

BUILDING ENVELOPE

OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS (IECC TABLE C402.1.3)

BUILDING ELEMENT	MIN. R-VALUE**	R-VALUE PROVIDED	CODE
WALLS - WOOD FRAMED	20	20	2015 IECC - TABLE C402.1.3
ROOF	38	39	2015 IECC - TABLE C402.1.3
FLOORS - SLAB ON GRADE	NOT REQUIRED	0	2015 IECC - TABLE C402.1.3
CLIMATE ZONE	2A, BALDWIN COUNTY		2015 IECC - TABLE 301.1

PLUMBING FIXTURE SCHEDULE (IBC TABLE 2902.1)

OCC CLASS	OCCUPANT LOADS	WATER CLOSETS		LAVATORIES	DRINKING FOUNTAIN	OTHER
		MALE	FEMALE	MALE/FEMALE EACH		
A-3 ASSEMBLY	127	1 PER 125	1 PER 65	1 PER 200	1 PER 500	1 SERVICE SINK
B BUSINESS	32	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR REMAINDER	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE...	1 PER 40 EACH	1 PER 100	1 SERVICE SINK
		0.64	0.64	0.4 EACH	0.32	
TOTAL REQD	159	1.15	1.62	0.72 EACH	0.57	
TOTAL PROVIDED		9	9	6 EACH	5	6 SERVICE SINKS

CODE REVIEW

REFER SITE & CIVIL PACKAGE FOR ADDITIONAL INFORMATION SUCH AS FIRE DEPARTMENT ACCESS.

APPLICABLE CODES

2021 INTERNATIONAL BUILDING CODE
 2021 INTERNATIONAL FIRE CODE
 2021 INTERNATIONAL FUEL & GAS CODE
 2021 INTERNATIONAL MECHANICAL CODE
 2018 INTERNATIONAL PLUMBING CODE
 2020 NATIONAL ELECTRICAL CODE (NFPA 70)
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
 CITY OF GULF SHORES SUPPLEMENTAL REQUIREMENTS

GENERAL BUILDING HEIGHTS AND AREAS (Chapter 5)

OCCUPANCY CLASSIFICATION: MIXED OCCUPANCY (UNSEPARATED) BUSINESS ASSEMBLY (GROUP B) (GROUP A-3)

CONSTRUCTION TYPE: TYPE VB
 AUTOMATIC SPRINKLER SYSTEM: NO

ALLOWABLE AREAS:
 A-3 = 6,000 SF (NOT SPRINKLED)
 B = 9,000 SF (NOT SPRINKLED)

ALLOWABLE HEIGHT ABOVE GRADE (VB): A-3-B = 40 FT
 ALLOWABLE NUMBER OF STORIES (VB): A-3 = 1 STORY
 PROJECT AREAS: 6,551 SF (UNDER ROOF)

BUILDING FRONTAGE IS FULLY OPEN ON ALL SIDES PER IBC 506.3.2 AND 506.3.3, INCREASING THE ALLOWABLE AREA (A-3) BY 75% TO 10,500 SF.

BUILDING OCCUPANCIES ARE NONSEPARATED PER IBC 508.3 WITH A-3 OCCUPANCY BEING THE MOST RESTRICTIVE.

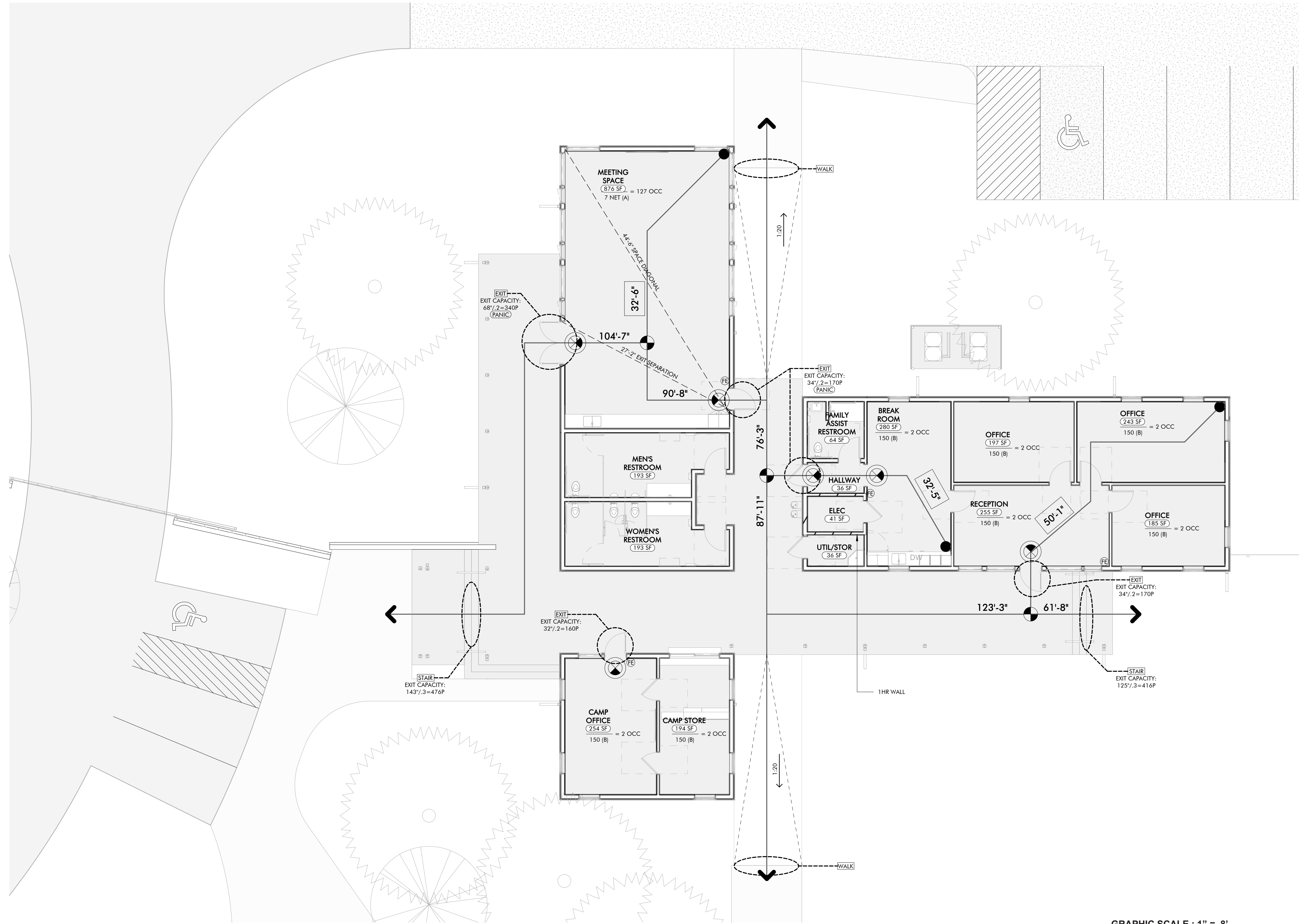


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TYPES OF CONSTRUCTION (Chapter 6)

STRUCTURAL ELEMENTS CONSIST OF CONCRETE SLAB ON ON GRADE WITH WOOD FRAMED WALLS AND SHOP-FABRICATED WOOD TRUSSES.

NO FIRE-RESISTANT ASSEMBLIES REQUIRED FOR BUILDING ELEMENTS OR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE PER IBC TABLES 601 AND 705.5.

FIRE AND SMOKE PROTECTION FEATURES (Chapters 7 & 9)

FOR ELEVATIONS WITH FIRE SEPARATION DISTANCE OF 20'-0" TO LESS THAN 25'-0", ONLY 45% OF ELEVATION IS ALLOWED TO BE OPEN WITHOUT PROTECTION PER IBC TABLE 705.8

PER IBC 903.2.1.3, AUTOMATIC SPRINKLERS ARE NOT REQUIRED. ASSEMBLY (A-3) OCCUPANT LOAD IS LESS THAN 300; FIRE AREA DOES NOT EXCEED 12,000 SF; FIRE AREA IS NOT LOCATED ON A FLOOR OTHER THAN THE LEVEL OF EXIT DISCHARGE.

MEANS OF EGRESS (Chapter 10)

OCCUPANCIES: A-3
 B

GROSS FLOOR AREAS:
 3,472 SF (INTERIOR CONDITIONED)
 2,105 SF (EXTERIOR COVERED)
 5,577 SF TOTAL

OCCUPANT LOAD:
 127 (A-3)
 32 (B)
 159 TOTAL

REQD EXIT WIDTH:
 159 x 0.2 = 31.8'
 REFER PLAN

REQD EXIT AMT:
 2
 REFER PLAN FOR EXITS AND EXIT ACCESS

EXITS PROVIDED:
 200 FT (NONSPRINKLED)
 75 FT (NONSPRINKLED)

ACCESSIBILITY (CHAPTER 11)

ACCESSIBLE ROUTES AND ENTRANCES ARE PROVIDED FOR IN THE DESIGN. REFER SITE & CIVIL PACKAGE FOR ACCESSIBLE PARKING REQUIREMENTS AND LOCATIONS.

REFER ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS FOR ACCESSIBILITY REQUIREMENTS AT RESTROOMS AND OTHER FIXTURES AND EQUIPMENT.

PLUMBING FIXTURES (CHAPTER 29)

REFER PLUMBING FIXTURE SCHEDULE THIS SHEET FOR REQUIREMENTS AT THIS BUILDING.

FAMILY-ASSISTED RESTROOM PROVIDED.

REFER SITE & CIVIL PACKAGE FOR PLUMBING REQUIREMENTS FOR ENTIRE CAMPUS AND LOCATIONS OF PROVIDED FACILITIES.

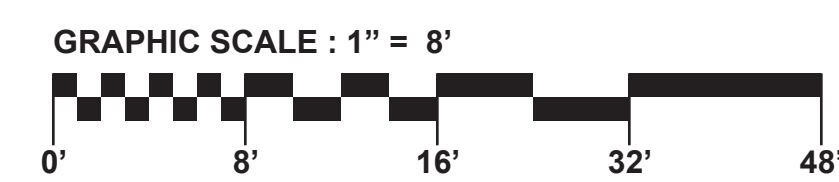
BUILDING ENVELOPE

REFER TO PROVIDED TABLE ON THIS SHEET.

SHEET SPECIFIC NOTES

GRAPHIC LEGEND

- PATH OF TRAVEL BEGINNING
- POINT OF TRAVEL DIVERGENCE
- PATH DISCHARGE TO PUBLIC RIGHT OF WAY
- 112'-7" TOTAL EGRESS TRAVEL DISTANCE
- 112'-7" COMMON PATH OF EGRESS TRAVEL DISTANCE
- EXIT OR EXIT ACCESS
- FIRE EXTINGUISHER LOCATION
- 1-HOUR FIRE BARRIER OR FIRE RESISTANT ASSEMBLY



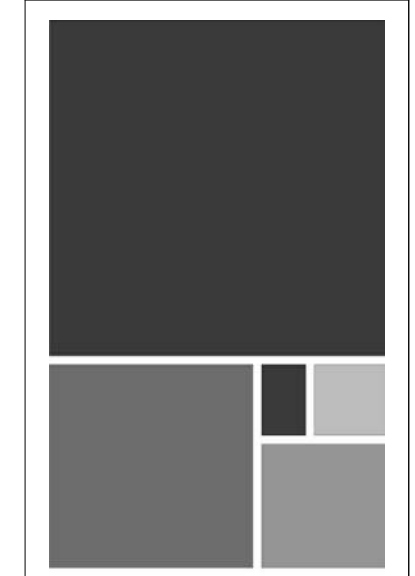
LIFE SAFETY PLAN
WELCOME HUB
1
 1/8" = 1'-0"

Job No.	19-028-000
Project Status	CONFORMANCE SET
Date	MARCH 24, 2023
Sheet Name	CODE REVIEW & LIFE SAFETY
Sheet No.	GW010



KEYNOTES

- 06 2013 Exterior Finish Carpentry
- 22 1400 Rain Water Harvesting
- 26 5619 LED Exterior Lighting
- 32 1216 Asphalt Paving
- 32 3116 Welded Wire Fences and Gates
- 32 3136.SF Site Fencing



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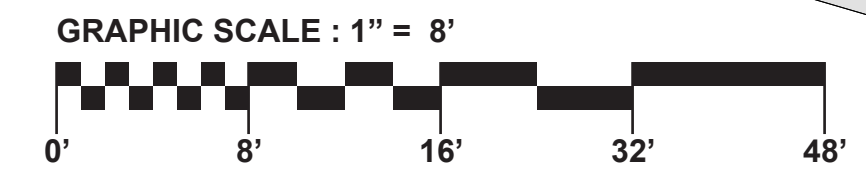
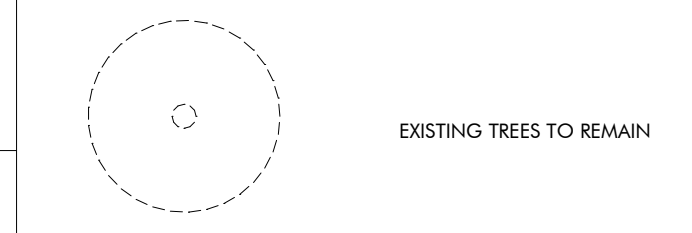
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GENERAL NOTES

SHEET SPECIFIC NOTES

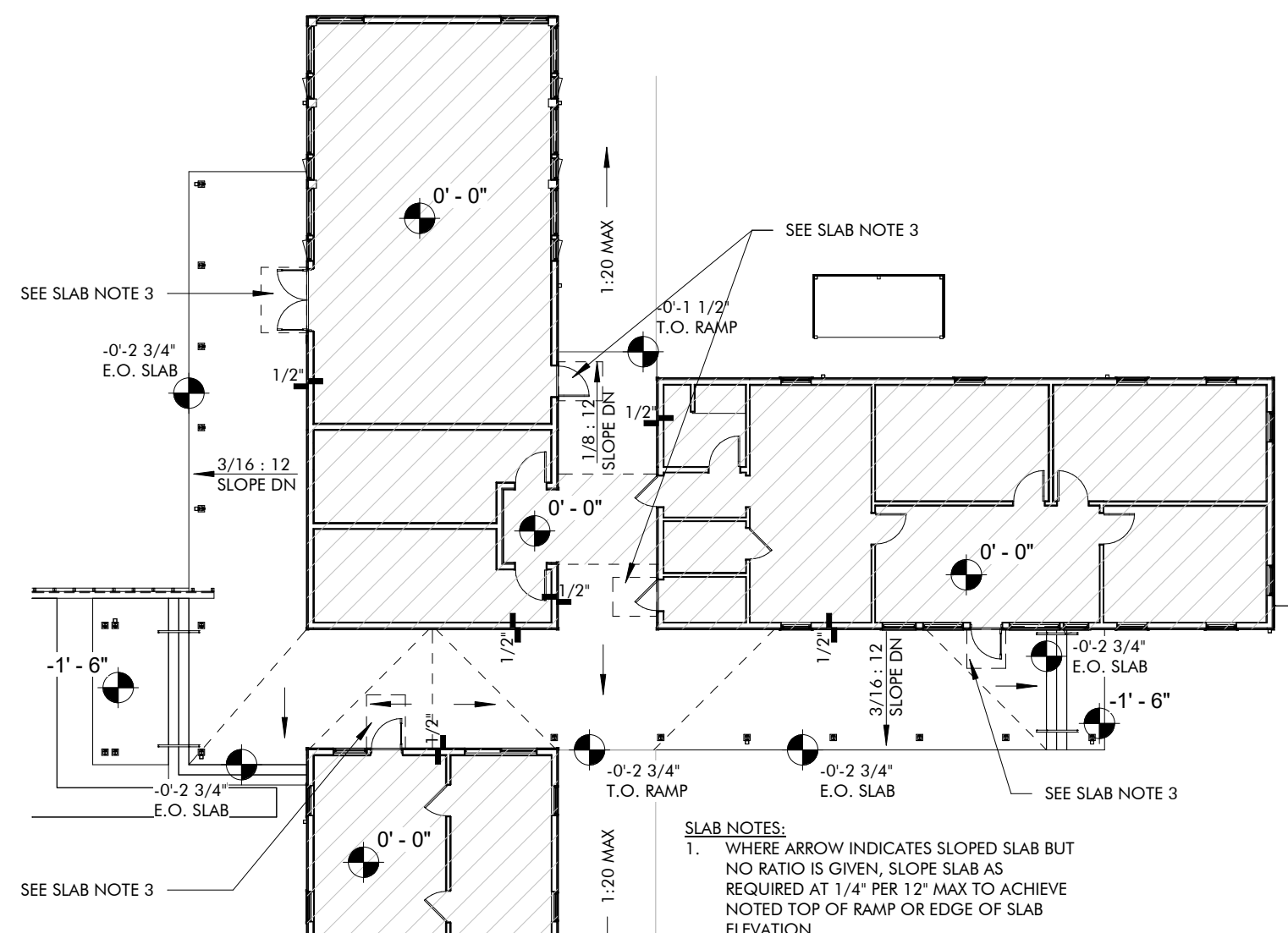
- 1 GRAVEL PATH OR ROAD
- 2 STABILIZED GRAVEL
- 3 GRAVEL OVER CONCRETE FLATWORK FOR BIKE PARKS; REF SITE PACKAGE FOR TYP BIKE PARK DIMENSIONS
- 4 CONCRETE FLATWORK
- 5 LANDSCAPED AREA PRESERVE & PROTECT EXISTING TREES; REF LANDSCAPE
- 6 PROTECT LANDMARK, SIGNIFICANT TREE
- 7 PARKING, REF CIVIL
- 8 CONCRETE RIBBON CURB; REF CIVIL
- 10 ROLLING GATE; REF SITE PACKAGE
- 11 BOARD FORM CONCRETE WALL WITH WOOD SCREEN
- 12 WOOD SCREENING FOR HVAC CONDENSERS; REF SITE PACKAGE
- 13 CONCRETE PAD FOR HVAC CONDENSERS; REF MECHANICAL
- 15 ASPHALT PATH

LEGEND



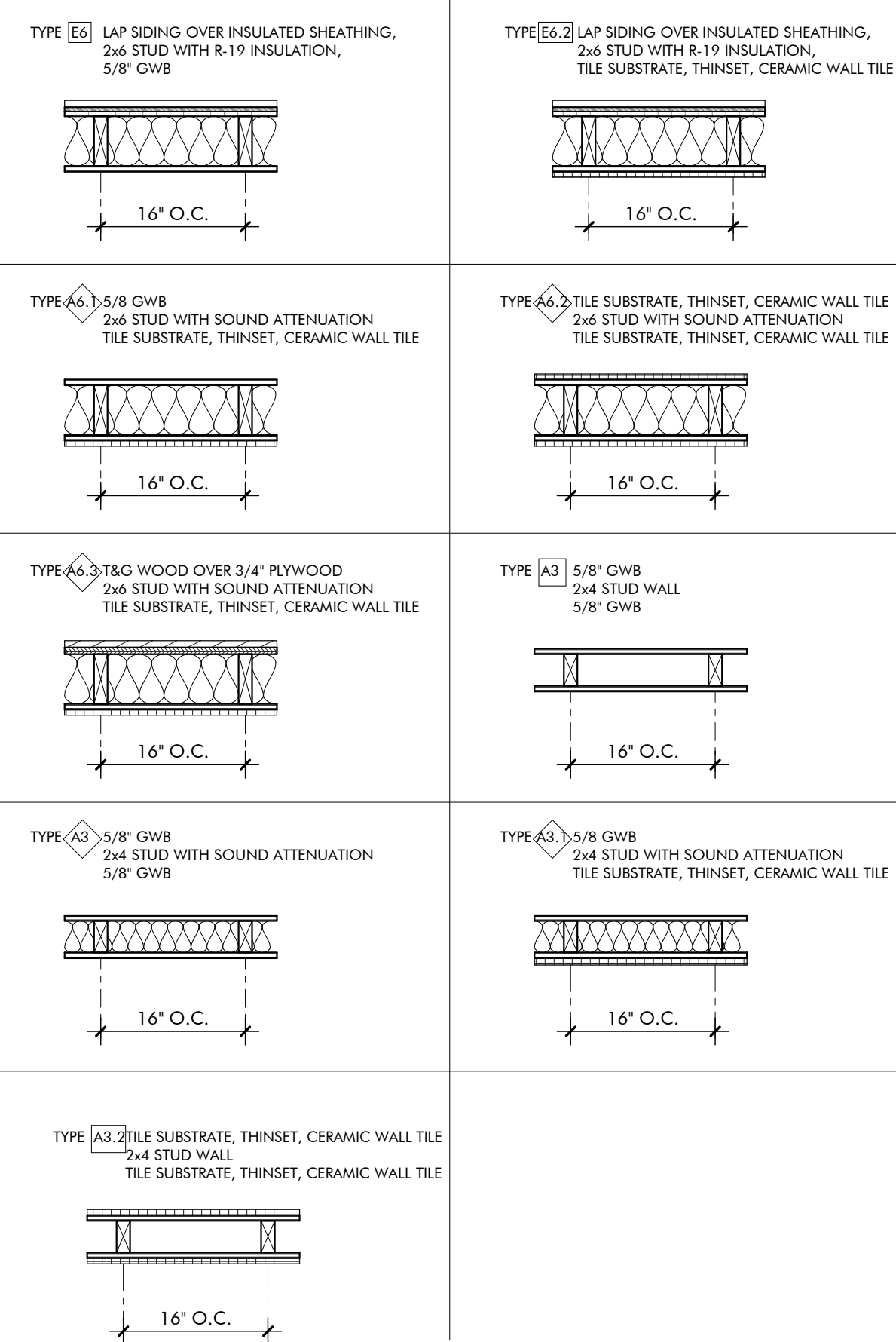
ENLARGED SITE PLAN
WELCOME HUB
1
 1/8" = 1'-0"

No.	Date	Description
1	JANUARY 2, 2023	ISS SET
JOB		
19-028.000		
PROJECT STATUS		
CONFORMANCE SET		
DATE		
MARCH 24, 2023		
SHEET NAME		
WELCOME HUB PLAZA		
SHEET NO.		
AW100		



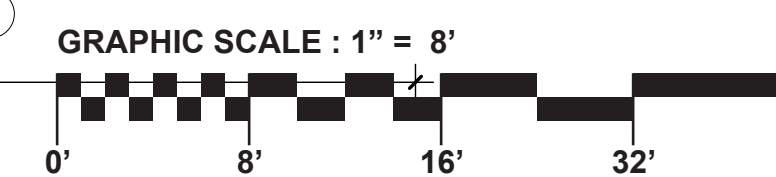
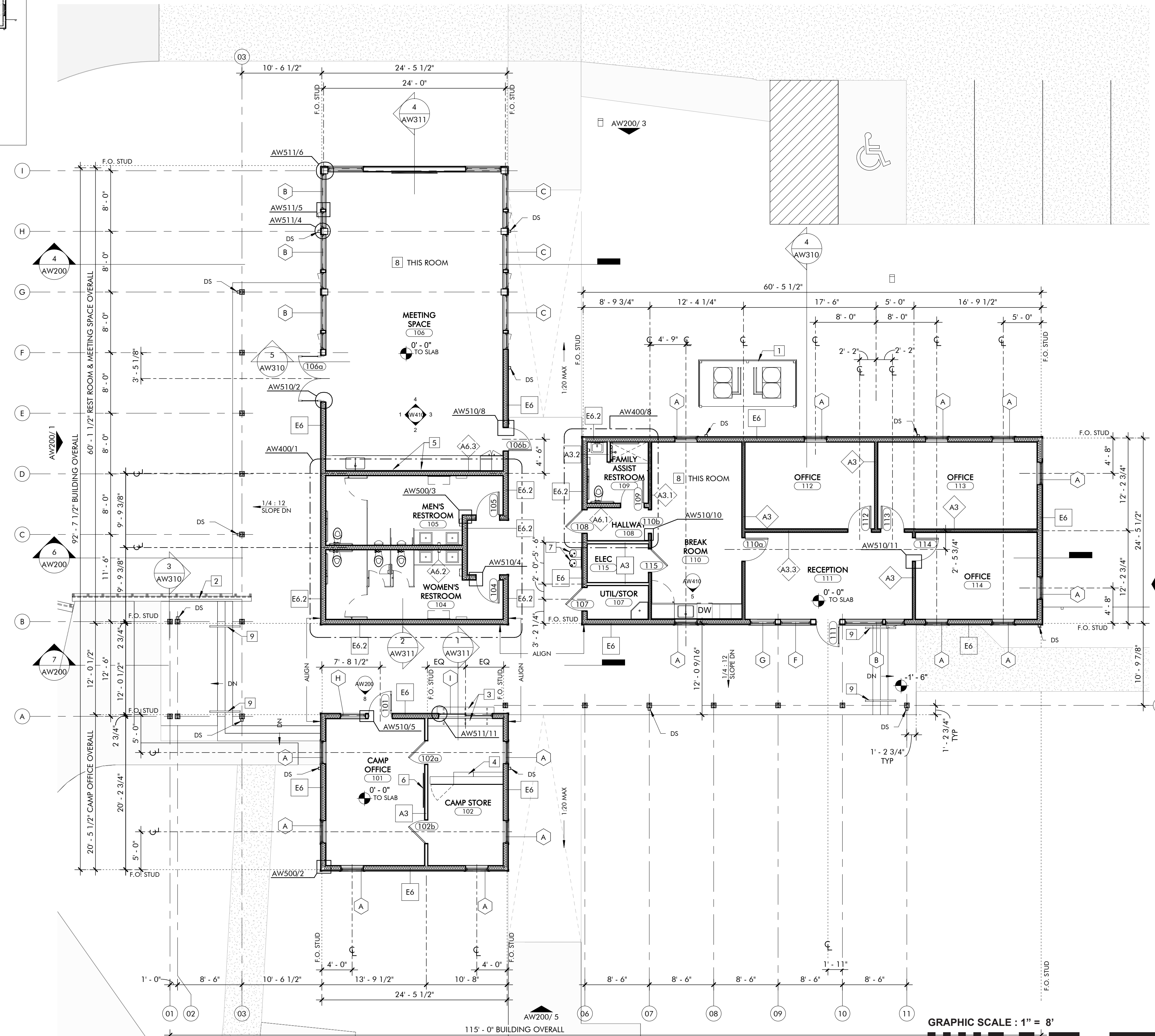
SLAB LAYOUT
WELCOME HUB
1/16" = 1'-0"

- SLAB NOTES:**
- WHERE ARROW INDICATES SLOPED SLAB BUT NO RATIO IS GIVEN, SLOPE SLAB AS REQUIRED AT 1/4" PER 12" MAX TO ACHIEVE NOTED TOP OF RAMP OR EDGE OF SLAB ELEVATION.
 - SLAB STEPS 1/2" BETWEEN INTERIOR CONDITIONED SPACES AND EXTERIOR PORCHES. REF R/AW500.
 - WARP SLAB AT ALL EXTERIOR DOOR THRESHOLDS TO ACHIEVE ACCESSIBLE ENTRY. 1/4" PER 12" MAX CROSS SLOPE.



- WALL TYPE NOTES:**
- SEE PLAN FOR WALL TYPE LOCATIONS
 - SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR TYPE AND EXTENT OF ALL FINISHES
 - SEE PLAN AND SECTION DETAILS FOR WALL CONSTRUCTION

WALL TYPE LEGEND
3/4" = 1'-0"



FLOOR PLAN
WELCOME HUB
1/8" = 1'-0"

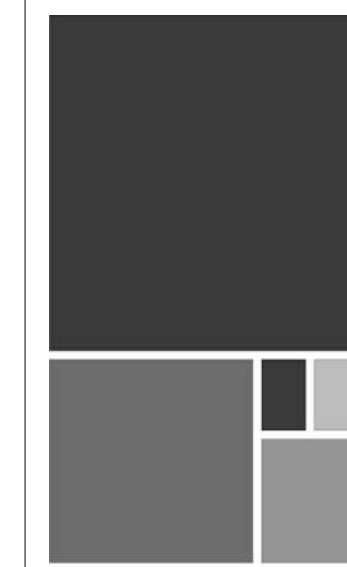
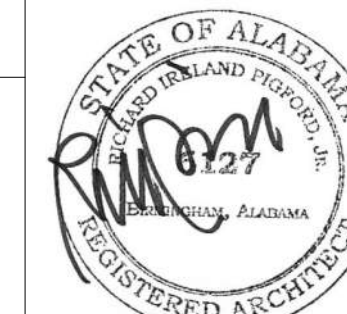
KEYNOTES

GENERAL NOTES

- REFER SITE & CIVIL PACKAGE FOR BUILDING LOCATION ON SITE.
- REFER AW600 SCHEDULES FOR ROOM FINISHES SCHEDULE, WINDOW LEGEND, AND DOOR SCHEDULE.
- GRIDLINES - LOCATED ON CENTERLINES OF STRUCTURAL COLUMNS UNLESS OTHERWISE NOTED.
- EXTERIOR WALLS - DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
- INTERIOR WALLS - DIMENSIONS ARE TO CENTERLINE OF STUD UNLESS OTHERWISE NOTED.
- OPENINGS - DIMENSIONS ARE TO CENTERLINE OF OPENING (DOOR OR WINDOW) UNLESS OTHERWISE NOTED. REFER TO AW600 SCHEDULES FOR DOOR AND WINDOW SIZES.
- AT EXTERIOR WALKS AND PORCHES PROVIDE POSITIVE SLOPE AWAY FROM BUILDING. MAX 2% CROSS-SLOPE (1/4" = 3/16" PER FOOT)
- CONCRETE FINISHES THIS BUILDING:
A. INTERIOR SPACES - POLISHED
B. EXTERIOR SPACES - BROOM FINISH

SHEET SPECIFIC NOTES

- PROVIDE WOOD SLAT SCREENING AT PAD-MOUNTED CONDENSERS. REFER SITE PACKAGE
- CONCRETE STEM WALL WITH WOOD SLAT SCREEN. REFER AW200.
- SOLID SURFACE COUNTER AT BOTH INTERIOR AND EXTERIOR LOCATIONS, BRACKET MOUNTED AT ACCESSIBLE HEIGHT. REFER AW511/10
- COMMERCIAL SLAT SHELVING FOR PRODUCT DISPLAY. PROVIDE HINGED SECTION FOR ACCESS TO STORAGE BEHIND SHELVING. REFER SPECIFICATIONS.
- WALL-MOUNTED TV'S. REFER AW410/10 FOR MOUNTING HEIGHT. REFER DATA.
- (1) WALL-MOUNTED DISPLAY FOR ENERGY DASHBOARD. REFER SHEET NOTE 2 FOR MOUNTING HEIGHT INFORMATION. SIMILAR TO TV'S IN ROOM 105.
- (2) DRINKING FOUNTAINS WITH BOTTLE FILLERS. REFER AW400/12 FOR TYPICAL ELEVATIONS FOR ACCESSIBLE UNIT.
- REFER ELECTRICAL FOR IN-SLAB FLOOR OUTLETS AND LOCATION.
- STAINED WOOD HANDRAIL ON PAINTED BAR STEEL FRAME. EMBED IN CONC.



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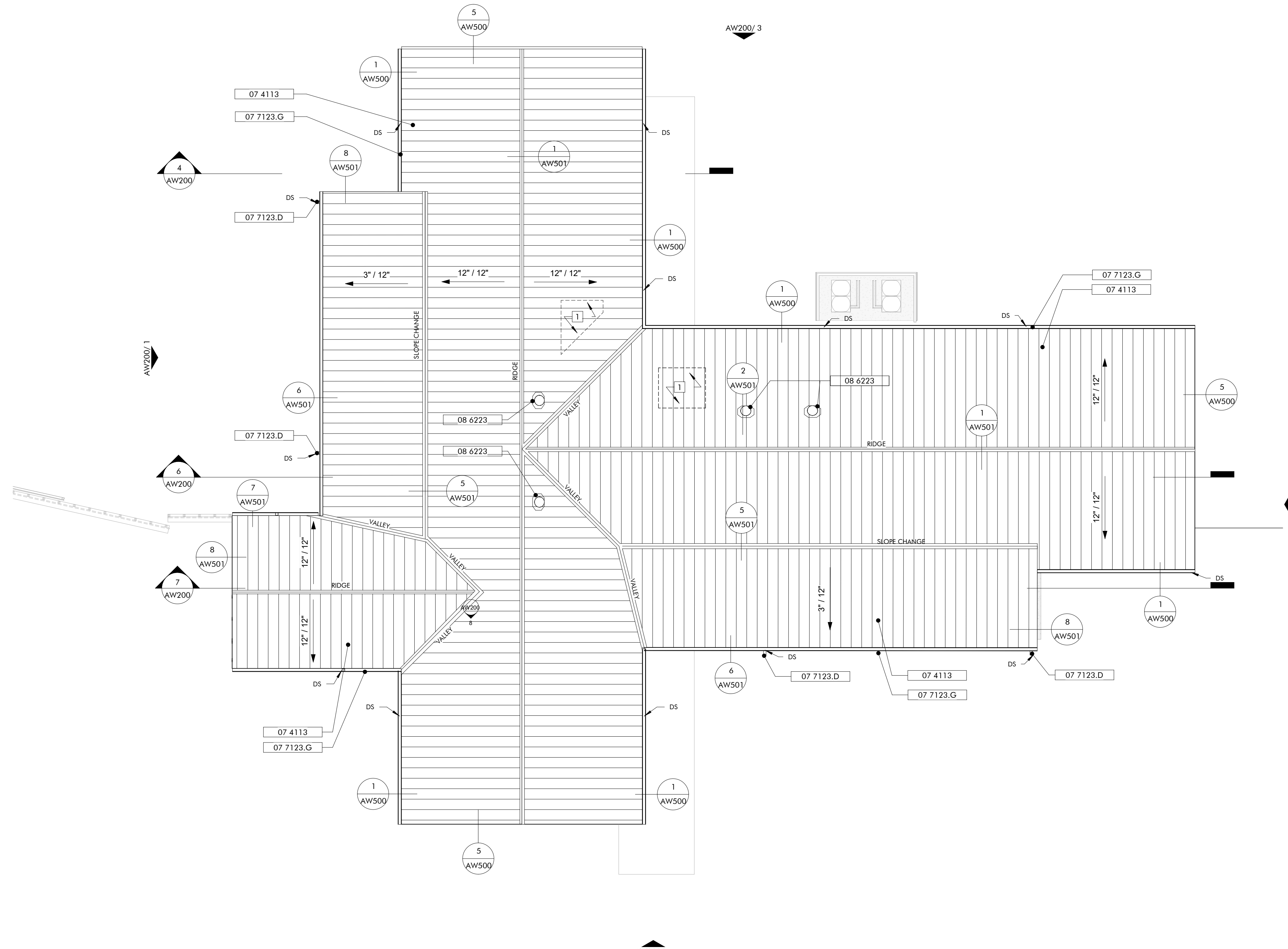
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No.	2	DATE	JANUARY 2, 2023
Rev.		DESCRIPTION	
JOB	19-028-000		
PROJECT STATUS	CONFORMANCE SET		
DATE	MARCH 24, 2023		
SHEET NAME	FLOOR PLAN		
SHEET NO.	AW120		

AW120



KEYNOTES

07 4113 Metal Roof Panels
 07 7123.D Manufactured Downspouts
 07 7123.G Manufactured Gutters
 08 6223 Tubular Skylights



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GENERAL NOTES

1. REFER TO STRUCTURAL PACKAGE FOR FRAMING LAYOUT.
2. REFER AW600 SCHEDULES FOR ROOM FINISHES SCHEDULE.
3. GRIDLINES - LOCATED ON CENTERLINES OF STRUCTURAL COLUMNS UNLESS OTHERWISE NOTED.

SHEET SPECIFIC NOTES

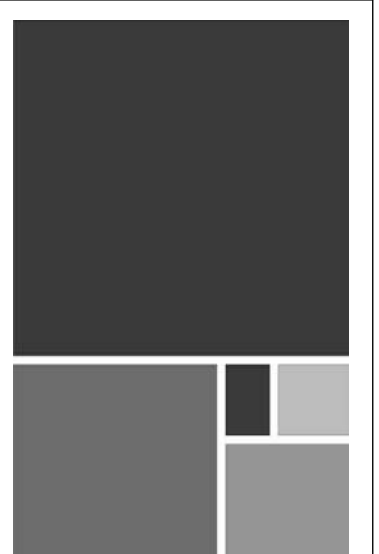
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Revision	Initials
Date	
No.	
1	JANUARY 6, 2023
JOB	
19-028.000	
PROJECT STATUS	
CONFORMANCE SET	
DATE	
MARCH 24, 2023	
SHEET NAME	
ROOF PLANS	
SHEET NO.	
AW140	

LIGHT FIXTURE SCHEDULE - WELCOME HUB				
MARK	MFR	MODEL	MOUNTING	NOTES
CF2	Big Ass Fans	Haiku Bamboo Low Profile Mount		
LF1	ALPHABET	NU4	RECESSED	
LF2	BEGA-US	24034	WALL	
LF3	XAL	MOVE IT 1.2 SYSTEM	RECESSED	
LF5	FINELITE INC.	HP2-R	RECESSED	
LF6	BEGA-US	24817	RECESSED	
LF7	BEGA-US	TAB3L-SYM	WALL	
LF8	FINELITE INC.	HP2-SM 50144	SURFACE	
LF9	DUAL LITE	LE SERIES	WALL	
LF10	BEGA-US	33341	WALL	
LF11	BEGA-US	24507	RECESSED	
LF12	SOLAR A/S	UNOS	RECESSED	

KEYNOTES

- 06 1516 Wood Roof Decking
- 06 1753 Shop-Fabricated Wood Trusses
- 06 2000.SWB Stained Wood Boards
- 08 6223 Tubular Skylights



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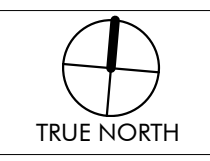
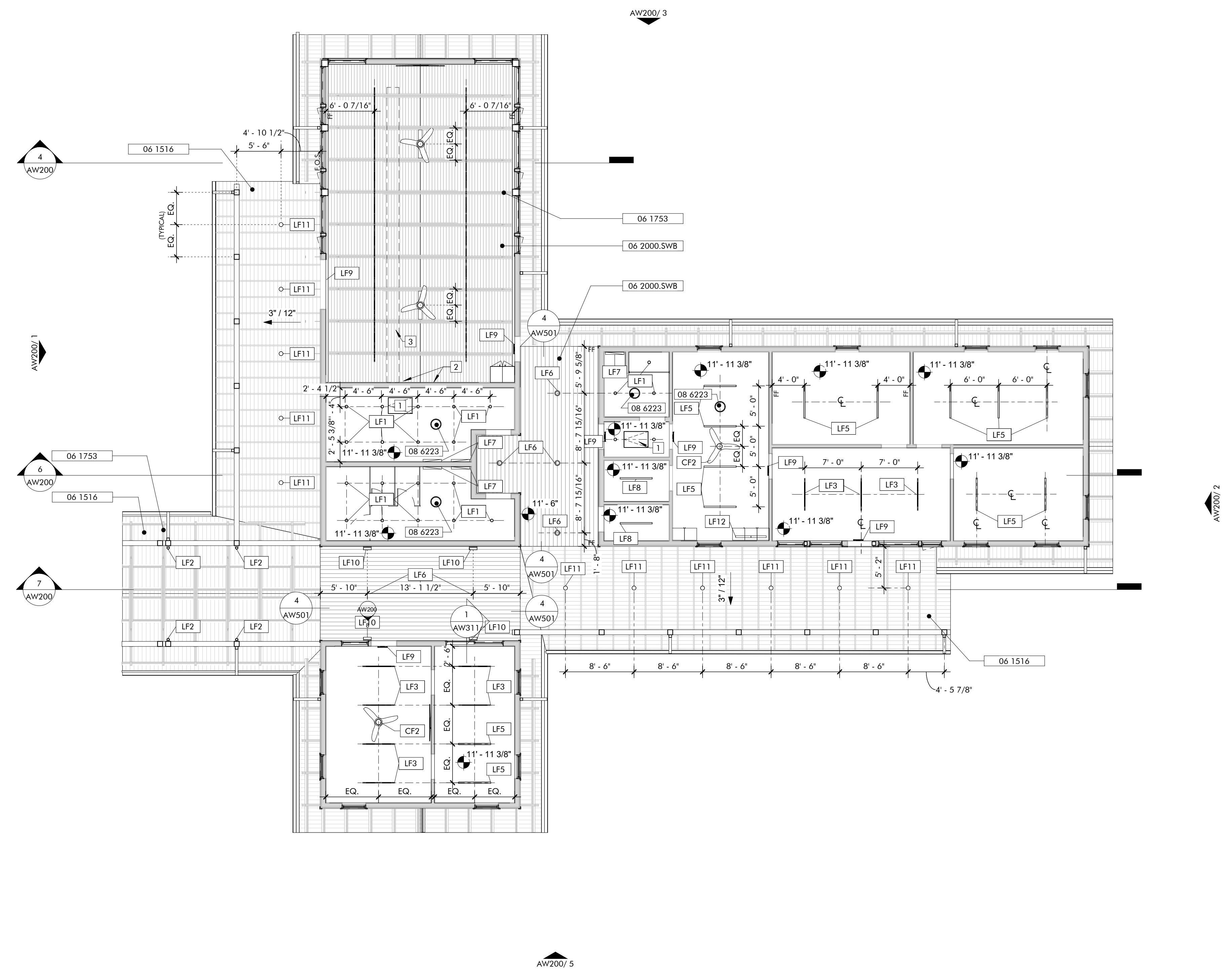
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GENERAL NOTES

1. REFER TO STRUCTURAL PACKAGE FOR FRAMING LAYOUT.
2. REFER AW600 SCHEDULES FOR ROOM FINISHES SCHEDULE.
3. REFER TO MECHANICAL FOR ADDITIONAL DIFFUSER & GRILLE INFO.
4. REFER TO ELECTRICAL FOR ADDITIONAL LIGHTING INFO.
5. REFER TO TECHNOLOGY FOR ADDITIONAL DATA REQUIREMENTS.
6. CONDUIT AT EXPOSED CEILING TO RUN PARALLEL WITH STRUCTURE. CONDUIT RUNNING DIAGONALLY WILL NOT BE ACCEPTED.

SHEET SPECIFIC NOTES

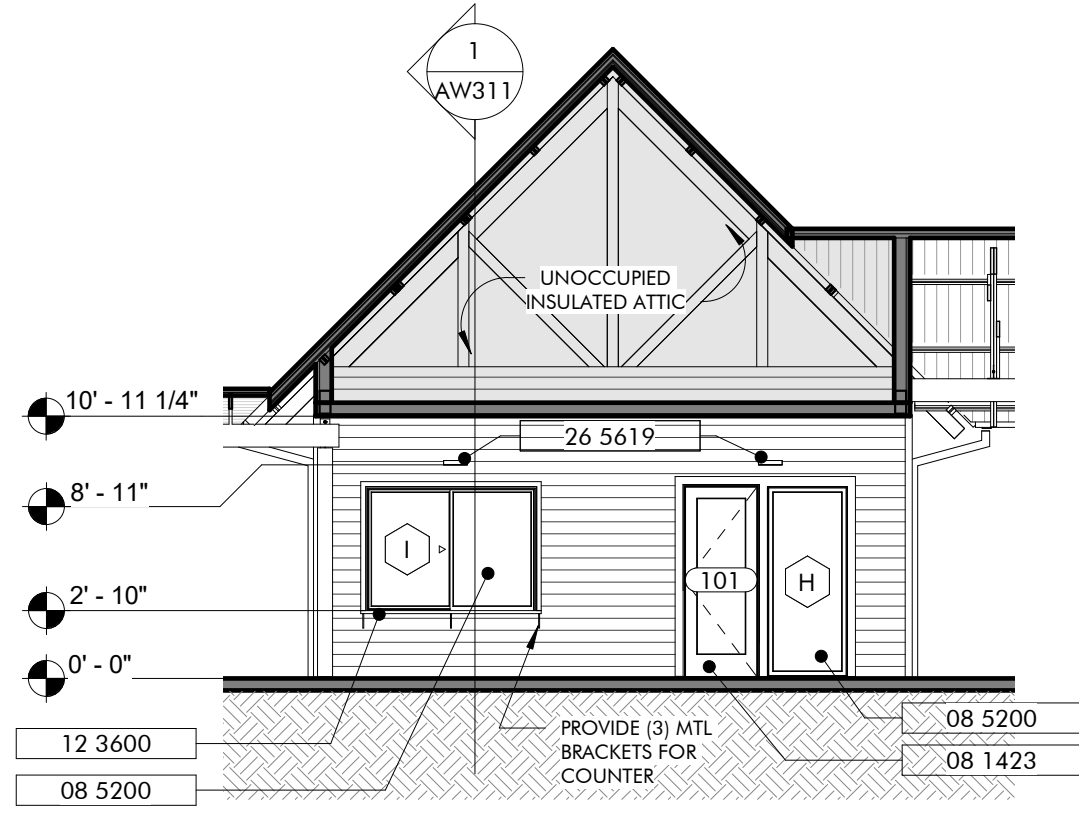
1. ATTIC ACCESS HATCH
2. WALL-MOUNTED TVS. REFER AW410/10 FOR MOUNTING HEIGHT. REFER DATA.
3. EXPOSED DUCT, SEE MECHANICAL PACKAGE



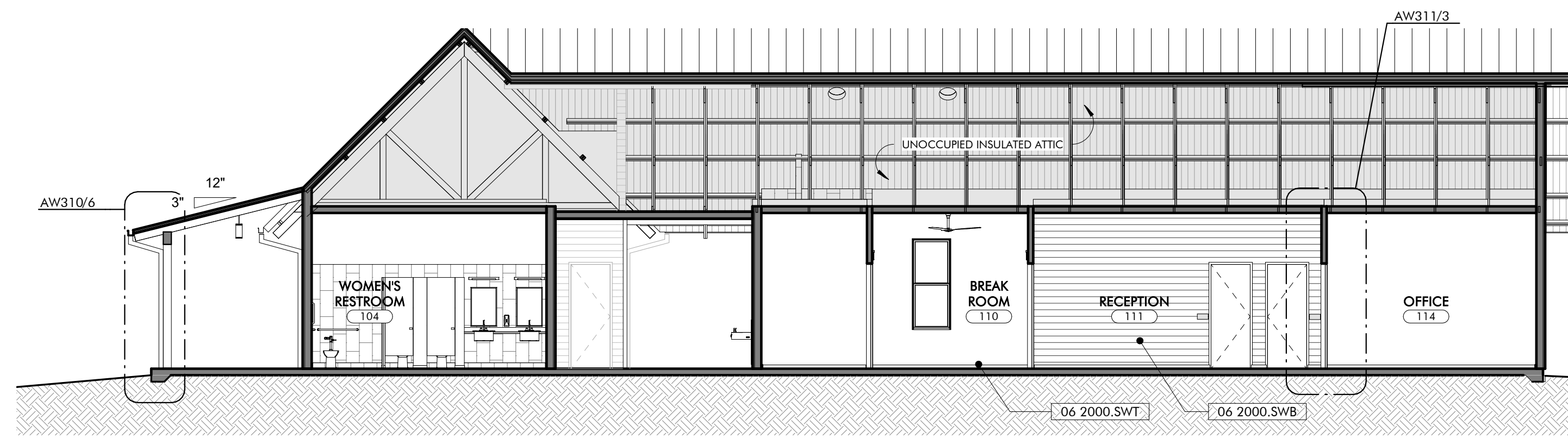
REFLECTED CEILING PLAN
WELCOME HUB

2
1/8" = 1'-0"

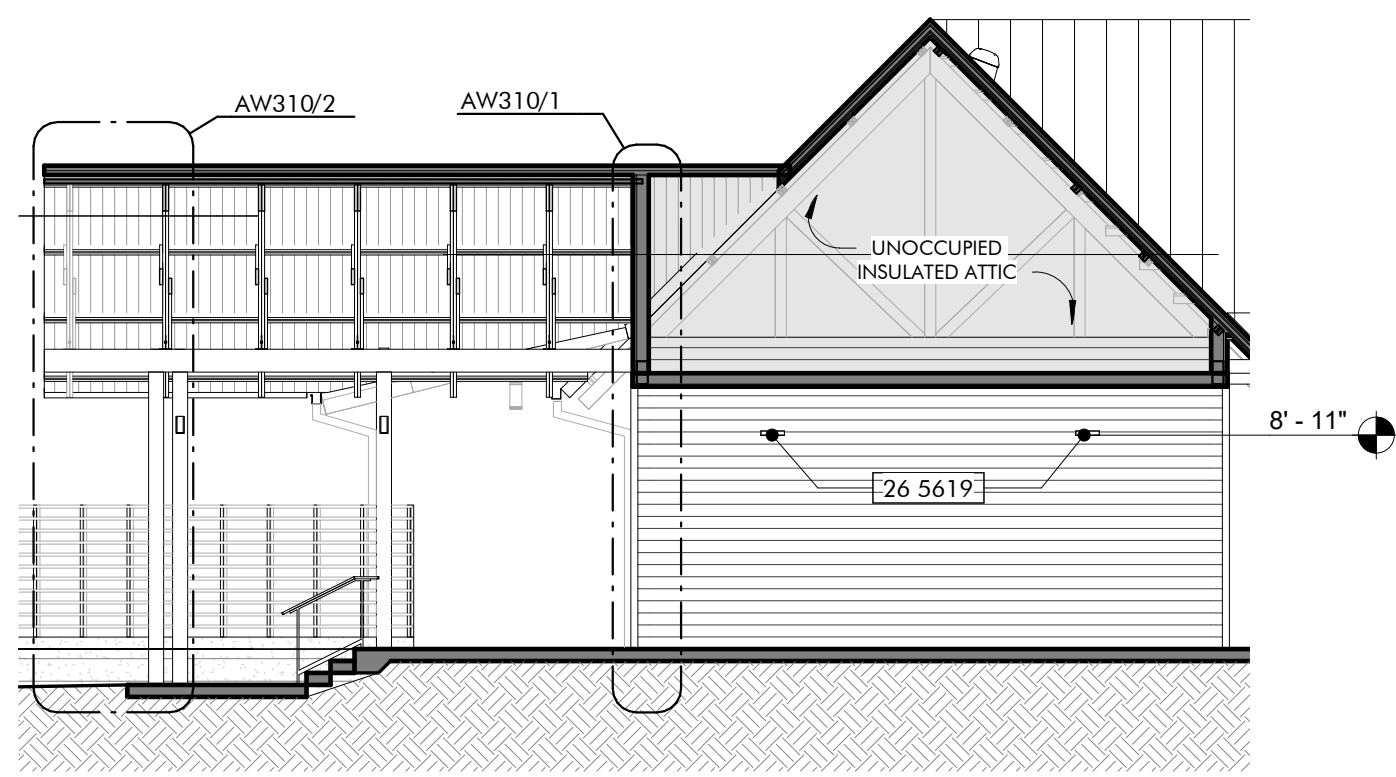
Issue	
Revision	
Date	JANUARY 6, 2023
No.	2
JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	REFLECTED CEILING PLANS
SHEET NO.	AW150



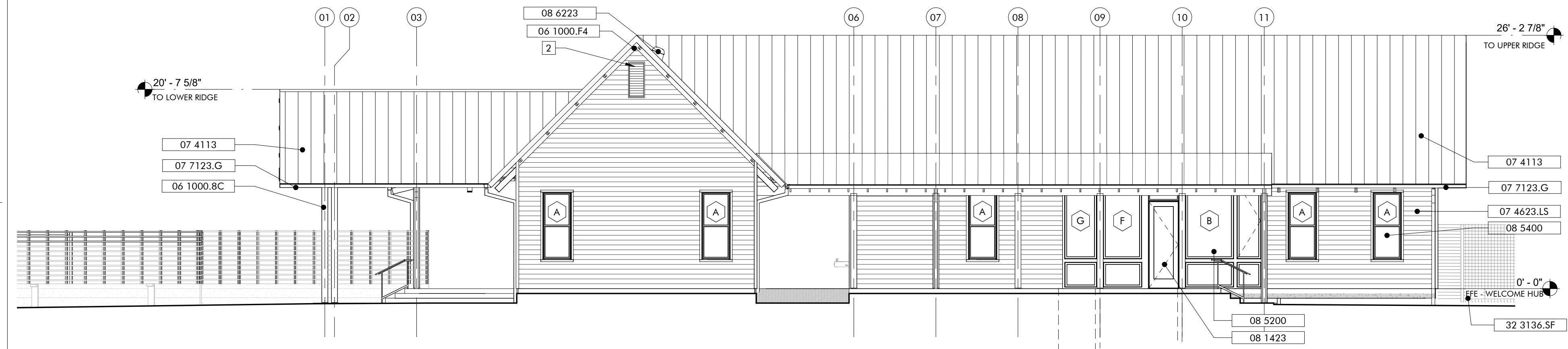
BUILDING SECTION
CAMP OFFICE ENTRY
8
1/8" = 1'-0"



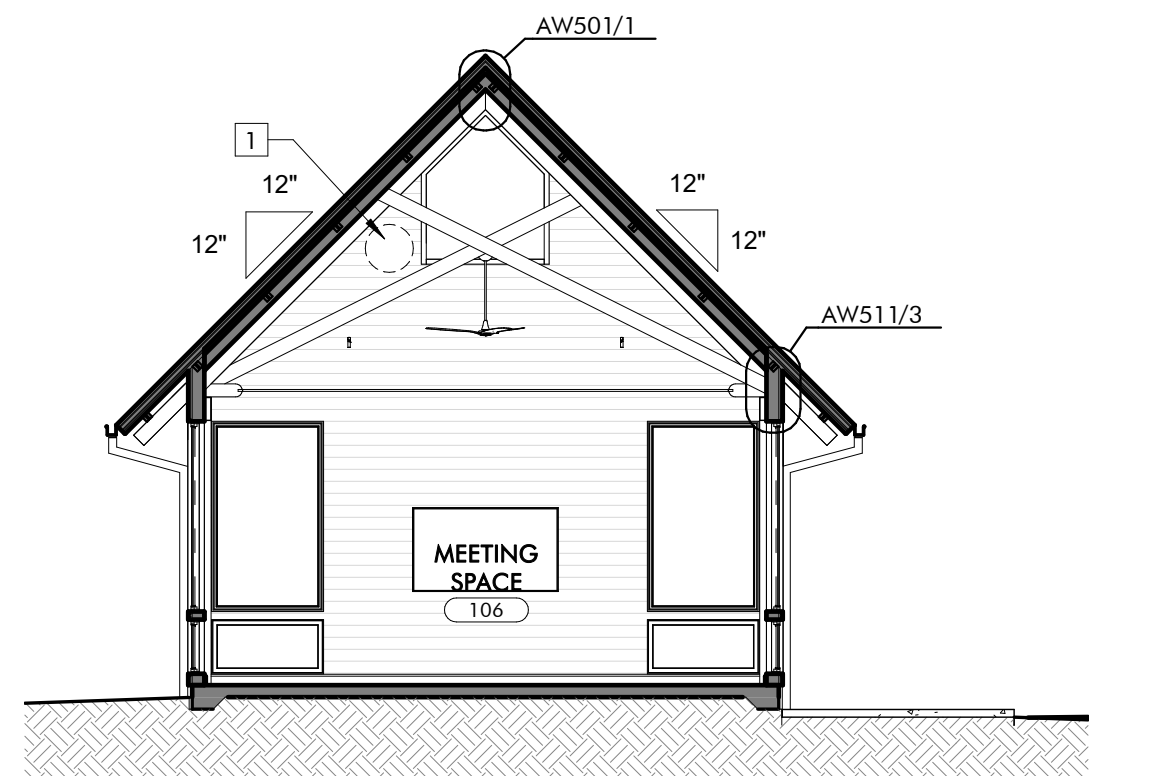
BUILDING SECTION
WELCOME HUB - ADMINISTRATIVE SPACE
6
1/8" = 1'-0"



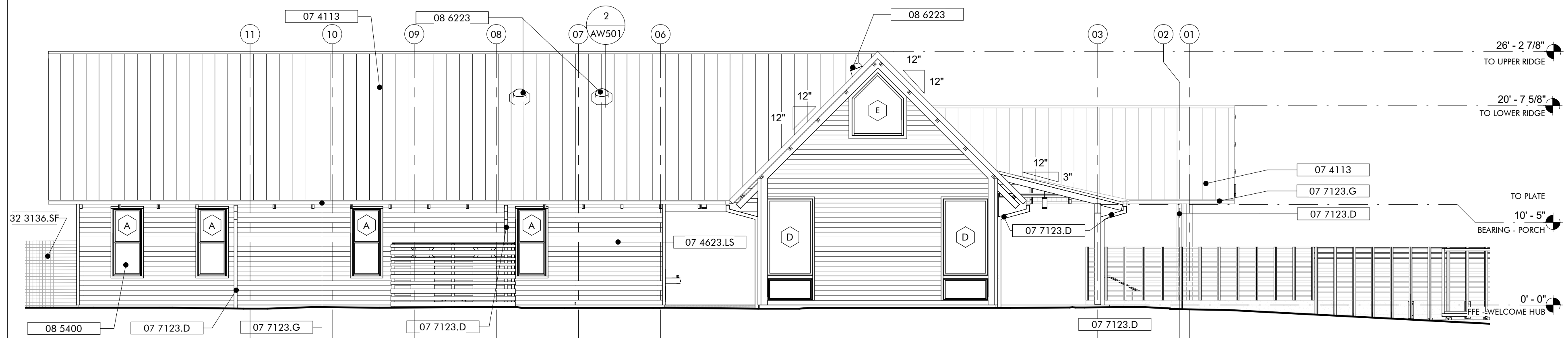
BUILDING SECTION
WELCOME HUB - ENTRY DOGTROT
7
1/8" = 1'-0"



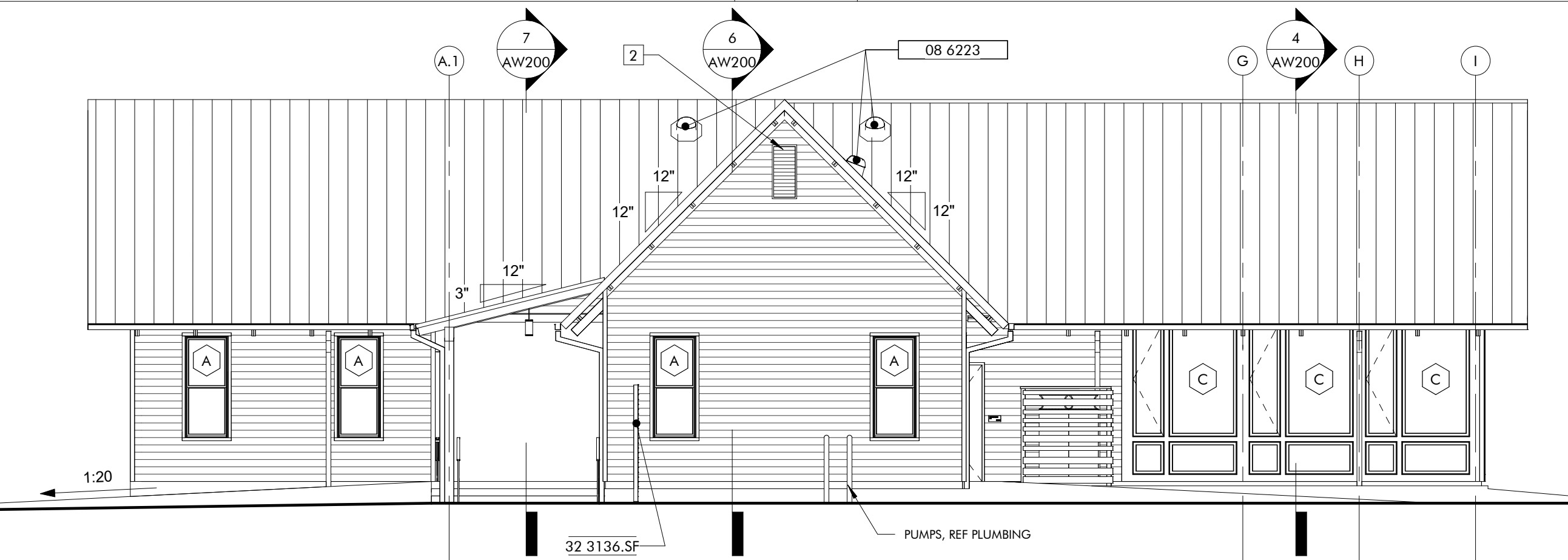
EXTERIOR ELEVATION
WELCOME HUB - SOUTH
5
1/8" = 1'-0"



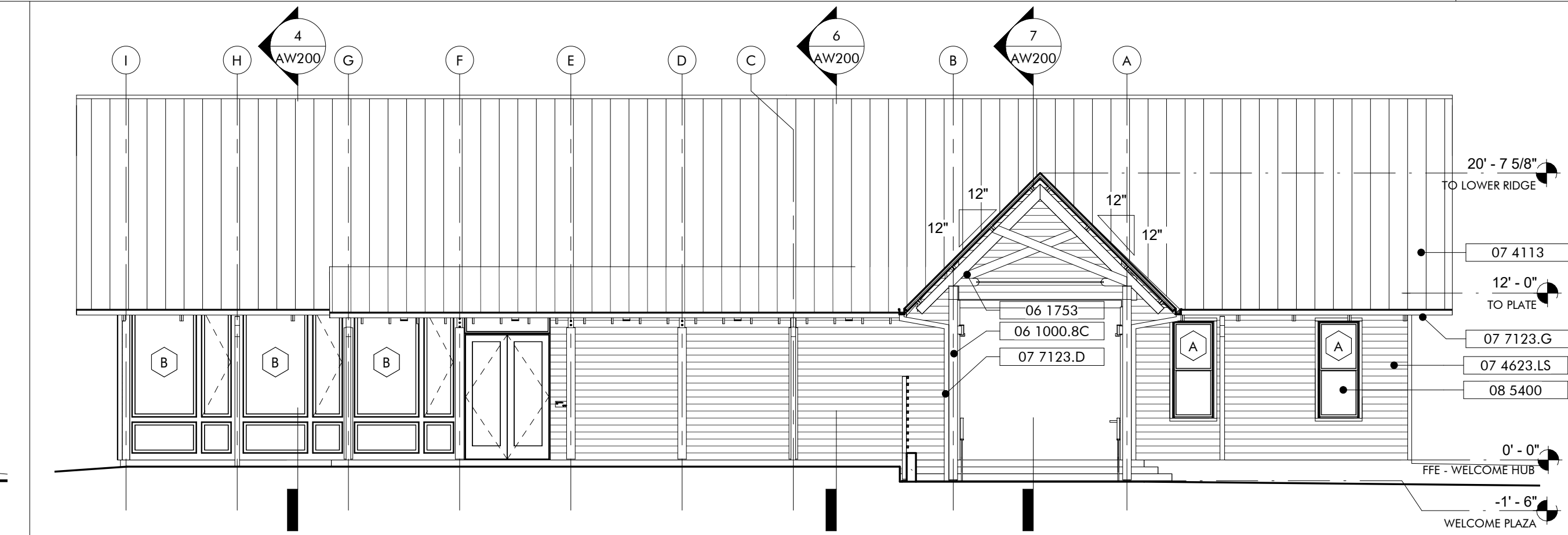
BUILDING SECTION
WELCOME HUB - MEETING SPACE
4
1/8" = 1'-0"



EXTERIOR ELEVATION
WELCOME HUB - NORTH
3
1/8" = 1'-0"



EXTERIOR ELEVATION
WELCOME HUB - EAST
2
1/8" = 1'-0"



EXTERIOR ELEVATION
WELCOME HUB - WEST
1
1/8" = 1'-0"

KEYNOTES

- 06 1000.8C 8x8 Column
- 06 1000.F4 2x4 Framing
- 06 1753 Shop-Fabricated Wood Trusses
- 06 2000.SWB Stained Wood Boards
- 06 2000.SWT Stained Wood Trim
- 07 4113 Metal Roof Panels
- 07 4623.LS Engineered Wood Lap Siding
- 07 7123.D Manufactured Downspouts
- 07 7123.G Manufactured Gutters
- 08 1423 Clad Wood Doors
- 08 5200 Wood Windows
- 08 5400 Composite Windows
- 08 6223 Tubular Skylights
- 12 3600 Countertops
- 26 5619 LED Exterior Lighting
- 32 3136.SF Site Fencing

