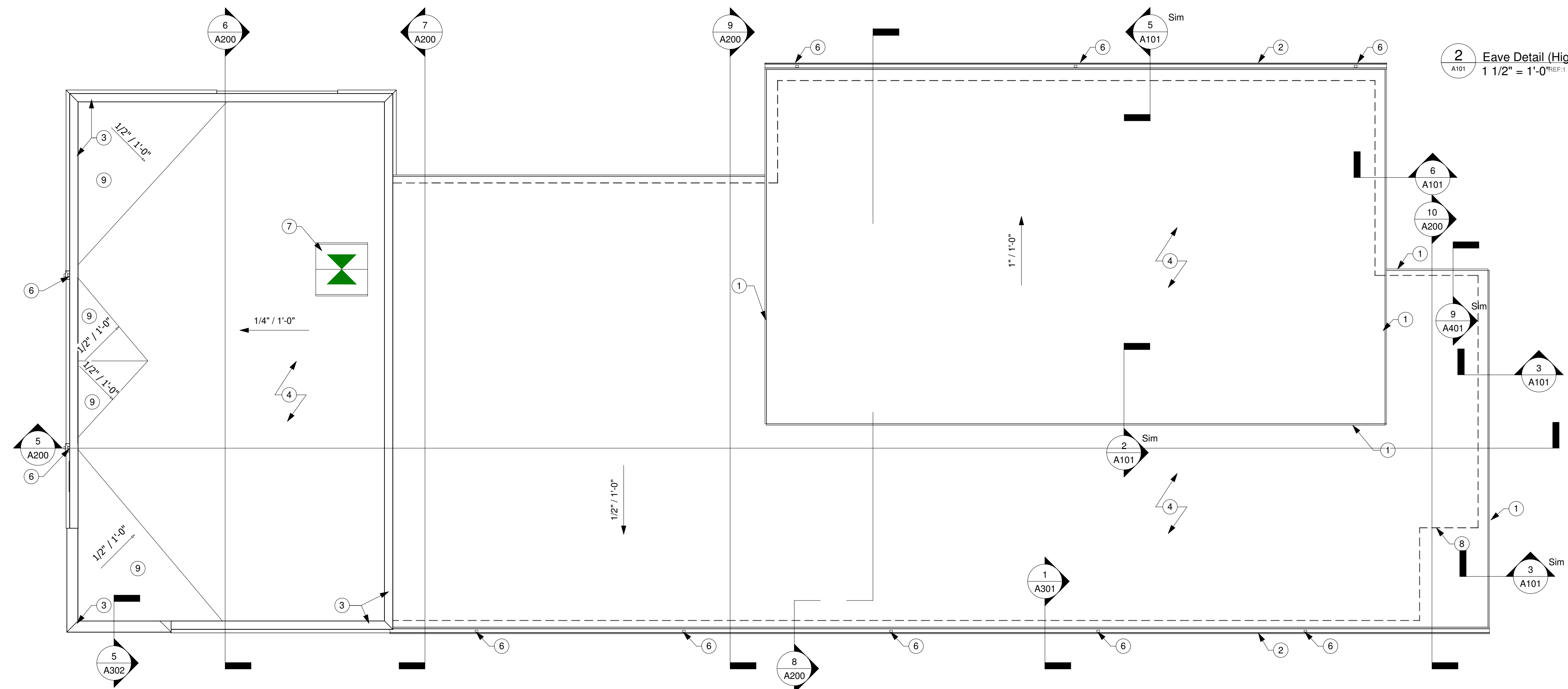
4 TYPICAL EAVE AND GUTTER DETAIL
1 1/2" = 1'-0" REF: 2 A300



3 Entry Roof Detail
1 1/2" = 1'-0" REF: 2 A100



2 Eave Detail (High Side)
1 1/2" = 1'-0" REF: 1 A101



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

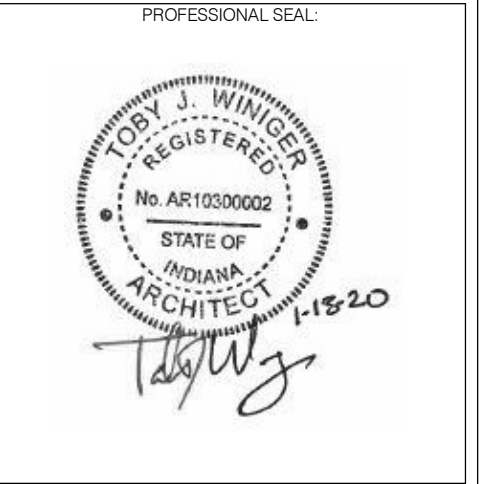
ROOF PLAN KEYNOTES

1. PREFINISHED ALUMINUM GRAVEL STOP & TRIM. REFER TO ROOF DETAILS.
2. PREFINISHED ALUMINUM GUTTER. REFER TO ROOF DETAILS.
3. PREFINISHED ALUMINUM TWO PIECE REGLET & COUNTER-FLASHING. REFER TO ROOF DETAILS.
4. FULLY ADHERED THERMOPLASTIC ROOF MEMBRANE OVER 1/2" COVER BOARD AND 4" OF ROOF INSULATION. PROVIDE ROOF COLOR IN GRAY.
5. MECHANICAL PIPE PENETRATION. REFER TO PLUMBING DRAWINGS FOR LOCATION.
6. PREFINISHED ALUMINUM DOWNSPOUTS.
7. MECHANICAL INTAKE HOOD, PROVIDE COUNTER FLASHING AND ROOF TERMINATION PER MANUFACTURERS SPECIFICATIONS.
8. OUTLINE OF EXTERIOR WALL BELOW THE ROOF LINE.
9. TAPERED ROOF INSULATION, 1/2" PER FOOT

GENERAL FASCIA / COPING SYSTEM NOTES

1. FABRICATE SHEET METAL FOR FASCIA / COPING SYSTEM AS SHOWN ON THIS SHEET, IF CONTRACTOR SHOP FABRICATES.
2. SET FASCIA NAILING FLANGE IN CONTINUOUS BED OF ROOF CEMENT.
3. FASCIA, FASCIA EXTENDER, AND COPING SECTIONS ARE NOT TO EXCEED 10' IN LENGTH.
4. LAYOUT FASCIA, FASCIA EXTENDER, AND COPING RUNS TO PRODUCE EQUAL LENGTHS AT EACH END AND NO LESS THAN 5' IN LENGTH.
5. STAGGER JOINTS IN FASCIA AND FASCIA EXTENDERS EQUALLY.
6. STAGGER JOINTS IN CLEATS WITH JOINTS IN FASCIA AND FASCIA EXTENDERS.
7. BUTT FASCIA, FASCIA EXTENDER, COPING AND CLEAT SECTIONS WITH A 1/4" GAP.
8. PROVIDE PRE-PUNCHED ANCHOR HOLES.
9. FASCIA AND COPING CORNERS ARE TO BE MITERED AND FORMED. JOINTS ARE TO BE WELDED OR LAPPED, RIVETED 1" O.C. AND SOLDERED. EACH LEG OF THE CORNER IS NOT TO EXCEED 18" IN LENGTH.

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PROJECT NUMBER:
180024.05

REVISION SCHEDULE			
#	DESCRIPTION	DRAWN BY	DATE ISSUED
3	Addendum 3		3/2/2020

DATE ISSUED	DRAWN BY	CHECKED BY
JANUARY 13, 2020	PS	BF

ROOF PLAN

SHEET NUMBER:
A101

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PROFESSIONAL SEAL:

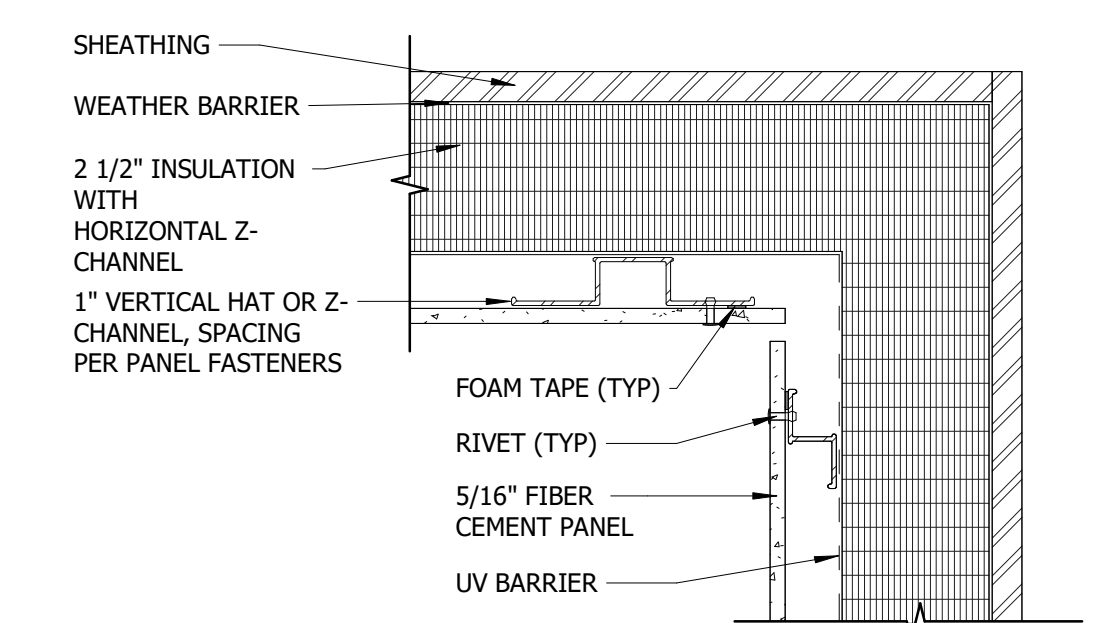
PROJECT NUMBER:
180024.05

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE ISSUED
3	Addendum 3	3/2/2020

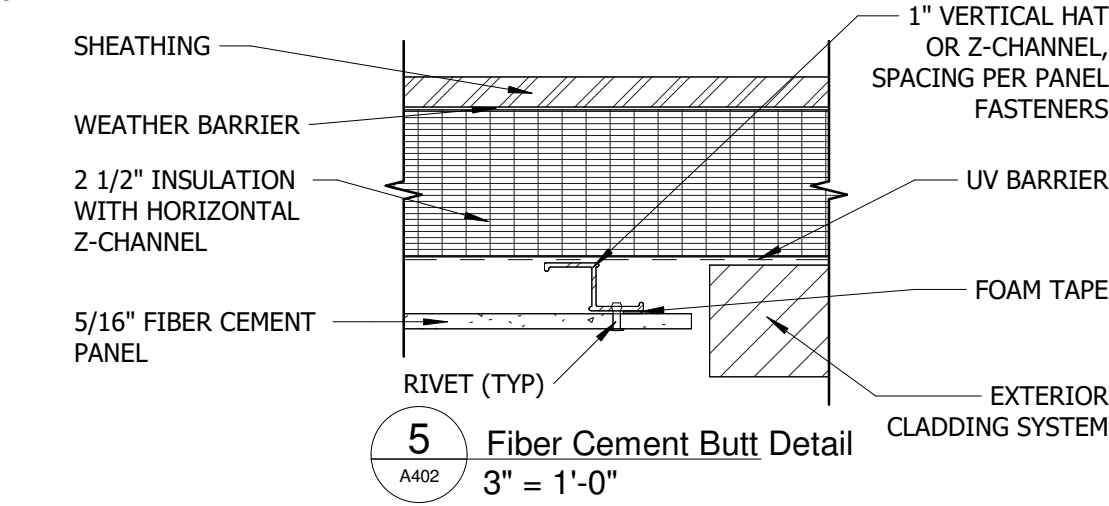
DATE ISSUED	DRAWN BY	CHECKED BY
JANUARY 13, 2020	PS	BF

DRAWING TITLE:
ENLARGED DETAILS

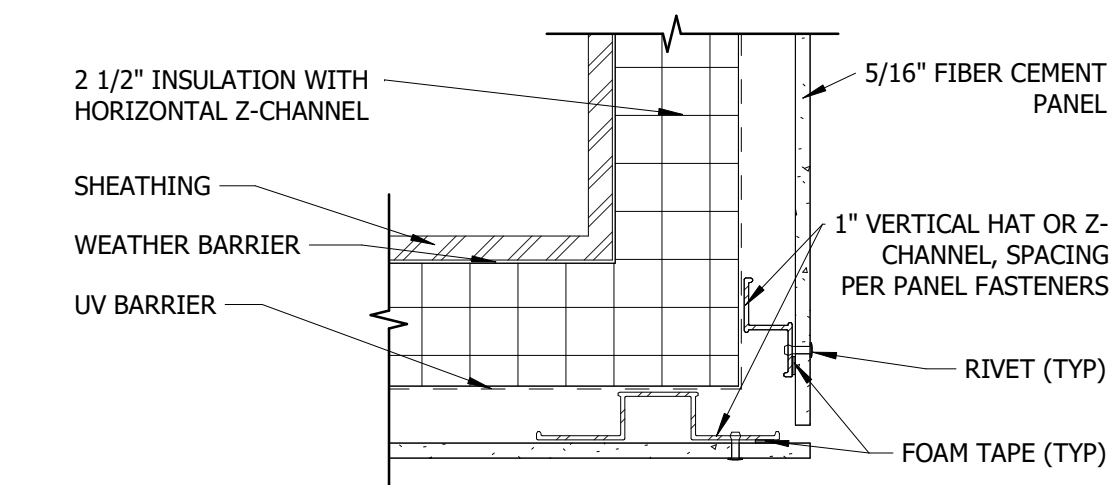
SHEET NUMBER:
A402



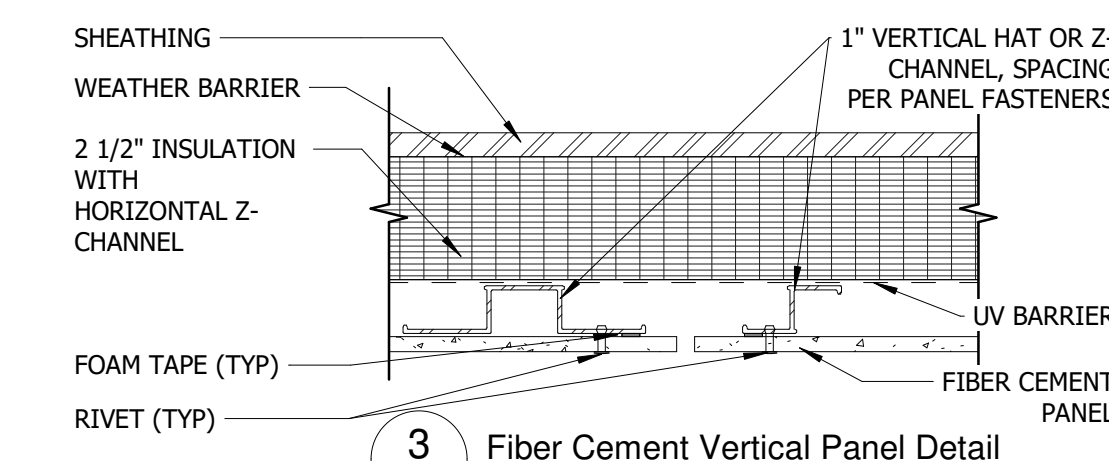
6 Fiber Cement Inside Corner
3" = 1'-0"



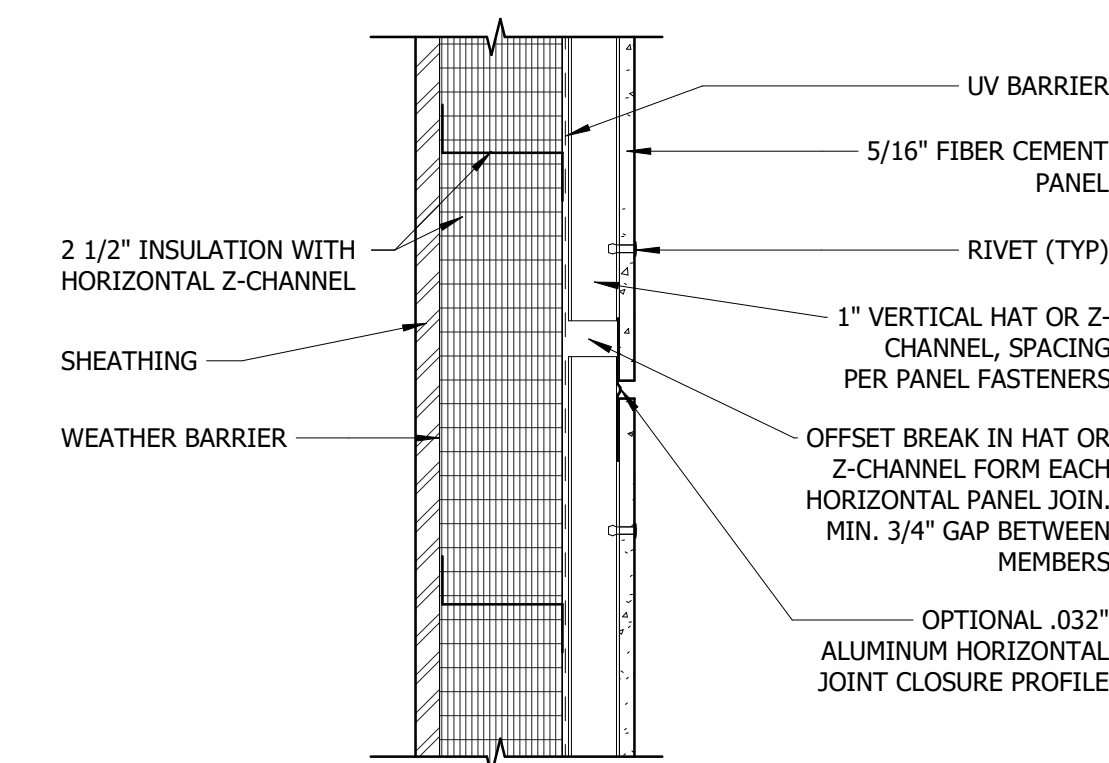
5 Fiber Cement Butt Detail
3" = 1'-0"



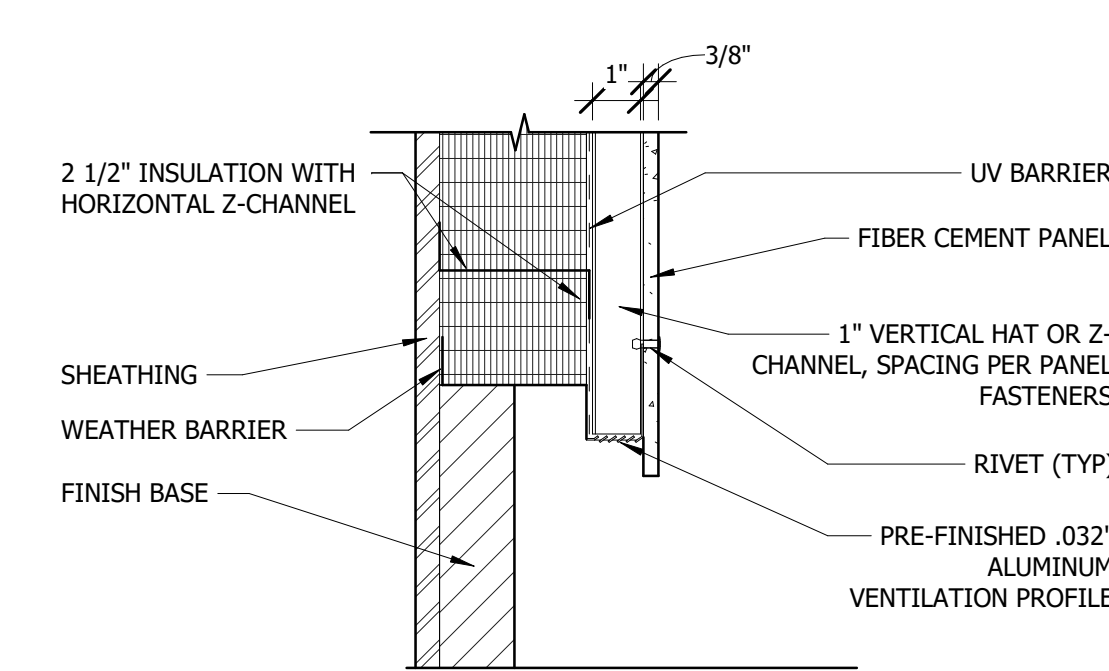
4 Fiber Cement Outside Corner
3" = 1'-0"



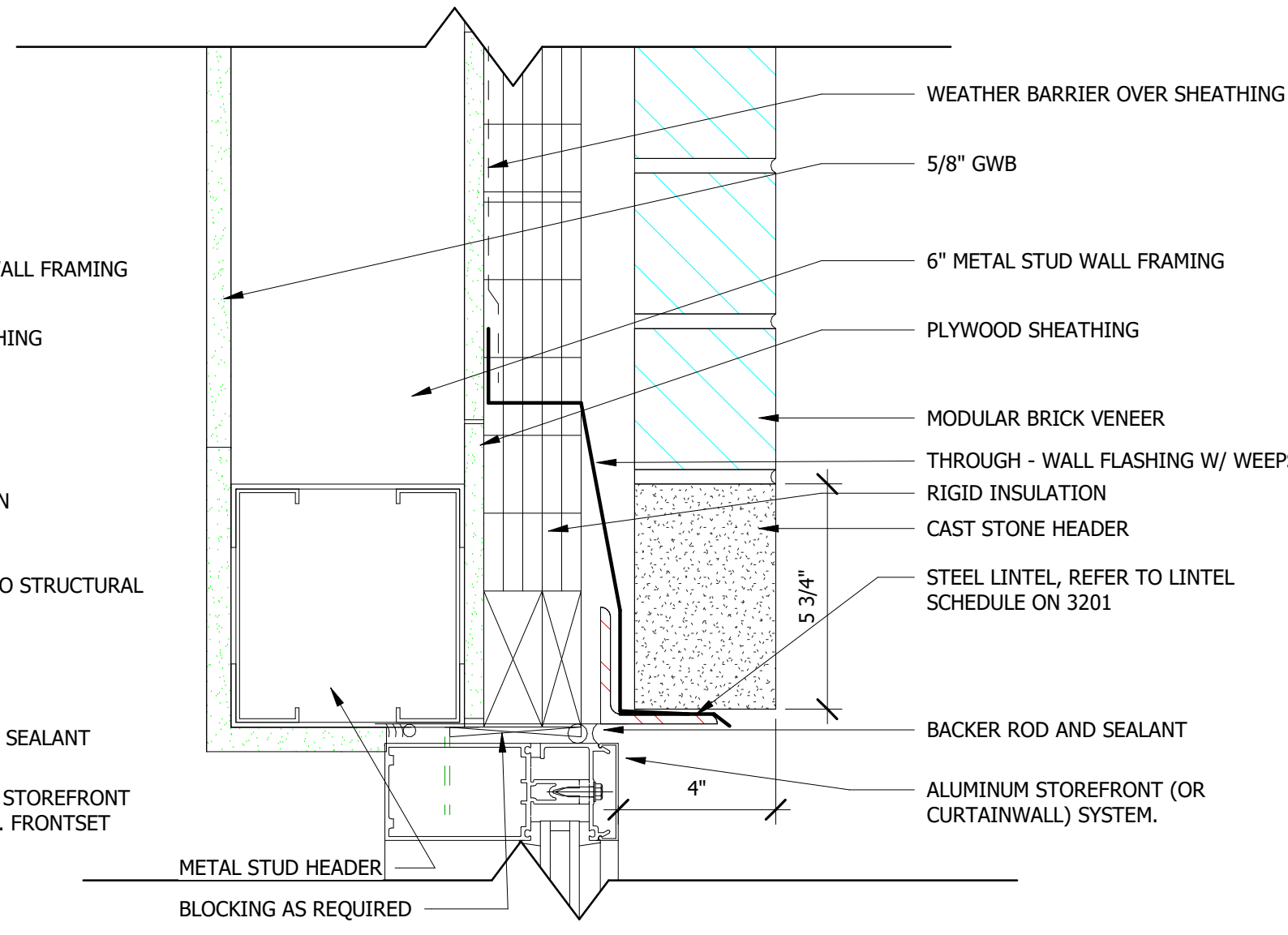
3 Fiber Cement Vertical Panel Detail
3" = 1'-0"



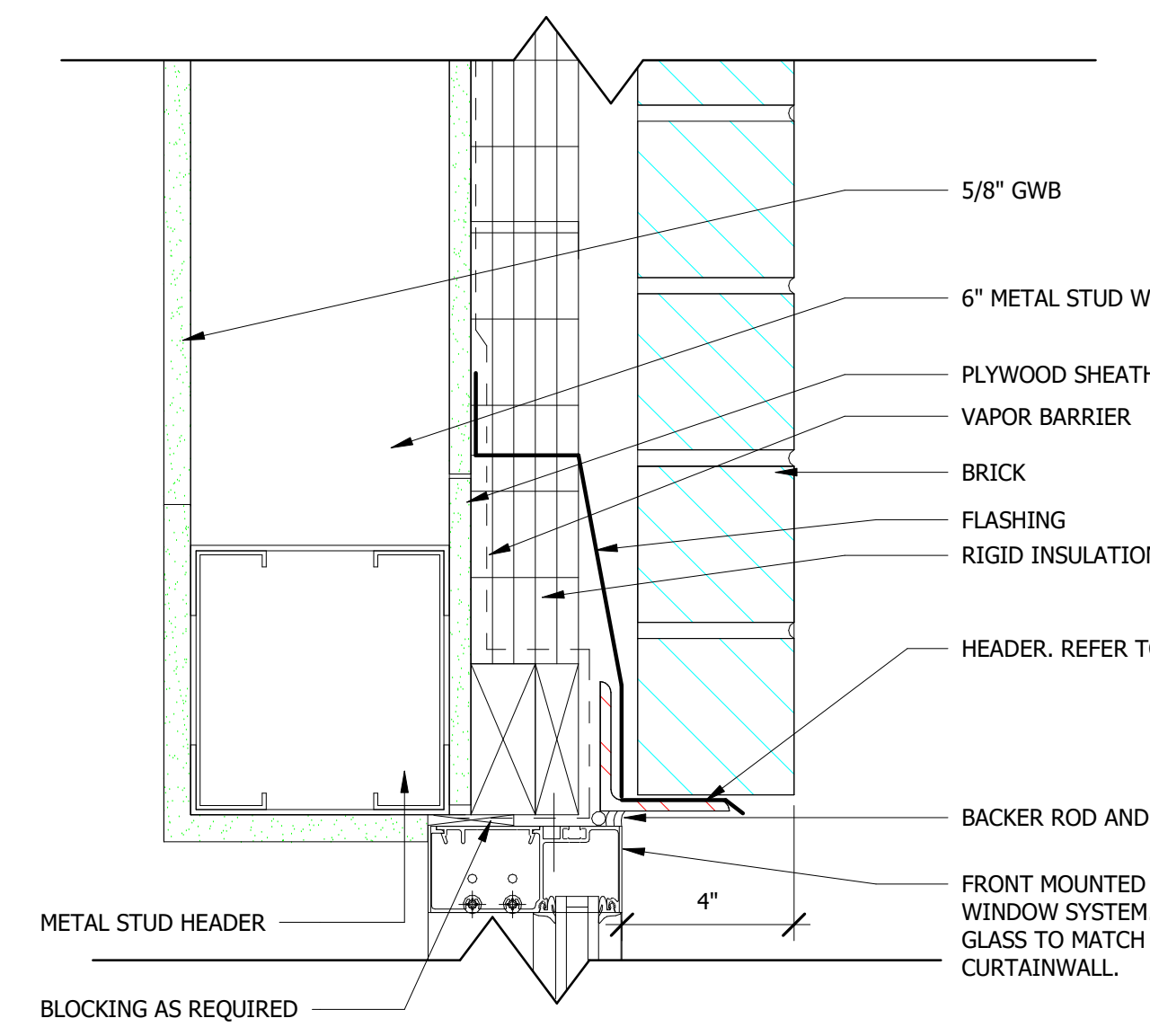
2 Fiber Cement Horizontal Panel Detail
3" = 1'-0"



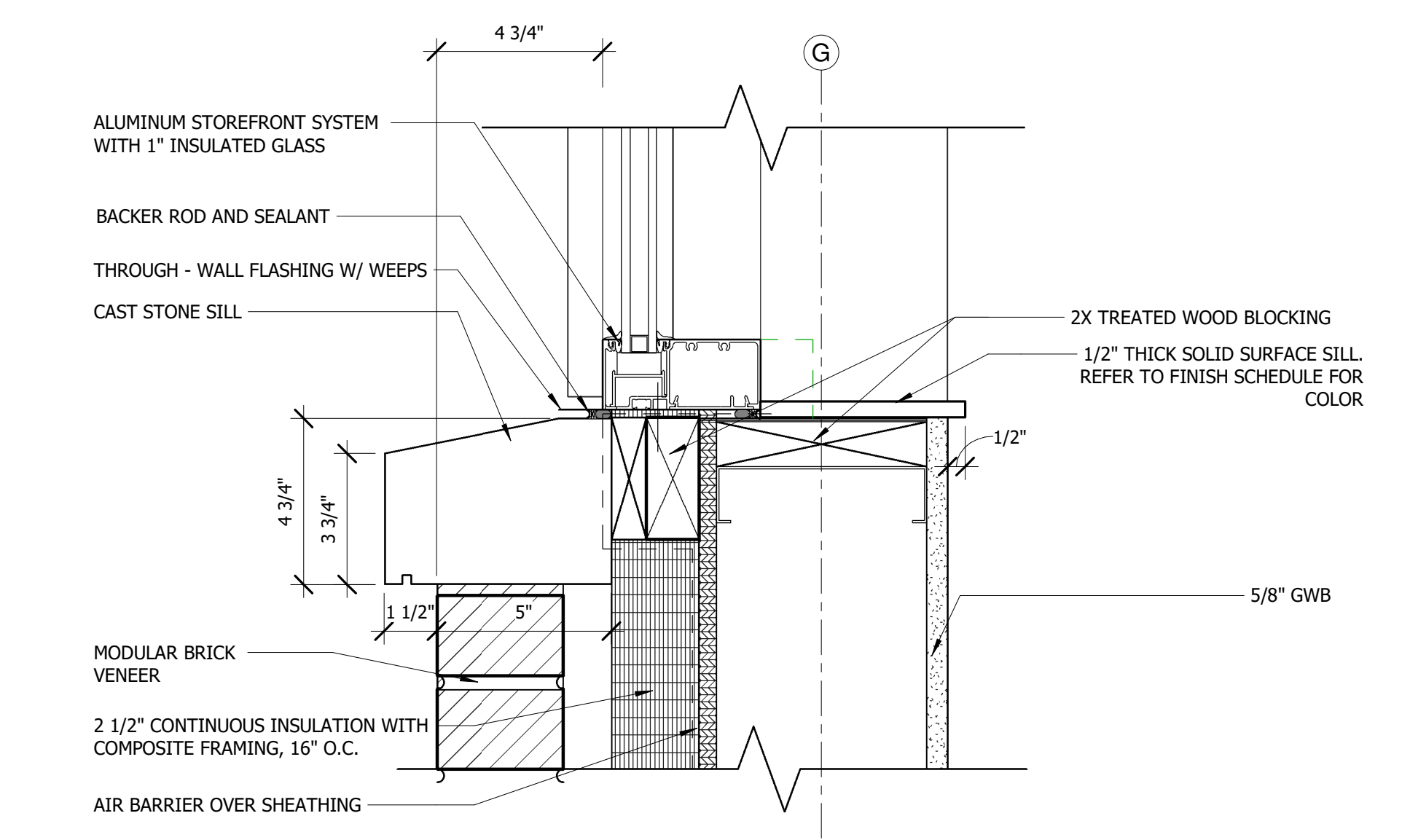
1 Fiber Cement Base Detail
3" = 1'-0"



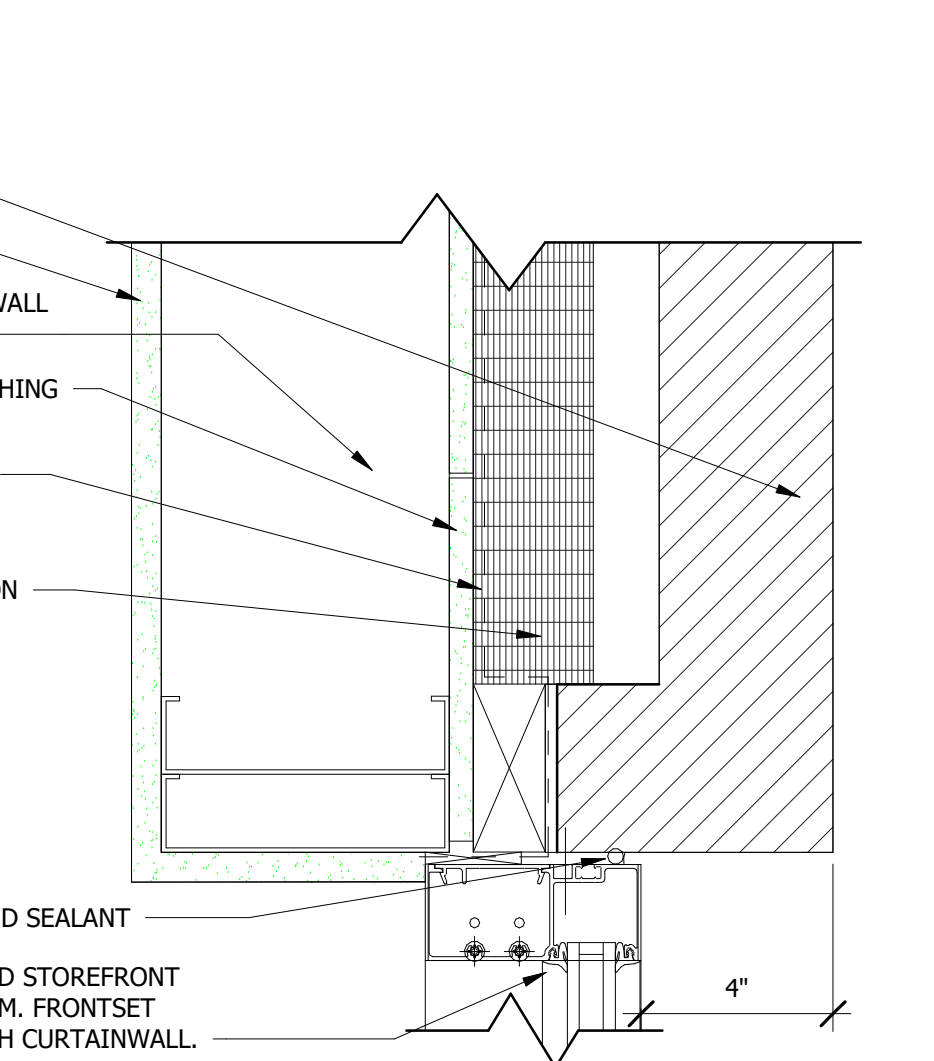
9 AL Head Exterior Cast Stone
3" = 1'-0"