GENERAL NOTES

SHEET SPECIFIC NOTES

- 1 EXPOSED DUCT, SEE MECHANICAL PACKAGE
- 2 MECHANICAL LOUVER, SEE MECHANICAL PACKAGE



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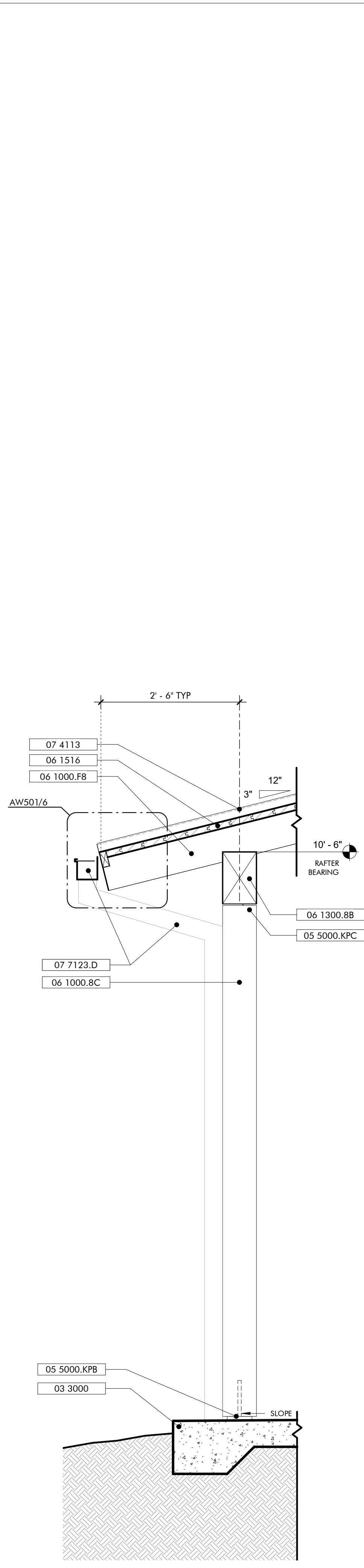
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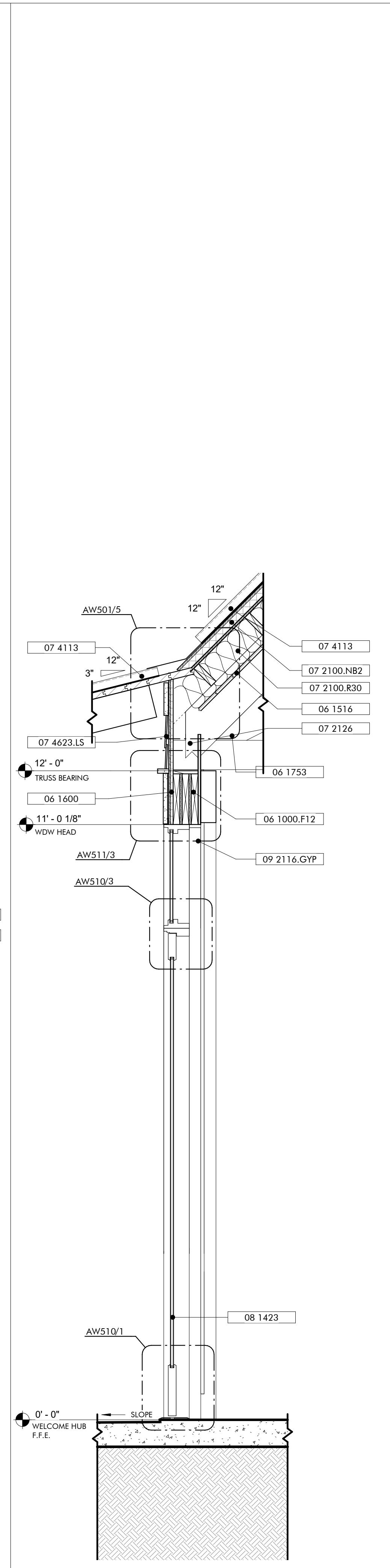
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GULF SHORES, ALABAMA

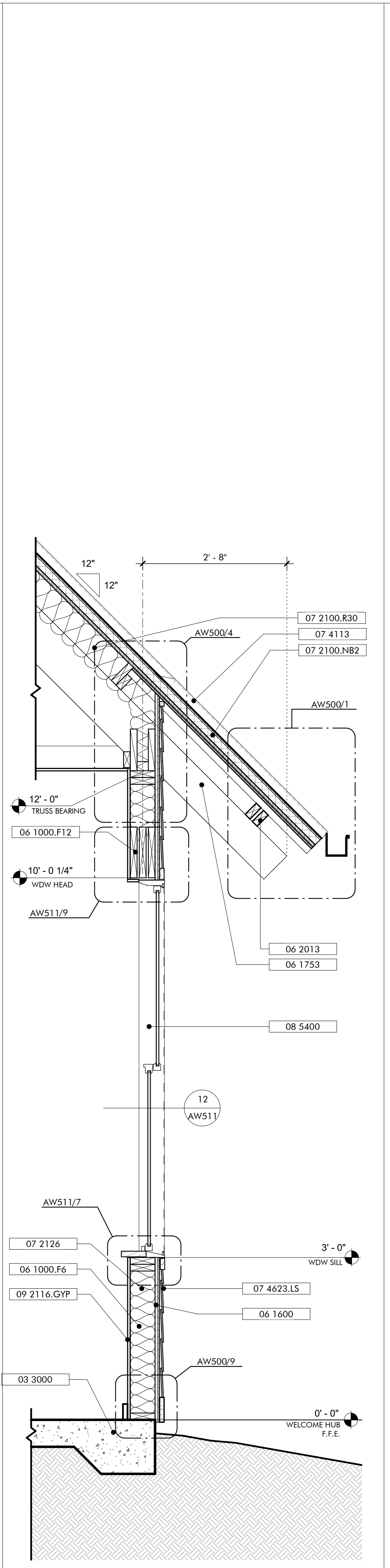
No.	1
Date	JANUARY 5, 2023
Revision	
Job	19-028.000
Project Status	CONFORMANCE SET
Date	MARCH 24, 2023
Sheet Name	EXTERIOR ELEVATIONS & BUILDING SECTIONS
Sheet No.	AW200



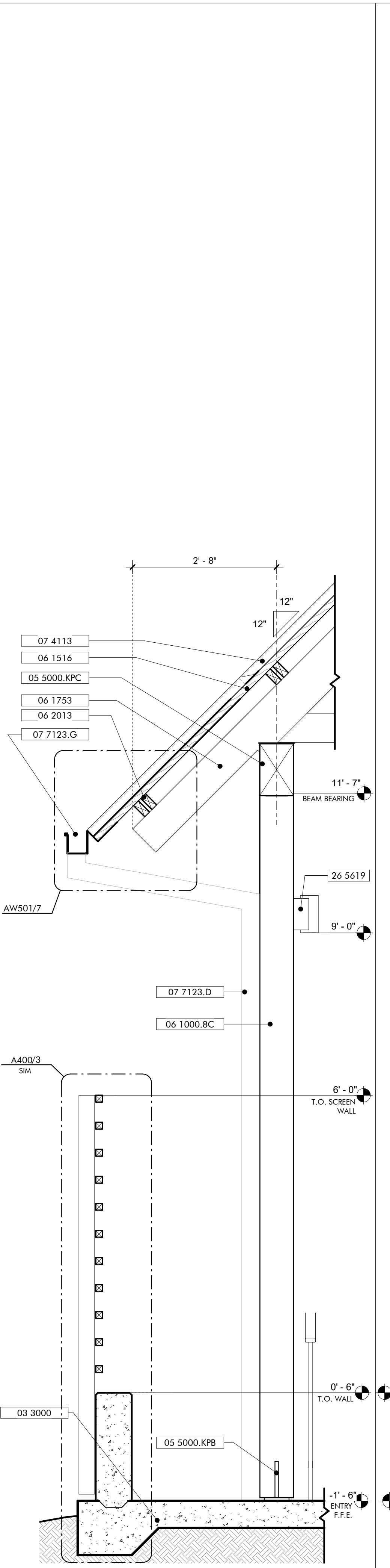
WALL SECTION 6
TYP PORCH EAVE
3/4" = 1'-0"



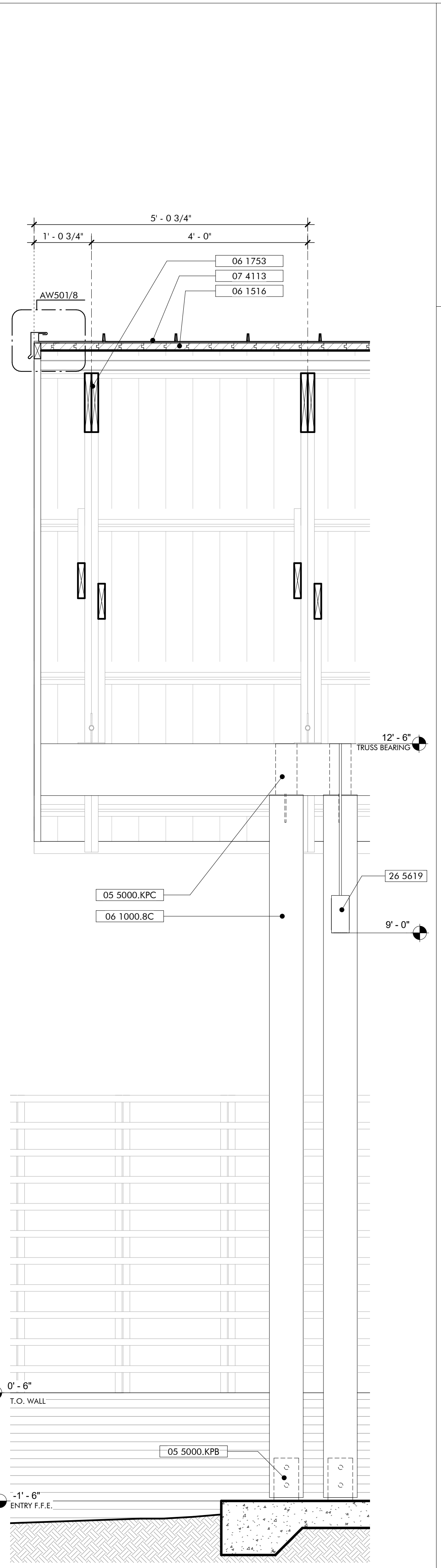
WALL SECTION 5
TYP STOREFRONT OPENING
3/4" = 1'-0"



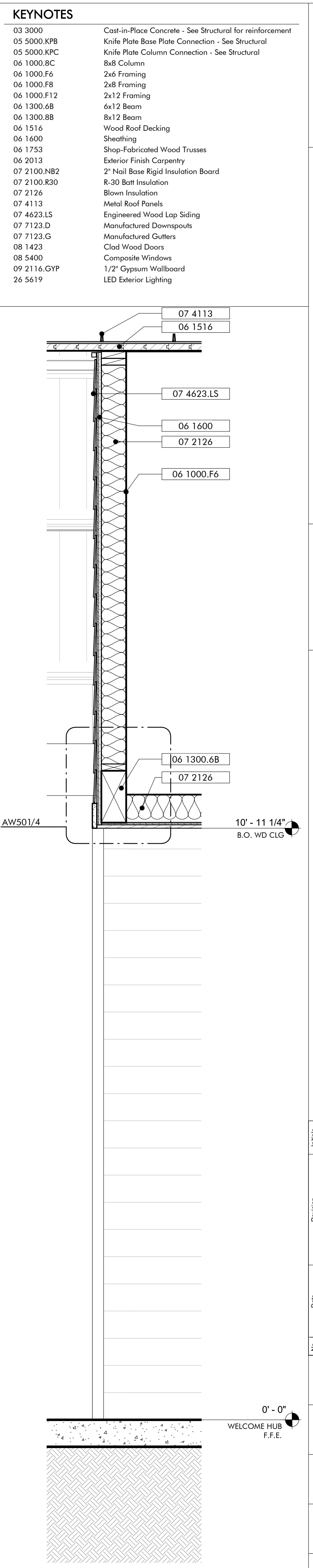
WALL SECTION 4
TYP ROOF EAVE & WIN
3/4" = 1'-0"



WALL SECTION 3
ENTRY ROOF EAVE & SCREEN
3/4" = 1'-0"



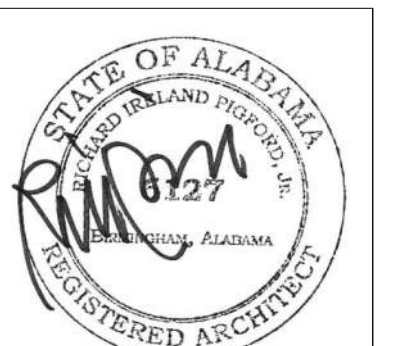
WALL SECTION 2
ENTRY ROOF GABLE
3/4" = 1'-0"



WALL SECTION 1
BREEZEWAY THRESHOLD
3/4" = 1'-0"

KEYNOTES

03 3000	Cast-in-Place Concrete - See Structural for reinforcement
05 5000.KPB	Knife Plate Base Plate Connection - See Structural
05 5000.KPC	Knife Plate Column Connection - See Structural
06 1000.8C	8x8 Column
06 1000.F6	2x6 Framing
06 1000.F8	2x8 Framing
06 1000.F12	2x12 Framing
06 1300.6B	6x12 Beam
06 1300.8B	8x12 Beam
06 1516	Wood Roof Decking
06 1600	Sheathing
06 1753	Shop-Fabricated Wood Trusses
06 2013	Exterior Finish Carpentry
07 2100.NB2	2" Nail Base Rigid Insulation Board
07 2100.R30	R-30 Batt Insulation
07 2126	Blown Insulation
07 4113	Metal Roof Panels
07 4623.LS	Engineered Wood Lap Siding
07 7123.D	Manufactured Downspouts
07 7123.G	Manufactured Gutters
08 1423	Clad Wood Doors
08 5400	Composite Windows
09 2116.GYP	1/2" Gypsum Wallboard
26 5619	LED Exterior Lighting



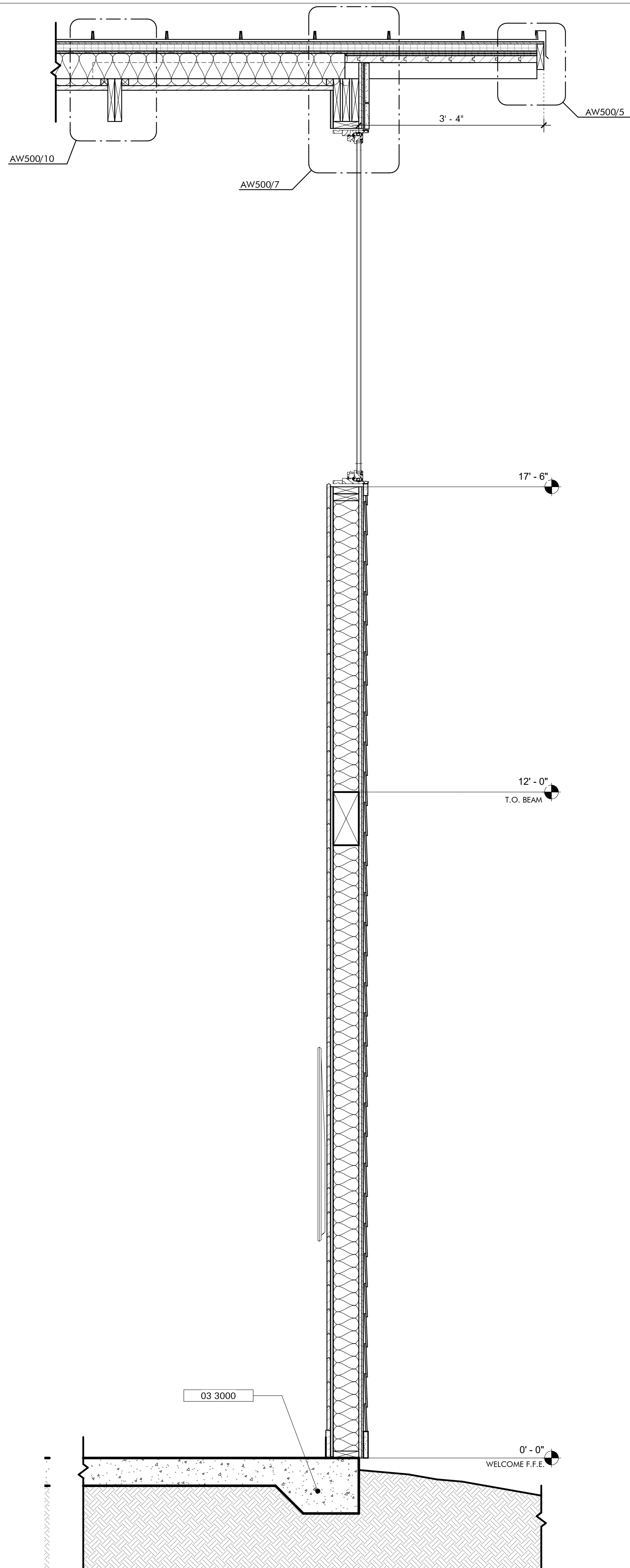
ARCHITECTURE WORKS
130 NINETEENTH STREET SOUTH
BIRMINGHAM, ALABAMA 35233
TELEPHONE: 205.320.0880
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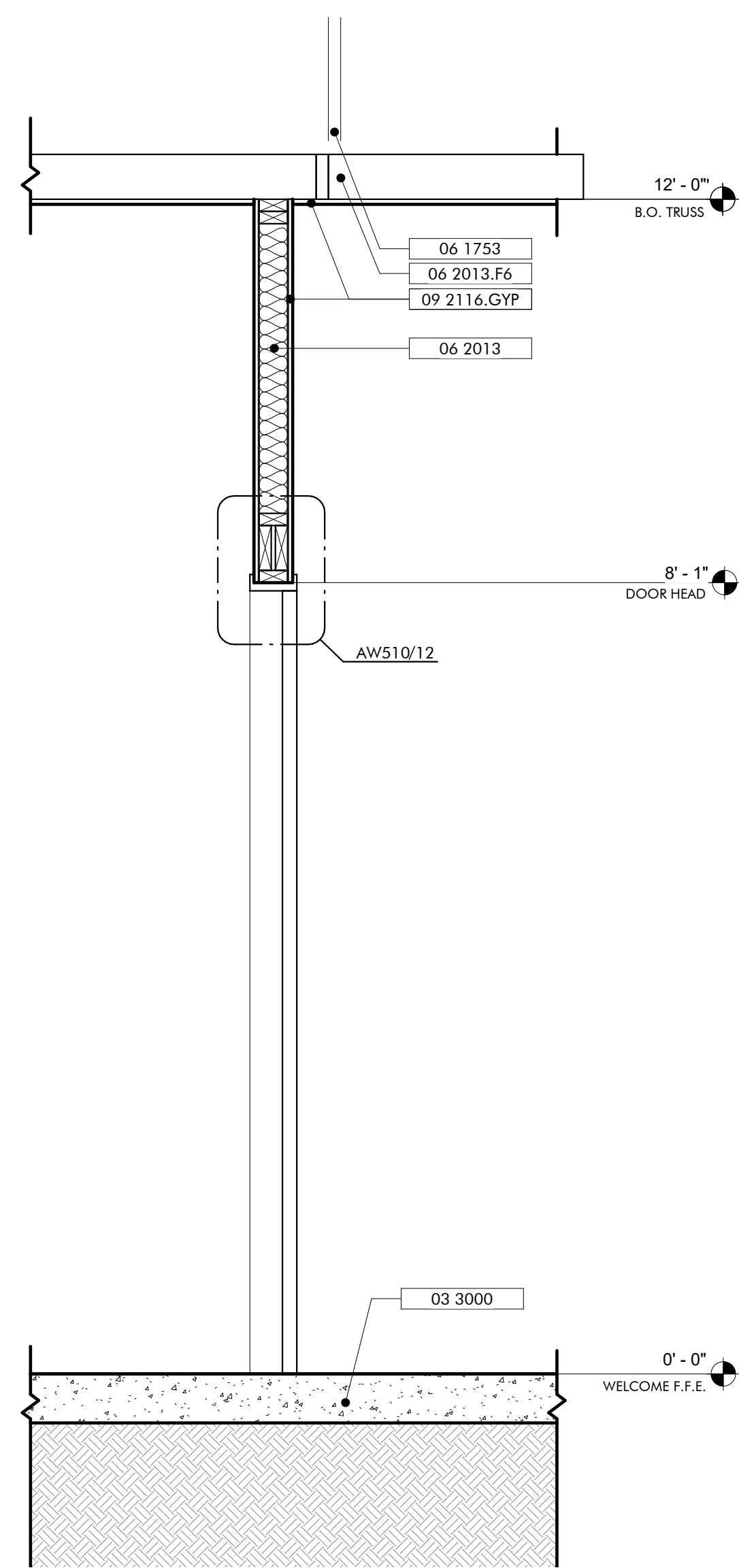
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GULF COAST CENTER FOR ECOTOURISM & SUSTAINABILITY
WELCOME HUB PACKAGE
GULF SHORES, ALABAMA

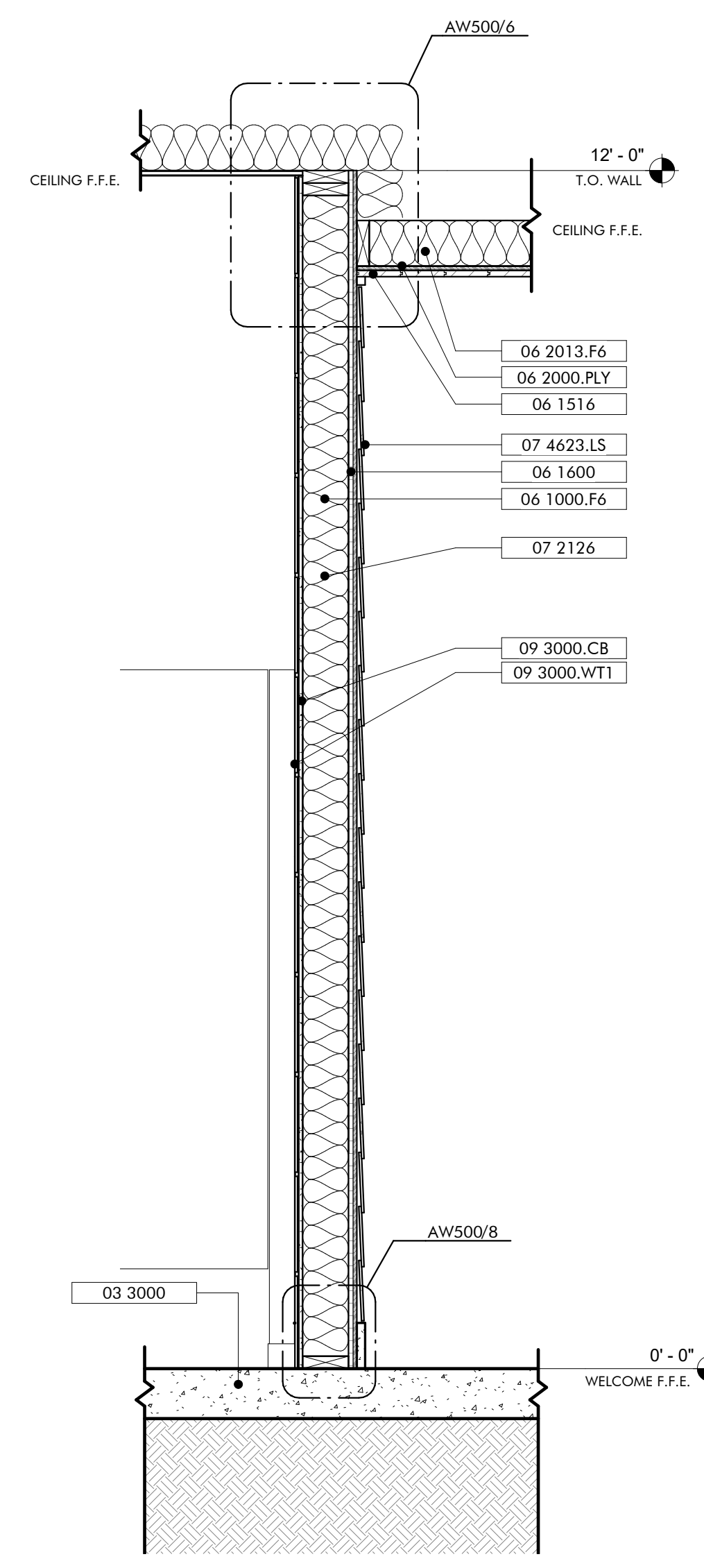
No.	19-028.000
Date	JANUARY 2, 2023
Revision	
Drawn	
Checked	
Reviewed	
Approved	
Job	
Project Status	CONFORMANCE SET
Date	MARCH 24, 2023
Sheet Name	WALL SECTIONS
Sheet No.	AW310



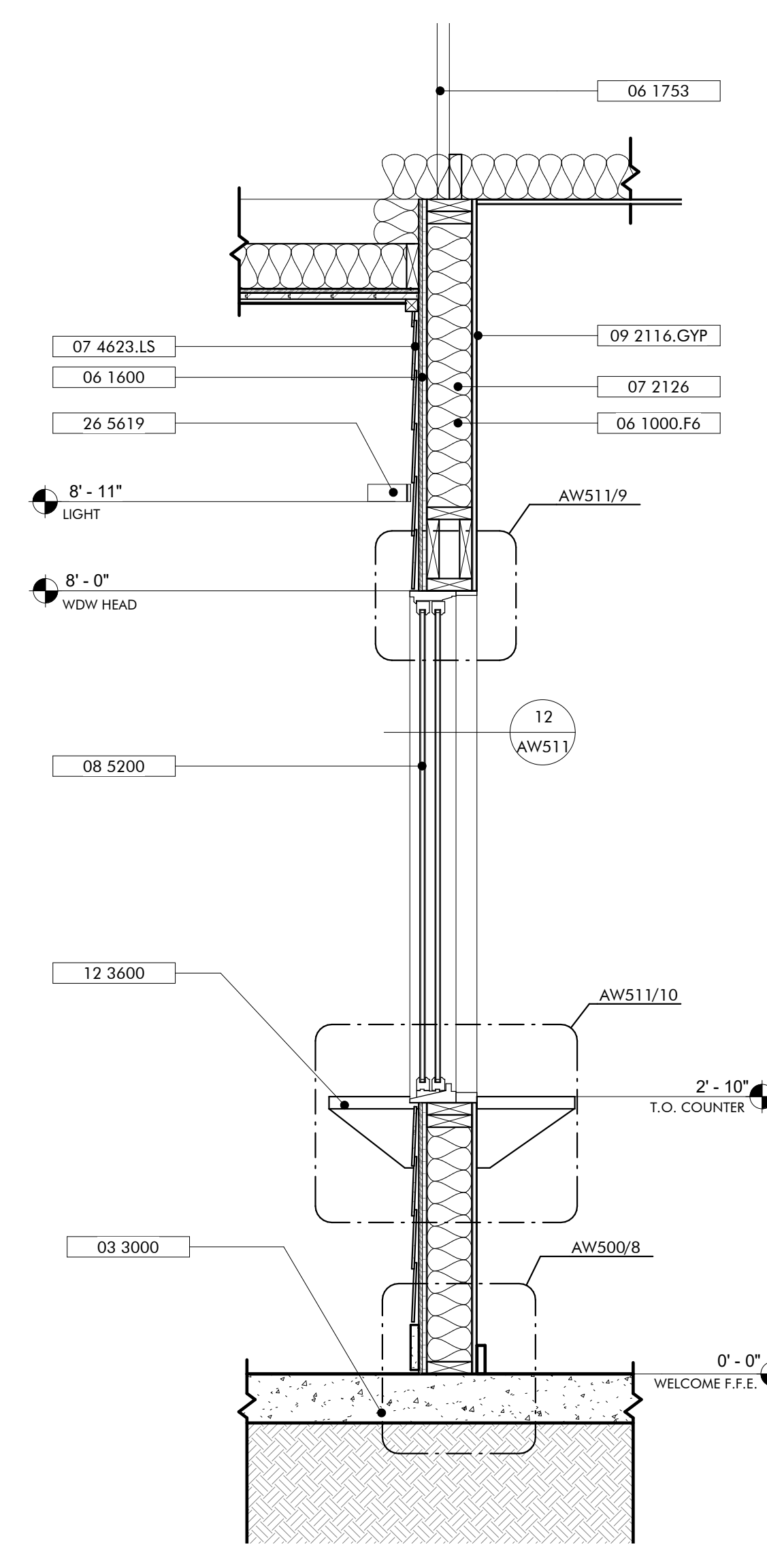
WALL SECTION
MEETING SPACE GABLE END
4
3/4" = 1'-0"



WALL SECTION
INT WALL & DROP CEILING
3
3/4" = 1'-0"



WALL SECTION
BREEZEWAY WALL
2
3/4" = 1'-0"



WALL SECTION
TRANSIT WINDOW
1
3/4" = 1'-0"

KEYNOTES

03 3000	Cast-in-Place Concrete - See Structural for reinforcement
06 1000.F6	2x6 Framing
06 1516	Wood Roof Decking
06 1600	Sheathing
06 1753	Shop-Fabricated Wood Trusses
06 2000.PLY	Stained 3/4" Plywood
06 2013	Exterior Finish Carpentry
06 2013.F6	2x6 Wood Boards
07 2126	Blown Insulation
07 4623.LS	Engineered Wood Lap Siding
08 5200	Wood Windows
09 2116.GYP	1/2" Gypsum Wallboard
09 3000.CB	Cement Board
09 3000.WT1	Porcelain Wall Tile & Grout
12 3600	Countertops
26 5619	LED Exterior Lighting



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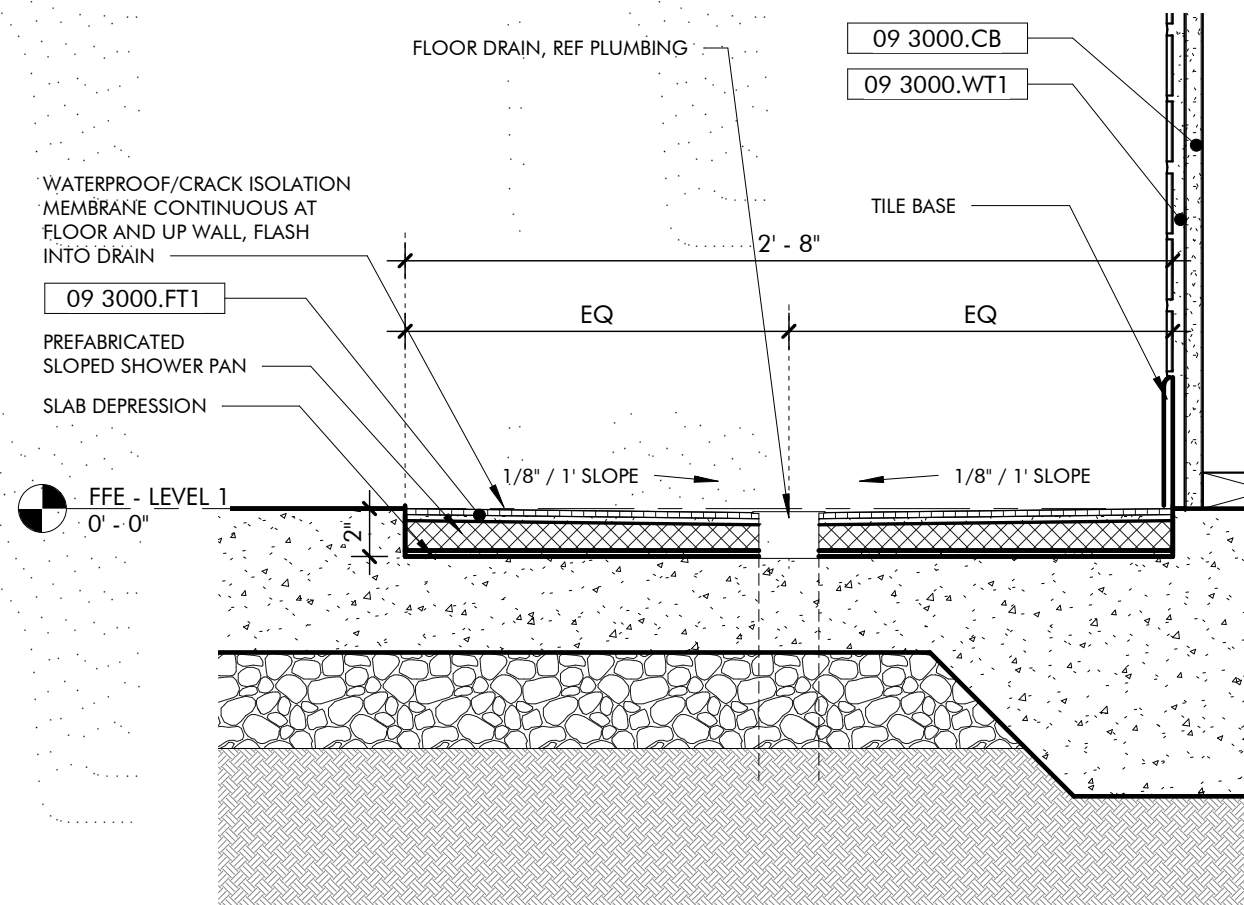
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Building Sustainability
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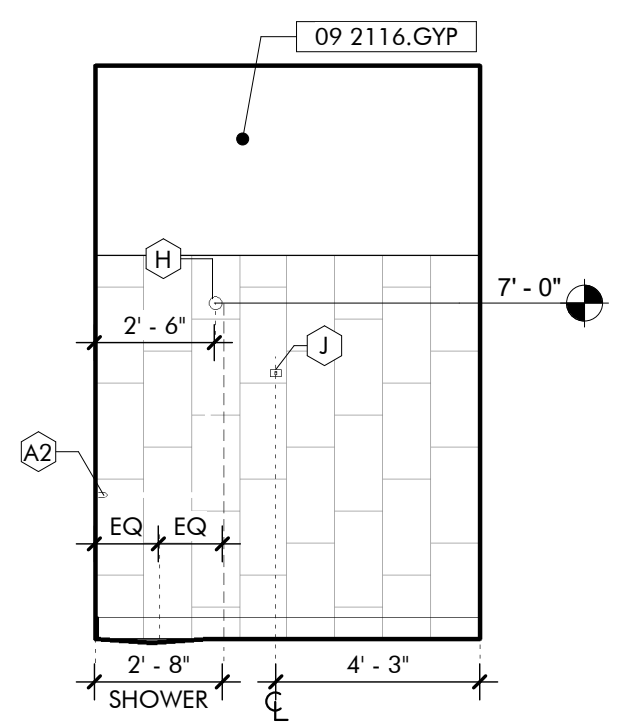
Revision	
Date	JANUARY 6, 2023
No.	19-028.000
JOB	CONFORMANCE SET
PROJECT STATUS	
DATE	MARCH 24, 2023
SHEET NAME	WALL SECTIONS
SHEET NO.	

AW311

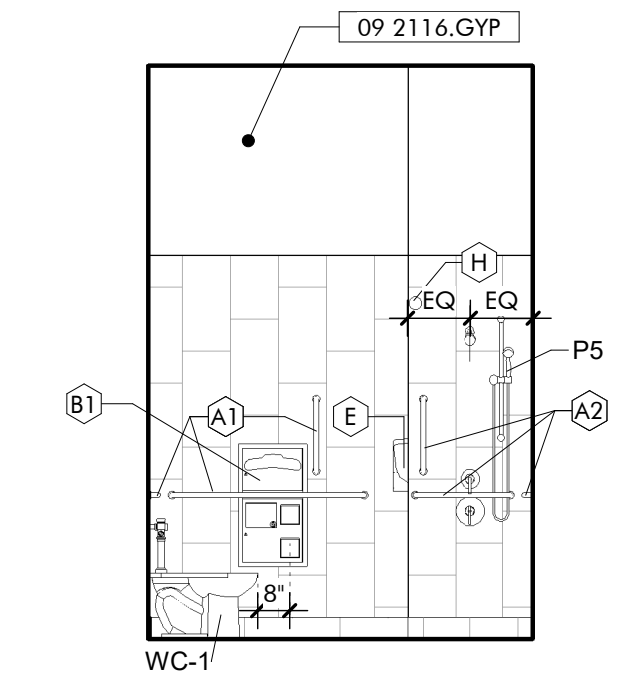
TOILET ACCESSORY SCHEDULE				
ITEM	DESCRIPTION	MANUFACTURER	MODEL #	MOUNTING
A1	18", 36" & 42" GRAB BARS	Bradley Corporation	812	SURFACE
A2	18", 24", 42"	Bradley Corporation	812	SURFACE
B1	COMBINATION SEAT COVER, TISSUE DISPENSER & NAPKIN DISPOSAL	Bradley Corporation	5912-000000	RECESSED
B2	2-STALL COMBINATION SEAT COVER, TISSUE DISPENSER & NAPKIN DISPOSAL	Bradley Corporation	591-000000	PARTITION
C	TOWEL DISPENSER, WASTE RECEPTACLE	Bradley Corporation	238-100000	SEMI-RECESSED
D	SOAP DISPENSER	Bradley Corporation	6A01-11	SURFACE
E	HAND DRYER	Bradley Corporation	2923-287400	SURFACE
F	24" x 36" CHANNEL FRAME MIRROR	Bradley Corporation	781	SURFACE
H	60" SHOWER ROD	Bradley Corporation	9538	SURFACE
J	HOOK	By Toilet Partition	911	SURFACE
K	BABY CHANGING STATION	Bradley Corporation	962	RECESSED



SECTION DETAIL
NO-THRESHOLD SHOWER
1 1/2" = 1'-0"



INTERIOR ELEVATION
STAFF/ASSISTED USE RESTROOM
1/4" = 1'-0"



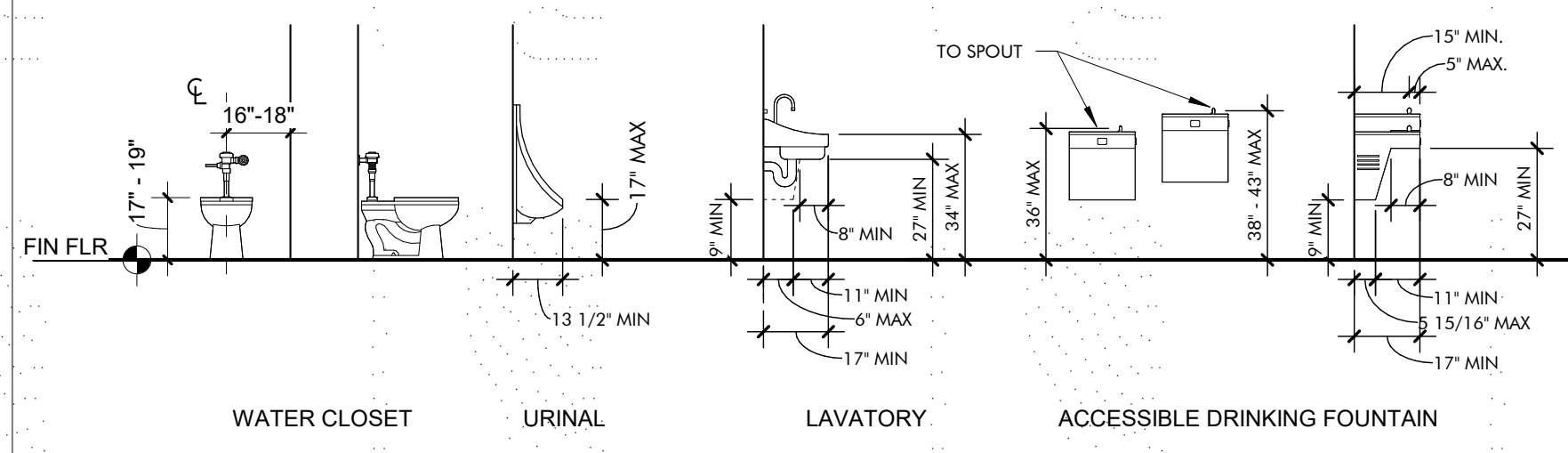
INTERIOR ELEVATION
STAFF/ASSISTED USE RESTROOM
1/4" = 1'-0"

KEYNOTES

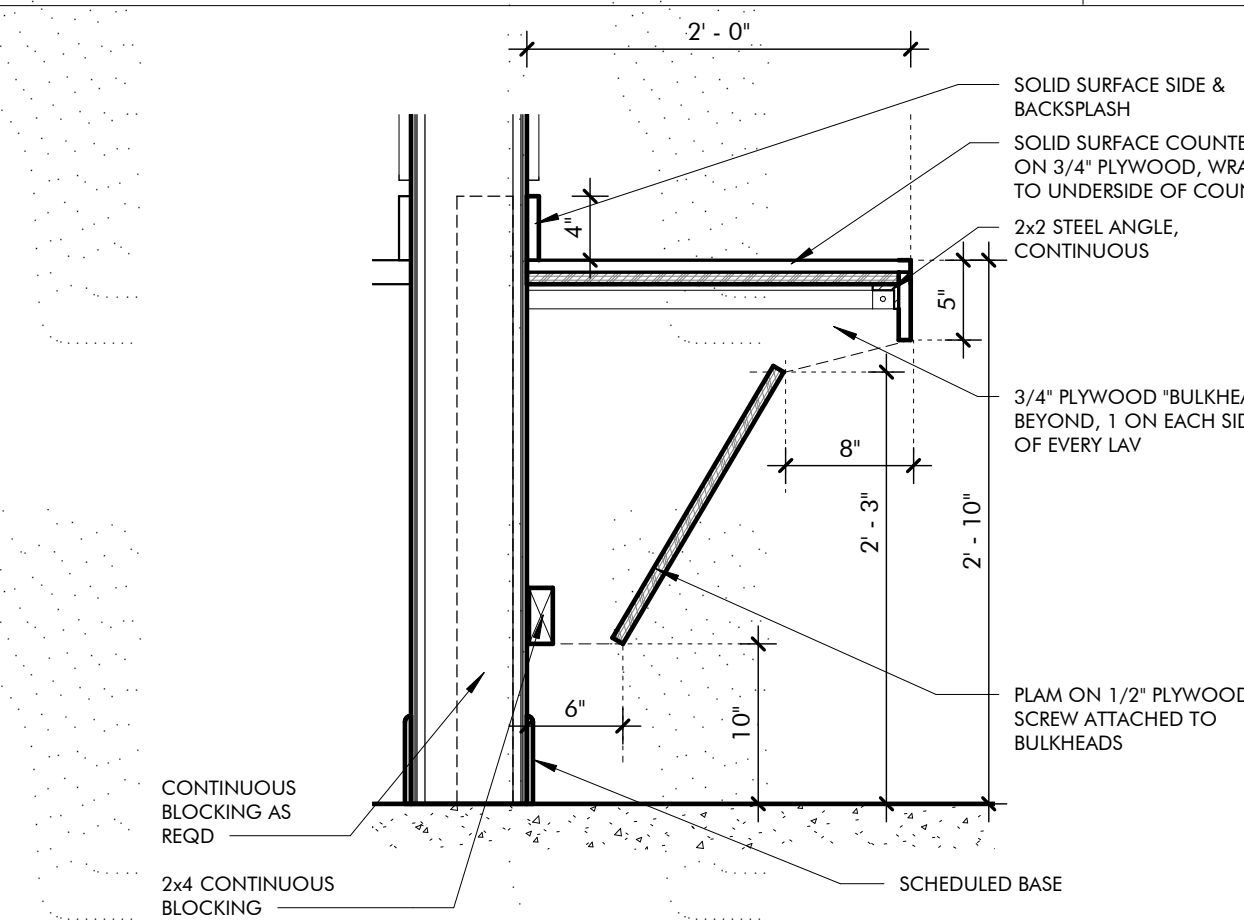
- 08 1613 Fiberglass Doors
- 09 2116.GYP 1/2" Gypsum Wallboard
- 09 3000.CB Cement Board
- 09 3000.FT1 Porcelain Floor Tile
- 09 3000.WT1 Porcelain Wall Tile & Grout
- 10 2113.17 Phenolic Toilet Compartments
- 10 2113.17.U Post Supported Urinal Screen
- 12 3600 Countertops

SHEET SPECIFIC NOTES

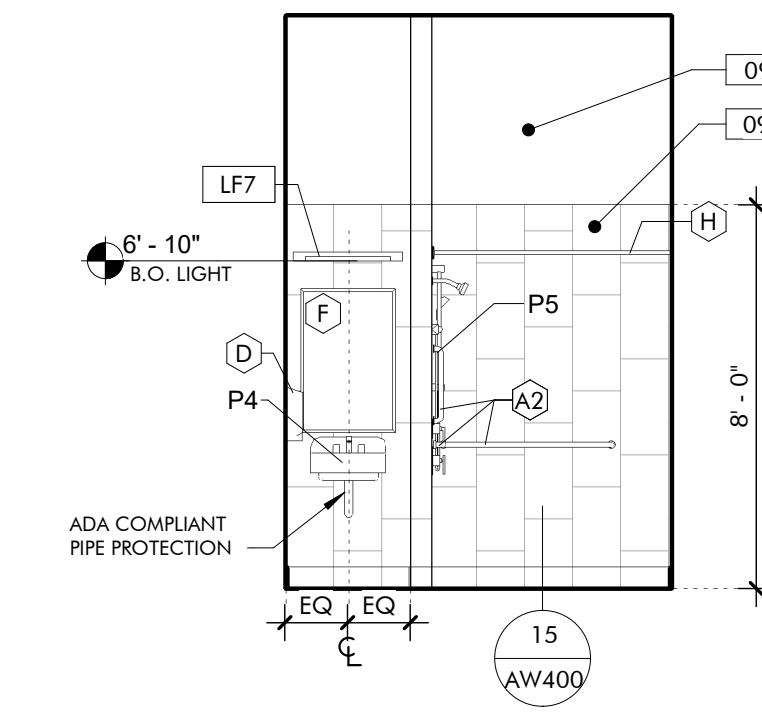
- PROVIDE MOVEMENT JOINT AT ALL INTERIOR CORNERS, PERIMETER, AND 12'-0" O.C. TYPICAL ALL LOCATIONS. SEALANT TO MATCH GROUT



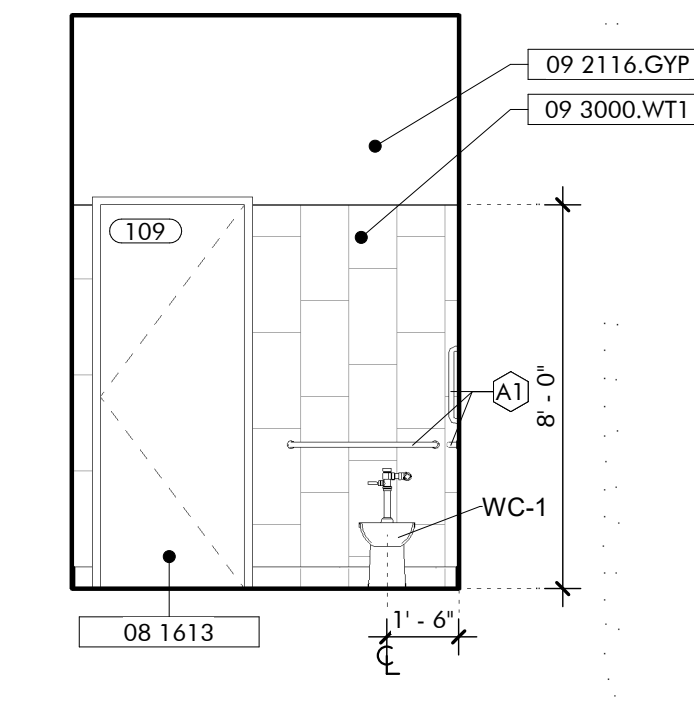
ACCESSIBLE TOILET FIXTURES
1/4" = 1'-0"



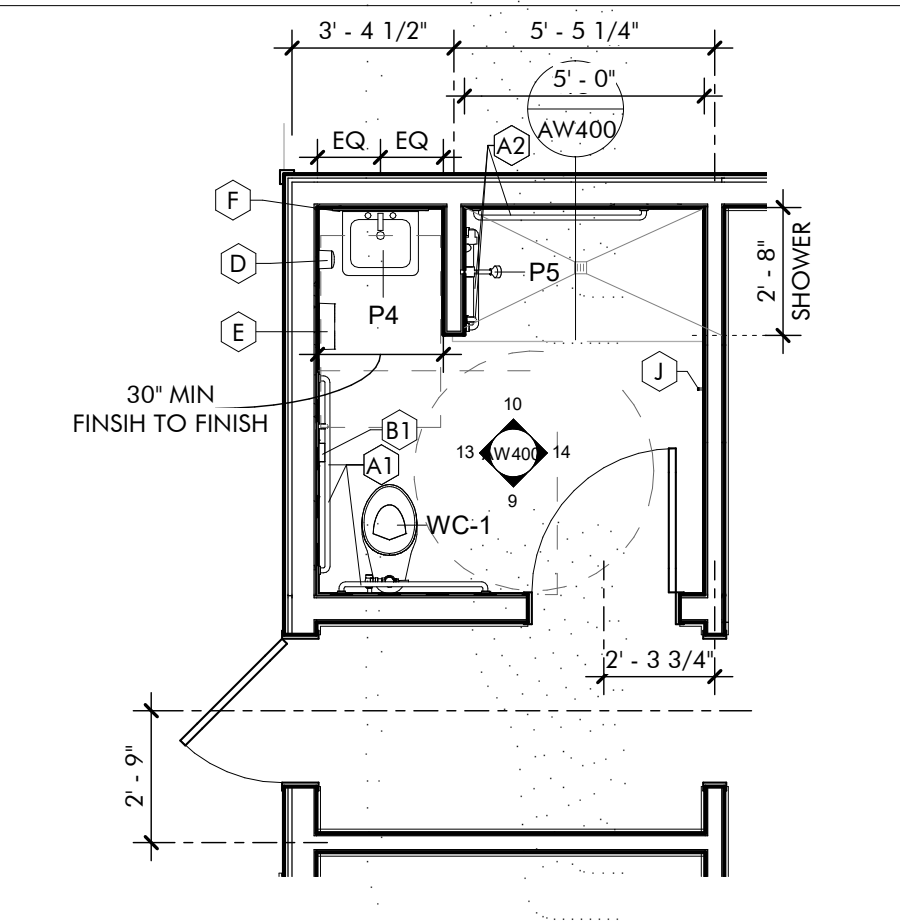
SECTION DETAIL
TYP VANITY APRON
1" = 1'-0"



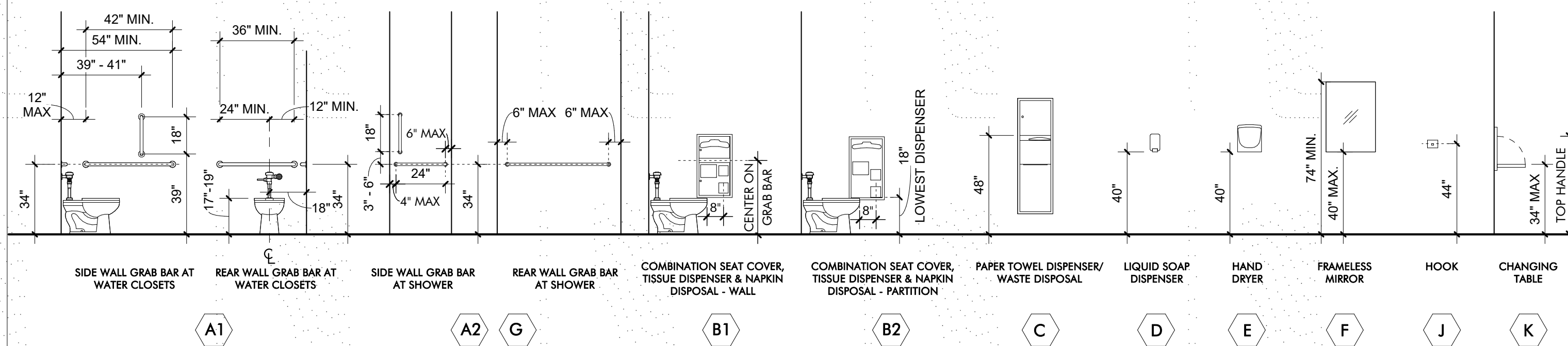
INTERIOR ELEVATION
STAFF/ASSISTED USE RESTROOM
1/4" = 1'-0"



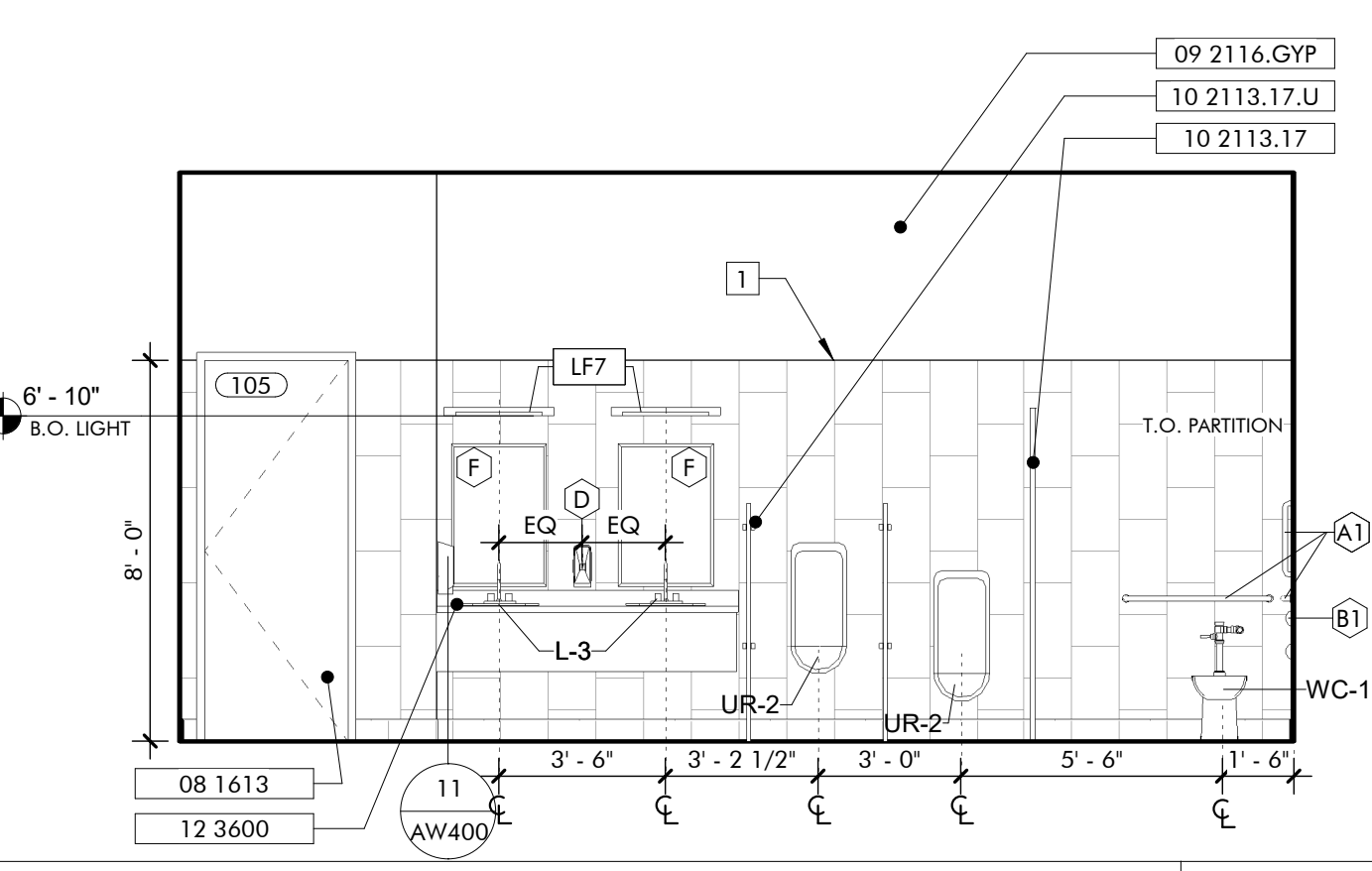
INTERIOR ELEVATION
STAFF/ASSISTED USE RESTROOM
1/4" = 1'-0"



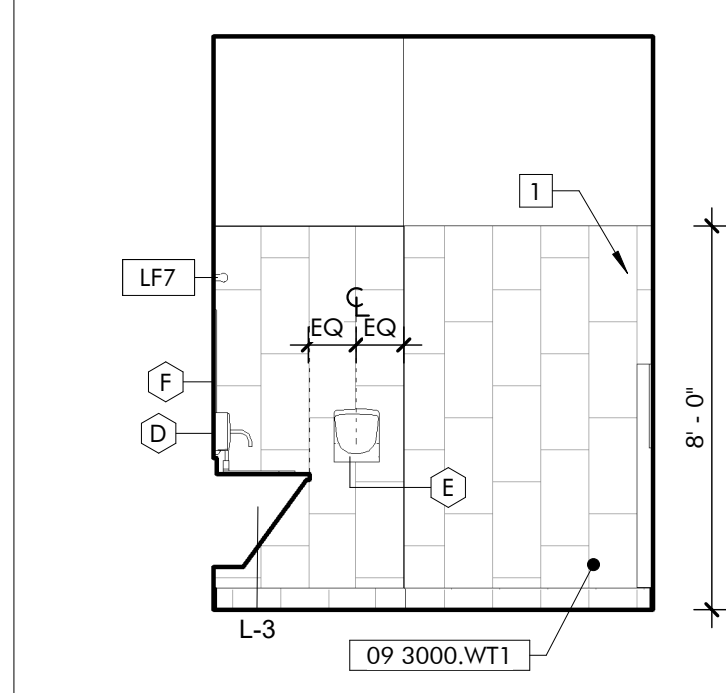
ENLARGED FLOOR PLAN
STAFF / ASSISTED USED RESTROOM
1/4" = 1'-0"



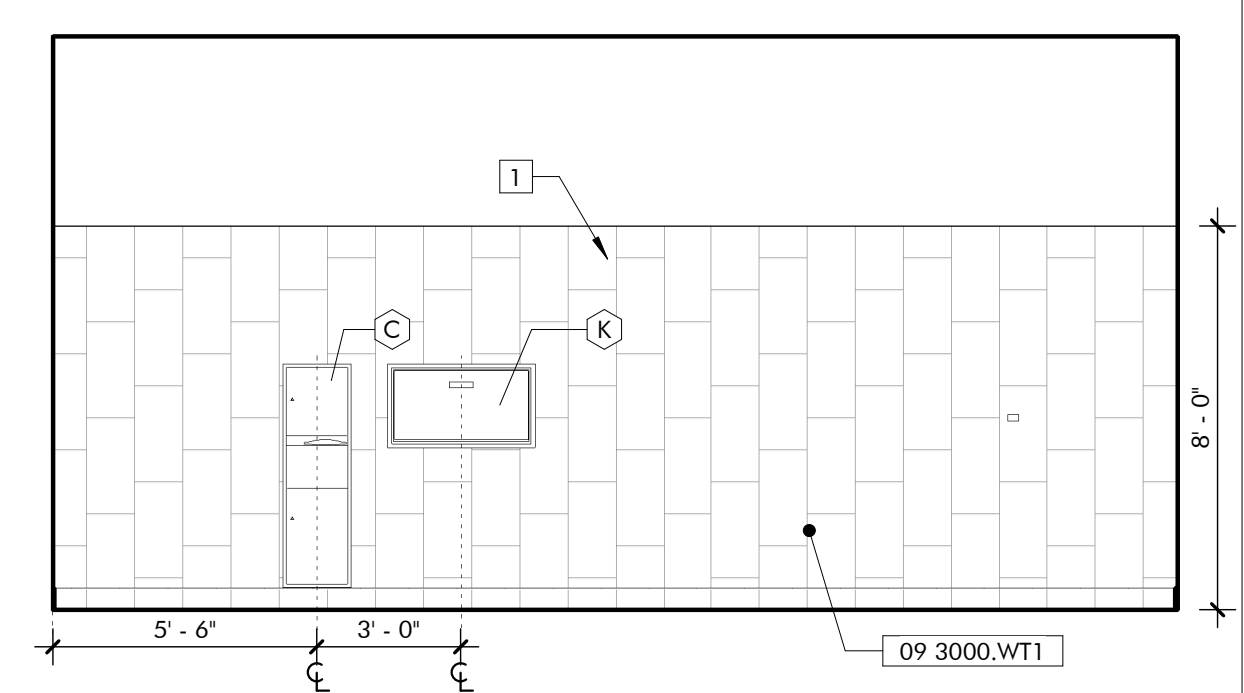
ACCESSIBLE TOILET ACCESSORIES
1/4" = 1'-0"



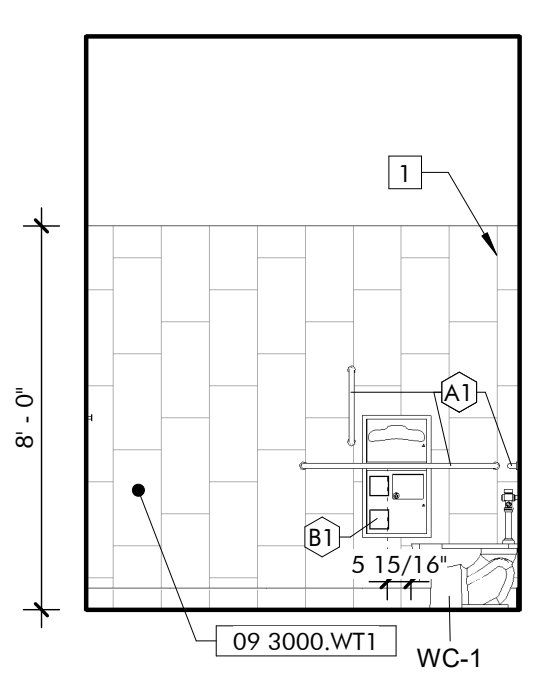
INTERIOR ELEVATION
MEN'S RESTROOM
1/4" = 1'-0"



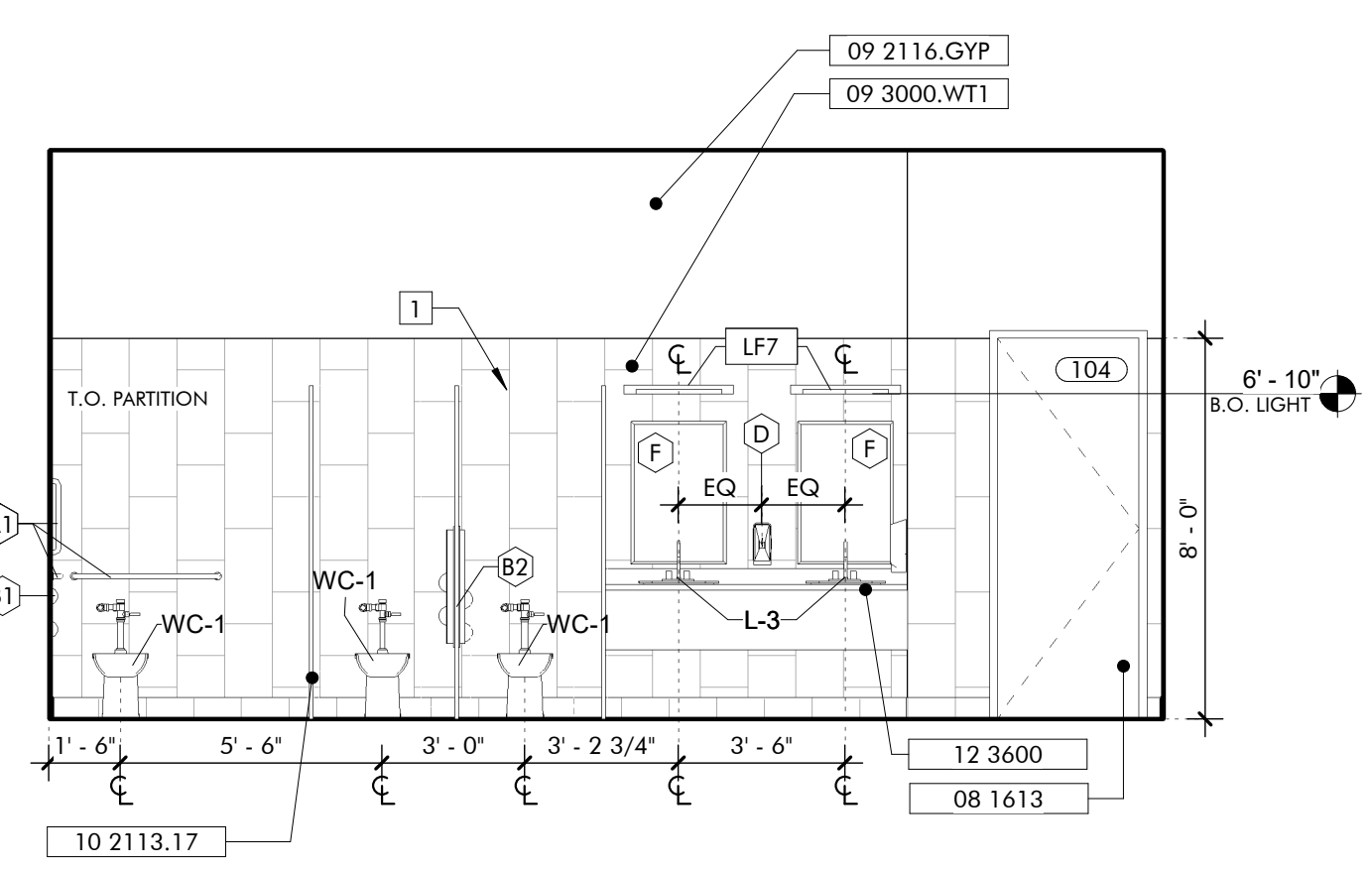
INTERIOR ELEVATION
WOMEN'S RESTROOM
1/4" = 1'-0"



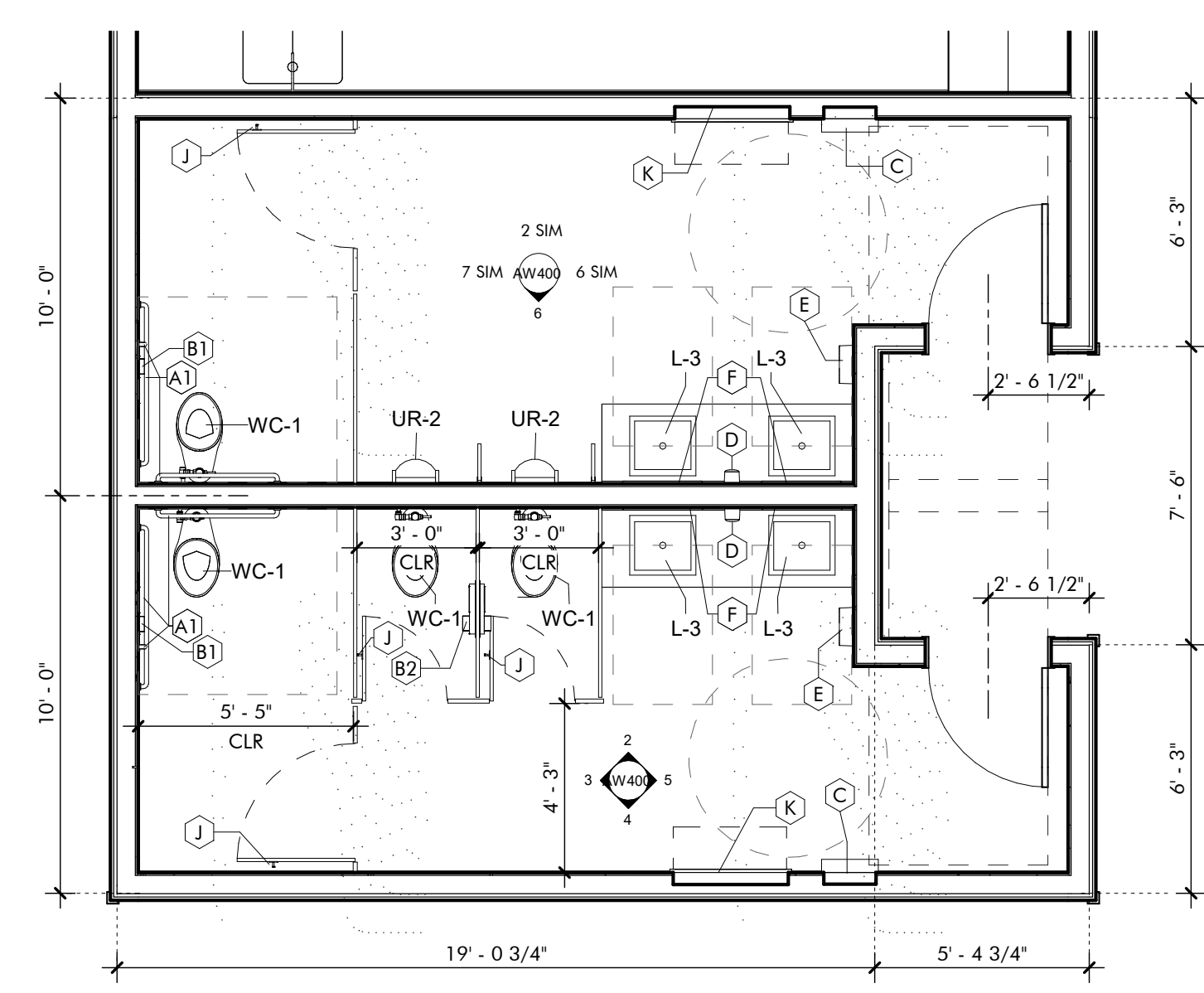
INTERIOR ELEVATION
WOMEN'S RESTROOM
1/4" = 1'-0"



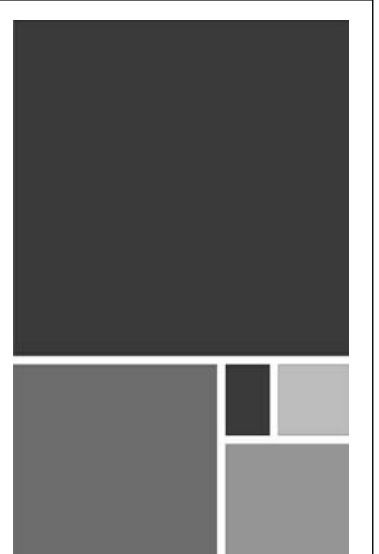
INTERIOR ELEVATION
WOMEN'S RESTROOM
1/4" = 1'-0"



INTERIOR ELEVATION
WOMEN'S RESTROOM
1/4" = 1'-0"



ENLARGED FLOOR PLAN
PUBLIC RESTROOMS
1/4" = 1'-0"



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GULF COAST CENTER FOR ECOTOURISM & SUSTAINABILITY
WELCOME HUB PACKAGE
GULF SHORES, ALABAMA

Job No.	19-028-000
Project Status	CONFORMANCE SET
Date	MARCH 24, 2023
Sheet Name	RR PLANS & ELEVATIONS
Sheet No.	

AW400



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GULF SHORES, ALABAMA

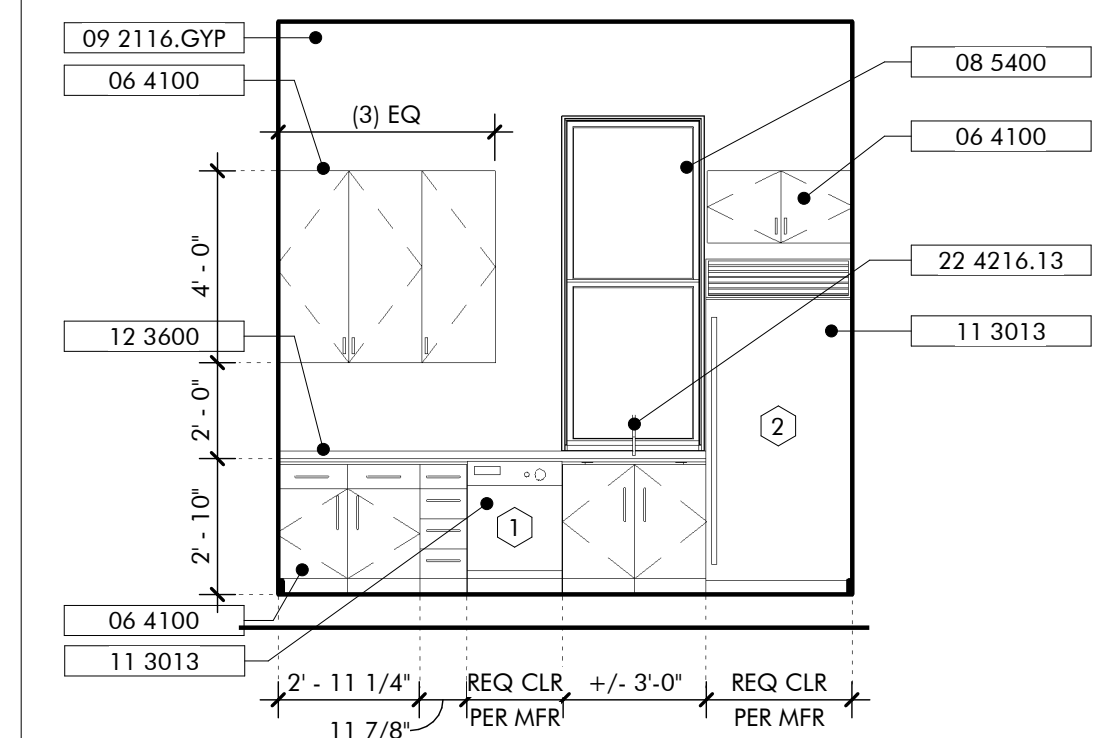
KEYNOTES

- 06 1753 Shop-Fabricated Wood Trusses
- 06 1816 Glued-Laminated Columns
- 06 2000 Finish Carpentry
- 06 2000.SWB Stained Wood Boards
- 06 4100 Architectural Wood Casework
- 08 1613 Fiberglass Doors
- 08 5200 Wood Windows
- 08 5400 Composite Windows
- 09 2116.GYP 1/2" Gypsum Wallboard
- 11 3013 Residential Appliances
- 12 3600 Countertops
- 22 4216.13 Commercial Lavatories
- 26 5119 LED Interior Lighting

GENERAL NOTES

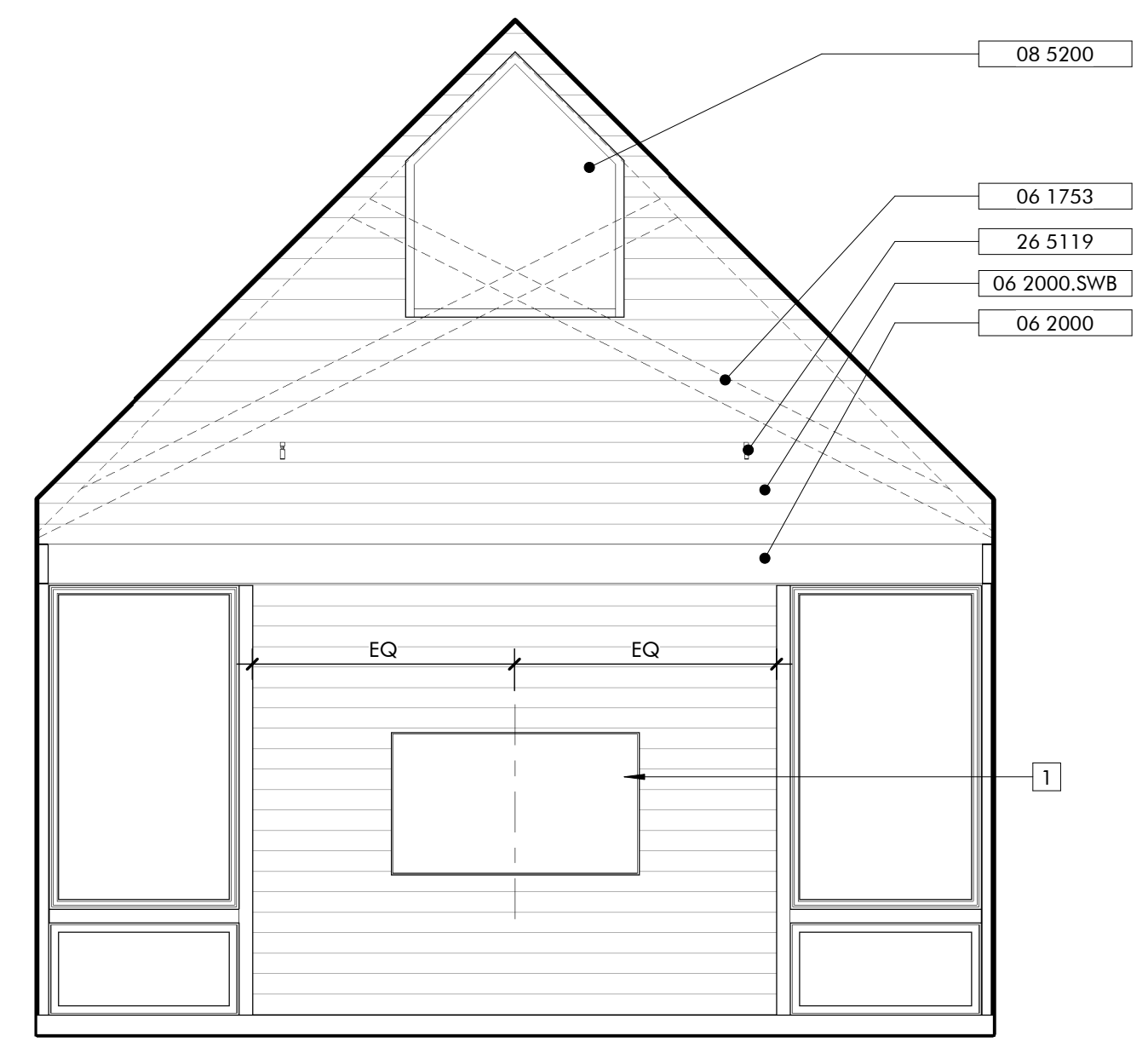
SHEET SPECIFIC NOTES

- 1 MONITORS, PROVIDE BLOCKING IN WALL

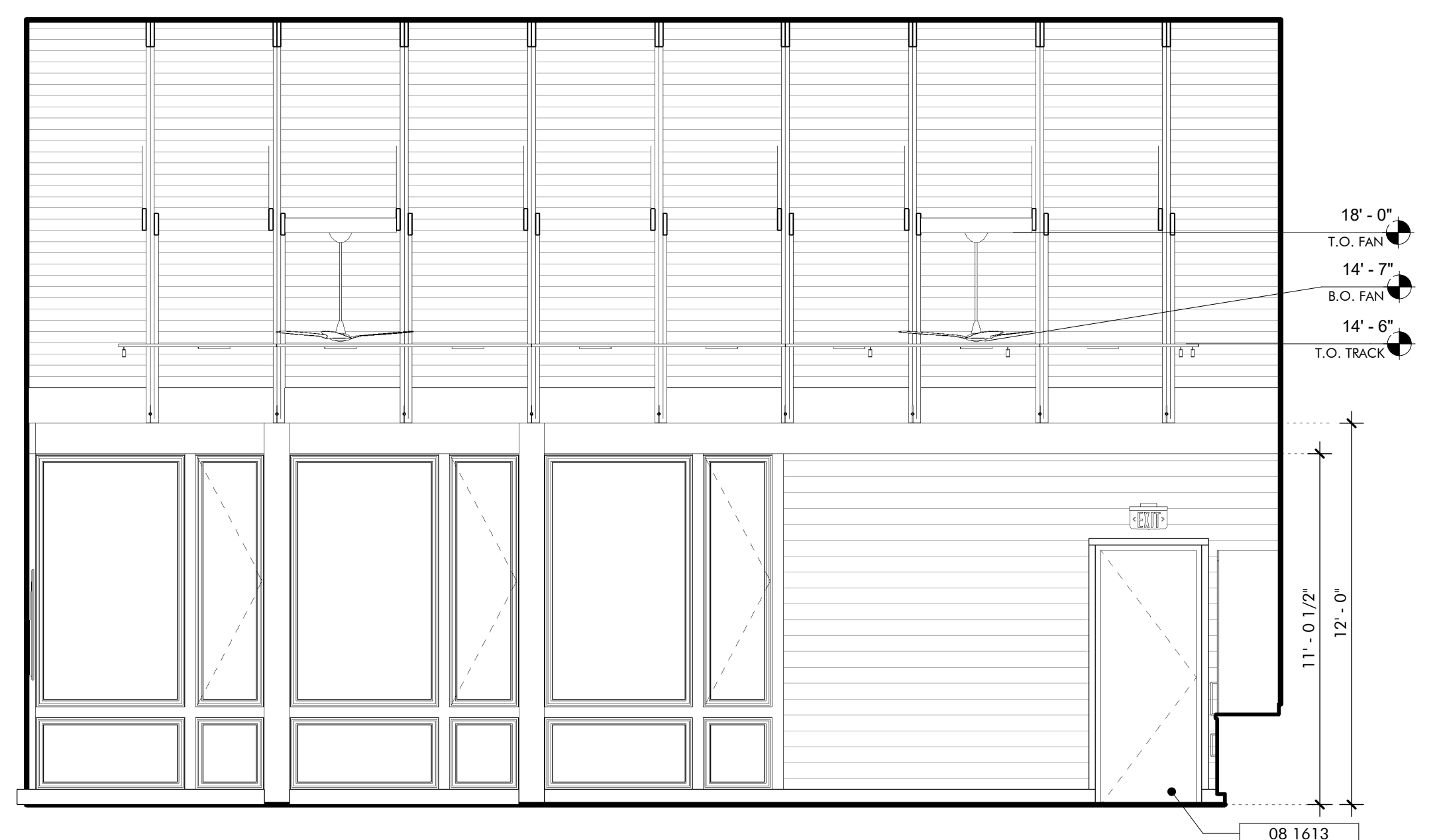


INTERIOR ELEVATION 5
BREAK ROOM GALLEY
1/4" = 1'-0"

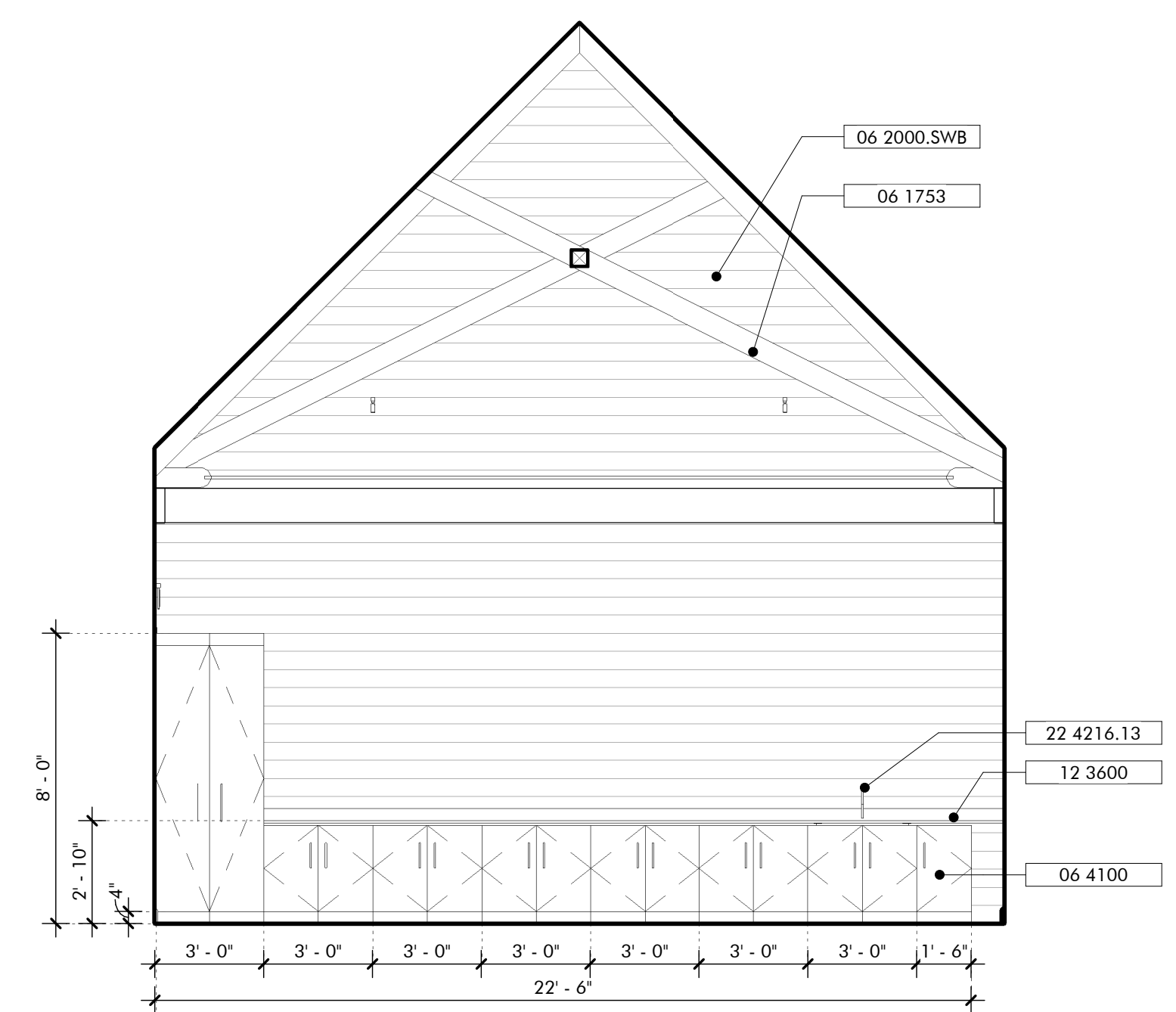
EQUIPMENT SCHEDULE		
ITEM	COUNT	DESCRIPTION
1	1	24" X 24" X 34" COMMERCIAL UNDERCOUNTER DISHWASHER
2	1	Stainless Steel Door Refrigerator



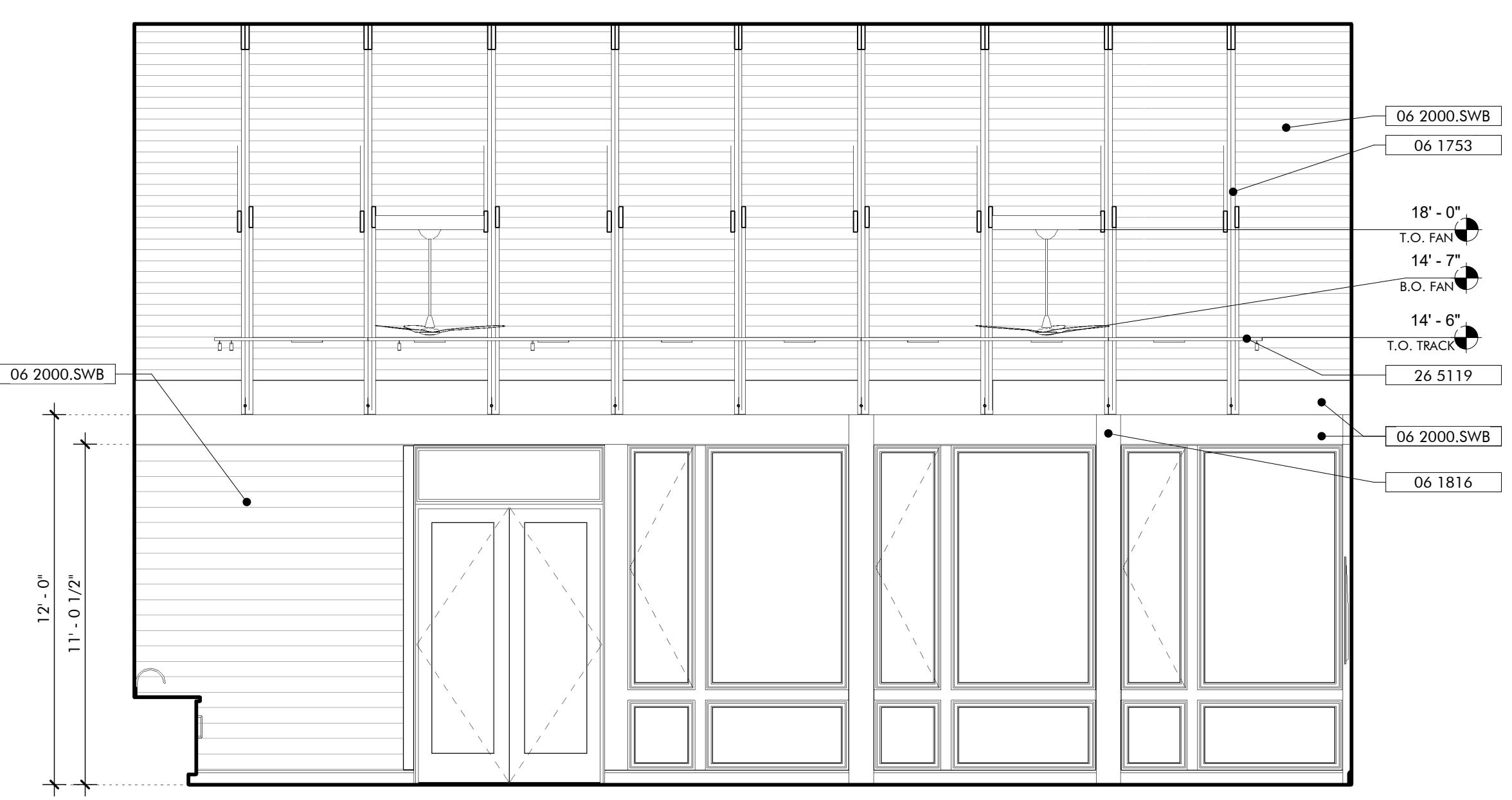
INTERIOR ELEVATION 4
MEETING SPACE NORTH
1/4" = 1'-0"



INTERIOR ELEVATION 3
MEETING SPACE EAST
1/4" = 1'-0"

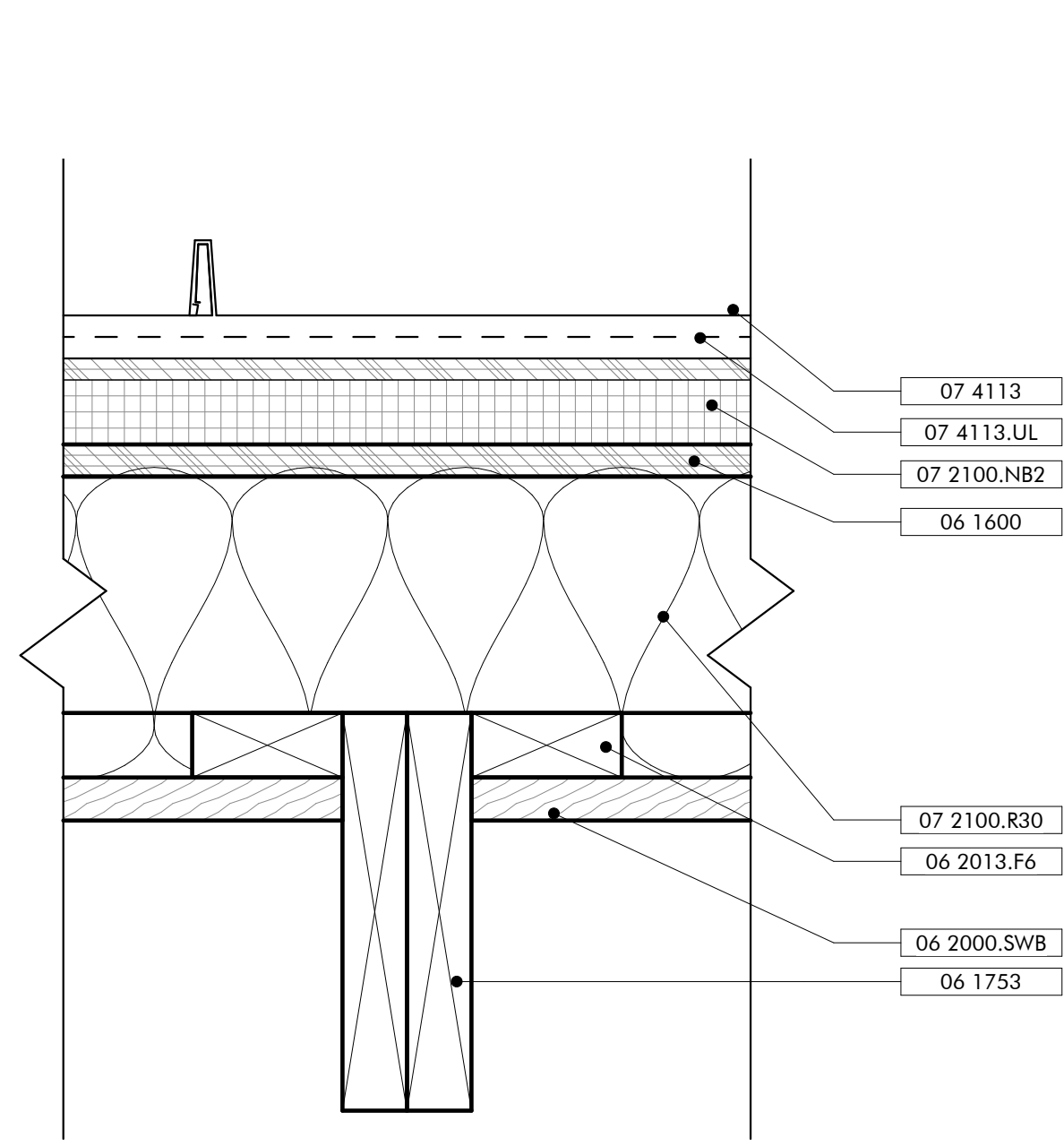


INTERIOR ELEVATION 2
MEETING ROOM STORAGE SOUTH
1/4" = 1'-0"

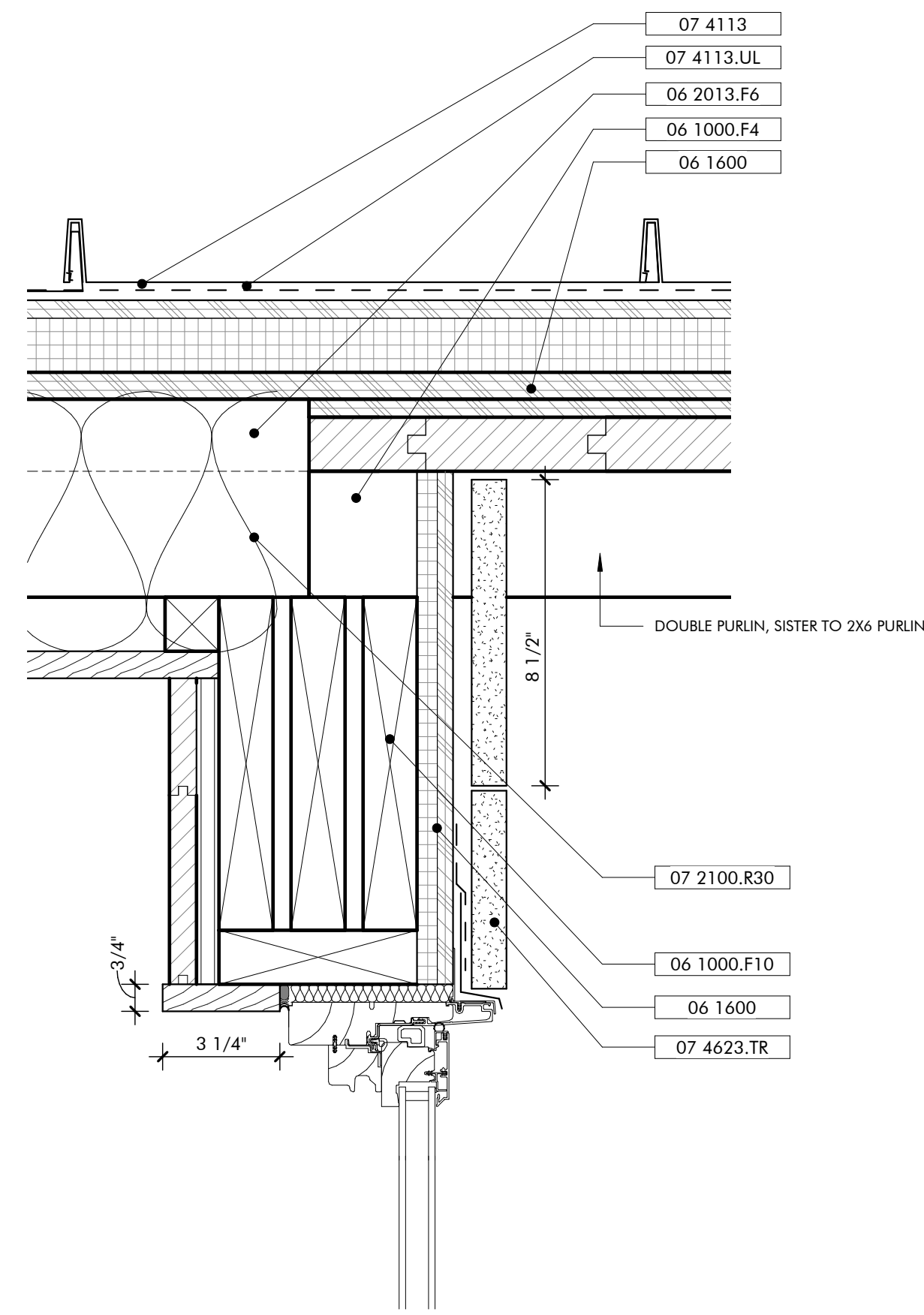


INTERIOR ELEVATION 1
MEETING SPACE WEST
1/4" = 1'-0"

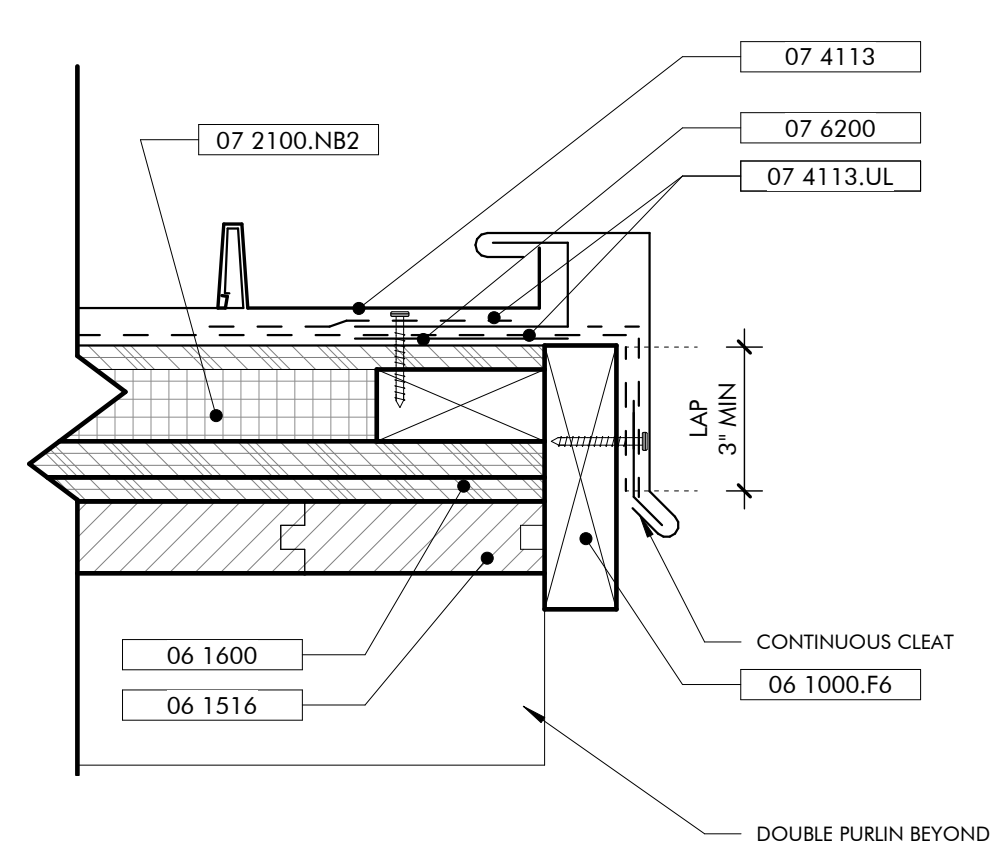
No.	2
Date	JANUARY 6, 2023
Revision	
Job	19-028.000
Project Status	CONFORMANCE SET
Date	MARCH 24, 2023
Sheet Name	INTERIOR ELEVATIONS
Sheet No.	AW410



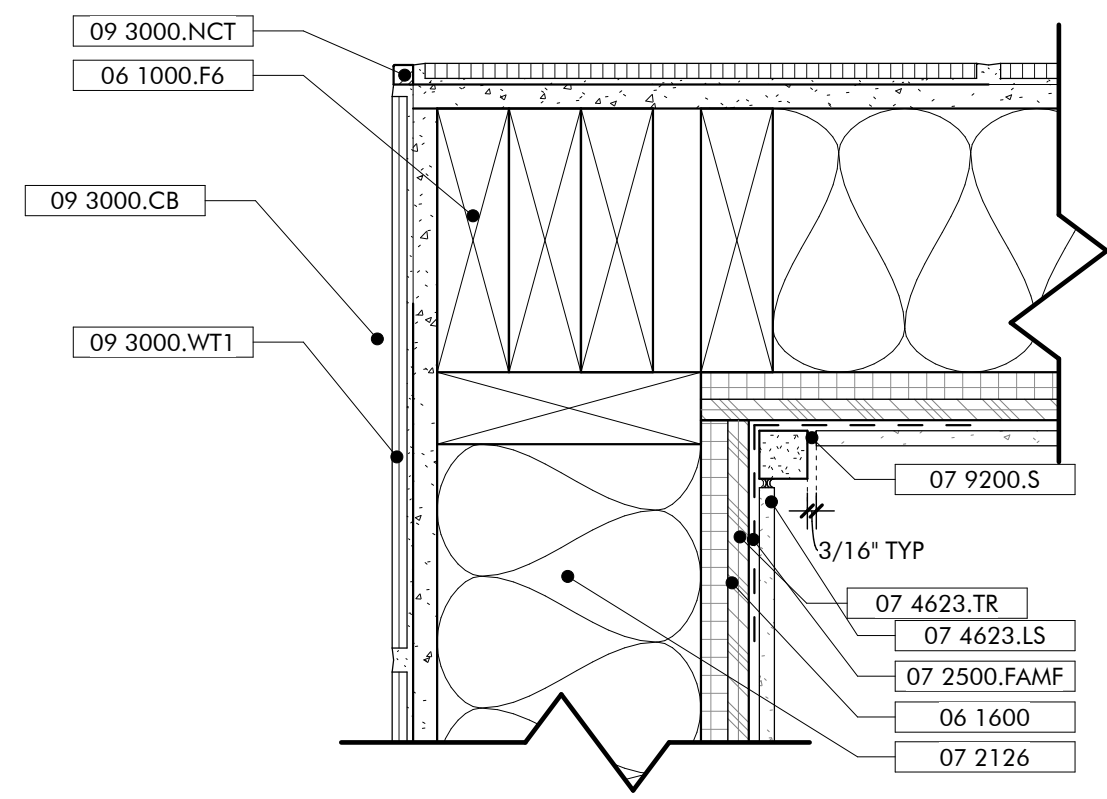
ROOF DETAIL 10
STOREFRONT @ GABLE END
3" = 1'-0"



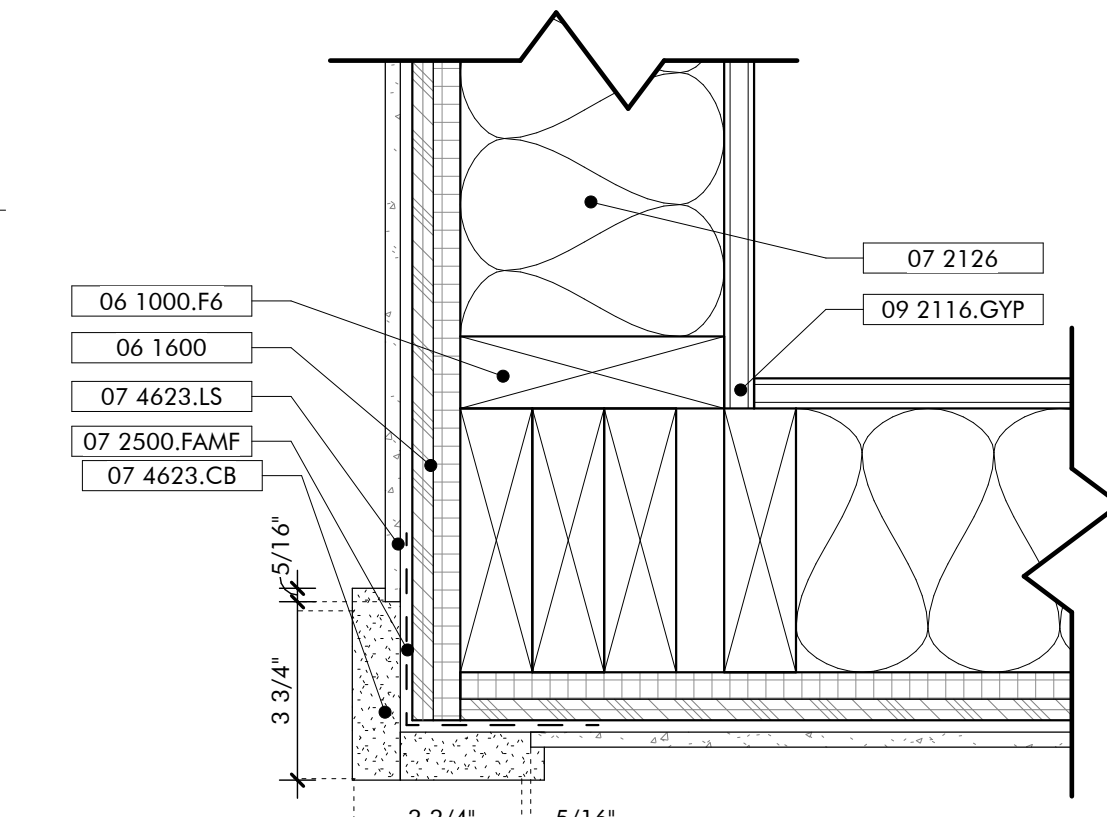
ROOF DETAIL 7
STOREFRONT @ GABLE END
3" = 1'-0"



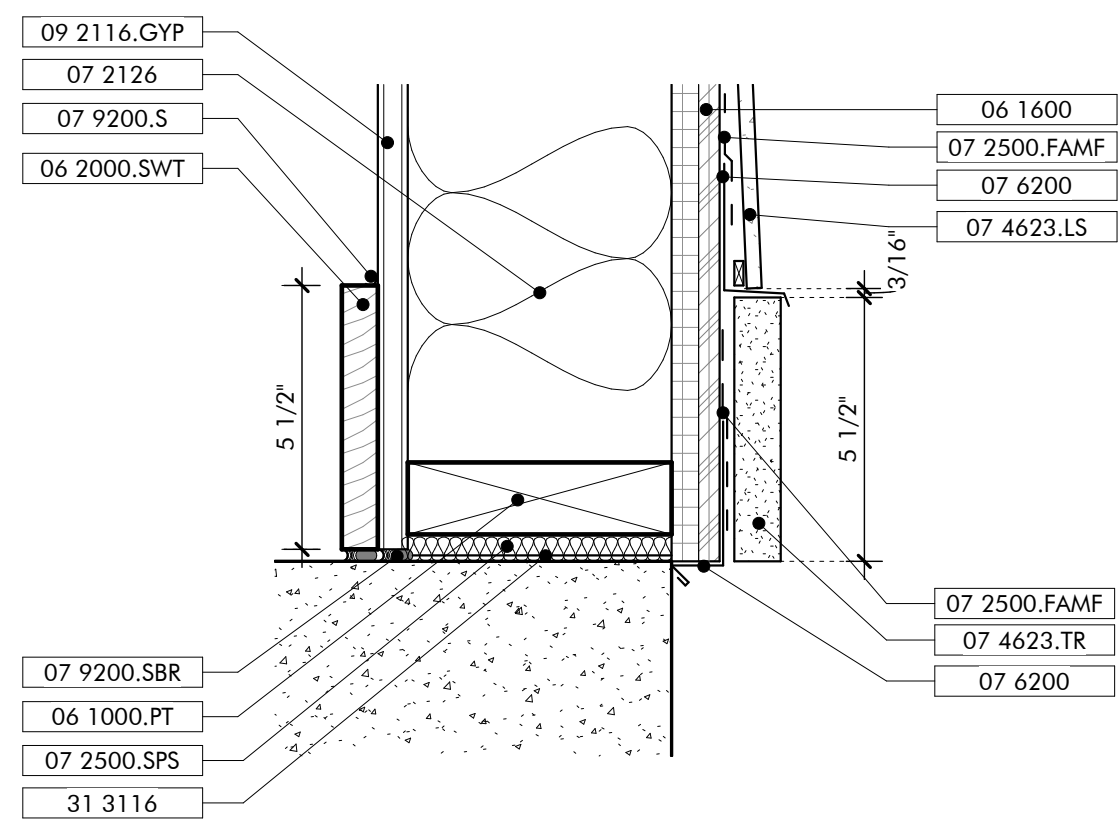
ROOF DETAIL 5
METAL ROOF RAKE
3" = 1'-0"



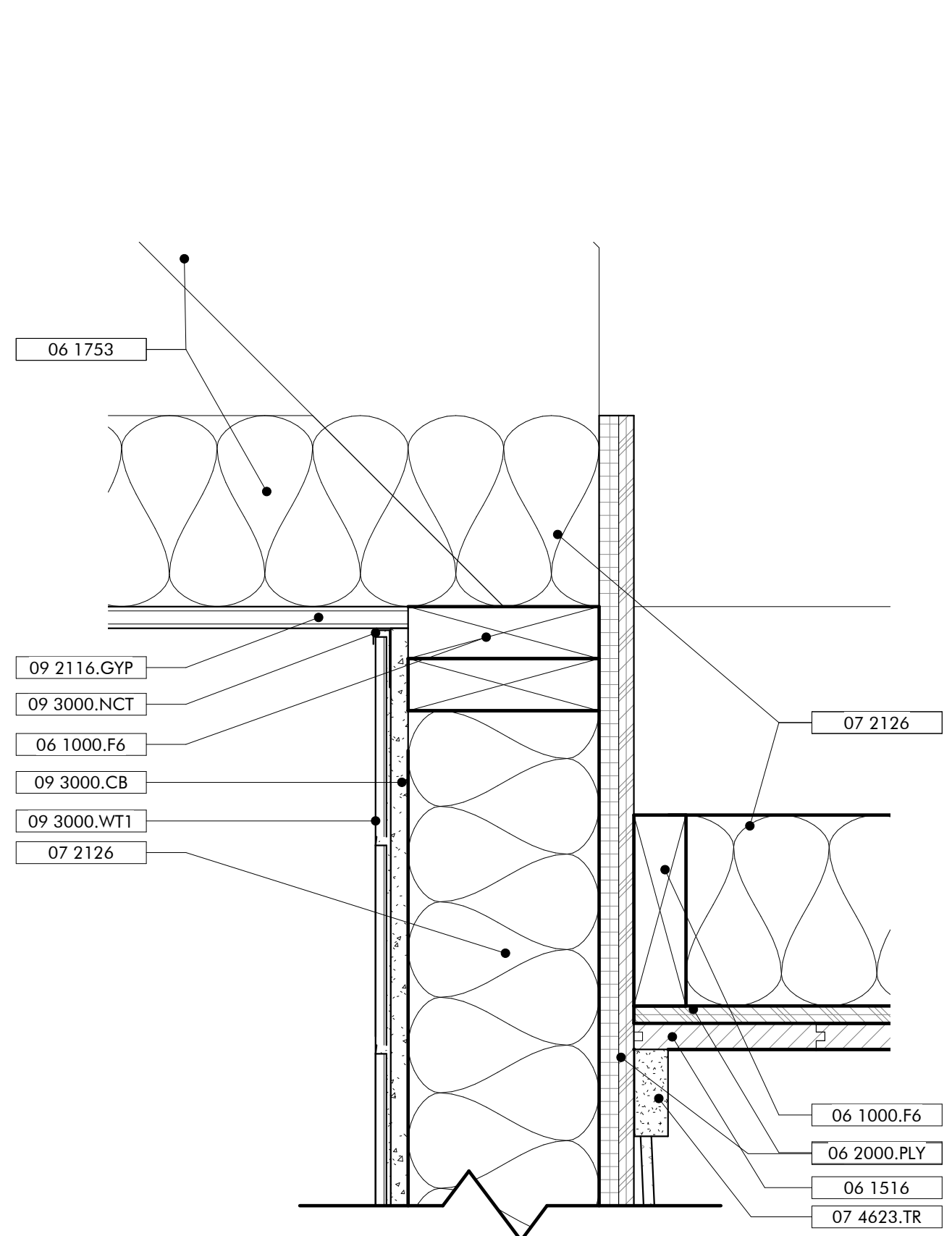
PLAN DETAIL 3
TYP INSIDE CORNER
3" = 1'-0"



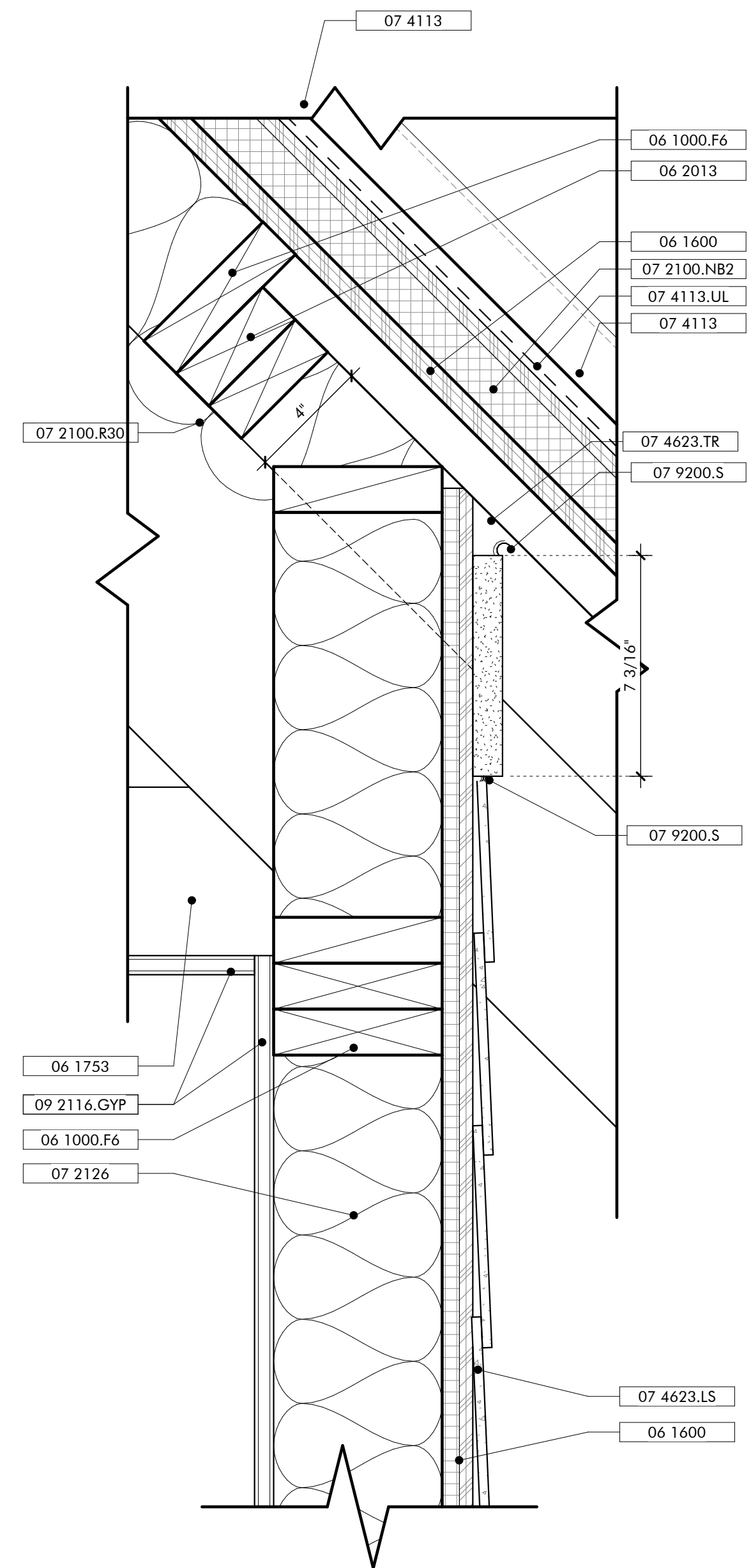
PLAN DETAIL 2
TYP OUTSIDE CORNER
3" = 1'-0"



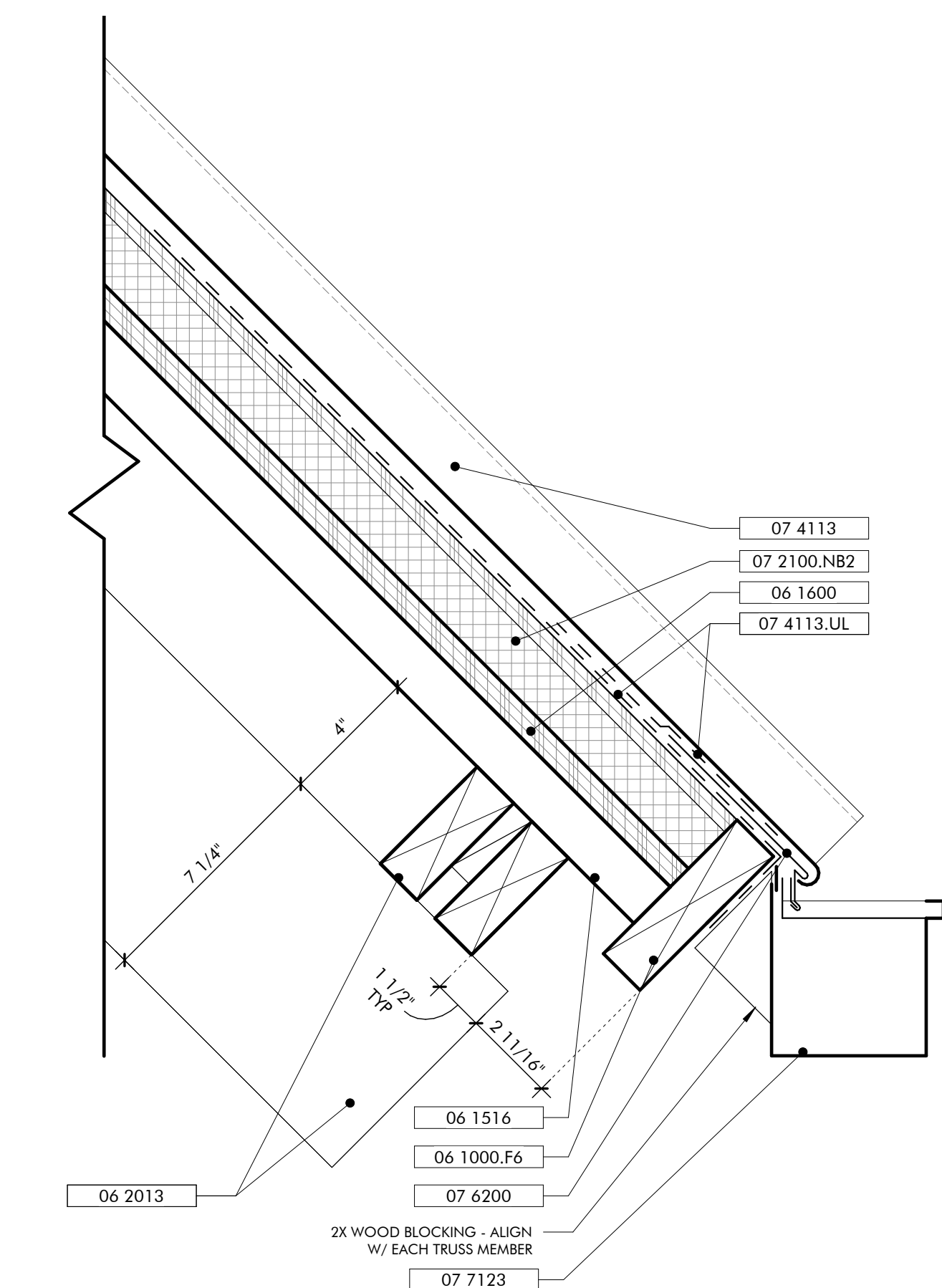
SECTION DETAIL 9
TYP ROOF EAVE & WIN
3" = 1'-0"



SECTION DETAIL 6
SECTION DETAIL BREEZEWAY WALL
3" = 1'-0"



ROOF DETAIL 4
TYP ROOF EAVE & WIN
3" = 1'-0"



ROOF DETAIL 1
WELCOME HUB EAVE
3" = 1'-0"

KEYNOTES

- 06 1000.F4 2x4 Framing
- 06 1000.F6 2x6 Framing
- 06 1000.F10 2x10 Framing
- 06 1000.PT Pressure Treated Sill Plate
- 06 1516 Wood Roof Decking
- 06 1600 Sheathing
- 06 1753 Shop-Fabricated Wood Trusses
- 06 2000.PLY Stained 3/4" Plywood
- 06 2000.SWB Stained Wood Boards
- 06 2000.SWT Stained Wood Trim
- 06 2013 Exterior Finish Carpentry
- 06 2013.F6 2x6 Wood Boards
- 07 2100.NB2 2" Nail Base Rigid Insulation Board
- 07 2100.R30 R-30 Batt Insulation
- 07 2126 Fluid Applied Membrane Flashing
- 07 2500.FAMF Sill Plate Sealer
- 07 2500.SPS Metal Roof Panels
- 07 4113 Roof Underlayment
- 07 4113.UL Engineered Wood Center Board
- 06 2013 Engineered Wood Lap Siding
- 07 4623.TR Engineered Wood Trim
- 07 6200 Sheet Metal Flashing and Trim
- 07 7123 Manufactured Gutters and Downspouts
- 07 9200.S Sealant
- 07 9200.SBR Sealant and Backer Rod
- 09 2116.GYP 1/2" Gypsum Wallboard
- 09 3000.CB Cement Board
- 09 3000.NCT Non-Ceramic Trim
- 09 3000.WT1 Porcelain Wall Tile & Grout
- 31 3116 Terrazzo Control

GENERAL NOTES

SHEET SPECIFIC NOTES

NOT FOR CONSTRUCTION



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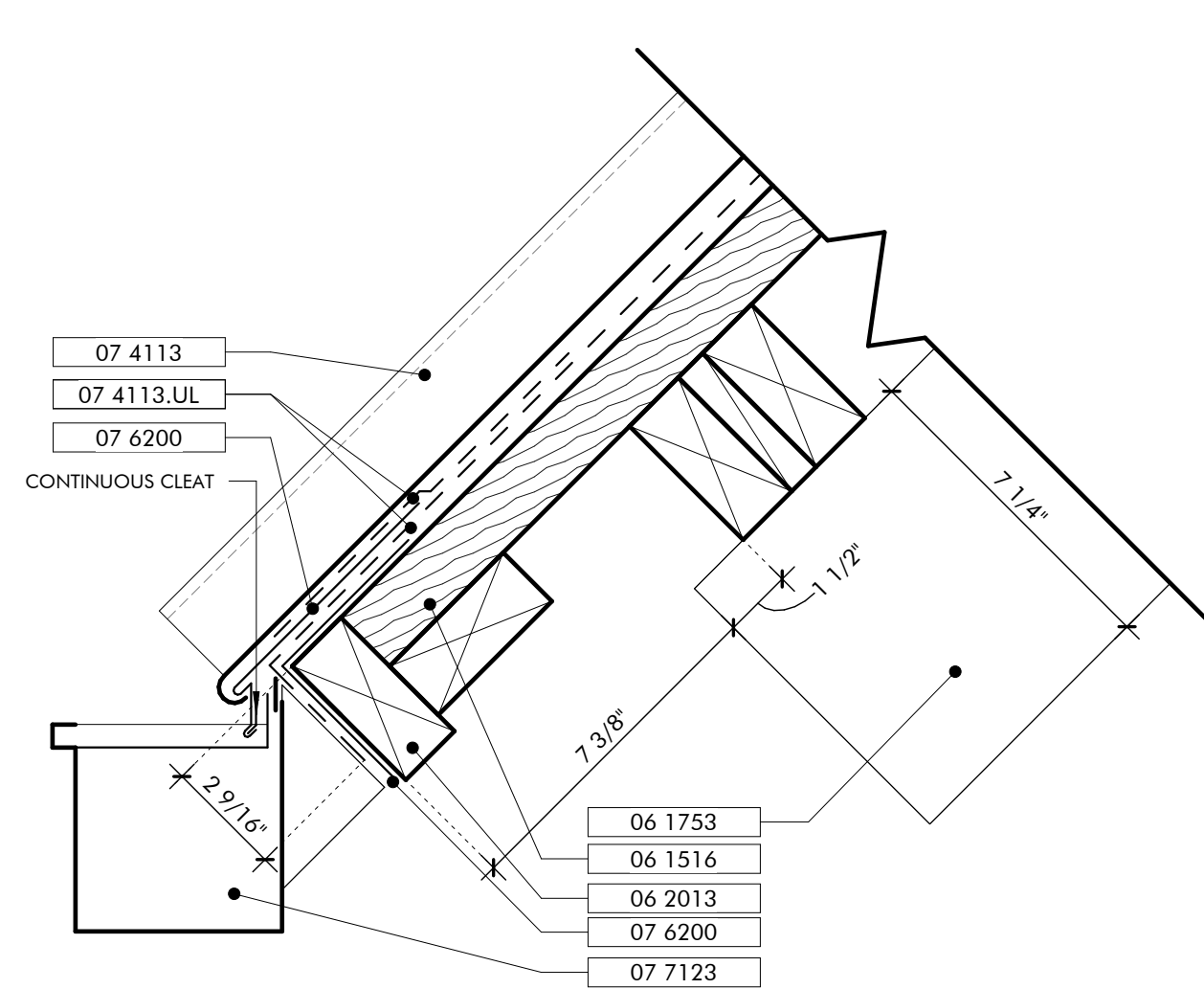
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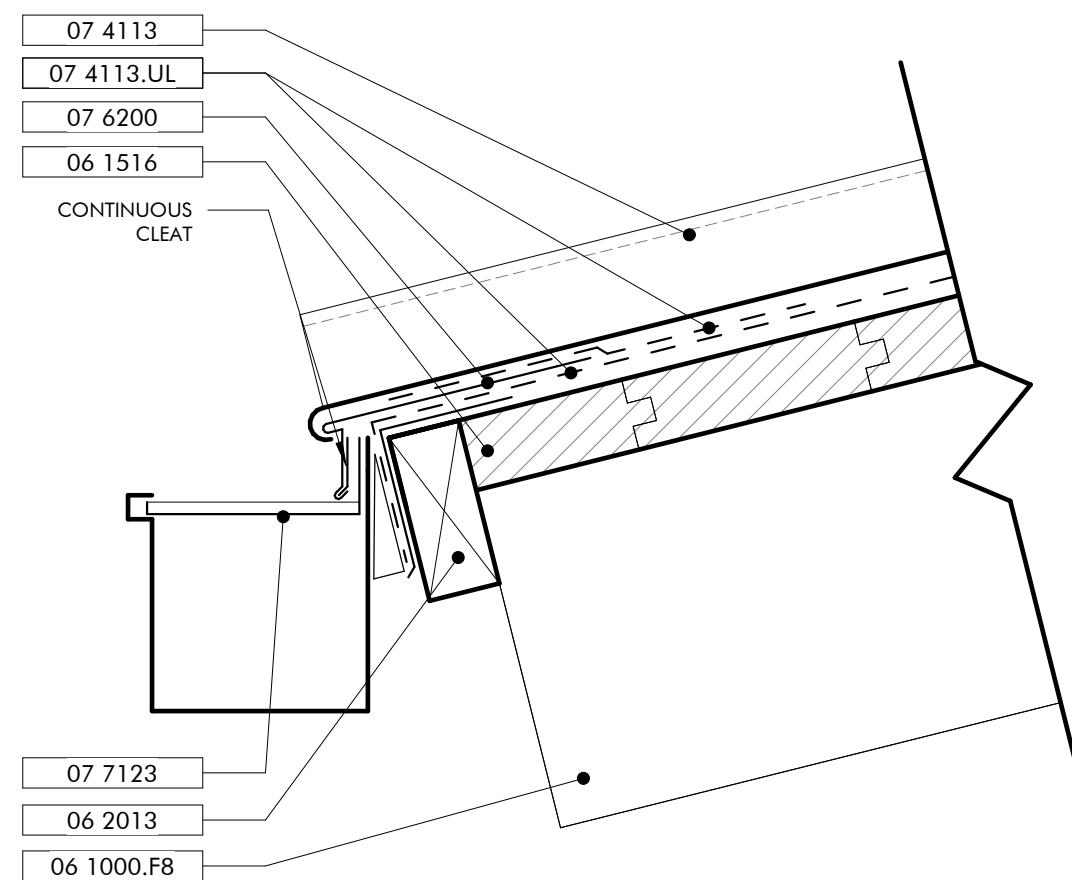
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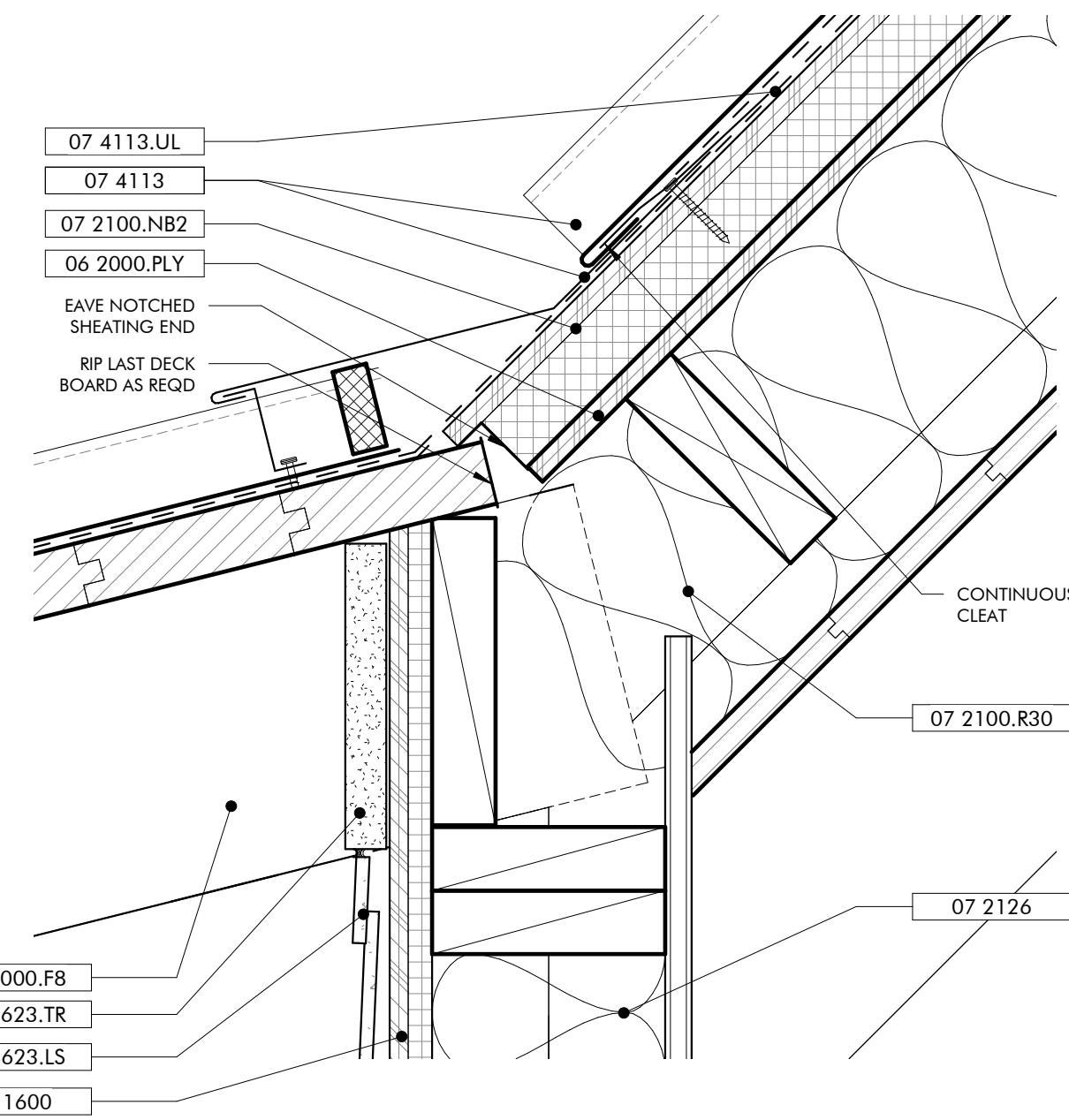
No.	1	DATE	JANUARY 5, 2023
Rev.		BY	SET
Job	19-028.000		
Project Status	CONFORMANCE SET		
Date	MARCH 24, 2023		
Sheet Name	DETAILS - EXTERIOR		
Sheet No.	AW500		