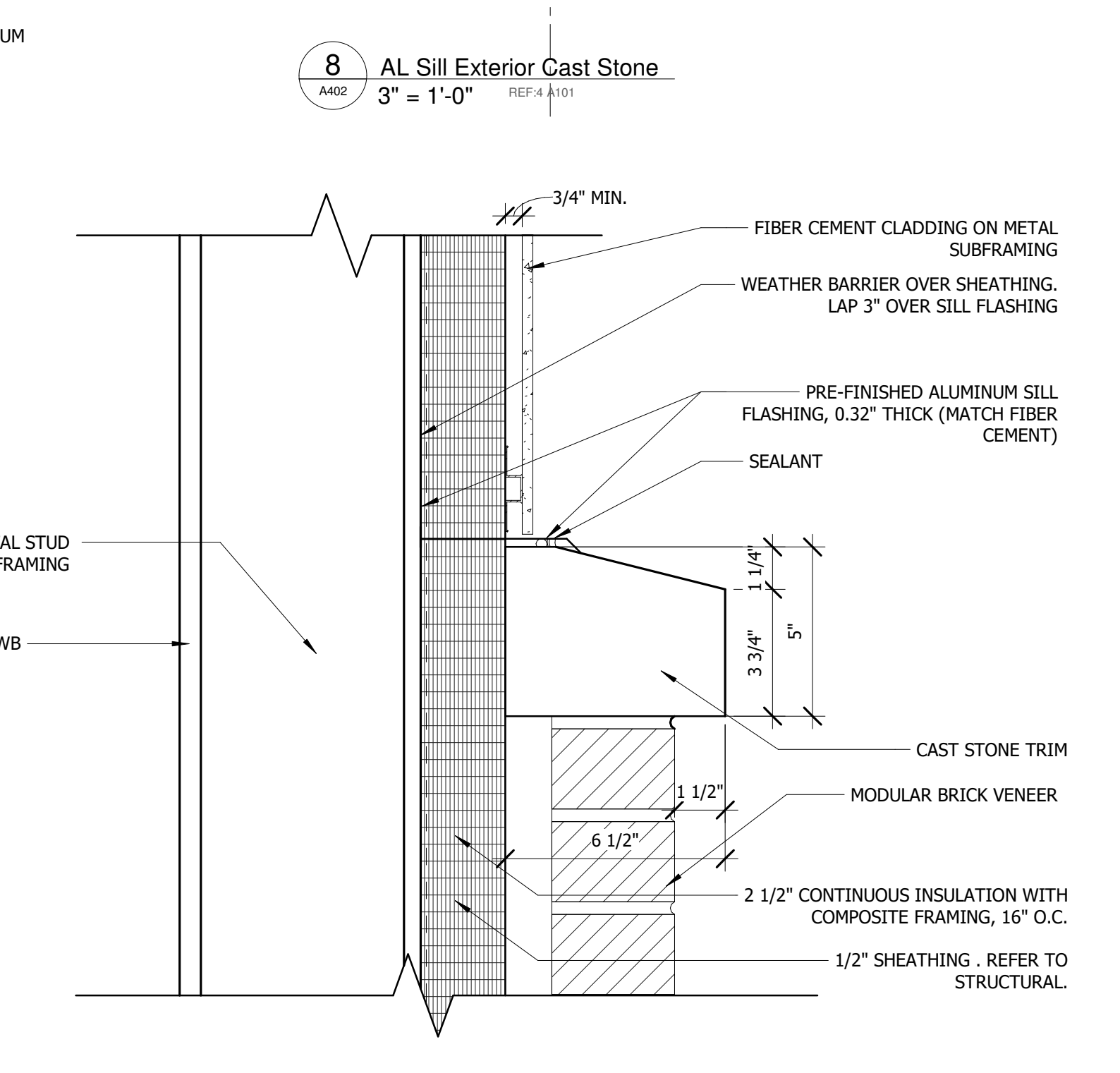
12 AL Head Exterior Brick
3" = 1'-0"



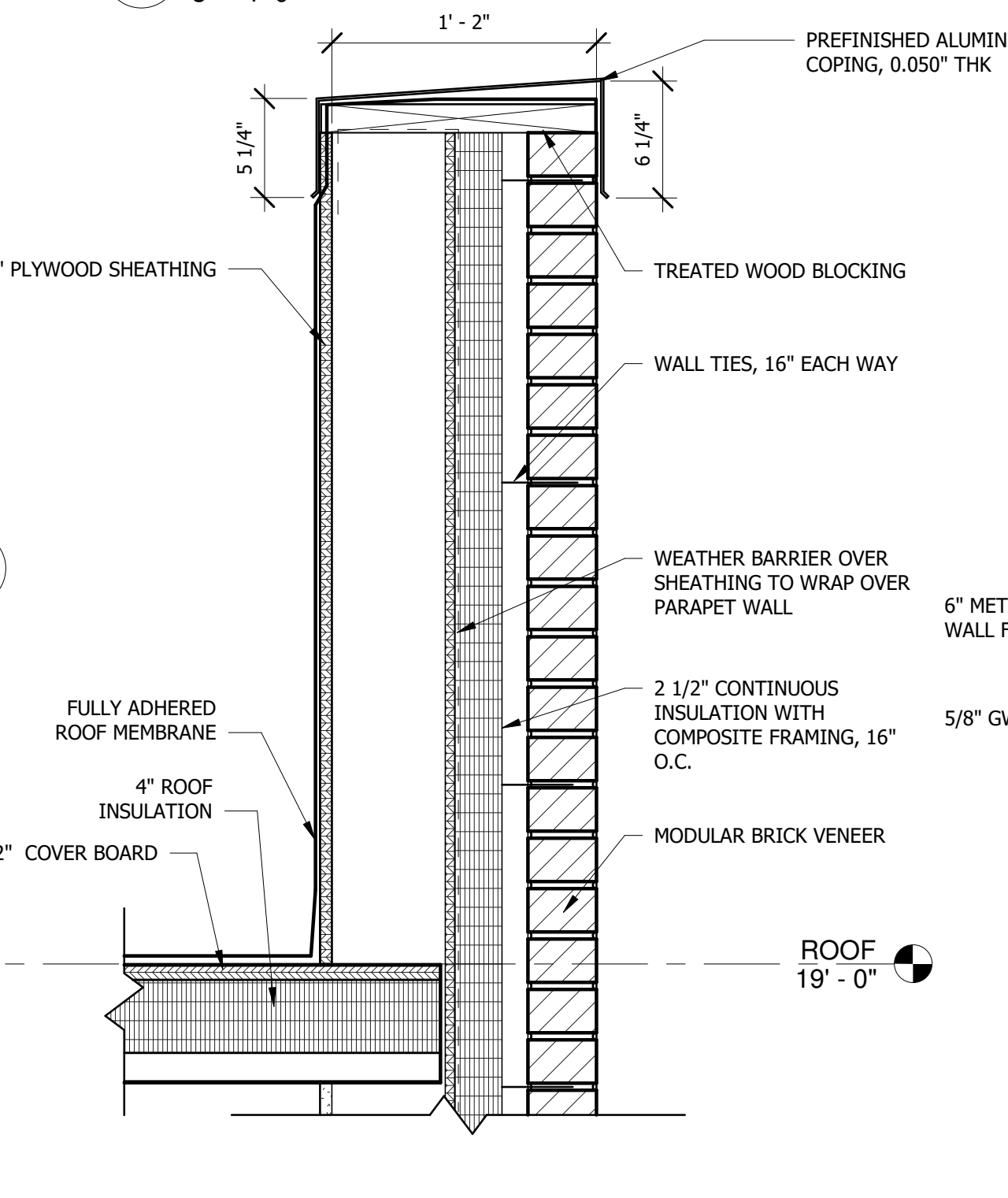
8 AL Sill Exterior Cast Stone
3" = 1'-0"



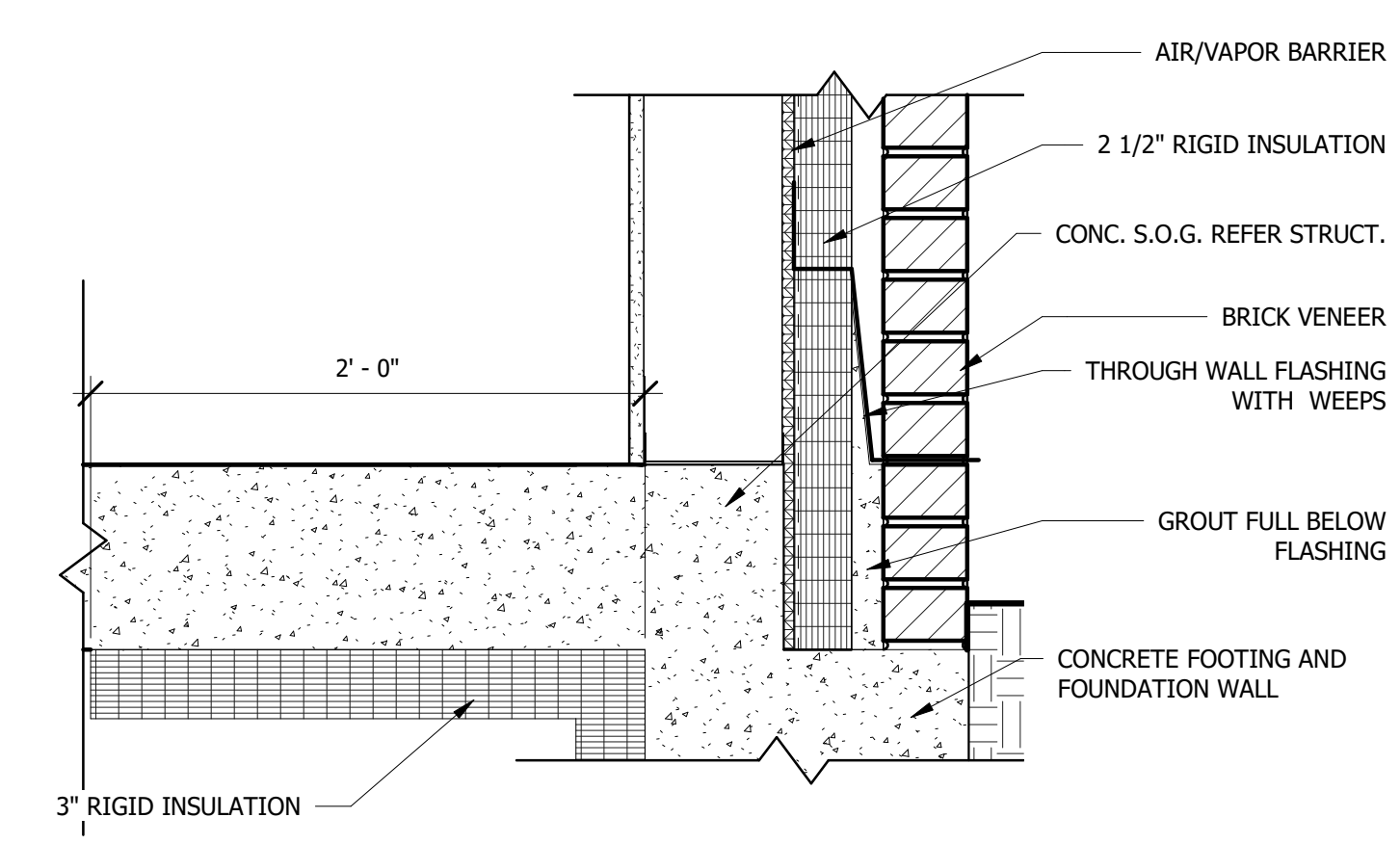
11 AL Jamb Exterior Brick
3" = 1'-0"



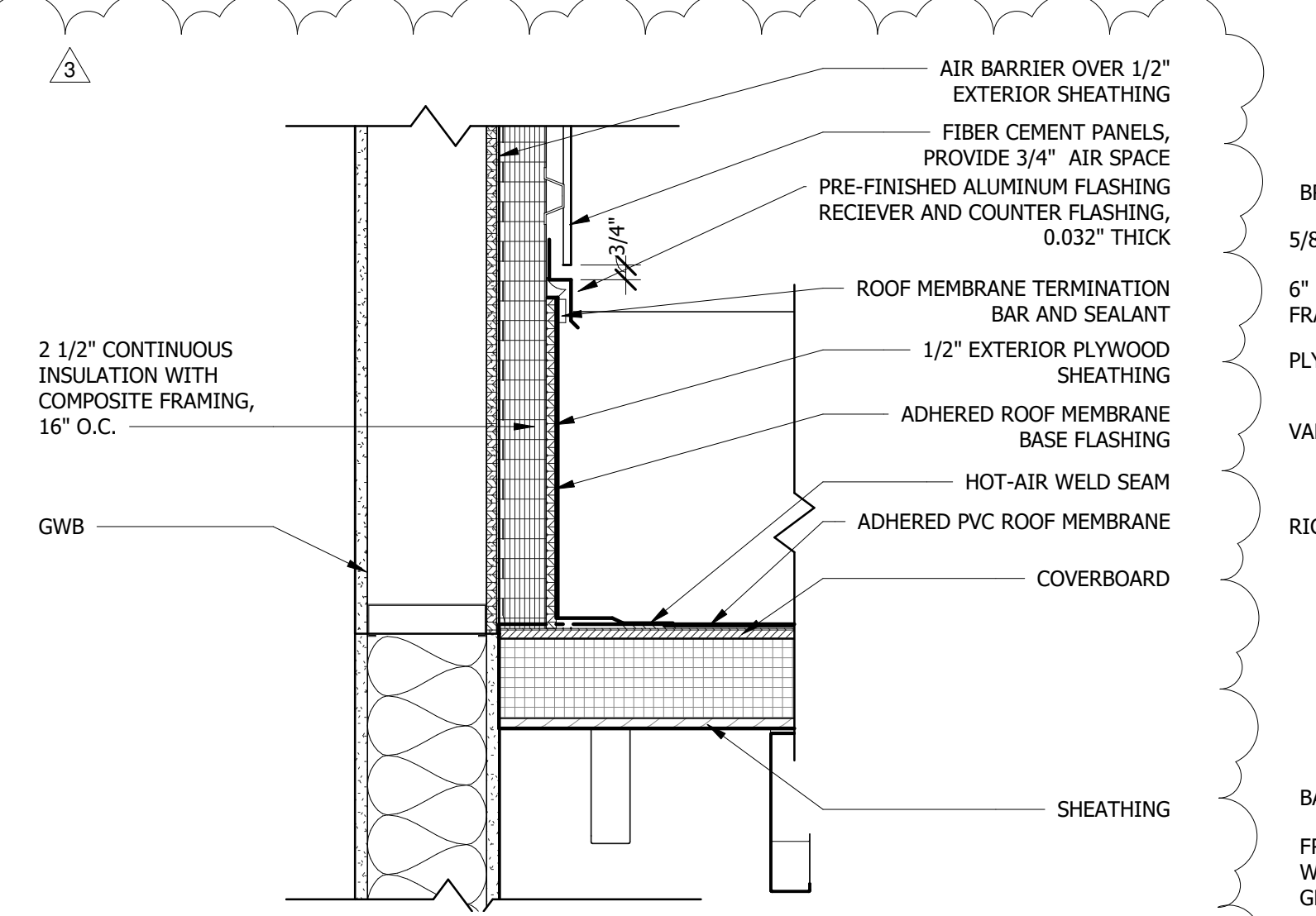
7 Sill Transition to Fiber Cement Panel
3" = 1'-0"



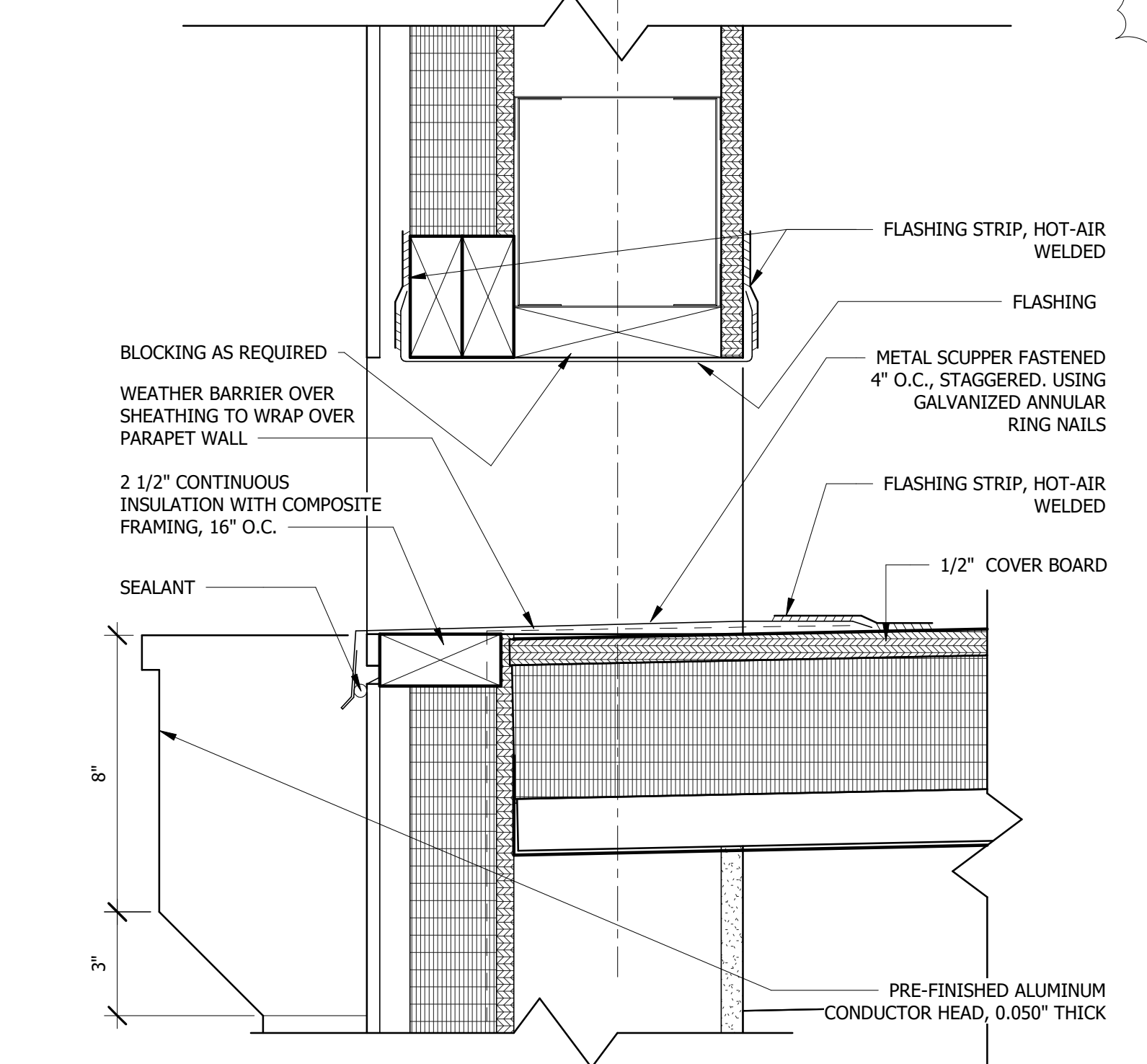
10 Wall Section - Bus Bay South Wall Brick - Callout 1
1 1/2" = 1'-0"



15 Masonry Base Flashing Detail
1 1/2" = 1'-0"



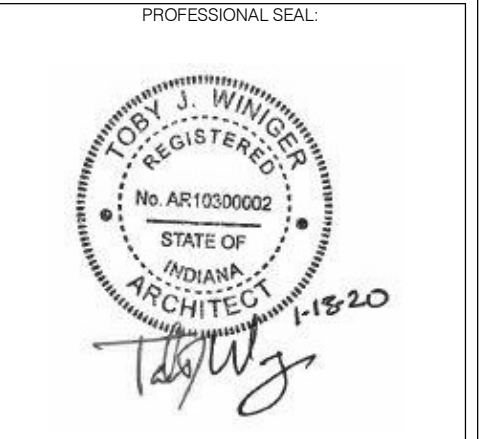
14 Roof at Parapet Wall Flashing
1 1/2" = 1'-0"



13 Through - Wall Scupper Detail
3" = 1'-0"

3/3/2020 8:28:42 AM BIM 360://IndyGo Training Facility/18-120-5 Training Facility.rvt

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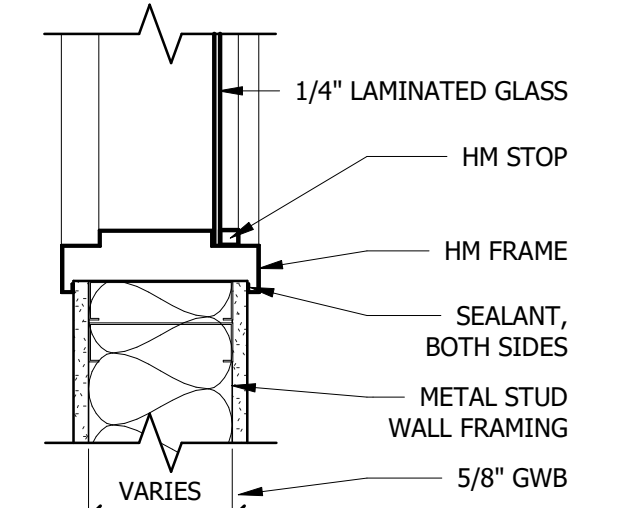
PROJECT NUMBER:
180024.05

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE ISSUED
3	Addendum 3	3/2/2020

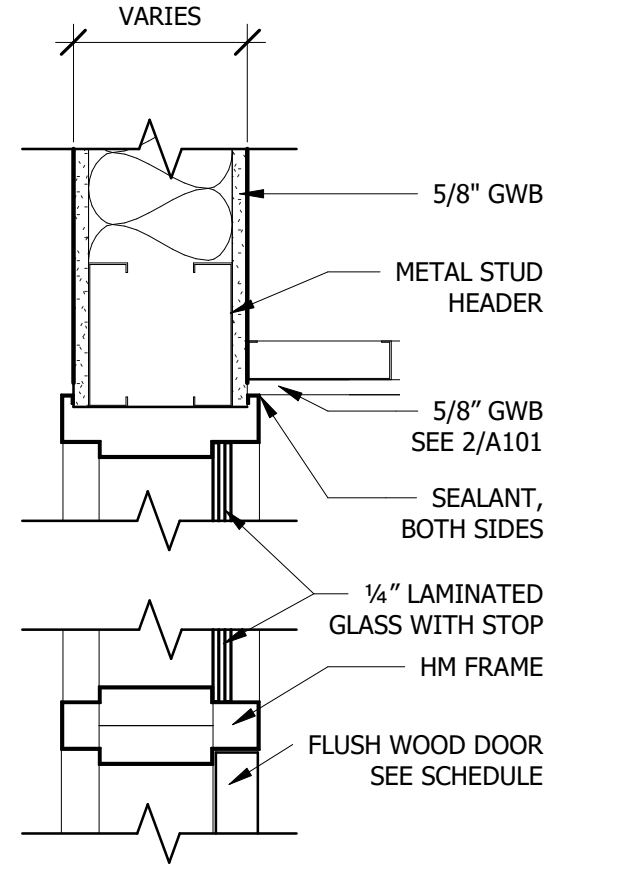
DATE ISSUED	DRAWN BY	CHECKED BY
JANUARY 13, 2020	PS	BF

DRAWING TITLE:
ENLARGED DETAILS

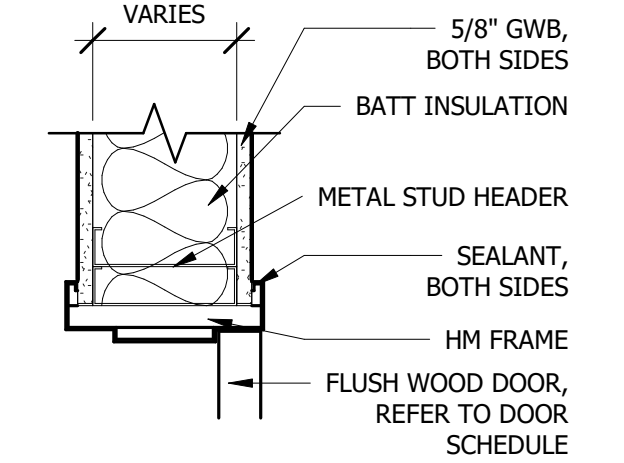
SHEET NUMBER:
A403



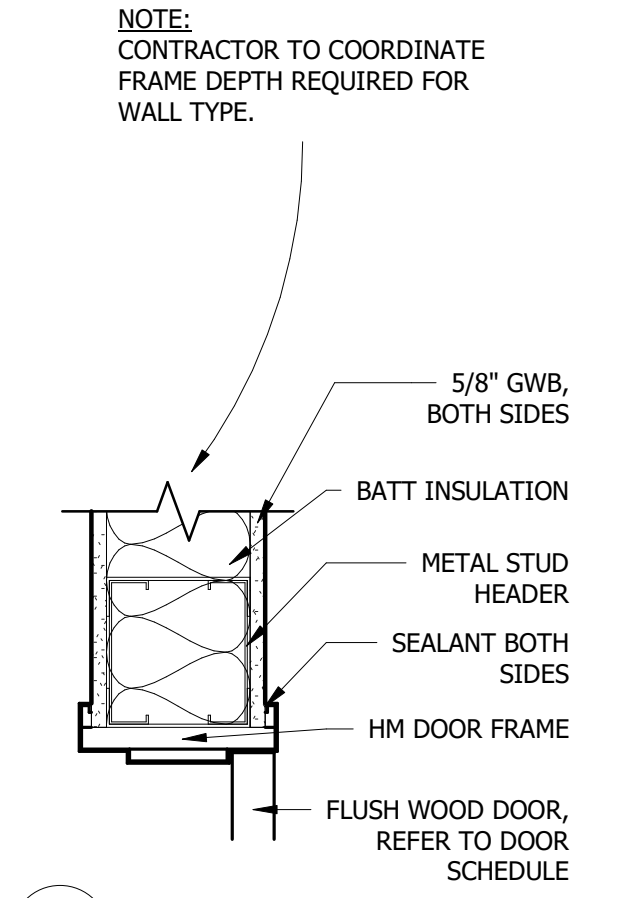
4 HM Transom Jamb
1 1/2" = 1'-0"



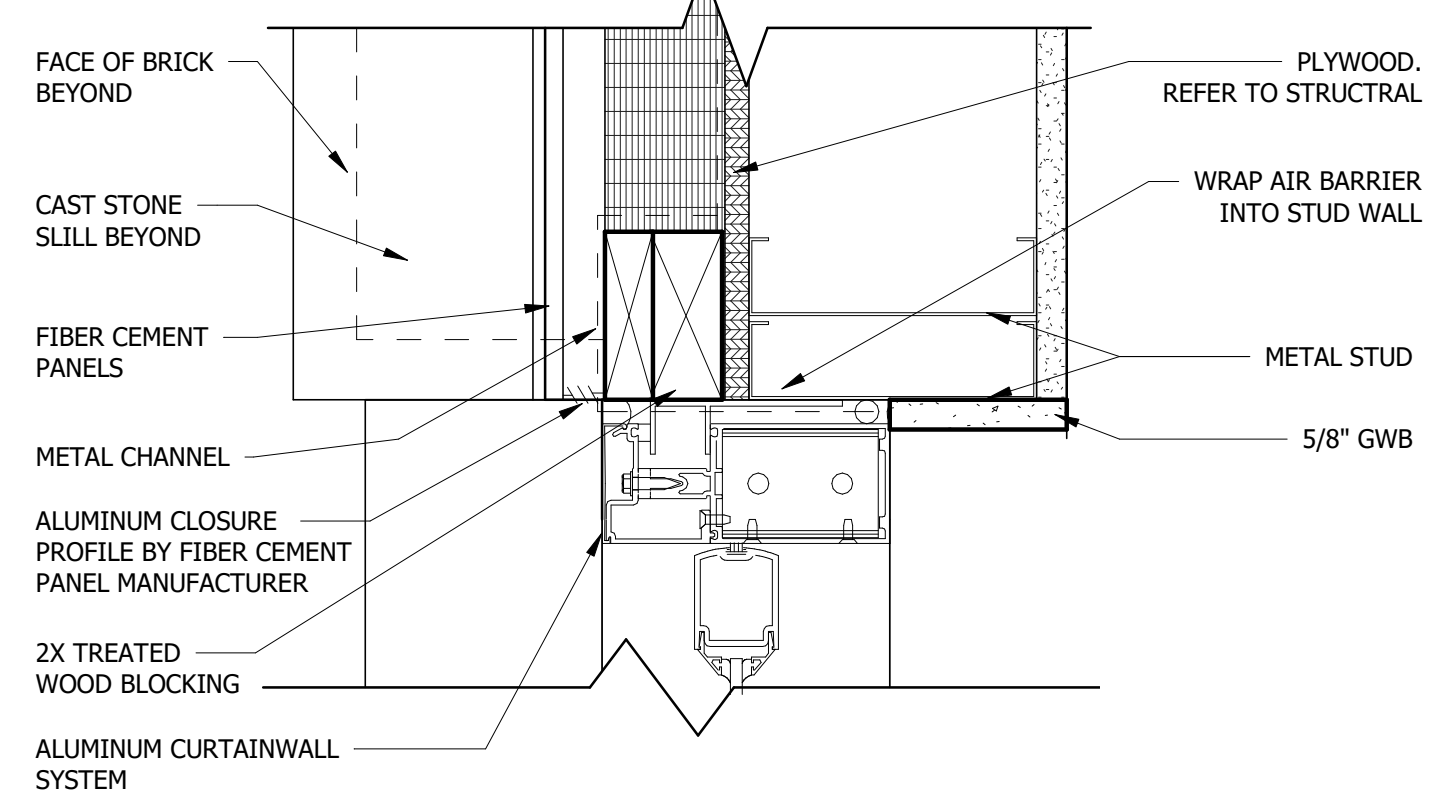
3 HM Transom Head and Sill
1 1/2" = 1'-0"



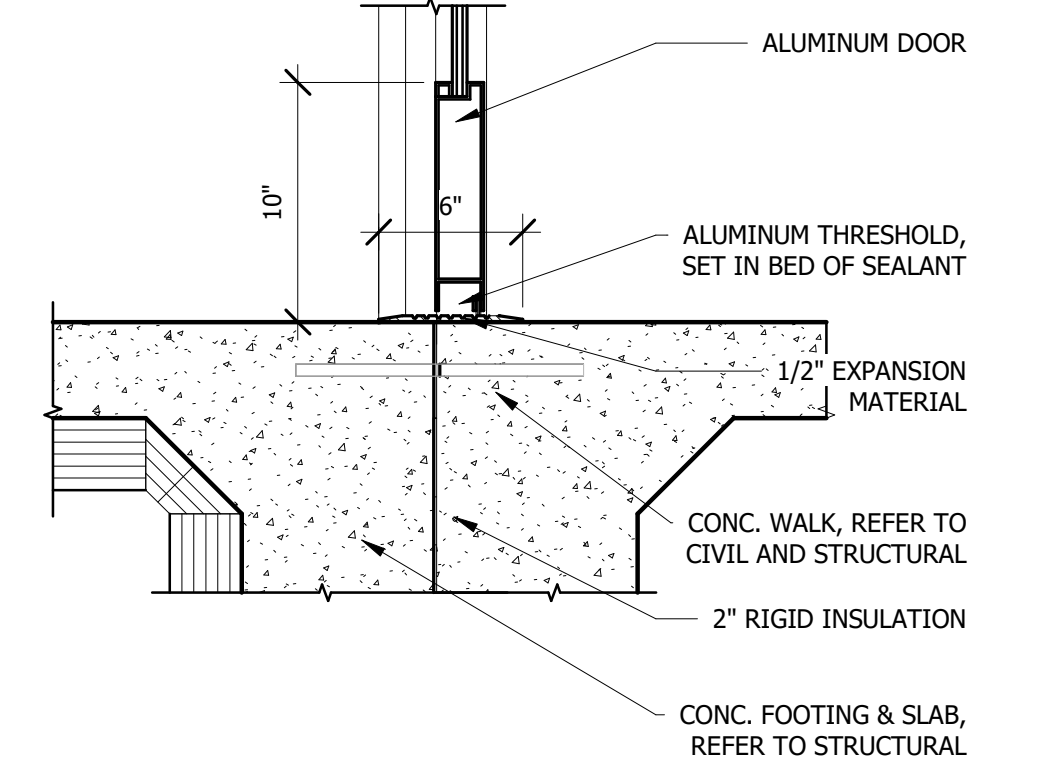
2 HM Jamb Detail
1 1/2" = 1'-0"



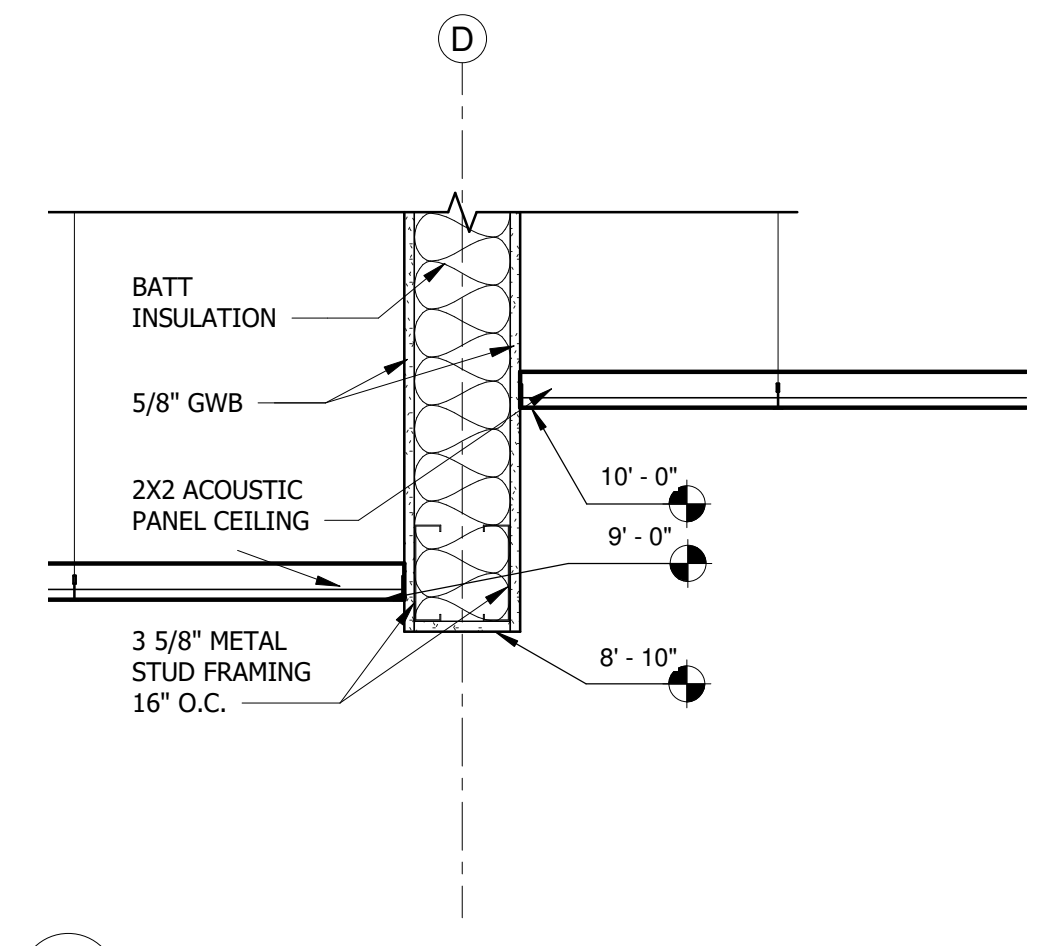
1 HM Head Detail
1 1/2" = 1'-0"



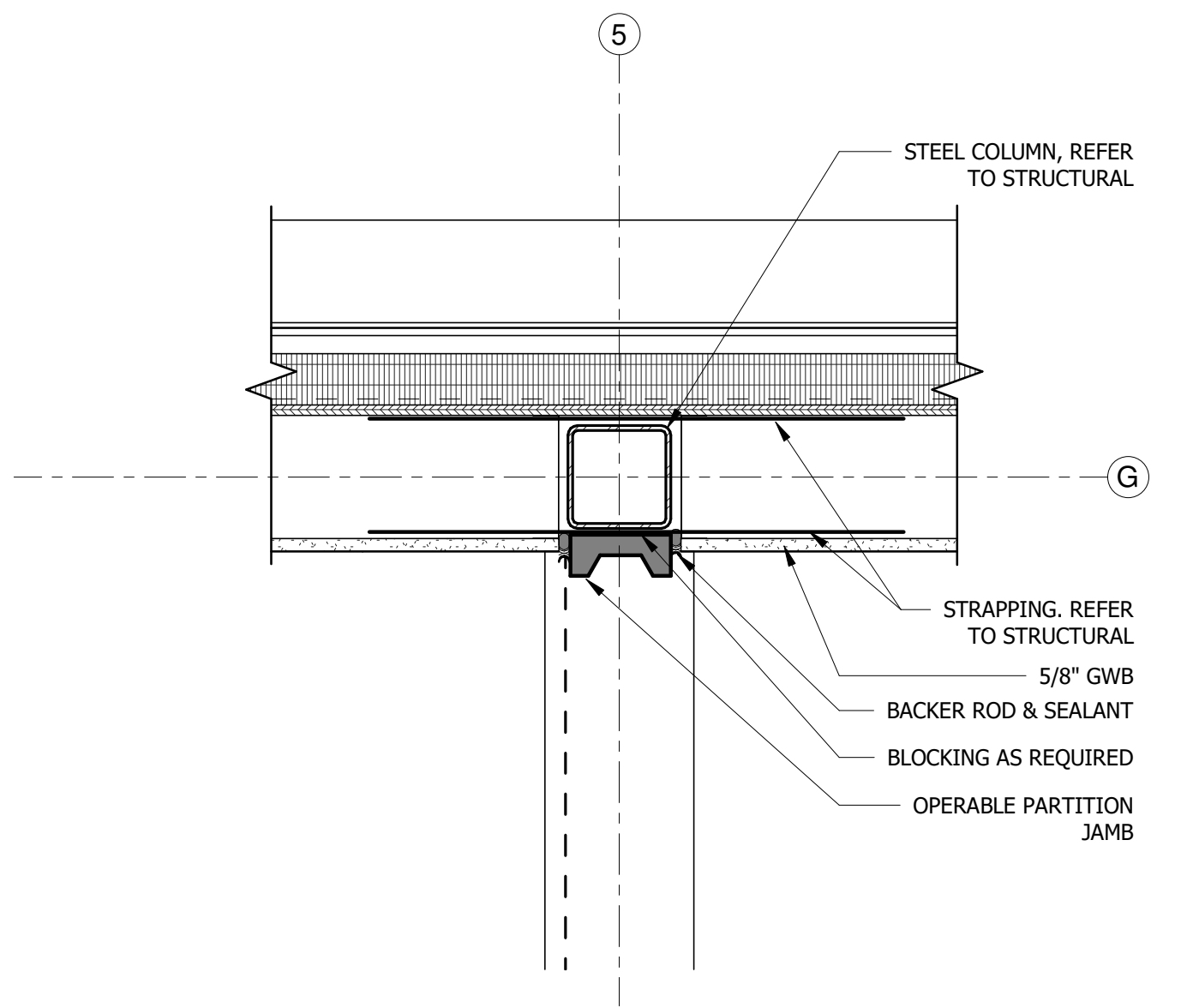
7 Transom Jamb Detail
3" = 1'-0"