ROOF DETAIL
ENTRY ROOF EAVE & SCREEN
3" = 1'-0"



ROOF DETAIL
TYP PORCH EAVE
3" = 1'-0"



ROOF DETAIL
TYP STOREFRONT OPENING
3" = 1'-0"

- KEYNOTES**
- 06 1000 Rough Carpentry
 - 06 1000.F6 2x6 Framing
 - 06 1000.F8 2x8 Framing
 - 06 1000.6B 6x12 Beam
 - 06 1516 Wood Roof Decking
 - 06 1600 Sheathing
 - 06 1753 Shop-Fabricated Wood Trusses
 - 06 2000.PLY Stained 3/4" Plywood
 - 06 2000.SVT Stained Wood Trim
 - 06 2013 Exterior Finish Carpentry
 - 06 2013.F6 2x6 Wood Boards
 - 07 2100.NB2 2" Nail Base Rigid Insulation Board
 - 07 2100.R30 R-30 Batt Insulation
 - 07 2126 Blown Insulation
 - 07 2500.FAMF Fluid Applied Membrane Flashing
 - 07 4113 Metal Roof Panels
 - 07 4113.UL Roof Underlayment
 - 07 4623.LS Engineered Wood Lap Siding
 - 07 4623.TR Engineered Wood Trim
 - 07 6200 Sheet Metal Flashing and Trim
 - 07 7123 Manufactured Gutters and Downspouts
 - 08 6223 Tubular Skylights

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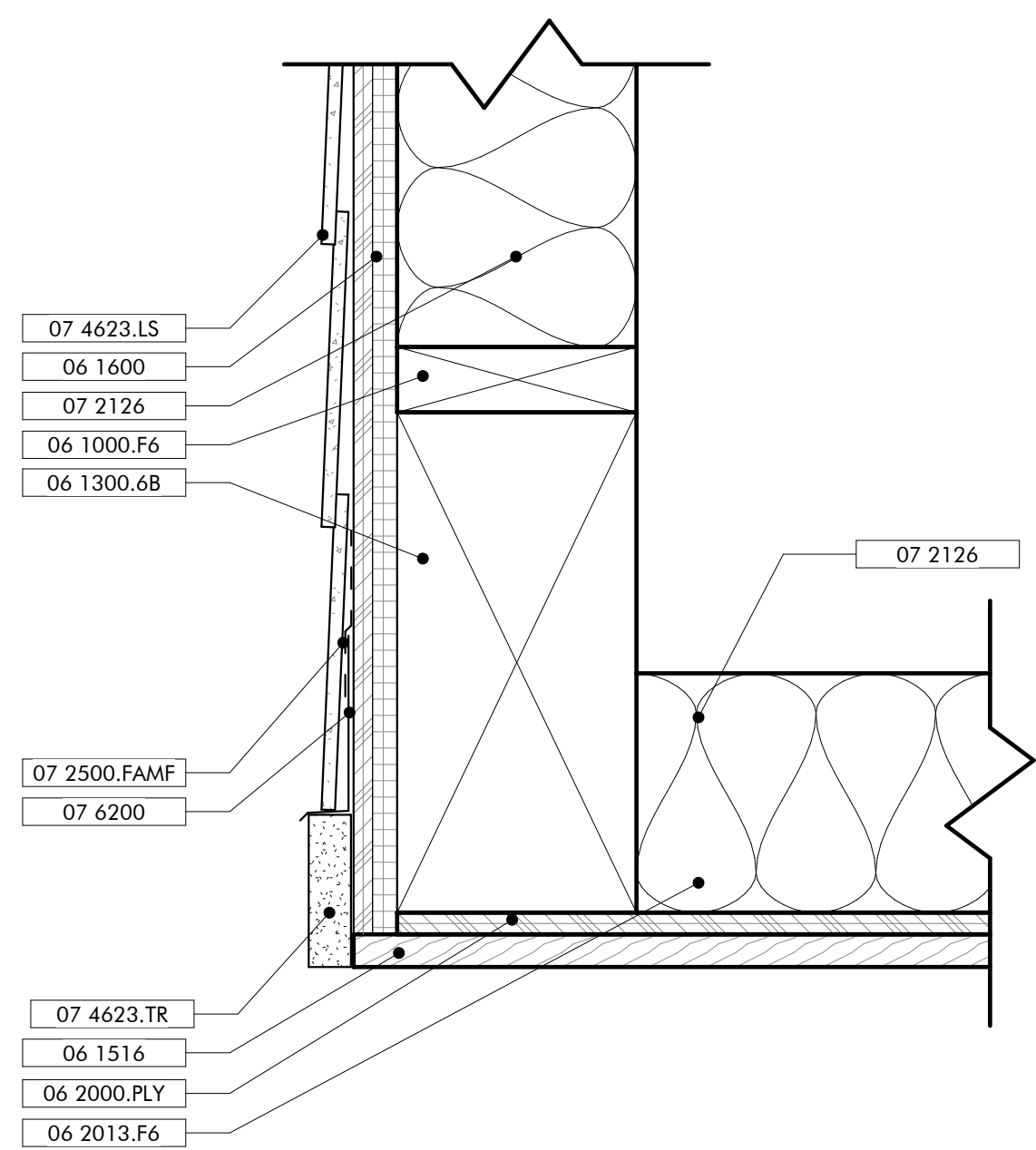
WATERSHED
Building Sustainability

302 Magnolia Avenue
Fairhope, AL 36532
p 251.929.0514

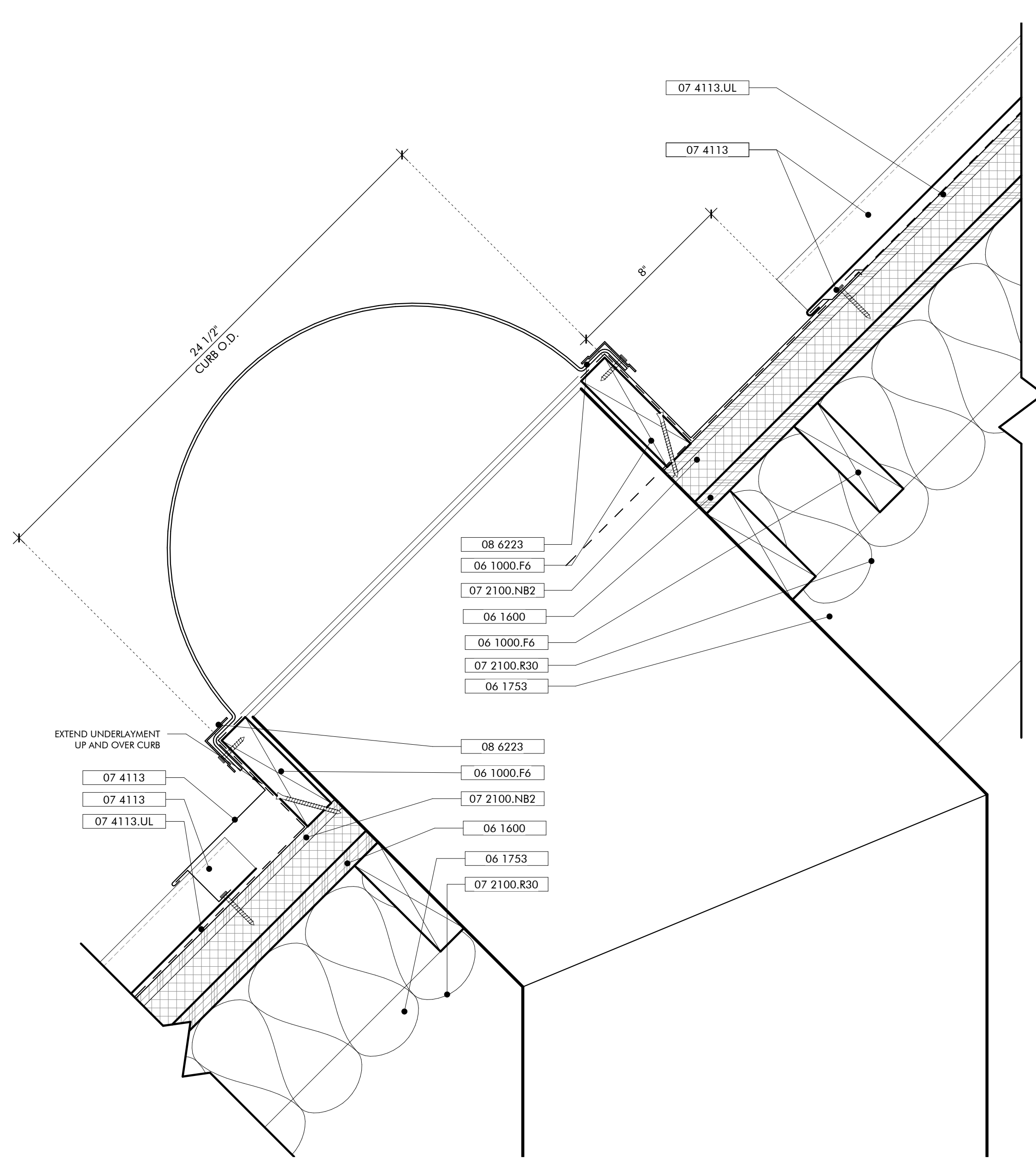
GULF COAST CENTER
FOR ECOTOURISM & SUSTAINABILITY
SITE & CIVIL PACKAGE
GULF SHORES, ALABAMA

GENERAL NOTES

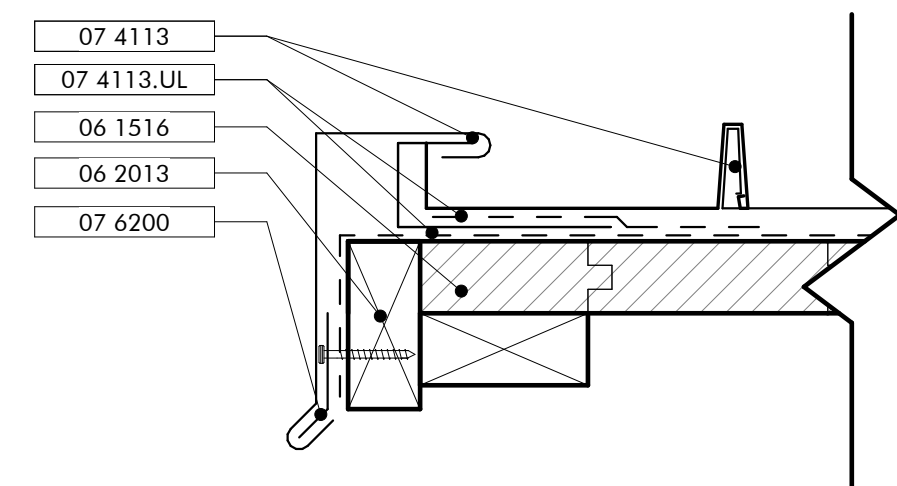
SHEET SPECIFIC NOTES



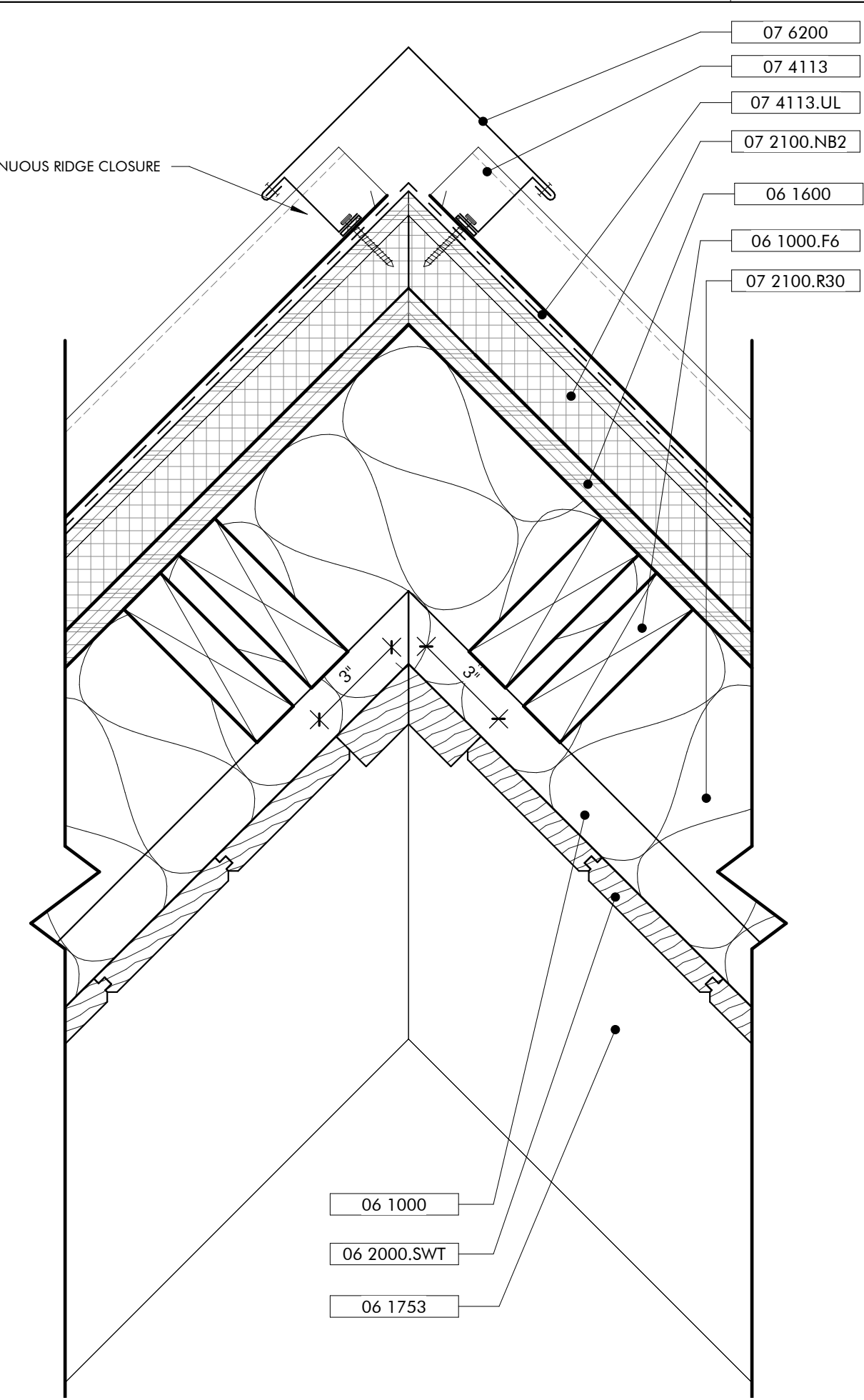
SECTION DETAIL
BREEZEWAY SOFFIT
3" = 1'-0"



ROOF DETAIL
TUBULAR SKYLIGHT
3" = 1'-0"



ROOF DETAIL
ENTRY ROOF GABLE END
3" = 1'-0"

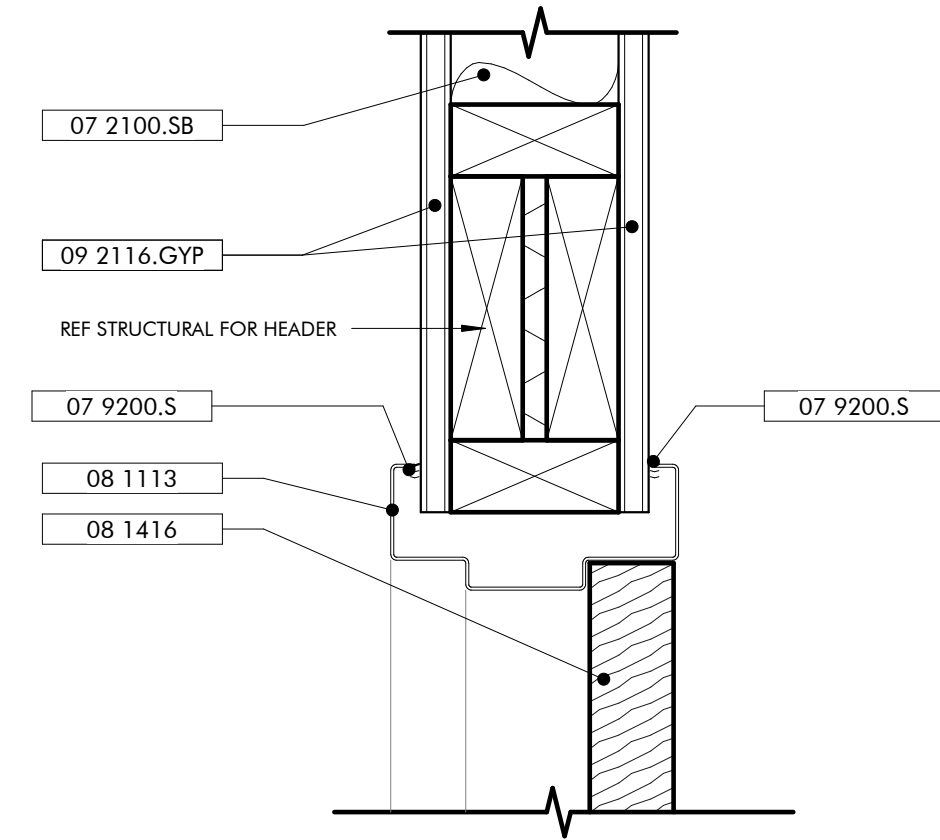


ROOF DETAIL
WELCOME HUB - MEETING SPACE
3" = 1'-0"

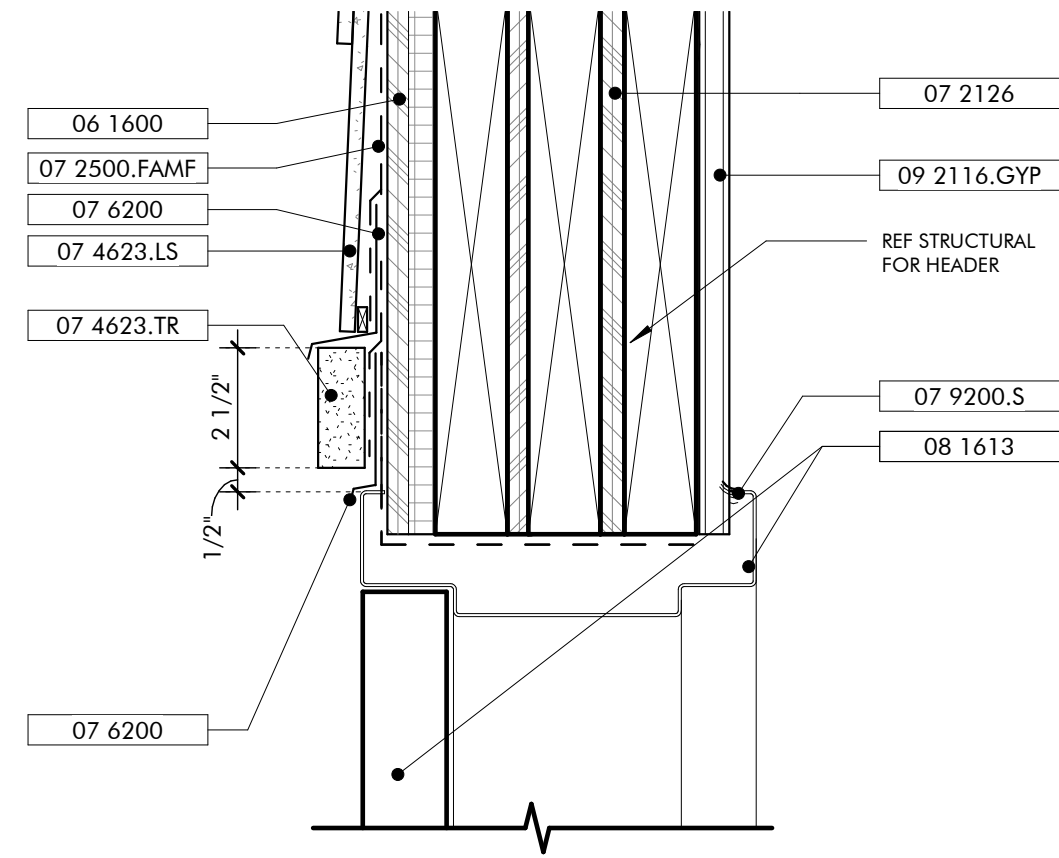
Skylight Diffuser?

No.	Date	Revision
1	JANUARY 2, 2023	PRO SET
JOB		
19-028.000		
PROJECT STATUS		
CONFORMANCE SET		
DATE		
MARCH 24, 2023		
SHEET NAME		
DETAILS - EXTERIOR		
SHEET NO.		

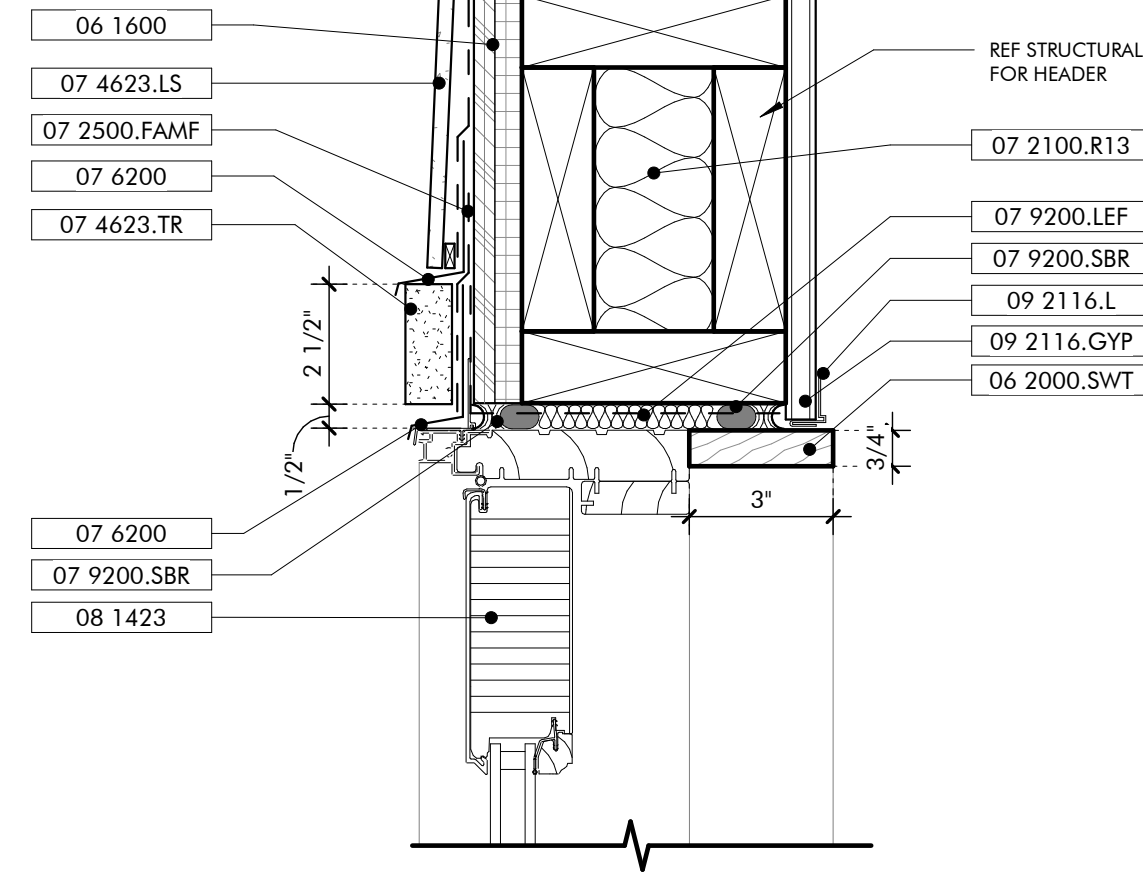
AW501



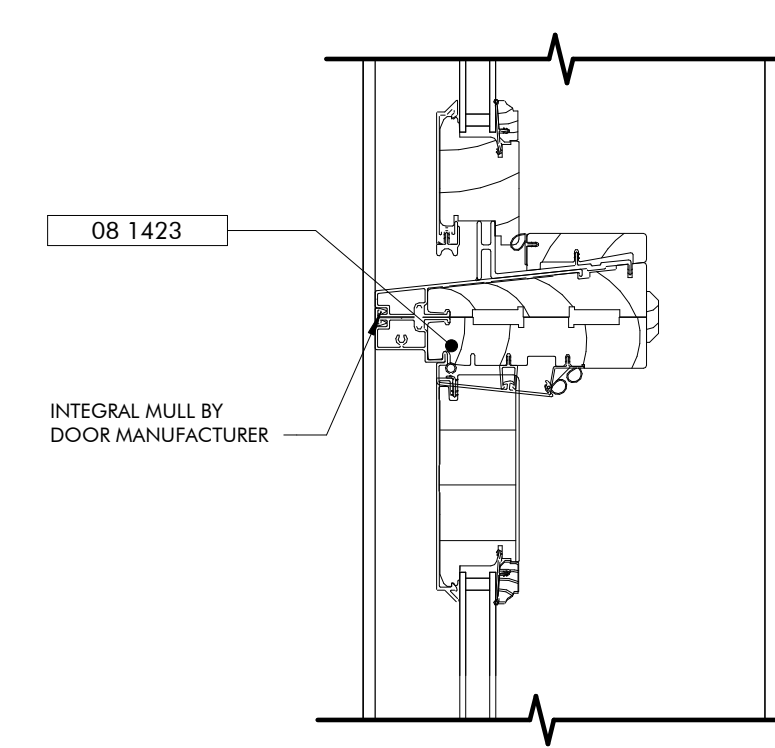
HEAD DETAIL
INT WOOD DOOR **12**
3" = 1'-0"



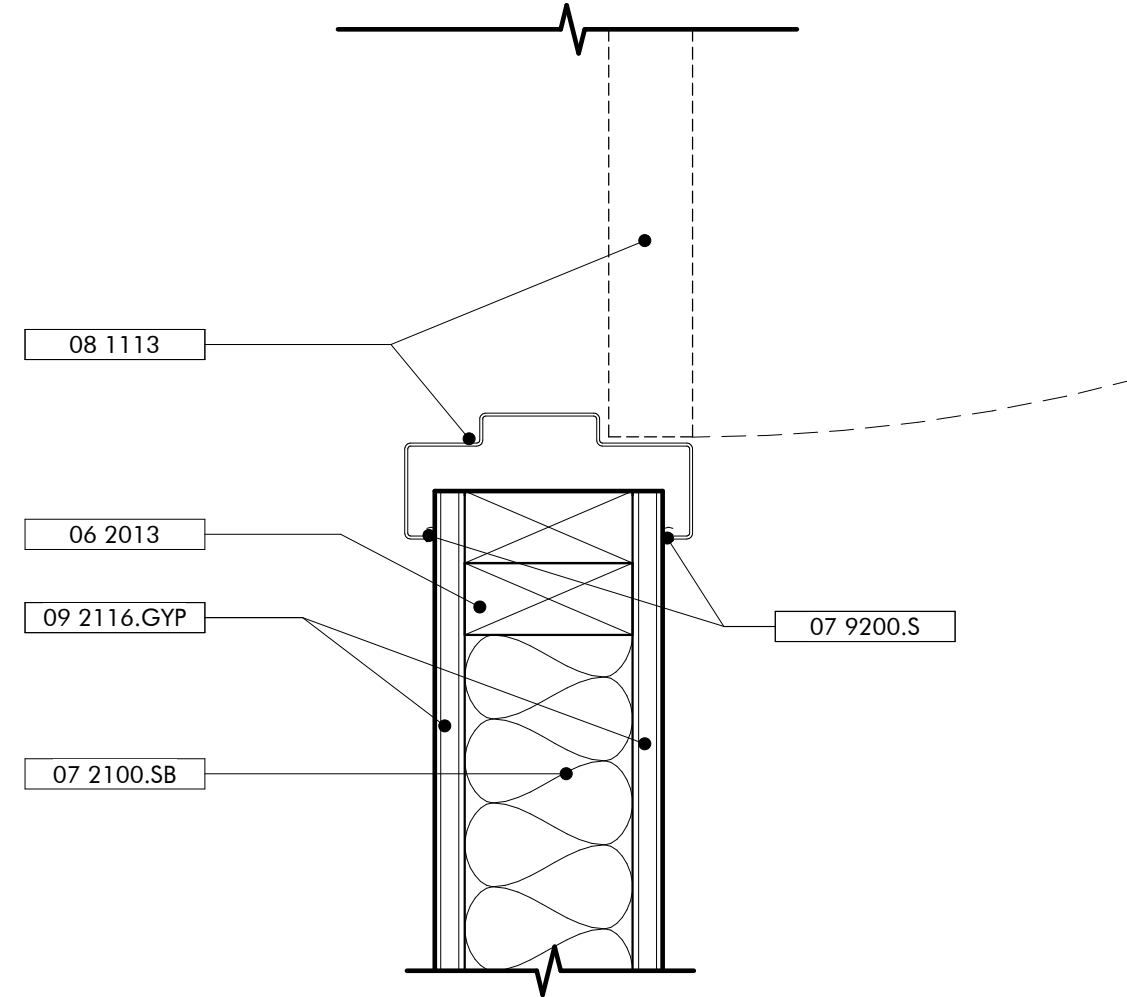
HEAD DETAIL
EXT FIBERGLASS DOOR **9**
3" = 1'-0"



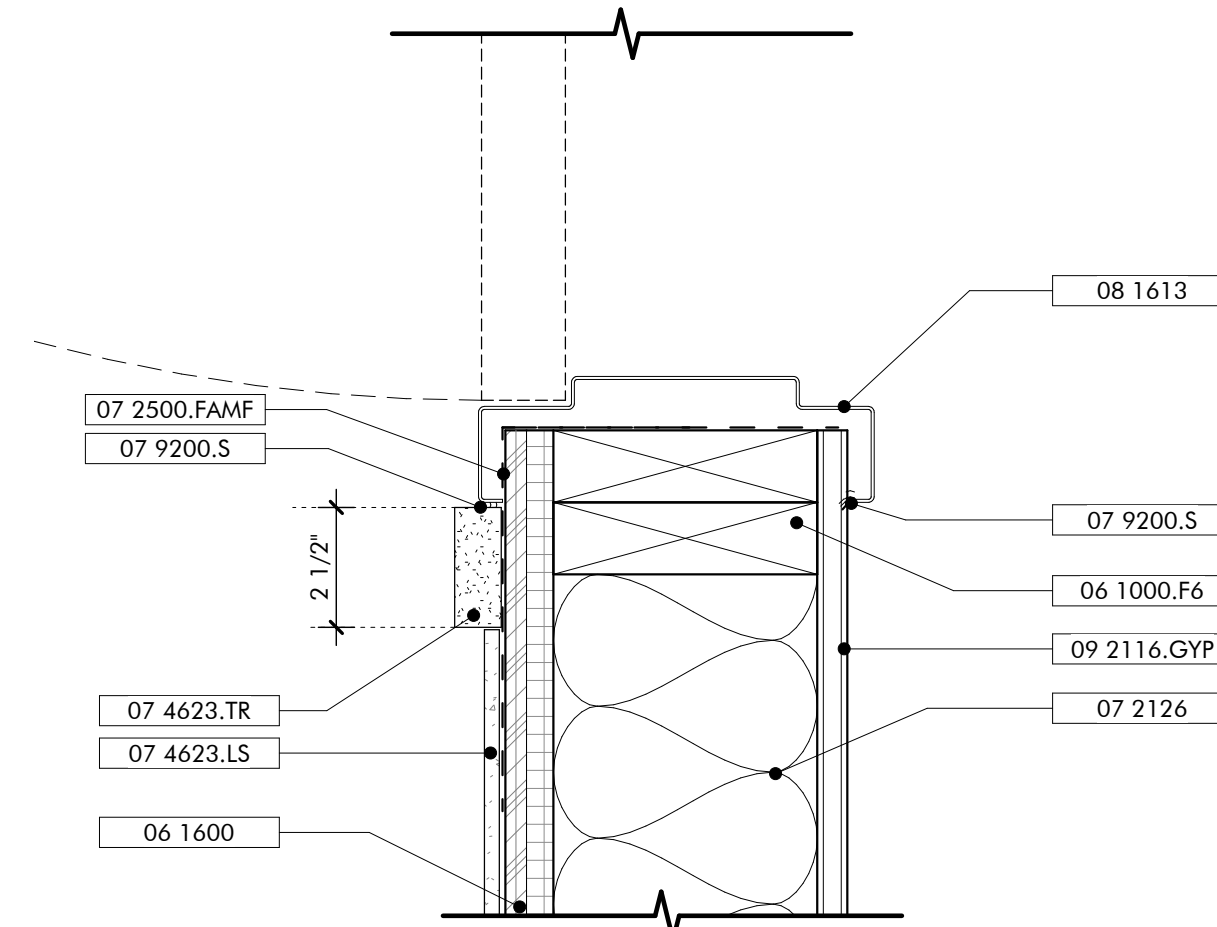
HEAD DETAIL
CLAD WOOD DOOR **6**
3" = 1'-0"



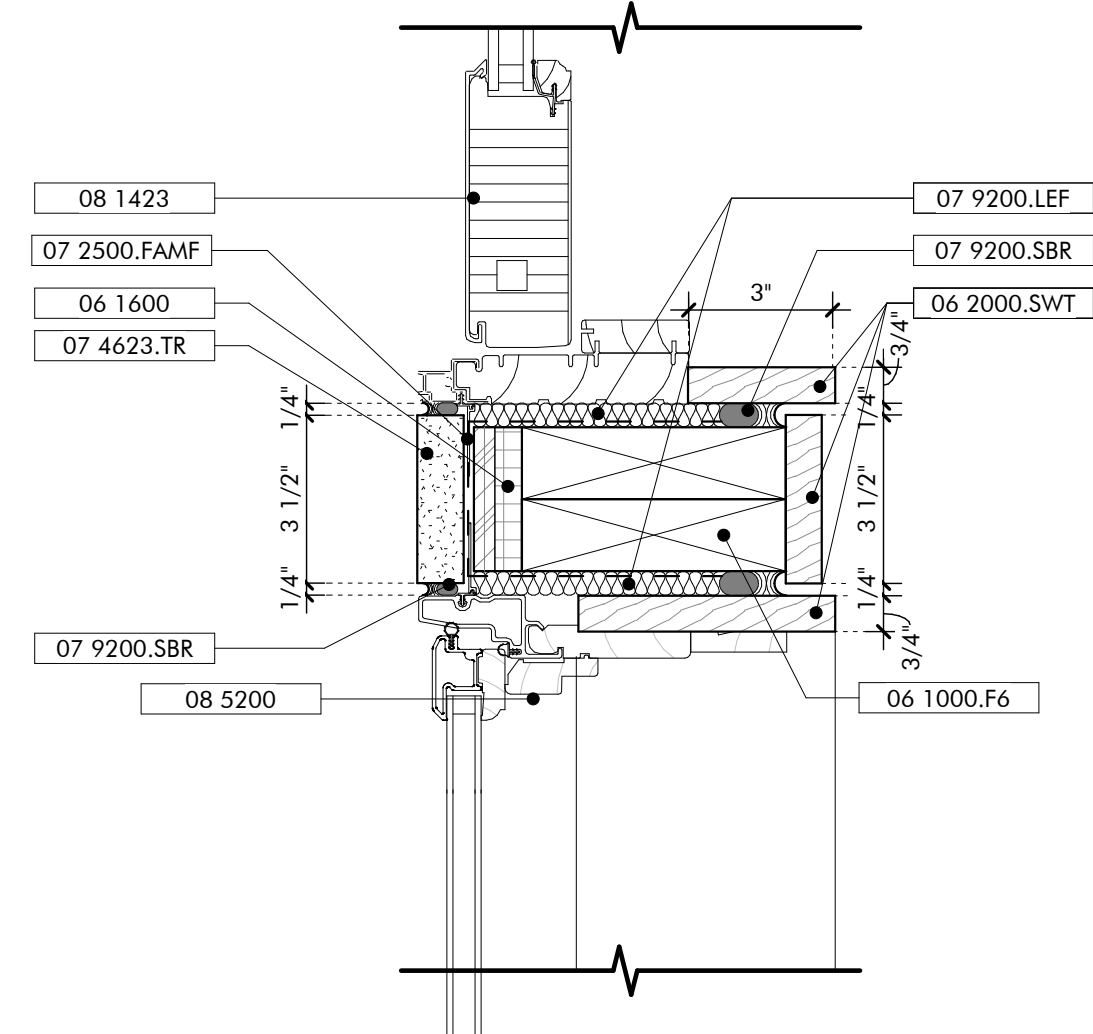
HEAD DETAIL
CLAD WOOD DOOR AT TRANSOM **3**
3" = 1'-0"



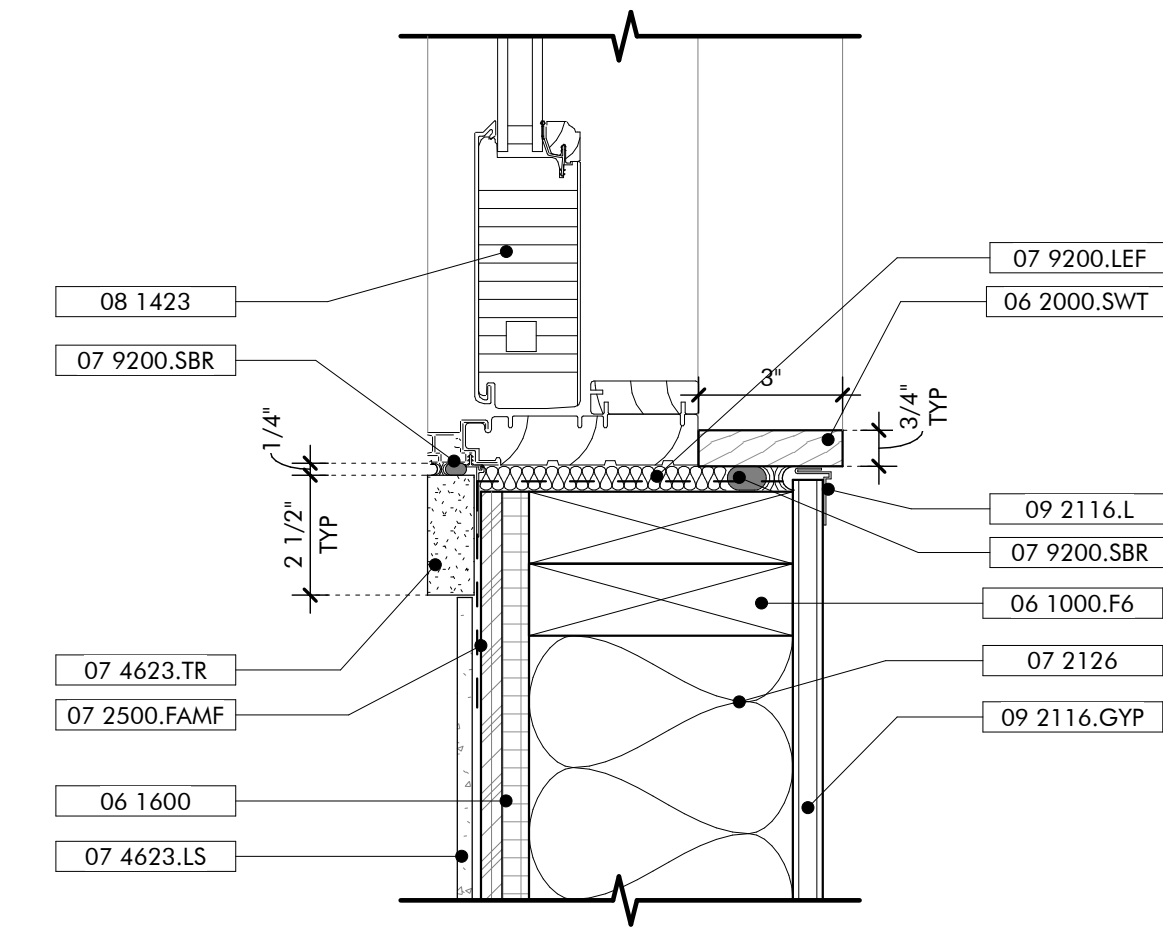
JAMB DETAIL
INT WOOD DOOR **11**
3" = 1'-0"



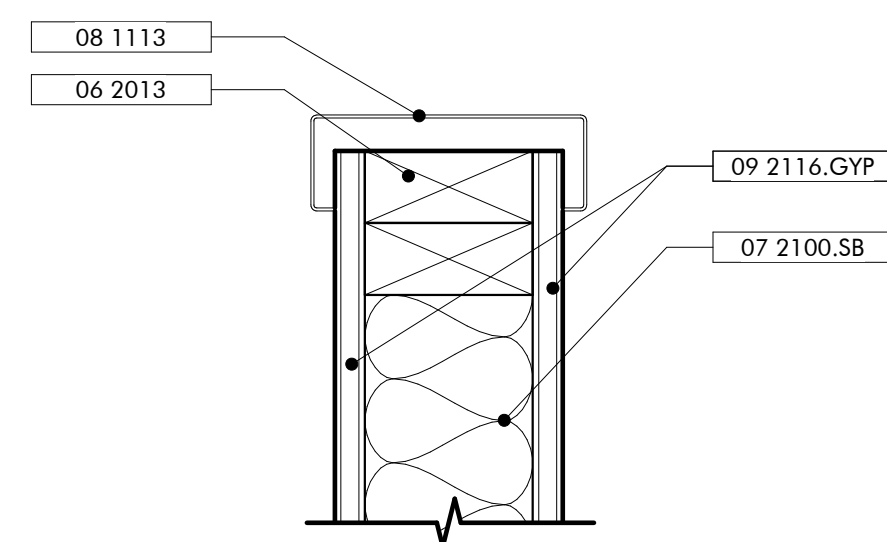
JAMB DETAIL
EXT FIBERGLASS DOOR **8**
3" = 1'-0"



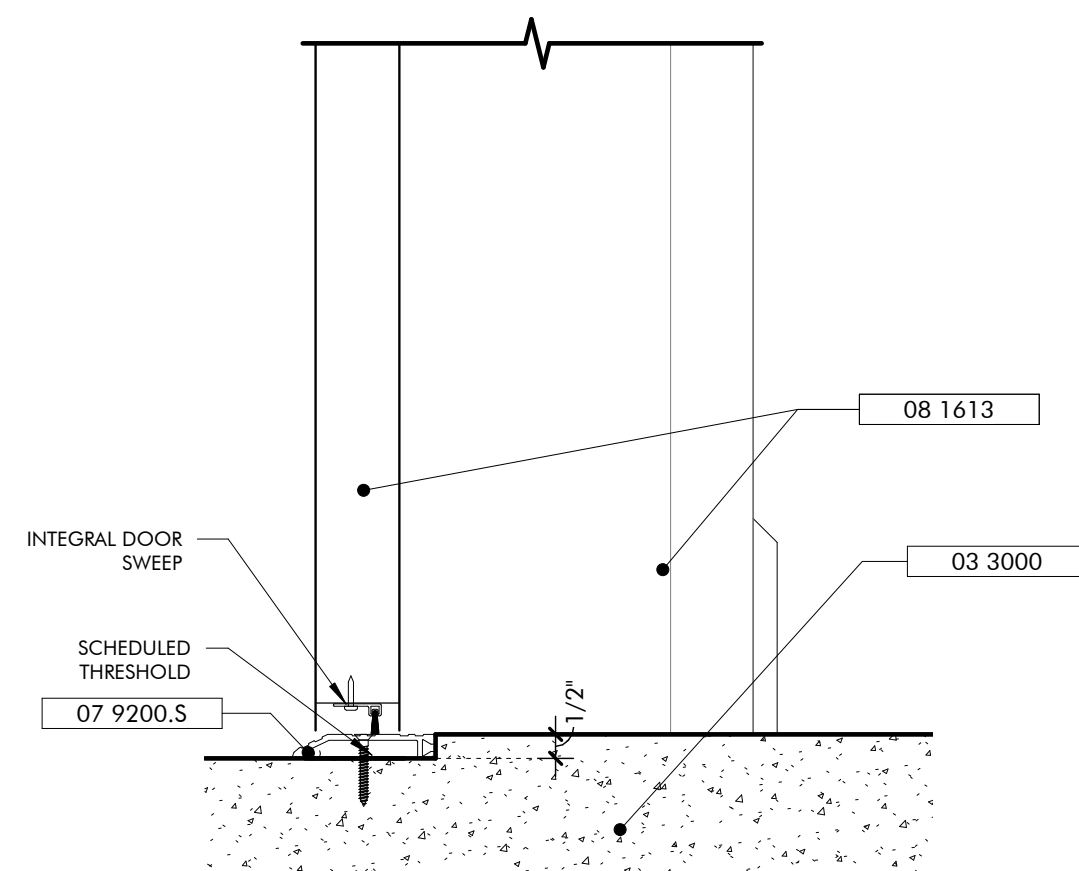
JAMB DETAIL
CLAD WOOD DOOR AT SIDELIGHT MULL **5**
3" = 1'-0"



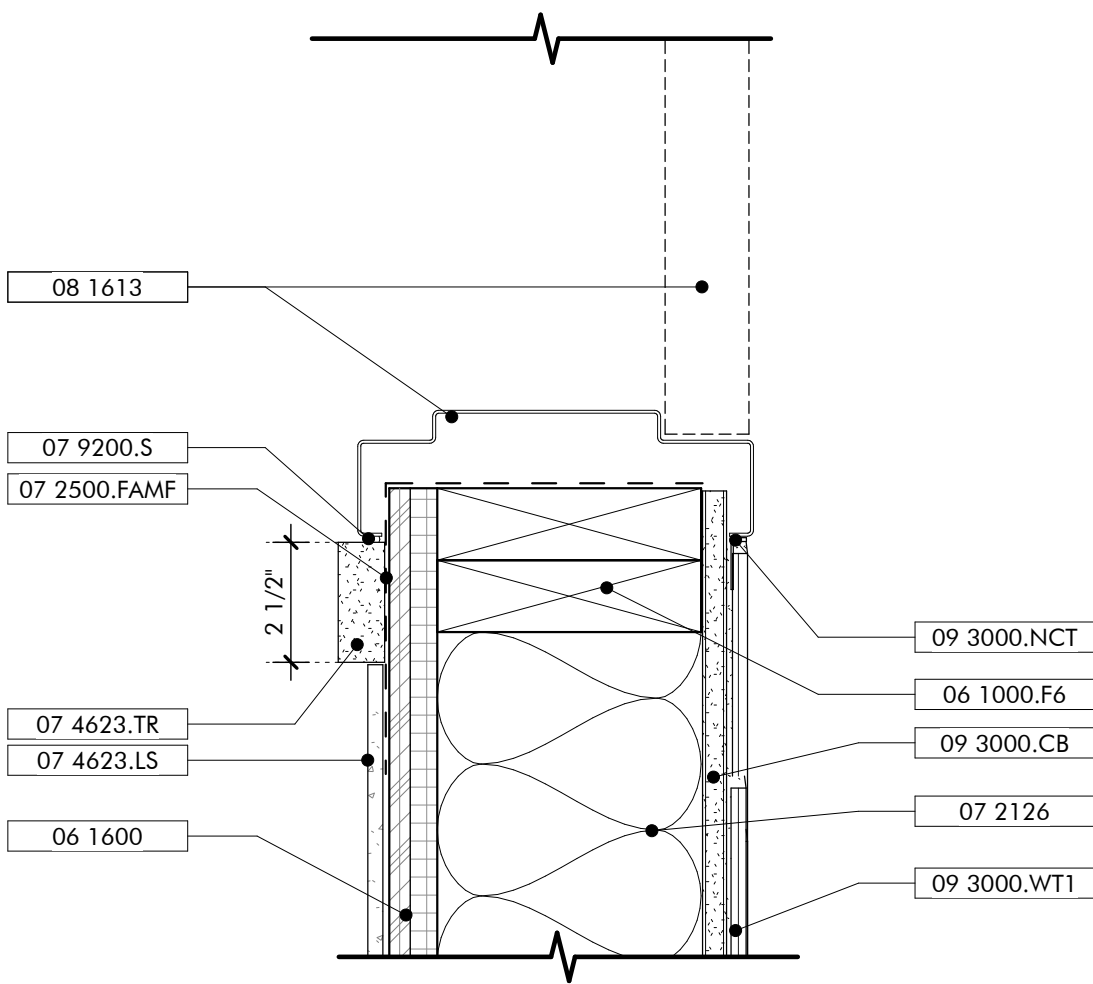
JAMB DETAIL
CLAD WOOD DOOR **2**
3" = 1'-0"



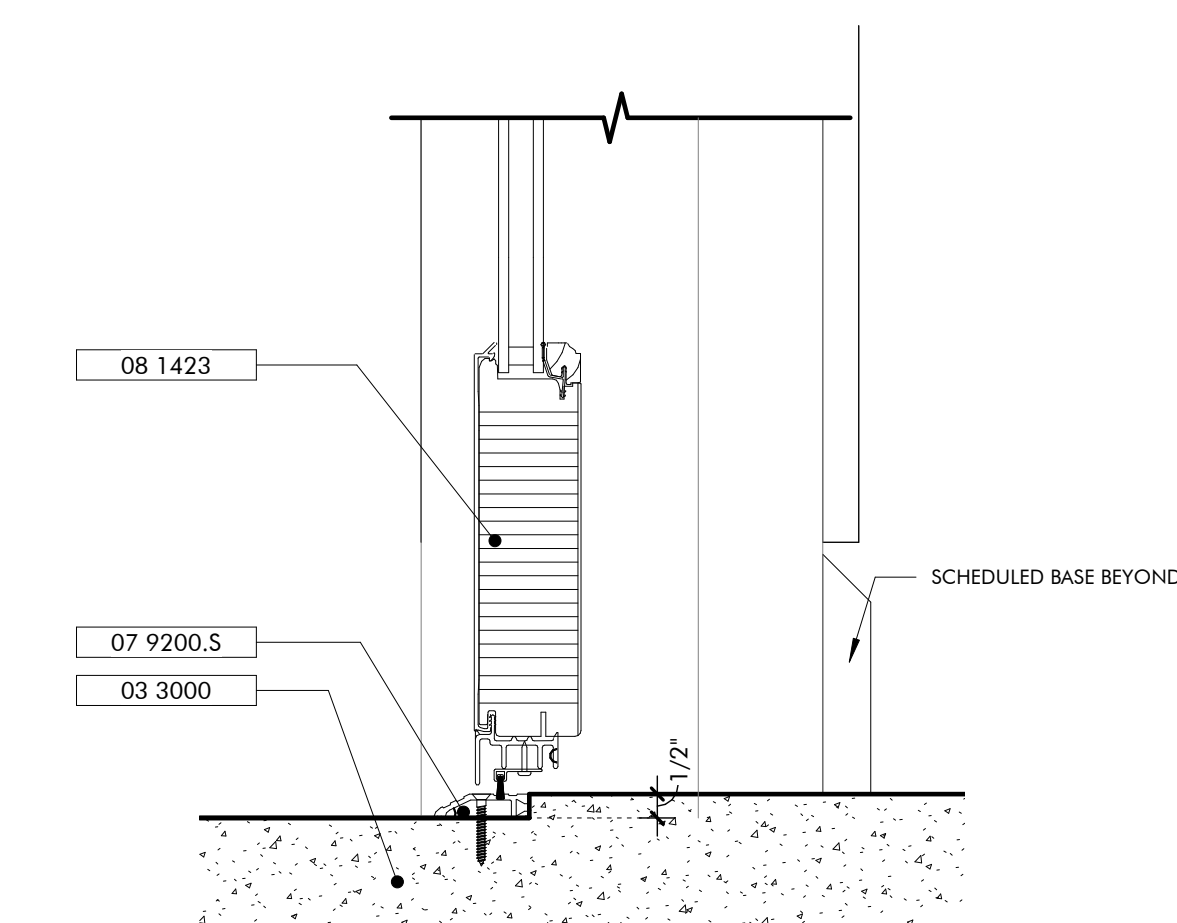
JAMB DETAIL
HOLLOW METAL CASED OPENING **10**
3" = 1'-0"



SILL DETAIL
EXT FIBERGLASS DOOR **7**
3" = 1'-0"



JAMB DETAIL
EXT FIBERGLASS DOOR @ RESTROOMS **4**
3" = 1'-0"



DOOR DETAIL
CLAD WOOD DOOR **1**
3" = 1'-0"

KEYNOTES

- 03 3000 Cast-in-Place Concrete - See Structural for reinforcement
- 06 1000.F6 2x6 Framing
- 06 1600 Sheathing
- 06 2000.SWT Stained Wood Trim
- 06 2013 Exterior Finish Carpentry
- 07 2100.R13 R-13 Batt Insulation
- 07 2100.SB Sound Batt
- 07 2126 Blown Insulation
- 07 2500.FAMF Fluid Applied Membrane Flashing
- 07 4623.LS Engineered Wood Lap Siding
- 07 4623.TR Engineered Wood Trim
- 07 6200 Sheet Metal Flashing and Trim
- 07 9200.LEF Low Expansion Foam Sealant
- 07 9200.S Sealant
- 07 9200.SBR Sealant and Backer Rod
- 08 1113 Hollow Metal Doors and Frames
- 08 1416 Flush Wood Doors
- 08 1423 Clad Wood Doors
- 08 1613 Fiberglass Doors
- 08 5200 Wood Windows
- 09 2116.GYP 1/2" Gypsum Wallboard
- 09 2116.L L Bead Accessory
- 09 3000.CB Cement Board
- 09 3000.NCT Non-Ceramic Trim
- 09 3000.WT1 Porcelain Wall Tile & Grout

GENERAL NOTES

SHEET SPECIFIC NOTES



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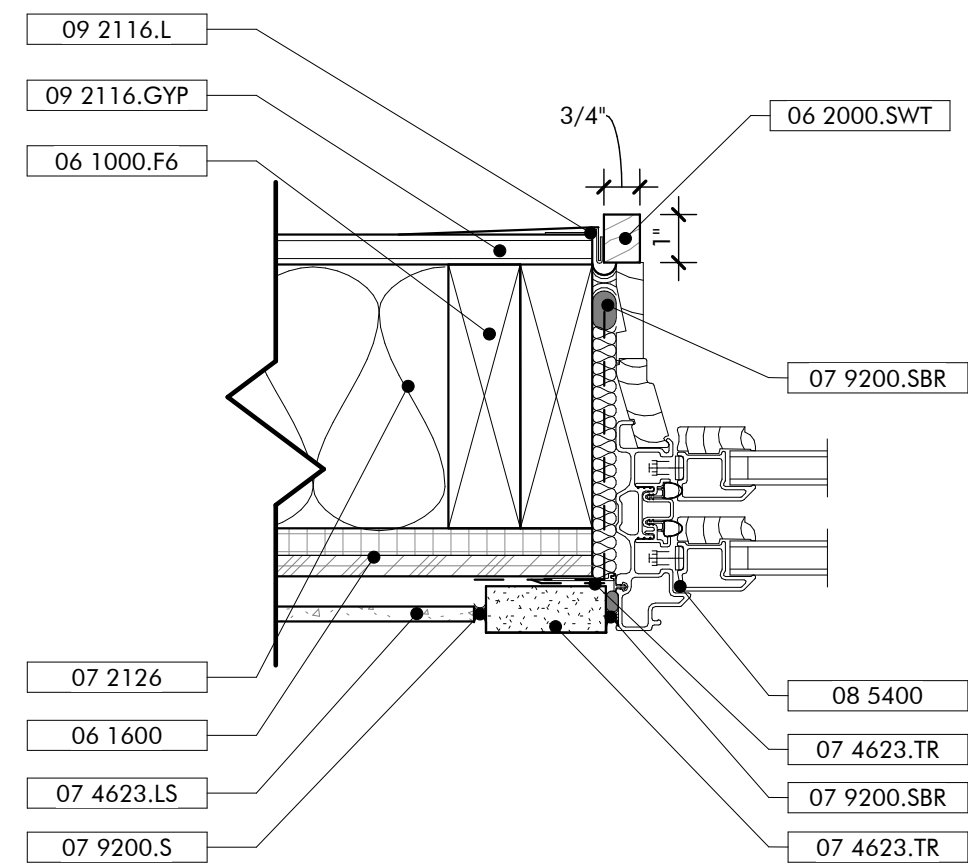
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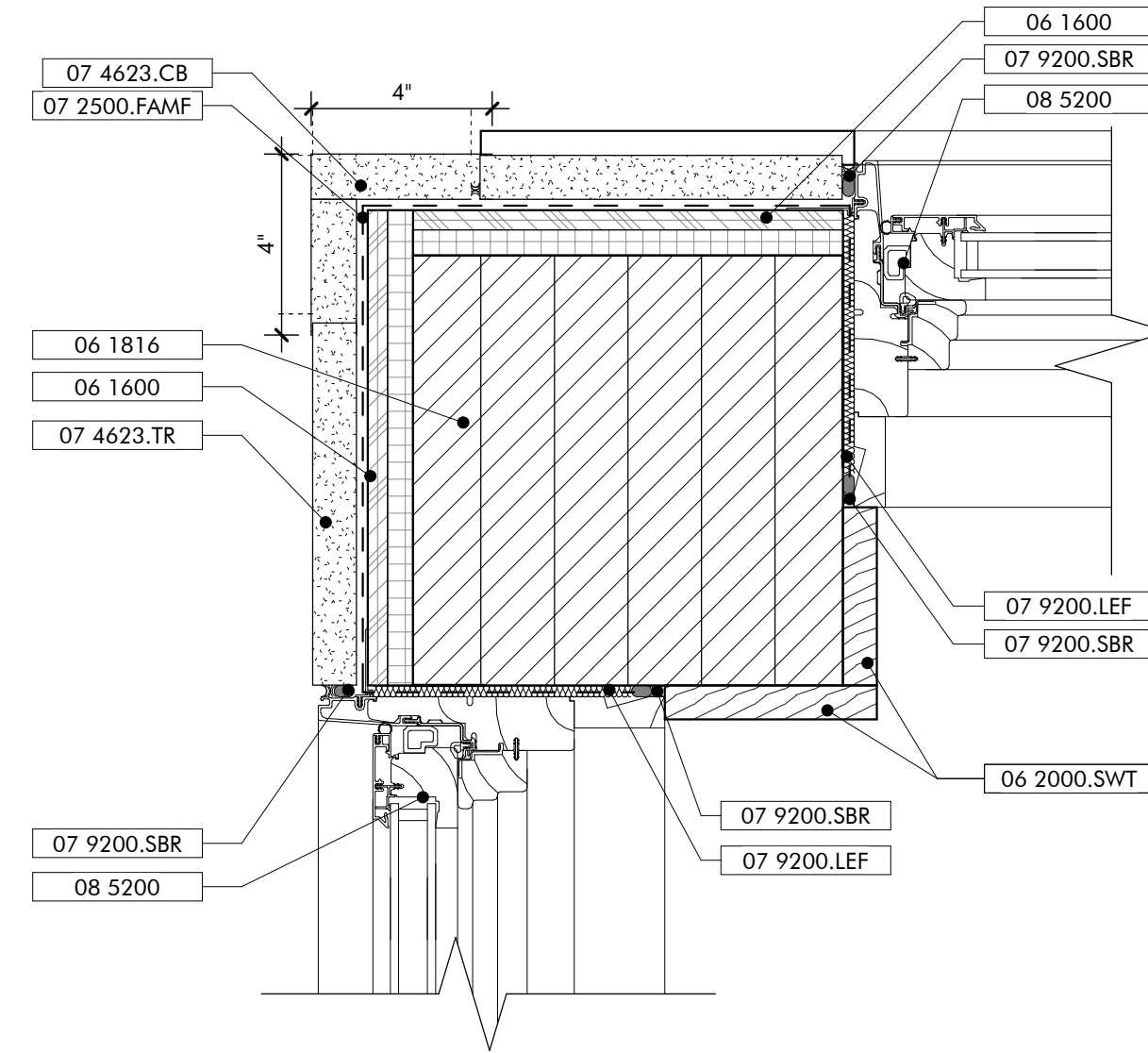
GULF COAST CENTER
FOR ECOTOURISM & SUSTAINABILITY
WELCOME HUB PACKAGE
GULF SHORES, ALABAMA

No.	2
Date	JANUARY 6, 2023
Revision	
Initials	
JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	DETAILS - DOORS
SHEET NO.	