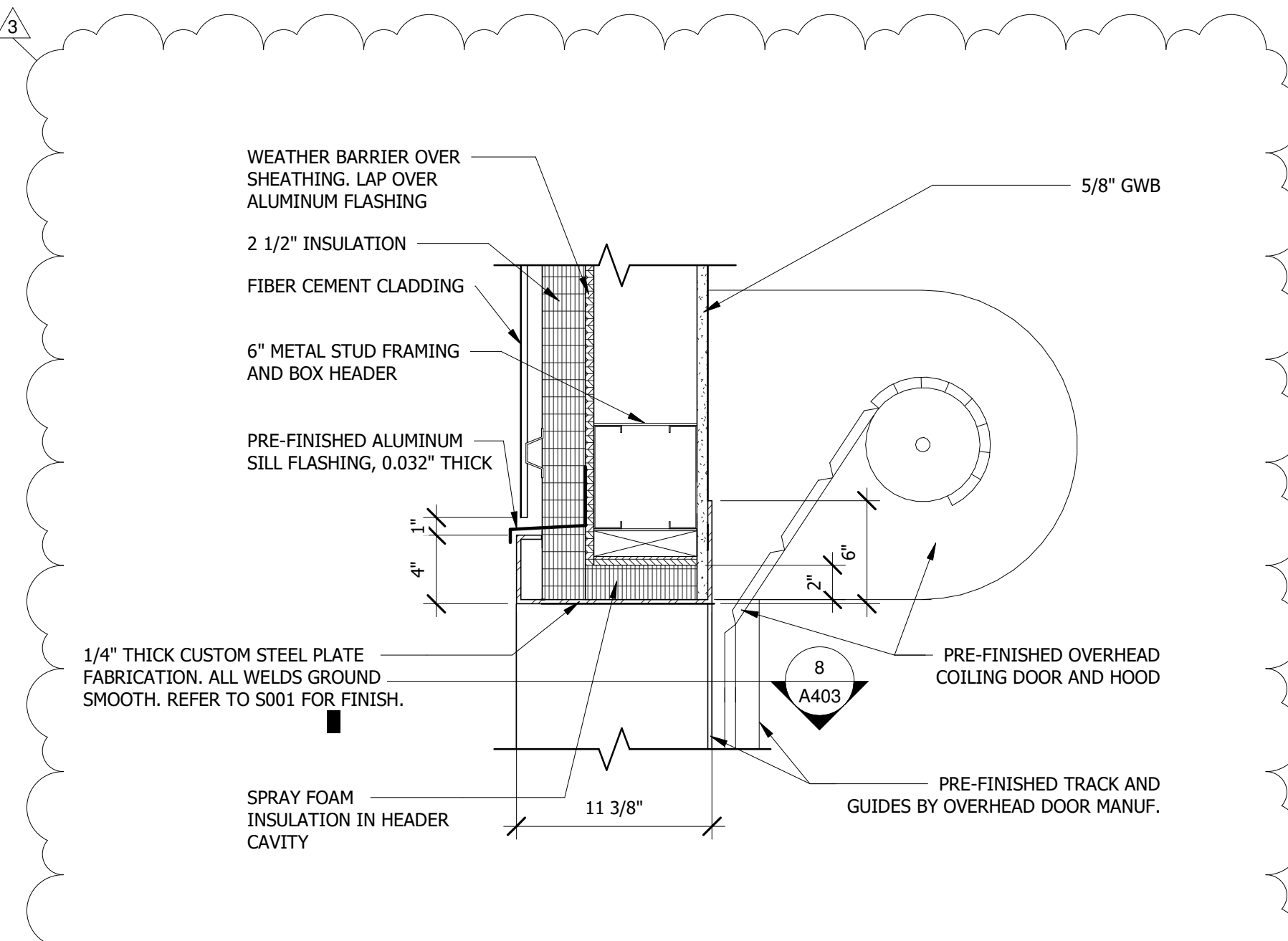
6 Door Threshold Detail
1 1/2" = 1'-0"



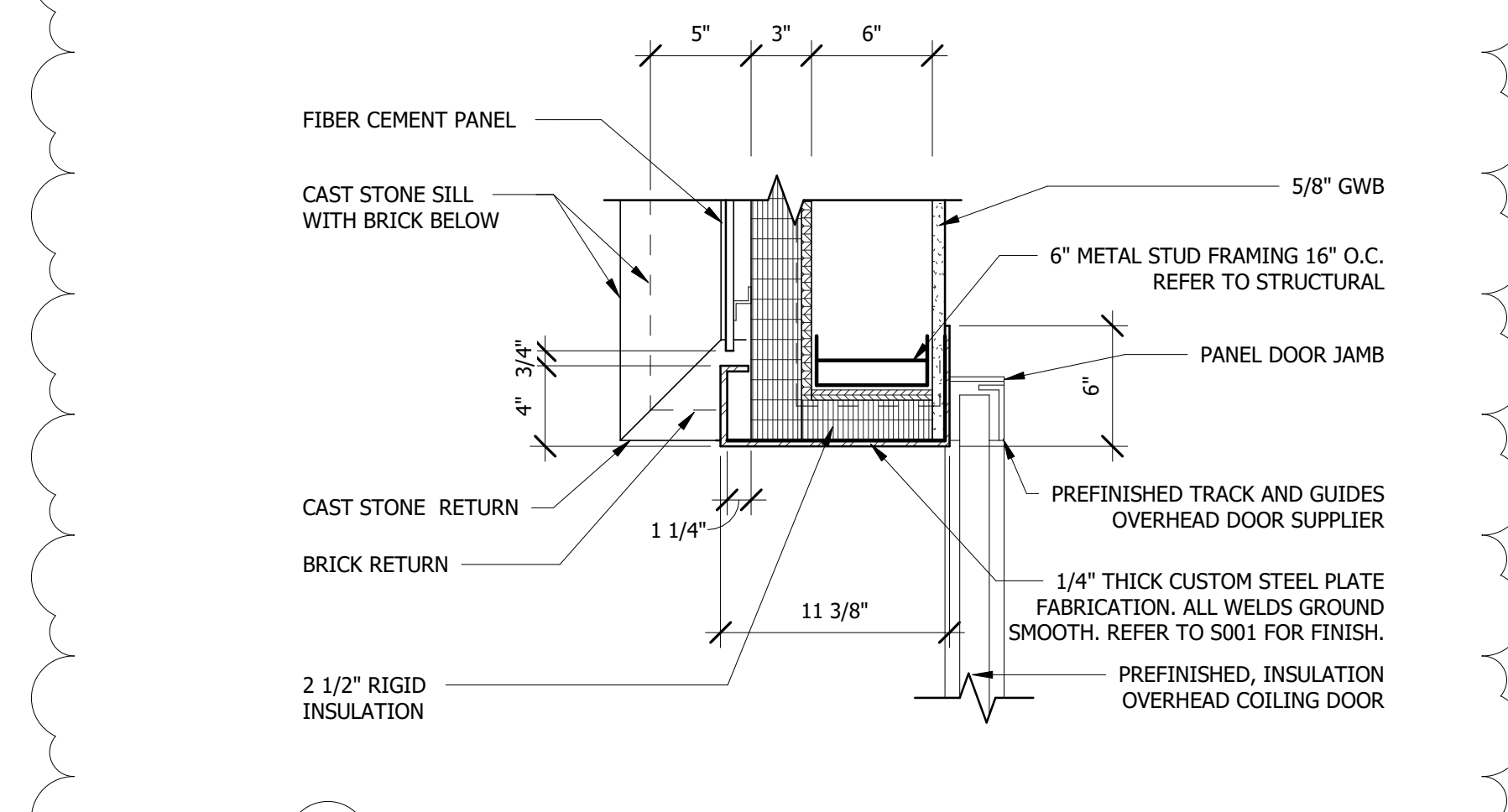
5 Section At Corridor Bulkhead
1" = 1'-0"



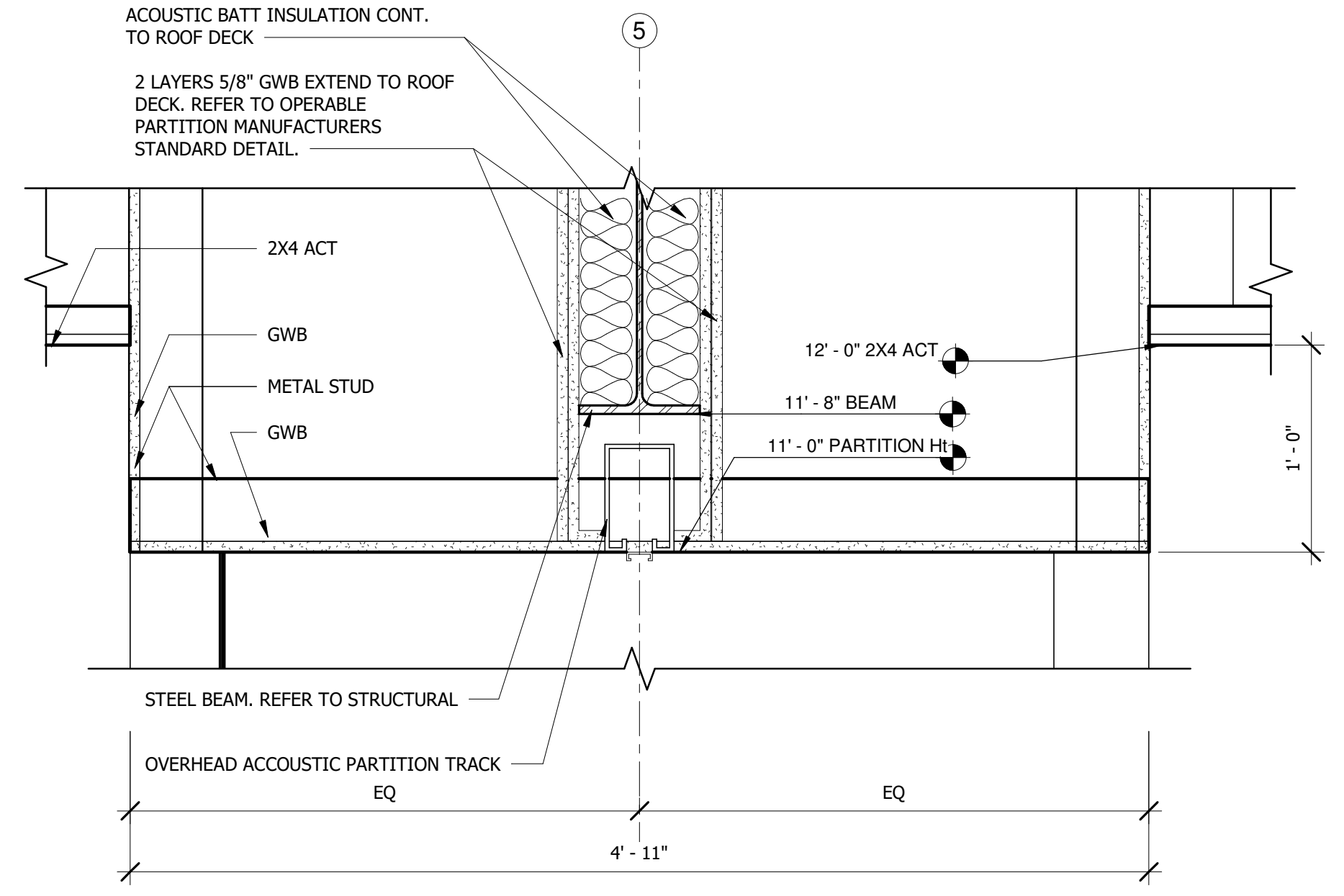
10 Acoustic Door Partition Jamb
1 1/2" = 1'-0"



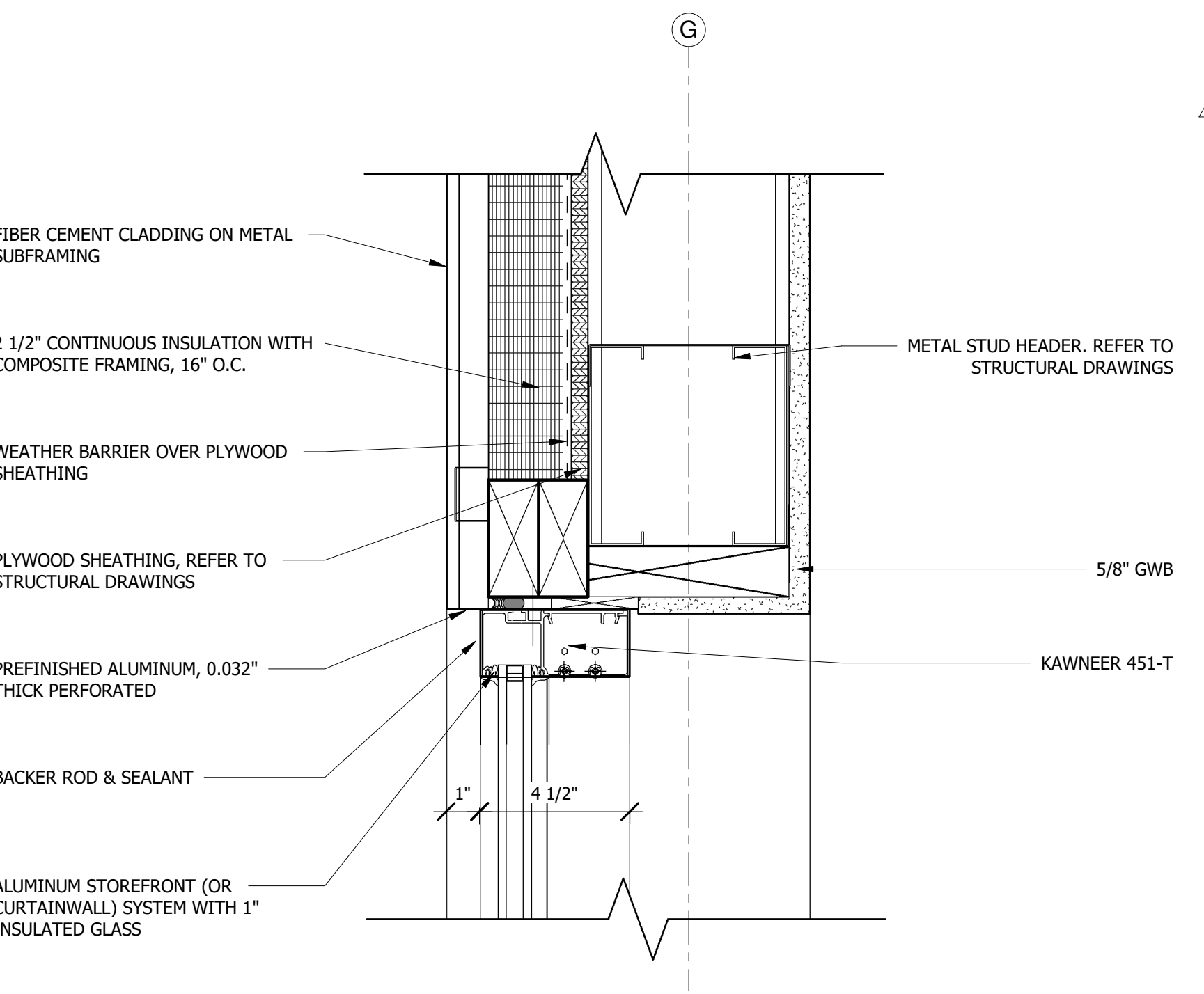
9 Bus Bay North Wall Coiling Door Head
1 1/2" = 1'-0"



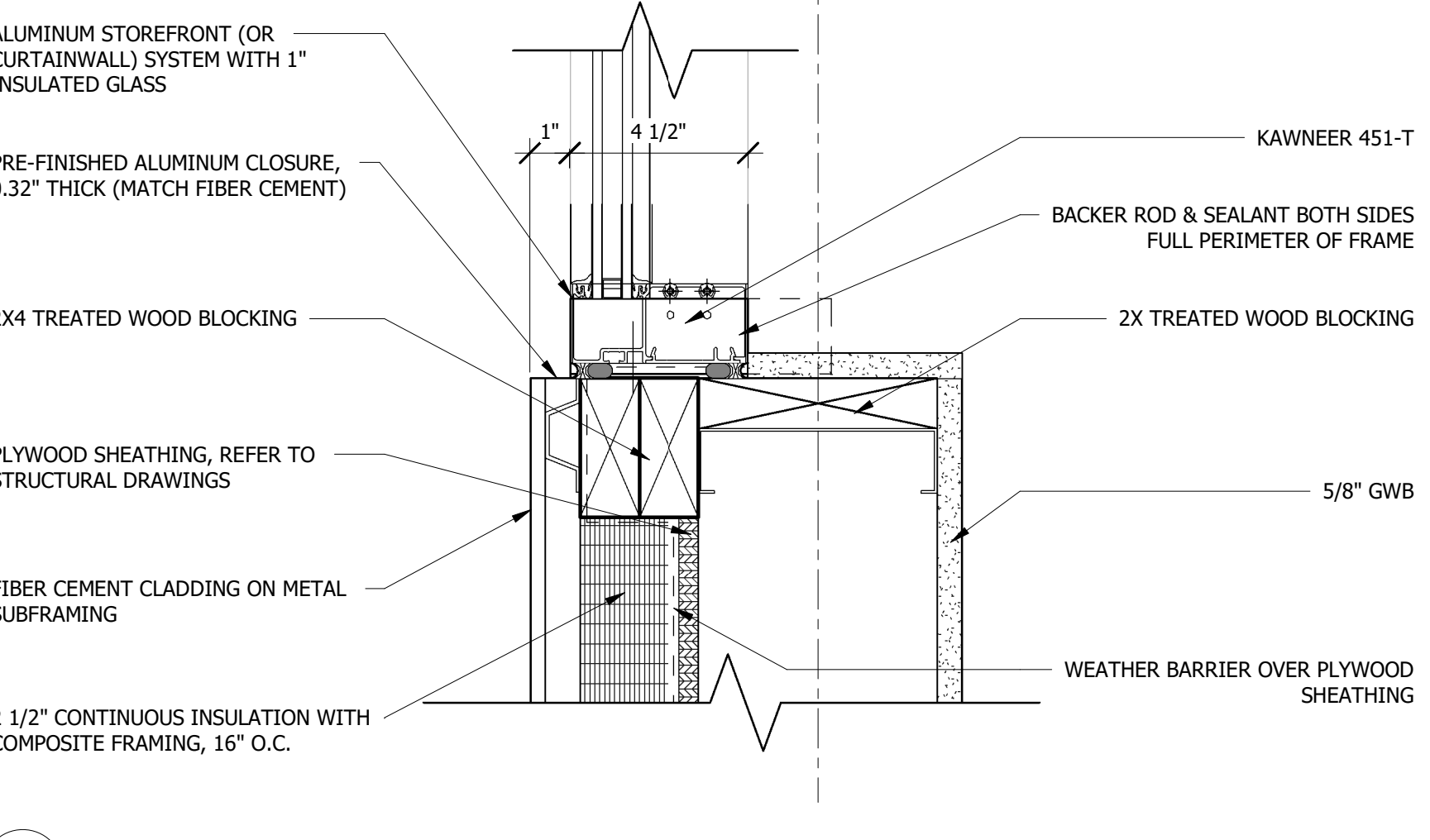
8 Coiling Door Jamb
1 1/2" = 1'-0"



13 Wall Section - Acoustic Door Partition
1 1/2" = 1'-0"



12 AL Head Exterior Fiber Cement
3" = 1'-0"

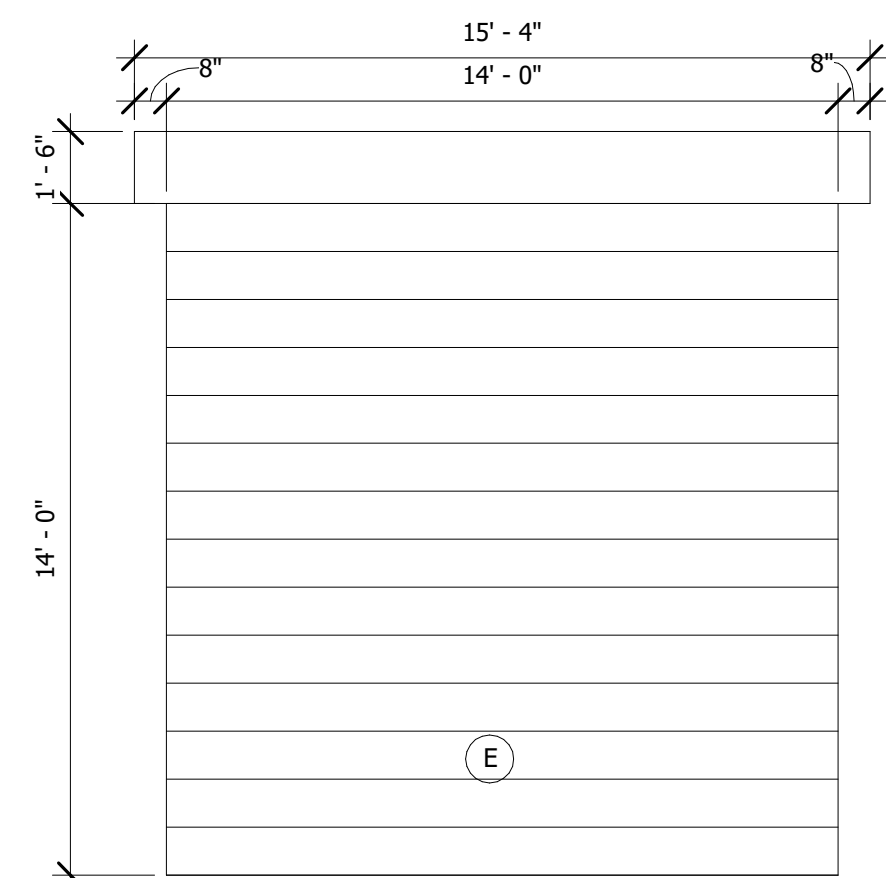


11 AL Jamb Exterior Fiber Cement
3" = 1'-0"

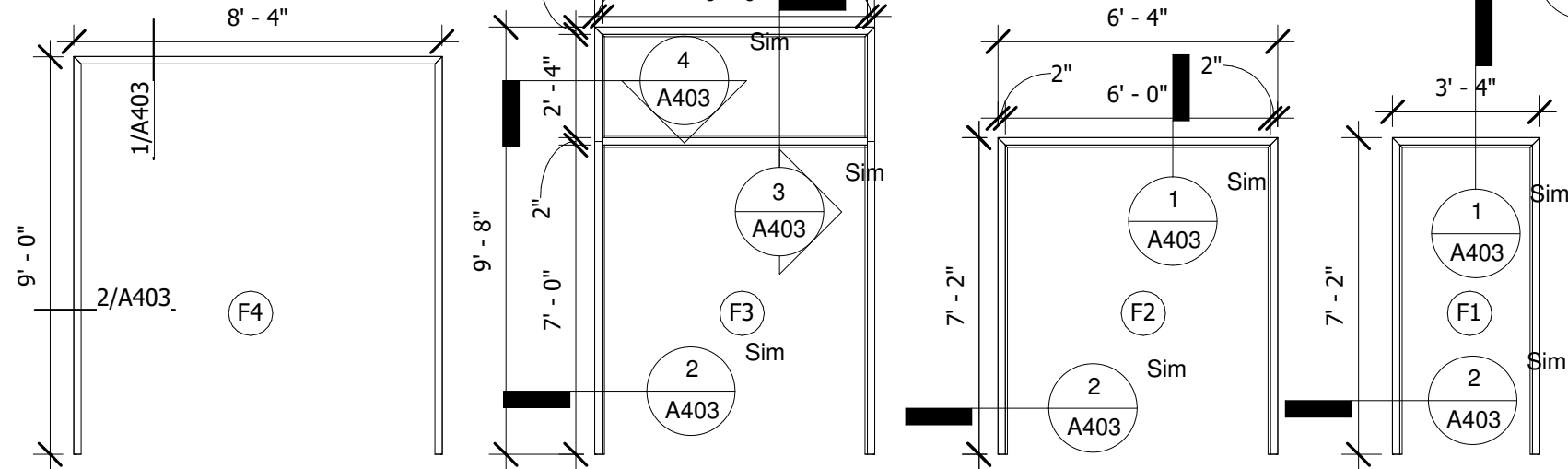
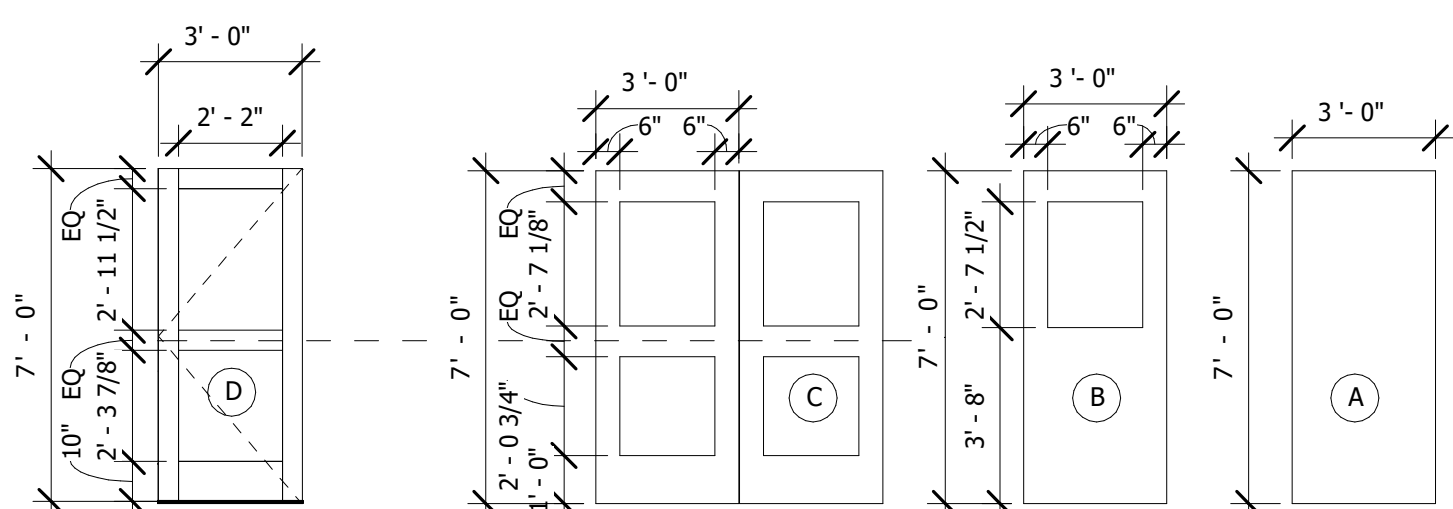
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DOOR SCHEDULE

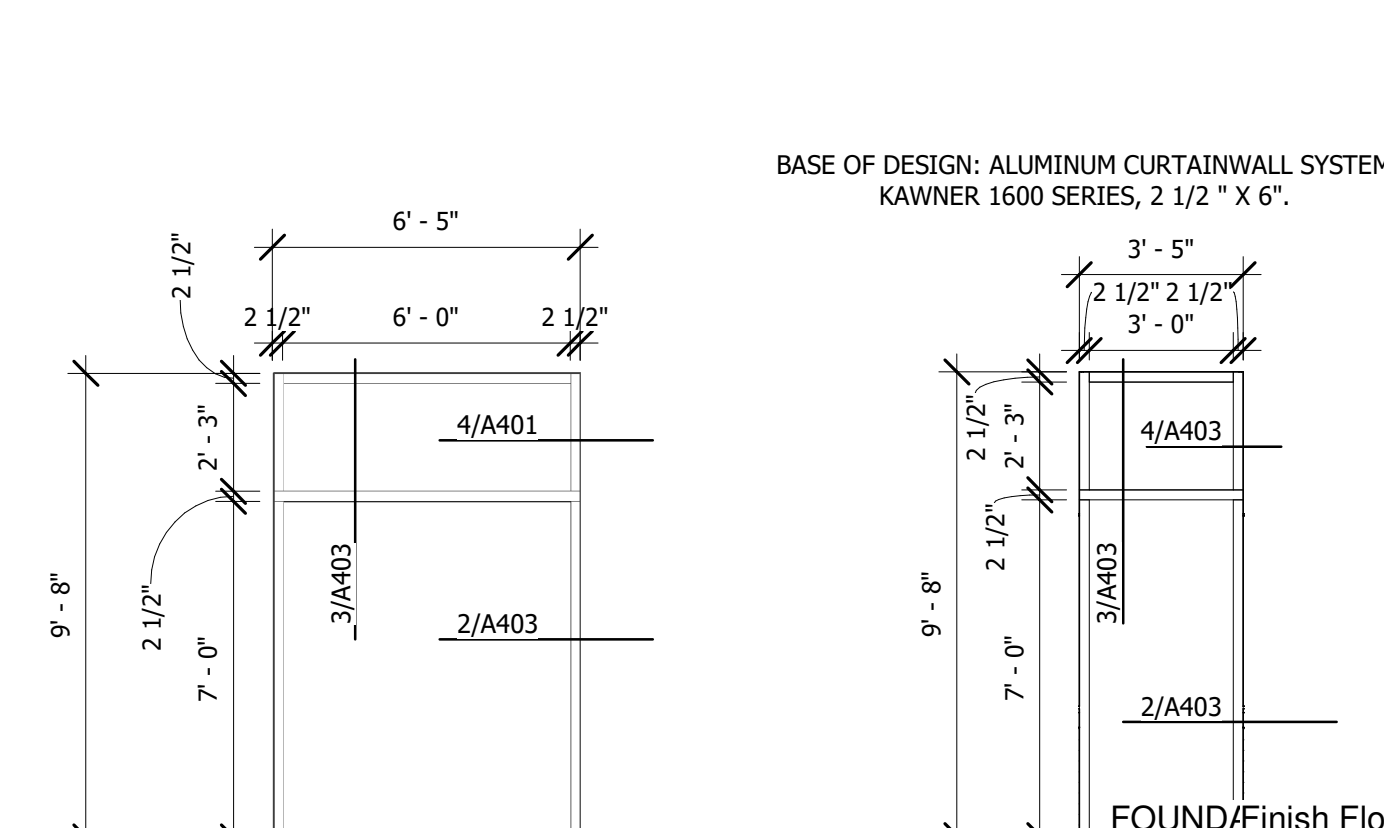
DOOR #	ROOM	PANEL QTY.	DOOR SIZE			COMPOSITION		FRAME				H.W. SET	REMARK	NOTE		
			WIDTH	HEIGHT	ELEV.	MAT.	FINISH	GLASS	ELEV.	MAT.	FINISH				HEAD	JAMB
100A	VESTIBULE	2	6'-0"	7'-0"	D	AL	AL	G2	F6	AL	AL	6/A401	---	6/A403	1.0	SIGNAGE BY OWNER
100B	CORRIDOR	2	6'-0"	7'-0"	D	AL	AL	G2	F9	AL	AL	12/A401	11/A401	---	3.0	SIGNAGE BY OWNER
101A	SECURITY OFFICE	1	3'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	6.0	SIGNAGE BY OWNER
102A	SHARED OFFICE	1	3'-0"	7'-0"	B	WD	ST-1	G1	F1	HM	PT-2	1/A403	2/A403	---	6.0	SIGNAGE BY OWNER
103A	TRAINING ROOM	2	6'-0"	7'-0"	B	WD	ST-1	G1	F2	HM	PT-2	1/A403	2/A403	---	10.0	SIGNAGE BY OWNER
103B	TRAINING ROOM	1	3'-0"	7'-0"	B	WD	ST-1	G1	F1	HM	PT-2	1/A403	2/A403	---	9.0	SIGNAGE BY OWNER
104A	OFFICE	1	3'-0"	7'-0"	B	WD	ST-1	G1	F1	HM	PT-2	1/A403	2/A403	---	6.0	SIGNAGE BY OWNER
105A	STORAGE	1	3'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	7.1	SIGNAGE BY OWNER
106A	SIM ROOM	2	6'-0"	7'-0"	B	WD	ST-1	---	F2	HM	PT-2	1/A403	2/A403	---	11.0	SIGNAGE BY OWNER
107A	TRAINING ROOM	1	3'-0"	7'-0"	B	WD	ST-1	G1	F1	HM	PT-2	1/A403	2/A403	---	9.0	SIGNAGE BY OWNER
108A	DISPATCH / IT	1	3'-0"	7'-0"	B	WD	ST-1	G1	F1	HM	PT-2	1/A403	2/A403	---	6.0	SIGNAGE BY OWNER
109A	TRAINING ROOM	1	3'-0"	7'-0"	B	WD	ST-1	G1	F1	HM	PT-2	1/A403	2/A403	---	9.0	SIGNAGE BY OWNER
110A	BREAK RM.	0	8'-0"	8'-10"	---	---	---	---	F4	HM	PT-2	1/A403	2/A403	---	N/A	SIGNAGE BY OWNER
111A	MEN'S	1	3'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	4.0	SIGNAGE BY OWNER
112A	LACTATION	1	3'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	5.0	SIGNAGE BY OWNER
113A	WOMEN'S	1	3'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	4.0	SIGNAGE BY OWNER
114A	RR	1	3'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	5.0	SIGNAGE BY OWNER
115A	MECHANICAL	2	6'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	8.0	SIGNAGE BY OWNER
116A	ELECTRICAL	1	3'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	7.0	SIGNAGE BY OWNER
118A	WATER	1	3'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	7.0	SIGNAGE BY OWNER
119A	CORRIDOR	1	3'-0"	7'-0"	D	AL	AL	G2	F8	AL	AL	12/A403	7/A403	6/A403	2.0	SIGNAGE BY OWNER
120A	STORAGE	2	6'-0"	7'-0"	A	WD	ST-1	---	F2	HM	PT-2	1/A403	2/A403	---	8.0	SIGNAGE BY OWNER
121A	BUS TRAINING BAY	2	6'-0"	7'-0"	C	WD	ST-1	G1	F3	HM	PT-2	3/A403	2.8 & 4/A403	---	10.0	SIGNAGE BY OWNER
121C	BUS TRAINING BAY	1	14'-0"	15'-1"	E	STL	---	---	---	---	---	---	---	---	12.0	OVERHEAD COILING DOOR
123A	STORAGE	2	6'-0"	7'-0"	A	WD	ST-1	---	F2	HM	PT-2	1/A403	2/A403	---	8.0	SIGNAGE BY OWNER
125A	CUSTODIAL	1	3'-0"	7'-0"	A	WD	ST-1	---	F1	HM	PT-2	1/A403	2/A403	---	7.1	SIGNAGE BY OWNER



Door Elevations
1/4" = 1'-0"