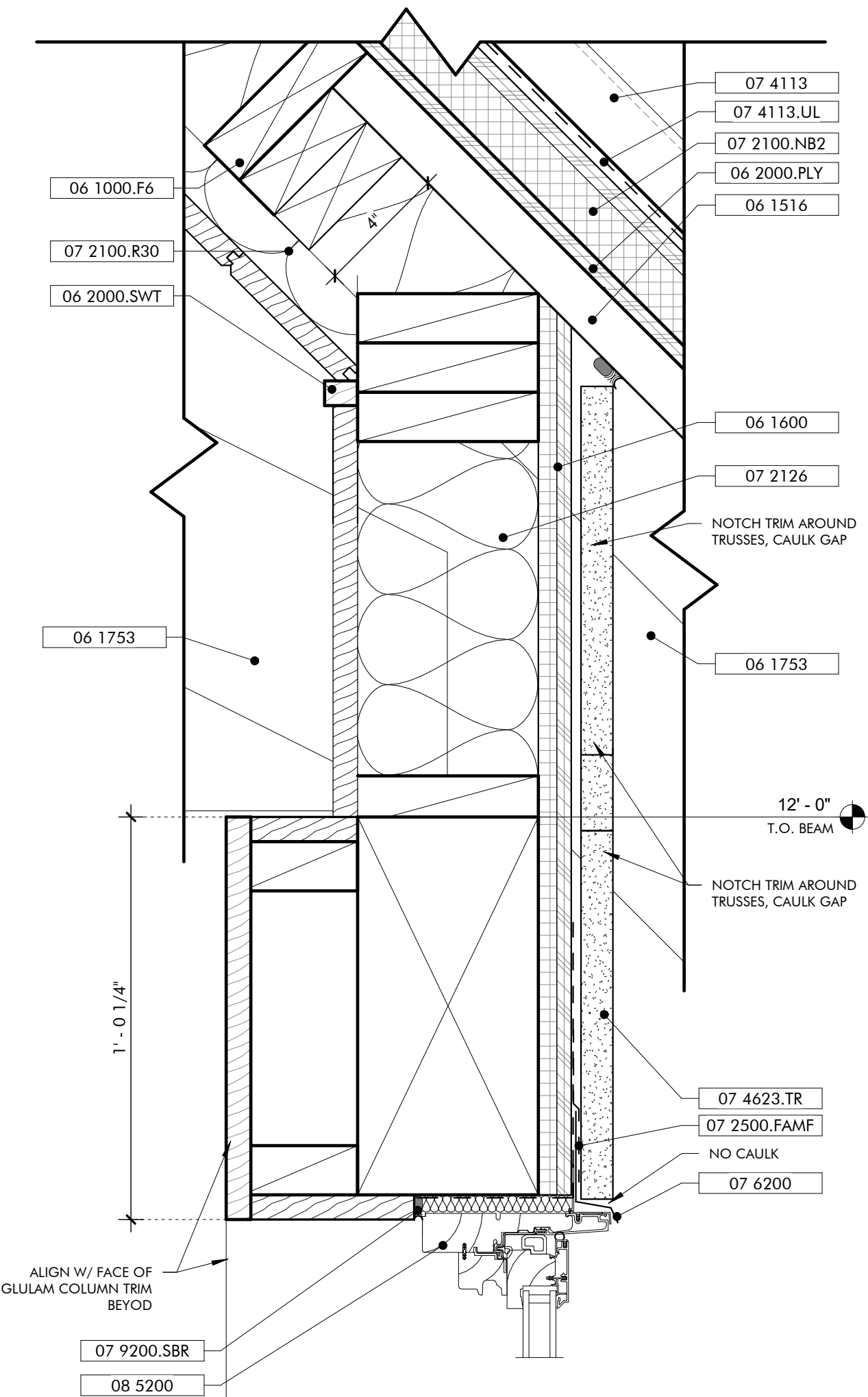
AW510



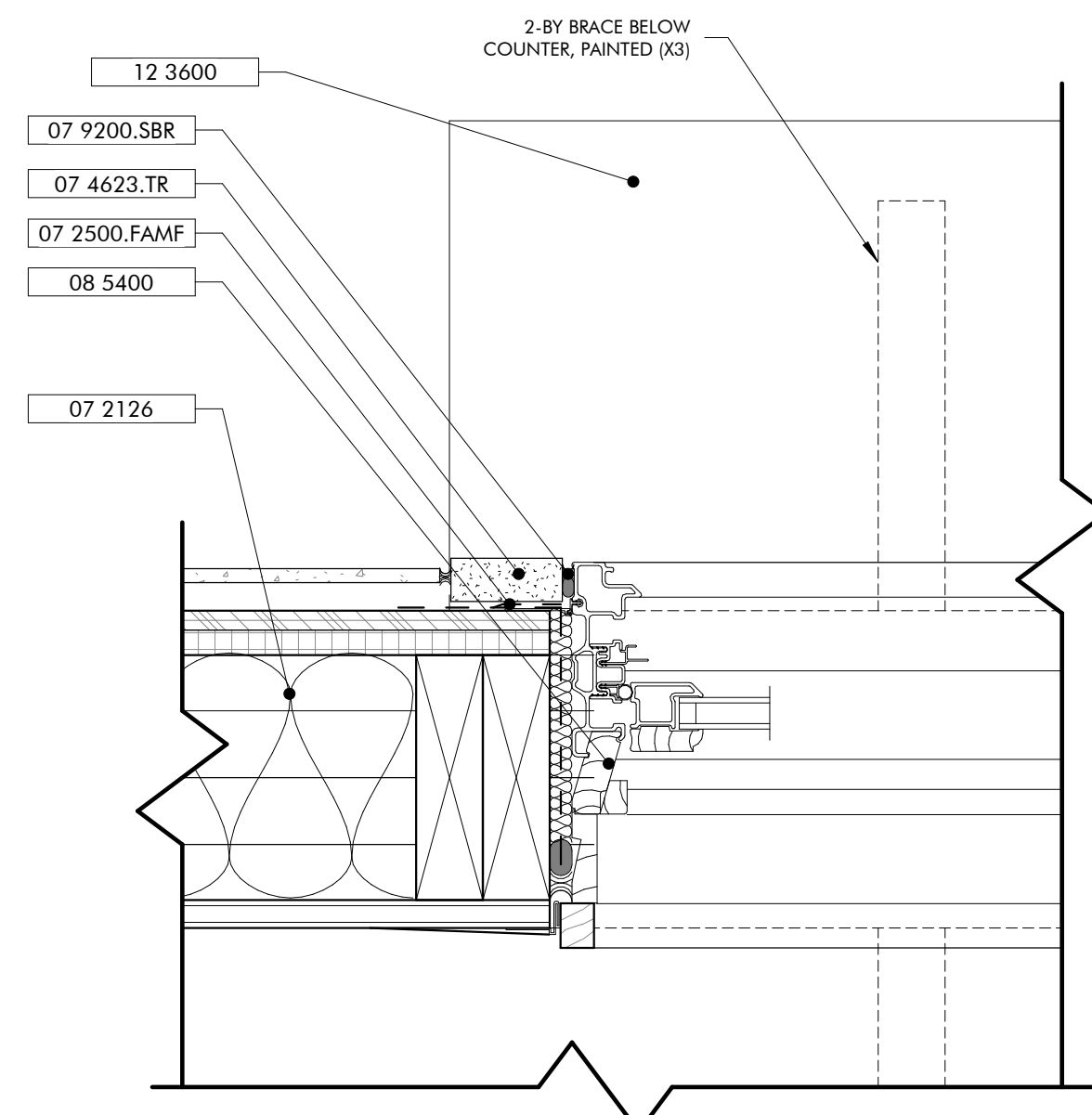
JAMB DETAIL
TYP WINDOW AT GYP WALL
12
3" = 1'-0"



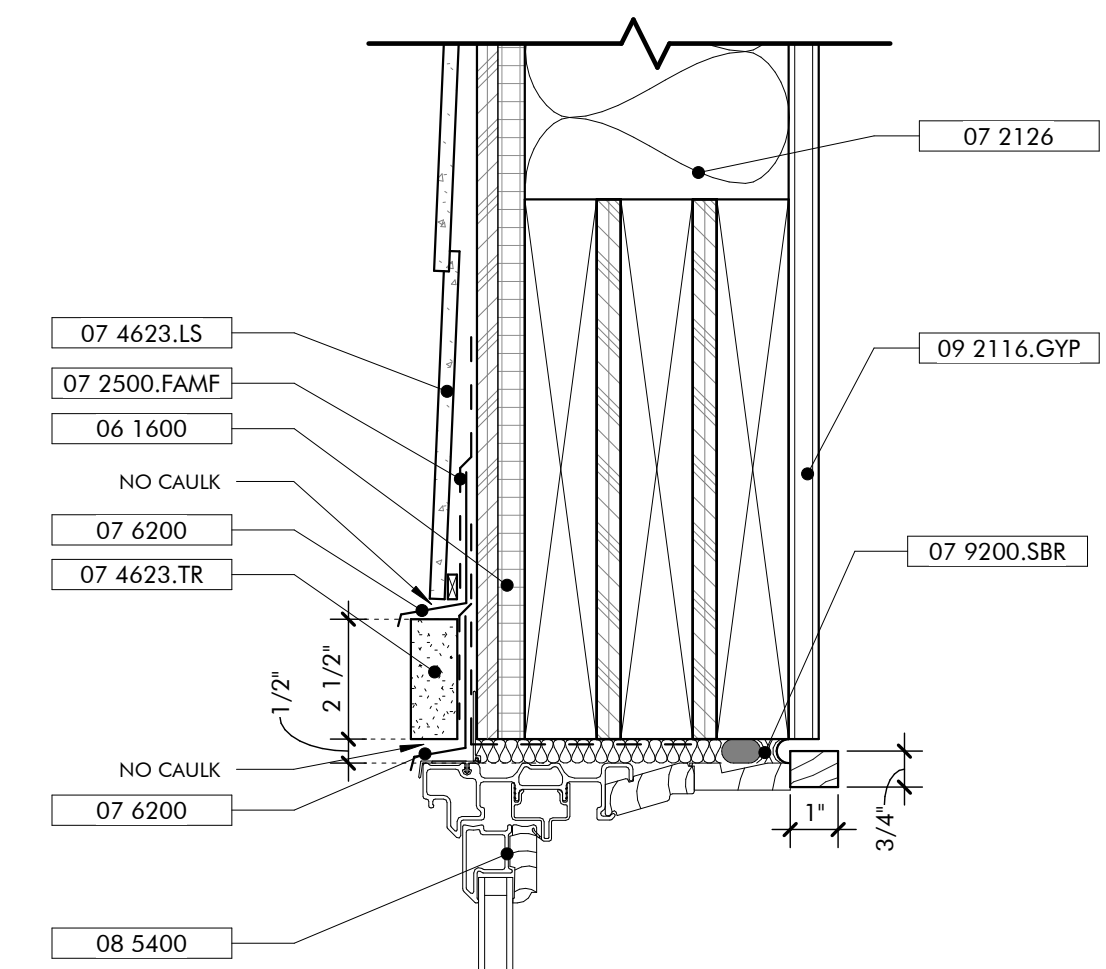
JAMB DETAIL
MEETING SPACE CORNER
6
3" = 1'-0"



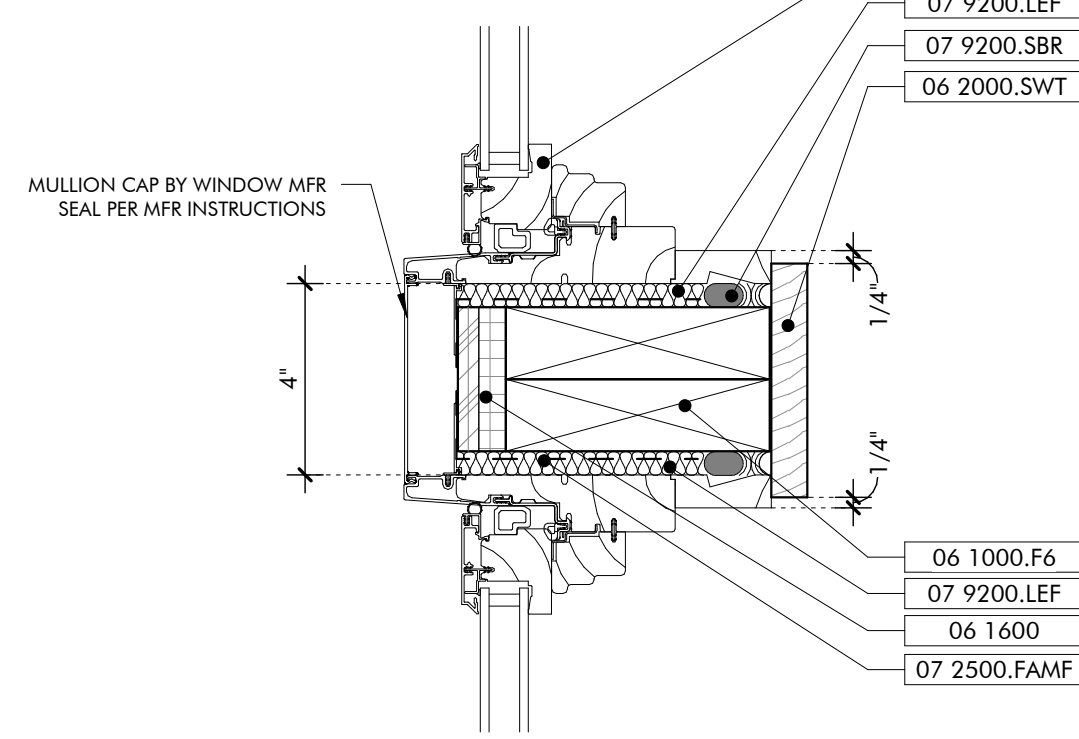
HEAD DETAIL
MEETING SPACE
3
3" = 1'-0"



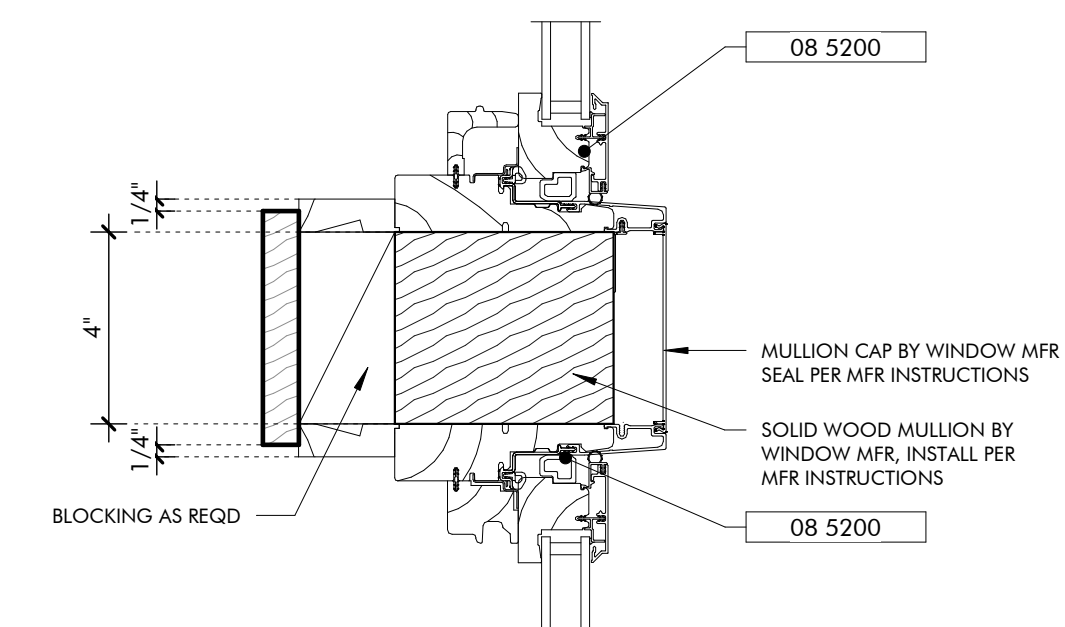
JAMB DETAIL
AT CAMP STORE COUNTER
11
3" = 1'-0"



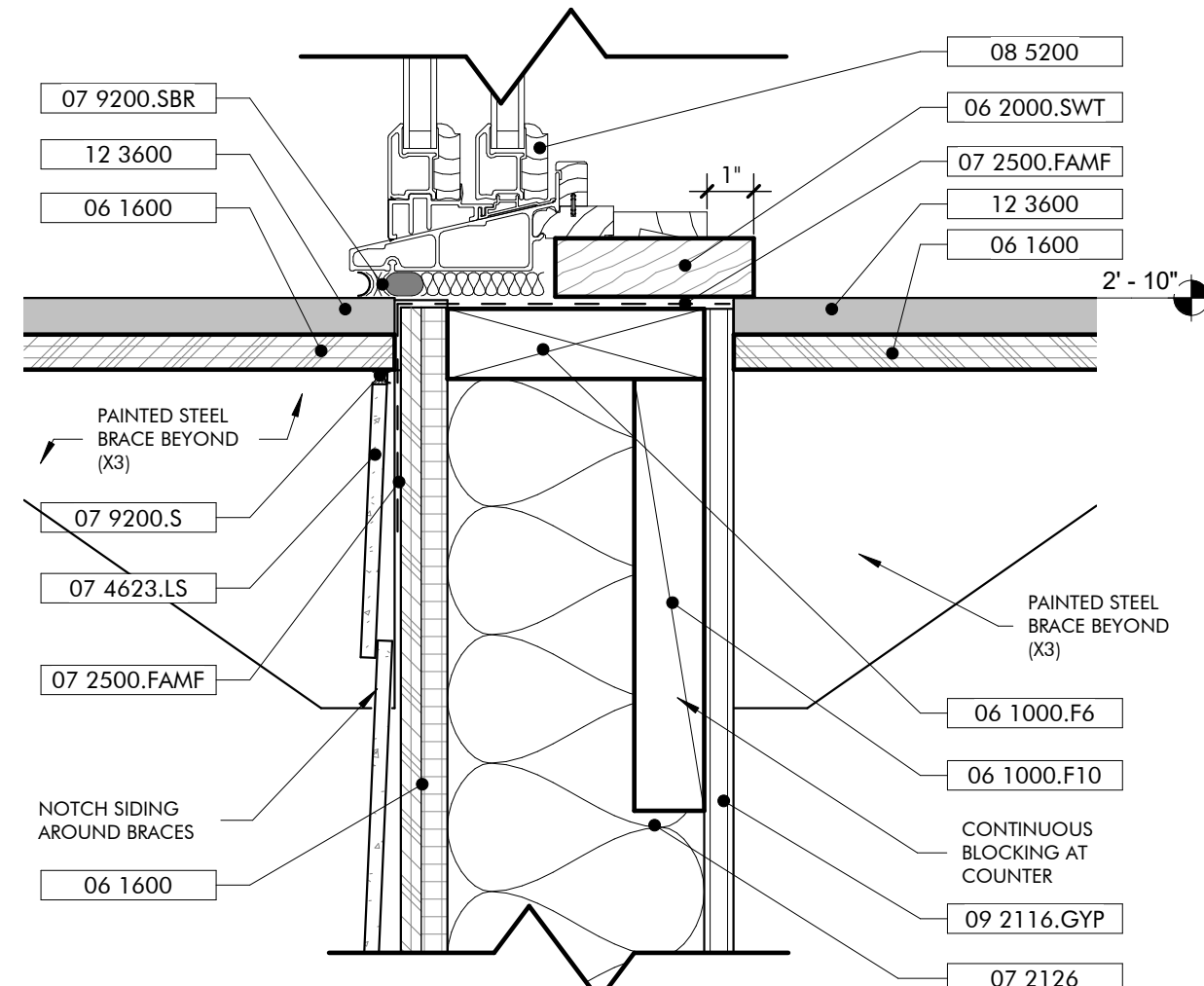
HEAD DETAIL
TYP WINDOW
9
3" = 1'-0"



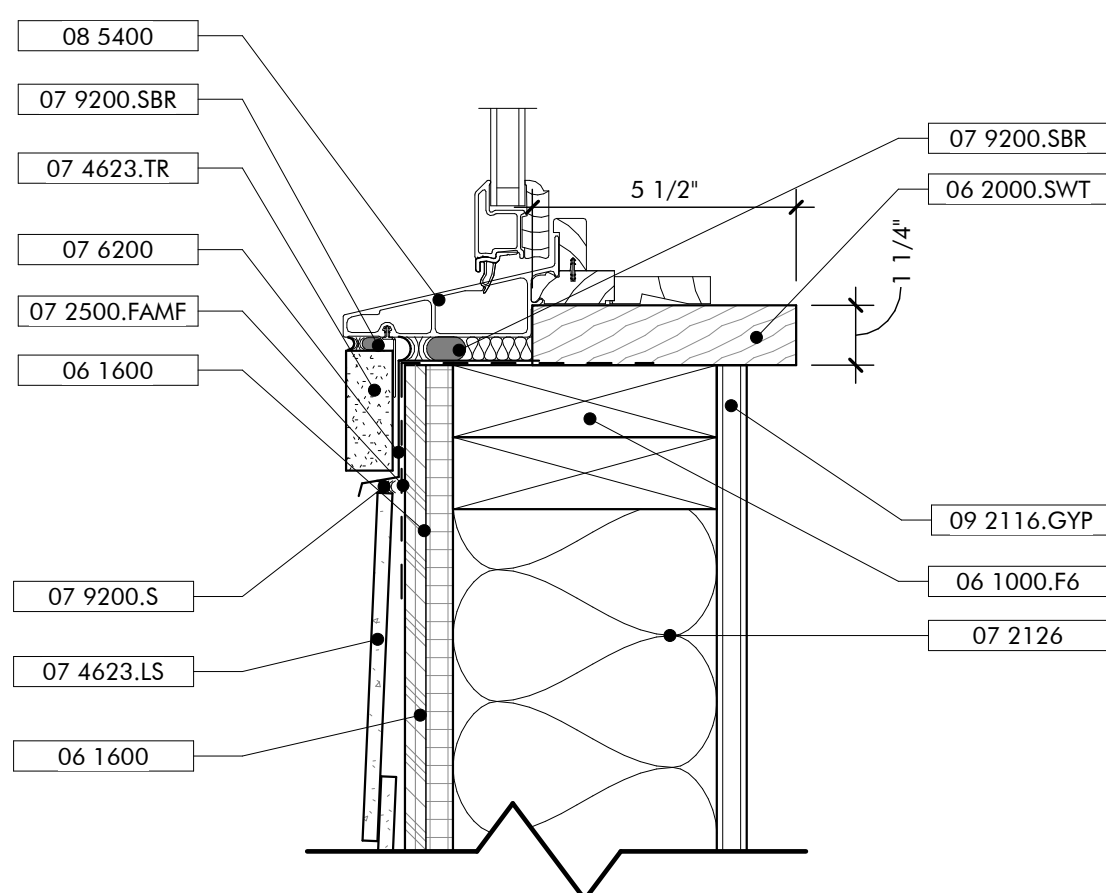
JAMB DETAIL
FRAMED VERTICAL MULLION
5
3" = 1'-0"



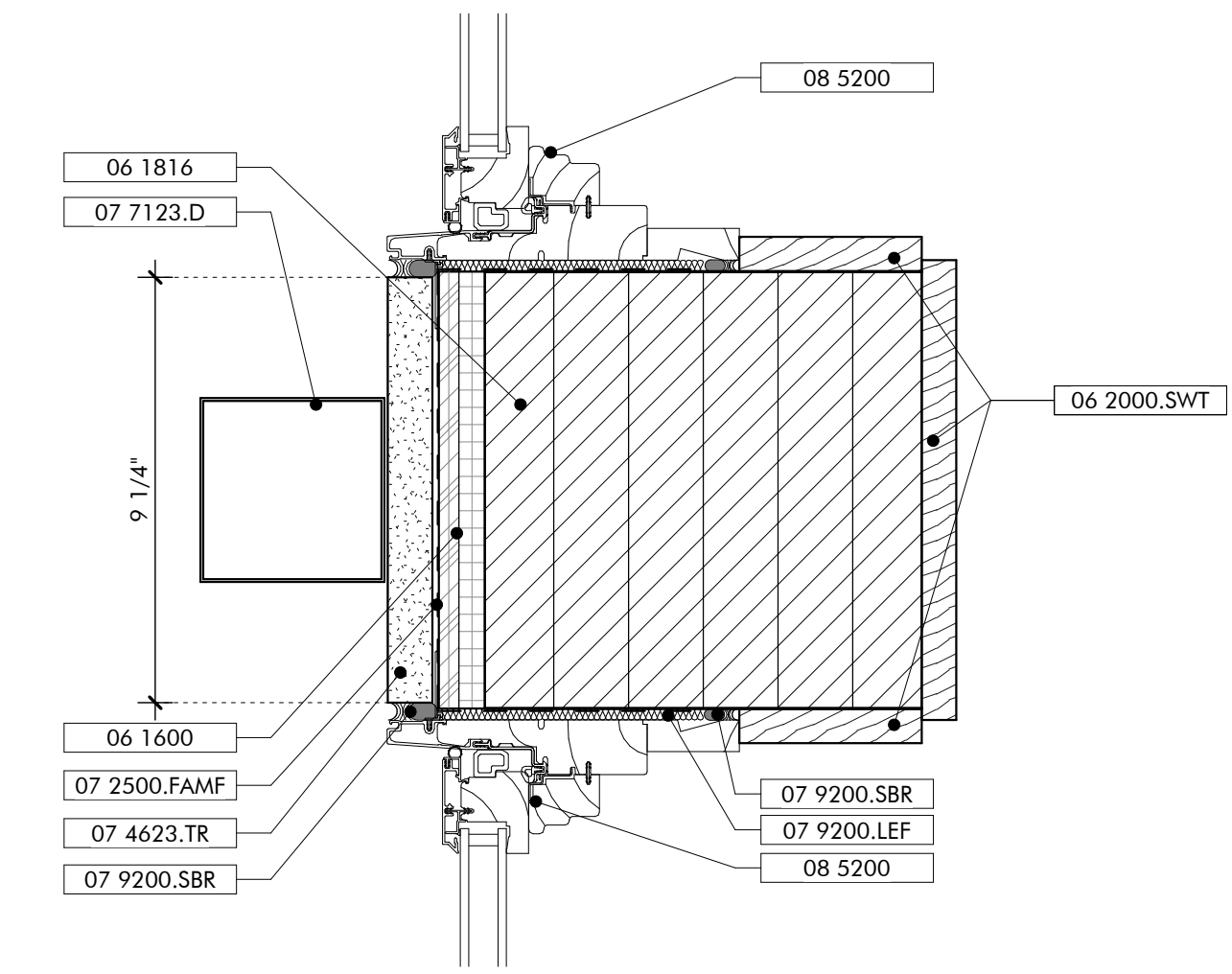
SECTION DETAIL
HORIZONTAL MULLION
2
3" = 1'-0"



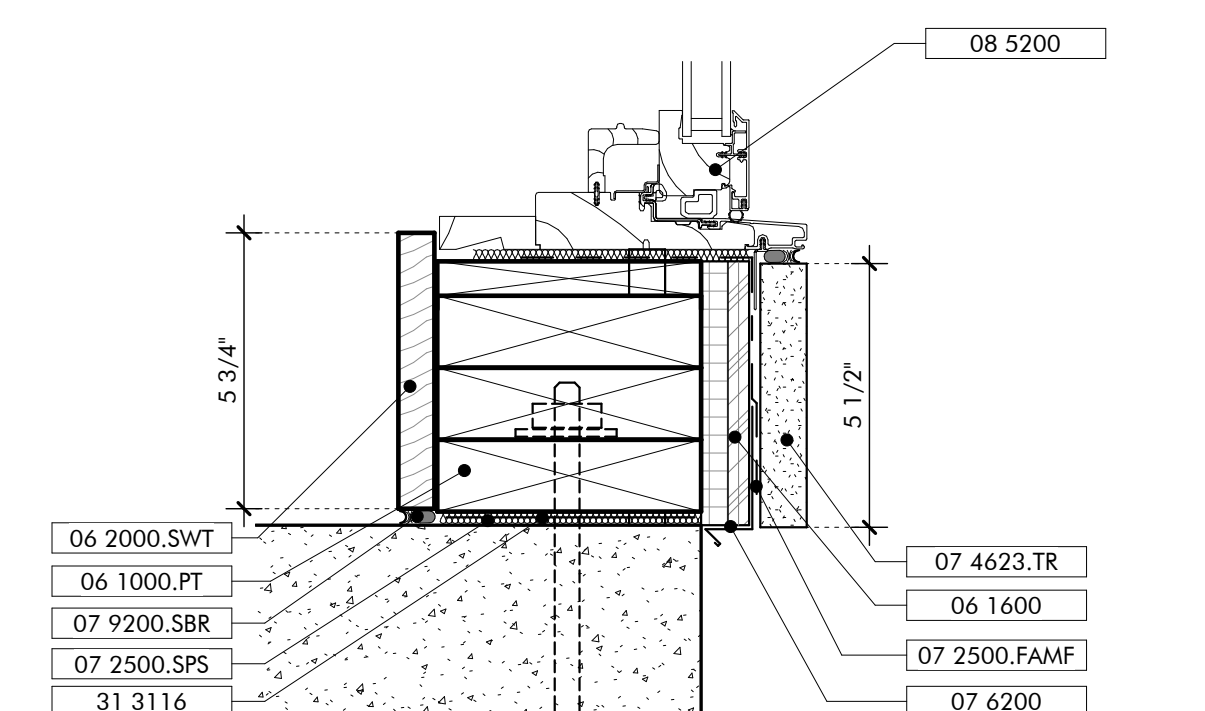
SILL DETAIL
AT CAMP STORE COUNTER
10
3" = 1'-0"



SILL DETAIL
TYP WINDOW
7
3" = 1'-0"



JAMB DETAIL
AT COLUMN
4
3" = 1'-0"



SILL DETAIL
AT SLAB
1
3" = 1'-0"

KEYNOTES

- 06 1000.F6 2x6 Framing
- 06 1000.PT Pressure Treated Sill Plate
- 06 1516 Wood Roof Decking
- 06 1600 Sheathing
- 06 1753 Shop-Fabricated Wood Trusses
- 06 1816 Glued Laminated Columns
- 06 2000.PLY Stained 3/4" Plywood
- 06 2000.SWT Stained Wood Trim
- 07 2100.NB2 2" Nail Base Rigid Insulation Board
- 07 2100.R30 R-30 Batt Insulation
- 07 2126 Blown Insulation
- 07 2500.FAMF Fluid Applied Membrane Flashing
- 07 2500.SPS Sill Plate Sealer
- 07 4113 Metal Roof Panels
- 07 4113.LUL Roof Underlayment
- 07 4623.CB Engineered Wood Corner Board
- 07 4623.LS Engineered Wood Lap Siding
- 07 4623.TR Engineered Wood Trim
- 07 6200 Sheet Metal Flashing and Trim
- 07 7123.D Manufactured Downspouts
- 07 9200.LEF Low Expansion Foam Sealant
- 07 9200.S Sealant and Backer Rod
- 07 9200.SBR Wood Windows
- 08 5200 Composite Windows
- 09 2116.GYP 1/2" Gypsum Wallboard
- 09 2116.L L Bead Accessory
- 12 3600 Counterops
- 31 3116 Termite Control

GENERAL NOTES

SHEET SPECIFIC NOTES

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GULF COAST CENTER
FOR ECOTOURISM & SUSTAINABILITY
SITE & CIVIL PACKAGE
GULF SHORES, ALABAMA

No.	1	DATE	JANUARY 6, 2023
Rev.		BY	SET
Drawn		DATE	
Checked		DATE	
Issued		DATE	
JOB			
19-028.000			
PROJECT STATUS			
CONFORMANCE SET			
DATE			
MARCH 24, 2023			
SHEET NAME			
DETAILS - WINDOWS			
SHEET NO.			

AW511



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Building Sustainability

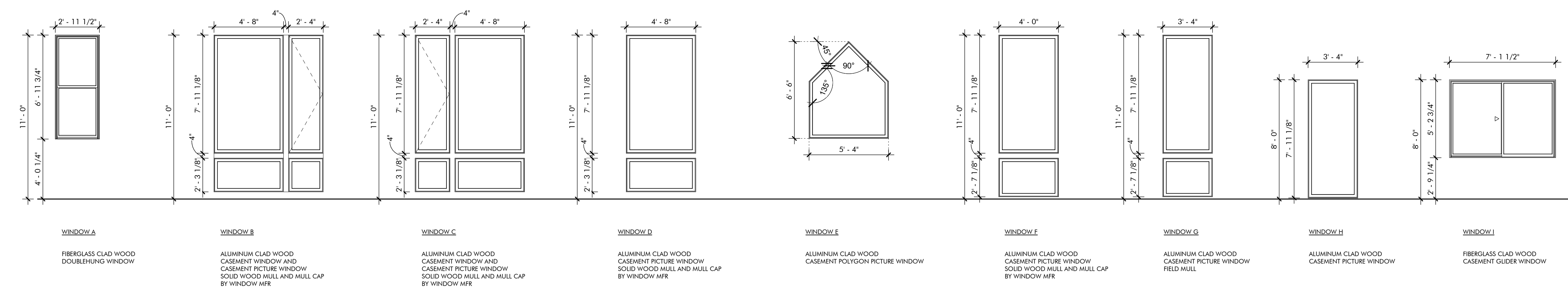
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p 251.929.0514

GULF COAST CENTER
FOR ECOTOURISM & SUSTAINABILITY
WELCOME HUB PACKAGE
GULF SHORES, ALABAMA

ROOM NO	LOCATION ROOM NAME	FLOOR FINISH	BASE	WALLS				CEILING	REMARKS
				WEST	NORTH	EAST	SOUTH		
101	CAMP OFFICE	PC	SWB	GB-1	GB-1	GB-1	GB-1	GB-1	
102	CAMP STORE	PC	SWB	GB-1	GB-1	GB-1	WD	GB-1	
103	STORAGE	PC	SWB	GB-1	WD	GB-1	GB-1	GB-1	
104	WOMEN'S RESTROOM	PC	TB	CWT	CWT	CWT	CWT	GB-2	
105	MEN'S RESTROOM	PC	TB	CWT	CWT	CWT	CWT	GB-2	
106	MEETING SPACE	PC	SWB	GB-1	GB-1	GB-1	WD	EXP	
107	UTIL/STOR	SC	RB	GB-2	GB-2	GB-2	GB-2	GB-2	
108	HALLWAY	PC	SWB	GB-1	GB-1	GB-1	GB-1	GB-1	
109	FAMILY ASSIST RESTROOM	PC	TB	CWT	CWT	CWT	CWT	GB-2	
110	BREAK ROOM	PC	SWB	GB-1	GB-1	GB-1	GB-1	GB-1	
111	RECEPTION	PC	SWB	GB-1	WD	GB-1	GB-1	GB-1	
112	OFFICE	PC	SWB	GB-1	GB-1	GB-1	GB-1	GB-1	
113	OFFICE	PC	SWB	GB-1	GB-1	GB-1	GB-1	GB-1	
114	OFFICE	PC	SWB	GB-1	GB-1	GB-1	GB-1	GB-1	
115	ELEC	PC	RB	GB-1	GB-1	GB-1	GB-1	GB-1	

SIGN LEGEND AND SCHEDULE
RELOCATED TO PROJECT MANUAL IN
SECTION 10 1400 SIGNAGE.

FLOOR	BASE	WALLS	CEILINGS
PC POLISHED CONCRETE SC SEALED CONCRETE	SWB STAINED WOOD BASE RB RUBBER BASE TB TILE BASE	GB-1 GYPSUM WALL BOARD, PAINTED MOISTURE RESISTANT GB-2 GYPSUM WALL BOARD, PAINTED CWT CERAMIC WALL TILE WD WOOD BOARDS, STAINED	GB-1 GYPSUM WALL BOARD, PAINTED GB-2 MOISTURE RESISTANT GYPSUM WALL BOARD, PAINTED EXP EXPOSED TO STRUCTURE



WINDOW LEGEND - WELCOME HUB

1/4" = 1'-0"

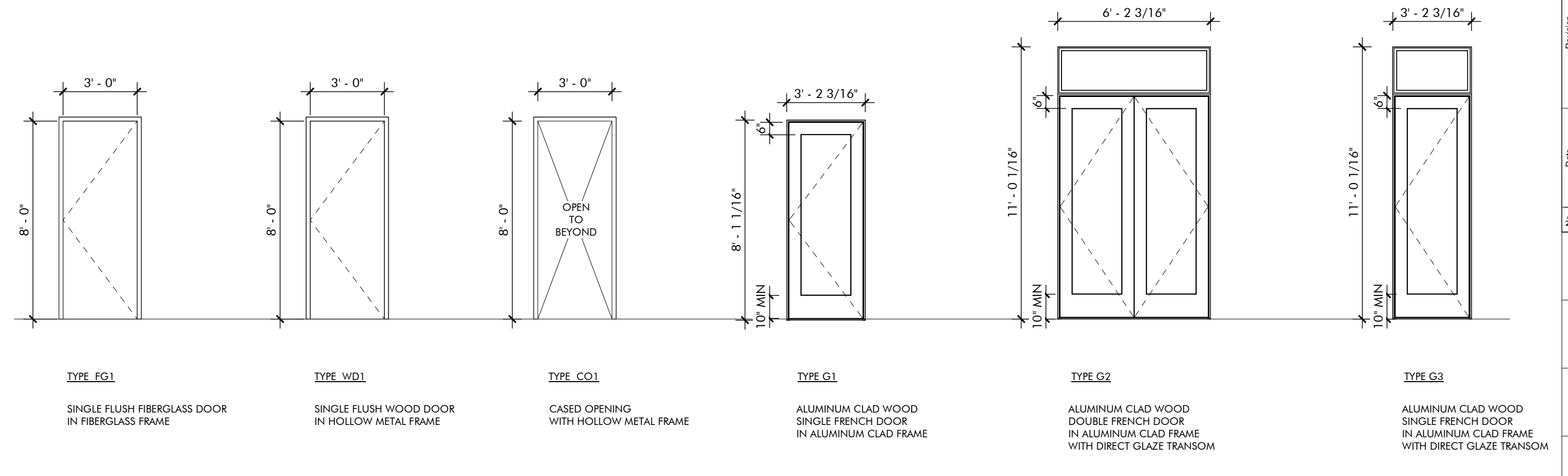
HARDWARE SETS SCHEDULE

QTY	ITEM	REMARKS
ENTRY		
1	CLOSER+ CUSH, HOLD OPEN	
4	HINGES BY DOOR MFG	BALL-BEARING
1	PULL BAR LOOP	
1	RM EXIT DEVICE W/ LOCK CYLINDER ENTRY TRIM	HEX DOGGING, BACK OF BAR FINISHED
	THRESHOLD BY DOOR MFG	
	WEATHERSTRIPPING BY DOOR MFG	
ENTRY-2		
1	ASTRAGAL	BRUSH TYPE
2	CLOSER+ CUSH, HOLD OPEN	
8	HINGES BY DOOR MFG	BALL-BEARING
2	PULL BAR LOOP	
2	THRESHOLD BY DOOR MFG	ADA COMPLIANT
2	VERTICAL ROD EXIT DEVICE W/ LOCK CYLINDER ENTRY TRIM	CONCEALED VERTICAL RODS TOP & BOTTOM, HEX DOGGING, BACK OF BAR FINISHED
	WEATHERSTRIPPING BY DOOR MFG	
ENTRY-3		
1	CLOSER+ CUSH, HOLD OPEN	
4	HINGES	BALL-BEARING
1	KICK PLATE	ON PUSH SIDE
1	LOCK CYLINDER, DEADBOLT	ON EXT. BLANK INT
1	PULL BAR LOOP	
1	PUSH PLATE	
1	THRESHOLD	
1	WALL STOP	
1	WEATHERSTRIPPING	
OFFICE		
1	CLOSER+ CUSH, HOLD OPEN	
4	HINGES	BALL-BEARING
1	LEVER LOCKSET	ENTRY OR OFFICE FUNCTION
3	SILENCERS	
1	WALL STOP	
PASSAGE		
2	BAR LOOPS	BACK-TO-BACK
1	CLOSER+ CUSH, HOLD OPEN	
4	HINGES	BALL-BEARING
3	SILENCERS	
1	WALL STOP	
PRIVACY		
1	CLOSER+ CUSH	
1	HINGES	BALL-BEARING
1	LEVER LOCKSET	PRIVACY OR BATH FUNCTION
3	SILENCERS	
1	WALL STOP	

DOOR SCHEDULE - WELCOME HUB

DOOR NO.	TYPE	HEIGHT	WIDTH	INT/EXT	FRAME	DOOR MTRL	HRDWR SET	DETAILS			ADD COMMENTS
								HEAD	SILL	JAMB	
101	G1	8'-1 1/8"	3'-2 1/4"	EXT	AL CLAD	AL CLAD	ENTRY	6/AWS10	1/AWS10	8/AWS10	
102a	WD1	7'-0"	3'-0"	INT	HM	WD	OFFICE	12/AWS10	4/AWS10	7/AWS10 SIM	
102b	WD1	7'-0"	3'-0"	INT	HM	WD	OFFICE	12/AWS10	4/AWS10	7/AWS10 SIM	
104	FG1	8'-0"	3'-0"	EXT	FG	FG	ENTRY-3	9/AWS10	1/AWS10	7/AWS10	
105	FG1	8'-0"	3'-0"	EXT	FG	FG	ENTRY-3	9/AWS10	1/AWS10	7/AWS10	
106a	G2	11'-0 1/8"	6'-2 1/4"	EXT	AL CLAD	AL CLAD	ENTRY-2	6/AWS10	1/AWS10	2/AWS10	PREP DOOR FOR CONCEALED VERTICAL RODS
106b	FG1	8'-0"	3'-0"	EXT	FG	FG	ENTRY	9/AWS10	1/AWS10	5/AWS10	
107	FG1	8'-0"	3'-0"	EXT	FG	FG	ENTRY	9/AWS10	1/AWS10	5/AWS10 SIM	
108	FG1	8'-0"	3'-0"	EXT	FG	FG	ENTRY	9/AWS10	1/AWS10	5/AWS10 SIM	
109	WD1	8'-0"	3'-0"	INT	HM	WD	PRIVACY	12/AWS10	4/AWS10	11/AWS10 SIM	
110a	WD1	8'-0"	3'-0"	INT	HM	WD	PASSAGE	12/AWS10	4/AWS10	11/AWS10 SIM	
110b	CO1	8'-0"	3'-0"	INT	HM	N/A	N/A	12/AWS10	4/AWS10	10/AWS10	
111	G3	11'-0 1/8"	3'-2 1/4"	EXT	AL CLAD	AL CLAD	ENTRY	3/AWS10	1/AWS10	8/AWS10 SIM	
112	WD1	8'-0"	3'-0"	INT	HM	WD	OFFICE	12/AWS10	4/AWS10	11/AWS10 SIM	
113	WD1	8'-0"	3'-0"	INT	HM	WD	OFFICE	12/AWS10	4/AWS10	11/AWS10 SIM	
114	WD1	8'-0"	3'-0"	INT	HM	WD	OFFICE	12/AWS10	4/AWS10	11/AWS10 SIM	
115	WD1	8'-0"	3'-0"	INT	HM	WD	OFFICE	12/AWS10	4/AWS10	11/AWS10 SIM	

NOTE: REFER SPECIFICATIONS FOR HARDWARE MFRS & PRODUCT SELECTIONS



DOOR LEGEND - WELCOME HUB

1/4" = 1'-0"

No.	1
Date	11/08/2023
Revision	CONFORMANCE SET
Job	
Project No.	19-028.000
Project Name	CONFORMANCE SET
Date	MARCH 24, 2023
Sheet Name	SCHEDULES
Sheet No.	AW600

STRUCTURAL TYPICAL ABBREVIATIONS			
AB	ANCHOR BOLT	VERT.	VERTICAL
AFF	ABOVE FINISH FLOOR	JST.	JOIST
BOT.	BOTTOM	JT.	JOINT
B.O. BM	BOTTOM OF BEAM	JG.	JOIST GIRDER
B.O. COL	BOTTOM OF COLUMN	K	KIPS (1000 LBS)
B.O. CONC	BOTTOM OF CONCRETE	KLF	KIPS PER LINEAR FOOT
B.O. FTG	BOTTOM OF FOOTING	KSP	KIPS PER SQUARE FOOT
B.O. FTG	BOTTOM OF FOOTING	KSP	KIPS PER SQUARE FOOT
B.O. JST	BOTTOM OF JOIST	KSI	KIPS PER SQUARE FOOT
B.O. SLAB	BOTTOM OF SLAB	LB/S	POUND/POUNDS
B.O. STL	BOTTOM OF STEEL	LLH	LONG LEG HORIZONTAL
B.O. WALL	BOTTOM OF WALL	LLV	LONG LEG VERTICAL
BFF	BELOW FINISH FLOOR	LIN.	LINEAR
BRG.	BEARING	LIN. FT.	LINEAR FOOT
BLK	BLOCK	MISC.	MISCELLANEOUS
BM.	BEAM	NS	NEAR SIDE
BP	BASE PLATE	NTS	NOT TO SCALE
BRDG.	BRIDGING	NOM.	NOMINAL
BRG.	BEARING	O.C.	ON CENTER
C/C	CENTER TO CENTER	O.F.	OUTSIDE FACE
CL	CENTERLINE	OPNG.	OPENING
CONN.	CONNECTION	OPP.	OPPOSITE
CMU	CONCRETE MASONRY UNIT	PL	PLATE
CONST. JT.	CONSTRUCTION JOINT	PAF	POWDER ACTUATED FASTENERS
CONT.	CONTINUOUS	PLF	POUNDS PER LINERA FOOT
CJ	CONTROL JOINT	PCF	POUNDS PER CUBIC FOOT
CONC.	CONCRETE	PCI	POUNDS PER CUBIC INCH
COL.	COLUMN	WP	WORK POINT
CTR.	CENTER	REV.	REVISION
DBL.	DOUBLE	REINF.	REINFORCING
DBA	DEFORMED ANCHOR BAR	REQ'D.	REQUIRED
DBE	DECK BEARING ELEVATIONS	SIM.	SIMILAR
EJ	EXPANSION JOINT	SCHED.	SCHEDULE
ELEV.	ELEVATION	SLH	SHORT LEG HORIZONTAL
EMBED.	EMBEDMENT	SLV.	SHORT LEG VERTICAL
EXIST. GR.	EXISTING GRADE	SJ	SAW JOINT
EXIST.	EXISTING	SPA.	SPACING
EOS	EDGE OF SLAB	SF	SQUARE FOOT
FF	FINISH FLOOR	STD.	STANDARD
F.O. BM.	FACE OF BEAM	STIFF.	STIFFENER
F.O. COL.	FACE OF COLUMN	STRUCT.	STRUCTURAL
F.O. CONC.	FACE OF CONCRETE	TBR	TO BE REMOVED
F.O. FTG.	FACE OF FOOTING	T&B	TOP AND BOTTOM
F.O. JST.	FACE OF JOIST	T.O. BM	TOP OF BEAM
F.O. SLAB	FACE OF SLAB	T.O. COL	TOP OF COLUMN
F.O. STL.	FACE OF STEEL	T.O. CONC	TOP OF CONCRETE
F.O. WALL	FACE OF WALL	T.O. FTG	TOP OF FOOTING
FLR.	FLOOR	T.O. JST	TOP OF JOIST
FDN.	FOUNDATION	T.O. SLAB	TOP OF SLAB
FTG.	FOOTING	T.O. STL	TOP OF STEEL
HS	HEADED STUD	T.O. WALL	TOP OF WALL
HK.	HOOK	THK.	THICK
HORIZ.	HORIZONTAL	THRU	THROUGH
TYP	TYPICAL	W/O	WITHOUT
UNO	UNLESS NOTED OTHERWISE	WWR	WELDED WIRE REINFORCEMENT

CAST-IN-PLACE CONCRETE MIX SCHEDULE										
APPLICATION	EXPOSURE CLASS	STRENGTH (PSI)	TYPE	W/C RATIO	SLUMP	AIR CONTENT	MAX AGGREGATE	MAX CONCRETE WEIGHT (PCF)	FIBER	
SLAB ON GRADE / PEDESTALS	F0, S0, P0, CO	4,000	NORMAL WT.	0.45 (40% ASH)	3" TO 5"	---	3/4"	---	NO	
SHALLOW FOUNDATIONS	F0, S0, P0, CO	3,000	NORMAL WT.	0.50 (40% ASH)	4" TO 6"	---	3/4"	---	NO	

- EXPOSURE CLASS FOR FREEZE/THAW, SULFATES, PERMEABILITY, AND CORROSION ARE PER ACI 318, SECTION 4.2.
- WHERE NO W/C RATIO, SLUMP, OR AIR CONTENT IS NOTED, VALUES SHALL BE AS RECOMMENDED BY THE READY MIX SUPPLIERS ENGINEER.
- WHERE AIR ENTRAINMENT IS NOT REQUIRED PER THE ABOVE TABLE, THE CONTRACTOR, INSTALLER, OR SUPPLIER MAY CHOOSE TO INCLUDE AIR ENTRAINMENT TO IMPROVE PLACEMENT AND FINISHING CHARACTERISTICS. AIR ENTRAINMENT IS NOT PERMITTED IN NORMAL WEIGHT CONCRETE TO RECEIVE A HARD TROWEL FINISH, AND ENTRAPPED AIR SHALL NOT EXCEED 3%. AIR ENTRAINMENT IN LIGHT WEIGHT CONCRETE SLABS IS REQUIRED TO MEET FIRE RATING REQUIREMENTS. SLABS SHALL BE PROPERLY FINISHED TO AVOID SURFACE IMPERFECTIONS SUCH AS BLISTERING OR DELAMINATION.
- CEMENT AND AGGREGATES SHALL BE FROM A SINGLE SOURCE.

CIP CONCRETE CLEAR COVER SCHEDULE	
LOCATION	COVER mm (IN)
CONCRETE CAST AGAINST & EXPOSED TO EARTH	76 (3")
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 TO #18 BARS	51 (2")
#5, W31, AND SMALLER BARS	38 (1 1/2")
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
SLABS, WALLS, AND JOISTS	
#14 AND #18 BARS	38 (1 1/2")
#11 AND SMALLER BARS	19 (3/4")
BEAMS AND COLUMNS	38 (1 1/2")
FOOTINGS, GRADE BEAMS, AND PILE CAPS	51 (2") TOP 76 (3") BOT. & SIDES
DRILLED PIERS AND BELLED PIERS	76 (3") CLEAR OF TIES
PEDESTALS AND COLUMNS	38 (1 1/2") CLEAR OF TIES
BASEMENT WALLS	51 (2") EXT. & 19 (3/4") INT.
RETAINING WALLS	51 (2") BOTH FACES
SUMP AND PIT WALLS	51 (2") BOTH FACES
ELEVATED SLABS NOT EXPOSED TO WEATHER	19 (3/4") TOP & BOT.
POST TENSIONED SLABS EXPOSED TO WEATHER	25 (1") TOP & BOT.
ELEVATED SLABS EXPOSED TO WEATHER:	
#5 AND SMALLER BARS	38 (1 1/2") TOP & 19 (3/4") BOT.
#6 AND GREATER BARS	51 (2") TOP & 19 (3/4") BOT.
WELDED WIRE REINFORCEMENT:	
5" OR LESS SLAB THICKNESS	CENTER
6" OR GREATER SLAB THICKNESS	51 (2") FROM TOP
SLAB ON WELL GRADED SUBGRADE OR VAPOR BARRIERS	19 (3/4") TOP 38 (1 1/2") BOT.
BEAMS	38 (1 1/2") CLEAR OF STIRRUPS
JOISTS	38 (1 1/2") ALL SIDES
WIDE MODULE JOISTS	19 (3/4")

CONCRETE TENSION SPLICE LAP LENGTHS												
BAR SIZE	f _c = 3000 PSI				f _c = 4000 PSI				f _c = 5000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	A	B	A	B	A	B	A	B	A	B	A	B
#3	22	28	17	22	19	25	15	19	17	22	13	17
#4	29	38	22	29	25	33	19	25	23	29	17	23
#5	36	47	28	36	31	41	24	31	28	36	22	28
#6	54	56	33	43	37	49	29	37	34	44	26	34
#7	63	81	48	63	54	71	42	54	49	63	38	49
#8	72	93	55	72	62	81	48	62	56	72	43	56
#9	81	105	62	81	70	91	54	70	63	81	48	63
#10	91	118	70	91	79	102	61	79	71	92	54	71
#11	101	131	78	101	87	114	67	87	78	102	60	78

- ALL LENGTHS ARE IN INCHES.
- BAR COVER AND TRANSVERSE REINFORCEMENT SHALL MEET CODE MINIMUM.
- LAP SPLICING OF #14 & #18 BARS IS NOT ALLOWED.
- LAP LENGTHS ARE FOR NORMAL WEIGHT CONCRETE WITH UNCOATED, 60 KSI BARS.
- WHEN LAPPING BARS OF DIFFERENT SIZES USE THE SPLICE LAP LENGTH OF THE SMALLER BAR, OR THE DEVELOPMENT LENGTH OF THE LARGER BAR, WHICHEVER IS GREATER. THE "A" VALUE FROM THE TABLE IS EQUAL TO THE BAR DEVELOPMENT LENGTH.
- TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

SCHEDULE OF SPECIAL INSPECTIONS		
SPECIAL CASES (IBC 1705.1.1)		
ITEM	FREQUENCY	INSTRUCTIONS / COMMENTS
INSPECT WORK THAT IS DEEMED "UNUSUAL" BY THE BUILDING OFFICIAL.	CONTINUOUS	AS DEFINED BY THE BUILDING OFFICIAL OR REGISTERED DESIGN PROFESSIONAL.
SOILS CONSTRUCTION (IBC 1705.6)		
ITEM	FREQUENCY	EXTENT / COMMENTS
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	AS RECOMMENDED IN APPROVED SOILS REPORT AND CONTAINED IN THE CONSTRUCTION DOCUMENTS.
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	
VERIFY CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	
OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF COMPACTED FILL.	PERIODIC	
CONCRETE CONSTRUCTION (IBC 1705.3)		
ITEM	FREQUENCY	EXTENT / COMMENTS
SPREAD FOOTING ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	---	
CONTINUOUS FOOTINGS ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	---	
SLABS ON GRADE ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	---	
CONCRETE FOUNDATION WALLS ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	---	
INSPECT ANCHORS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	PERIODIC	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE.	PERIODIC	INSPECT ACCORDING TO RESEARCH REPORT FOR THE ANCHOR ISSUED. FOR EACH POUR.
VERIFY THAT CORRECT CONCRETE DESIGN MIX IS BEING USED.	PERIODIC	
AT THE TIME CONCRETE IS SAMPLED FOR STRENGTH TESTS, TEST CONCRETE FOR SLUMP, AIR CONTENT, AND TEMPERATURE.	CONTINUOUS	DURING PLACEMENT OPERATIONS. REFERENCE CONCRETE SPECIFICATIONS FOR SPECIFIC TESTS AND FREQUENCIES.
INSPECT CONCRETE/SHOTCRETE PLACEMENT AND PLACEMENT METHODS EXCEPT AS NOTED ABOVE.	CONTINUOUS	
INSPECT ALL CONCRETE CURING OPERATIONS.	PERIODIC	MONITOR DURING HOT, COLD AND WINDY CONDITIONS. REFERENCE CONCRETE SPECIFICATIONS.
MEASURE FLOOR AND SLAB FLATNESS AND LEVELNESS ACCORDING TO ASTM E 1155.	PERIODIC	FOR EACH POUR. DO NOT SUBMIT REPORTS TO BUILDING OFFICIAL.
STRUCTURAL STEEL CONSTRUCTION (IBC 1705.2.1)		
ITEM	FREQUENCY	EXTENT / COMMENTS
INSPECT ANCHOR RODS AND OTHER EMBEDMENTS. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND THE EXTENT OF DEPTH OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE.	PERIODIC	APPLIES TO EMBEDDED POST/COLUMN CONNECTIONS.
WOOD CONSTRUCTION (IBC 1705.5)		
ITEM	FREQUENCY	EXTENT / COMMENTS
INSPECT SITE-BUILT ASSEMBLIES INCLUDING SITE BUILT TRUSSES. INSPECT ERECTED TRUSSES INCLUDING BRIDGING AND ATTACHMENTS.	PERIODIC	
NOTES		
NOTE: THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE INSPECTION AGENT(S) ARE CONTINUOUS: THE INSPECTOR IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS		



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No.	1
Date	03/27/23
Revision	Rev. 1: 03/27/23
Drawn by	Rev. 2: 03/27/23
Checked by	Rev. 3: 03/27/23
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Job	

20-1101-0049

PROJECT STATUS
CONFIRMANCE SET

DATE
MARCH 24, 2023

SHEET NAME
ABBREVIATIONS SCHEDULES & TABLES

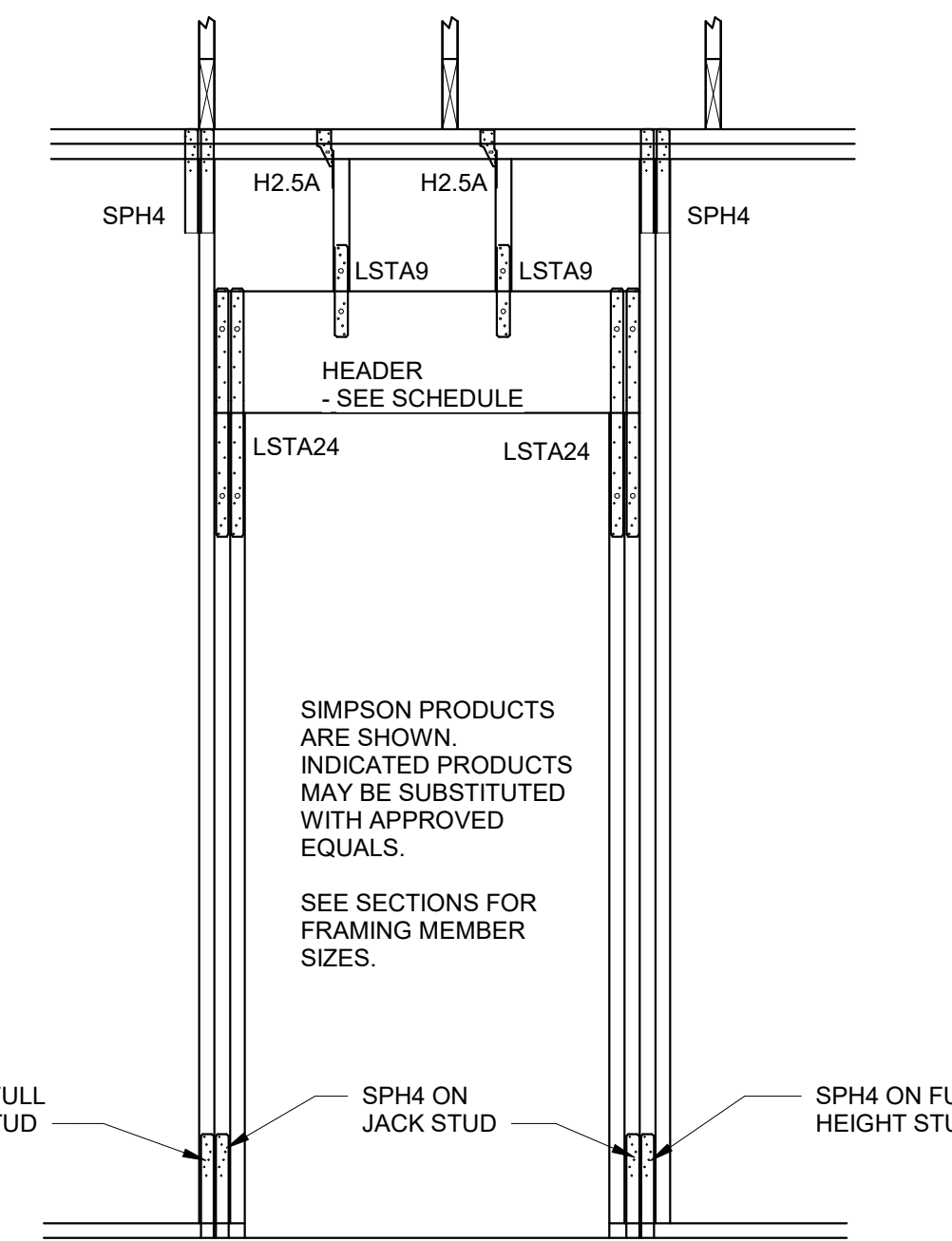
SHEET NO.
SW002

NAIL FASTENING SCHEDULE		
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION
ROOF		
BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING	3-8D COMMON (2 1/2"x0.131"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8D COMMON (2 1/2"x0.131") 2-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	EACH END, TOENAIL
	2-16D COMMON (3 1/2"x0.162") AT 6" O.C. 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16D COMMON (2 1/2"x0.131") AT 6" O.C.	FACE NAIL
CEILING JOISTS TO TOP PLATE	3-8D COMMON (2 1/2"x0.131"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOENAIL
CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-16D COMMON (2 1/2"x0.131"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL
COLLAR TIE TO RAFTER	3-10D COMMON (3"x0.148"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 1308.7.5)	3-16D COMMON (3"x0.148"); OR 3-16D COMMON (2 1/2"x0.131"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16D COMMON (3 1/2"x0.162"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
	3-16D COMMON (3"x0.148"); OR 4-16D BOX (3 1/2"x0.135"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
WALL		
STUD TO STUD (NOT AT BRACED WALL PANELS)	16D COMMON (3 1/2"x0.162")	24" O.C. FACE NAIL
	10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16D COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
	16D BOX (3 1/2"x0.162")	12" O.C. FACE NAIL
	3"x0.131 NAILS; OR 3" 14 GAUGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
BUILT-UP HEADER (2" TO 2" HEADER)	16D COMMON (3 1/2"x0.162")	16" O.C. EACH EDGE, FACE NAIL
	10D BOX (3"x0.128")	12" O.C. EACH EDGE, FACE NAIL
CONTINUOUS HEADER TO STUD	4-8D COMMON (2 1/2"x0.131"); OR 4-10D BOX (3"x0.128")	TOENAIL
TOP PLATE TO TOP PLATE	16D COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
	10D BOX (3"x0.128"); OR 4-3"x0.131 NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
TOP PLATE TO TOP PLATE, AT END JOINTS	8-16D COMMON (3 1/2"x0.162"); OR 12-10D BOX (3"x0.128"); OR 12-3"x0.131" NAILS; OR 12-3" 14 GAGE STAPLES, 7/16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
	16D BOX (3 1/2"x0.135"); OR 3"x0.131 NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16D COMMON (3 1/2"x0.162"); OR 3-16D BOX (3"x0.135"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
	2-16D COMMON (3 1/2"x0.162"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
TOP PLATES, LAPS AT CORNERS, AND INTERSECTIONS	2-16D COMMON (3 1/2"x0.162"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
1" BRACE TO EACH STUD AND PLATE	2-8D COMMON (2 1/2"x0.131"); OR 2-10D BOX (3"x0.128"); OR 2-3"x0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
1"x6" SHEATHING TO EACH BEARING	2-8D COMMON (2 1/2"x0.131"); OR 2-10D BOX (3"x0.128")	FACE NAIL
1"x8" AND WIDER SHEATHING TO EACH BEARING	3-8D COMMON (2 1/2"x0.131"); OR 3-10D BOX (3"x0.128")	FACE NAIL

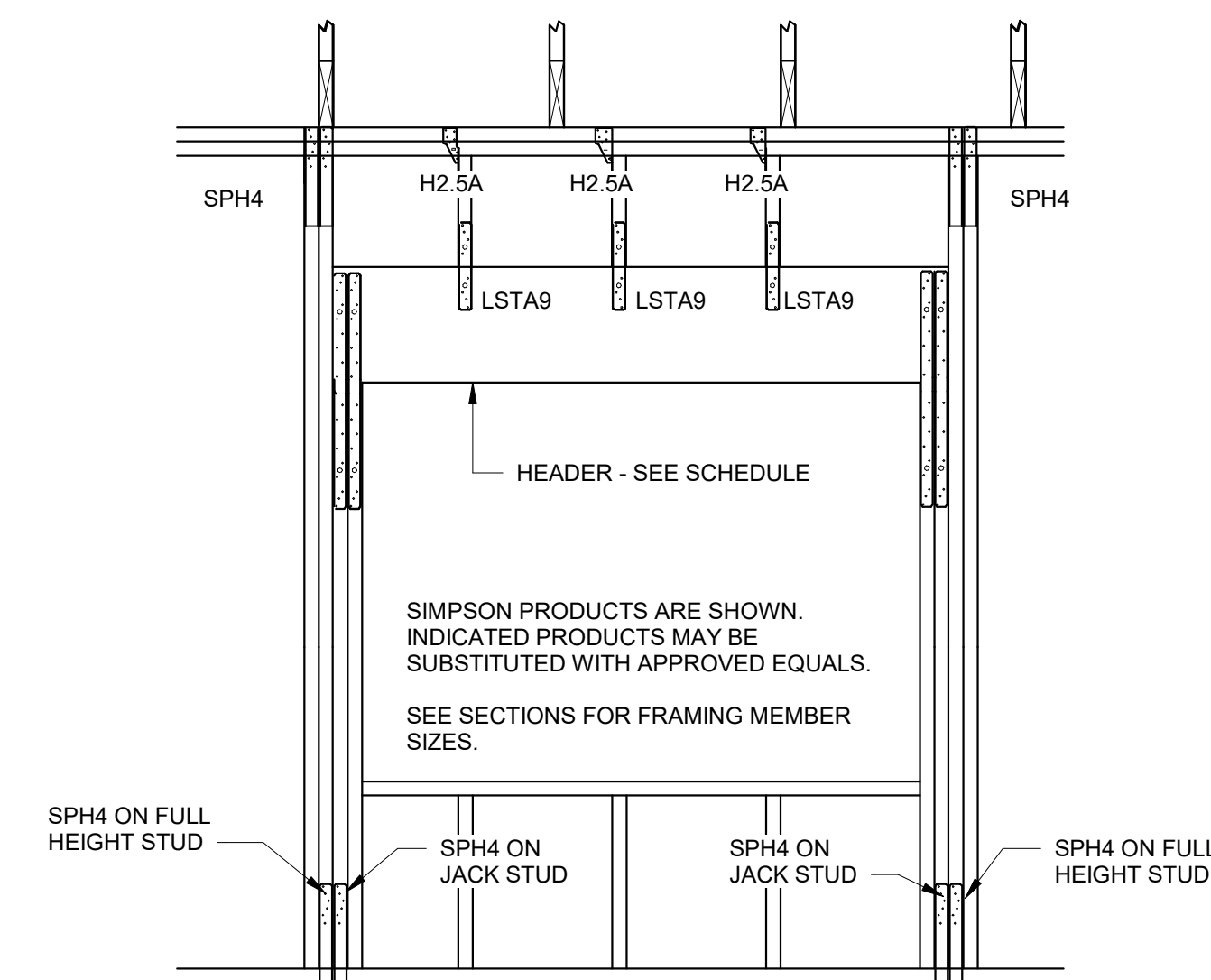
FLOOR		
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION
JOIST TO SILL, TOP PLATE, OR GIRDER	3-8D COMMON (2 1/2"x0.131"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131 NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	8D COMMON (2 1/2"x0.131"); OR 10D BOX (3"x0.128"); OR 3"x0.131 NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	6" O.C., TOENAIL
1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8D COMMON (2 1/2"x0.131"); OR 2-10D BOX (3"x0.128")	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDER	2- 16D COMMON (3 1/2"x0.162")	FACE NAIL
2" PLANKS (PLANK AND BEAM - FLOOR AND ROOF)	2- 16D COMMON (3 1/2"x0.162")	EACH BEARING, FACE NAIL
BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20D BOX (4"x0.192")	32" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	10D BOX (3"x0.128"); OR 3"x0.131 NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	AND 2-20D COMMON (4"x0.192"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAUGE STAPLES, 7/16" CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16D COMMON (3 1/2"x0.162"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST OR RAFTER, FACE NAIL
JOIST TO BAND JOIST OR RIM JOIST	3-16D COMMON (3 1/2"x0.162"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS	2-8D COMMON (2 1/2"x0.131"); OR 2-10D BOX (3"x0.128"); OR 2-3"x0.131 NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL

FOR USE WHEN A SPECIFIC CONNECTION IS NOT PROVIDED IN DETAILS AND SECTIONS.

WOOD HEADER TABLE			
HEADER	MAX SPAN	DESCRIPTION	DETAIL
HD428	5'-0"	2X4 WALL WITH DOUBLE 2X8 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (2) 16D NAILS @12" OC.	
HD4212	8'-0"	2X4 WALL WITH DOUBLE 2X12 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (3) 16D NAILS @12" OC.	
HD628	6'-6"	2X6 WALL WITH TRIPLE 2X8 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (2) 16D NAILS @12" OC.	
HD6212	10'-0"	2X6 WALL WITH TRIPLE 2X12 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (3) 16D NAILS @12" OC.	
HD628i	5'-6"	2X6 WALL WITH DOUBLE 2X8 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ 16D NAILS @6" OC.	
HD6212i	8'-6"	2X6 WALL WITH DOUBLE 2X12 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ 16D NAILS @6" OC.	
HD6212hs	12'-0"	2X6 WALL WITH TRIPLE 2X12 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ (3) 16D NAILS @6" OC T&B.	



TYPICAL DOOR OPENING HOLD-DOWN



TYPICAL WINDOW OPENING HOLD-DOWN



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No.	Date	Revision	Description
1	03/24/2023	Rev. 1	CS Comments
2	03/24/2023	Rev. 2	Added Table and Details

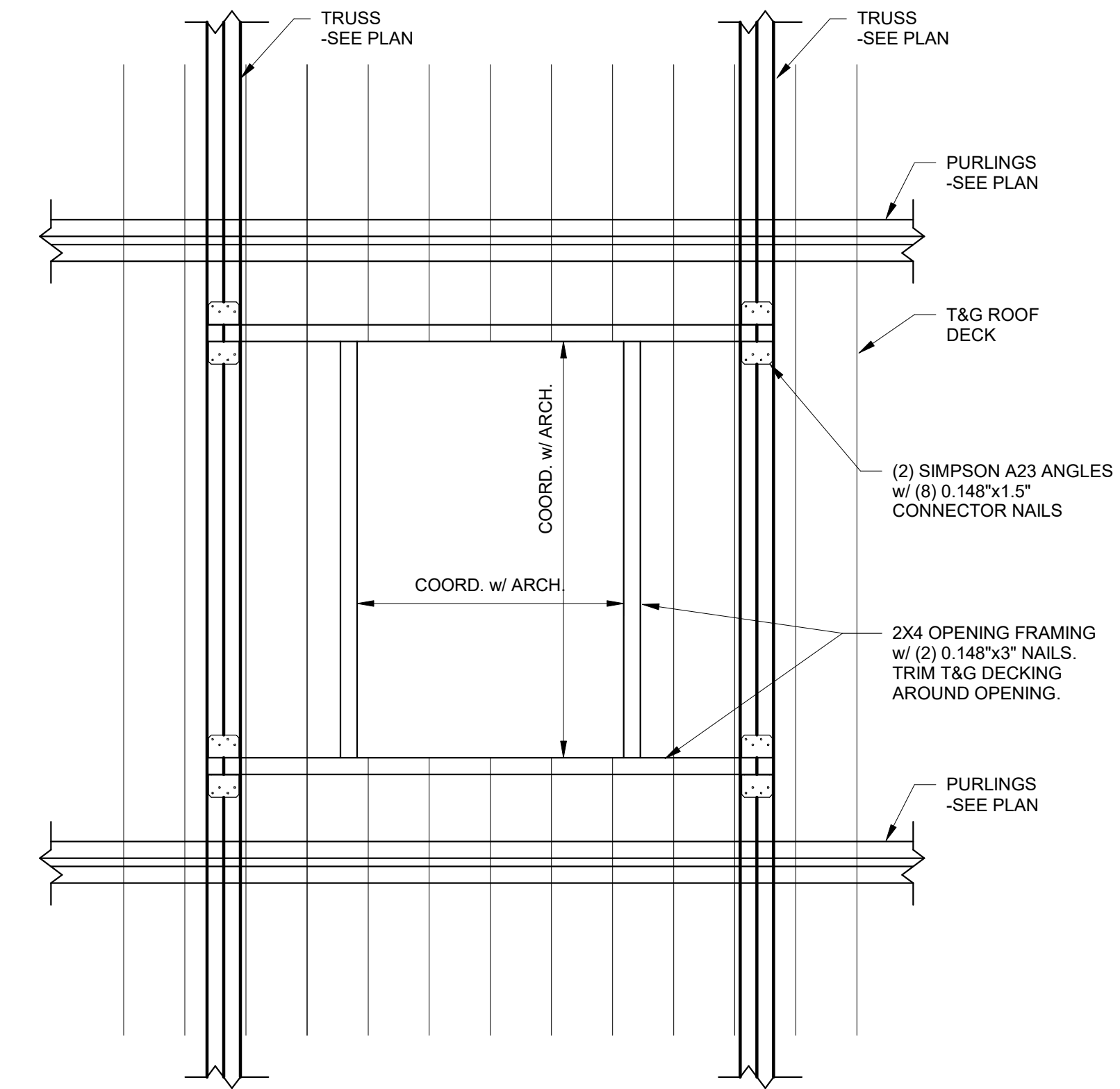
JOB
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PROJECT STATUS
CONFORMANCE SET

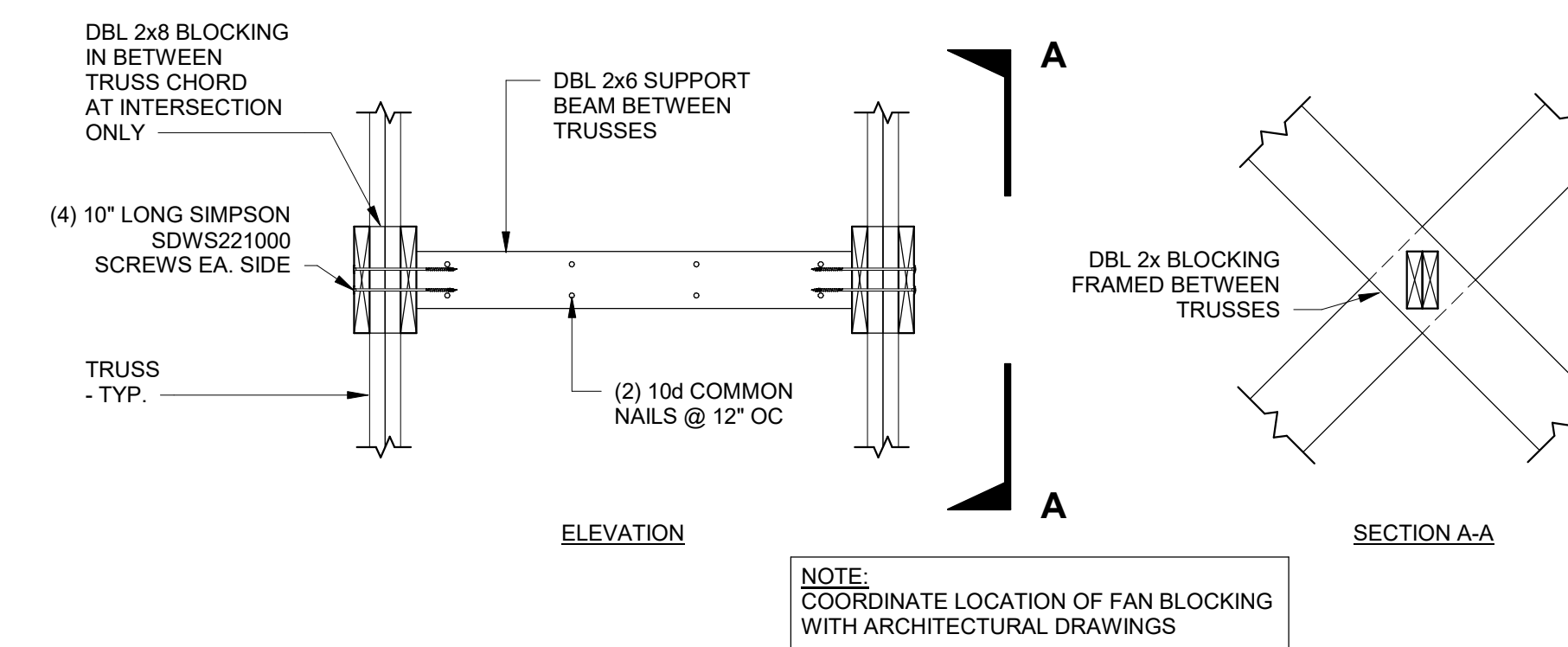
DATE
MARCH 24, 2023

SHEET NAME
**SCHEDULES &
TABLES**

SHEET NO.
SW003



ROOF PENETRATION DETAIL



FAN SUPPORT BEAM DETAIL



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WELCOME HUB PACKAGE
GULF SHORES, ALABAMA

Revision	
Date	
No.	

JOB
20-1101-0049

PROJECT STATUS
CONFORMANCE SET

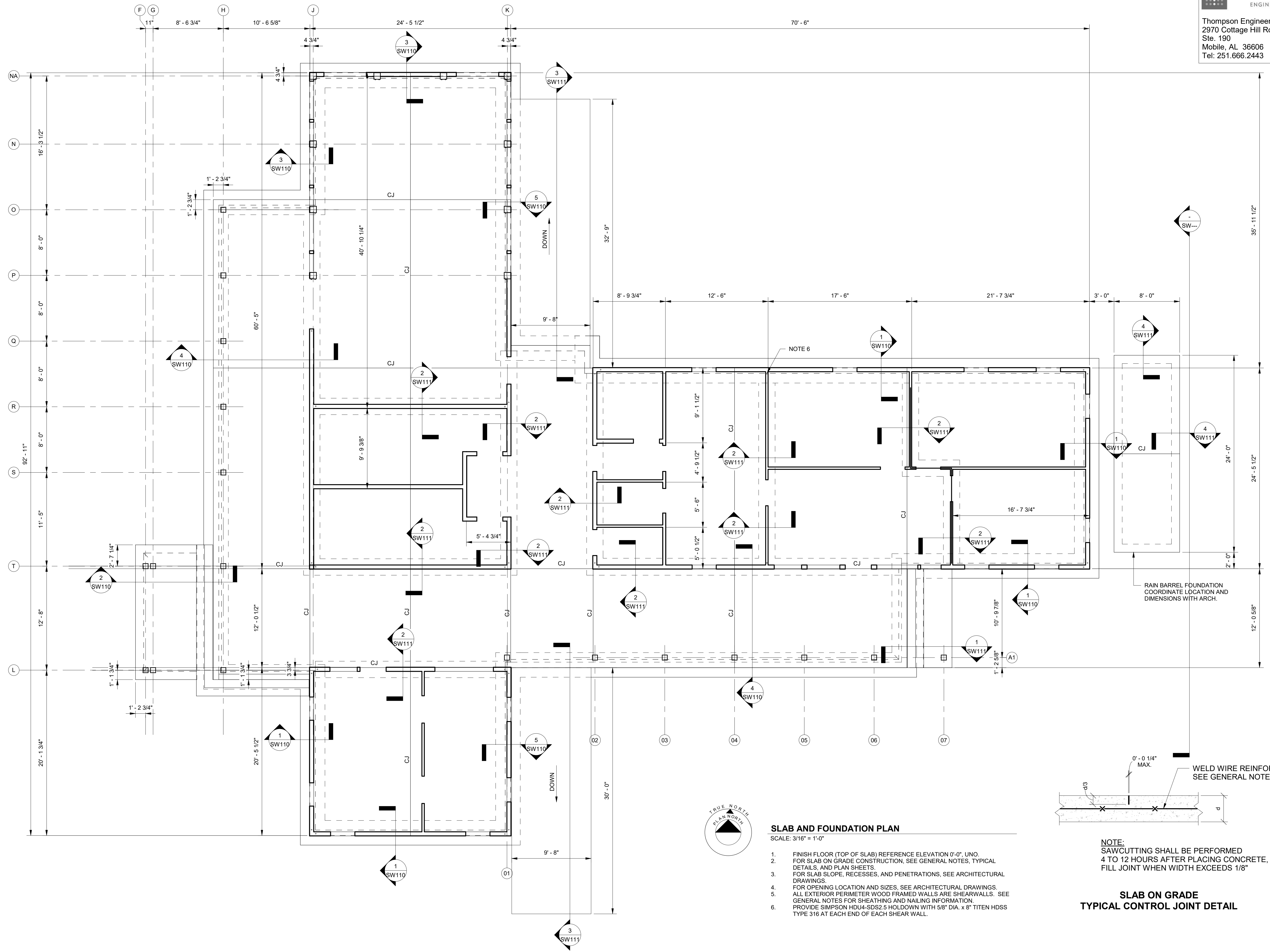
DATE
MARCH 24, 2023

SHEET NAME
TYPICAL DETAILS

SHEET NO.
SW005

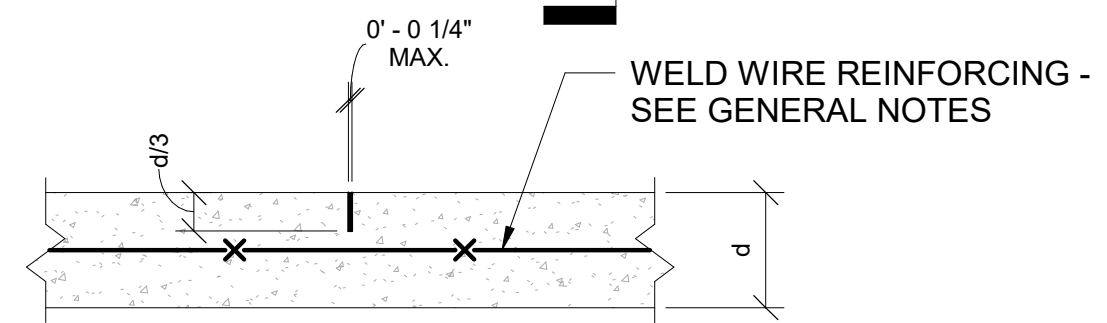
Revision	
Date	
No.	
Job	

JOB	20-1101-0049
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	SLAB AND FOUNDATION PLAN
SHEET NO.	SW 100



SLAB AND FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

1. FINISH FLOOR (TOP OF SLAB) REFERENCE ELEVATION 0'-0". UNO.
2. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES, TYPICAL DETAILS, AND PLAN SHEETS.
3. FOR SLAB SLOPE, RECESSES, AND PENETRATIONS, SEE ARCHITECTURAL DRAWINGS.
4. FOR OPENING LOCATION AND SIZES, SEE ARCHITECTURAL DRAWINGS.
5. ALL EXTERIOR PERIMETER WOOD FRAMED WALLS ARE SHEARWALLS. SEE GENERAL NOTES FOR SHEATHING AND NAILING INFORMATION.
6. PROVIDE SIMPSON HDU4-SDS2.5 HOLDDOWN WITH 5/8" DIA. x 8" TITEN HDSS TYPE 316 AT EACH END OF EACH SHEAR WALL.



NOTE:
SAWCUTTING SHALL BE PERFORMED 4 TO 12 HOURS AFTER PLACING CONCRETE, FILL JOINT WHEN WIDTH EXCEEDS 1/8"

SLAB ON GRADE
TYPICAL CONTROL JOINT DETAIL



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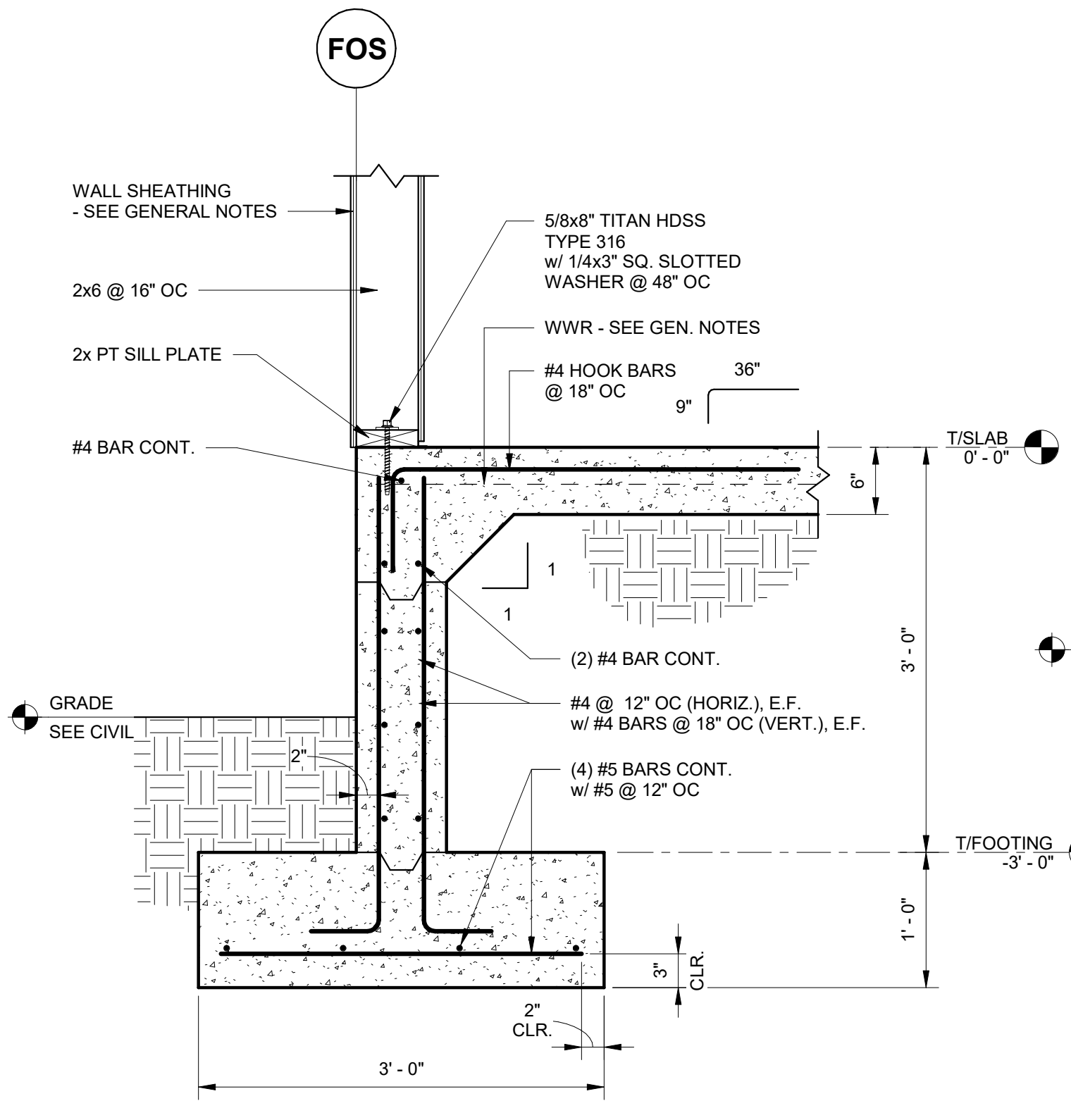
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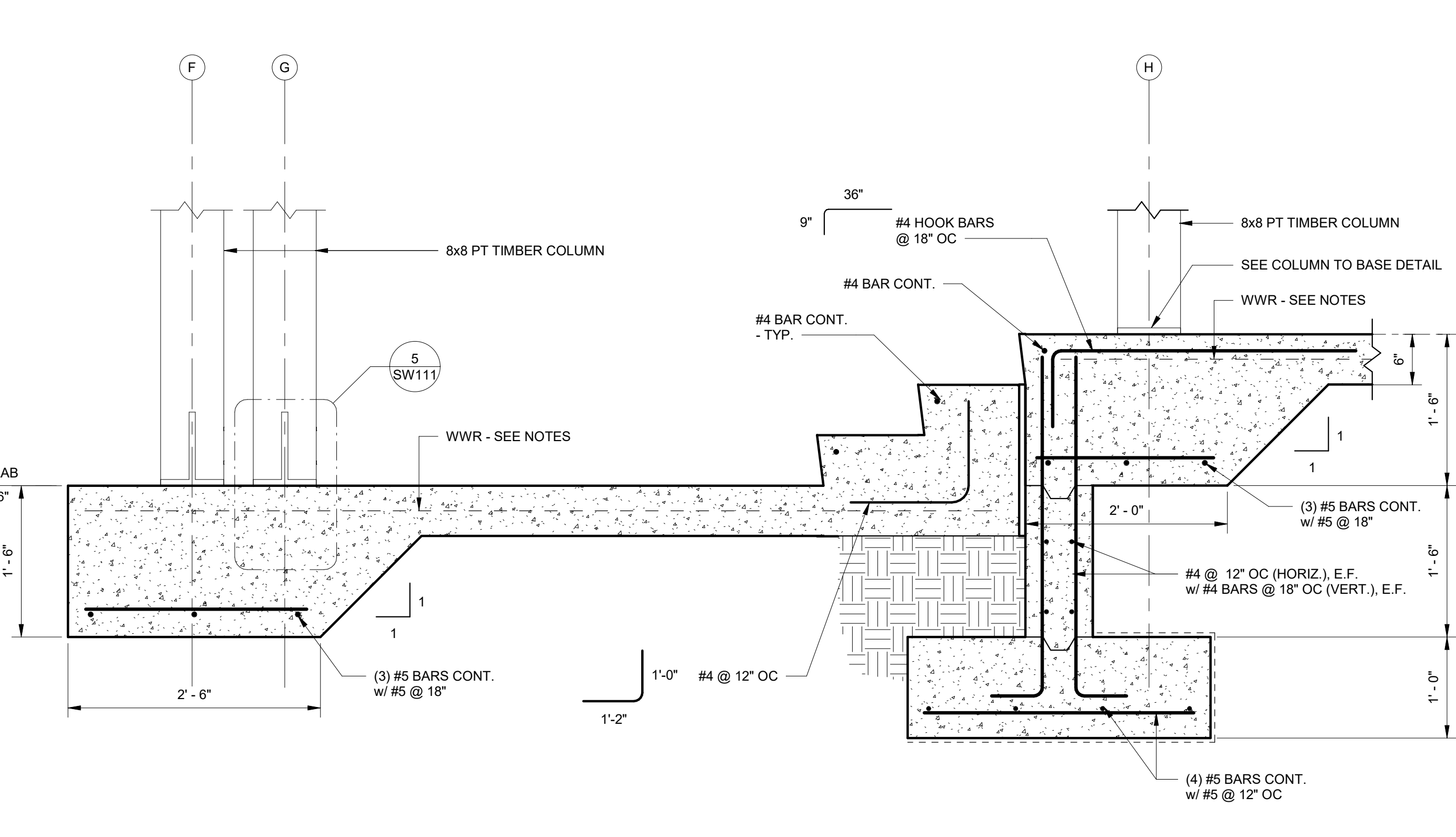
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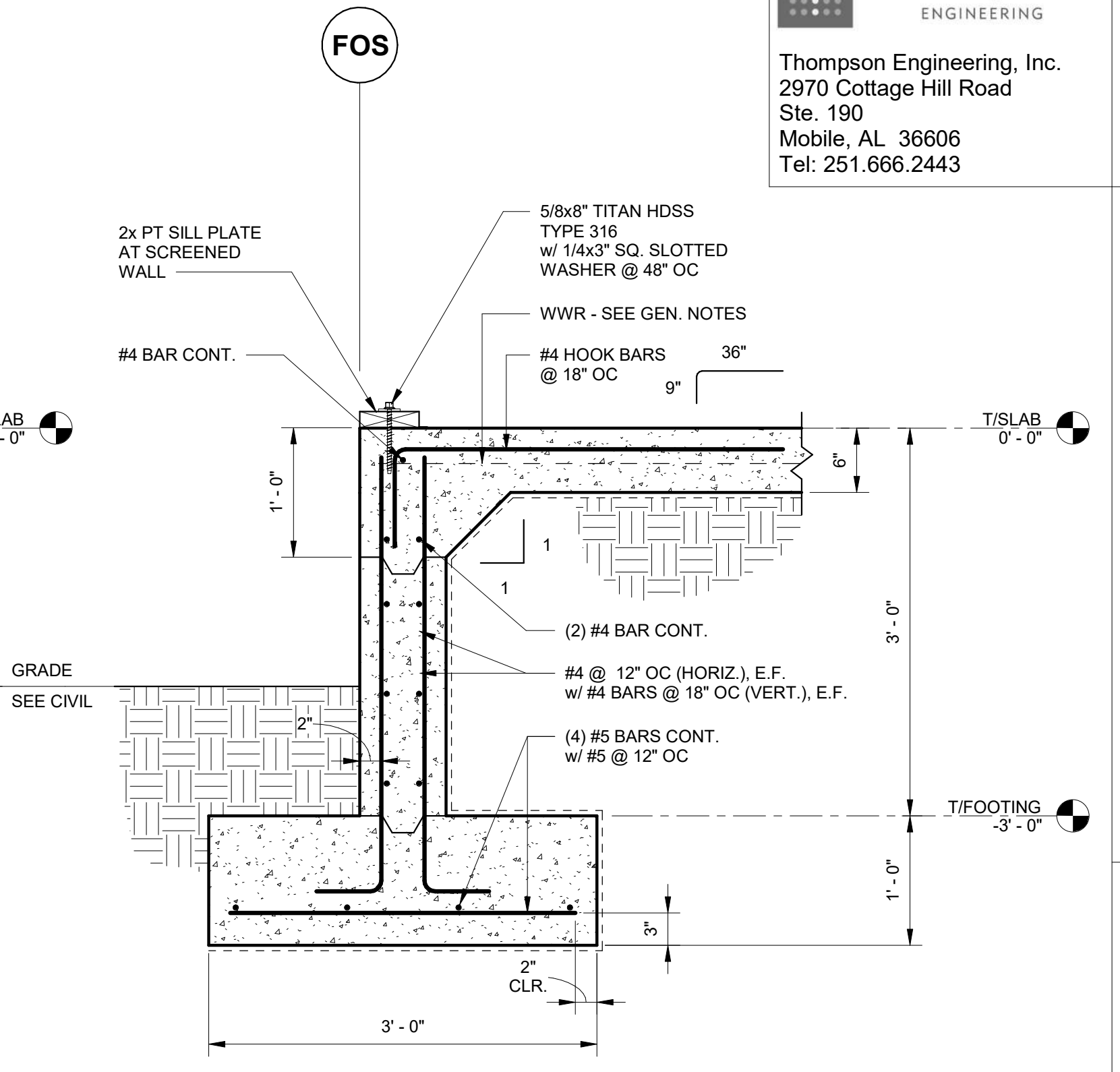
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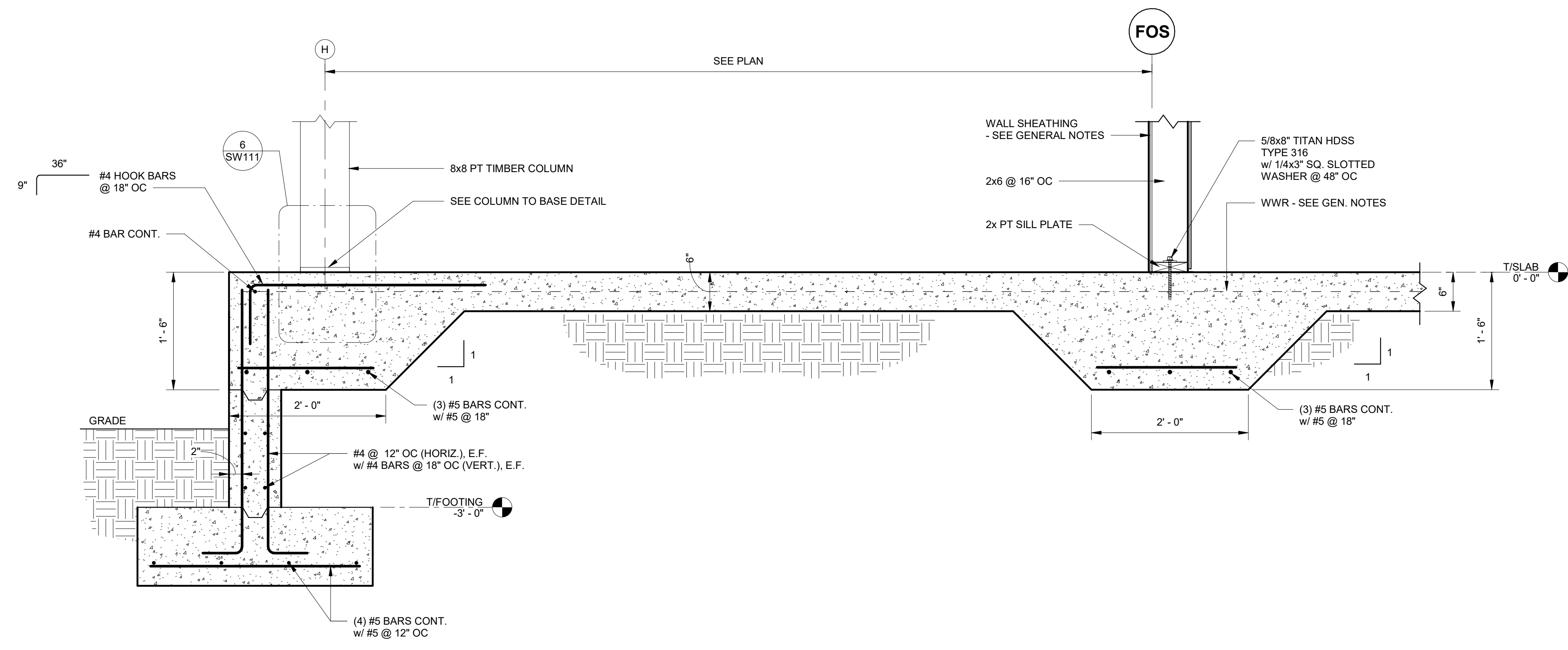
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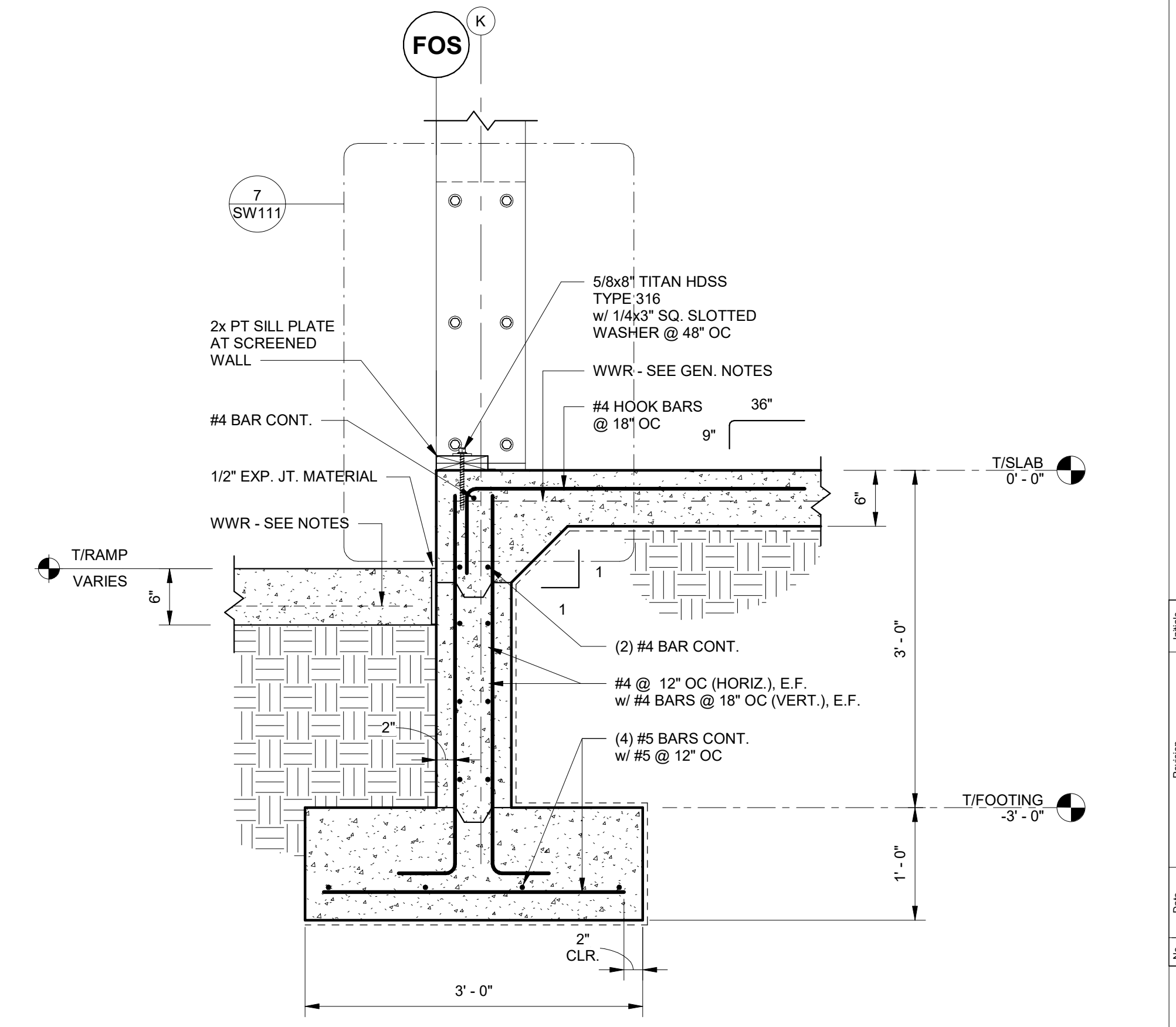
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SW110 SCALE: 1" = 1'-0"



3 SECTION
SW110 SCALE: 1" = 1'-0"



4 SECTION
SW110 SCALE: 1" = 1'-0"



5 SECTION
SW110 SCALE: 1" = 1'-0"

Revision	Date	By	Check

JOB
20-1101-0049

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

SHEET NAME
SLAB AND FOUNDATION SECTIONS

SHEET NO.
SW110



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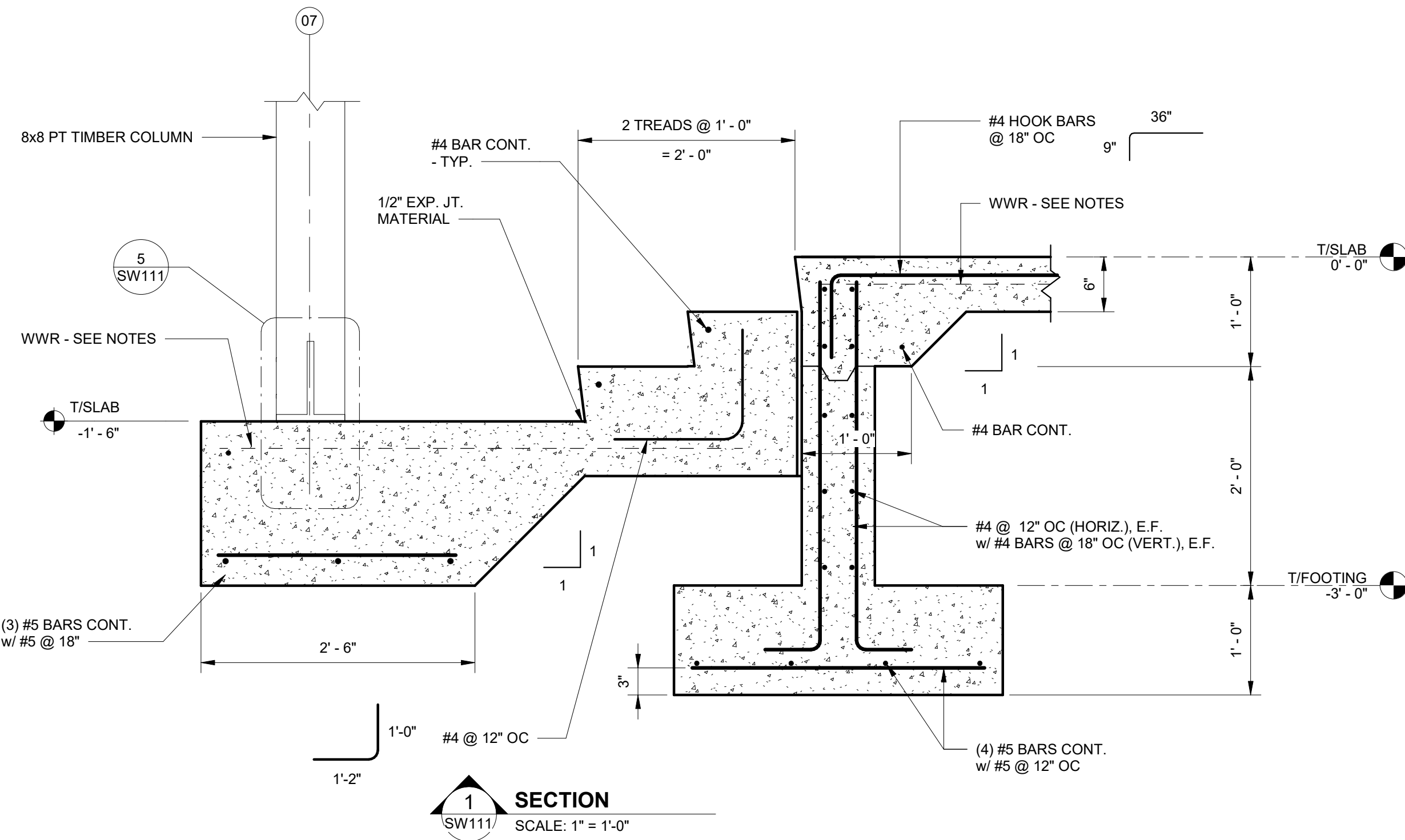
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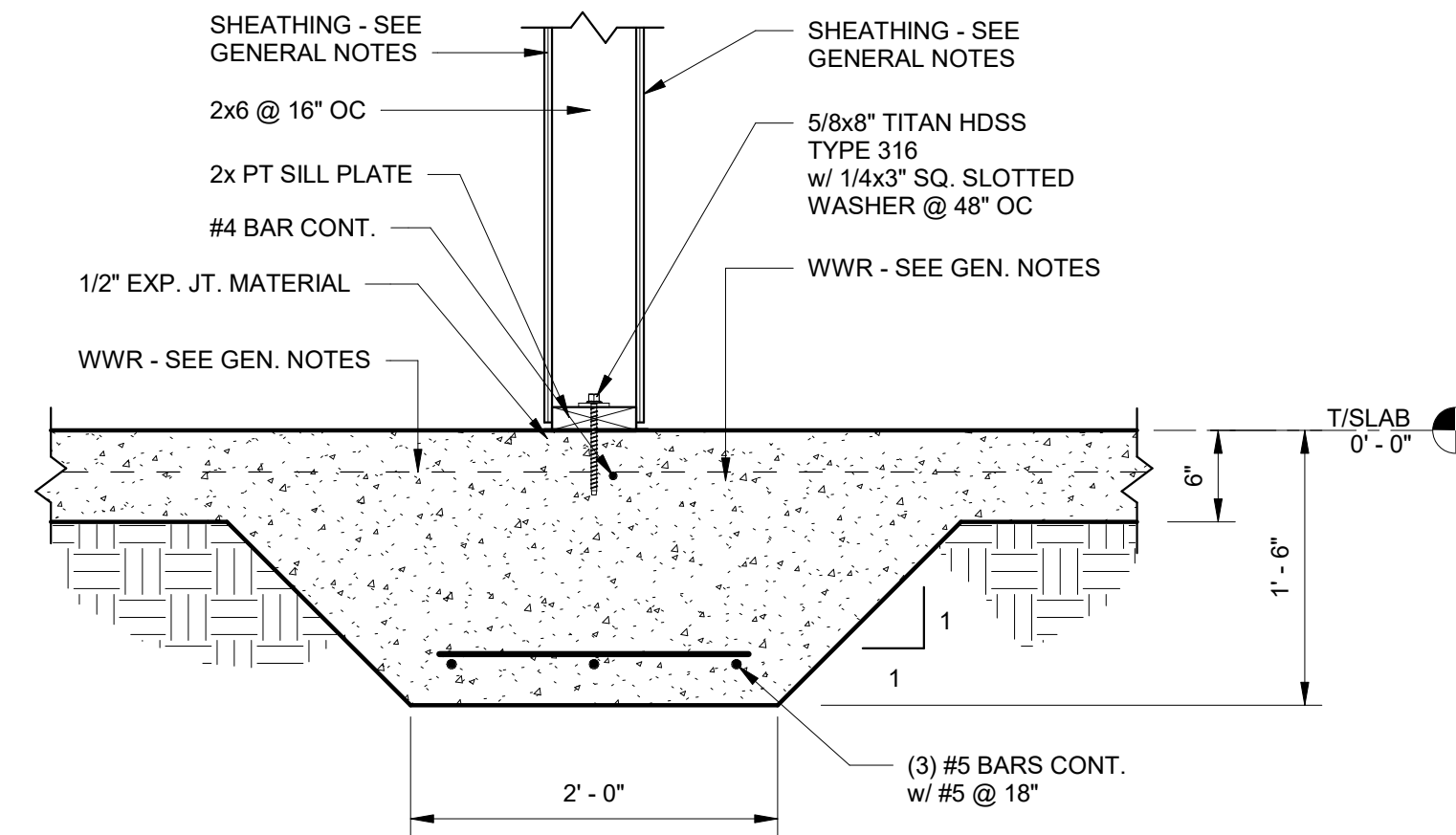
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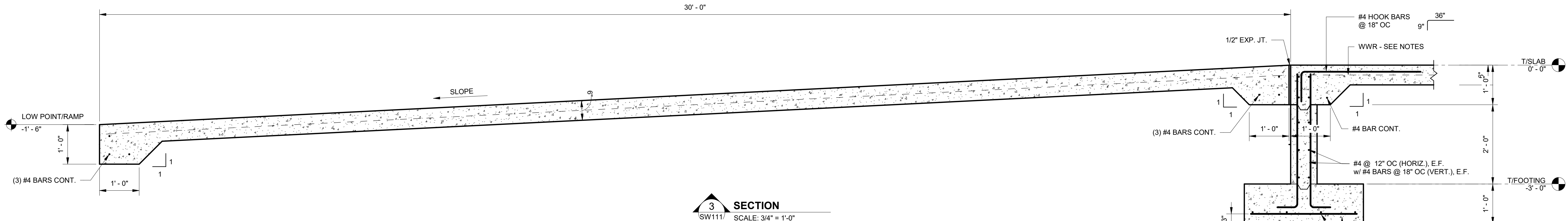
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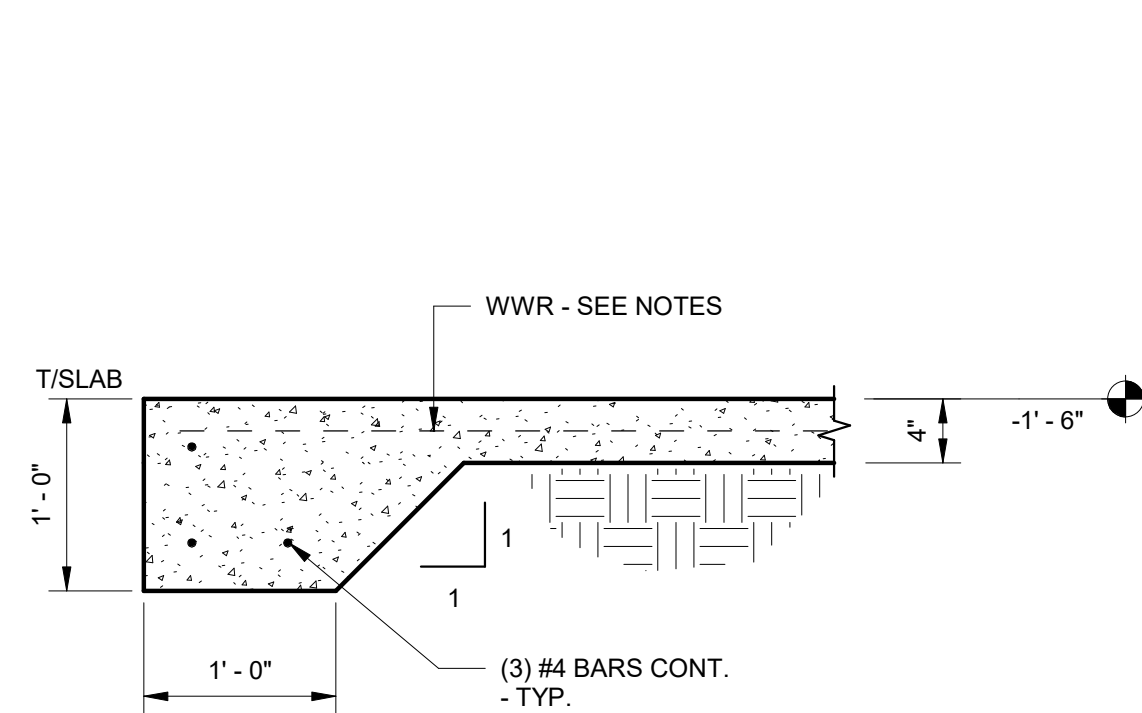
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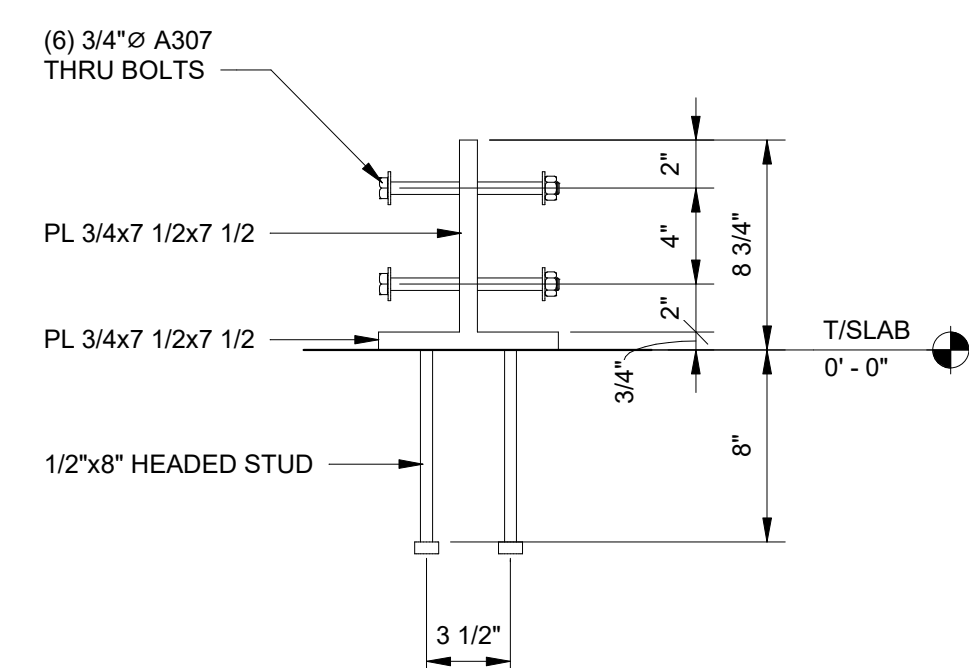
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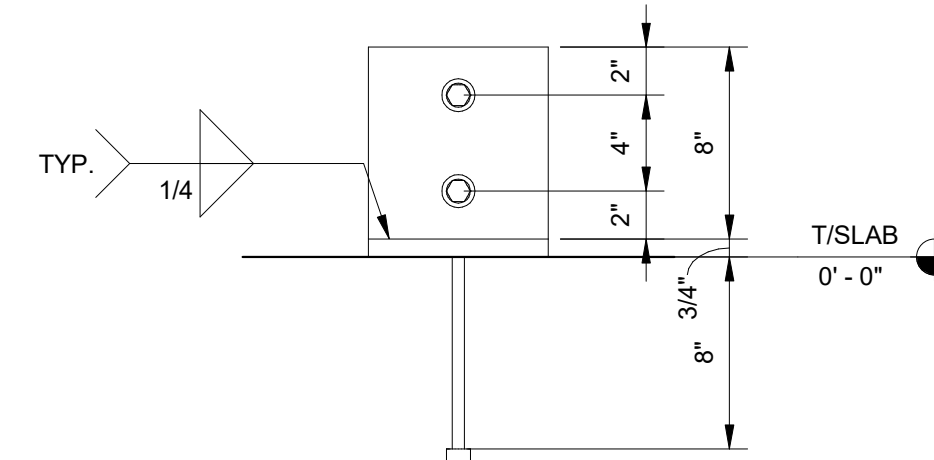
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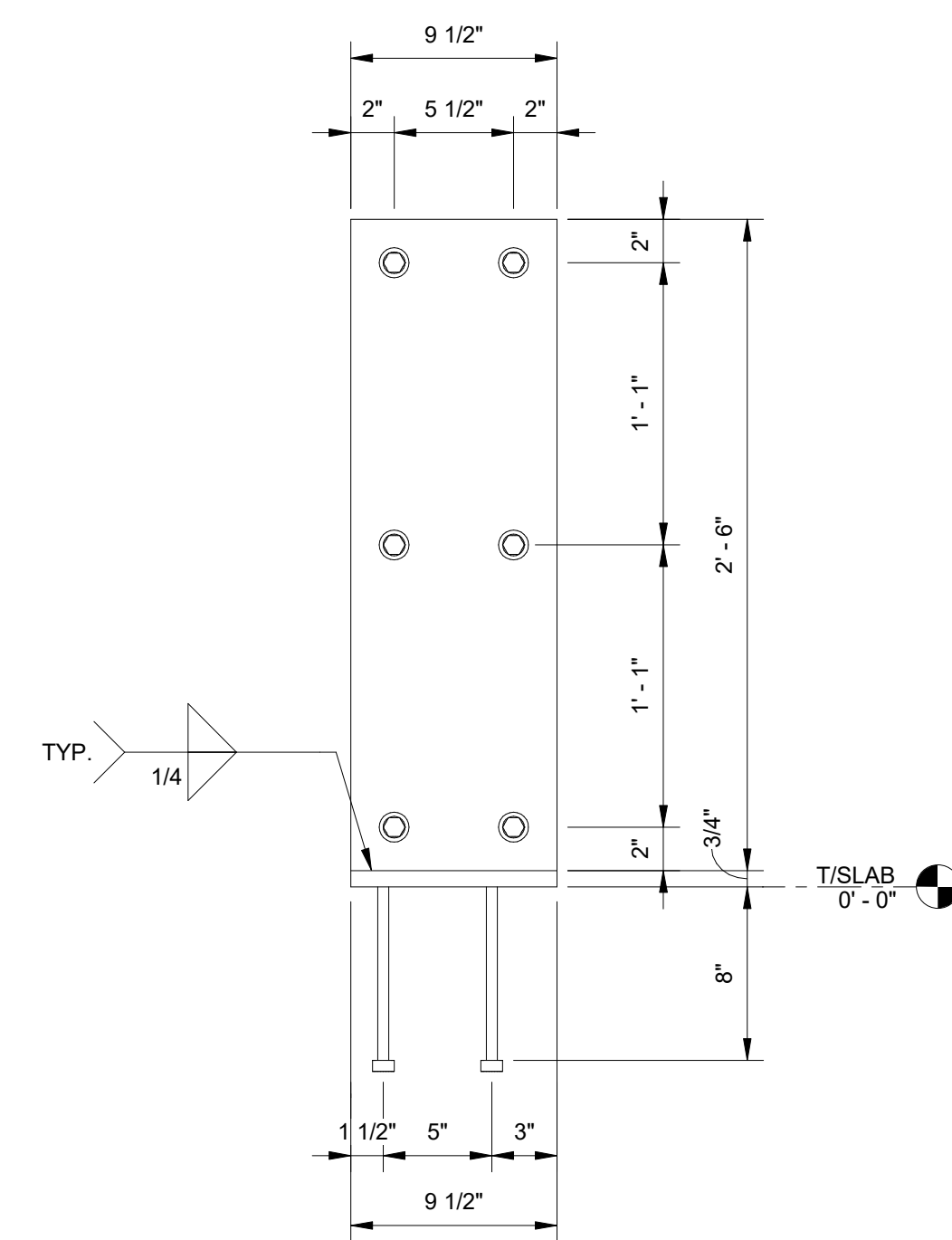
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SW111 SCALE: 1" = 1'-0"



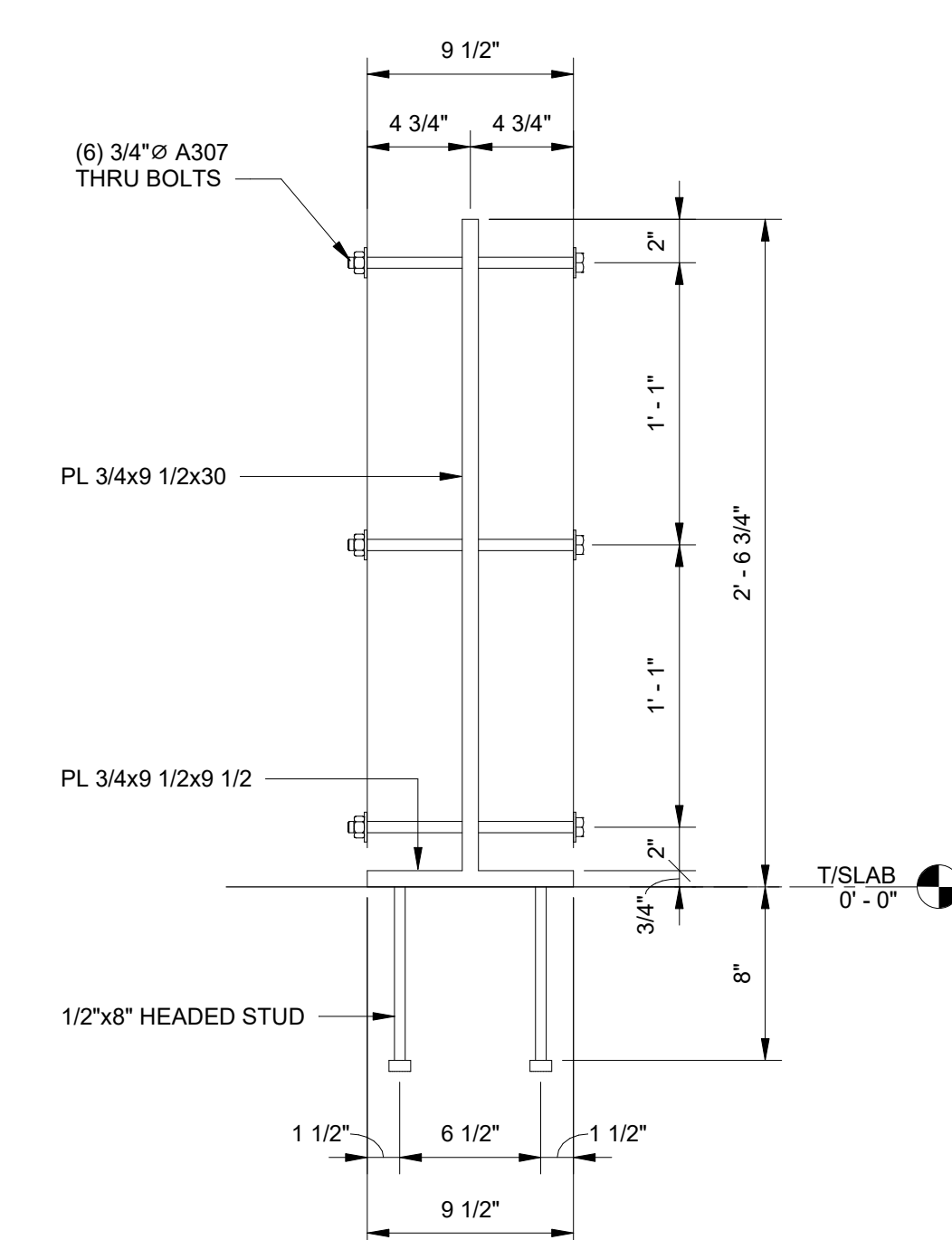
5 DETAIL
SW111 SCALE: 1 1/2" = 1'-0"



6 DETAIL
SW111 SCALE: 1 1/2" = 1'-0"



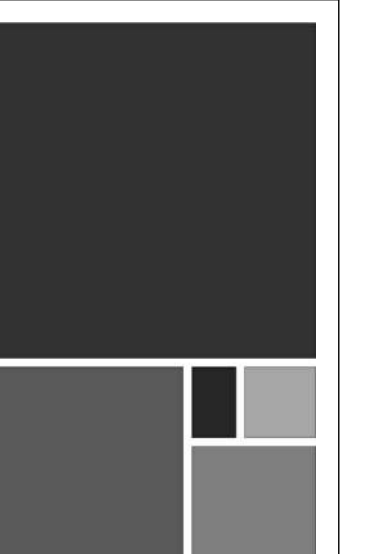
7 DETAIL
SW111 SCALE: 1 1/2" = 1'-0"



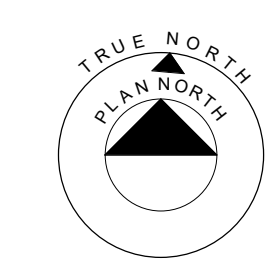
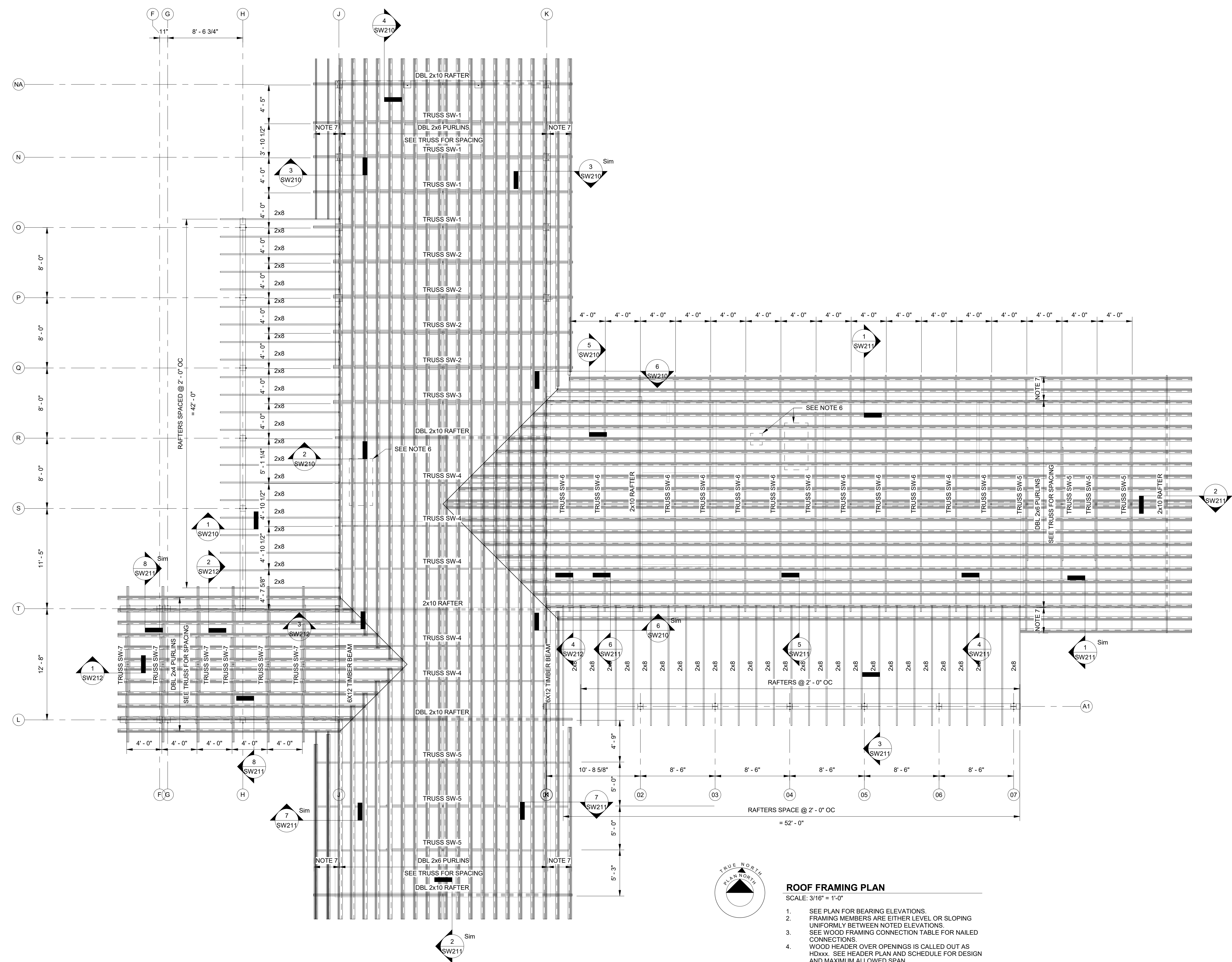
8 DETAIL
SW111 SCALE: 1 1/2" = 1'-0"

No.	Date	Revision	Description

JOB	20-1101-0049
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	SLAB AND FOUNDATION SECTIONS
SHEET NO.	SW111



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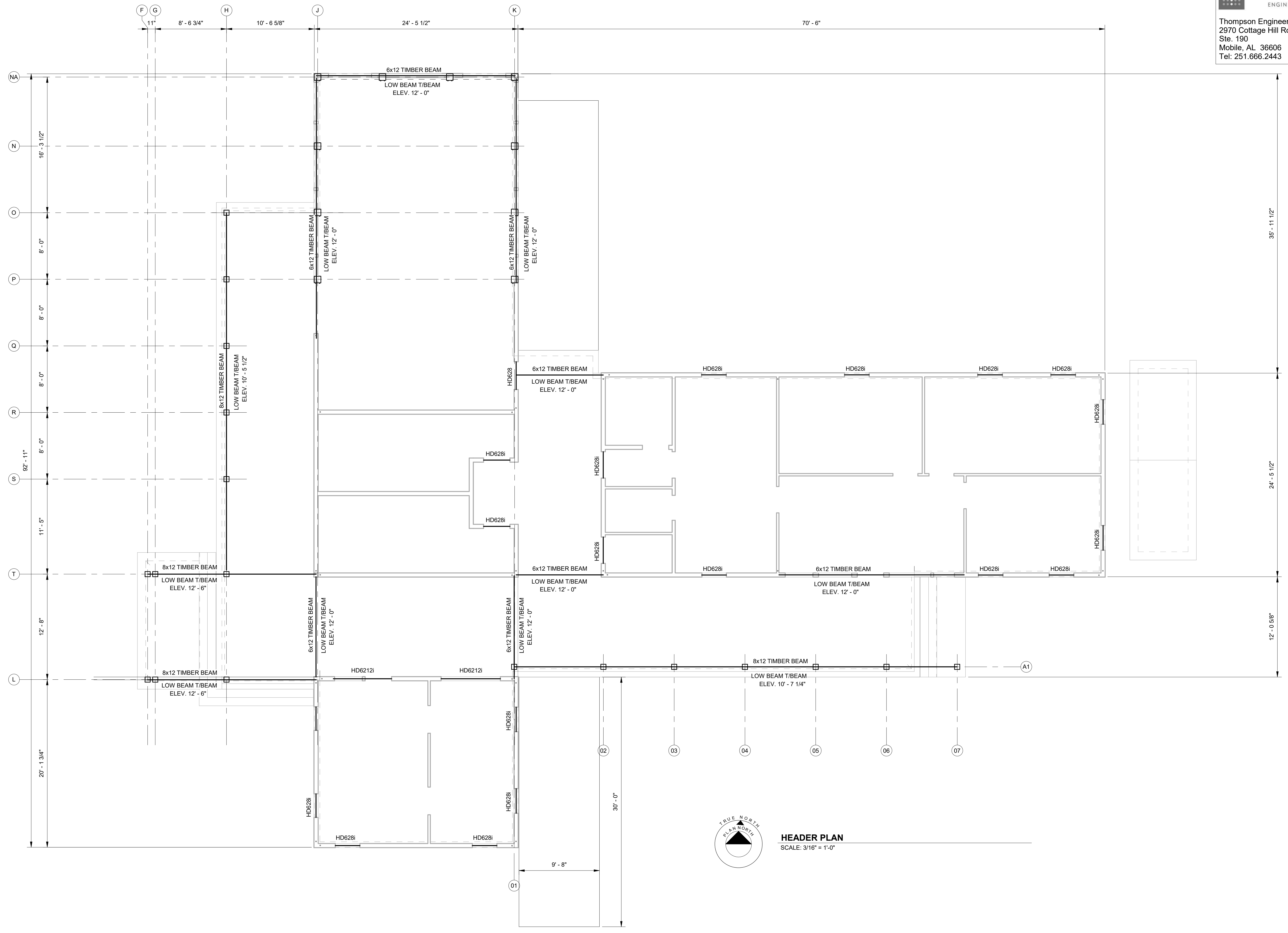
ROOF FRAMING PLAN
 SCALE: 3/16" = 1'-0"

- SEE PLAN FOR BEARING ELEVATIONS. FRAMING MEMBERS ARE EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.
- SEE WOOD FRAMING CONNECTION TABLE FOR NAILED CONNECTIONS.
- WOOD HEADER OVER OPENINGS IS CALLED OUT AS HDxxx. SEE HEADER PLAN AND SCHEDULE FOR DESIGN AND MAXIMUM ALLOWED SPAN.
- TRUSSES SW-4, SW-5, SW-6 ARE PREFABRICATED PLATE CONNECTED TRUSSES TO BE DESIGNED BY THE TRUSS PROVIDER.
- MECHANICAL EQUIPMENT LOCATED IN ATTIC SPACE. TRUSS PROVIDER COORDINATE OPEN SPACE, LOAD, AND ACCESS HATCH WITH ARCHITECTURAL AND MECHANICAL.
- DBL 2x4 PURLINS. SEE TRUSS ELEVATION FOR SPACING.