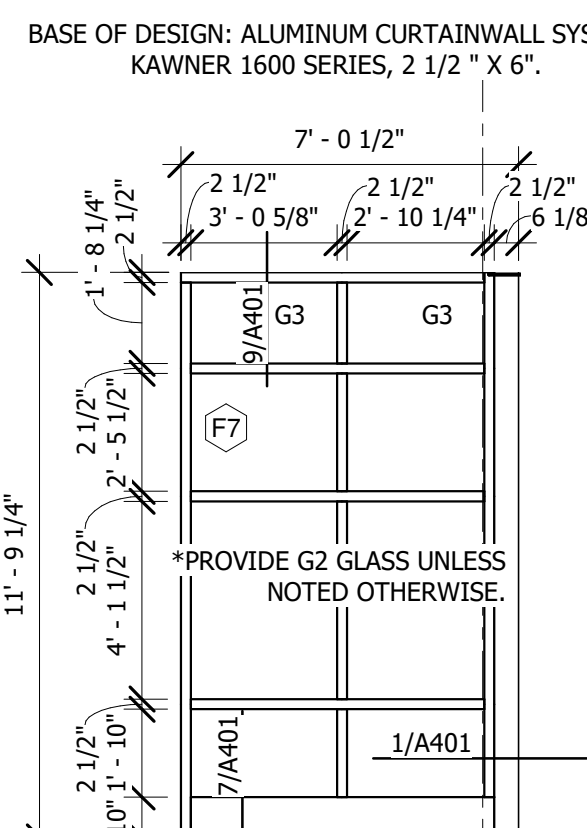


Hollow Metal Frame Elevations
1/4" = 1'-0"

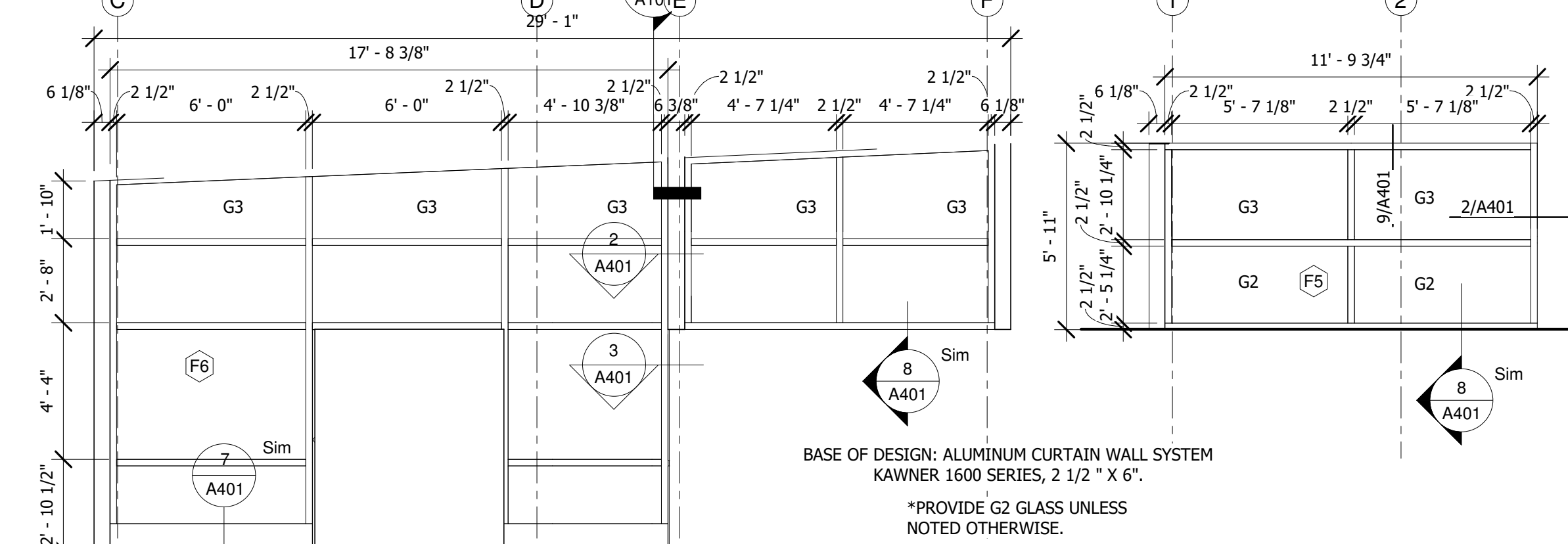


12 Frame Type 'F9'
1/4" = 1'-0"

11 Frame Type 'F8'
1/4" = 1'-0"

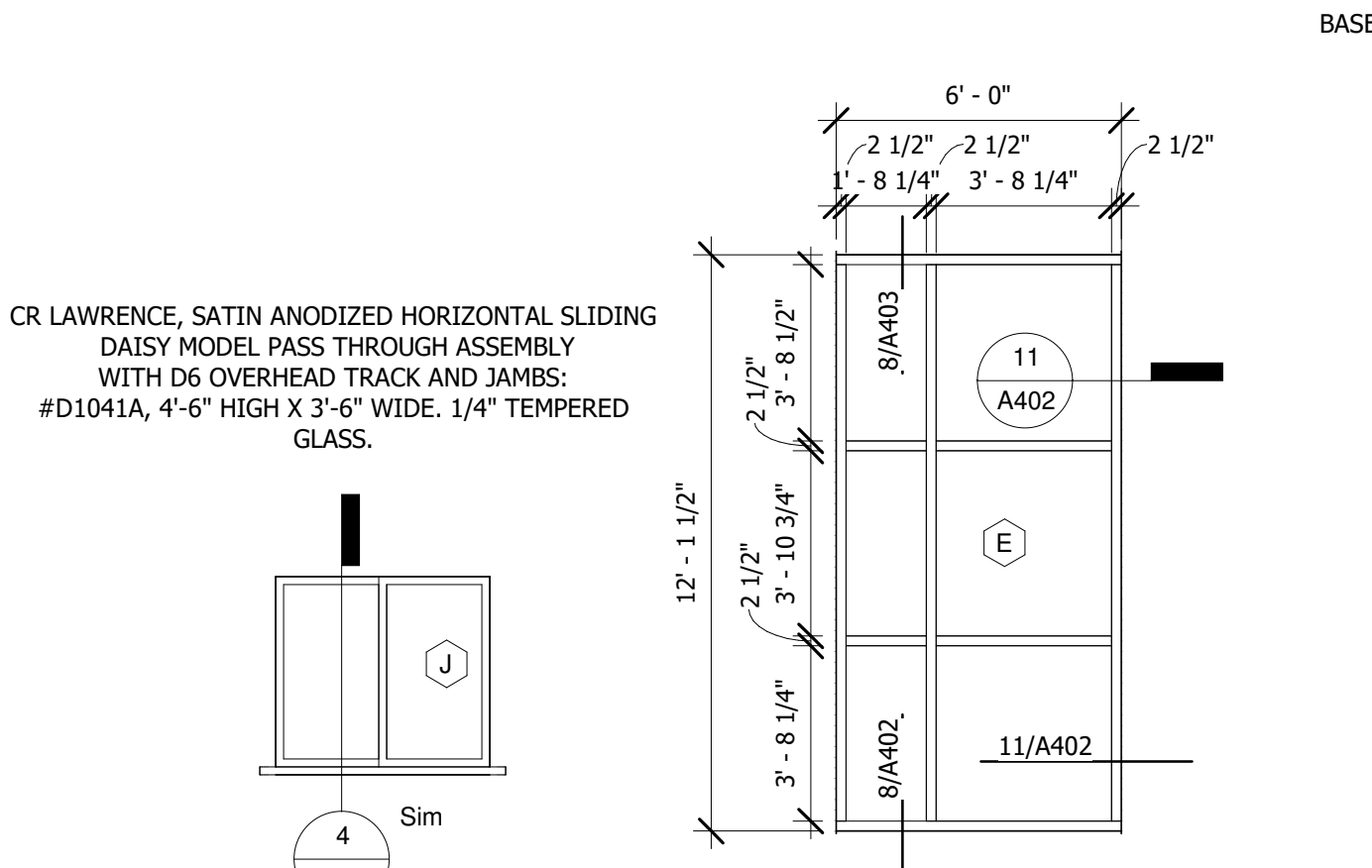


10 Frame Type 'F7'
1/4" = 1'-0"



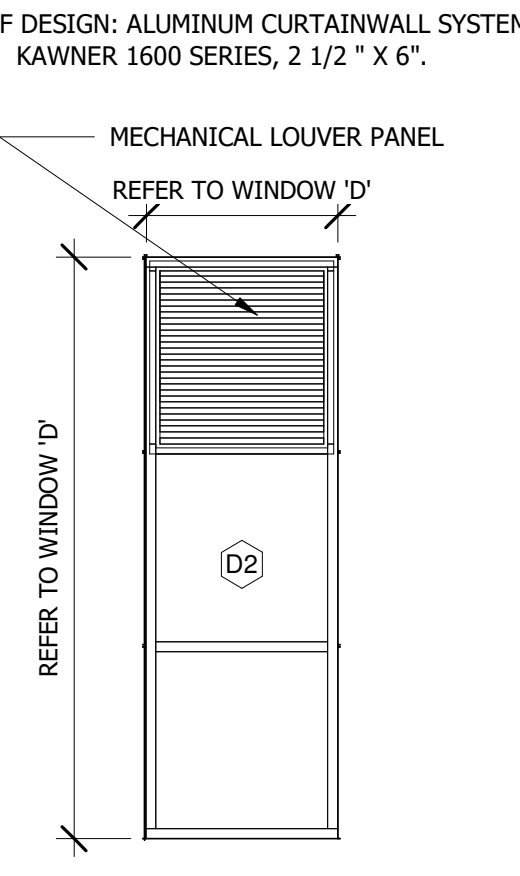
9 Frame Type 'F6'
1/4" = 1'-0"

8 Frame Type 'F5'
1/4" = 1'-0"

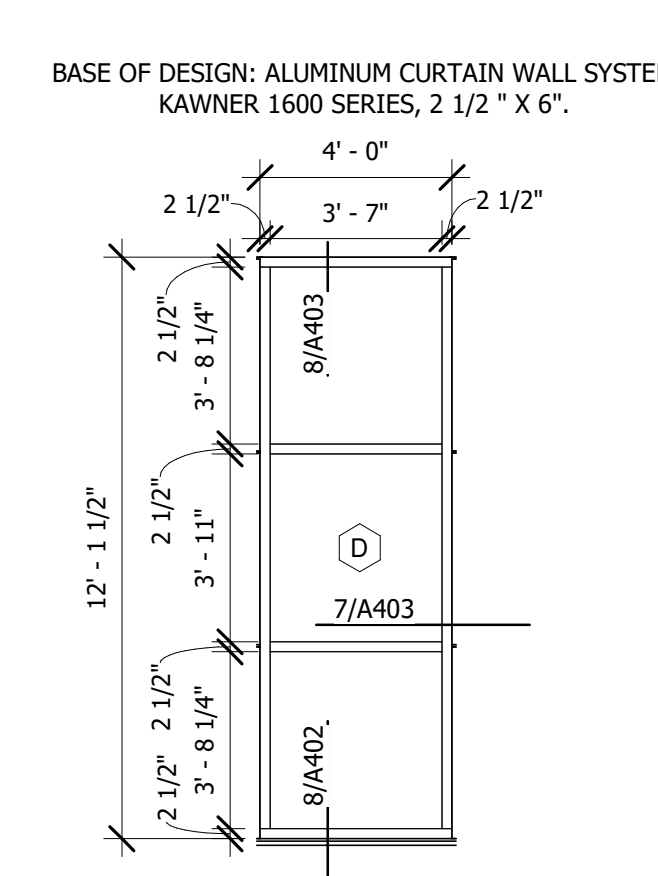


7 Window F
1/4" = 1'-0"

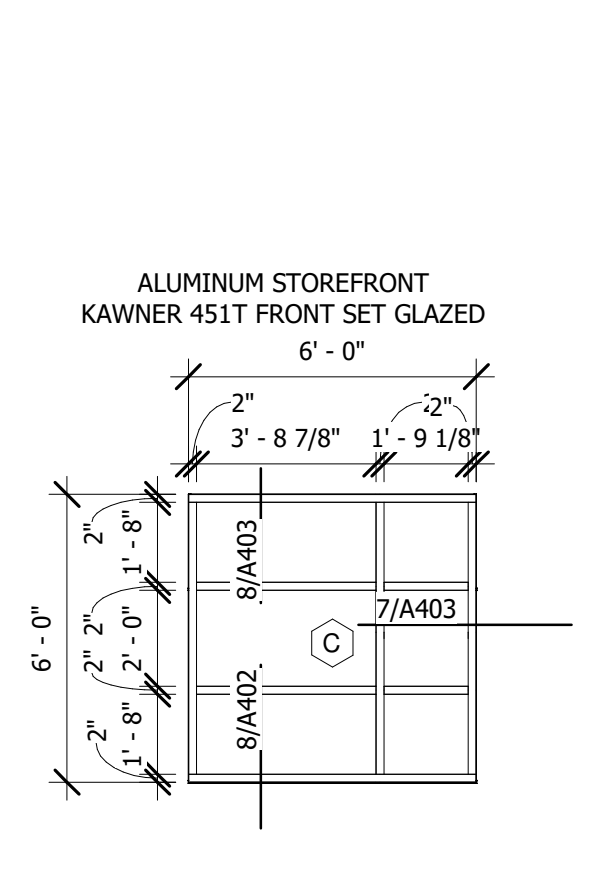
6 Window E
1/4" = 1'-0"



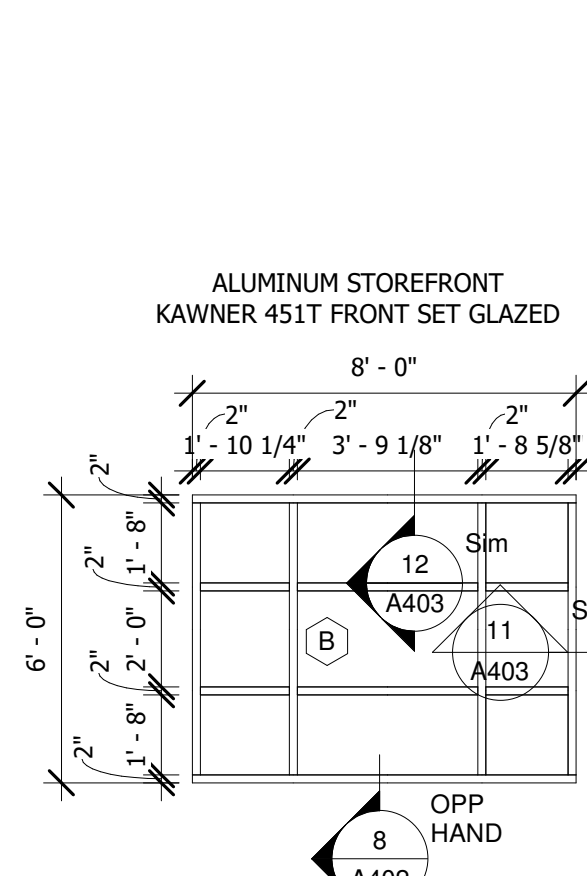
5 Window D2
1/4" = 1'-0"



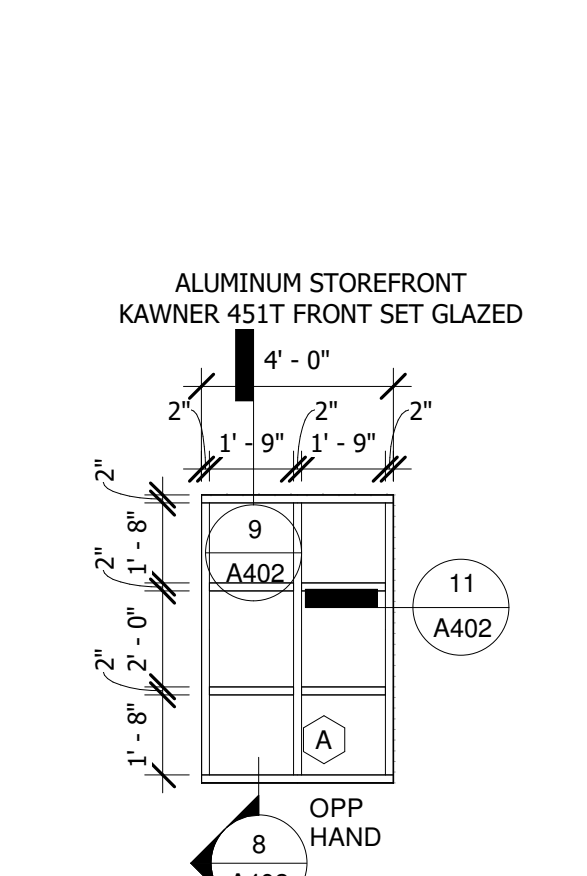
4 Window D
1/4" = 1'-0"



3 Window C
1/4" = 1'-0"



2 Window B
1/4" = 1'-0"



1 Window A
1/4" = 1'-0"

GENERAL DOOR FRAME AND HARDWARE NOTES:

- A. THIS DOOR SCHEDULE IS FURNISHED TO ASSIST THE CONTRACTOR WITH PROVIDING A COMPLETE DOOR, FRAME AND HARDWARE PACKAGE. DO NOT CONSIDER IT TO BE ENTIRELY INCLUSIVE. CAREFULLY EXAMINE THE DRAWINGS (FLOOR PLANS AND DETAILS) AND SPECIFICATIONS TO DETERMINE THE EXTENT OF DOOR AND FRAME QUANTITIES REQUIRED (INCLUDING INTERIOR WINDOW / SIDELIGHT OPENINGS). SHOULD ANY PARTICULAR DOOR, FRAME OR OTHER OPENING SHOWN IN THE DRAWINGS BE INADVERTENTLY OMITTED FROM THIS SCHEDULE, SUPPLY SAME AS REQUIRED FOR SIMILAR OPENINGS.
- B. ALL EXTERIOR DOORS TO RECEIVE THRESHOLD, WEATHERSTRIPPING, SEALS AND GASKETS REQUIRED FOR A WEATHERTIGHT SEAL.
- C. ALL INTERIOR DOORS TO RECEIVE HINGES PER SPECIFICATIONS.
- D. ALL DOOR FRAMES TO RECEIVE MUTES.
- E. THE HINGE SIDE OF ALL INTERIOR DOORS FRAMES SHALL BE LOCATED 4" FROM THE ADJACENT WALL CONSTRUCTION, UNLESS NOTED OTHERWISE.
- F. LOCATE AND INSTALL SAFETY GLAZING PER STATE AND LOCAL BUILDING CODES AND ORDINANCES.
- G. ALL LAMINATED GLAZING TO BE 1/4" THICK, UNLESS NOTED OTHERWISE.
- H. ALL DOORS ARE 1 3/4" THICK, UNLESS NOTED OTHERWISE.
- I. WOOD AND METAL STUDS, FURRING AND SHIMS ARE SHOWN FOR GRAPHIC REPRESENTATION ONLY, AND ARE NOT TO BE CONSIDERED ALL-INCLUSIVE NOR INDICATIVE OF ACTUAL CONSTRUCTION AND / OR FIELD CONDITIONS.
- J. ALL SOLID CORE WOOD DOORS SHALL BE FACTORY FINISHED, STAIN COLOR AS SELECTED BY ARCHITECT.
- K. ALL FRAME WIDTHS ARE 2-INCHES UNLESS NOTED OTHERWISE. CONTRACTOR SHALL COORDINATE FRAME DEPTH REQUIRED FOR WALL TYPES, CONDITIONS AND DETAILS.
- L. SIGNAGE BY OWNER TO COMPLY WITH 2009 ICC A117.1 - 703.3.1.1.
- M. REFER TO SPECIFICATIONS FOR DOOR HARDWARE SETS.

MATERIAL DESIGN NOTES:

- DOORS:**
 - HM - HOLLOW METAL DOOR
 - AL - ALUMINUM - CLASSIC BRONZE FINISH
 - WD - SOLID CORE WOOD DOOR - RED OAK VENEER
 - STL - PRE-FINISHED STEEL
 - FRAMES:**
 - HM - HOLLOW METAL FRAME
 - AL - ALUMINUM - CLASSIC BRONZE FINISH
 - FINISH:**
 - ST-1 - FACTORY STAIN WITH TRANSPARENT FINISH
 - PT-2 - PAINT, REFER TO ROOM FINISH MATERIAL LEGEND FOR COLOR
 - GLAZING:**
 - G1 - 1/4" LAMINATED GLASS
 - G2 - 1" INSULATED GLASS WITH LOW E
 - G3 - 1" INSULATED SPANDREL GLASS
- REMARKS: REFER TO FRAME ELEVATION FOR DETAIL REFERENCE.



IndyGo
NEW TRAINING FACILITY
1100 West 21st Street
Indianapolis, IN 46202
IFB 19-12-337

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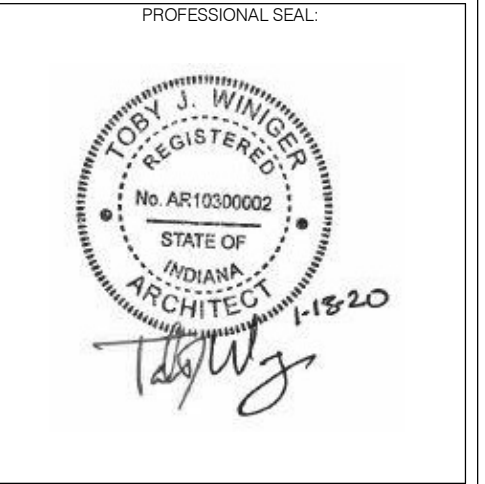
REVISION SCHEDULE
3 Addendum 3 3/2/2020

DATE ISSUED: JANUARY 13, 2020
DRAWN BY: PS
CHECKED BY: BF

DRAWING TITLE:
DOOR & FRAME ELEVATIONS

SHEET NUMBER:
A600

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PROJECT NUMBER:
180024.05

NO.	DESCRIPTION	DRAWN BY	DATE ISSUED
3	Addendum 3		3/2/2020

DATE ISSUED:
JANUARY 13, 2020

DRAWN BY:
PS

CHECKED BY:
BF

DRAWING TITLE:
ROOM FINISH SCHEDULE

SHEET NUMBER:
A601

ROOM FINISH SCHEDULE NOTES

GENERAL FINISH SCHEDULE NOTES

- A. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE CONTRACTOR / INSTALLER HAS INSPECTED AND ACCEPTED THE SUBSTRATE FOR RECEIVING THE WORK. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY UNSATISFACTORY SUBSTRATE ONCE THE FINISH WORK HAS PROCEEDED.
- B. USE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS AND PROCEDURES FOR ALL SPECIFIED FINISHES.
- C. PROVIDE JOHNSONITE TRANSITION STRIPS WHERE DISSIMILAR FLOORING MATERIALS MEET UNLESS OTHERWISE NOTED. TRANSITION STRIPS AT DOORS SHALL BE LOCATED UNDER THE CENTER OF THE DOOR WHILE IN THE CLOSED POSITION.
- D. ALL BULKEADS AND CEILING TO BE PAINTED AS NOTED ON THE ROOM FINISH SCHEDULE IN A FLAT FINISH.
- E. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED P-2 IN A SEMI-GLOSS FINISH.

ROOM FINISH MATERIAL LEGEND

FLOORING

- CPT-1 MULTI-LEVEL PATTERN LOOP
MANUFACTURER: PATCRAFT
COLLECTION: GRADIENT FORM
COLOR: FOCUS 00450
STYLE: RISE
TYPE: MODULAR
TILE DIMENSION: 12X48
INSTALLATION: ASHLAR
- CPT-2 WALK-OFF CARPET
MANUFACTURER: PATCRAFT
STYLE: ACCESS 10533
COLOR: MEANDER 005770
COLLECTION: WALK FORWARD
TILE DIMENSION: 24 X 24
INSTALLATION: BASKETWEAVE
- LVT-1 LUXURY VINYL TILE
MANUFACTURER: PATCRAFT
STYLE NAME / NUMBER: ADMIX / 1347V
COLOR: OYSTER 00530
TILE DIMENSION: 12 X 12
INSTALLATION: BASKETWEAVE
- LVT-2 LUXURY VINYL TILE
MANUFACTURER: PATCRAFT
STYLE NAME / NUMBER: ADMIX / 1347V
COLOR: SHARK'S TOOTH 00570
TILE DIMENSION: 12 X 12
INSTALLATION: BASKETWEAVE
- RES-1 EPOXY RESINOUS FLOORING
MANUFACTURER: GENERAL POLYMERS
STYLE: DECORATIVE MOSAIC
COLOR 'D' #TL-85D

WALL TILE

- WT-1 PORELAIN TILE
MANUFACTURER: DAL TILE
STYLE: FORMULA
COLOR: AXIOM SILVER FM94
TILE DIMENSION: 24 X 24
FINISH: UNPOLISHED

WALL BASE

- VB-1 4" HIGH VINYL COVE BASE
MANUFACTURER: JOHNSONITE
COLOR: 92 BLUE LAGOON
- VB-2 6" HIGH VINYL COVE BASE
MANUFACTURER: JOHNSONITE
COLOR: 92 BLUE LAGOON

PAINT

- P-1 PAINT
1 COAT PRIMER, 2 FINISH COATS
MANUFACTURER: SHERWIN WILLIAMS
COLOR: REPOSE GRAY SW7015
FINISH: EGGSHELL
- P-2 PAINT
1 COAT PRIMER, 2 FINISH COATS
MANUFACTURER: SHERWIN WILLIAMS
COLOR: WATERLOO SW9141
FINISH: EGGSHELL

FLOOR TRANSITIONS

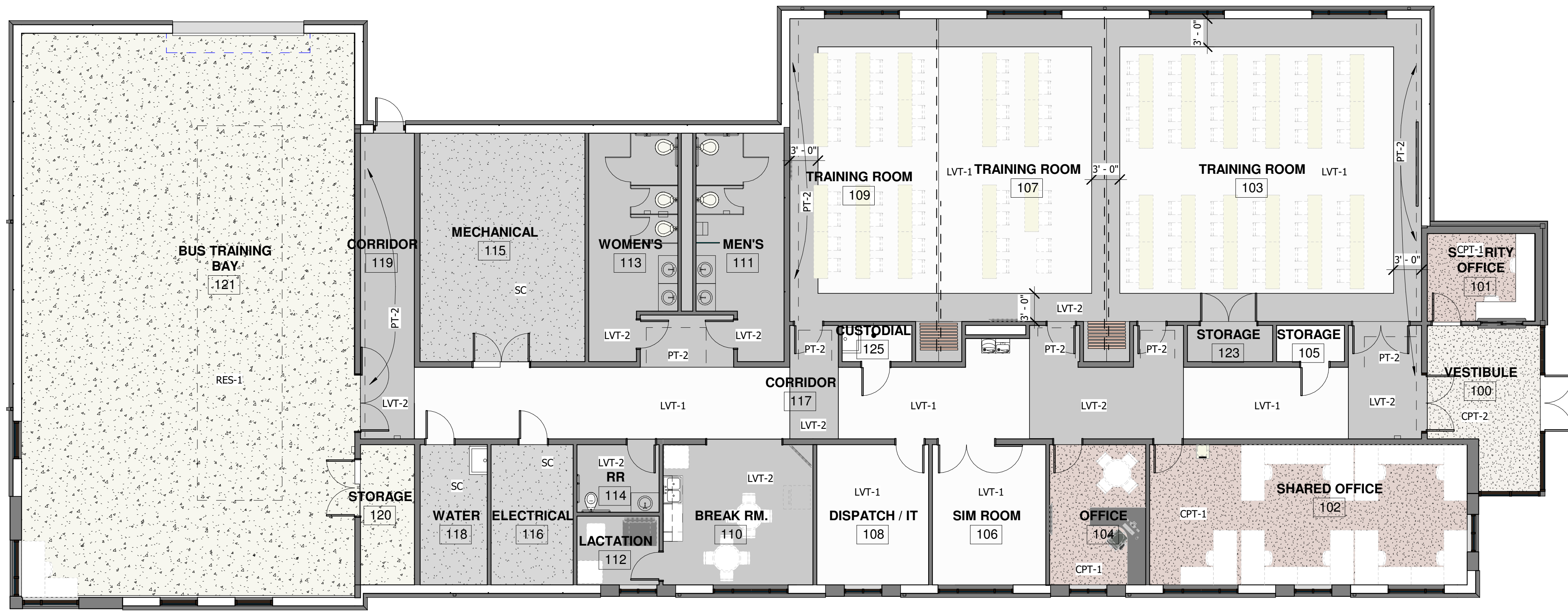
- TS-1 VCT TO CARPET
MANUFACTURER: JOHNSONITE
COLOR/MATERIAL: VINYL TO MATCH WALL BASE
TYPE: 1/8" REDUCER WITH BEVELED EDGE
- TS-2 VCT TO CARPET
MANUFACTURER: SCHLUTER SYSTEMS
STYLE: RENO-TK
FINISH: BRUSHED STAINLESS STEEL

COUNTERTOPS

- SS-1 SOLID SURFACE
MANUFACTURER: CORIAN
COLOR: FLINT
COLLECTION: THE COLORS OF DUPONT (DARK COLORS)

CABINETS

- PL-1 PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR: TAN SOAPSTONE 4887-38
FINISH: FINE VELVET FINISH



1 Finish Plan
1/8" = 1'-0" REF: 3 A400

ROOM FINISH SCHEDULE

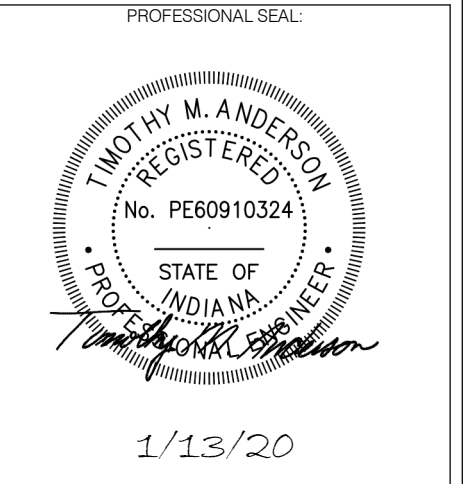
NO.	ROOM NAME	FLOOR MAT.	BASE	WALLS				CLNG. MAT.	REMARKS	MINIMUM ASTM E 84 FIRE CLASS RATING (MEET OR EXCEED)
				NORTH	EAST	SOUTH	WEST			
100	VESTIBULE	CPT-2	VB-2	P-1	-	P-1	P-1	GWB (PT-1)	DO NOT INSTALL BASE ON CURTAINWALL SYSTEM.	B
101	SECURITY OFFICE	CPT-1	VB-1	P-1	P-1	P-1	P-1	2X2 APC		C
102	SHARED OFFICE	CPT-1	VB-1	P-1	P-1	P-1	P-1	2X2 APC		C
103	TRAINING ROOM	LVT-1/2	VB-2	P-1	P-2	P-1	---	2X2 APC		C
104	OFFICE	CPT-1	VB-1	P-1	P-1	P-1	P-1	2X2 APC		C
105	STORAGE	LVT-1	VB-1	P-1	P-1	P-1	P-1	2X2 APC		C
106	SIM ROOM	LVT-1	VB-1	P-1	P-1	P-1	P-1	2X2 APC		C
107	TRAINING ROOM	LVT-1/2	VB-1	P-1	---	P-1	---	2X2 APC		C
108	DISPATCH / IT	LVT-1	VB-1	P-1	P-1	P-1	P-1	2X2 APC		C
109	TRAINING ROOM	LVT-1/2	VB-1	P-1	---	P-1	P-1	2X2 APC		C
110	BREAK RM.	LVT-2	VB-1	P-1	P-1	P-1	P-2	2X2 APC		C
111	MEN'S	LVT-2	LVT-1	WT-1	WT-1	WT-1	WT-1	GWB (PT-1)		C
112	LACTATION	CPT-1	VB-1	P-1	P-1	P-1	P-1	2X2 APC		C
113	WOMEN'S	LVT-2	LVT-1	WT-1	WT-1	WT-1	WT-1	GWB (PT-1)	REFER TO DETAIL 16/A400 FOR COVE BASE.	C
114	RR	LVT-2	LVT-1	WT-1	WT-1	WT-1	WT-1	GWB (PT-1)	REFER TO DETAIL 16/A400 FOR COVE BASE.	C
115	MECHANICAL	SC	VB-1	P-1	P-1	P-1	P-1	EXPOSED	PROVIDE SEALED CONCRETE FLOOR.	C
116	ELECTRICAL	SC	VB-1	P-1	P-1	P-1	P-1	EXPOSED	PROVIDE SEALED CONCRETE FLOOR.	C
117	CORRIDOR	LVT-1/2	VB-2	P-1/P-2	P-1/P-2	P-1	P-1/P-2	2X2 APC	REFER TO FINISH PLAN FOR FLOOR PATTERNS AND LOCATION FOR ACCENT PAINT.	B
118	WATER	SC	VB-1	P-1	P-1	P-1	P-1	EXPOSED	PROVIDE SEALED CONCRETE FLOOR.	C
119	CORRIDOR	LVT-1	VB-2	P-1	P-1	P-1	P-1	2X2 APC	REFER TO FINISH PLANS FOR ACCENT WALL	B
120	STORAGE	RES-1	RES-1	P-1	P-1	P-1	P-1	2X2 APC		C
121	BUS TRAINING BAY	RES-1	RES-1	P-1	P-1	P-1	P-1	EXPOSED		C
122	STORAGE	LVT-2	VB-1	P-1	P-1	P-1	P-1	2X2 APC		C
125	CUSTODIAL	LVT-1	VB-1	P-1	P-1	P-1	P-1	2X2 APC		C

SENSITIVE SECURITY INFORMATION



IndyGo
NEW TRAINING FACILITY
IFB 19-12-337
Indianapolis Public Transportation Corporation
1100 West 21st Street
Indianapolis, IN 46202

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REVISION SCHEDULE			
#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	ADDENDUM 3		3/2/20

DATE ISSUED:	DRAWN BY:	CHECKED BY:
1/13/2020	RLW	TMA

DRAWING TITLE:
FIRST FLOOR HVAC AND PIPING PLANS

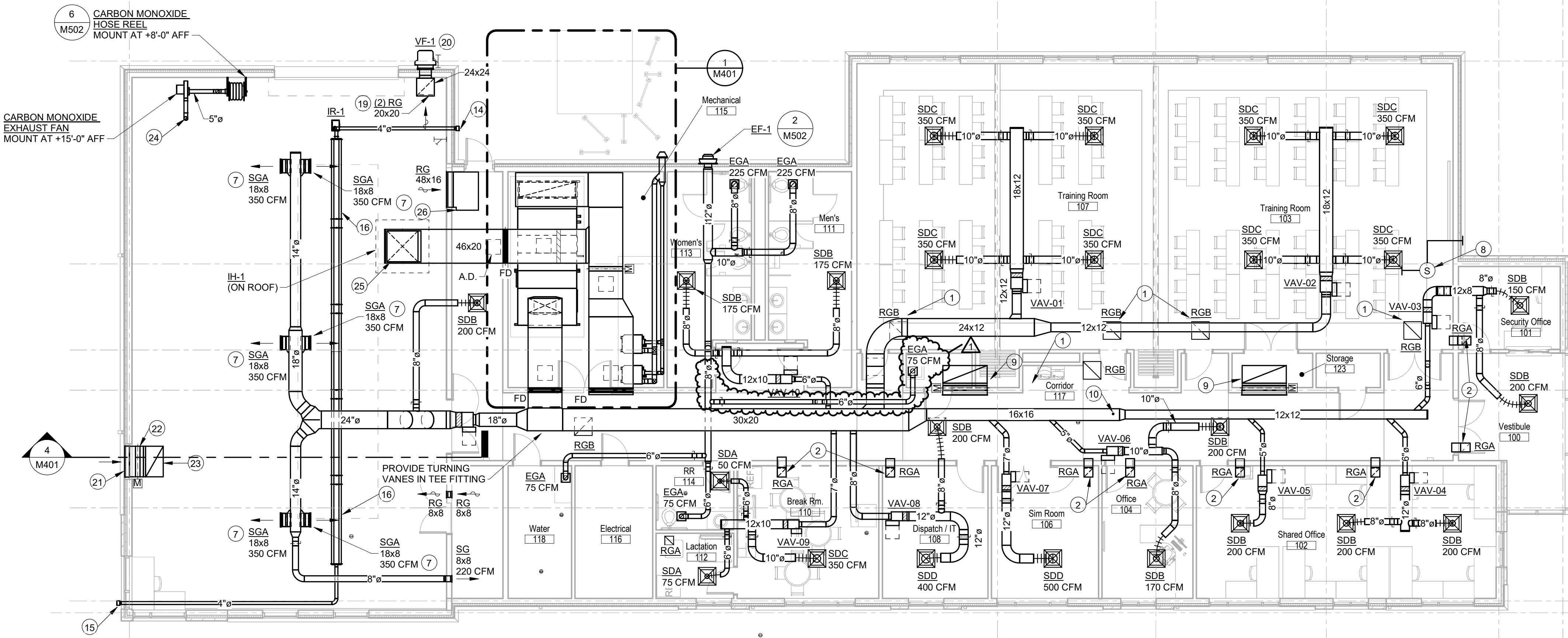
SHEET NUMBER:
M301

GENERAL NOTES:

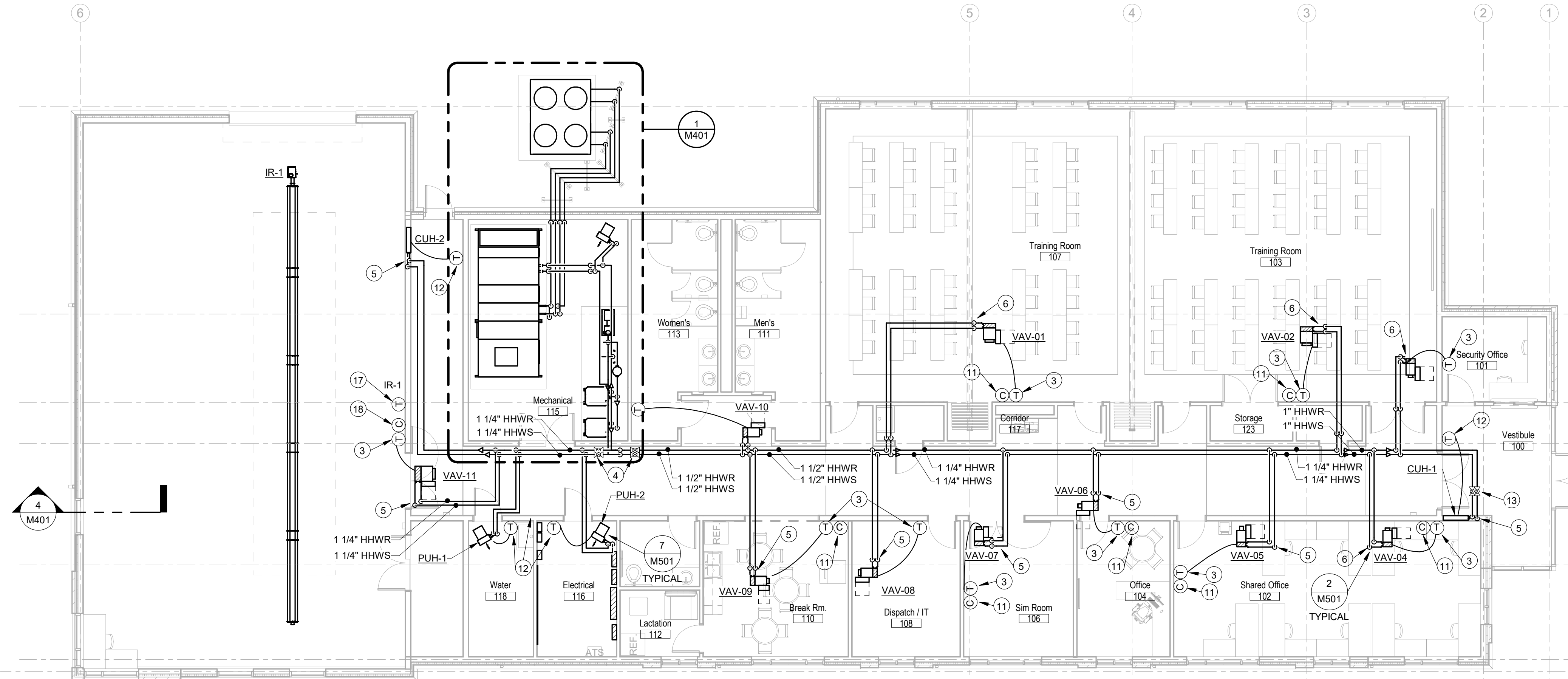
- SEE SHEET M001 FOR PROJECT GENERAL NOTES.
- PROVIDE BALANCING DAMPER ON BRANCH DUCTWORK TO EACH DIFFUSER NEAR TAKEOFF FROM MAIN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING DEVICES AND COORDINATION WITH LIGHTING DEVICES.
- PIPE RUNOUTS TO EQUIPMENT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS AND DRAIN VALVES WITH CAPPED HOSE END CONNECTIONS AT ALL LOW POINTS OF WATER PIPING SYSTEM(S). LABEL ALL DRAIN LOCATIONS.

PLAN NOTES:

- PROVIDE SOUND BOOT ON RETURN GRILLES, SEE DETAIL '1' SHEET M501 FOR MORE INFORMATION.
- PROVIDE TRANSFER GRILLE WITH SOUND BOOT THROUGH WALL ABOVE CEILING.
- PROVIDE NEW DDC THERMOSTAT TO CONTROL UNIT INDICATED.
- PROVIDE SHUT OFF VALVES WITH CAPPED 1-1/2" HHWS AND HHWR FOR FUTURE CONNECTIONS.
- TWO-WAY CONTROL VALVE. SEE DETAIL '11' ON SHEET M501.
- THREE-WAY CONTROL VALVE. SEE DETAIL '8' ON SHEET M501.
- MOUNT GRILLES ON SIDE OF ROUND DUCT AT A 45 DEGREE ANGLE DOWNWARD. REFER TO DETAIL ON DRAWING M501.
- PROVIDE INDOOR STATIC PRESSURE SENSOR INDOORS ABOVE CEILING IN AN ACCESSIBLE AND SERVICEABLE LOCATION.
- 60x24 RELIEF AIR LOUVER MOUNTED IN FACE OF CLEAR STORY ABOVE. PROVIDE LOW LEAKAGE RELIEF AIR DAMPER AND SHEET METAL ELBOW TURNED UP BEHIND LOUVER. REFER TO DETAIL '5' ON SHEET M502. FULLY INSULATE PLENUM WITH 1 1/2" FOIL FACED RIGID INSULATION.
- DUCT STATIC PRESSURE SENSOR.
- PROVIDE CO2 SENSOR.
- ELECTRIC WALL THERMOSTAT.
- PROVIDE A SET OF DRAIN DOWN VALVES WITH CAPPED HOSE END CONNECTIONS IN PIPING ABOVE CEILING.
- TERMINATE INTAKE THRU WALL WITH INTAKE CAP FURNISHED BY INFRARED MANUFACTURER. SEAL THRU WALL WEATHERTIGHT.
- TERMINATE FLUETHRU WALL WITH FLUE CAP FURNISHED BY INFRARED MANUFACTURER. SEAL THRU WALL WEATHERTIGHT.
- CENTER INFRARED RADIATION ON OVERHEAD DOOR. BOTTOM OF UNIT AT +13'-3" AFF.
- INFRARED CONTROLLER.
- CO2 SENSOR INTERLOCKED TO START VENTILATION FAN VF-1 IF CO2 LEVEL EXCEEDS 1,000 PPM.
- EXTEND 24x24 DUCT FROM VENTILATION FAN DOWN TO +1'-0" AFF. MOUNT ONE GRILLE AT 1'-2" AFF TO BOTTOM AND ANOTHER GRILLE AT +6'-0" AFF TO BOTTOM. FULLY INSULATE DUCT WITH 1-1/2" FOIL FACED RIGID INSULATION.
- MOUNT VENTILATION FAN AT +12'-0" AFF. SEE DETAIL '2' ON SHEET M501.
- 48x48 FULLY DRAINABLE WEATHER LOUVER AT +11'-9" AFF TO BOTTOM OF LOUVER. COORDINATE FINAL SIZE OF LOUVER WITH WINDOW FRAME MANUFACTURER SO THAT LOUVER FITS WITHIN WINDOW FRAME.
- 48x36 LOW LEAKAGE OUTSIDE AIR DAMPER WITH BLADE AND JAMB SEALS. PROVIDE 120 VOLT ACTUATOR WITH END SWITCH TO BE INTERLOCKED WITH VF-1.
- PROVIDE SHEETMETAL PLENUM BEHIND LOUVER. SLOPE BOTTOM OF PLENUM UPWARD. PROVIDE 48x18 OPENING ON TOP OF PLENUM. FULLY INSULATE PLENUM WITH 1-1/2" FOIL FACED RIGID INSULATION.
- EXTEND 5" DIA VEHICLE EXHAUST UP THRU ROOF. TERMINATE WITH VENT CAP FURNISHED BY VEHICLE EXHAUST SYSTEM MANUFACTURER. PROVIDE ROOF CURBS FOR DUCT PENETRATION. REFER TO DETAIL '7' ON SHEET M502.
- 42x42 UP TO IH-1 ON ROOF. ULTRA-LOW LEAKAGE DAMPER MOUNTED IN THE VERTICAL DUCT RIDER. PROVIDE 24x24" ACCESS DOOR IN DUCT TO ACCESS DAMPER. SEE DETAIL '4' ON SHEET M502.
- PROVIDE SHEETMETAL TRANSFER ELBOW DUCT ON BACK OF RETURN GRILLE. OUTLET OF ELBOW SHALL BE 30x16. LOCATE GRILLE IN FACE OF WALL SO THAT THE TRANSFER AIR DUCT IS LOCATED ABOVE THE LAY-IN CEILING IN THE ADJACENT CORRIDOR. INSULATE TRANSFER DUCT WITH 1-1/2" FOIL FACED BLANKET SUCT INSULATION. REFER TO DETAIL ON DRAWING M501.



FIRST FLOOR HVAC PLAN
Scale: 1/8" = 1'-0"



FIRST FLOOR PIPING PLAN
Scale: 1/8" = 1'-0"

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ORIGINAL SHEET SIZE IS 24" X 36" (ARCH D)
2/26/2020 10:38:56 AM AESI Proj. No. 18-064

EXPANSION TANK AND AIR CONTROL SYSTEM SCHEDULE																			
TAG NO.	LOCATION	SYSTEM SERVED	TYPE	APPROX SYSTEM VOLUME GAL.	WATER TEMP RANGE MIN/MAX DEG. F.	PRV FILL PRESSURE AT TANK PSIG	MAX OPER. PRESS.			AIR SEPARATOR				BASIS OF DESIGN				REMARKS	
							RELIEF VALVE PSIG	AT TANK PSIG	MIN. TANK VOLUME GAL.	MIN. ACCEPT VOLUME GAL.	TAG NO.	INLET & OUTLET SIZE	GPM	MAX. P.D. FT.	WG. (LBS)	MFR	VERTICAL EXP. TANK MODEL #		AIR SEPARATOR MODEL #
ET-1	MECHANICAL ROOM	HEATING WATER	VERTICAL BLADDER	400	60/180	35	50	40	34	27	AS-1	2-1/2"	50	4	90	B&G	SERIES D B-85	ROLAIRTR0L MODEL R-2-1/2	SEE NOTES

NOTES:
1. PROVIDE AUTOMATIC AIR VENT ON AIR SEPARATOR

AIR COOLED CONDENSING UNIT SCHEDULE																						
TAG NO.	LOCATION	MANUFACTURER AND MODEL NUMBER	TYPE	DESIGN AMBIENT TEMP	TOTAL COOLING MBH	MIN EER RATING	REFRIG TYPE	SAT SUCTION TEMP	NO OF CIRCUITS	COMPRESSOR/CONDENSER FAN				ELECTRICAL DATA					REMARKS			
										NO. OF COMP	TYPE	NO. STEPS	COMPRESSOR FLA	NO. COND FANS	COND FAN TOTAL FLA	UNIT MCA	MAX FUSE	VOLT/PH.		DISC SW BY	EM POWER	WG. (LBS)
ACCU-1	NORTH SIDE OF MECH ROOM	DAIKEN RCS030D	AIR COOLED CONDENSING UNIT	95	332.0	14.1	R-410A	45	2	3	SCROLL	4	COMPR 1 = 56.7 COMPR 2 = 25.7 COMPR 3 = 25.7	4	4.20	140.5	175.0	208/3	MFR THRU THE DOOR	NO	2166	SEE NOTES

NOTES:
1. CONDENSER COIL GUARDS
2. ANTI-SHORT CYCLE TIMER
3. REFRIGERANT SERVICE VALVES
4. REFRIGERATION SPECIALTIES
5. CONVENIENCE OUTLET
6. WARRANTY 1 YEAR PARTS WITH EXTENDED ADDITIONAL 4 YEARS ON ALL THREE COMPRESSORS
7. SOUND BLANKETS FOR ALL COMPRESSORS
8. LOW AMBIENT CONTROL DOWN TO 45 DEGREES AMBIENT
9. CONDENSING UNIT SHALL BE OF THE SAME MFR AND MATCHED WITH INDOOR DX COIL IN AHU-1

UNIT HEATER SCHEDULE																		
TAG NO.	AREA SERVED	ARRANGEMENT	PERFORMANCE				MOTOR			DISCONNECT		CONTROL	WEIGHT LBS.	BASIS OF DESIGN		NOTES		
			CFM	MBH	COIL ROWS	EWI	LWT	GPM	ECM MOTOR HP	VOLTS	PHASE			PROVIDED BY	LOCATION		MFG.	MODEL #
PUH-1,2 & 3	MECH & ELEC ROOMS	HORIZONTAL	450	9.78	1	180	160	1.7	1/30	120	1	MFR	ON UNIT	T	39	RITTLING	RH-24	1, 2, 3, 4, 8
CUH-1	ENTRY VESTIBULE	FULLY RECESSED WALL	300	22.4	1	180	160	2.3	1/12	120	1	MFR	ON UNIT	T	90	RITTLING	RFRW-03	5, 6, 7, 8, 9, 10, 11, 12
CUH-2	CORRIDOR NORTH EXIT	FULLY RECESSED WALL	200	16.2	1	180	160	1.7	1/12	120	1	MFR	ON UNIT	T	80	RITTLING	RFRW-02	5, 6, 7, 8, 9, 10, 11, 12

NOTES:
1. PROVIDE VERTICAL AND HORIZONTAL DISCHARGE LOUVERS.
2. PROVIDE MOTOR GUARD
3. UNIT IS CONTROLLED BY CYCLING FAN FROM WALL MOUNTED THERMOSTAT (NO CONTROL VALVE REQUIRED)
4. PROVIDE VIBRATION ISOLATING HANGERS
5. 6" END POCKETS ON BOTH ENDS OF CABINET HEATER
6. INSULATED FRONT PANEL
7. COLOR AS SELECTED BY THE ARCHITECT
8. DISCONNECT SWITCH
9. THREE SETS OF 1" MERV 8 FILTERS WITH EACH UNIT
10. TWO-WAY TEMPERATURE CONTROL VALVE FURNISHED BY TEMPERATURE CONTROL CONTRACTOR
11. WALL SEAL AND TRIM KIT

CONTROL:
C- CONTINUOUS NIGHT AND DAY OPERATION
M- MANUALLY STARTED OPERATION "AS REQUIRED" ENERGIZED ONLY DURING ZONE OCCUPIED SCHEDULE
N- ON NIGHT SETBACK, CONTINUOUS OPERATION DURING ZONE OCCUPIED SCHEDULE
T- CONTROLLED BY SPACE TEMPERATURE SENSOR
MT- MANUALLY STARTED WITH INTERLOCK TO DDC PROGRAMMABLE TIMER

ROOF HOOD SCHEDULE												
TAG NO.	LOCATION	TYPE	SERVICE	AIR QUANTITY	THROAT AREA SQ FT	MAX AIR THROAT VELOCITY FPM	STATIC PRESSURE "W.C.	THROAT WXL	HOOD SIZE LxWxH OR DIA x H	FINISH	MANUFACTURER & MODEL	NOTES
IH-1	MECH ROOM	GRAVITY HOOD	VENTILATION INTAKE HOOD	7000	12.25	600	0.047	42x42	78x75x23	ANODIZED ALUM.	GREENHECK FGI	1, 2, 3, 5, 6

NOTES:
1. PROVIDE GALVANIZED BIRD SCREEN.
2. PROVIDE 14" HINGED INSULATED CURB WITH SAFETY BARS.
3. MOTORIZED OUTSIDE AIR DAMPER FURNISHED BY TEMPERATURE CONTROL CONTRACTOR
4. MOTORIZED RELIEF AIR DAMPER FURNISHED BY TEMPERATURE CONTROL CONTRACTOR
5. 18" HIGH ROOF INSULATED LEVELING CURB
6. ATTACH HOOD TO CURB WITH MINIMUM OF 8-3" CADDUM WOOD SCREWS TO SECURE FOR EXCESSIVE WIND LOADS

EXHAUST AND VENTILATION FAN SCHEDULE																
TAG NO.	LOCATION	TYPE	CFM	E.S.P. IN. W.C.	MOTOR			ELECTRICAL DATA					MANUFACTURER	MODEL NO.	WG. LBS.	NOTES
					HP	PHASE	DRIVE	VOLTS	PHASE	AMP	DRIVE	WIRE				
EF-1	NORTH WALL	WALL MOUNTED CENTRIFUGAL	675	0.250	1/4	BELT	1140	120/1	MFR	NO		DDC OCCUPANCY SCHEDULE	GREENHECK	GB-091	54	1, 2, 3, 4
VF-1	NORTH WALL BUS MAINT BAY	WALL MOUNTED CENTRIFUGAL	3000	0.250	3/4	BELT	1140	208/3	MFR	NO	END SWITCH AND CO2	GREENHECK	GB-161	101	1, 2, 3, 4, 5	

NOTES:
1. BIRDSCREEN
2. DISCONNECT SWITCH
3. BACKDRAFT DAMPER
4. WALL COLLAR
5. VF-1 SHALL BE MANUALLY OPERATED AND SHALL ALSO AUTOMATICALLY START IF CO2 SENSOR DETECTS CO2 LEVEL ABOVE 1000PPM. INTERLOCK TO END SWITCH ON INTAKE DAMPER ACTUATOR.

PUMP SCHEDULE										
TAG NO.	LOCATION	TYPE	SERVICE	TOTAL GPM	TOTAL FT. HEAD IN. W.C.	DRIVE	MOTOR HP	VOLT/PH.	MFG.	REMARKS
HWP-1	MECH ROOM	BASE MOUNTED END SUCTION	HEATING WATER	50	55	CONSTANT VOLUME	2	208/3	BELL & GOSSETT MODEL 1510	1, 2, 3

NOTES:
1. PROVIDE COUPLING GUARD.
2. PROVIDE HIGH EFFICIENCY, NON-OVERLOADING MOTOR. MOTORS USED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY MOTORS
3. PROVIDE NEOPRENE VIBRATION ISOLATORS

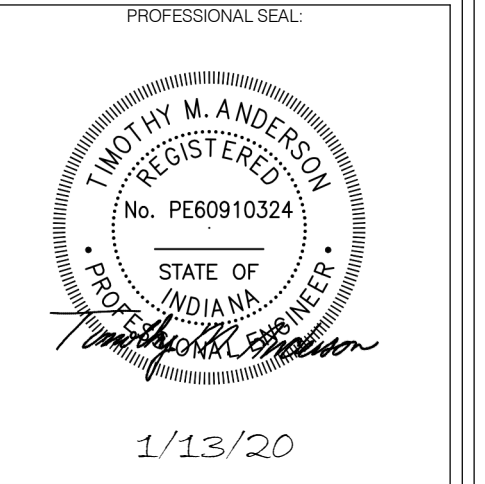
AIR HANDLING UNIT SCHEDULE									
GENERAL INFORMATION									
DESIGNATION ON DRAWINGS	AHU-1								
LOCATION	MECHANICAL ROOM								
OVERALL PHYSICAL SIZE L X W X H	196" LONG X 80" WIDE X 52" TALL								
BASE RAIL HEIGHT	6"								
UNIT WEIGHT LBS	3515								
CONFIGURATION	HORIZONTAL DRAW THRU MOUNTED ON 4" HIGH CONCRETE PAD								
UNIT CONSTRUCTION	2" DOUBLE WALL CONSTRUCTION WITH 2" THICK, 2 LB/CU FT INJECTED FOAM INSULATION IN ALL SECTIONS. ACCESS DOORS ALL DOUBLE WALL, FULLY GASKETED								
UNIT TOTAL CFM	7,000								
START-UP	PROVIDE FACTORY START-UP								
ACCESSORIES	VARIABLE FREQUENCY DRIVE, DISCONNECT, LIGHT PACKAGE AND MAGNEHELIC FILTER GAUGES FOR FILTER BANK								
DAMPERS	OUTSIDE AIR DAMPERS AND RETURN AIR DAMPERS SHALL BE LOCATED IN THE EXTERNAL DUCT AND NOT A PART OF THE UNIT. THE DAMPERS LOW LEAKAGE DAMPERS SHALL BE FURNISHED AND INSTALLED BY THE SHEETMETAL CONTRACTOR								
DX COOLING COIL									
TOTAL CFM	7000								
EAT DB/WB	82.6/67.5								
LAT DB/WB	53.8/52.5								
AIR PRESSURE DROP IN. W.C.	0.79								
TOTAL COOLING MBH	320.6								
SENSIBLE COOLING MBH	220.2								
COOLING MEDIUM	R-410a REFRIGERANT								
COIL CONSTRUCTION	COPPER TUBE/ALUMINUM FIN								
TUBE DIAMETER AND CONN SIZES	5/8" DIAMETER WITH LIQUID 2@1-3/8", SUCTION 2@1-5/8"								
CONNECTION TYPE	SWEAT								
FINS PER INCH	9								
NUMBER OF ROWS	8								
COIL FACE AREA SQ FT	16.75								
SUCTION TEMPERATURE DEG F	46								
FACE VELOCITY FPM	418 (450 MAX)								
DRAIN PAN	STAINLESS STEEL IAQ DESIGN								
COIL CASING MATERIAL	STAINLESS STEEL								
COIL PIPING ARRANGEMENTS	INTERWIND								
SUPPLY FAN									
TOTAL CFM	7,000								
EXTERNAL STATIC PRESSURE INCHES WC	2.2"								
MINIMUM OUTSIDE AIR (OCCUPIED)	1,000								
FAN TYPE	CENTRIFUGAL DWDI AIRFOIL								
DISCHARGE ARRANGEMENT	FRONT TOP								
VARIABLE FREQUENCY DRIVE	YES								
SIZE	19.69" DIAMETER								
DRIVE TYPE	BELT								
TOTAL STATIC PRESSURE IN. W.C.	2.0"								
FAN RPM	1943								
MOTOR HP	10								
MOTO BHP	7.41								
MOTOR TYPE	PREMIUM EFFICIENCY ODP								
MOTOR RPM	1750								
ISOLATION TYPE	INTERNAL BASE MOUNTED WITH 1" SPRING ISOLATORS								
ACCESSORIES	ACCESS DOOR, VIEWING WINDOW AND SHAFT GROUNDING RING								
INTERNAL FACE AND BYPASS HEATING WATER COIL									
TOTAL CFM	7,000								
EAT DB	25								
LAT DB	69.9								
TOTAL MBH	339.3								
AIR PRESSURE DROP IN. W.C.	0.22								
HEATING MEDIUM	WATER								
WATER FLOW GPM	31.00								
HEATING MEDIUM	WATER								
WATER PRESSURE DROP FT. HD.	9.9								
EWI/LWT	180/160								
FLUID TYPE	WATER								
FINS PER INCH	10								
ROWS	2								
COIL FACE AREA SQ FT	13.95								
VELOCITY FEET PER MINUTE	509								
COIL COATING	NONE								
COIL CONSTRUCTION	COPPER TUBE/ALUMINUM FIN								
TUBE DIAMETER	5/8"								
CONNECTION TYPE	THREADED CARBON STEEL								
CONNECTION SIZE	2.5"								
TUBE THICKNESS MINIMUM	0.024								
ACCESSORIES	FACE AND BYPASS ACTUATOR PROVIDED BY TEMP. CONTROL CONTRACTOR								
FILTER BANK									
FILTER TYPE	2" MERV 8 PRE-FILTERS AND 4" MERV 11 FINAL FILTERS								
RACK MATERIAL	ALL ALUMINUM								
SPARE FILTERS	TWO SETS								
ACCESSORIES	VIEWING WINDOW, MAGNEHELIC FILTER GAUGE, DIRTY FILTER INDICATOR SWITCH								
ELECTRICAL INFORMATION									
VOLTAGE/PHASE/FREQUENCY	208/3/60								
FULL LOAD AMPS (FLA)	29.5								
CERTIFICATION	ETL LISTED								
WARRANTY	1 YEAR PARTS WARRANTY								



5975 Castle Creek Parkway N Drive, Suite 300 • Indianapolis, Indiana 46250
Tel: 317.810.4141 • Fax: 317.810.4140 • www.applied-e.com

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Indianapolis, IN 46202

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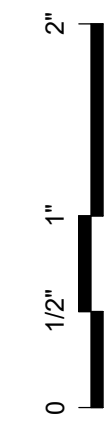
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1	ADDENDUM 3	3/2/20

DATE ISSUED: 1/13/2020	DRAWN BY: RLW	CHECKED BY: TMA
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DRAWING TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER:
M601

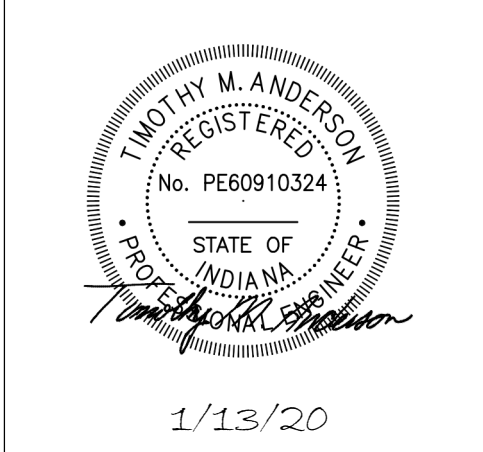
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#	DESCRIPTION	DATE	BY
1	ADDENDUM 3	3/2/20	

DATE ISSUED:	DRAWN BY:	CHECKED BY:
1/13/2020	RLW	TMA

DRAWING TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER:
M602

HOT WATER BOILER SCHEDULE																				
TAG NO.	LOCATION	FUEL	GAS PRESSURE	INPUT MBH	OUTPUT MBH	MIN. TURN DOWN	PROPYLENE GLYCOL PERCENTAGE	GPM	EWT	LWT	MAX. PRESSURE DROP PSIG	RELIEF VALVE SETTING	ELECTRICAL DATA			TYPE	MFG.	MODEL NO.	WGT. LBS.	REMARKS
													STARTER BY	EM. POWER	VOLT & PHASE					
B-1	MECH ROOM	NG	7-14"	500	470	5 TO 1	NONE	50	165	180	5.5	30Psi	MFR	NO	115/1	CONDENSING	CAMUS	DYNAFORCE 0500	560	SEE NOTES
B-2 ALTERNATE	MECH ROOM	NG	7-14"	500	470	5 TO 1	NONE	50	165	180	5.5	30Psi	MFR	NO	115/1	CONDENSING	CAMUS	DYNAFORCE 0500	560	SEE NOTES

- NOTES:**
- BOILER B2 IS FOR 100% BACKUP SHOULD BOILER B1 FAIL (ALTERNATE)
 - PROVIDE BOILER CONTROLLER CAPABLE OF INTERFACE TO DDC CONTROL SYSTEM. COORDINATE FORMAT WITH TEMPERATURE CONTROL CONTRACTOR
 - PROVIDE AL29-4C BOILER FLUE AND INTAKE PIPING
 - PROVIDE ACID NEUTRALIZATION KIT FOR BOILER
 - PROVIDE FACTORY START UP. IF ALTERNATE IS ACCEPTED FOR BOILER B2 PROGRAM LEAD LAG BOILER OPERATION
 - ONE YEAR PARTS WARRANTY WITH ADDITIONAL 10 YEAR HEAT EXCHANGER WARRANTY
 - PROVIDE COMBINATION FLUE AND INTAKE PIPING AND WALL TERMINATION KIT
 - FURNISH GAS TRAIN. REFER TO PLUMBING DRAWINGS FOR GAS PRESSURE REGULATOR SIZING
 - FURNISH BOILER FLOW SWITCH TO BE FIELD INSTALLED ON BOILER DISCHARGE AND WIRED TO BOILER CONTROLLER.

TAG NO.	INLET SIZE	MAX. CFM	MIN. CFM	HEATING CFM	DOWN STREAM S.P. (IN)	INLET S.P. (IN)	MIN. S.P. (IN)	NC LEVEL AT INLET S. P.	MAX. ROOM NC	DISCHARGE SOUND POWER				HOT WATER REHEAT COIL 180 EWT, 160 LWT					CONTROL TYPE	WEIGHT (LBS)	MFG.	MODEL #	NOTES					
										OCTAVE BAND CENTER FREQUENCY IN HZ.				EAT (°F)	MIN LAT (°F)	GPM	PIPE RUNOUT SIZE	MAX. WATER PD (FT.)						HEATING CFM	MIN ROWS	MBH AT HTG. CFM		
										125	250	500	1000														2000	4000
VAV-01	12"	1400	400	800	0.3	0.75	0.26	24	22	29	30	41	51	52	39	55	95	3.5	3/4"	8	800	2	34.5	DDC	60	TITUS	DESV-12	1,2,3,4,5
VAV-02	12"	1400	400	800	0.3	0.75	0.26	24	22	29	30	41	51	52	39	55	95	3.5	3/4"	8	800	2	34.5	DDC	60	TITUS	DESV-12	1,2,3,4,5
VAV-03	6"	350	120	175	0.3	0.75	0.15	20	20	27	29	40	51	53	39	55	95	1	3/4"	8	175	2	7.6	DDC	40	TITUS	DESV-6	1,2,3,4,5
VAV-04	6"	400	120	200	0.3	0.75	0.15	20	20	27	29	40	51	53	39	55	95	1	3/4"	8	200	2	8.6	DDC	40	TITUS	DESV-6	1,2,3,4,5
VAV-05	5"	200	70	100	0.3	0.75	0.08	20	20	24	28	39	53	59	40	55	95	0.5	3/4"	8	100	2	4.3	DDC	40	TITUS	DESV-5	1,2,3,4,5
VAV-06	5"	170	70	100	0.3	0.75	0.08	20	20	24	28	39	53	59	40	55	95	0.5	3/4"	8	100	2	4.3	DDC	40	TITUS	DESV-5	1,2,3,4,5
VAV-07	7"	500	150	350	0.3	0.75	0.23	22	18	27	29	40	51	53	39	55	95	1.5	3/4"	8	350	2	15.1	DDC	40	TITUS	DESV-7	1,2,3,4,5
VAV-08	8"	600	200	350	0.3	0.75	0.27	24	21	29	30	41	51	52	39	55	95	1.5	3/4"	8	350	2	15.1	DDC	40	TITUS	DESV-9	1,2,3,4,5
VAV-09	7"	475	150	350	0.3	0.75	0.23	22	18	27	29	40	51	53	39	55	95	1.5	3/4"	8	350	2	15.1	DDC	40	TITUS	DESV-7	1,2,3,4,5
VAV-10	6"	350	100	200	0.3	0.75	0.15	20	20	27	29	40	51	53	39	55	95	1	3/4"	8	200	2	8.6	DDC	40	TITUS	DESV-6	1,2,3,4,5
VAV-11	14"	2500	450	1500	0.3	0.75	0.32	23	18	29	30	41	51	52	39	55	95	6.5	1-1/4"	8	1500	2	64.8	DDC	80	TITUS	DESV-14	1,2,3,4

- NOTES:**
- ROOM NC LEVEL SHOWN INCLUDES ATTENUATION TRANSFER FUNCTIONS BASED ON ARI STANDARD 885
 - DDC CONTROLLER TO BE PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND FACTORY INSTALLED BY BOX MANUFACTURER
 - COORDINATE WITH ALL TRADES TO PROVIDE AND MAINTAIN 24" CLEAR ACCESS IN FRONT OF CONTROLS. PROVIDE BOX WITH PIPING CONNECTIONS ON SAME SIDE AS CONTROLLER.
 - BRANCH DUCT SIZE TO BE SAME AS INLET SIZE UNLESS NOTED. WHERE SIZES ARE DIFFERENT, TRANSITION DUCT AT INLET TO BOX.
 - PROVIDE CONTROL TRANSFORMERS FOR VAV TERMINALS.