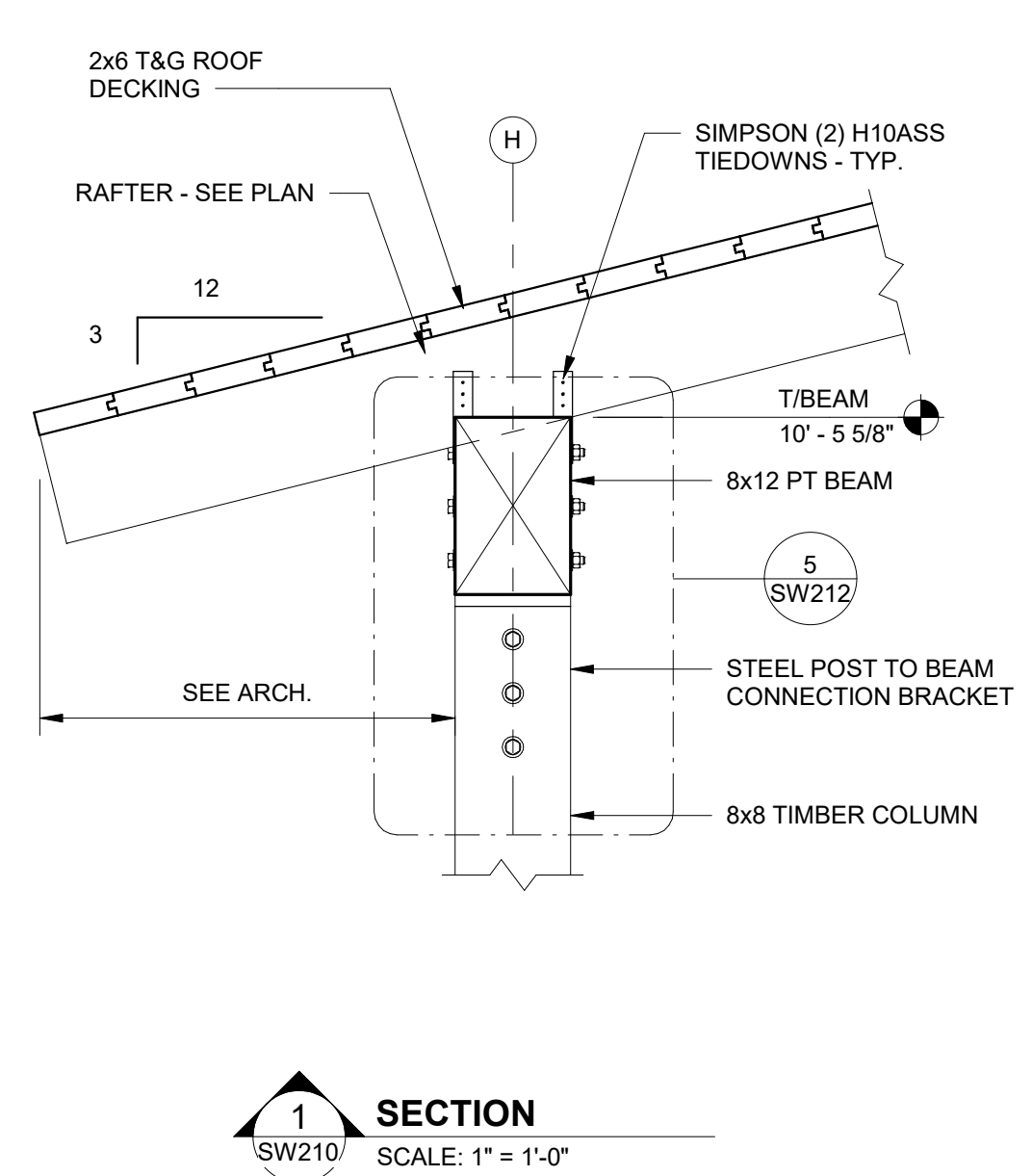
Revision	Date	By	Job
			20-1101-0049
			PROJECT STATUS
			CONFORMANCE SET
			DATE
			MARCH 24, 2023
			SHEET NAME
			ROOF FRAMING PLAN
			SHEET NO.
			SW200

No.	
Date	
Revision	
Drawn	
Checked	

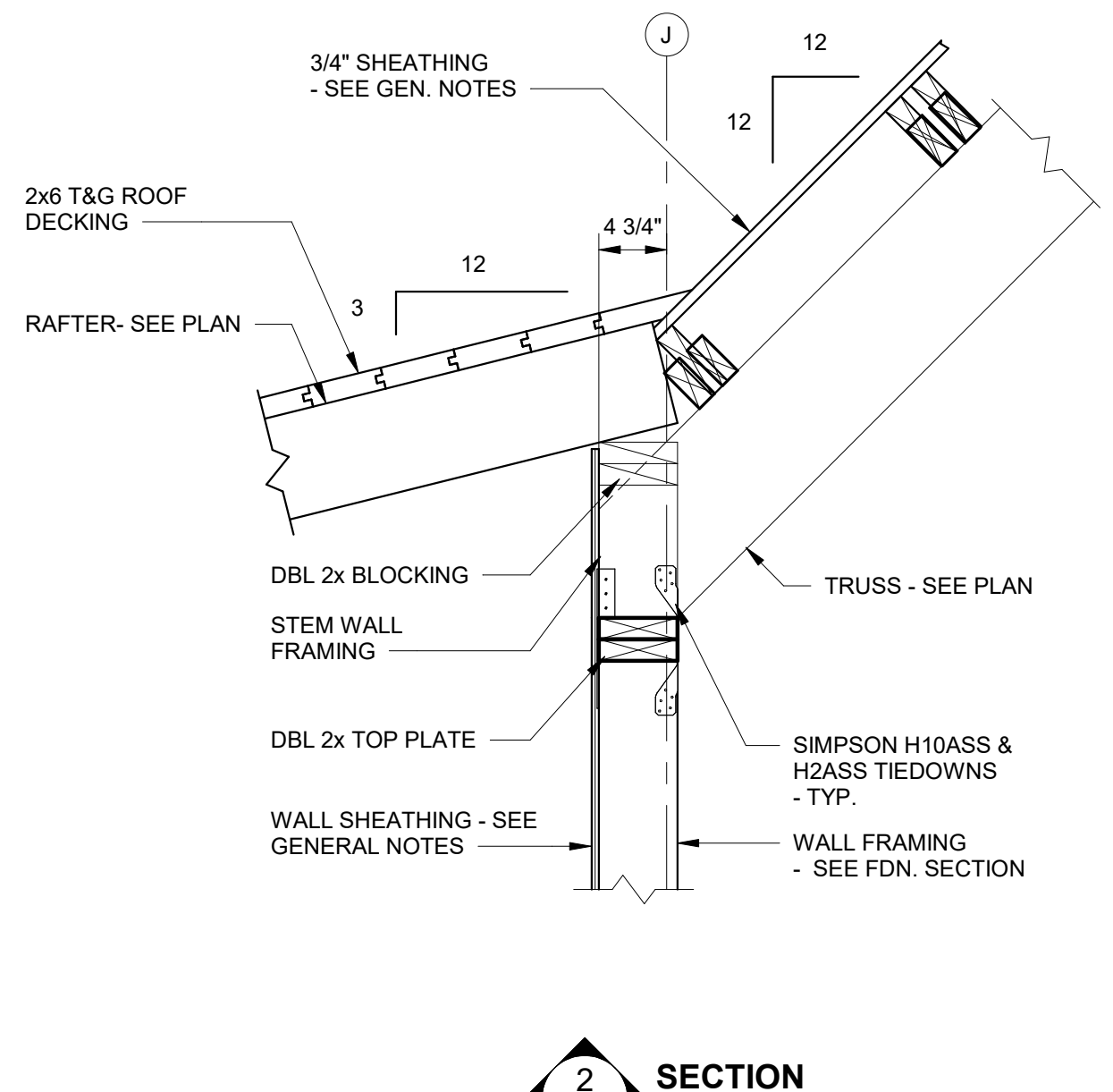
JOB	20-1101-0049
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	HEADER PLAN
SHEET NO.	SW201



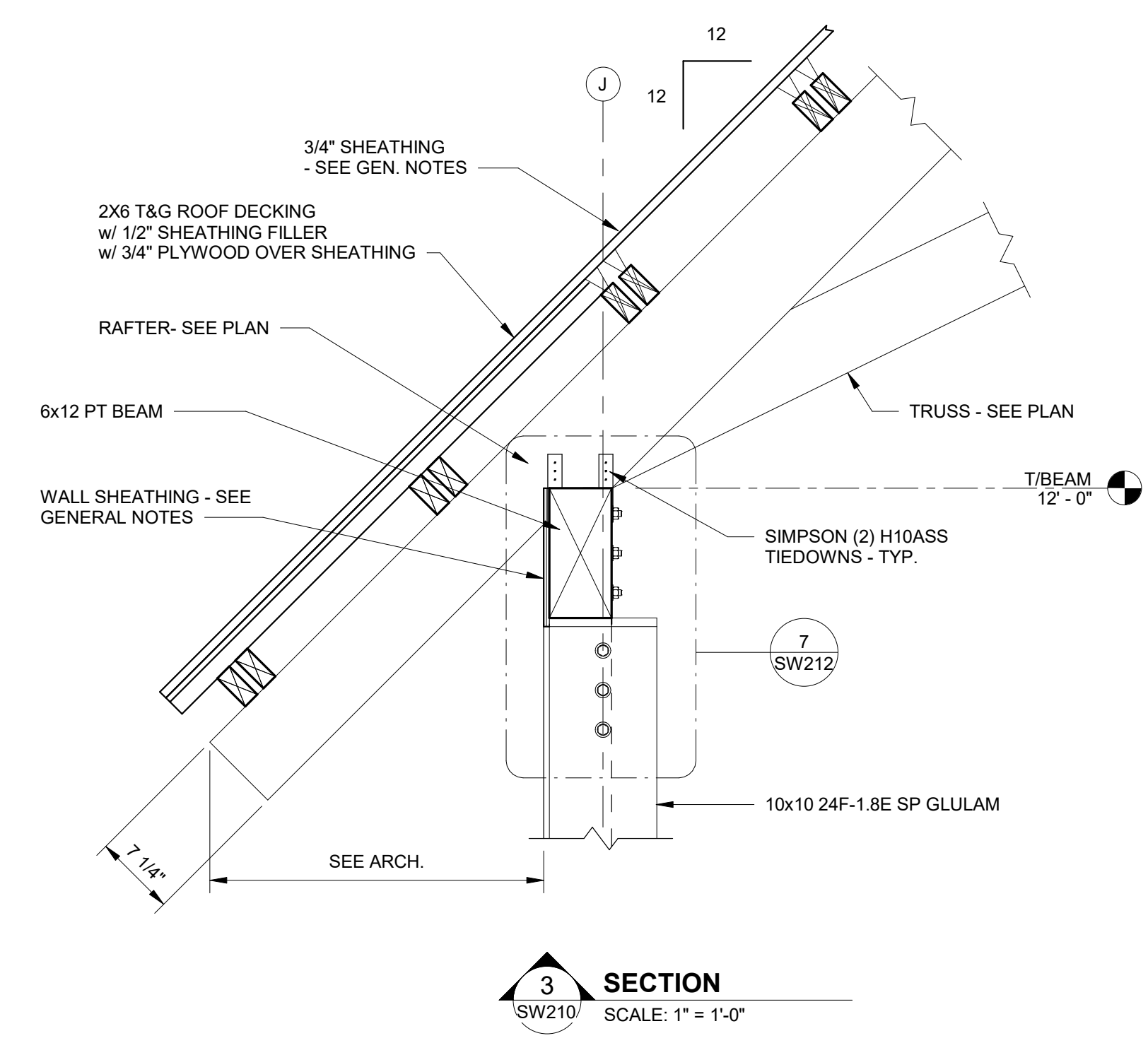
HEADER PLAN
SCALE: 3/16" = 1'-0"



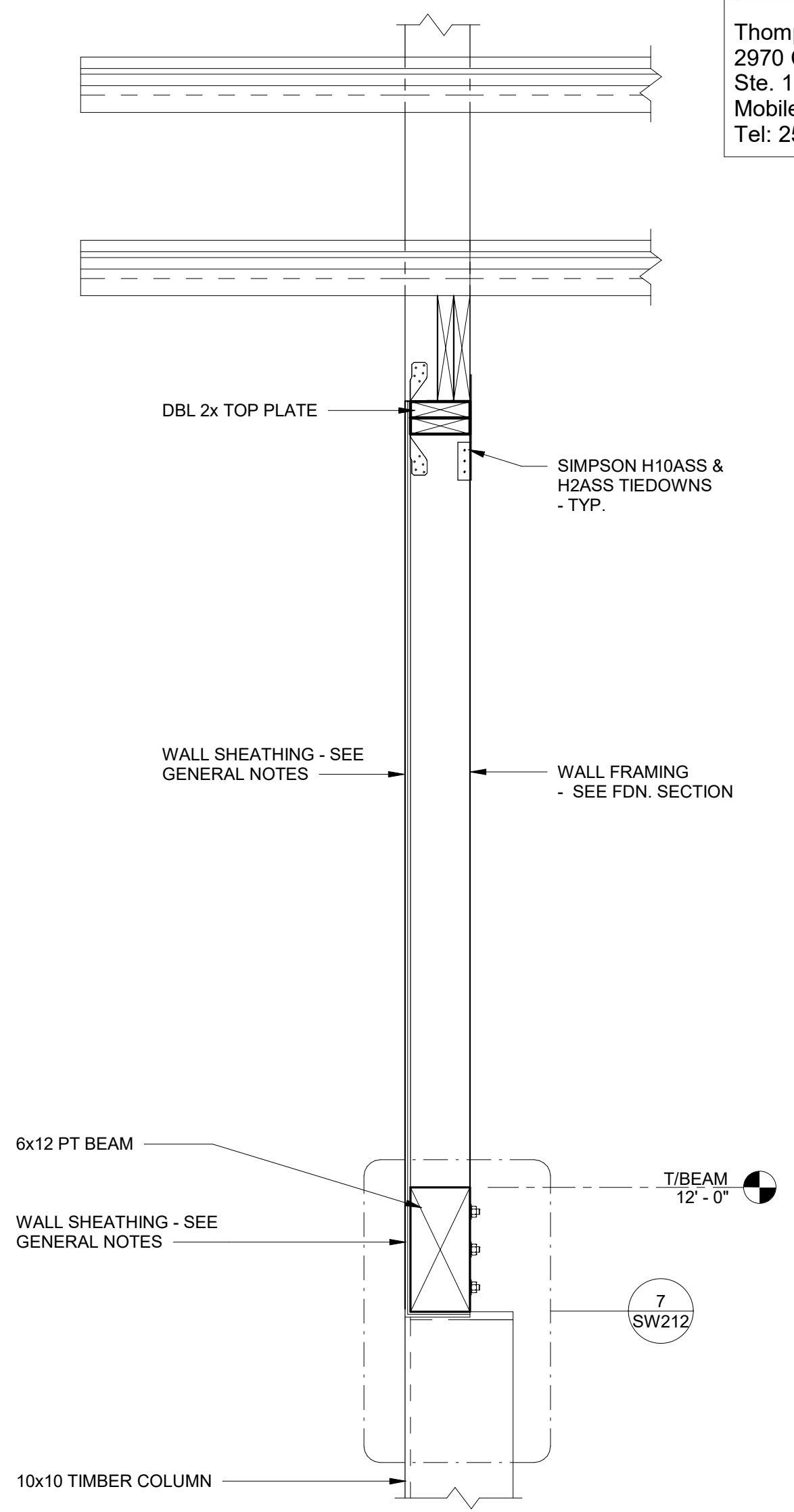
SECTION 1
SW210 SCALE: 1" = 1'-0"



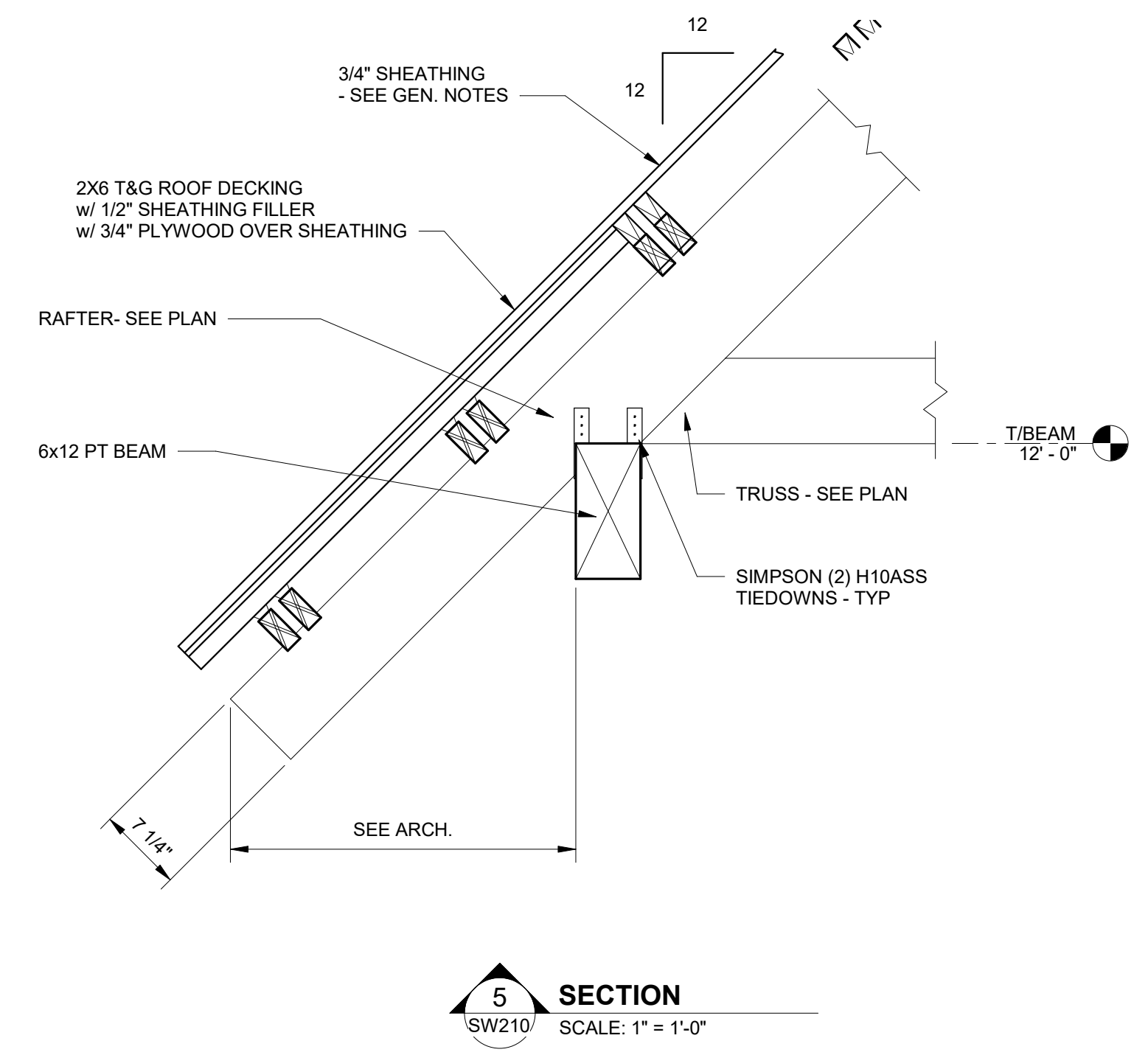
SECTION 2
SW210 SCALE: 1" = 1'-0"



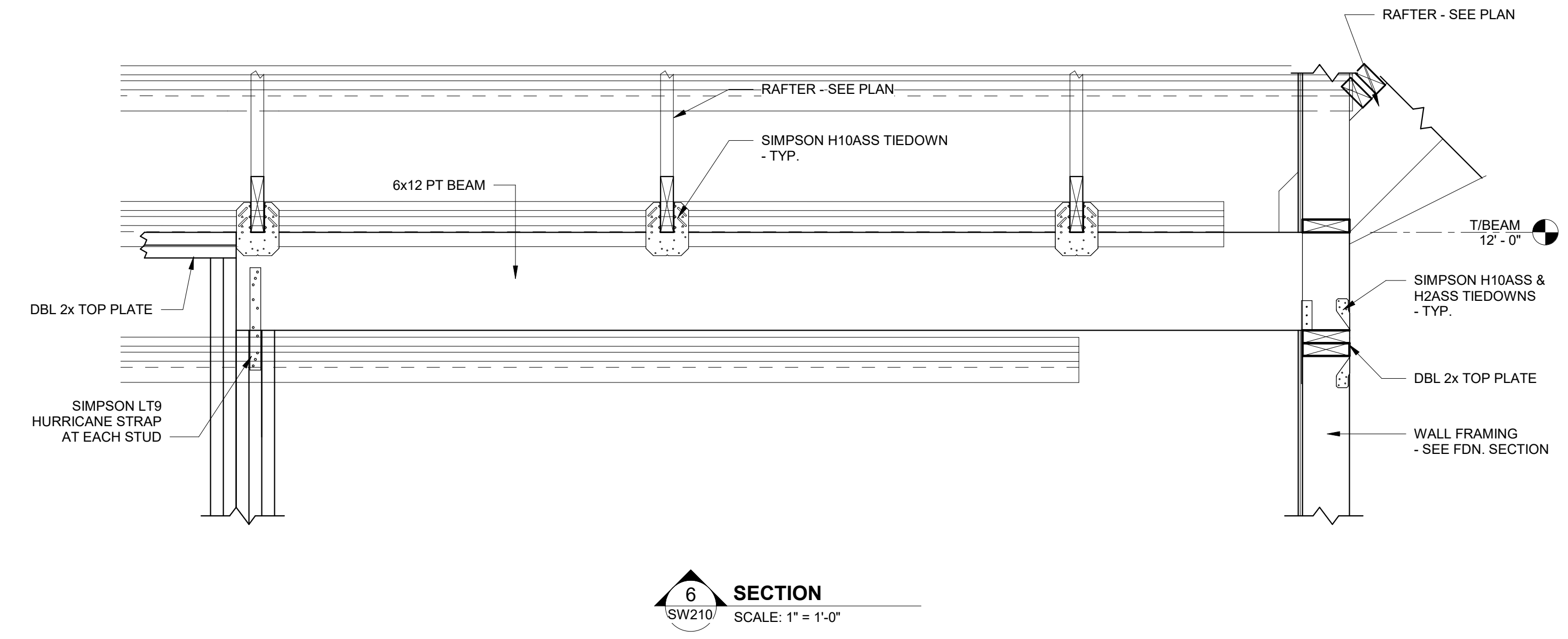
SECTION 3
SW210 SCALE: 1" = 1'-0"



SECTION 4
SW210 SCALE: 1" = 1'-0"



SECTION 5
SW210 SCALE: 1" = 1'-0"



SECTION 6
SW210 SCALE: 1" = 1'-0"

NO.	DATE	REVISION

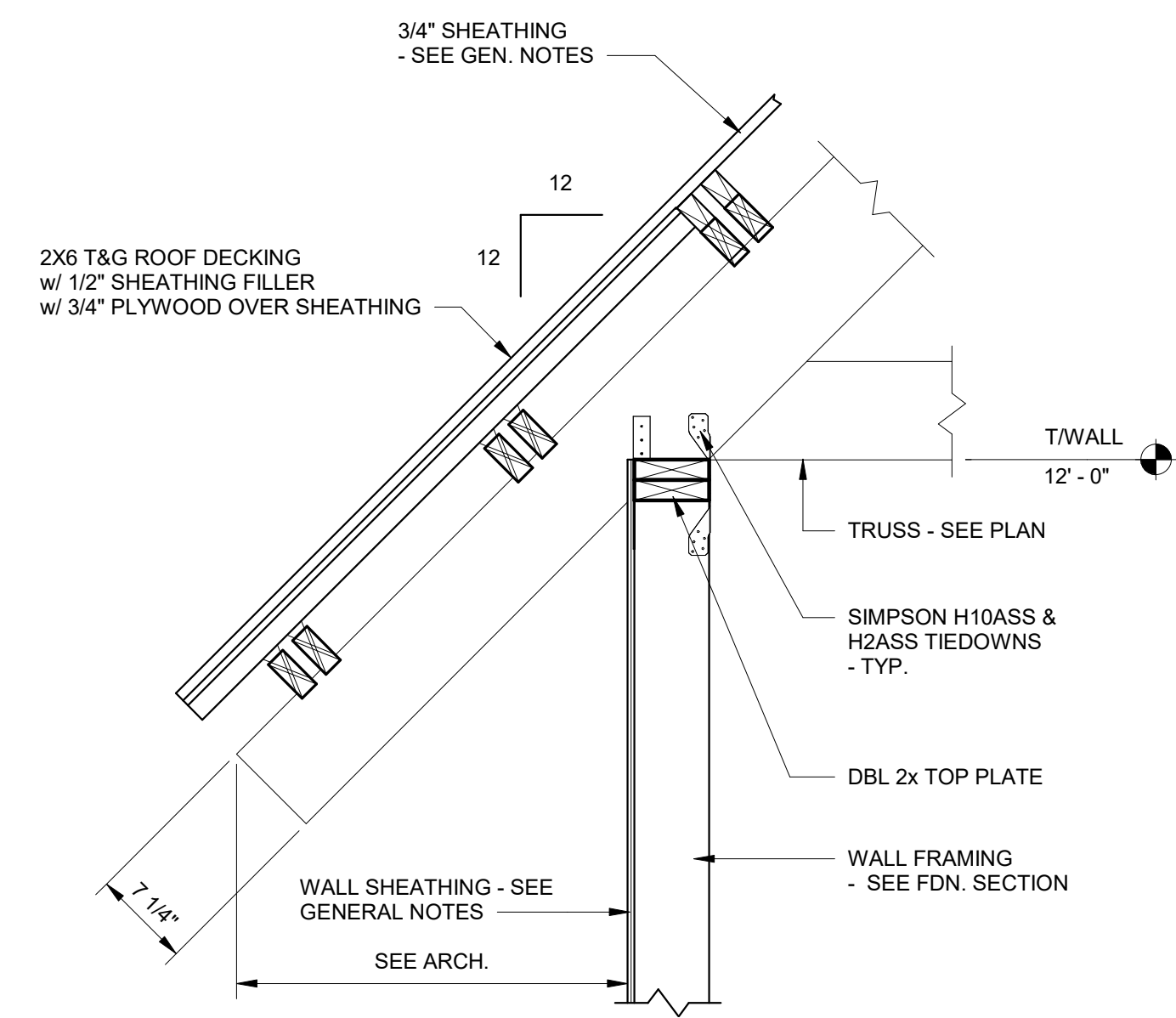
JOB
20-1101-0049

PROJECT STATUS
CONFORMANCE SET

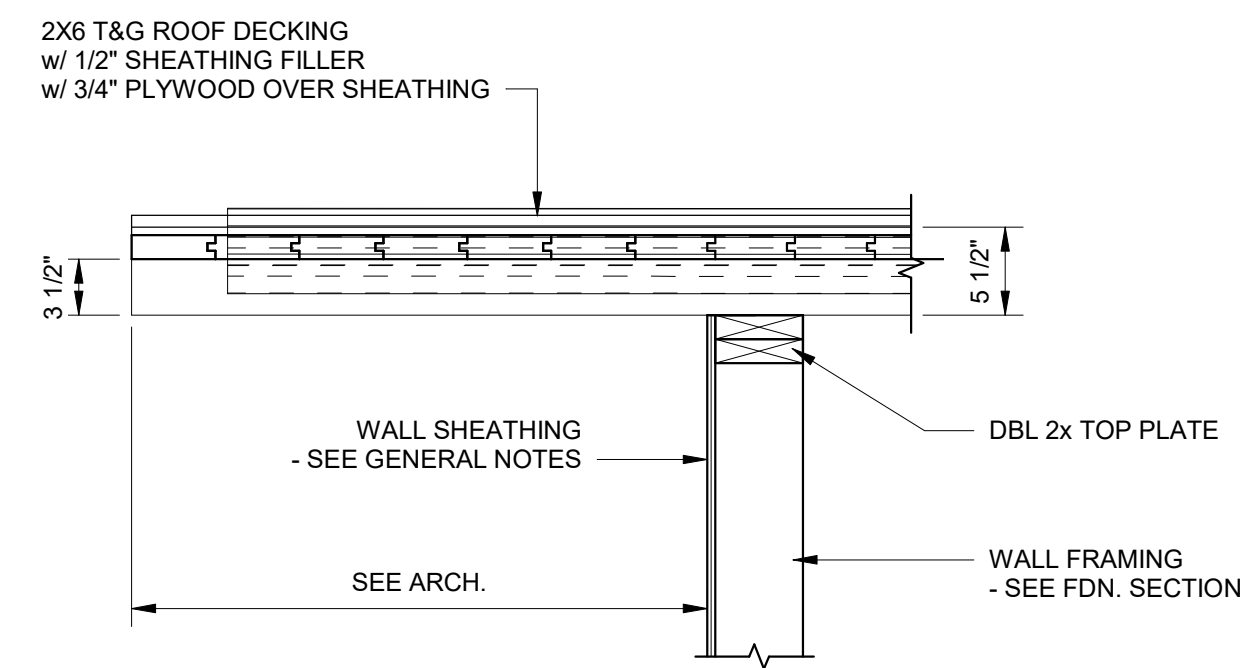
DATE
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SHEET NAME
ROOF FRAMING SECTIONS

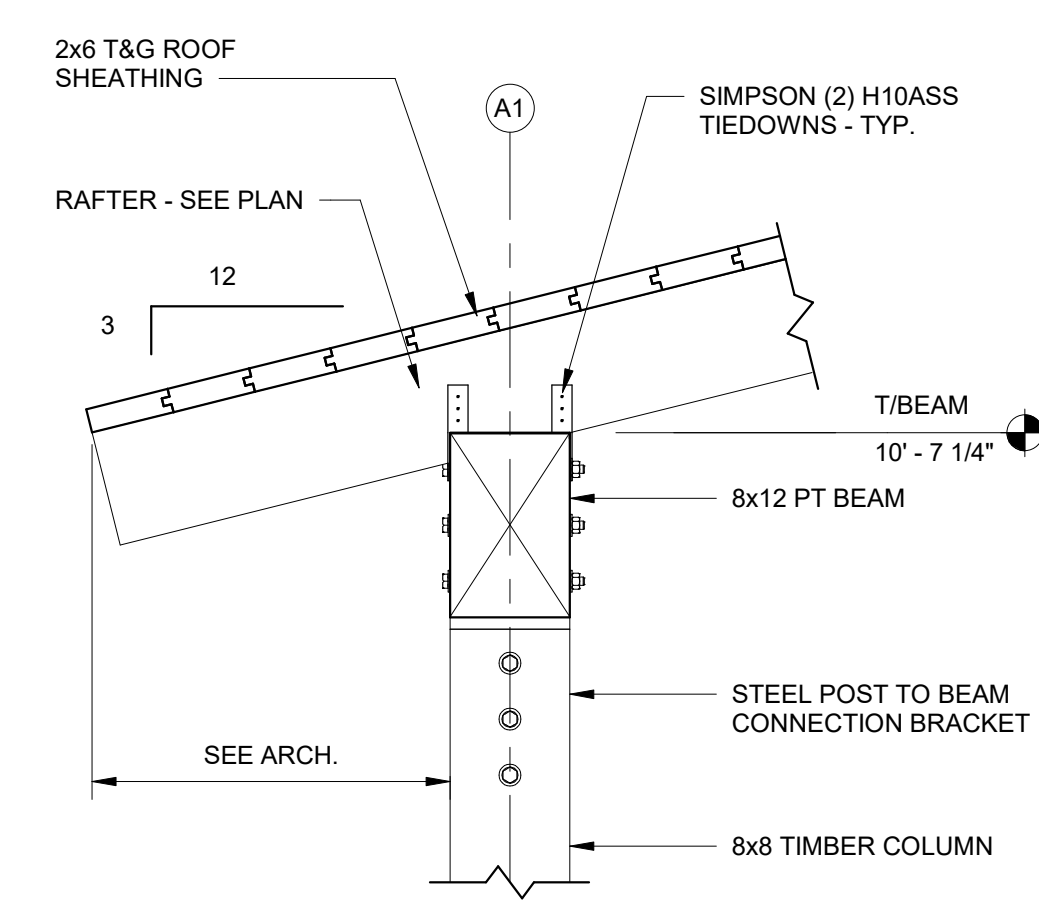
SHEET NO.
SW210



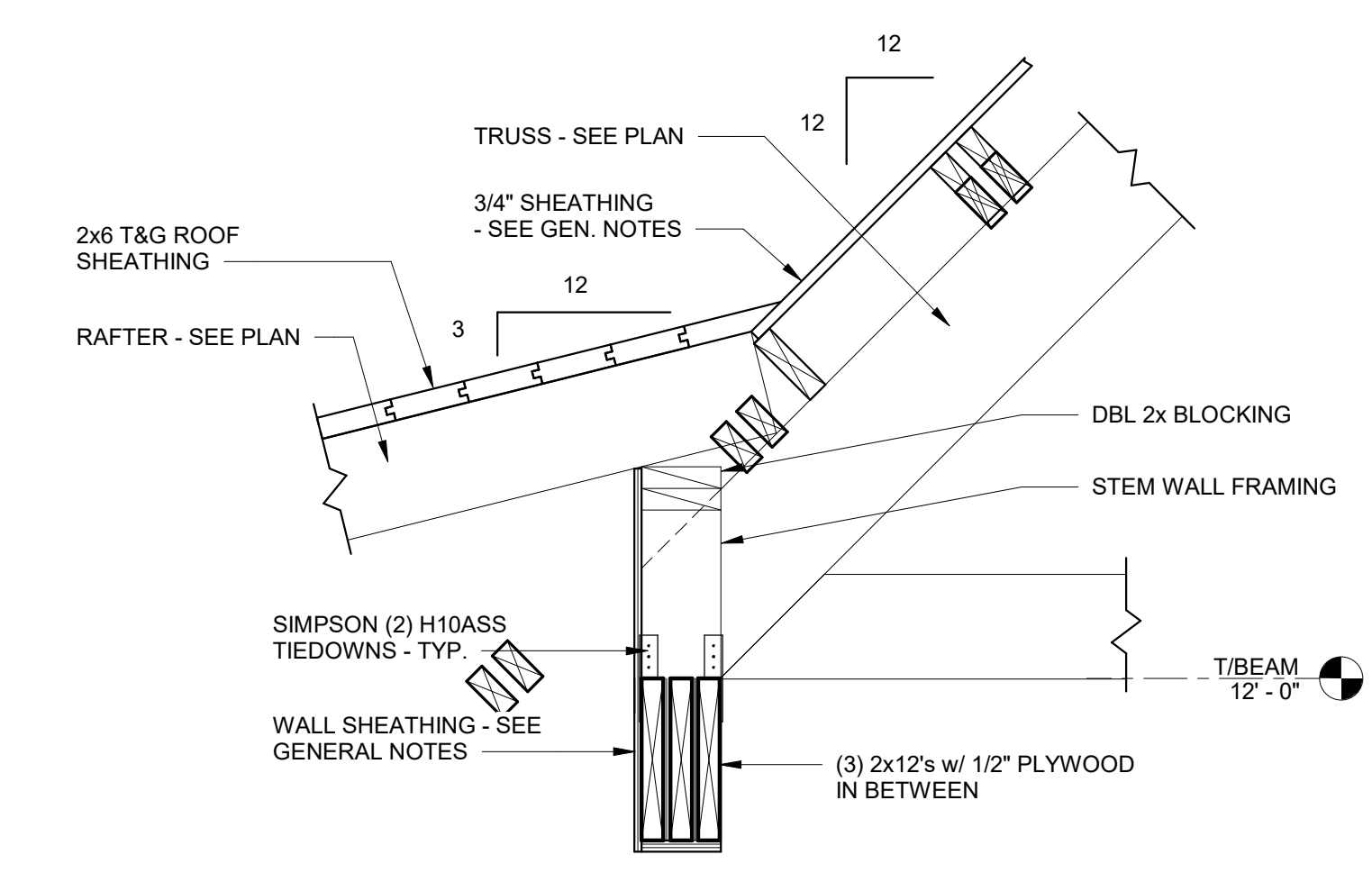
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SW211/ SCALE: 1" = 1'-0"



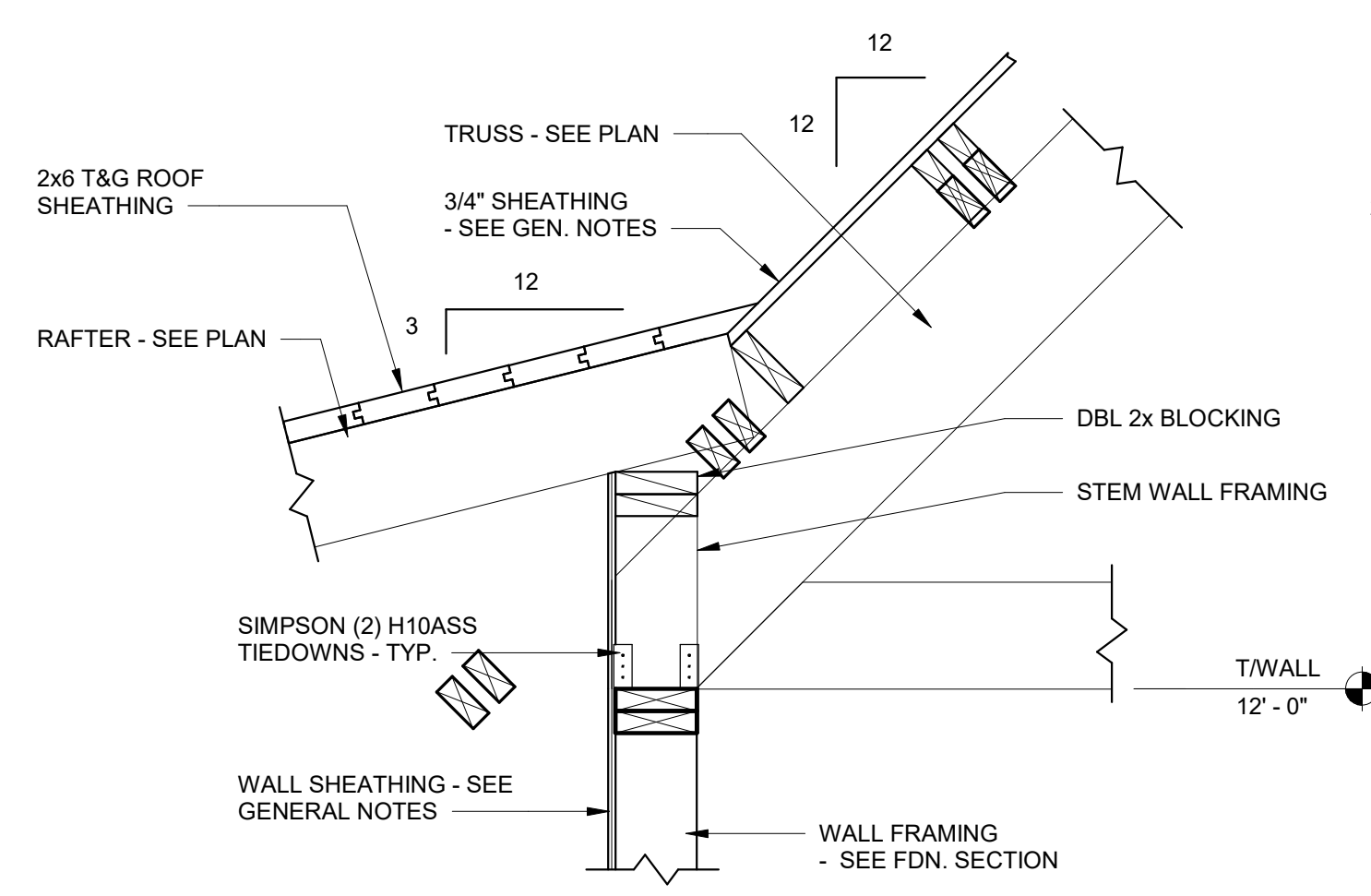
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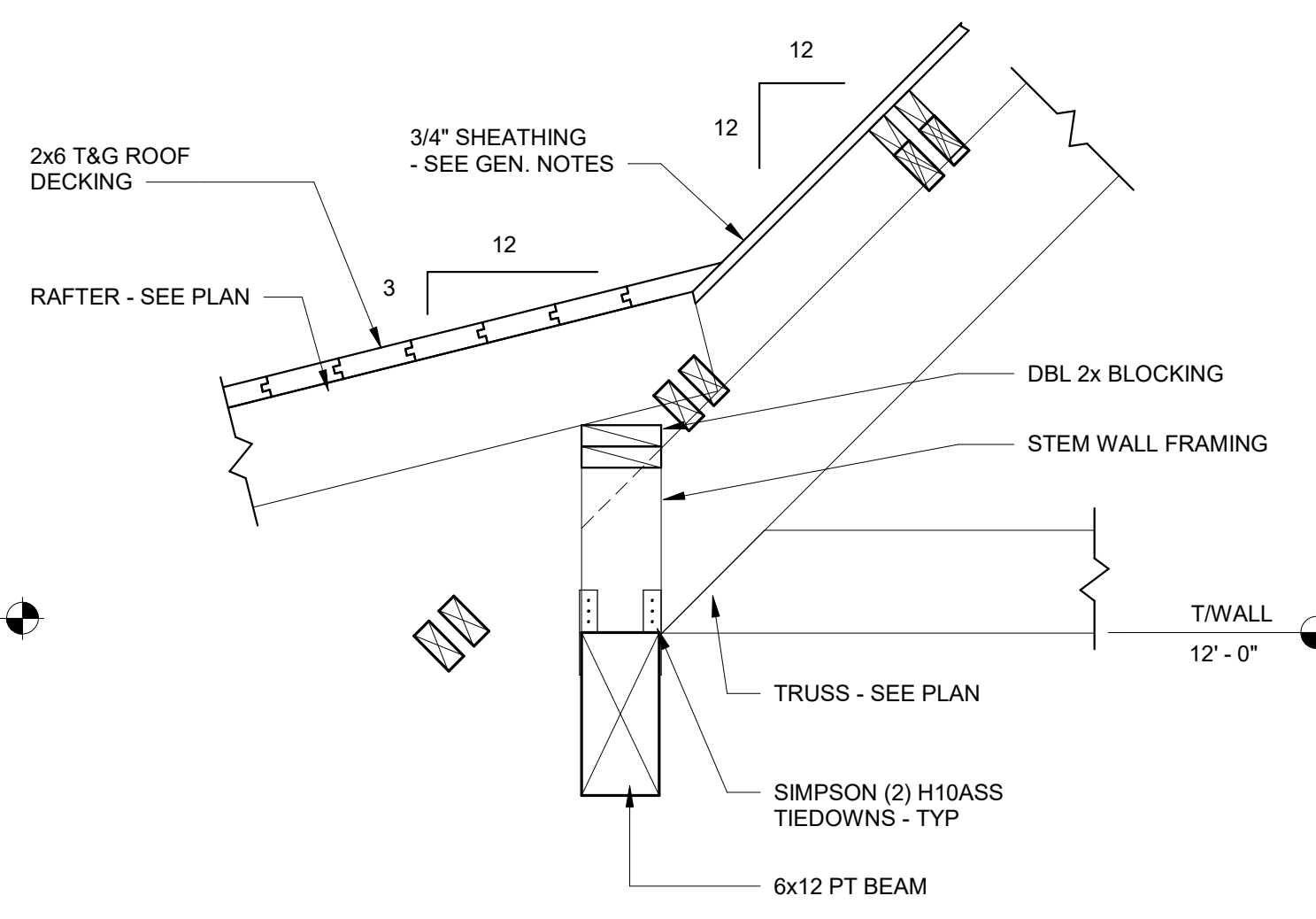
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SW211/ SCALE: 1" = 1'-0"



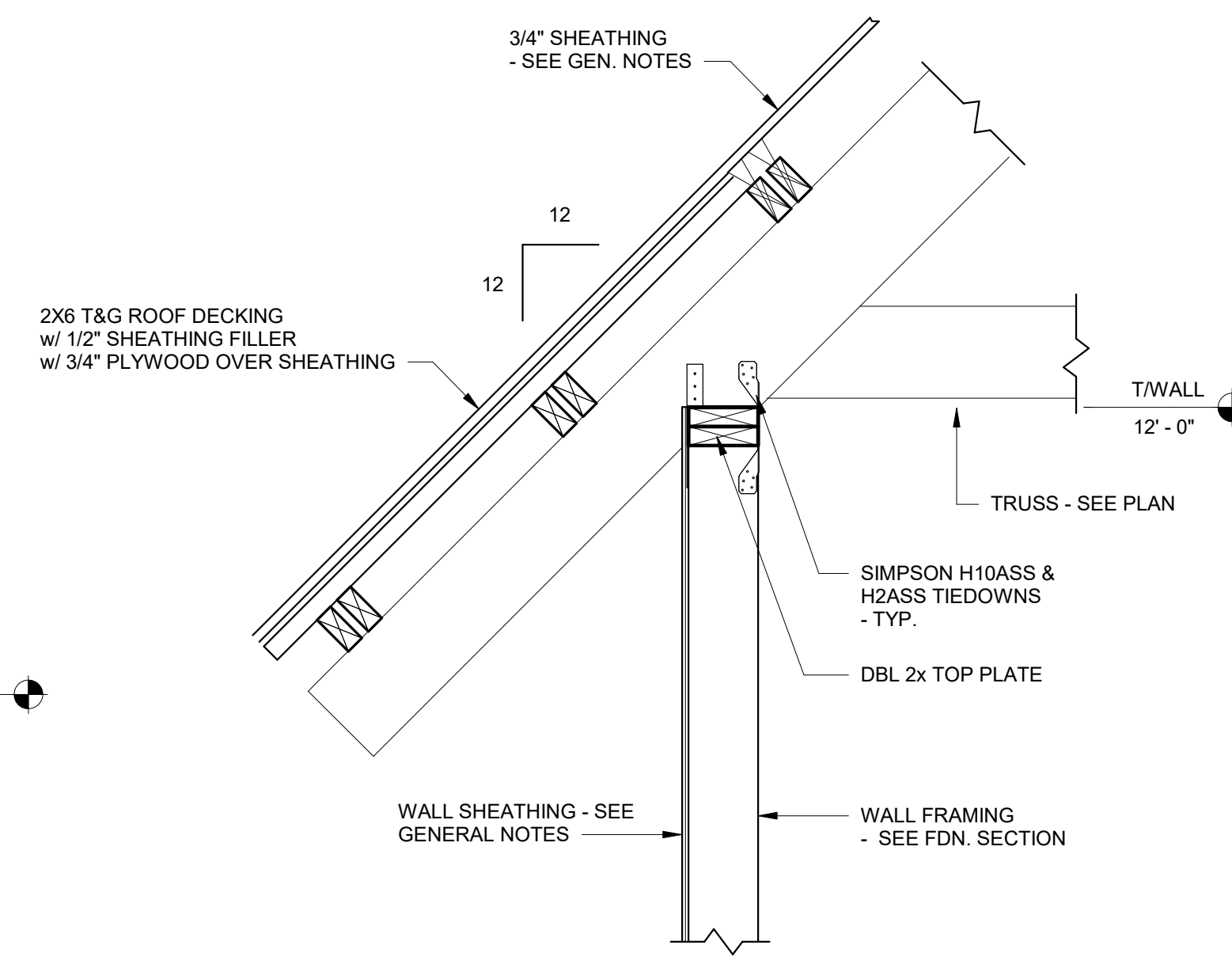
4 SECTION
SW211/ SCALE: 1" = 1'-0"



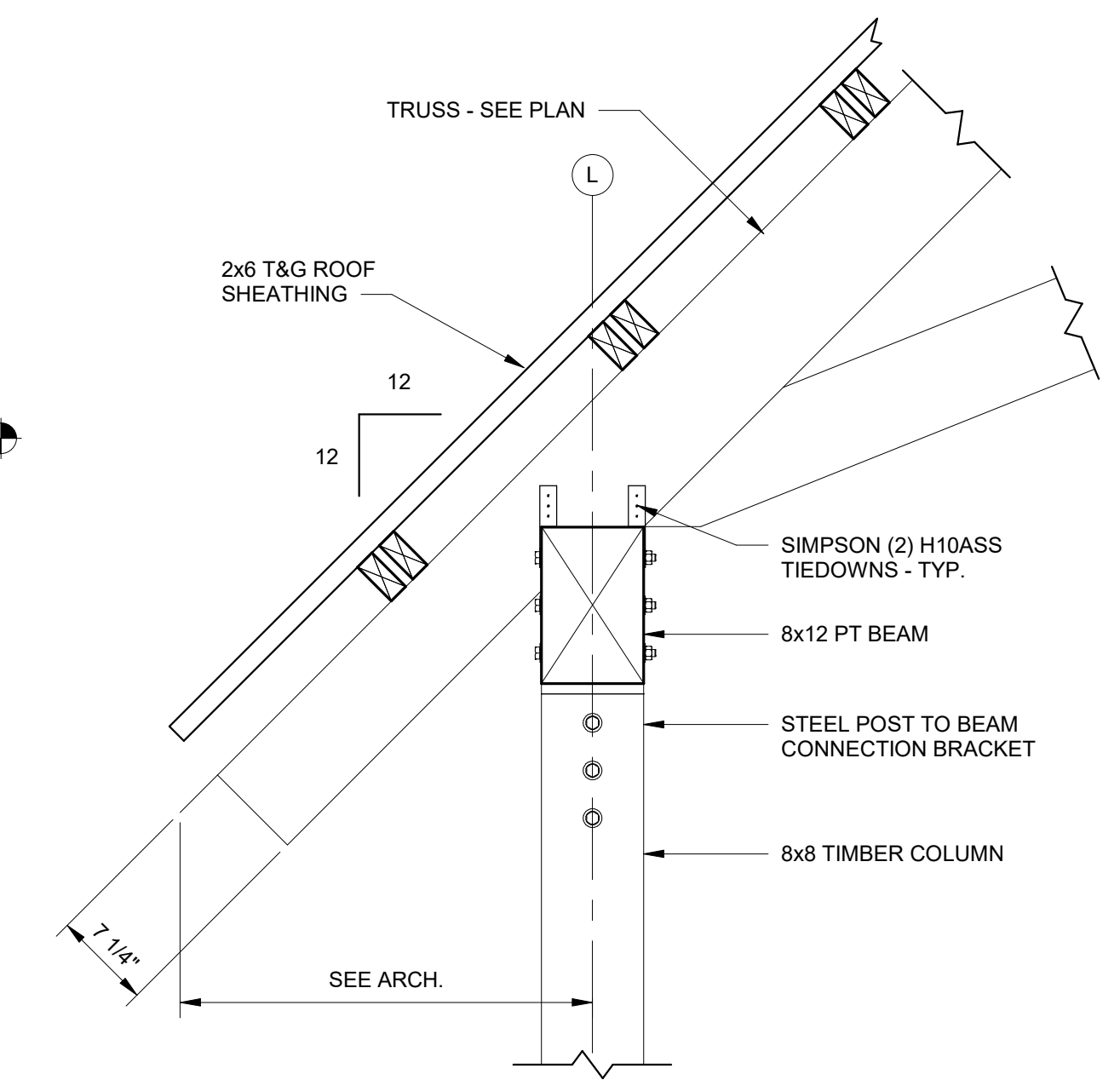
5 SECTION
SW211/ SCALE: 1" = 1'-0"



6 SECTION
SW211/ SCALE: 1" = 1'-0"



7 SECTION
SW211/ SCALE: 1" = 1'-0"



8 SECTION
SW211/ SCALE: 1" = 1'-0"

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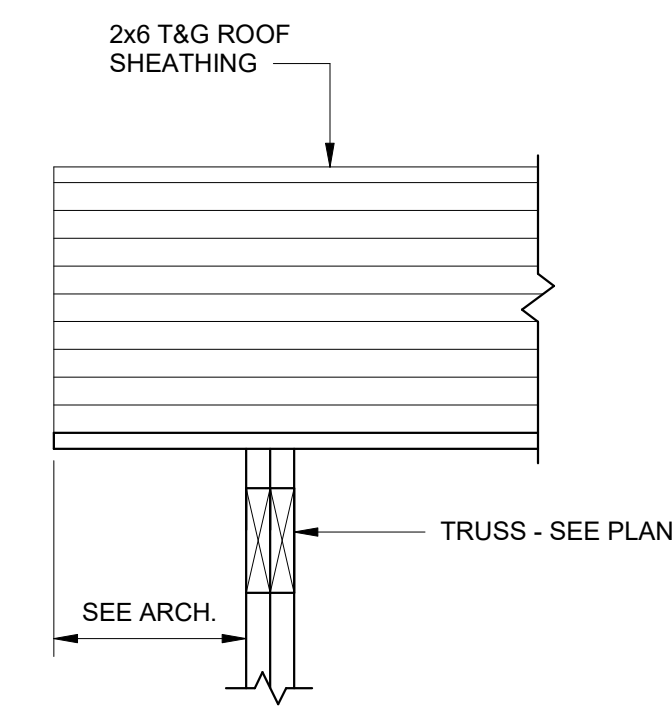
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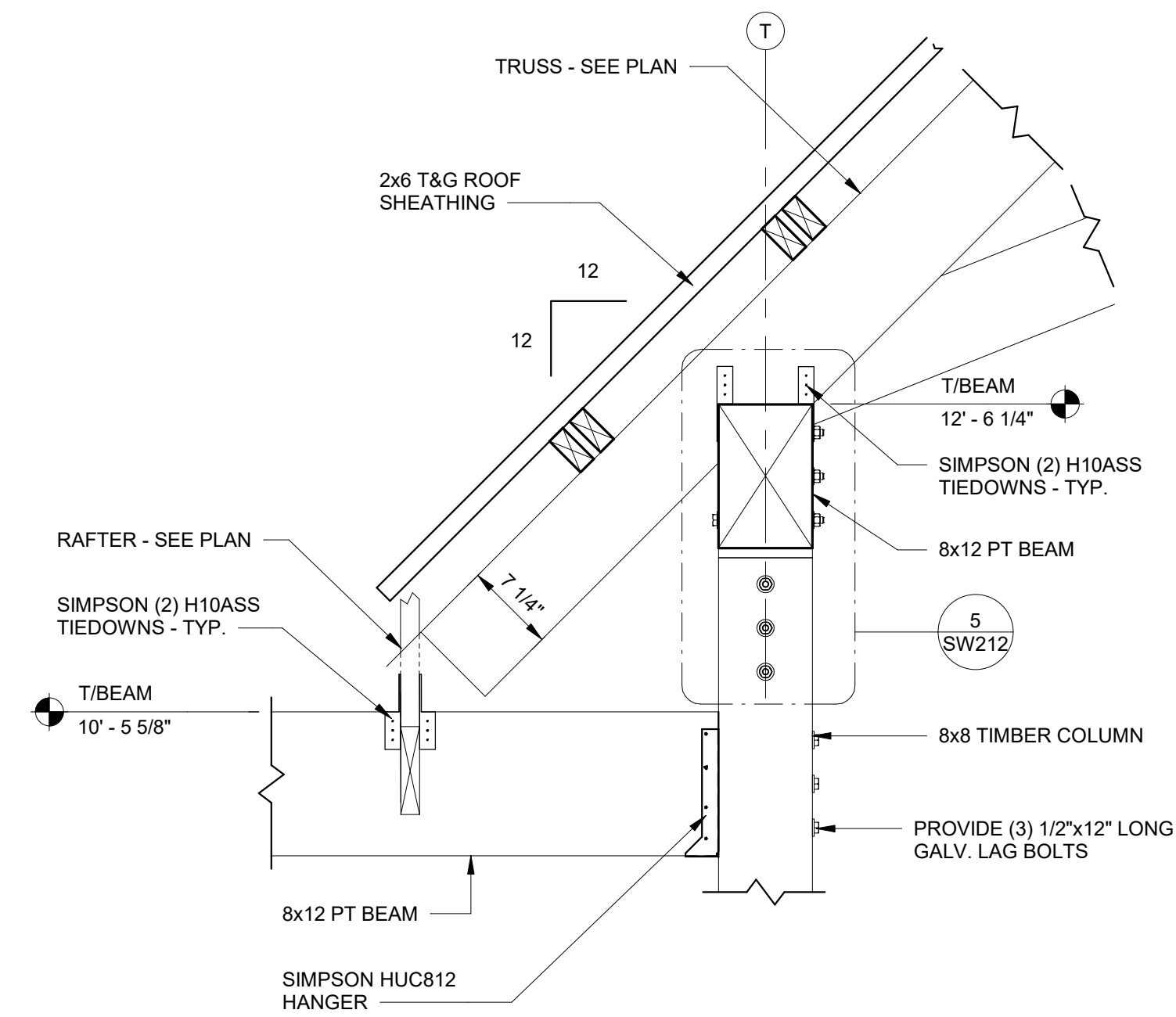
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Date	
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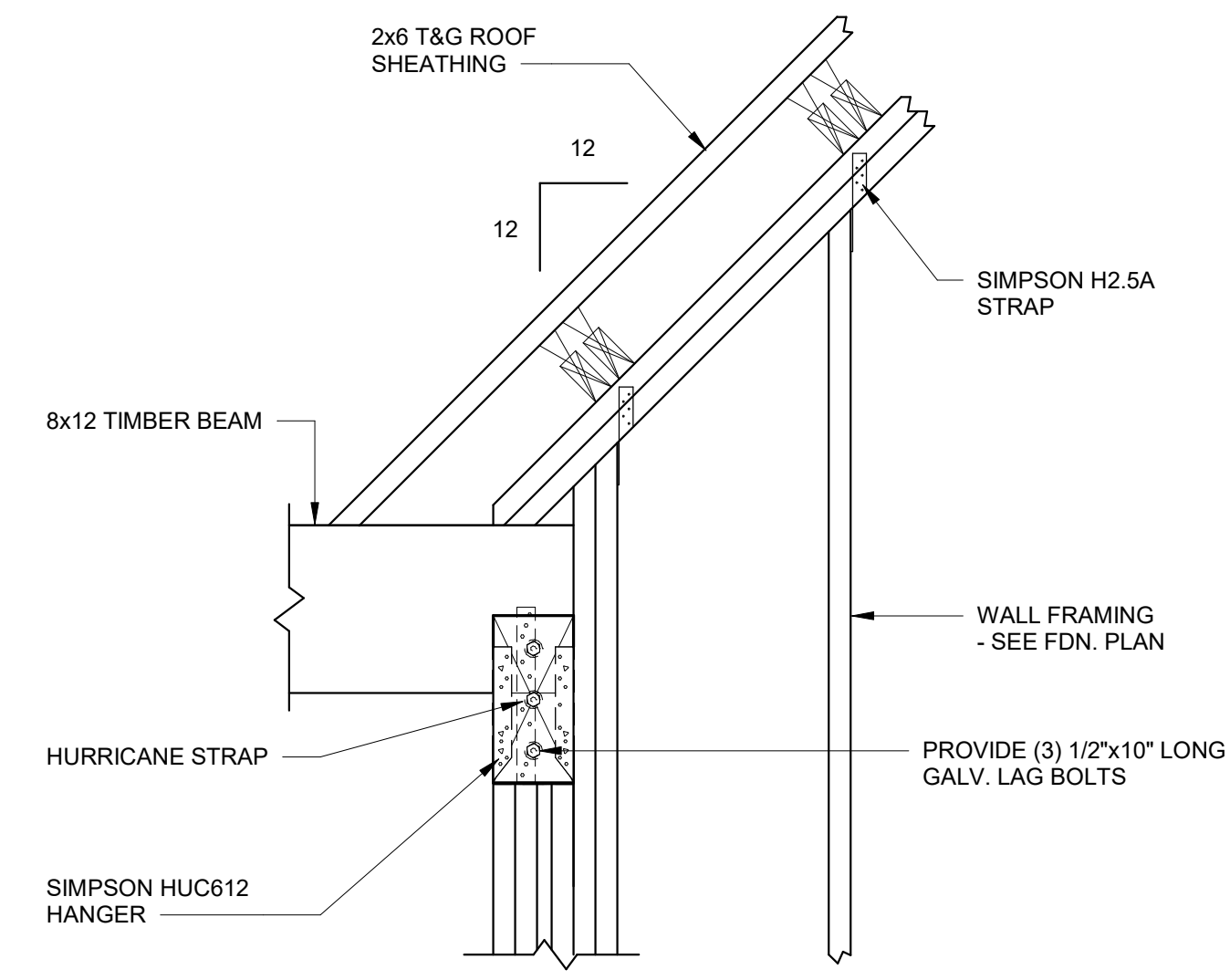
JOB	20-1101-0049
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	ROOF FRAMING SECTIONS
SHEET NO.	SW211



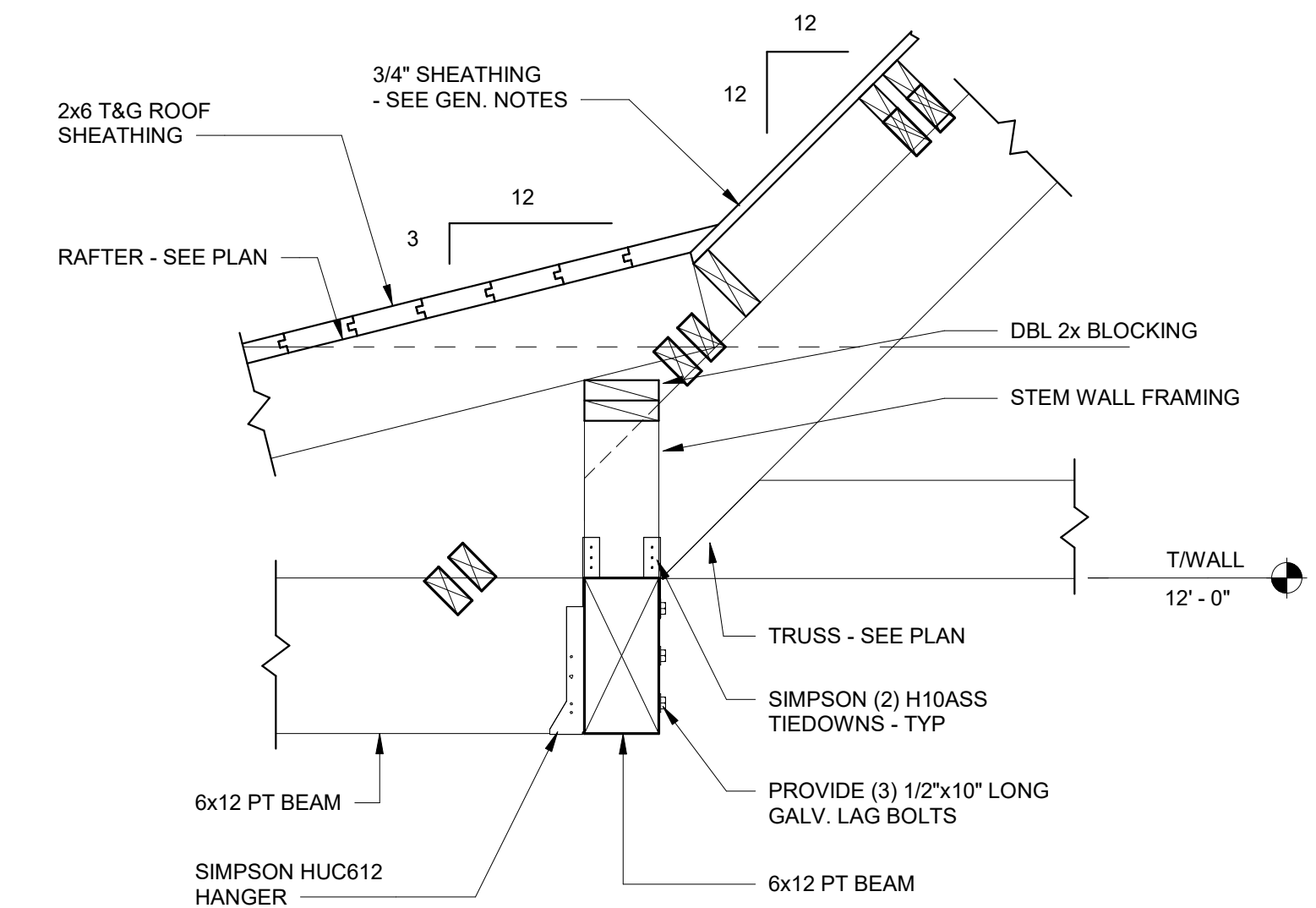
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SW212 SCALE: 1" = 1'-0"