VENTILATION SCHEDULE									
ROOM NAME	ROOM NUMBER	NUMBER OF OCCUPANTS	OCCUPANCY CLASSIFICATION REFERENCE IMC TABLE 403.3	VENTILATION REQUIRED	VENTILATION PROVIDED	TOTAL CFM OF VENTILATION AIR PROVIDED	EXHAUST REQUIRED	EXHAUST PROVIDED	REMARKS
VESTIBULE	100	0	MAIN ENTRY LOBBY	0.06 CFM/SQ FT	.06 CFM/SQ FT	10	0	0	150 SQ FT
SECURITY OFFICE	101	1	OFFICE SPACES	5 CFM/PERSON	15 CFM/PERSON	15	0	0	
SHARED OFFICE	102	9	OFFICE SPACES	5 CFM/PERSON	5 CFM/PERSON	45	0	0	
TRAINING ROOM	103	50	LECTURE CLASSROOM	7.5 CFM/PERSON	7.5 CFM/PERSON	375	0	0	
OFFICE	104	1	OFFICE SPACES	5 CFM/PERSON	5 CFM/PERSON	5	0	0	
STORAGE CLOSET	105	0	NOT CLASSIFIED	0	0	0	0	0	
SIMULATOR ROOM	106	1	COMPUTER LAB	10 CFM/PERSON	10 CFM/PERSON	10	0	0	
TRAINING ROOM	107	40	LECTURE CLASSROOM	7.5 CFM/PERSON	7.5 CFM/PERSON	300	0	0	
DISPATCH/IT	108	1	TELEPHONE/DATA ENTRY	5 CFM/PERSON	5 CFM/PERSON	5	0	0	
BREAK ROOM	110	4	CAFETERIA	7.5 CFM/PERSON	7.5 CFM/PERSON	30	0	0	
MENS	111	0	TOILET ROOMS PUBLIC	0	0.80 CFM/SQ FT	15	50 CFM/FIXTURE	75 CFM/FIXTURE	3 FIXTURES, 225 CFM TOTAL
LACATION	112	2	DAY CARE	10 CFM/PERSON	10 CFM/PERSON	20	0	0	
WOMENS	113	0	TOILET ROOMS PUBLIC	0	0.80 CFM/SQ FT	15	50 CFM/FIXTURE	75 CFM/FIXTURE	3 FIXTURES 225 CFM TOTAL
RESTROOM	114	0	TOILET ROOMS PUBLIC	0	0.90 CFM/SQ FT	5	50 CFM/FIXTURE	75 CFM/FIXTURE	1 FIXTURE 75 CFM TOTAL
MECHANICAL	115	0	NOT CLASSIFIED	0	0	0	0	0	HEAT ONLY
ELECTRICAL	116	0	NOT CLASSIFIED	0	0	0	0	0	HEAT ONLY
CORRIDOR	117	0	CORRIDOR	0.06 CFM/SQ FT	0.06 CFM/SQ FT	50	0	0	825 SQ FT.
WATER	118	0	JANITORS CLOSET	0	0	0	50 CFM/FIXTURE	75 CFM/FIXTURE	1 FIXTURE 75 CFM TOTAL
STORAGE CLOSET	120	0	NOT CLASSIFIED	0	0	0	0	0	
BUS BAY INSTRUCTION	121	10	REPAIR GARAGE	10 CFM/PERSON	10 CFM/PERSON	100	0.75 CFM/SQ FT	1.62 CFM/SQ FT	1850 SQ FT/CO MONITORED, 3000 CFM EXHAUST PROVIDED WITH SEPARATE MAKE-UP AIR INTAKE
STORAGE CLOSET	123	0	STORAGE	0	0	0	0	0	
CUSTODIAL	125	0	JANITORS CLOSET	0	0	0	50 CFM/FIXTURE	75 CFM/FIXTURE	1 FIXTURE 75 CFM TOTAL
				TOTAL OF 970 CFM OF VENTILATION AIR REQUIRED		1000 TOTAL VENTILATION AIR PROVIDED	TOTAL OF 1840 CFM EXHAUST REQUIRED	TOTAL OF 3675 CFM OF EXHAUST PROVIDED	ALL OCCUPIED SPACES ARE MONITORED BY CO2 SENSORS AND SEQUENCE OF OPERATION WILL INCREASE VENTILATION AIR AUTOMATICALLY IF REQUIRED. OUTSIDE AIR IS MONITORED BY AIRFLOW MEASURING STATION TO INSURE MINIMUM VENTILATION AIR QUANTITY

INFRARED HEATER SCHEDULE																
QTY	MARK	MANUFACTURER/MODEL NUMBER	SYSTEM LENGTH	RADIANT EFFICIENCY %	NO STAGES	IGNITION TYPE	RADIANT HEAT OUTPUT MBH	INPUT MBH	ELECTRICAL			NATURAL GAS SUPPLY			REMARKS	
									VOLT	PH	HP	MIN	MAX			
1	IR-1	MODINE MODEL IPT100S0112	50 FT	82%	2	SPARK	82	100	120	1	0.03	5"	14"		SEE NOTES	

NOTES:

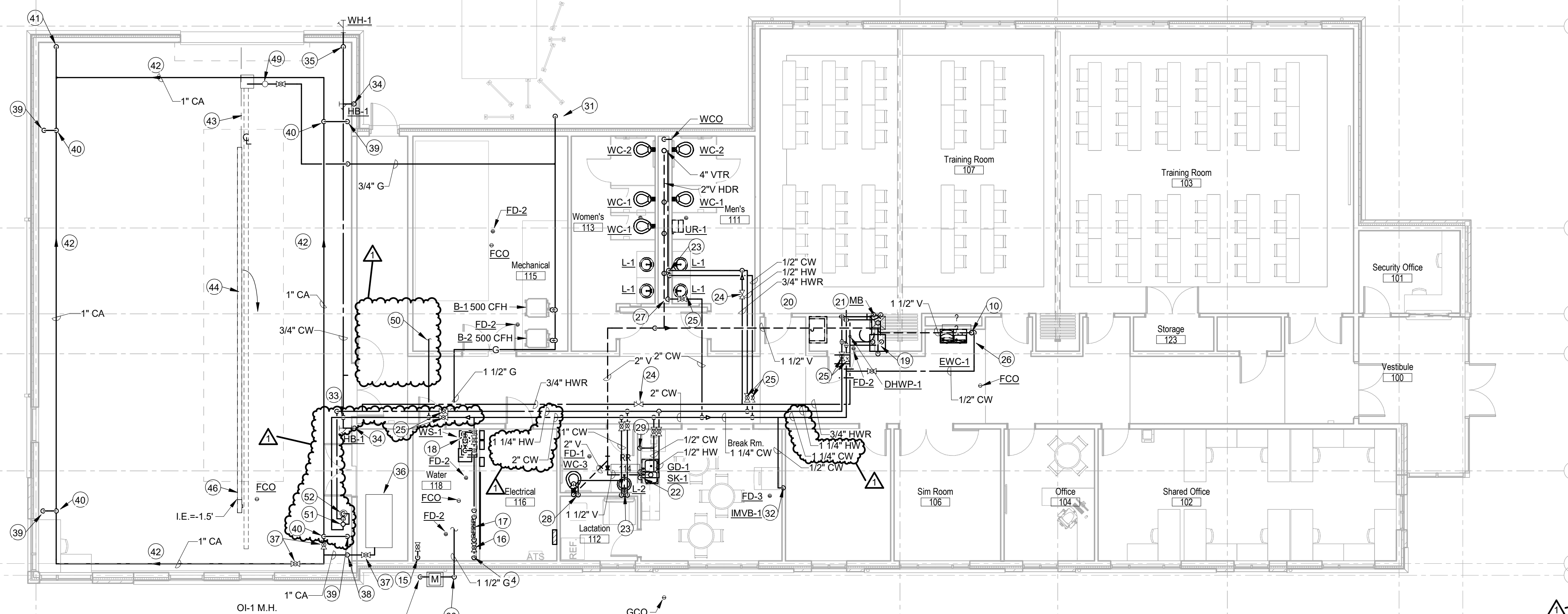
- HEATER RADIANT EFFICIENCY RATINGS MUST BE VERIFIED BY INDEPENDENT 3RD PARTY EN 416/ANSI STANDARD 1330
- REFLECTOR WITH HIGH TEMP REFRACTORY INSULATION OF 1/2" THICKNESS
- CONTROL HEATERS WITH HONEYELL 2 STAGE DIGITAL THERMOSTAT 40-90 DEGREES
- FOLLOW MANUFACTURER GUIDELINES FOR CLEARANCES
- FURNISH FLUE TERMINATION CAPS AND COMBUSTION AIR INTAKE VENT CAPS.
- FULL SHUT OFF GAS COCK, PRESSURE REGULATOR AND FLEXIBLE GAS CONNECTOR
- CHAIN MOUNTING KIT AND SAFETY HOOKS

GRILLE AND DIFFUSER SCHEDULE											
MARK	TYPE	NECK SIZE	OVERALL SIZE L" x W"	MAX. CORE/NECK VEL. (FPM)	MAX. CFM	MAX. NOISE CRITERIA	FRAME/MOUNTING	MANUFACTURER AND MODEL NUMBER	COLOR	REMARKS	
SDA	SQUARE PANEL CEILING DIFFUSER	6" Ø	24"x24"	700	140	20	REFER TO REFLECTED CEILING PLANS	TITUS OMNI	WHITE	ALL STEEL, PLAQUE STYLE	
SDB	SQUARE PANEL CEILING DIFFUSER	8" Ø	24"x24"	650	225	20	REFER TO REFLECTED CEILING PLANS	TITUS OMNI	WHITE	ALL STEEL, PLAQUE STYLE	
SDC	SQUARE PANEL CEILING DIFFUSER	10" Ø	24"x24"	685	375	20	REFER TO REFLECTED CEILING PLANS	TITUS OMNI	WHITE	ALL STEEL, PLAQUE STYLE	
SDD	SQUARE PANEL CEILING DIFFUSER	12" Ø	24"x24"	640	500	20	REFER TO REFLECTED CEILING PLANS	TITUS OMNI	WHITE	ALL STEEL, PLAQUE STYLE	
SDE	SQUARE PANEL CEILING DIFFUSER	14" Ø	24"x24"	610	650	20	REFER TO REFLECTED CEILING PLANS	TITUS OMNI	WHITE	ALL STEEL, PLAQUE STYLE	
EGA	EGGCRATE GRILLE	-	12"x12"	600	525	20	REFER TO REFLECTED CEILING PLANS	TITUS 50F	ALUM		
EGB	EGGCRATE GRILLE	-	24"x24"	500	1800	20	REFER TO REFLECTED CEILING PLANS	TITUS 50F	ALUM		
SGA	SIDEWALL SUPPLY GRILLE	-	SEE FLOOR PLANS FOR SIZE	400	PER PLANS	20	DUCT OR SIDEWALL REFER TO FLOOR PLAN	TITUS 300RL	WHITE UNLESS NOTED OTHERWISE	ALL STEEL, DOUBLE DEFLECTION, FRONT BARS PARALLEL TO LONG DIMENSION, NO DAMPER, 22 DEG. DEFL.	
RGA	RETURN GRILLE	-	SEE FLOOR PLANS FOR SIZE	500	PER PLANS	20	DUCT OR SIDEWALL REFER TO FLOOR PLAN	TITUS 350RL	WHITE	ALL STEEL, FIXED 35° DEFLECTION BLADES	

- NOTES:**
- DO NOT PROVIDE DAMPERS WITH GRILLES OR DIFFUSERS. ALL BALANCING DAMPERS SHALL BE LOCATED IN THE BRANCH DUCT

0 1/2" 1" 2"

SENSITIVE SECURITY INFORMATION



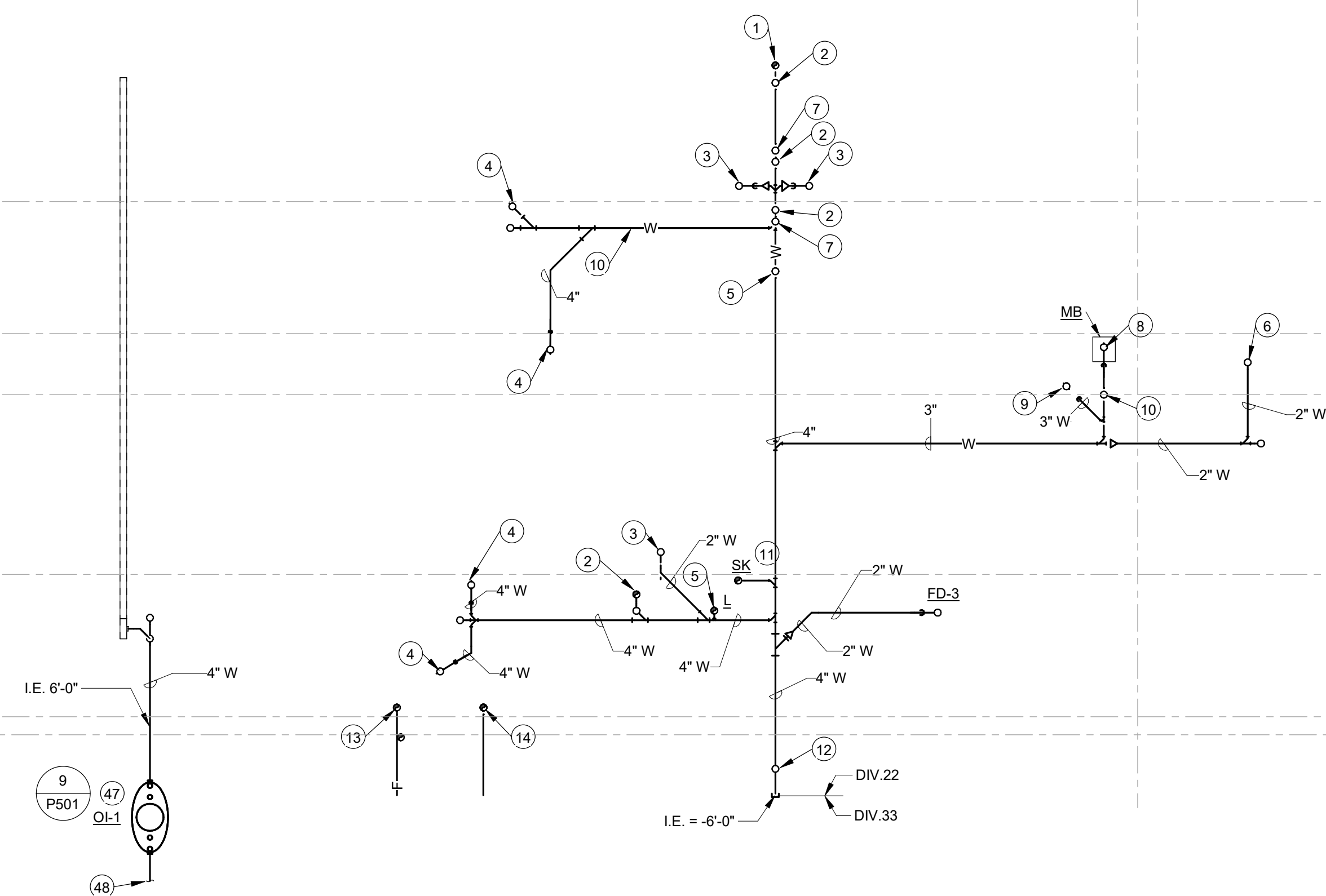
FIRST FLOOR PLUMBING PLAN
Scale: 1/8" = 1'-0"

GENERAL NOTES:

- SEE DRAWING P-001 FOR SYMBOLS AND ABBREVIATIONS.
- VERIFY ALL INVERT ELEVATIONS AND COORDINATE ALL UNDERSLAB UTILITIES AND STRUCTURES BEFORE INSTALLATION.
- COORDINATE WITH ALL OTHER TRADES.

PLAN NOTES:

- 4" W UP TO WCO.
- 4" W UP TO WC.
- 2" W UP TO FD-1.
- 4" W UP TO FD-2.
- 2" W UP TO LAVS.
- 2" W UP TO ECW.
- 2" W UP TO UR'S.
- 3" W UP TO MB.
- 3" W UP TO FD-2.
- 1 1/2" V UP.
- 2" W UP TO SK.
- 4" W UP TO GCO. SEE DETAIL 1/P501.
- 4" FP UP 12" TO FLANGED SPIGOT BY DIV.33. CONTRACTOR. SEE FP301 FOR CONTINUATION.
- 2" CW UP. SEE FIRST FLOOR PLUMBING PLAN FOR CONTINUATION.
- 4" FP SHOWN FOR REFERENCE ONLY. SEE FP301 FOR CONTINUATION.
- 2" CW MAIN SHUT-OFF VALVE.
- BFP-1 AND BFP-2.
- WS-1 3 VALVE BYPASS.
- DWH-1 MOUNT ON SHELF ABOVE MOP BASIN. PROVIDE FULL SIZE SRV DISCHARGE TO FD THRU AIR GAP. SEE PIPING DETAIL 5/P501.
- TMV-1 MOUNT THERMOSTATIC MIXING VALVES 5'-0" AFF TO BOTTOM OF VALVE. SEE PIPING DETAIL 5/P501.
- MB-1 3/4" CW, 3/4" HW, 3" DRAIN, 2" V.
- SK-1, GD-1 1/2" CW, 1/2" HW, 2" W, 1-1/2" V.
- LAVS 1/2" CW, 1/2" HW, 2" W, 1-1/2" V.
- CIRCUIT SETTER LIKE CIRCUIT SOLVER 3/4"-120"V. SEE DETAIL 7/P501.
- LINE SIZE BALL VALVE-TYPICAL.
- EWC-1 1/2" CW, 2" W, 1-1/2" V.
- 2" CW DN TO 2" CW HEADER. PROVIDE WHA-C WITH 18"x18" MILCOR ACCESS DOOR LOCATED IN MENS TOILET ROOM.
- 1" CW DN TO WC. PROVIDE WHA-A WATER HAMMER ARRESTER WITH 18"x18" MILCOR ACCESS DOOR.
- ROUGH-IN FOR REFRIGERATOR ICE MAKER. PROVIDE ICE MAKER VALVE BOX WITH 1/2" QUARTER TURN VALVE IN WALL BOX.
- 2 1/2" G UP. SEE DIAGRAM 8/P501.
- 1 1/4" G DN TO EMERGENCY GENERATOR. PROVIDE LINE SIZE GAS SHUT-OFF VALVE & CPB-2 IN DROP WITHIN 10' OF EQUIPMENT.
- 1/2" CW DOWN TO ICE MAKER VALVE BOX. PROVIDE ICE MAKER VALVE BOX WITH 1/2" QUARTER TURN VALVE AND BFP-4 IN WALL BOX.
- 3/4" CW EXTEND TO HB-1 & WH-1 IN THIS AREA.
- 3/4" DOWN TO HB-1 PROVIDE LINE SIZE BALL VALVE 5'-0" AFF, MOUNT HB-1 AT +12" AFF.
- 3/4" DOWN TO WH-1 PROVIDE LINE SIZE BALL VALVE 5'-0" AFF, MOUNT WH-1 AT +18" AFF.
- AC-1 AIR COMPRESSOR 1" CA. SEE SCHEDULE FOR MORE INFORMATION.
- LINE SIZE BALL VALVE.
- 1" CA UP.
- 3/4" CA DOWN TO 5'-0" AFF. TO POINT OF USE WORK STATION. SEE DETAIL X/P501.
- 3/4" CA BRANCH TAKE-OFF FROM TOP OF PIPE.
- 3/4" CA DOWN TO END OF MAIN DRAIN DIRT LEG. TERMINATE AT 5'-0" AFF.
- PITCH PIPE LOOP AWAY FROM AIR COMPRESSOR AT 1/8" PER FOOT.
- TD-1 ALIGN CENTERLINE WITH OVERHEAD DOOR CENTERLINE.
- TD-1 40 L.F. SEE SCHEDULE FOR MORE INFORMATION.
- SLOPE TD-1 TOWARDS CB-1.
- CB-1. SEE SCHEDULE FOR MORE INFORMATION.
- O.I.1. OIL INTERCEPTOR. SEE SCHEDULE FOR MORE INFORMATION.
- 4" SANITARY SEWER. EXTEND TO BUILDING SAN SEWER. SEE SITE/CIVIL DRAWINGS FOR MORE INFORMATION.
- GPR-4 100 CFH @ 7" W.C. FOR INFRARED HEATER. SEE SCHEDULE FOR MORE INFORMATION. PROVIDE LINE SIZE GAS VALVE, UNION, & DIRT-LEG WITHIN 5'-0" OF EQUIPMENT. SEE DETAIL 8/P501.
- REFER TO DETAIL 3/M-01. PROVIDE BFP-3 MOUNTED ON WALL FOR MAKE-UP WATER CONNECTION TO HEATING WATER SYSTEM. MOUNT IN ACCESSIBLE LOCATION FOR TESTING.
- E-SHEW STATION. SEE DETAIL 10/P501.
- TMV-2.



FOUNDATION PLUMBING PLAN
Scale: 1/8" = 1'-0"

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Etica GROUP
Applied Engineering Services
5975 Castle Creek Parkway N Drive, Suite 300 • Indianapolis, Indiana 46250
Tel: 317.810.4141 • Fax: 317.810.4140 • www.applied-e.com

IndyGo
NEW TRAINING FACILITY
IFB 19-12-337
Indianapolis Public Transportation Corporation
1100 West 21st Street
Indianapolis, IN 46202

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PROFESSIONAL SEAL:

1/13/20

180024.5

REVISION SCHEDULE			
#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	ADDENDUM 3		3/2/20

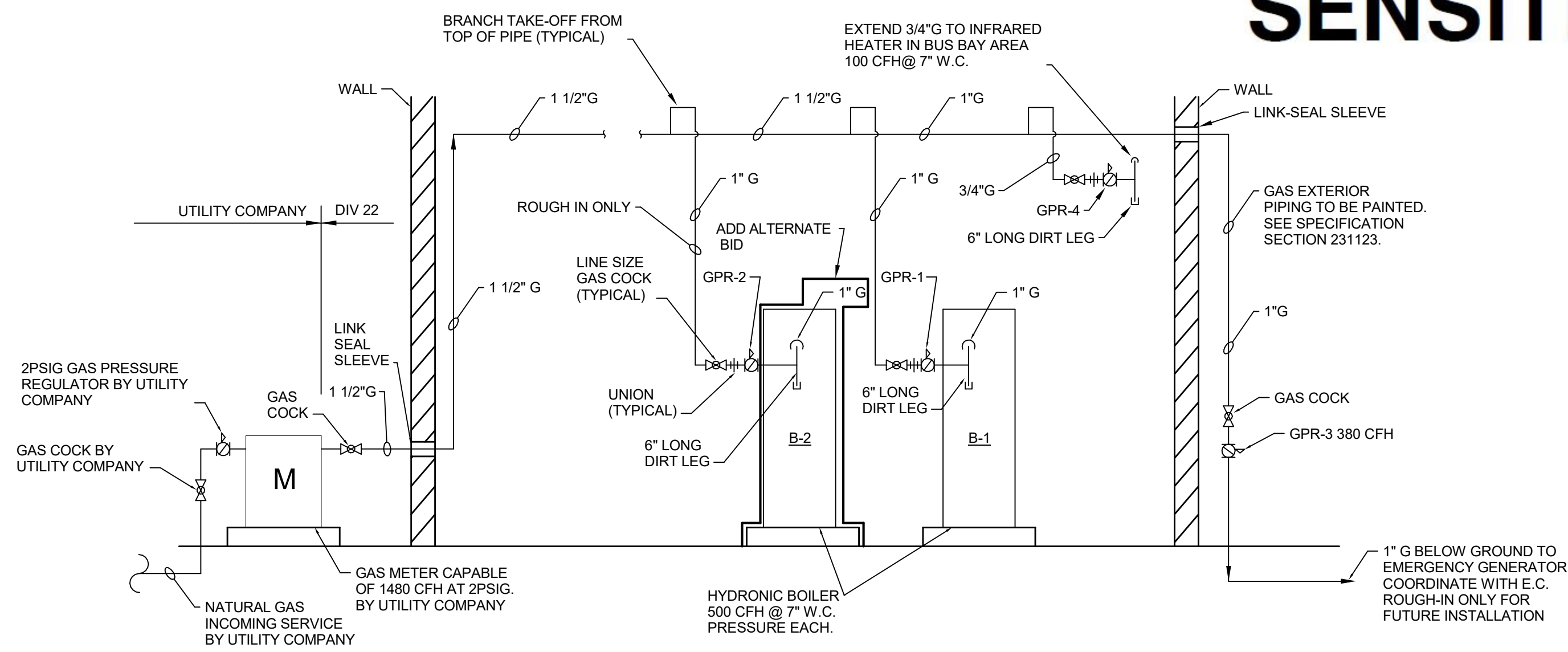
DATE ISSUED:	DRAWN BY:	CHECKED BY:
1/13/2020	GEM	TMA

DRAWING TITLE:
**FOUNDATION,
FIRST FLOOR,
AND ROOF
PLUMBING PLANS**

SHEET NUMBER:
P301

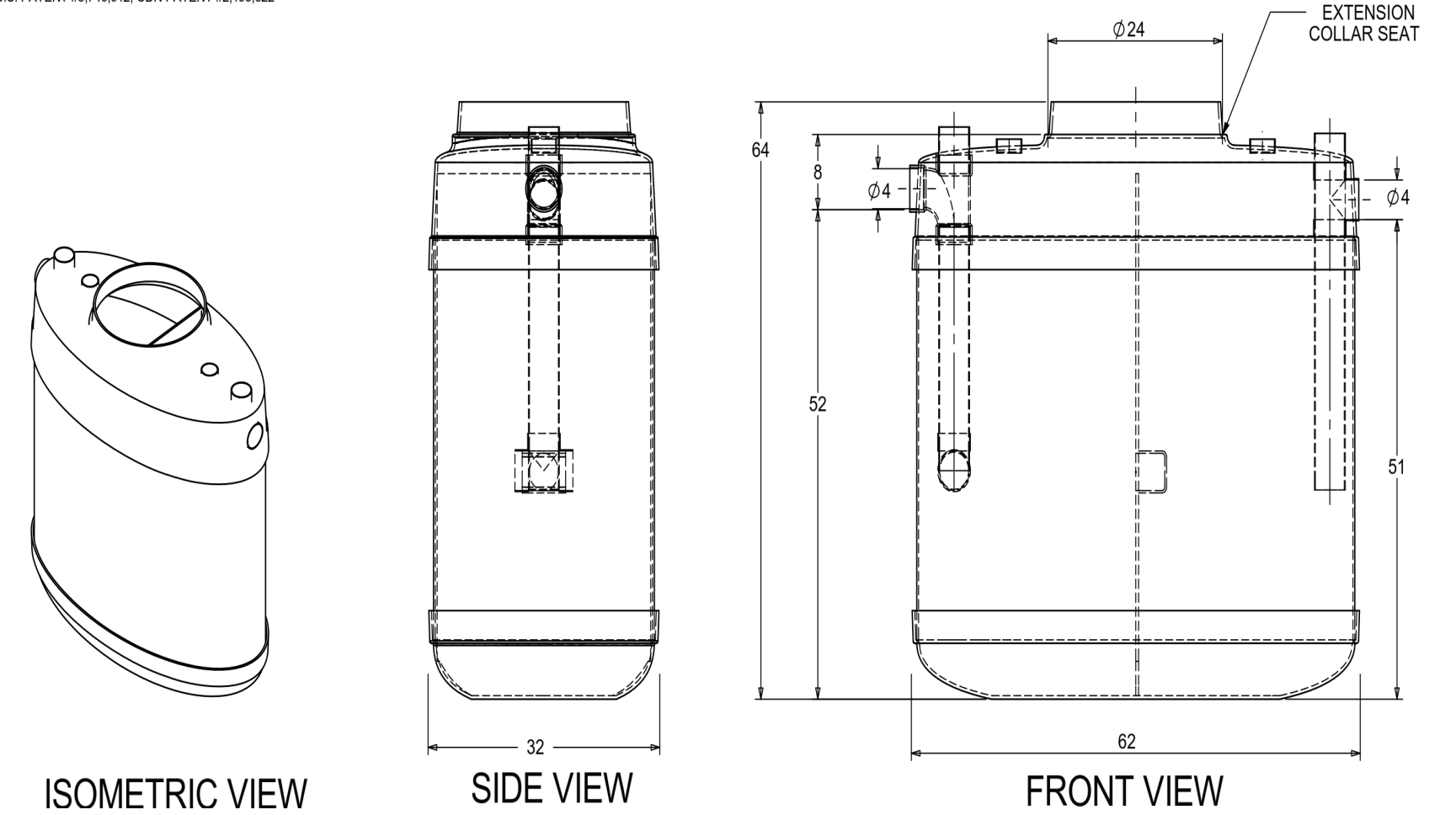
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2/26/2020 10:39:02 AM AESI Proj. No. 18-064

SENSITIVE SECURITY INFORMATION

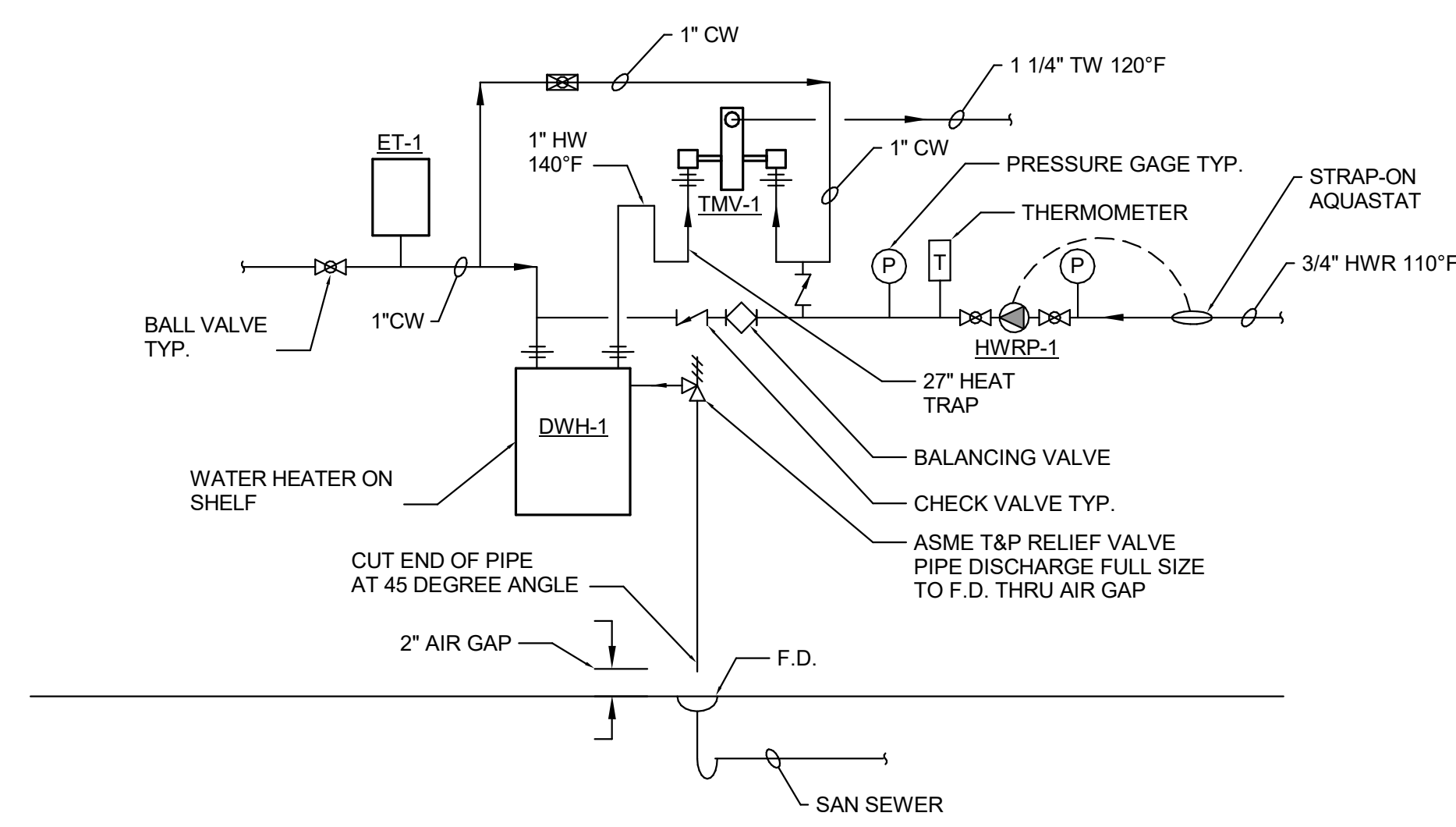


8 GAS PIPING DIAGRAM
Scale: NONE

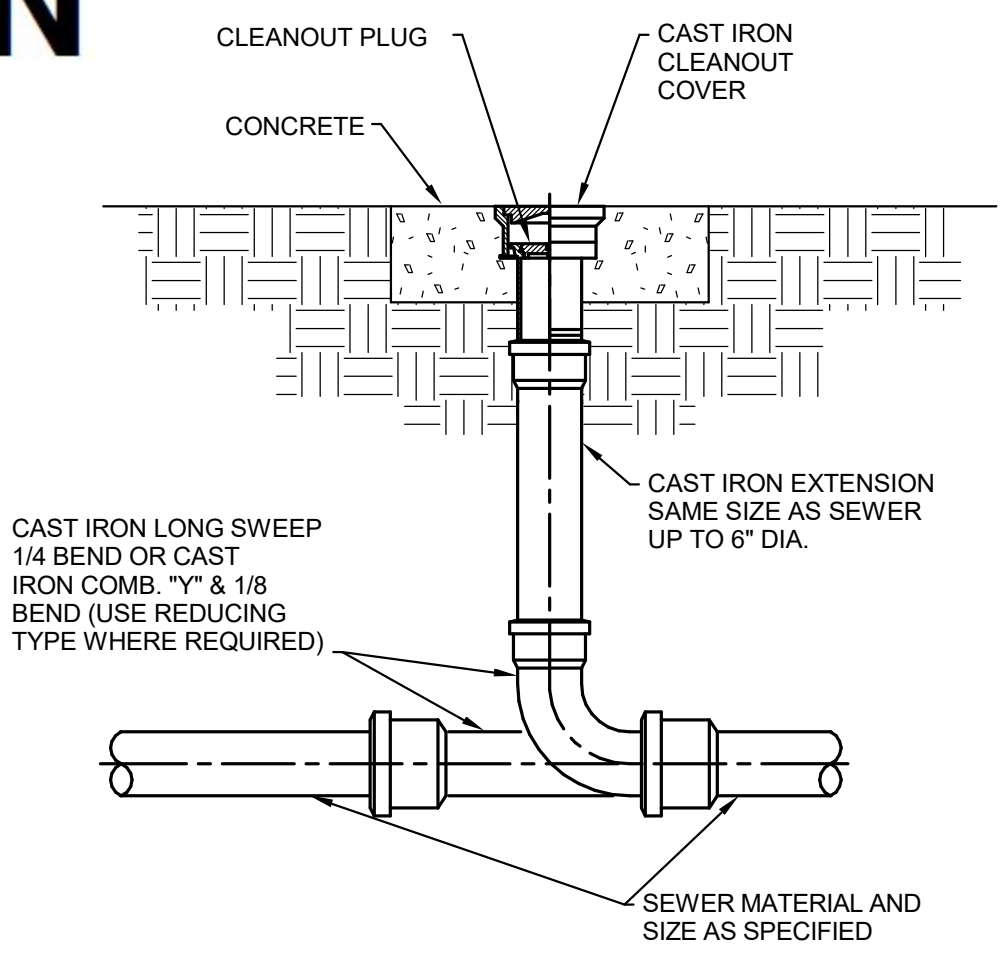
- NOTES:**
1. FOR GRAVITY APPLICATIONS ONLY.
 2. ALL PROCEPTOR UNITS ARE MANUFACTURED WITH FIBERGLASS REINFORCED PLASTIC. PHYSICAL CHARACTERISTICS AND THICKNESS: POLYESTER FIBERGLASS GLASS MINIMUM THICKNESS 1/4\"/>



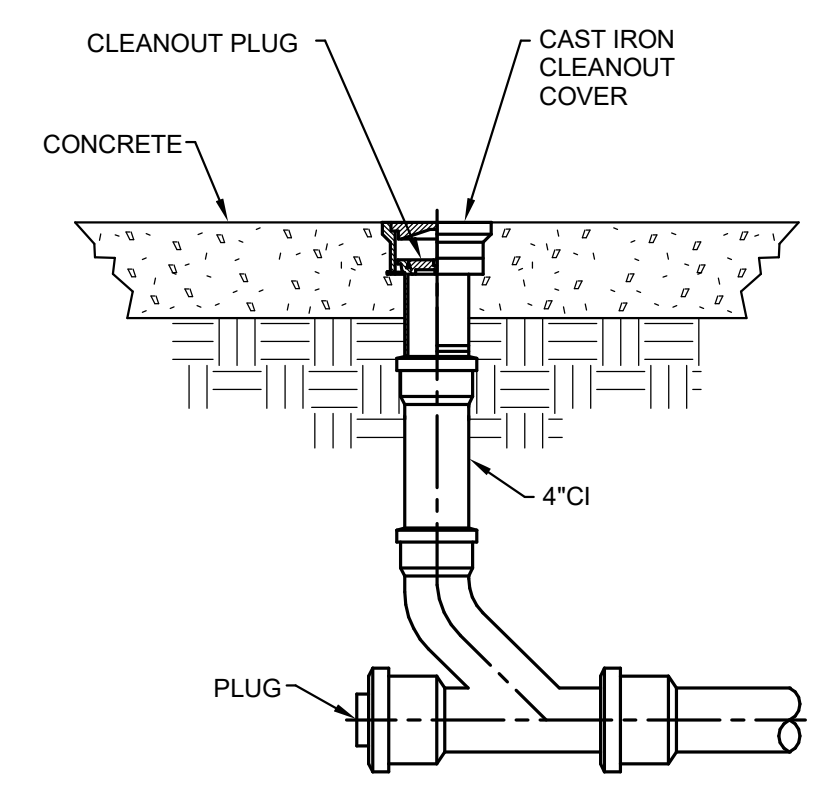
9 INTERCEPTOR DETAIL
Scale: NONE



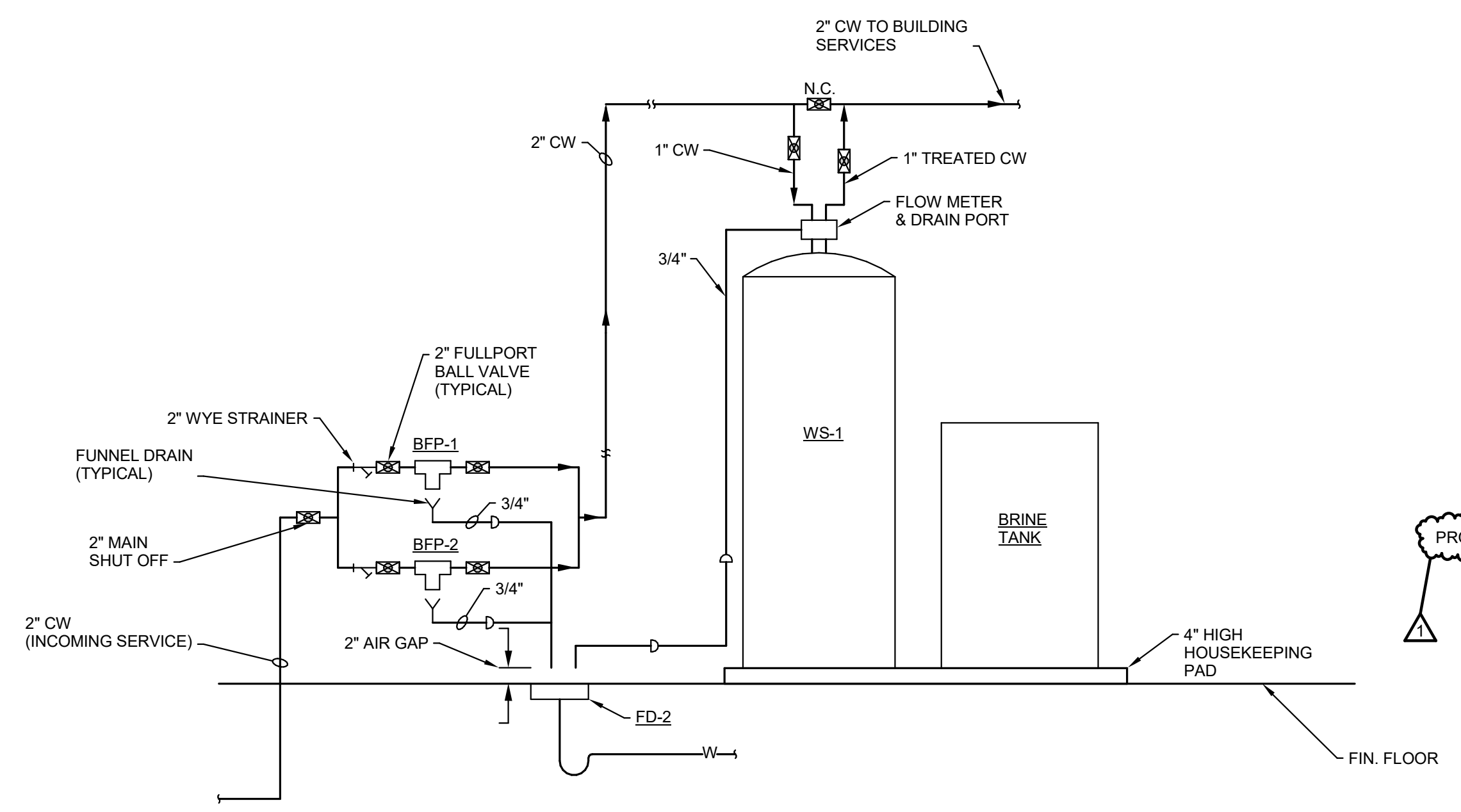
5 DOMESTIC WATER HEATER PIPING DIAGRAM
Scale: 12\"/>



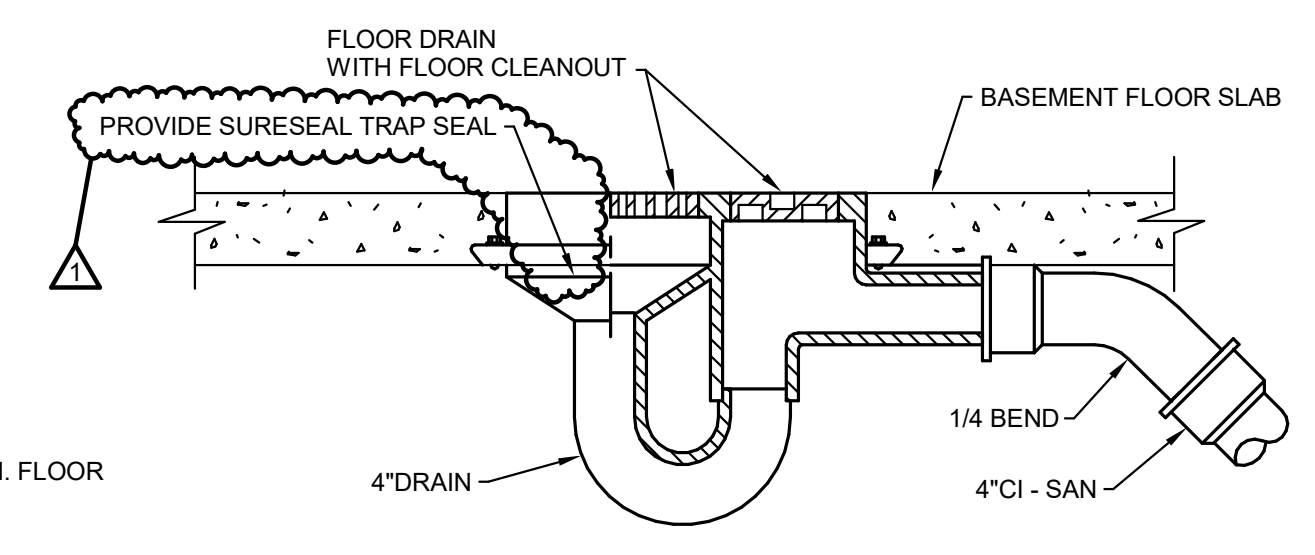
1 EXTERIOR CLEANOUT DETAIL
Scale: 12\"/>



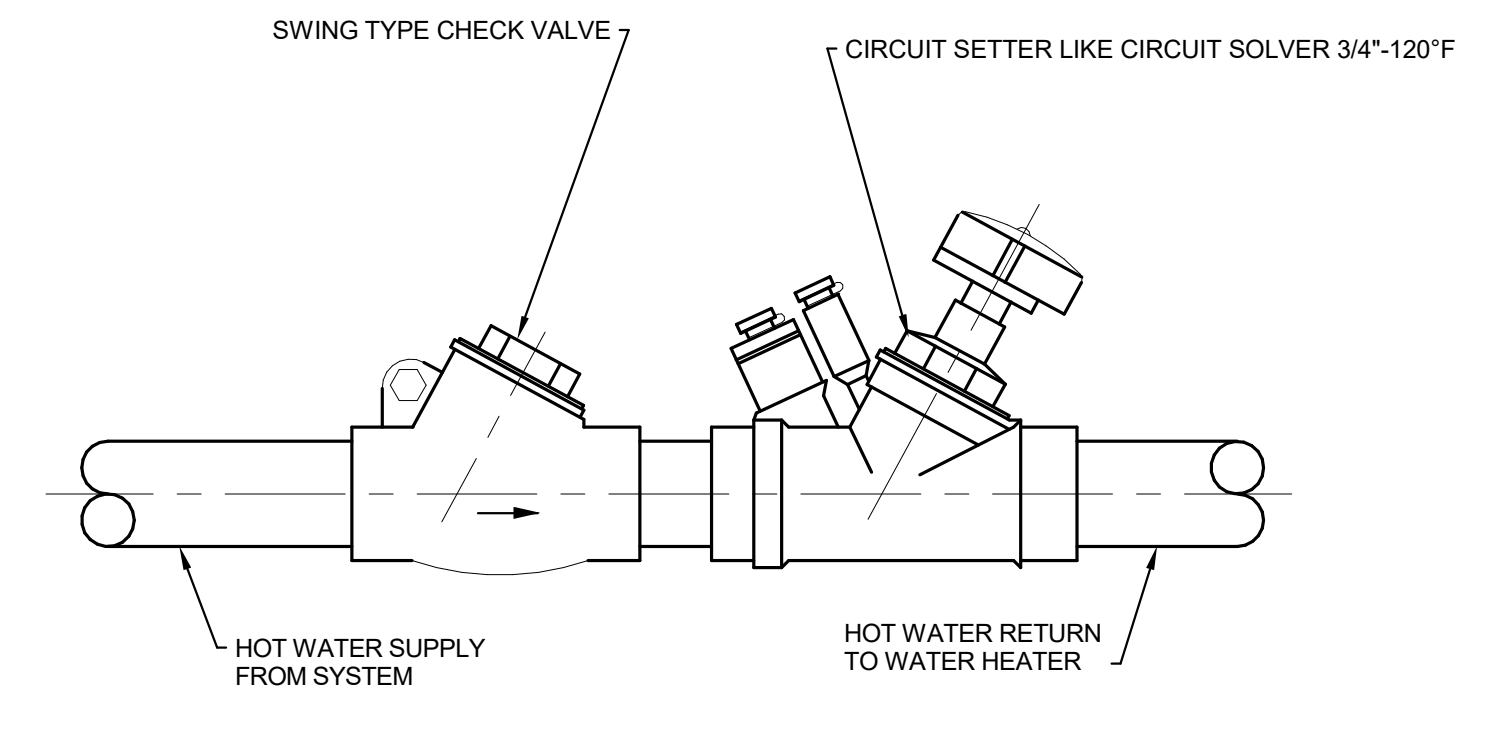
2 FLOOR CLEANOUT DETAIL
Scale: 12\"/>



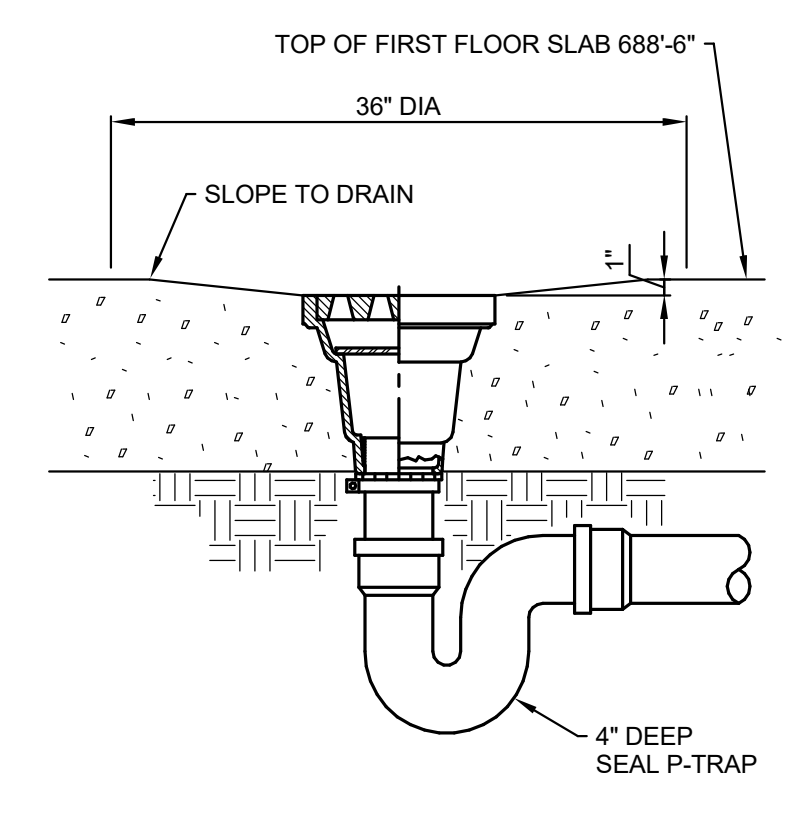
6 DOMESTIC COLD WATER SERVICE DIAGRAM
Scale: 12\"/>



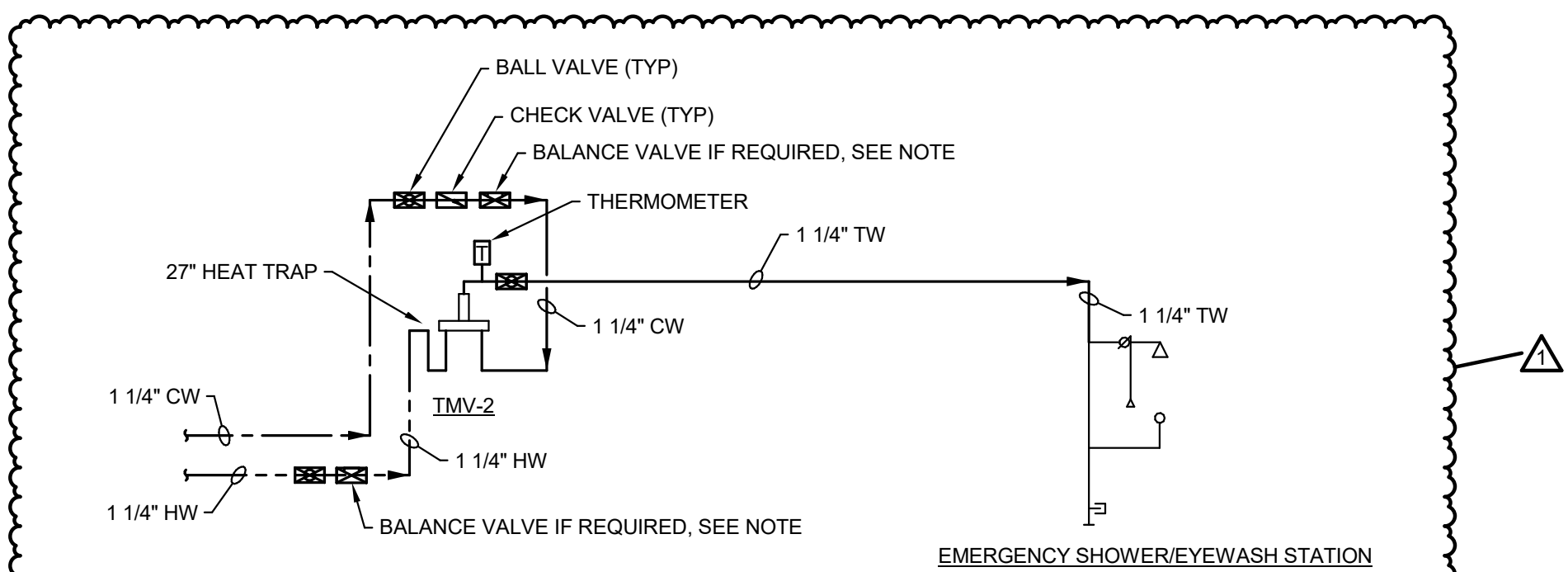
3 FLOOR DRAIN DETAIL
Scale: 12\"/>



7 HOT WATER BALANCING VALVE STATION DETAIL
Scale: NONE



4 TYPICAL FLOOR DRAIN DETAIL (ON GRADE)
Scale: 12\"/>



10 EMERGENCY SHOWER TEMPERED WATER DIAGRAM
Scale: NONE

ORIGINAL SHEET SIZE IS 24\"/>

Etica GROUP

Applied Engineering Services
5975 Castle Creek Parkway N. Drive, Suite 300 • Indianapolis, Indiana 46250
Tel: 317.810.4141 • Fax: 317.810.4140 • www.applied-es.com

IndyGo
NEW TRAINING FACILITY
IFB 19-12-337

Indianapolis Public Transportation Corporation
1100 West 21st Street
Indianapolis, IN 46202

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PROFESSIONAL SEAL:

IMOTHY M. ANDERSON
REGISTERED PROFESSIONAL ENGINEER
No. PE60910324
STATE OF INDIANA
1/13/20

180024.5

REVISION SCHEDULE			
#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	ADDENDUM 3		3/2/20

DATE ISSUED:	DRAWN BY:	CHECKED BY:
1/13/2020	GEM	TMA

DRAWING TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P501

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PLUMBING EQUIPMENT SCHEDULE

MARK	EQUIPMENT	LOCATION	CAPACITY	MANUFACTURER AND MODEL NUMBER	ELECTRICAL LOADS						REMARKS	
					HP	WATTS	VOLTS	AMPS	PHASE	RPM		
TMV-1	THERMOSTATIC MIXING VALVE	JANITORS CLOSET	17 GPM @ 5 PSI DROP	LAWLER MODEL No. 801	-	-	-	-	-	-	-	THEMOSTATIC MIXING VALVE WITH SHUT-OFF VALVES AND UNIONS ON INLET AND SHUT-OFF VALVE AND THERMOMETER IN OUTLET. MOUNT AT 5'-0" AFF.
TMV-2	THERMOSTATIC MIXING VALVE FOR EMERGENCY SHOWER/EYE WASH	BUS MAINTENANCE BAY AREA	25 GPM @ 5 PSI DROP	LAWLER MODEL SERIES No. 911 UNIT NUMBER 84701	-	-	-	-	-	-	-	THEMOSTATIC MIXING VALVE WITH SHUT-OFF VALVES AND UNIONS ON INLET AND SHUT-OFF VALVE AND THERMOMETER IN OUTLET. SET TO DELIVER 85 DEGREE F. MIXED TEMPERATURE WATER. BRONZE FINISH. CARBON STEEL CABINET, BAKED ENAMEL FINISH. MOUNT AT 5'-0" AFF.
E-SHEW	EMERGENCY SHOWER/EYE WASH STATION	BUS MAINTENANCE BAY AREA	25 GPM @ 5 PSIG PRESSURE DROP	GUARDIAN MODEL G1902P	-	-	-	-	-	-	-	UNIT SHALL MEET ANSI/ISEA Z358.1 - 2009 REQUIREMENTS.
DWH-1	DOMESTIC WATER HEATER	JANITORS CLOSET RM 108	ELECTRIC 10 GALLON CAPACITY	LOCHINVAR JRC010DS	-	1650	120	14	1	-	-	ELECTRIC TANK WATER HEATER. PROVIDE SHELTER IN JANITORS CLOSET. ROUTE SAFETY RELIEF VALVE DISCHARGE PIPE FULL SIZE TO MOP BASIN THROUGH AIR GAP. PROVIDE 20 AMP DEDICATED CIRCUIT BREAKER.
ET-1	EXPANSION TANK	JANITORS CLOSET RM 129	TANK VOL. 2 GAL., MAX. ACCEPT. FACTOR .45	AMTROL - THERM-X-TROL ST-5C	-	-	-	-	-	-	-	AMTROL THERM-X-TROL THERMAL EXPANSION TANK WITH POLYPROPYLENE BLADDER LINER.
DHWP-1	RECIRCULATION PUMP	JANITORS CLOSET RM 129	10 GPM @ 16 FEET HEAD	B&G SERIES PR	ONE SIXTH	-	120	4.4	1	1725	-	ALL BRONZE CONSTRUCTION. PROVIDE STRAP ON AQUASTAT TO START AND STOP PUMP ON 10 DEGREE TEMPERATURE VARIATION IN RETURN MAIN.
WS-1	DOMESTIC WATER SOFTENER	WATER SERVICE ROOM	18 GPM @ 15 PSI DROP	AQUA SYSTEMS MODEL SCII 200VT	-	-	120	-	-	-	1	MEDIA: 2.0 CU FT. GRAINS OF CAPACITY SALT SETTING: 16 LB. GRAINS/LBS. OF SALT: 3000 IRON REDUCTION: MAX. 3PPM DRAIN FLOW: 3.2 GPM. DRAIN SIZE: 5/8". BRINE LINE SIZE: 3/8".
BFP-1	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	WATER SERVICE ROOM	44 GPM @ 12.5 PSI DROP	WATTS 2" # LF99XLS AG WITH STRAINER & AIR GAP FUNNEL	-	-	-	-	-	-	-	MAIN WATER SERVICE LEAD FREE. ROUTE DRAIN FROM BACKFLOW PREVENTER TO FLOOR DRAIN THROUGH AIR GAP.
BFP-3	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	BOILER ROOM	20 GPM @ 12.5 PSI DROP	WATTS 3/4" # LF99 AG WITH AIR GAP FUNNEL	-	-	-	-	-	-	-	BOILER WATER MAKE-UP LEAD FREE. ROUTE DRAIN FROM BACKFLOW PREVENTER TO FLOOR DRAIN THROUGH AIR GAP.
BFP-4	DOUBLE CHECK BACKFLOW PREVENTER	ICE MAKER VALVE BOX (IMVB-1)	1 GPM	WATTS SD2-MN 3/8" MALE FLARE 316 S/S	-	-	-	-	-	-	-	PROVIDE BFP-4 AT ICE MAKER
GPR-1	GAS PRESSURE REGULATOR	MECHANICAL EQUIPMENT ROOM BOILER	500 CFH FROM 2 PSIG TO 7" W.C. PRESSURE	PIETRO FIORENTINI MODEL F 31053-3BS	-	-	-	-	-	-	-	1" NPT VENT LIMITER, BLACK SPRING, 6"-14" RANGE WITH FILTER INSTALLED.
GPR-2	GAS PRESSURE REGULATOR (ALTERNATE BID)	MECHANICAL EQUIPMENT ROOM BOILER	500 CFH FROM 2 PSIG TO 7" W.C. PRESSURE	PIETRO FIORENTINI MODEL F 31053-3BS	-	-	-	-	-	-	-	1" NPT VENT LIMITER, BLACK SPRING, 6"-14" RANGE WITH FILTER INSTALLED. (ALTERNATE BID)
GPR-3	GAS PRESSURE REGULATOR	OUTSIDE NEAR FUTURE EMERGENCY GENERATOR	380 CFH FROM 2 PSIG TO 7" W.C. PRESSURE	SENSUS 143-80-2	-	-	-	-	-	-	-	1-1/4" NPT WITH 1/4" ORIFICE, GREEN SPRING, 5"-15" W.C. RANGE. PROVIDE SIGN TO SAY "ROUGH-IN FOR FUTURE GENERATOR"
GPR-4	GAS PRESSURE REGULATOR	MECHANICAL EQUIPMENT ROOM INFRA RED RADIATION	100 CFH FROM 2 PSIG TO 7" W.C. PRESSURE	PIETRO FIORENTINI MODEL F 31053-3BS	-	-	-	-	-	-	-	1" NPT VENT LIMITER, 6"-14" RANGE WITH FILTER INSTALLED.
OI-1	OIL INTERCEPTOR NO. 1	OUTSIDE SW CORNER OF BUS GARAGE	300 GALLON	ZURN PROCEPTOR MODEL No. OMC 300	-	-	-	-	-	-	-	FIBERGLASS REINFORCED POLYESTER OIL INTERCEPTOR WITH TANGENTIAL FLOW CONTROL, BAFFLE, ACCESS MANHOLES WITH #20 TRAFFIC LOAD AND VENT CONNECTIONS
AC-1	AIR COMPRESSOR	STORAGE ROOM 120	25.3 CFM CAPACITY AT 190 PSIG OPERATING PRESSURE	INGERSOLL-RAND MODEL R7.5I-TAS" COMPRESSOR	10	-	208	41.8	3	-	-	TOTAL AIR SYSTEM. SIMPLEX ROTARY SCREW AIR COMPRESSOR WITH FIXED DRIVE. PARTICULATE FILTER COALESCING FILTER, CONDENSATE FILTER, CONDENSATE MANAGEMENT SYSTEM DRAIN. 69dB, 497 lb. WEIGHT. 120 GALLON HORIZONTAL RECEIVER. ELECTRICAL SINGLE POINT OF CONNECTION.
AD-1	AIR DRYER	COMPRESSOR REFRIGERATED AIR DRYER	26.5 SCFM	PART OF INGERSOLL-RAND MODEL R7.5I-TAS" COMPRESSOR	-	-	120	20	1	-	-	PROVIDE TRANSFORMER WITHIN AIR COMPRESSOR PACKAGE.

MANUFACTURER AND MODEL No. SHOWN ARE BASIS OF DESIGN - OR PROVIDE EQUAL OBTAIN APPROVAL 10 DAYS PRIOR TO BID.
NOTE: THERE IS NO COFFEE MAKER, THEREFORE THERE IS NOT A BFP SCHEDULED FOR A COFFEE MAKER.

PLUMBING FIXTURE SCHEDULE

TAG NO.	DESCRIPTION	PIPE CONNECTIONS					PERFORMANCE		MFG.	MODEL #	MOUNTING HGT	NOTES
		WASTE	VENT	CW	HW	GPM	MPH					
WC-1	WATER CLOSET - (STANDARD)	4"	2"	1"	N/A	1.28	GPF	AMERICAN STANDARD SLOAN REGAL	AFWALL 2257 001 111 1.28 GPF	WALL HUNG 15" RIM AFF	WATER CLOSET. WALL HUNG, 1-1/2" TOP SPUD, 1.28 GPF, ELONGATED BOWL, WHITE VITREOUS CHINA. SEAT: OPEN FRONT LESS COVER WITH SELF SUSTAINING CHECK STOP HINGES, WHITE. FLUSH VALVE: MANUAL. CARRIER: J.R. SMITH SERIES 200	
WC-2	WATER CLOSET - (ADA)	4"	2"	1"	N/A	1.28	GPF	AMERICAN STANDARD SLOAN REGAL	AFWALL 2257 001 111 1.28 GPF	WALL HUNG 16.5" RIM AFF	WATER CLOSET. WALL HUNG, 1-1/2" TOP SPUD, 1.28 GPF, ELONGATED BOWL, WHITE VITREOUS CHINA. SEAT: OPEN FRONT LESS COVER WITH SELF SUSTAINING CHECK STOP HINGES, WHITE. FLUSH VALVE: MANUAL. CARRIER: J.R. SMITH SERIES 200	
WC-3	WATER CLOSET - (ADA)	4"	2"	1"	N/A	1.28	GPF	AMERICAN STANDARD SLOAN REGAL	MADERA 3043 001 111 1.28 GPF	FLOOR MOUNT 16.5" RIM AFF	WATER CLOSET. FLOOR MOUNT 1-1/2" TOP SPUD, 1.28 GPF, ELONGATED BOWL, WHITE VITREOUS CHINA. SEAT: OPEN FRONT LESS COVER WITH SELF SUSTAINING CHECK STOP HINGES, WHITE. FLUSH VALVE: MANUAL.	
UR-1	URINAL (ADA)	2"	1 1/2"	3/4"	N/A	0.125	GPF	AMERICAN STANDARD SLOAN REGAL	WASHBROOK 6590 525 020 186-0.125 GPF	17" LIP AFF	URINAL: WALL HUNG, VITREOUS CHINA. LOW CONSUMPTION 0.125 GPF WASHOUT FLUSH ACTION. 3/4" TOP SPUD, WHITE VITREOUS CHINA. FLUSH VALVE: MANUAL. CARRIER: J.R. SMITH SERIES 0600.	
L-1	LAVATORY (ADA)	1-1/2"	1 1/2"	1/2"	1/2"	0.5	GPM	CORIAN (BY ARCHITECT) AMERICAN STANDARD WATTS TMV BY THIS CONTRACTOR	815P 8055 205.002 LBUSG-B M2	34" TO RIM AFF (OR ARCHITECT SPECIFIED)	LAVATORY: 20-1/2" X 14-3/8" OVAL DOUBLE BOWL INTEGRAL WITH COUNTERTOP. QUANTITY AS SHOWN ON THE DRAWINGS, SPECIFIED BY ARCHITECT. THIS CONTRACTOR SHALL COORDINATE DRAIN AND FAUCET HOLE DRILLING. 4" CENTER SET FAUCET, TRIM AND INSULATION BY THIS CONTRACTOR. FAUCET: DECK MOUNTED, 4" CENTER, BATTERY OPERATED SENSOR FAUCET CHROME FINISH. THERMOSTATIC MIXING VALVE: SET TEMPERATURE LIMIT AT 110 DEG. F. MEET ASSE 1070, LOW LEADNSF81G REQUIREMENTS. MOUNT UNDER COUNTER. TRIM: GRID DRAIN STRAINER; 1-1/2" X 6" TAILPIECE AND ADJUSTABLE 1-1/2" P-TRAP WITH C.O. QUARTER TURN ANGLE STOPS; FLEXIBLE RISERS. INSULATION: WHITE FLEXIBLE DRAIN AND SUPPLIES INSULATION KIT.	
L-2	LAVATORY (ADA)	1 1/2"	1 1/2"	1/2"	1/2"	0.5	GPM	CORIAN (BY ARCHITECT) WATTS TMV BY THIS CONTRACTOR	815P LBUSG-B M2	34" TO RIM AFF (OR ARCHITECT SPECIFIED)	LAVATORY: 20-1/2" X 14-3/8" OVAL SINGLE BOWL INTEGRAL WITH COUNTERTOP. QUANTITY AS SHOWN ON THE DRAWINGS, SPECIFIED BY ARCHITECT. THIS CONTRACTOR SHALL COORDINATE DRAIN AND FAUCET HOLE DRILLING. 4" CENTER SET FAUCET, TRIM AND INSULATION BY THIS CONTRACTOR. FAUCET: DECK MOUNTED, 4" CENTER, BATTERY OPERATED SENSOR FAUCET CHROME FINISH. THERMOSTATIC MIXING VALVE: SET TEMPERATURE LIMIT AT 110 DEG. F. MEET ASSE 1070, LOW LEADNSF81G REQUIREMENTS. MOUNT UNDER COUNTER. TRIM: GRID DRAIN STRAINER; 1-1/2" X 6" TAILPIECE AND ADJUSTABLE 1-1/2" P-TRAP WITH C.O. QUARTER TURN ANGLE STOPS; FLEXIBLE RISERS. INSULATION: WHITE FLEXIBLE DRAIN AND SUPPLIES INSULATION KIT.	
EW-C-1	BI-LEVEL ELECTRIC WATER COOLER (ADA)	1 1/2"	1 1/2"	1/2"	N/A	8	GPH	ELKAY	LVRGCRNTLBSWK	39-7/16" TO ORIFICE (STD) 33-15/16" TO ORIFICE (ADA)	ELECTRIC WATER COOLER: BI-LEVEL STANDARD AND BARRIER FREE; WATER COOLER; WALL HUNG. STAINLESS STEEL CABINET AND BASIN. 115V/60HZ. 280 W. 4FLA; WITH EZH2O BOTTLE FILLER STATION. FRONT PUSH BUTTON OPERATION. BOTTLE FILLING STATION SHALL INCLUDE AN ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION. CARRIER: ELKAY MOUNTING FRAME CORROSION RESISTANT GALVANIZED STEEL.	
MB-1	MOP BASIN	3"	1 1/2"	3/4"	3/4"	3	GPM	FIAT CHICAGO FAUCET	MSB 2424 445-897SRCKXCP	FLOOR MOUNTED	MOP BASIN: MOLDED STONE. 24" X 24" X 10. 3" DRAIN. FAUCET: EXPOSED WALL MOUNTED UTILITY FAUCET. WITH TOP BRACE, PAIL HOOK, OFF SET SHANKS, ESCUTCHEON PLATES, VACUUM BREAKER, INTEGRAL CHECK STOPS, CHROME PLATED. ACCESSORIES: FIAT 832-AA HOSE AND WALL BRACKET. 899-CC MOP HANGER; E-88-AA SS BUMPER GUARD; MSG2424 WALL GUARD, DRAIN CONNECTOR.	
S-1	DOUBLE BOWL SINK (COUNTER-TOP DROP IN)	2"	1 1/2"	1/2"	1/2"	2	GPM	ELKAY ZURN	LR-3322 6920-GC	COUNTER-TOP DROP-IN	DOUBLE BOWL SINK: 18 GAUGE, TYPE 302 STAINLESS STEEL COUNTER TOP SINK. 33" X 22" X 8" DEEP. DRAIN OPENING 3-1/2" SIZE. 2" P-TRAP FAUCET. THIS FINISHING TO MATCH FAUCET. FAUCET: AQUASENSE BATTERY POWERED SENSOR FAUCET WITH SENSOR IN THE BASE OF 8" GOOSE NECK FAUCET. IN-LINE FILTER, 2 GPM VANDAL RESISTANT AERATOR, 6 VDC PLUG IN POWER CONVERTER, AND AN INLET FOR A 1/2" BALL RISER FACTORY SET TEMP. INSULATION KIT: WHITE FLEXIBLE DRAIN AND SUPPLIES INSULATION KIT.	
WH-1	WALL HYDRANT	N/A	N/A	3/4"	N/A	5	GPM	JR SMITH	5509 QT-NB	18" AFG	WALL HYDRANT: NON-FREEZE WALL HYDRANT, RECESSED LOCKING BOX COVER, INTEGRAL VACUUM BREAKER, NICKEL BRONZE FINISH WITH LOOSE KEY.	
HB-1	HOSE BIBB	N/A	N/A	3/4"	N/A	5	GPM	CHICAGO	952 CP	12" AFF	HOSE BIBB: INTEGRAL VACUUM BREAKER, CHROME FINISH WITH GARDEN HOSE THREADS ON OUTLET.	
GD-1	GARBAGE DISPOSER	1-1/2"	N/A	N/A	N/A	-	-	IN-SINK-ERATOR	BADGER V	MOUNT WHERE SHOWN	GARBAGE DISPOSER: ELECTRICAL: 1/2 HP. 120V-1PH-60HZ. 0.38kw, 9.8 FLA.	
IMVB-1	ICE MAKER VALVE BOX WITH BFP-4	N/A	N/A	1/2"	N/A	0.5	GPM	OATEY	39156	12" AFF	ICE MAKER VALVE BOX: WHITE RECESSED OPEN BOX. PROVIDE A 1/4" QUARTER TURN SHUT OFF VALVE IN BOX FOR FUTURE ICE MAKER. REDUCE FROM 1/2" CW TO 3/8" CW FOR BFP-4 AT BOX. COORDINATE FINAL LOCATION WITH ARCHITECT.	

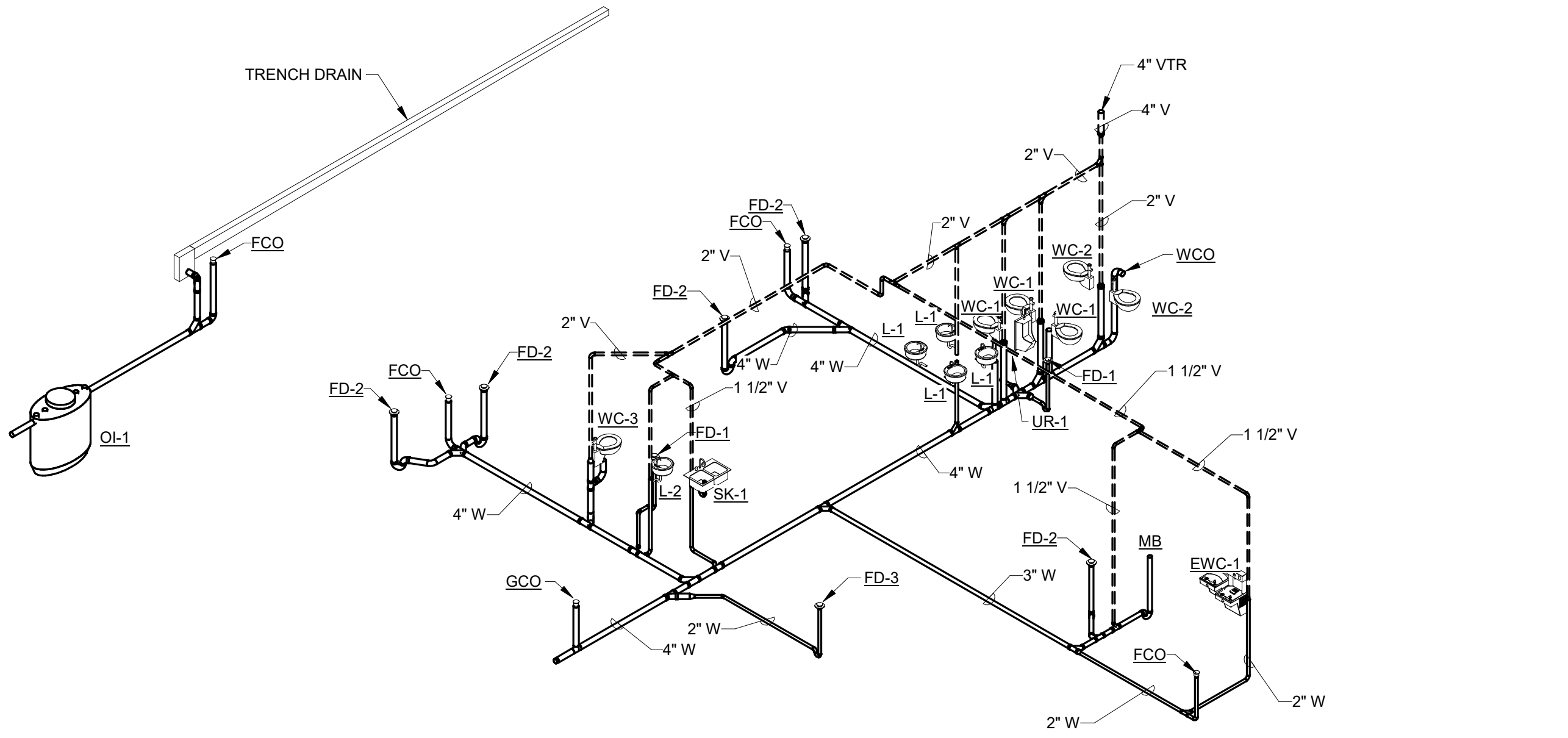
DRAINAGE FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
FD-1	J. R. SMITH	2005-C-PB	FLOOR DRAIN DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE ROUND POLISHED BRONZE STRAINER	SIZE AS INDICATED ON FLOOR PLANS. PROVIDE SURESEAL TRAP SEAL IN EACH FLOOR DRAIN
FD-2	J. R. SMITH	2142C-CHU	FLOOR DRAIN DUCO CAST IRON BODY WITH FLASHING COLLAR AND FULL CAST IRON GRATE.	MECHANICAL EQUIPMENT ROOMS SIZE AS INDICATED ON FLOOR PLANS. PROVIDE SURESEAL TRAP SEAL IN EACH FLOOR DRAIN.
FD-3	J. R. SMITH	2005-C-PB-A07-F37	FLOOR DRAIN DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE ROUND TOP ANTI FLOOD RIM POLISHED BRONZE STRAINER.	SIZE AS INDICATED ON FLOOR PLANS. PROVIDE SURESEAL TRAP SEAL IN EACH FLOOR DRAIN.
TD-1	J.R. SMITH	9931-HDF	ENVIRO-FLO II EXTRA HEAVY DUTY DRAIN SYSTEM 9870-461-M DUCTILE IRON SLOTTED GRATE AND DUCTILE IRON FRAME	ASME EXTRA HEAVY DUTY LOAD CLASS (1040PSI)
CB-1	J.R. SMITH	9936-20	EXTRA HEAVY DUTY ENVIRO-FLO II INLINE CATCH BASIN	ASME EXTRA HEAVY DUTY LOAD CLASS (1040PSI)

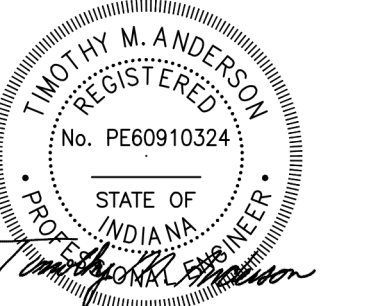
MANUFACTURER AND MODEL No. SHOWN ARE BASIS OF DESIGN - OR PROVIDE EQUAL OBTAIN APPROVAL 10 DAYS PRIOR TO BID.

WATER HAMMER ARRESTER SCHEDULE

MARK	IPS SIZE	FIXTURE RATING	PRESSURE RATING	J.R. SMITH MOD. NO.	WADE MOD. NO.	ZURN MOD. NO.	REMARKS
WHA-A	3/4"	1 TO 11	150 PSIG	5005	W-5	100	P.D.I. CERTIFIED
WHA-B	1"	12 TO 32	150 PSIG	5010	W-10	200	P.D.I. CERTIFIED
WHA-C	1"	33 TO 80	150 PSIG	5020	W-20	300	P.D.I. CERTIFIED
WHA-D	1"	81 TO 113	150 PSIG	5030	W-50	400	P.D.I. CERTIFIED
WHA-E	1"	114 TO 154	150 PSIG	5040	W-75	500	P.D.I. CERTIFIED



5 WASTE AND VENT
Scale:



1/13/20

180024.5

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	ADDENDUM 3		3/2/20

DATE ISSUED: 1/13/2020

DRAWN BY: GEM

CHECKED BY: TMA

DRAWING TITLE:

PLUMBING SCHEDULES

SHEET NUMBER:

P601

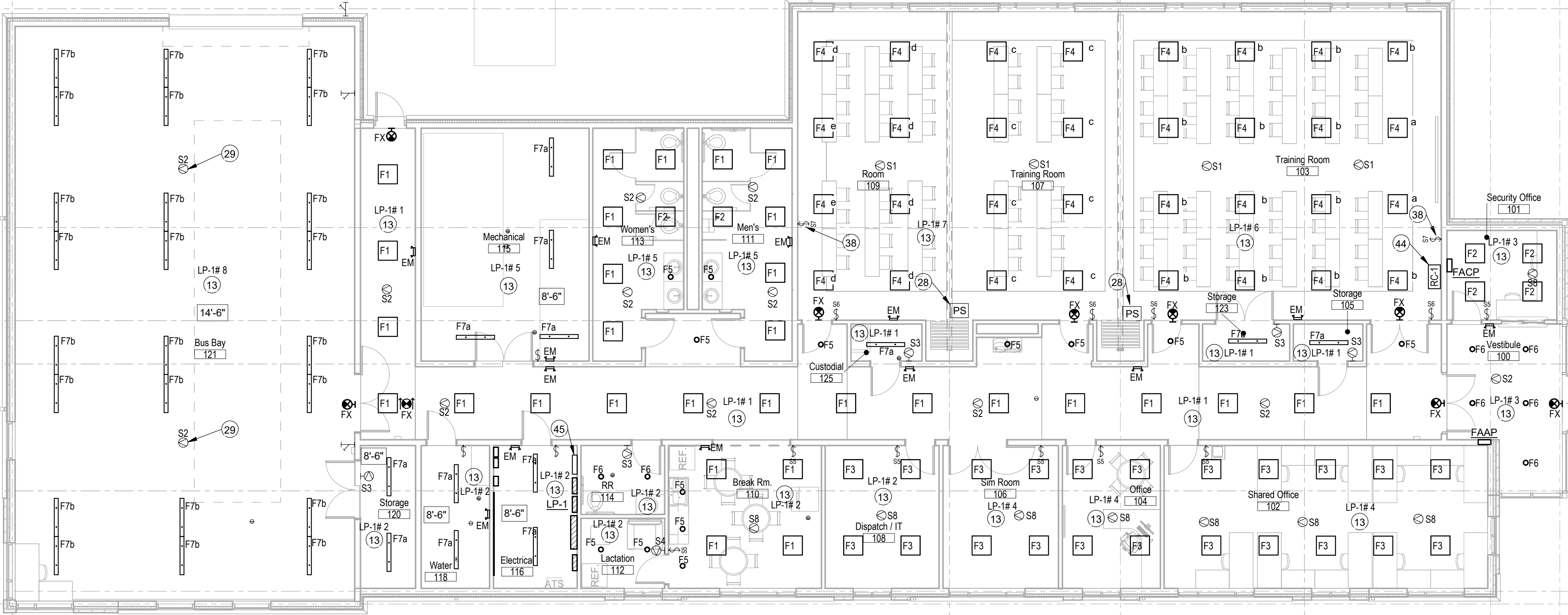
SENSITIVE SECURITY INFORMATION

GENERAL NOTES:

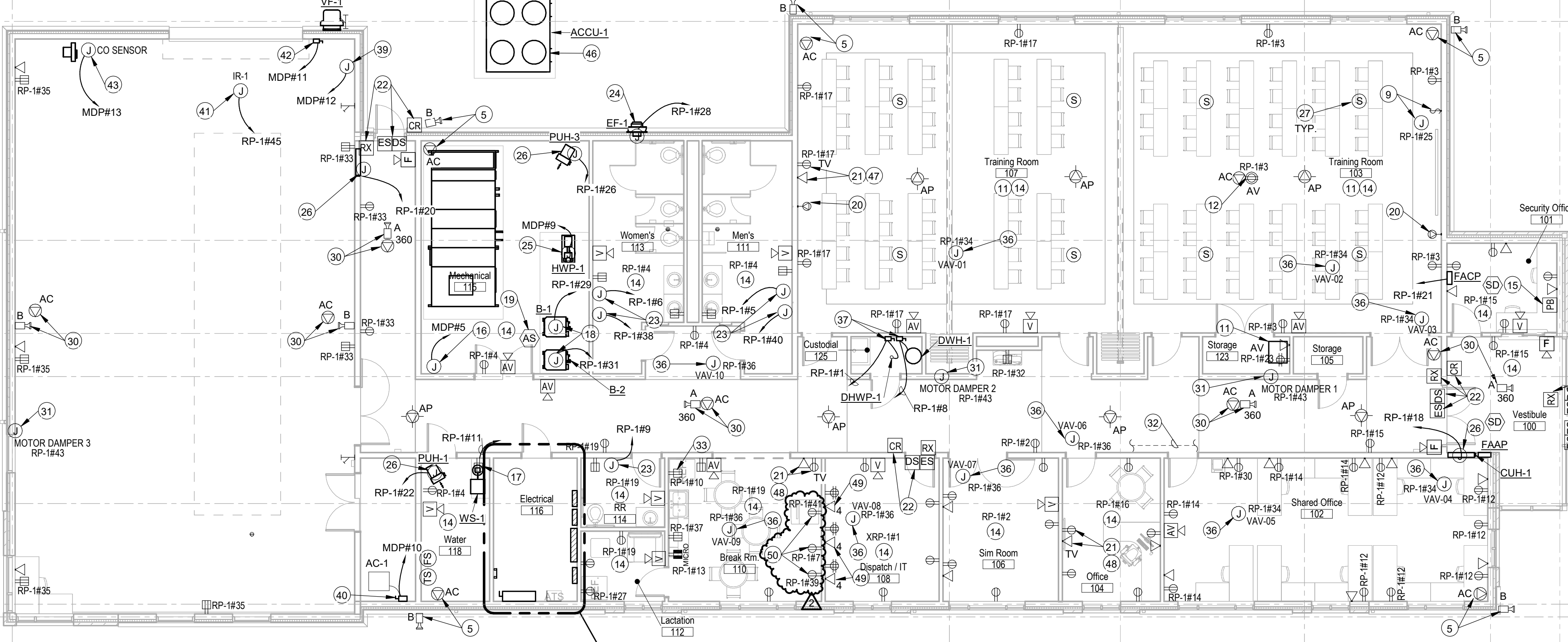
1. REFER TO DRAWING E002 FOR GENERAL NOTES.

PLAN NOTES:

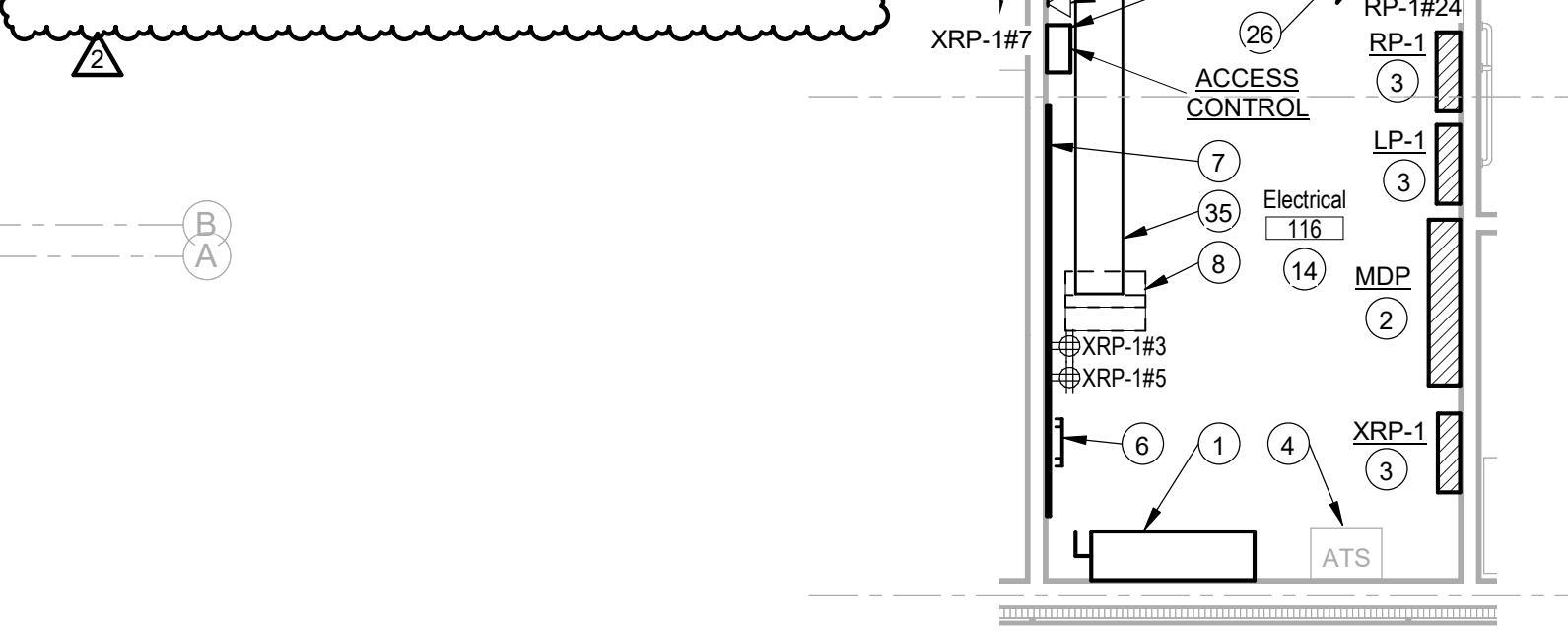
- PROVIDE 1200A SERVICE ENTRANCE RATED DISCONNECT FUSIBLE SWITCH, REFER TO DETAIL 1 ON DRAWING E503 FOR ADDITIONAL INFORMATION.
- PROVIDE 1200A 120/208V MAIN DISTRIBUTION PANELBOARD (MDP), REFER TO RISER AND PANEL SCHEDULE ON DRAWING E503 & E601 FOR ADDITIONAL INFORMATION.
- PROVIDE 120/208V LIGHTING PANEL (LP-1), POWER PANEL (RP-1) AND POWER PANEL (XRP-1), REFER TO PANEL RISER AND SCHEDULES ON DRAWING E503 & E601 FOR ADDITIONAL INFORMATION.
- PROVIDE J-BOX AND MAINTAIN 3" OF WALL SPACE FOR FUTURE 200A, 3 POLE, 120/208V THREE PHASE, OPEN TRANSITION AUTOMATIC TRANSFER SWITCH, NEMA 1 ENCLOSURE. ATS NOT PROVIDED FOR THIS PROJECT.
- PROVIDE DATA JACK AND CAMERA JACK FOR POE CAMERAS SHALL BE LOCATED INSIDE THE BUILDING IN ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE RACEWAY AND CABLE THROUGH WALL AS REQUIRED. SOUTH SIDE CAMERAS SHALL BE MOUNTED AT 11'-0" ABOVE GRADE AND NORTH SIDE CAMERAS SHALL BE MOUNTED AT 13'-0" ABOVE GRADE. COORDINATE FINAL LOCATION AND FIELD OF VIEW OF CAMERA WITH OWNER'S SECURITY GROUP PRIOR TO DATA JACK AND CAMERA INSTALLATION. PROVIDE CAMERA WITH MOUNTING BRACKETS AS REQUIRED.
- PROVIDE MAIN GROUNDING BUSBAR (MGB), REFER TO DETAIL 2 ON DRAWING E503.
- PROVIDE 3/4" FIRE RETARDANT PLYWOOD FROM 6" AFF TO 8'-6" AFF, LENGTH AS SHOWN ON DRAWING. PLYWOOD SHALL BE INSTALLED ON WALL ADJACENT TO RACK.
- BDF EQUIPMENT FRAME, REFER TO DETAIL 3 ON DRAWING E502.
- PROVIDE POWER TO OVERHEAD SCREEN, THIS INCLUDES ROUGH-IN, RACEWAY AND WIRE. OVERHEAD SCREEN AND SWITCH PROVIDED BY DIVISION 11 CONTRACTOR. COORDINATE WITH ARCHITECT ON LOCATION.
- PROVIDE SIMPLEX-CURE 9000 ACCESS CONTROL CONTROLLER PANEL. ALL DEVICES AND EQUIPMENT SHALL BE A SIMPLEX SYSTEM, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. POINT OF CONTACT IS RICH MCGEE WITH JOHNSON CONTROL, PHONE 317-917-5028. PROVIDE DATA JACK AND CABLE DEDICATED FOR ACCESS CONTROL PANEL, COORDINATE WITH SIMPLEX ON TERMINATION OF DATA CABLE. PROVIDE TWO (2) POWER SUPPLIES AS REQUIRED, ONE FOR POWER TO CONTROL PANEL AND OTHER POWER SUPPLY IS FOR BUS TAG READER FOR NORTH LOT ENTRY.
- PROVIDE AV RACK AND CONTROLLER(S) FOR 1, 2 & 3 ROOM OPERATION. THE EAST SIDE OF ROOM IS THE MAIN SIDE VIEWED WHEN IN SINGLE ROOM, WEST ROOMS ARE SECONDARY SIDE. WHEN PARTITION IS CLOSED THE MAIN AND SECONDARY SIDES WILL OPERATE INDEPENDENTLY FROM EACH OTHER. WHEN PARTITION(S) ARE OPEN THE SECONDARY SIDES BECOME PART OF MAIN SIDE. THE AV SYSTEM SHALL CONSIST OF CONTROLLER(S), SPEAKERS, AV RACK AND WIRELESS MICROPHONE FOR PRIMARY SIDE ONLY. SYSTEM SHALL BE A DELEGATED DESIGN, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. SCREEN AND DISPLAY/TV SHALL BE PROVIDED BY DIVISION 11 CONTRACTOR. COORDINATE WITH ARCHITECT ON PLACEMENT OF DISPLAYS AND SCREEN PRIOR TO ROUGH-IN.
- PROVIDE OVERHEAD PROJECTOR AND COORDINATE WITH PROJECTOR AND SCREEN MANUFACTURERS ON LOCATION PRIOR TO ROUGH-IN. PROVIDE RACEWAY AND CABLES FROM AV RACK TO PROJECTOR AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CONNECT LIGHTING FIXTURES IN THIS ROOM TO CIRCUIT INDICATED UNLESS NOTED OTHERWISE.
- CONNECT RECEPTACLES IN THIS ROOM TO CIRCUIT INDICATED UNLESS NOTED OTHERWISE.
- PROVIDE MOMENTARY REMOTE DOOR RELEASE TIED INTO ACCESS CONTROL SYSTEM. COORDINATE WITH OWNER ON LOCATION AND STYLE OF BUTTON PRIOR TO ROUGH-IN.
- PROVIDE POWER 3/4" (3) #8 AWG & (1) #10 GND TO AHU-1 FROM POWER SOURCE SHOWN. SAFETY SWITCH AND VFD FOR AHU-1 SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR, COORDINATE WITH MECHANICAL DRAWINGS ON LOCATION.
- PROVIDE GFCI RECEPTACLE, DEDICATED CIRCUIT FOR WS-1, COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION OF EQUIPMENT AND LENGTH OF CORD.
- PROVIDE POWER 3/4" (2) #10 AWG & (1) #10 GND TO B-1 (BASE BID) & B-2 (ALTERNATE) FROM POWER SOURCE SHOWN. MOTOR STARTER FOR B-1 & B-2 FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR, COORDINATE LOCATION WITH MECHANICAL DRAWINGS ON LOCATION.
- FIRE ALARM BELL INDICATOR SHALL BE INSTALLED WITHIN RETURN DUCT, COORDINATE WITH MECHANICAL CONTRACTOR ON LOCATION. UPON SMOKE DETECTED A CONTROL MODULE SHALL SHUT DOWN AHU, COORDINATE WITH MECHANICAL CONTROLS CONTRACTOR ON SHUT DOWN CIRCUIT.
- PROVIDE SPECIAL PURPOSE RECEPTACLES FOR AV SYSTEM - ONE BOX AT 18" AND 1 BOX AT 48". THE BOX AT 18" SHALL INCLUDE HDMI INPUT, VGA INPUT AND THE BOX AT 48" SHALL INCLUDE VOLUME CONTROL AND SELECTOR SWITCH FOR SELECTING MEDIA INPUTS. DEVICES MUST BE COMPATIBLE WITH MANUFACTURER OF AV EQUIPMENT AND BE PROVIDED WITH PROPER COVER PLATE. PROVIDE RACEWAY AND CABLES TO AV RACK AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- COORDINATE MOUNTING HEIGHT OF DEVICE WITH ARCHITECTURAL PLANS AND OWNER PRIOR TO ROUGH-IN.
- PROVIDE DEVICES, RACEWAY, WIRING, AND TERMINATIONS FOR ACCESS CONTROL SYSTEM. CONNECT SYSTEM TO ROOM POWER CIRCUIT. PROVIDE PROPER CABLE, RACEWAY, TERMINATIONS, ETC FOR COMPLETE SYSTEM, WIRED TO ELECTRICAL ROOM. COORDINATE WITH OWNER. REFER TO DRAWING E503 FOR ADDITIONAL INFORMATION.
- PROVIDE POWER 3/4" (2) #10 AWG & (1) #10 GND TO HAND DRYER FROM POWER SOURCE SHOWN. COORDINATE WITH ARCHITECTURAL DRAWINGS ON LOCATION.
- PROVIDE POWER 3/4" (2) #12 AWG & (1) #12 GND TO EF-1 FROM POWER SOURCE SHOWN. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- PROVIDE POWER 3/4" (3) #12 AWG & (1) #12 GND TO HWP-1 FROM POWER SOURCE SHOWN. MOTOR STARTER FOR HWP-1 SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR, COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- PROVIDE POWER 3/4" (2) #12 AWG & (1) #12 GND TO UNIT HEATER FROM POWER SOURCE SHOWN. DISCONNECT SWITCH SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR, COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- PROVIDE SPEAKERS AS PART OF DELEGATED DESIGN, QUANTITY SHALL BE VERIFIED WITH TYPE SELECTED AND SIZE OF ROOM.
- PROVIDE PARTITION SENSOR FOR LIGHTING CONTROL, REFER TO DETAIL 1 ON DRAWING E501. COORDINATE WITH ARCHITECTURAL DETAILS ON TYPE OF FURNITURE PARTITION.
- OCCUPANCY SENSOR SHALL BE STEM MOUNTED AT SAME ELEVATION AS BOTTOM OF LIGHTING FIXTURES IN THIS SPACE.
- PROVIDE DATA JACK AND CAMERA JACK FOR POE CAMERAS SHALL BE LOCATED IN ACCESSIBLE LOCATION ABOVE CEILING OR HIGH ON WALL IN EXPOSED TO DECK AREA. CAMERA SHALL BE CEILING MOUNTED COORDINATE FINAL LOCATION AND FIELD OF VIEW OF CAMERA WITH OWNER'S SECURITY GROUP PRIOR TO DATA JACK AND CAMERA INSTALLATION. PROVIDE CAMERA WITH MOUNTING BRACKETS AS REQUIRED.
- PROVIDE POWER 3/4" (2) #12 AWG & (1) #12 GND TO DAMPER MOTOR FROM POWER SOURCE SHOWN. MECHANICAL CONTRACTOR SHALL PROVIDE CONTROL TRANSFORMER, COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- PROVIDE J-HOOKS AS REQUIRED FOR SUPPORT OF DATA CABLES. MOUNT ABOVE CEILING IN ACCESSIBLE LOCATION ALONG WALL OF CORRIDOR TO ELECTRICAL ROOM.
- PROVIDE TRIP UNIT FOR GFCI RECEPTACLE ABOVE SINK IN ACCESSIBLE LOCATION. COORDINATE LOCATION WITH OWNER AND ENGINEER PRIOR TO ROUGH-IN.
- PROVIDE (2) EZ-PATH SMOKE 3" SQUARE ASSEMBLIES FOR HORIZONTAL CABLES. COORDINATE HEIGHT AND LOCATION WITH CABLE RUNWAY AND OTHER TRADES.
- PROVIDE SECTION OF 12" LADDER CABLE RUNWAY, HEIGHT SHALL BE COORDINATED WITH TOP OF EQUIPMENT FRAME TO ENSURE CABLE TRANSITION FROM TRAY TO EQUIPMENT RACK.
- PROVIDE POWER 3/4" (2) #12 AWG & (1) #12 GND TO VAV BOX FROM POWER SOURCE SHOWN. MECHANICAL CONTRACTOR SHALL PROVIDE CONTROL TRANSFORMER, COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- PROVIDE 30A GENERAL DUTY 240V NON-FUSED SAFETY SWITCH, SWITCH SHALL BE TYPE 1 ENCLOSURE. MOUNT SWITCH TO WALL, PROVIDE CHANNEL STRUT FRAME AS REQUIRED. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR AND OTHER TRADES.
- COORDINATE SWITCH LOCATION WITH ARCHITECT.
- PROVIDE ELECTRICAL CONNECTION FOR VF-1. PROVIDE 3/4", (3) #12 AWG, (1) #12 GND TO PANEL AND CIRCUIT SHOWN. COORDINATE WITH CONTROLS CONTRACTOR, REFER TO SEQUENCE OF OPERATION. EC SHALL INSTALL FURNISHED DISCONNECT.
- PROVIDE HEAVY DUTY NEMA 3, 60A, 240V RATED NON-FUSED SAFETY DISCONNECT SWITCH FOR AC-1. MOUNT SWITCH ON WALL NEAR UNIT, PROVIDE CHANNEL STRUT FRAME AS REQUIRED. PROVIDE 3/4", (3) #12 AWG, (1) #12 GND TO PANEL AND CIRCUIT SHOWN.
- PROVIDE ELECTRICAL CONNECTION FOR IR-1. PROVIDE 3/4", (3) #12 AWG, (1) #12 GND TO PANEL AND CIRCUIT SHOWN. COORDINATE WITH MECHANICAL CONTRACTOR ON LOCATION.
- PROVIDE HEAVY DUTY NEMA 3, 30A, 240V RATED NON-FUSED SAFETY DISCONNECT SWITCH FOR OVERHEAD DOOR. MOUNT SWITCH ON WALL NEAR DOOR OPERATOR, PROVIDE CHANNEL STRUT FRAME AS REQUIRED. PROVIDE 3/4", (3) #12 AWG, (1) #12 GND TO PANEL AND CIRCUIT SHOWN.
- PROVIDE ELECTRICAL CONNECTION FOR CO SENSOR. PROVIDE 3/4", (3) #12 AWG, (1) #12 GND TO PANEL AND CIRCUIT SHOWN. COORDINATE WITH MECHANICAL CONTRACTOR ON LOCATION.
- PROVIDE ROOM CONTROLLER WITH PLENUM RATED ENCLOSURE, INSTALL ABOVE LAY-IN CEILING, MOUNT HIGH ON WALL NEAR DOOR. COORDINATE LOCATION WITH OWNER. PROVIDE LABEL ON ROOM CONTROLLER J-BOX OR ENCLOSURE. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
- PROVIDE LIGHTING CONTACTOR LC-1, REFER TO LIGHTING CONTACTOR DETAIL FOR ADDITIONAL INFORMATION.
- POWER FOR ACCU-1 SHOWN ON DRAWING E201.
- PROVIDE RACEWAY AND CABLES FROM AV RACK TO TV/MONITOR AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE COAX JACK ADJACENT TO DATA JACK, ROUTE COAX CABLE INTO ELECTRICAL ROOM WITH ENOUGH SLACK FOR TERMINATION TO TAKE PLACE AT EQUIPMENT RACK. TERMINATION TO BE DONE BY OWNER, COORDINATE WITH OWNER.
- PROVIDE DATA OUTLET CONSISTING OF FOUR (4) DATA JACKS IN EACH OUTLET, TWO JACKS SHALL BE COLOR OF BLUE AND TWO JACKS SHALL BE COLOR OF WHITE TO MATCH REST OF NETWORK JAKES. COORDINATE COLOR OF JACKS WITH OWNER.
- PROVIDE CIRCUIT WITH GFCI BREAKER WITHIN ELECTRICAL PANEL.



FIRST FLOOR LIGHTING PLAN
Scale: 1/8" = 1'-0"



FIRST FLOOR POWER & SYSTEMS PLAN
Scale: 1/8" = 1'-0"



ENLARGED ELECTRICAL ROOM PLAN
Scale: 1/4" = 1'-0"



Applied
Engineering Services
5975 Castle Parkway N, Drive, Suite 300 • Indianapolis, Indiana 46250
Tel: 317.810.4141 • Fax: 317.810.4140 • www.applied-es.com

IndyGo
NEW TRAINING FACILITY
1100 West 21st Street
Indianapolis, IN 46202
1FB 19-12-337

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1/13/20

180024.5

REVISION SCHEDULE			
#	DESCRIPTION	DATE	BY
1	ADDENDUM 3	3/2/20	DAG
2	ADDENDUM 2	DAG	2/25/20

DATE ISSUED: 1/13/2020
DRAWN BY: DAG
CHECKED BY: LDH

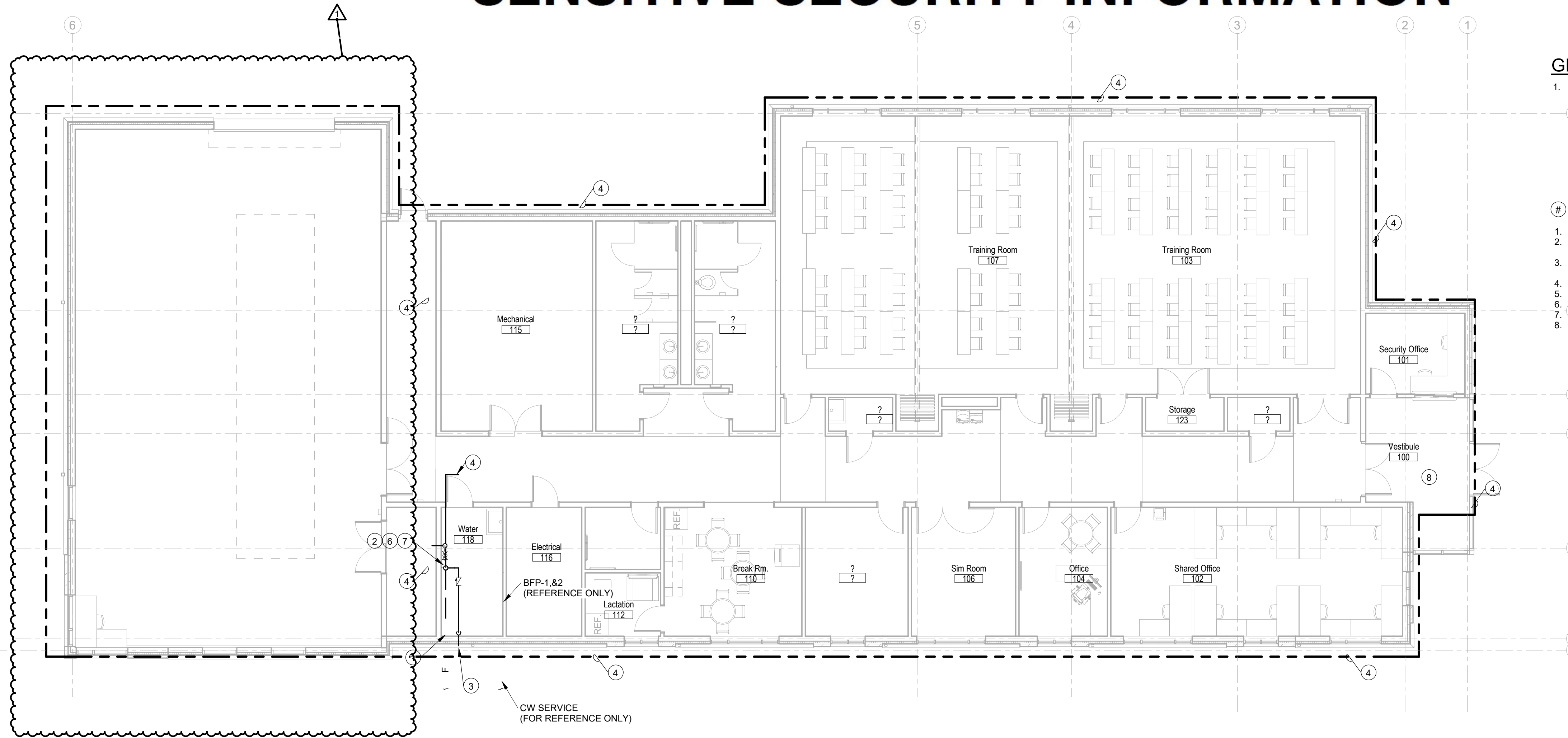
FIRST FLOOR LIGHTING AND POWER & SYSTEMS PLANS

SHEET NUMBER:
E301

ORIGINAL SHEET SIZE IS 24" X 36" (ARCH D)
2/26/2020 10:38:51 AM AESI Proj. No. 18-004

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SENSITIVE SECURITY INFORMATION



GENERAL NOTES:

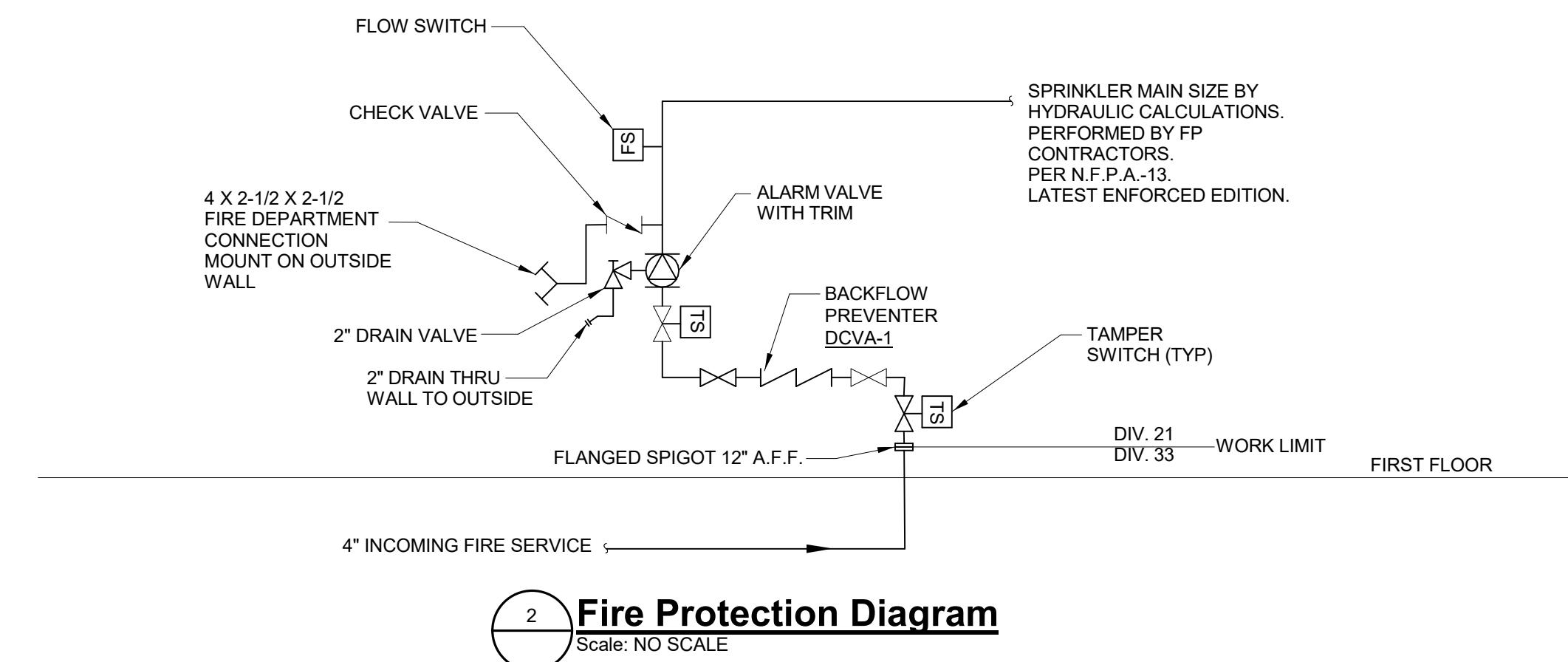
- SEE DRAWING P001 FOR GENERAL NOTES AND SYMBOLS.

PLAN NOTES:

- INCOMING FIRE PROTECTION SERVICE FROM BELOW.
- 4" FP WET SPRINKLER SYSTEM PER NFPA-13 LATEST ENFORCED EDITION. SEE FP DIAGRAM THIS DRAWING.
- 4" x 2-1/2" x 2-1/2" WALL MOUNTED FDC LIKE CROKER FIGURE NUMBER 6010, CHROME PLATED.
- SIZE BY HYDRAULIC CALCULATIONS PERFORMED BY FP CONTRACTOR.
- CHECK VALVE WITH BALL DRIP.
- 2" DRAIN VALVE DISCHARGE TO F.D. OR OUTSIDE.
- 4" FP UP WITH 4" WET PIPE ALARM VALVE WITH TRIM.
- PROVIDE SIDE WALL HEADS IN VESTIBULE RM 100.

FIRST FLOOR FIRE PROTECTION PLAN

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



2 Fire Protection Diagram
Scale: NO SCALE

FIRE PROTECTION EQUIPMENT SCHEDULE

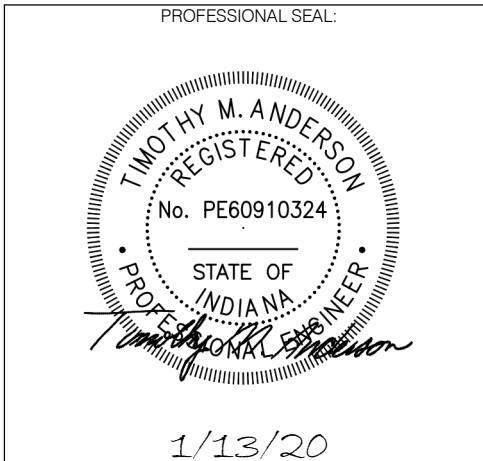
TAG NO.	DESCRIPTION	LOCATION	CAPACITY	ELECTRICAL LOAD		BASIS OF DESIGN			NOTES
				HP	VOLTPH	MFG.	MODEL #	WGT. (LBS)	
DCVA-1	DOUBLE DETECTOR CHECK VALVE ASSEMBLY	WATER ROOM	500 GPM @ 5 PSI DROP	N/A	N/A	AMES	4" 3000SS-OSY	240	OS&Y GATE VALVES



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5975 Castle Creek Parkway N Drive, Suite 300 • Indianapolis, Indiana 46250
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NEW TRAINING FACILITY
IFB 19-12-337
Indianapolis Public Transportation Corporation
1100 West 21st Street
Indianapolis, IN 46202

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REVISION SCHEDULE			
#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	ADDENDUM 3		3/2/20

DATE ISSUED:	DRAWN BY:	CHECKED BY:
1/13/2020	GEM	TMA

DRAWING TITLE:
FIRST FLOOR FIRE PROTECTION PLAN, DETAILS, AND SCHEDULES

SHEET NUMBER:
FP301

ORIGINAL SHEET SIZE IS 24" X 36" (ARCH D)
2/26/2020 11:33:56 AM AESI Proj. No. 18-064

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