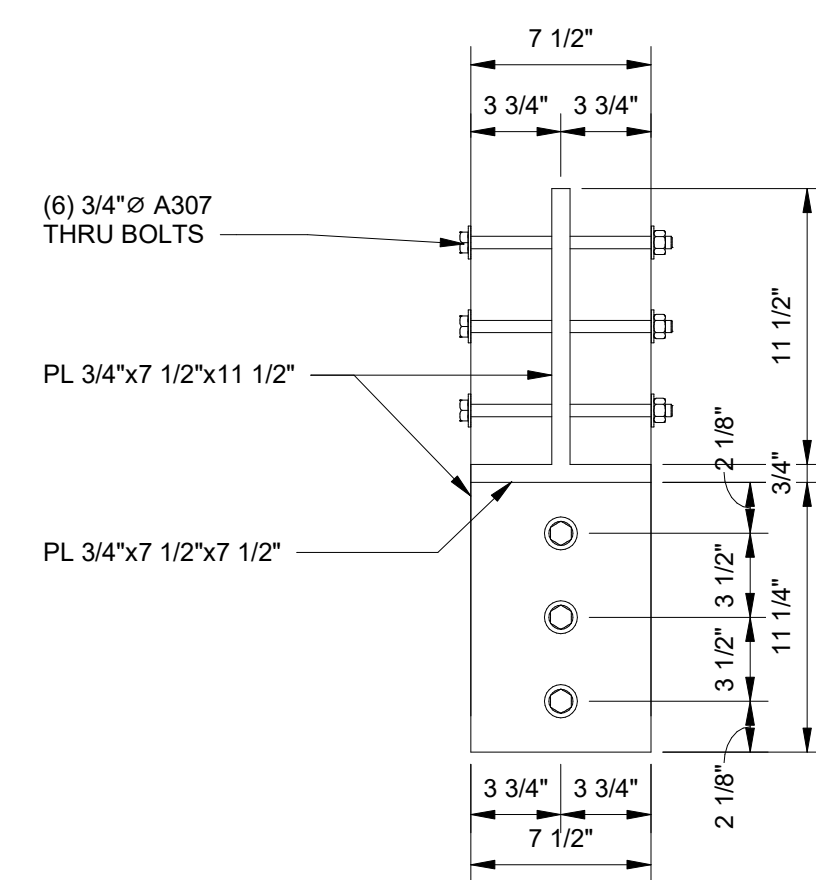
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SW212 SCALE: 1" = 1'-0"



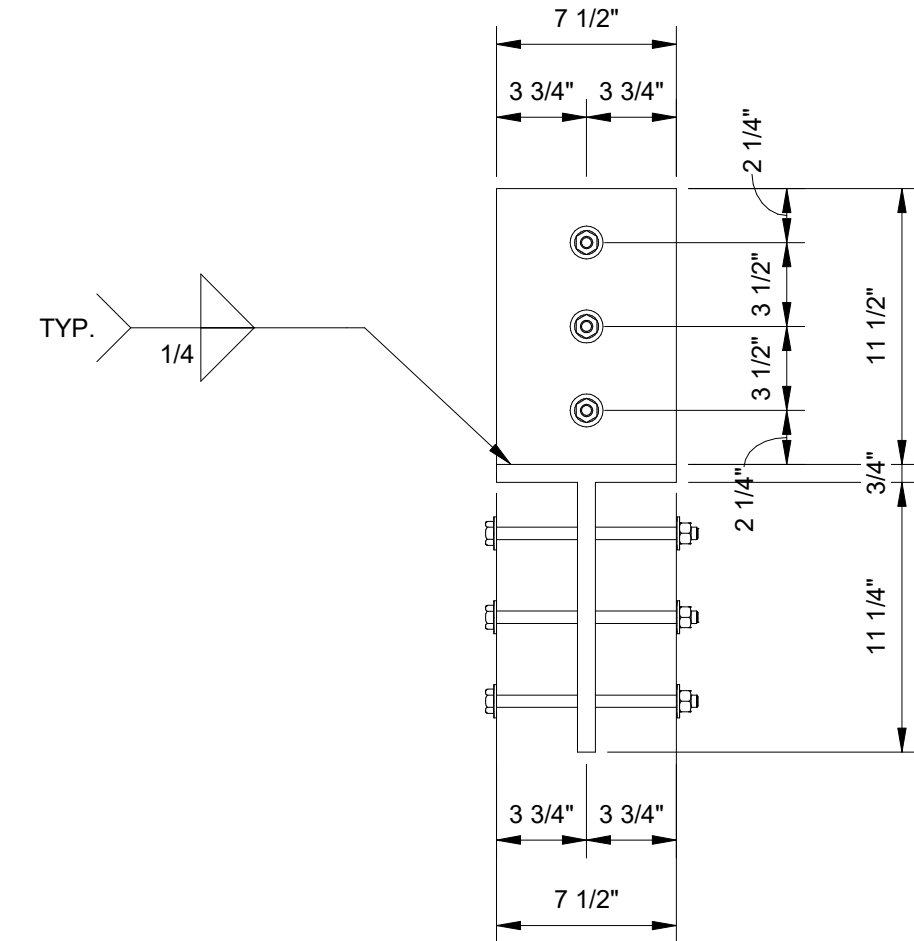
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SW212 SCALE: 1" = 1'-0"



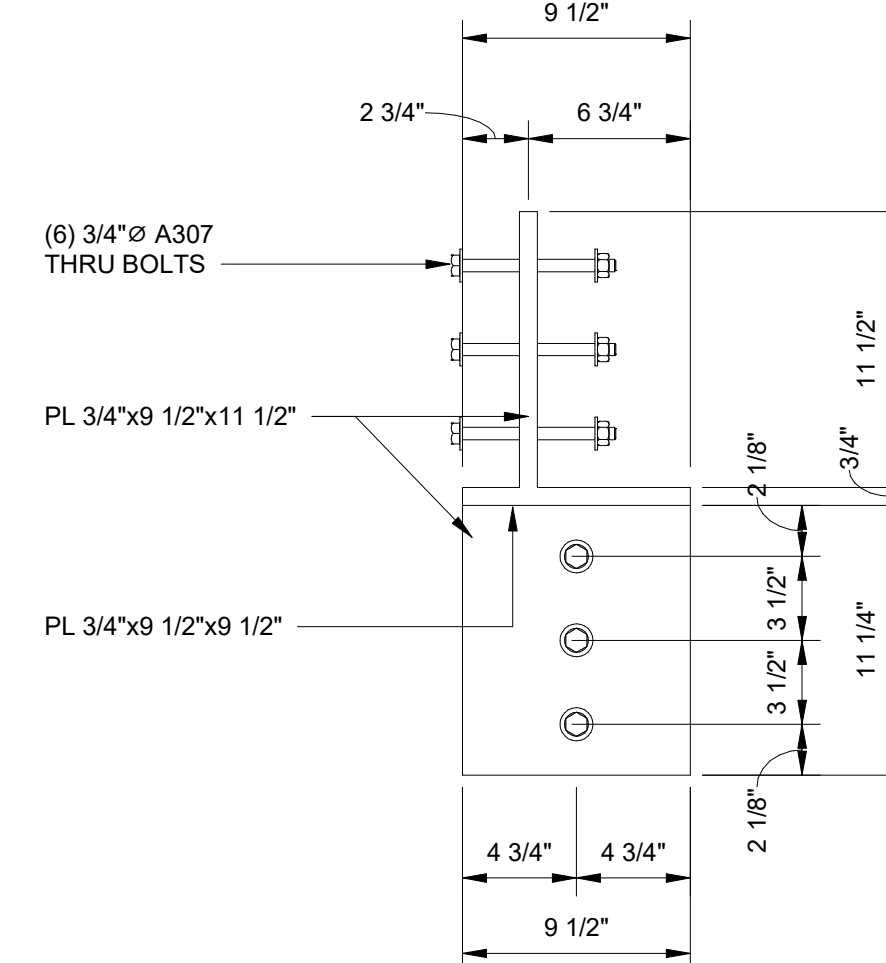
4 SECTION
SW212 SCALE: 1" = 1'-0"



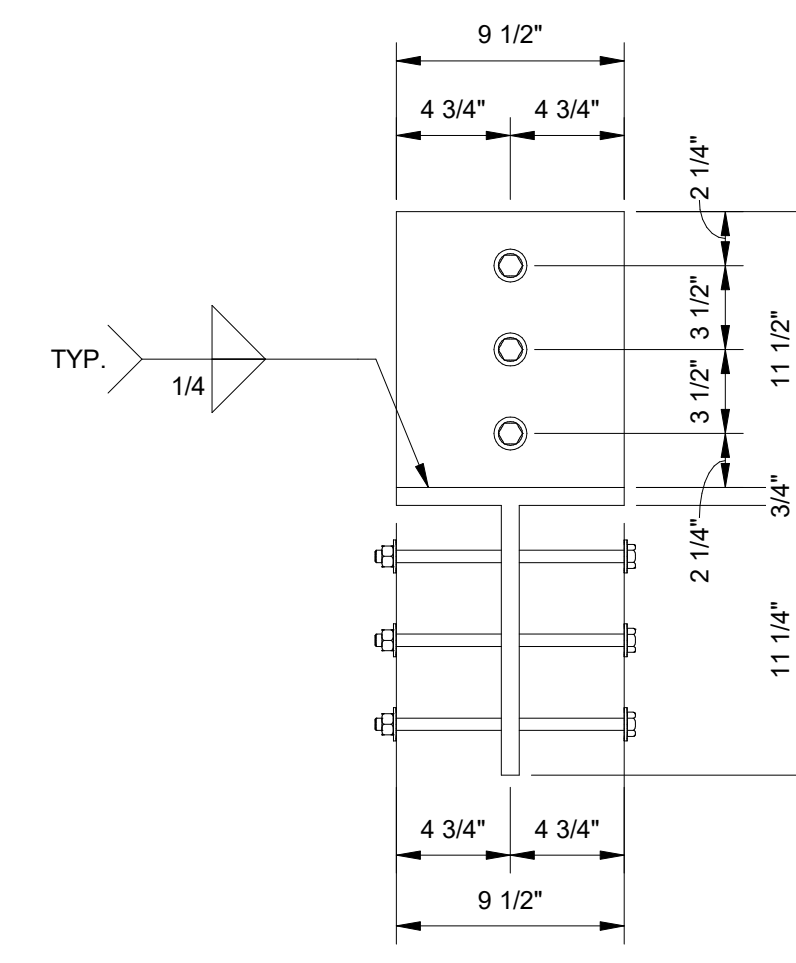
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SW212 SCALE: 1 1/2" = 1'-0"



6 DETAIL
SW212 SCALE: 1 1/2" = 1'-0"



7 DETAIL
SW212 SCALE: 1 1/2" = 1'-0"



8 DETAIL
SW212 SCALE: 1 1/2" = 1'-0"



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No.	Date	Revision	Description

JOB
20-1101-0049

PROJECT STATUS
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DATE
MARCH 24, 2023

SHEET NAME
**ROOF FRAMING
SECTIONS**

SHEET NO.
SW212



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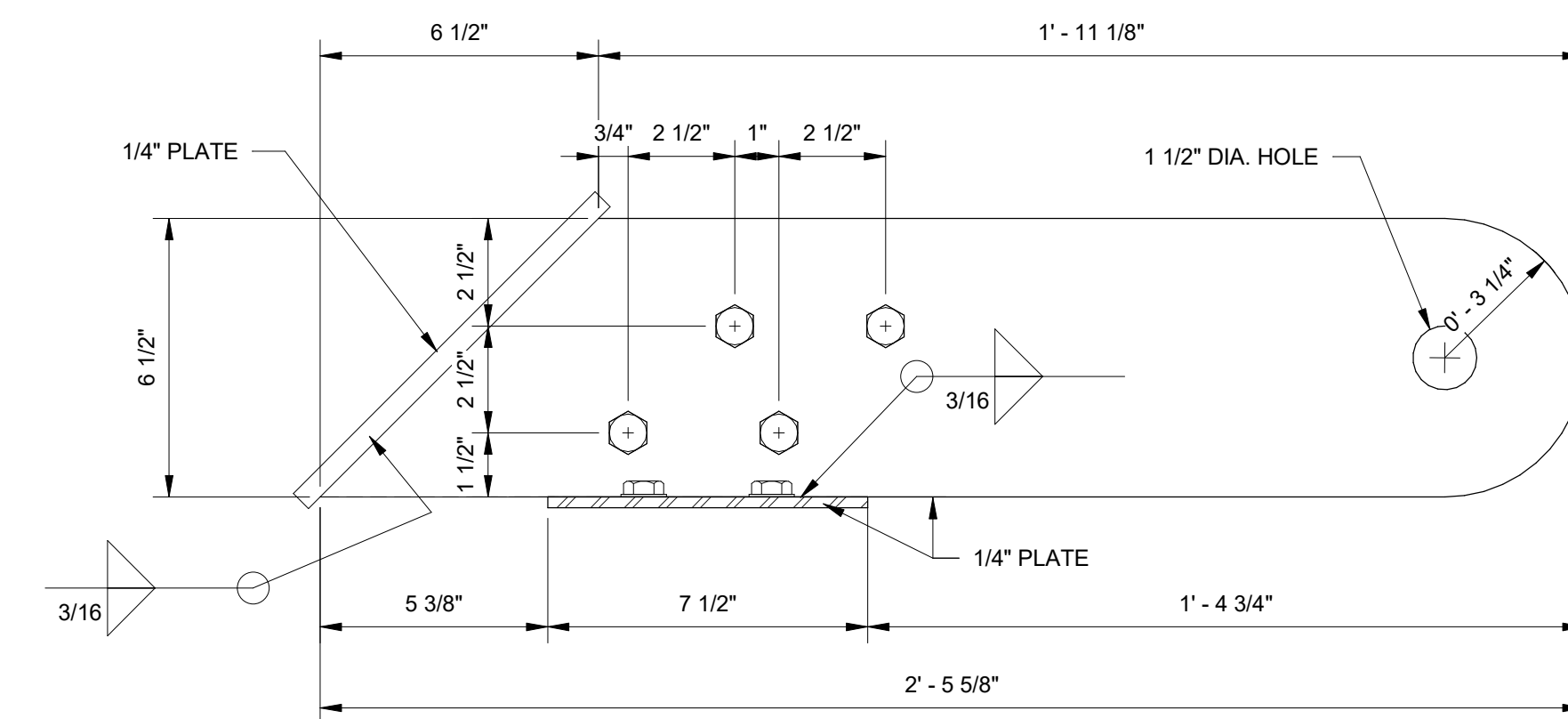
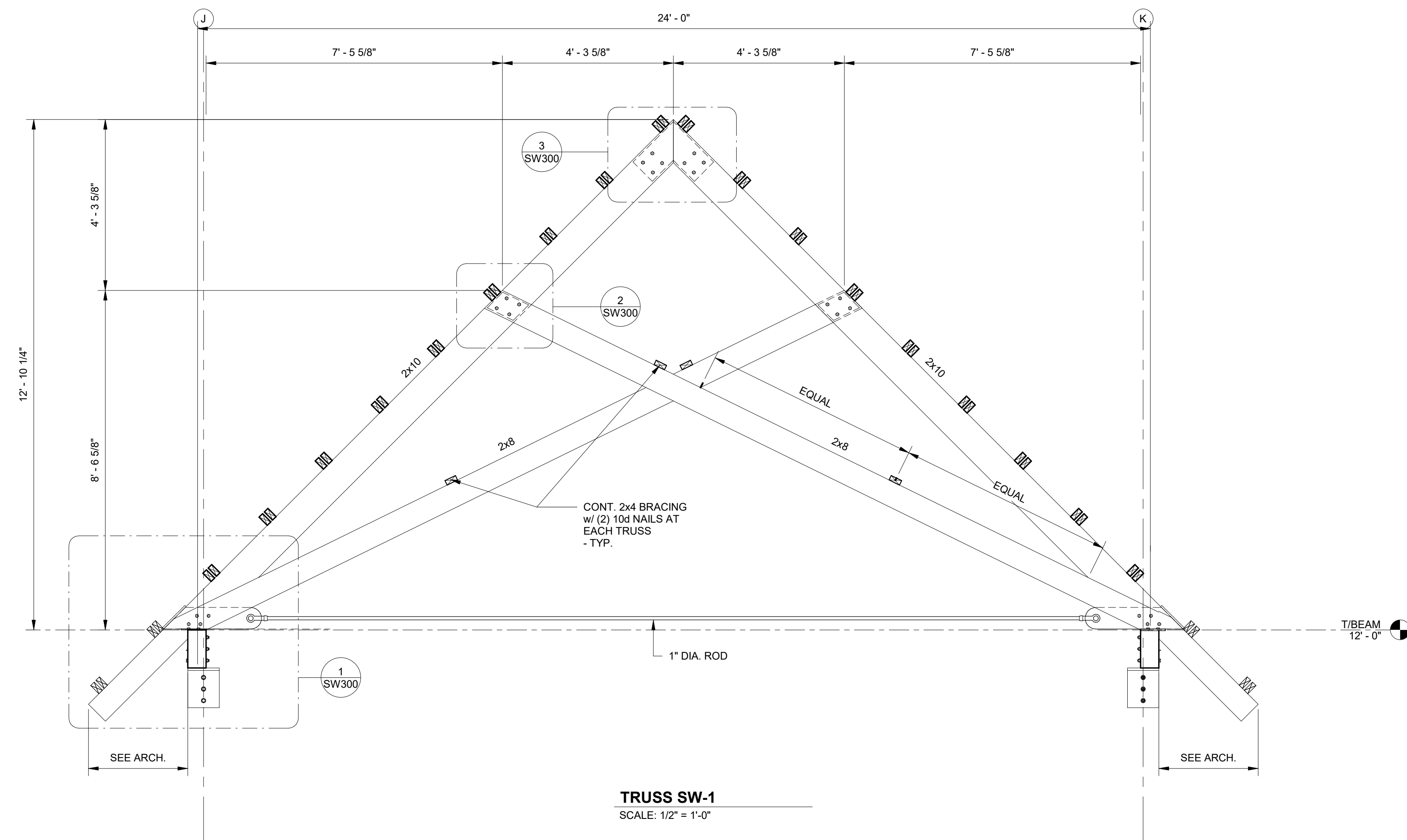
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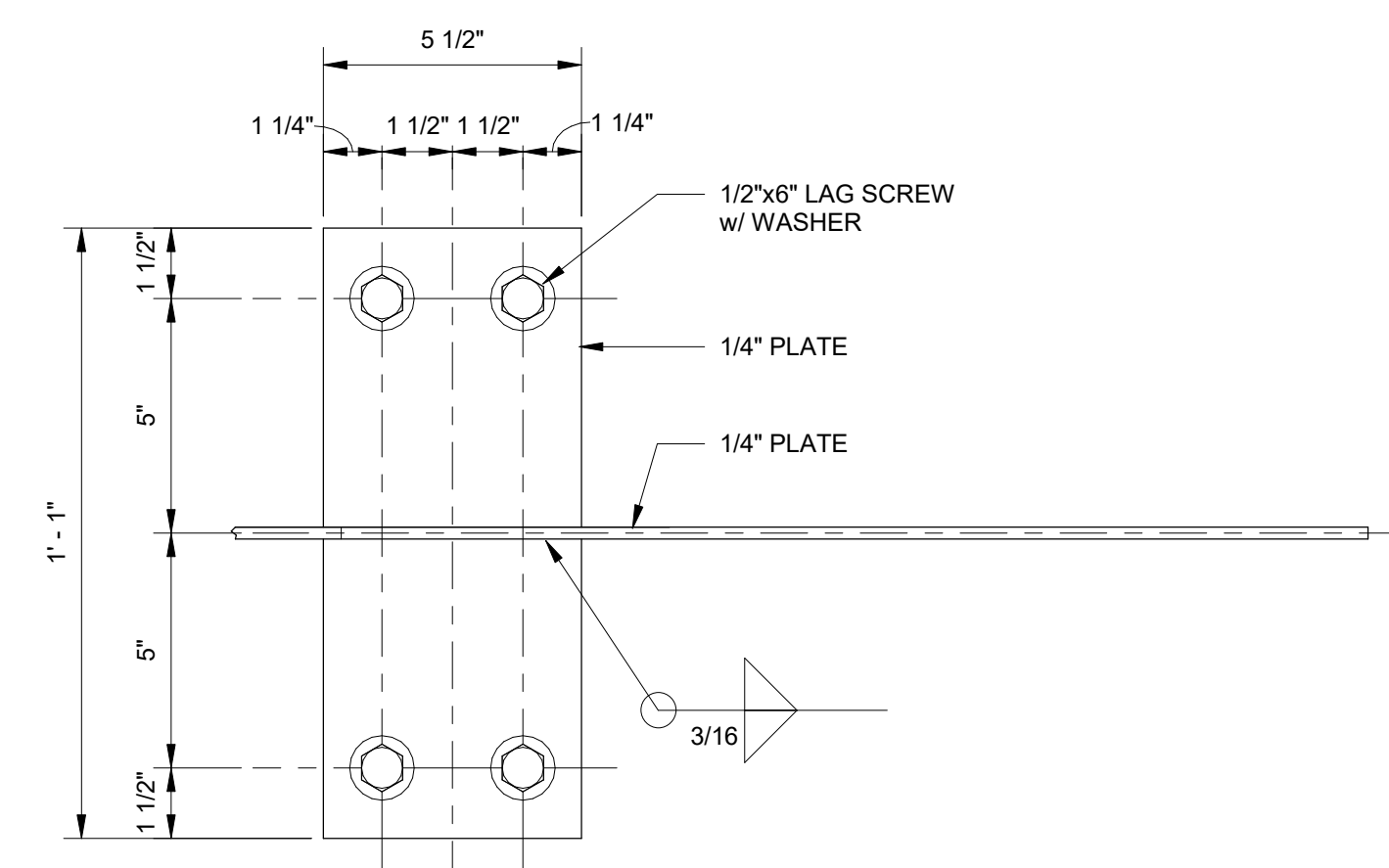
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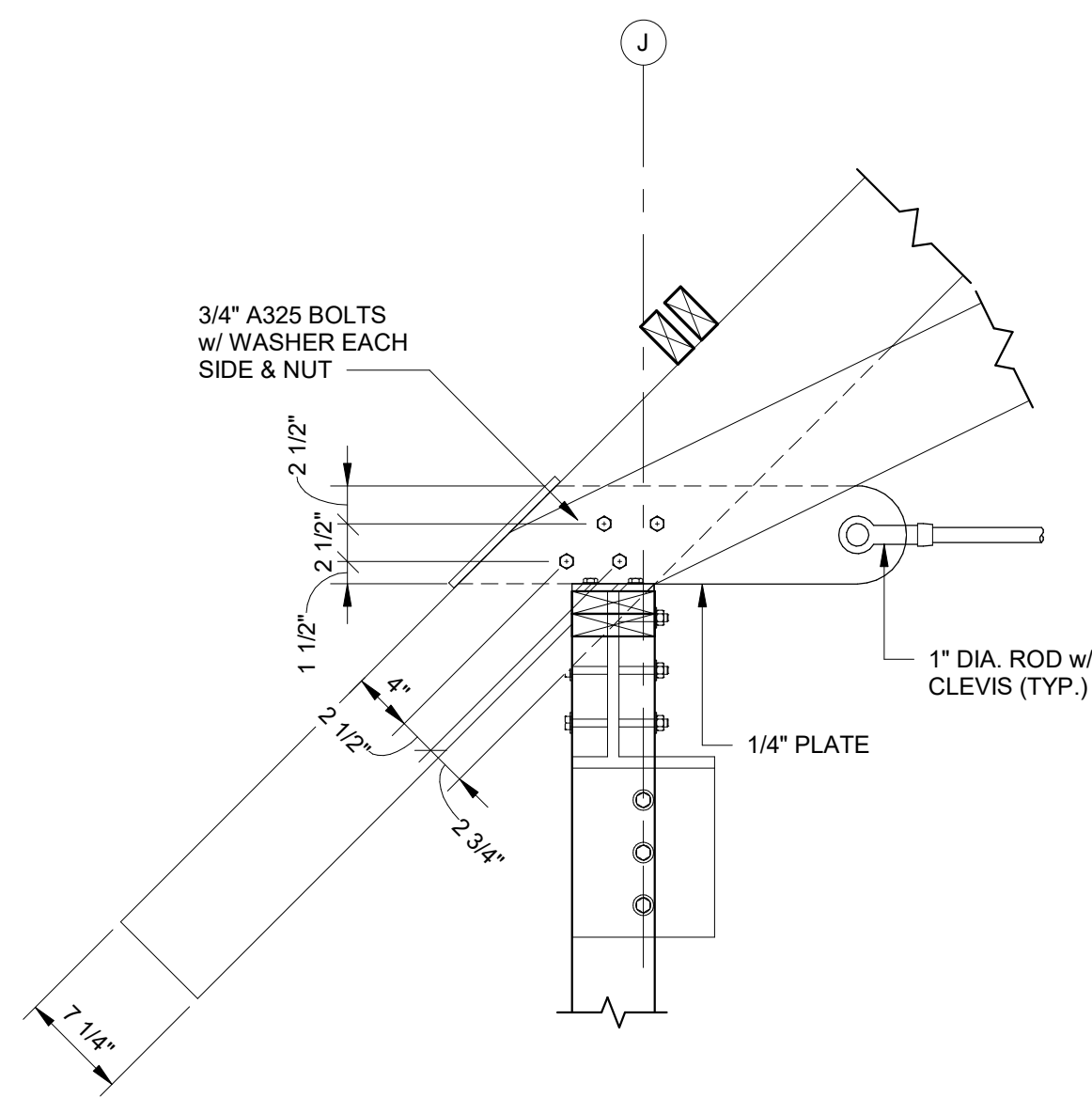
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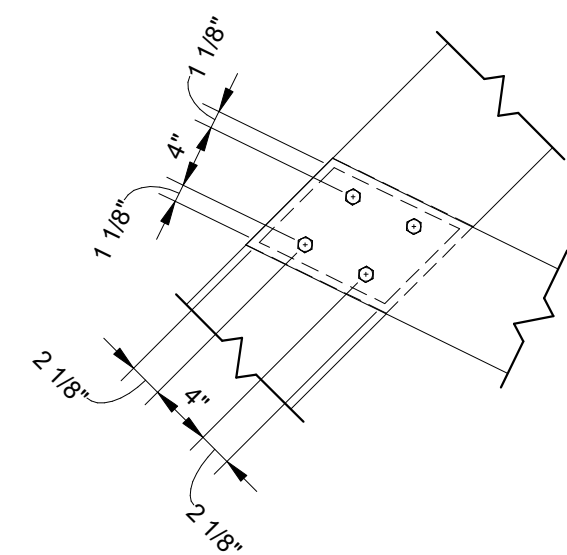
TRUSS TONGUE PLATE DETAIL - SW-1
SCALE: 3" = 1'-0"



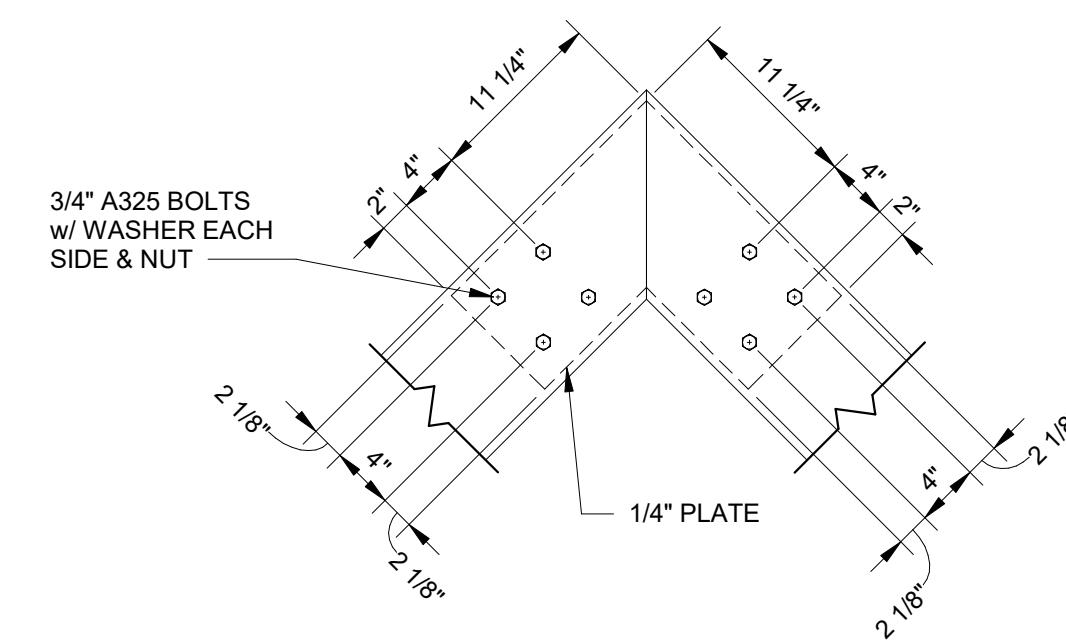
TRUSS SEAT PLATE DETAIL - SW-1
SCALE: 3" = 1'-0"



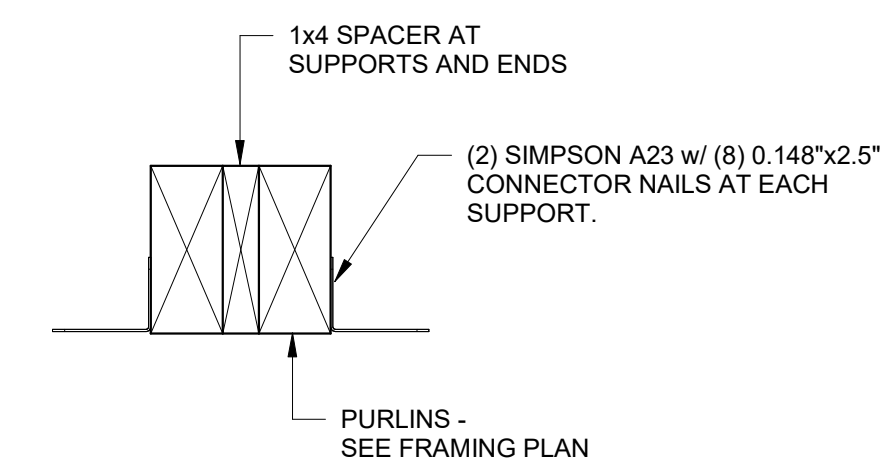
1 DETAIL
SCALE: 1" = 1'-0"



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



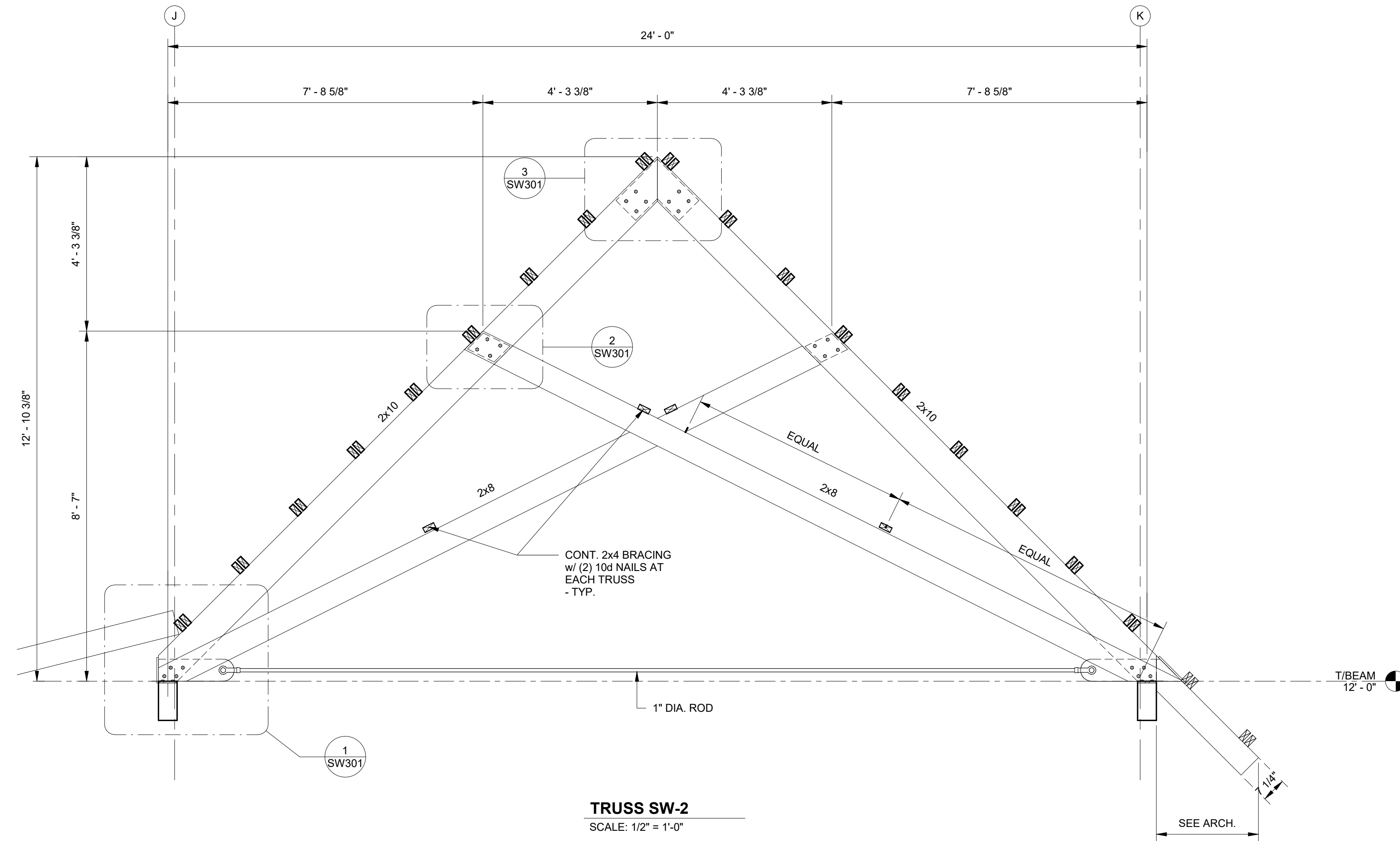
3 DETAIL
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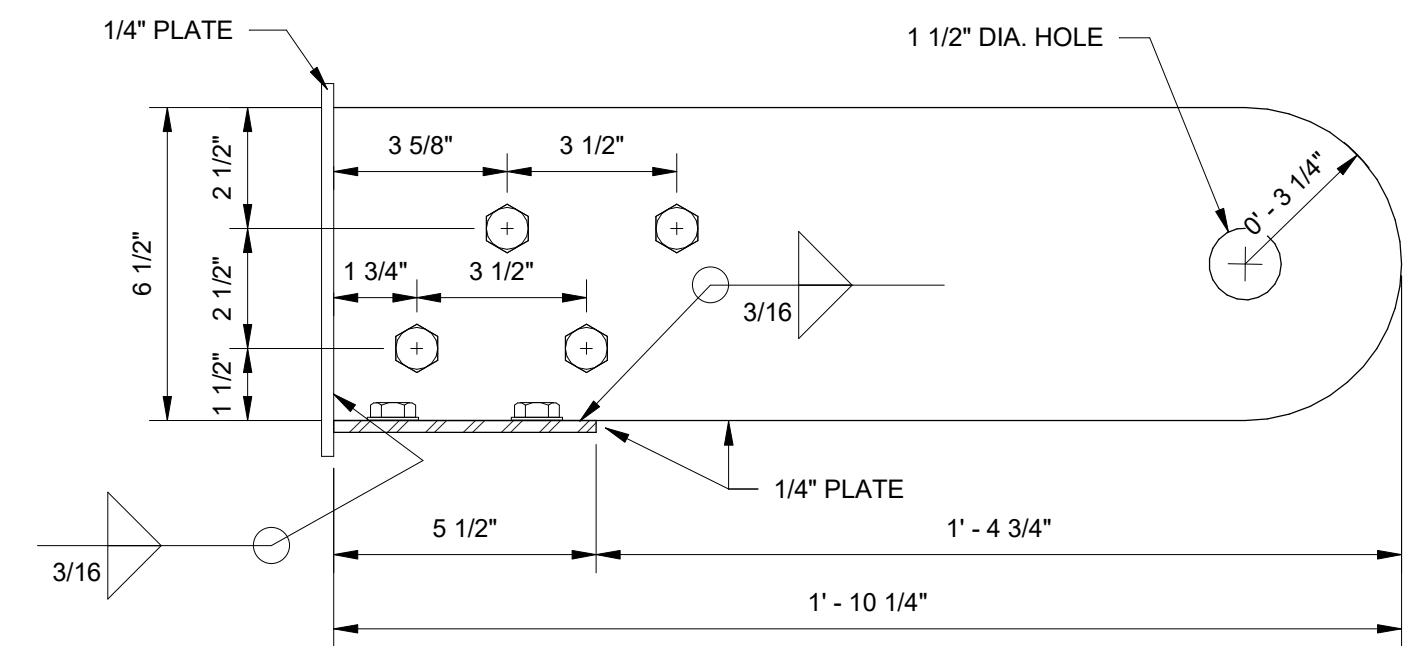
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No.	Date	Revision	Description

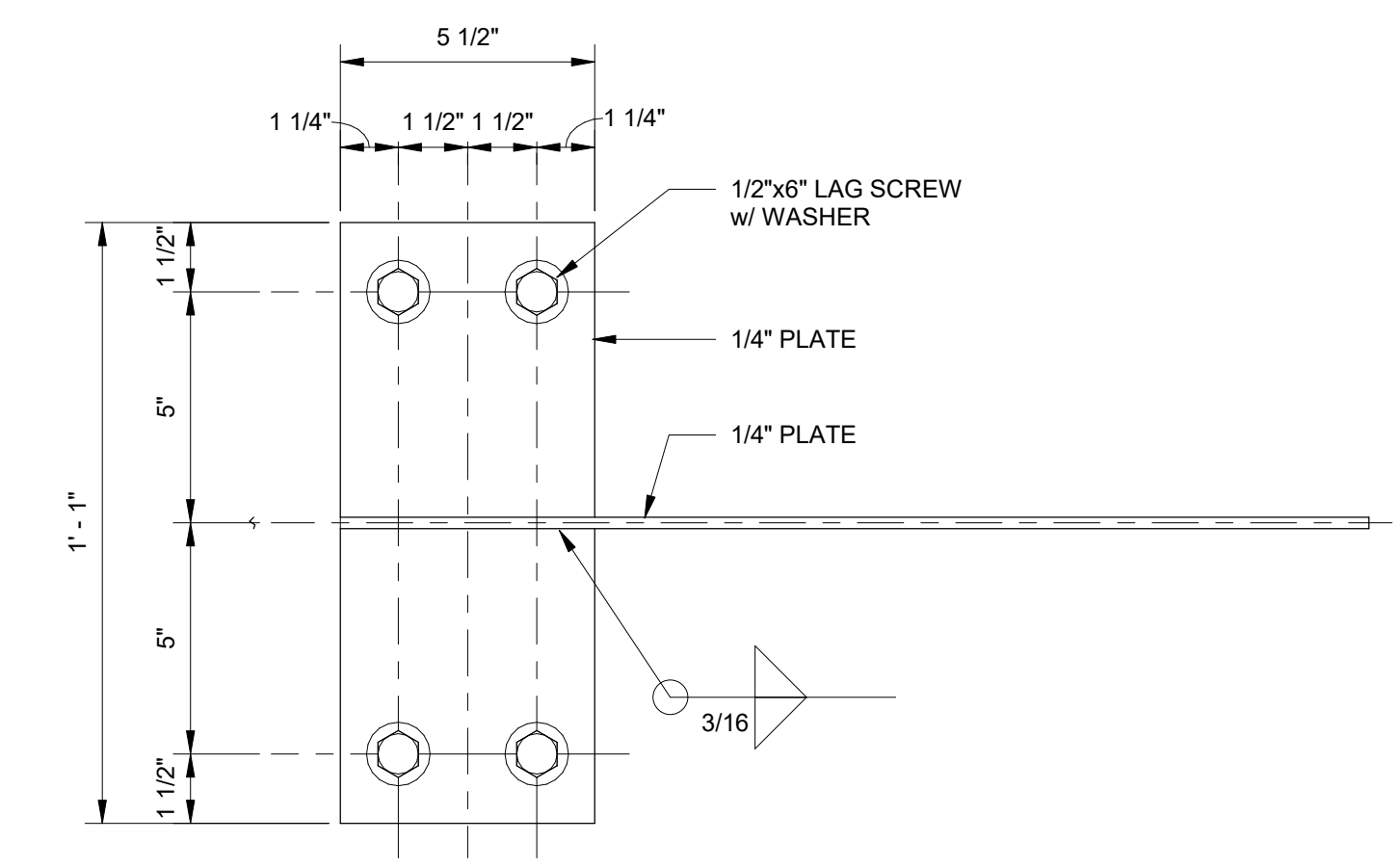
JOB	20-1101-0049
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	TRUSS ELEVATIONS
SHEET NO.	SW300



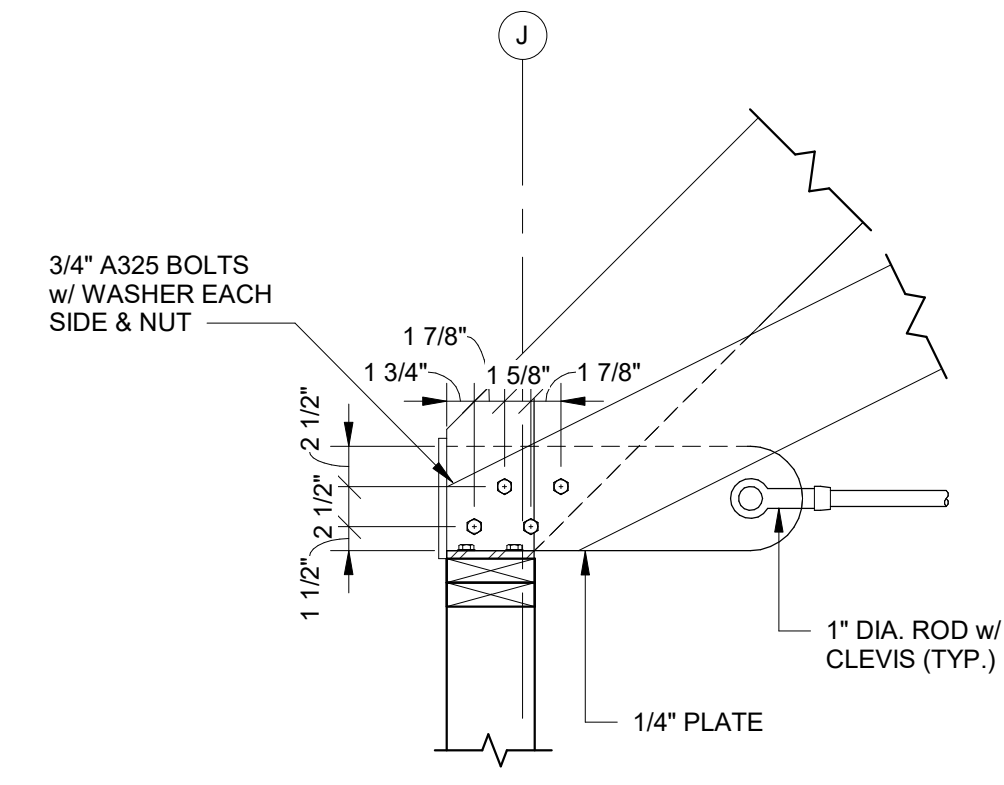
TRUSS SW-2
SCALE: 1/2" = 1'-0"



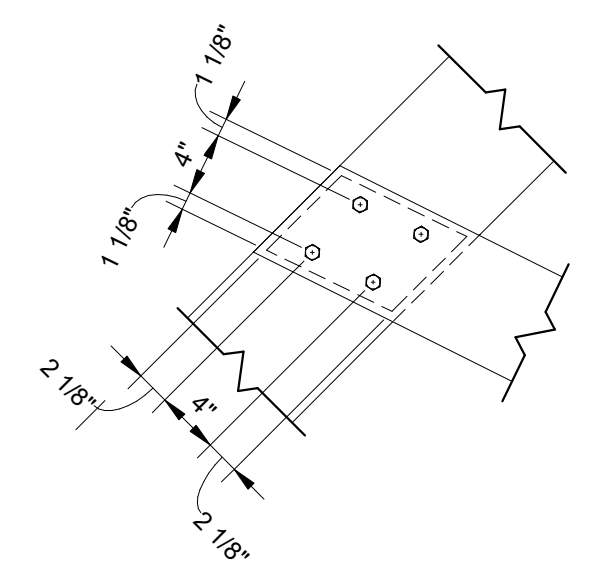
TRUSS TONGUE PLATE DETAIL - SW-2
SCALE: 3" = 1'-0"



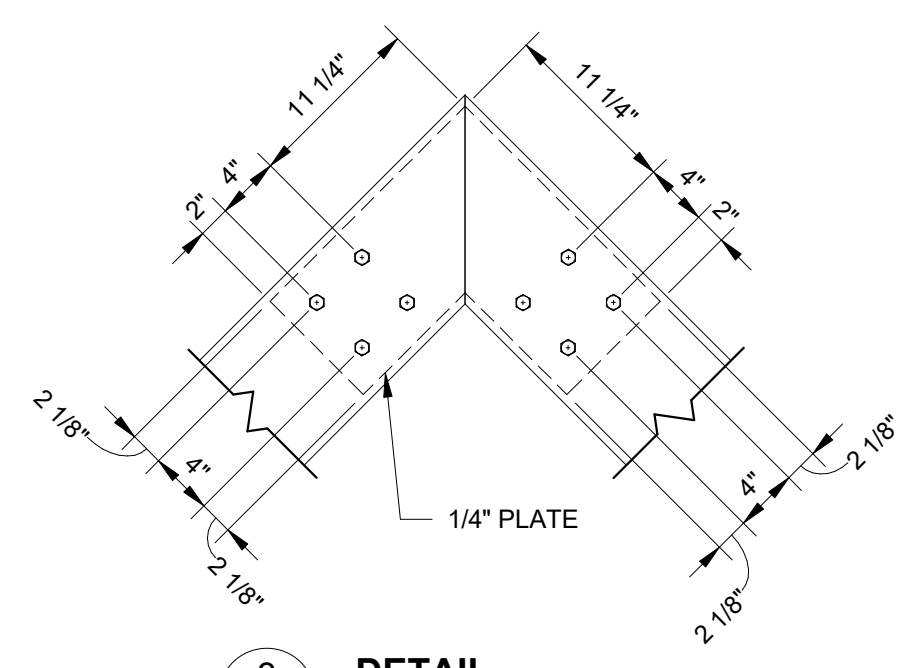
TRUSS SEAT PLATE DETAIL - SW-2
SCALE: 3" = 1'-0"



1 DETAIL
SCALE: 1" = 1'-0"



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



3 DETAIL
SCALE: 1" = 1'-0"



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Revisions	
Date	
No.	

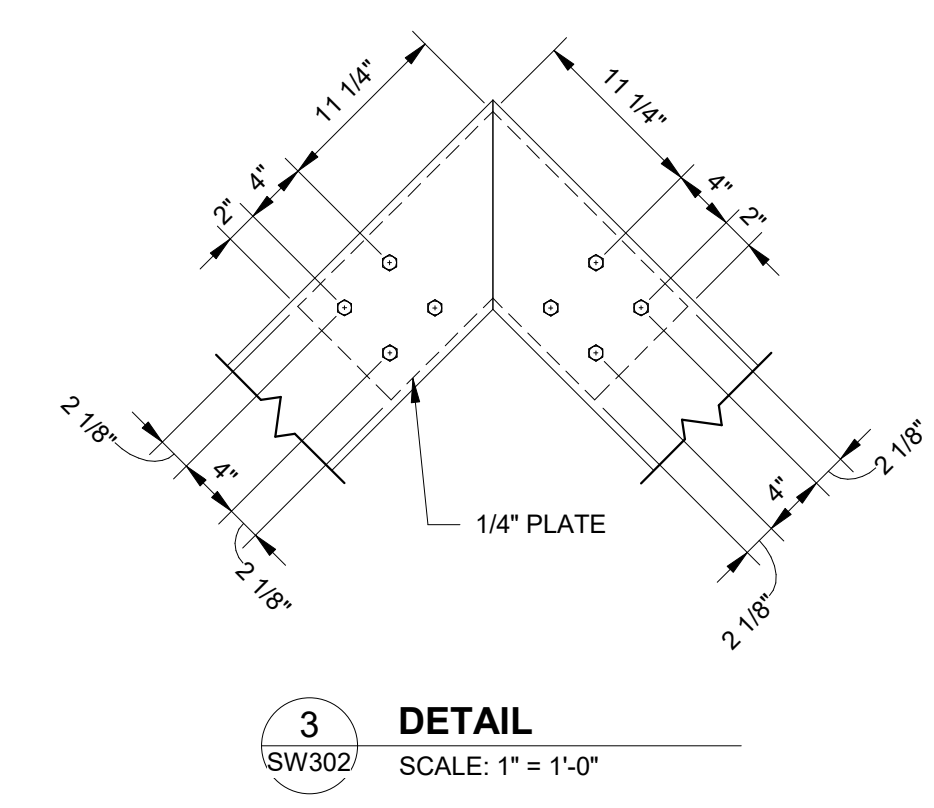
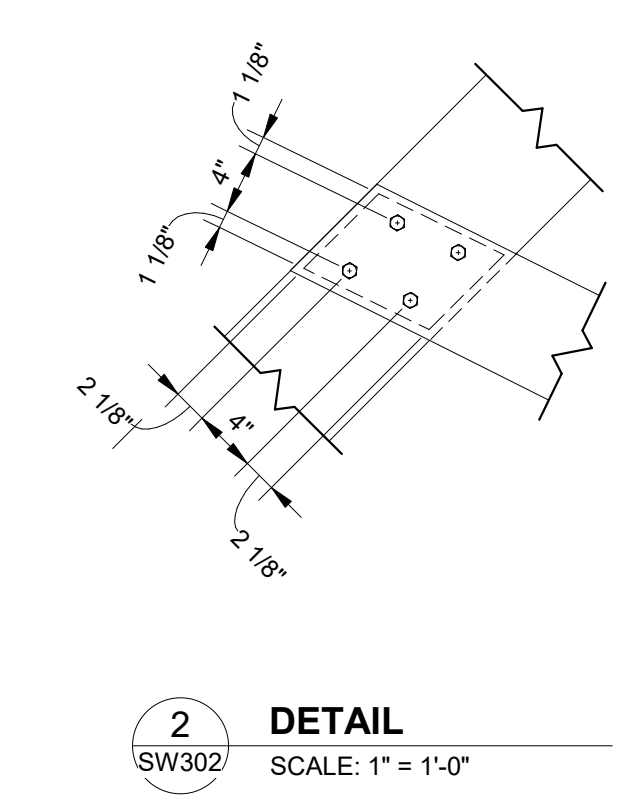
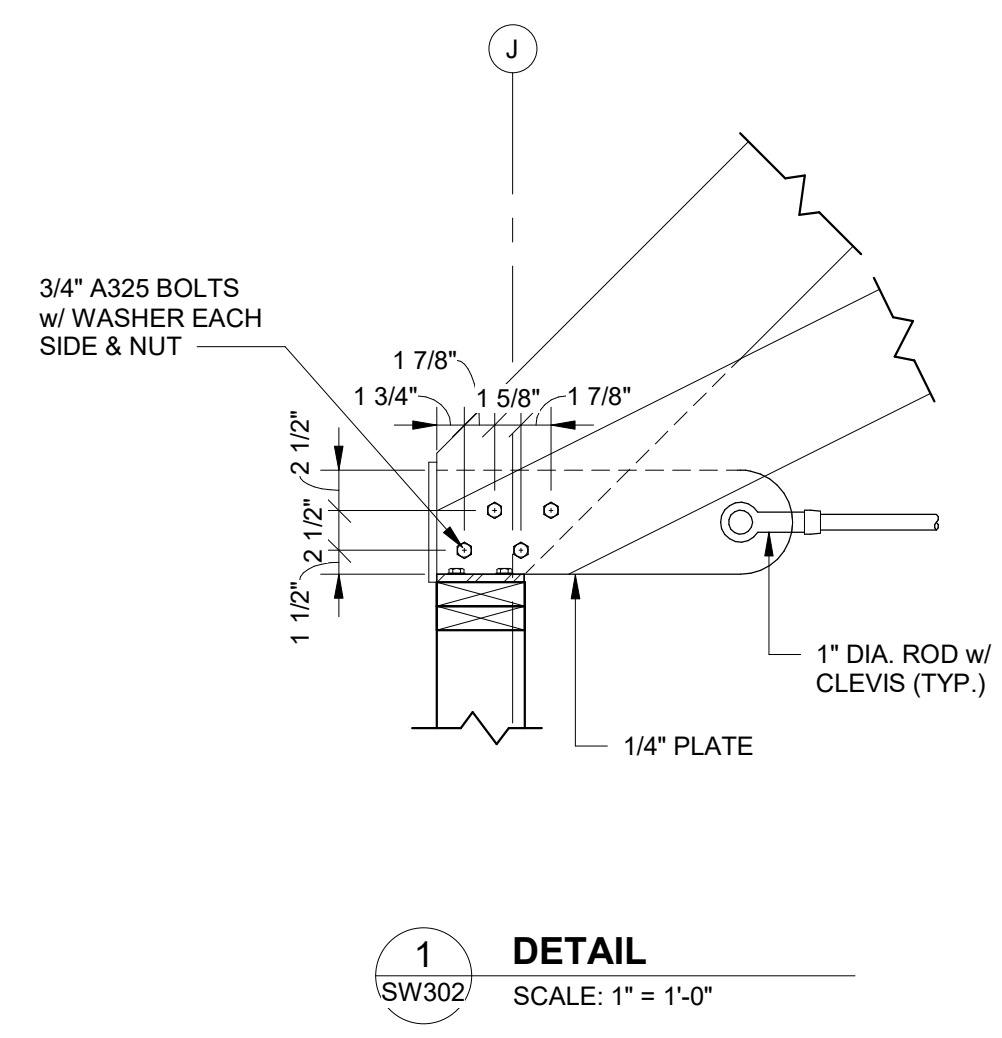
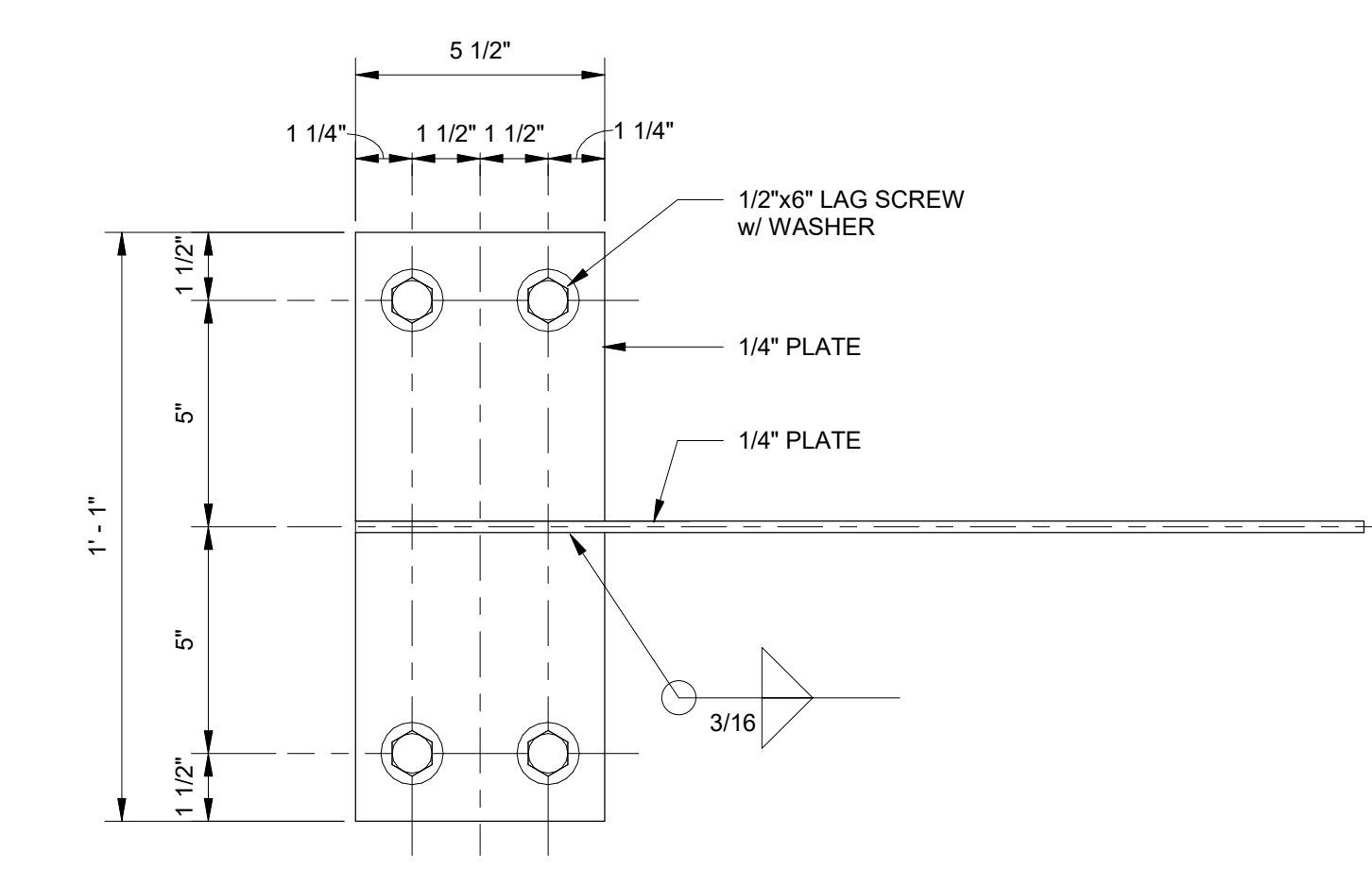
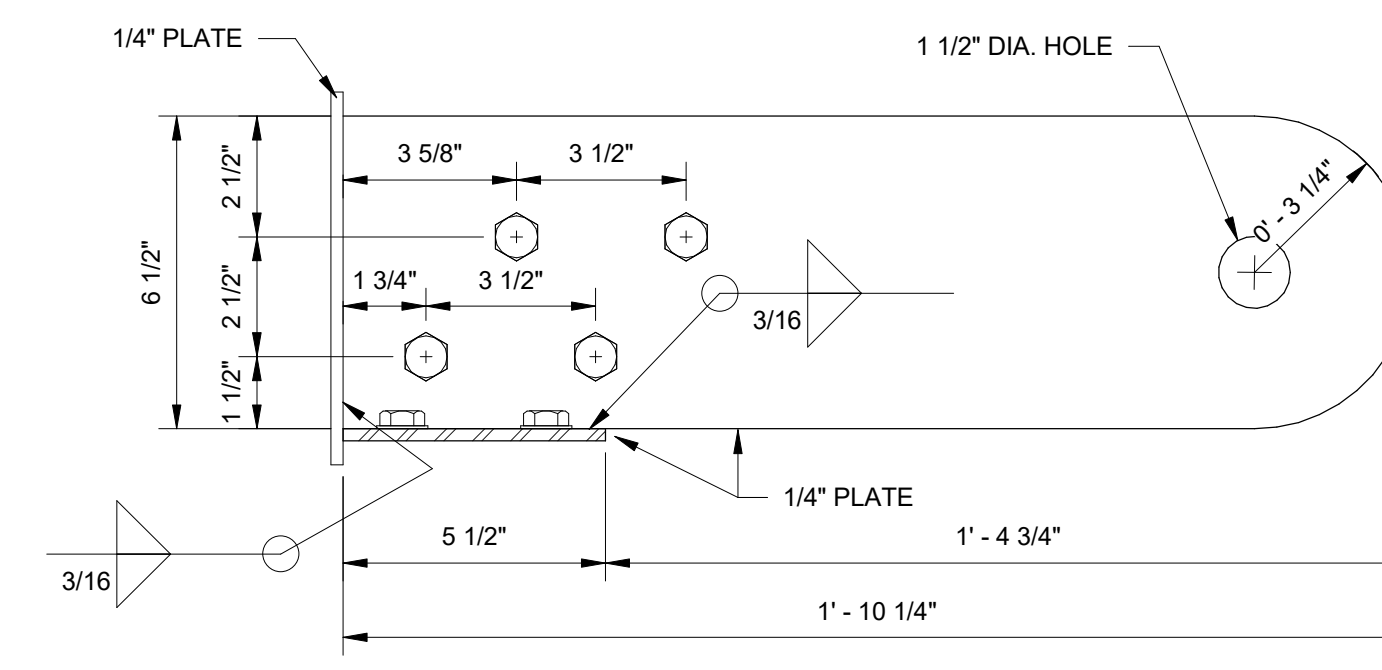
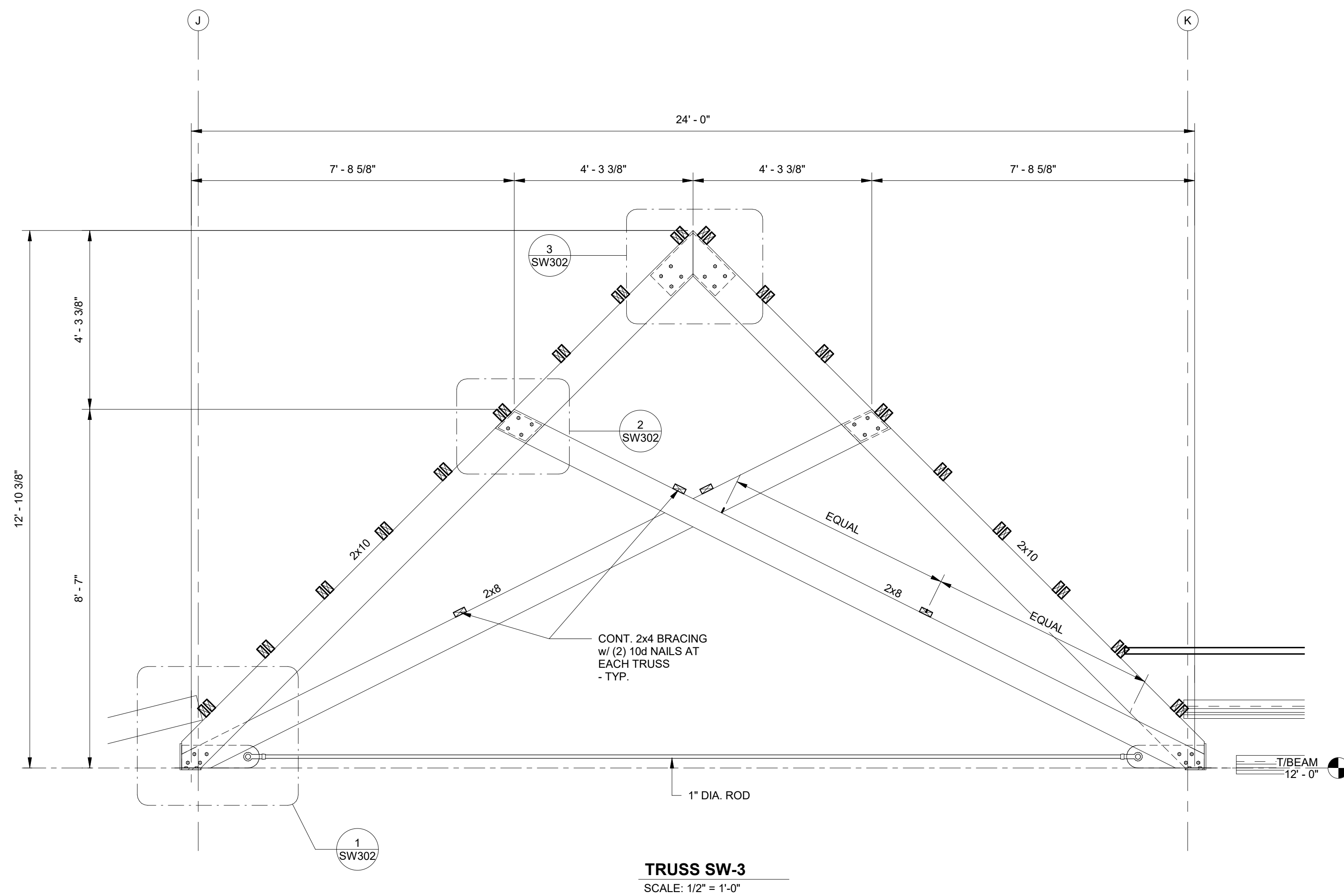
JOB
20-1101-0049

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

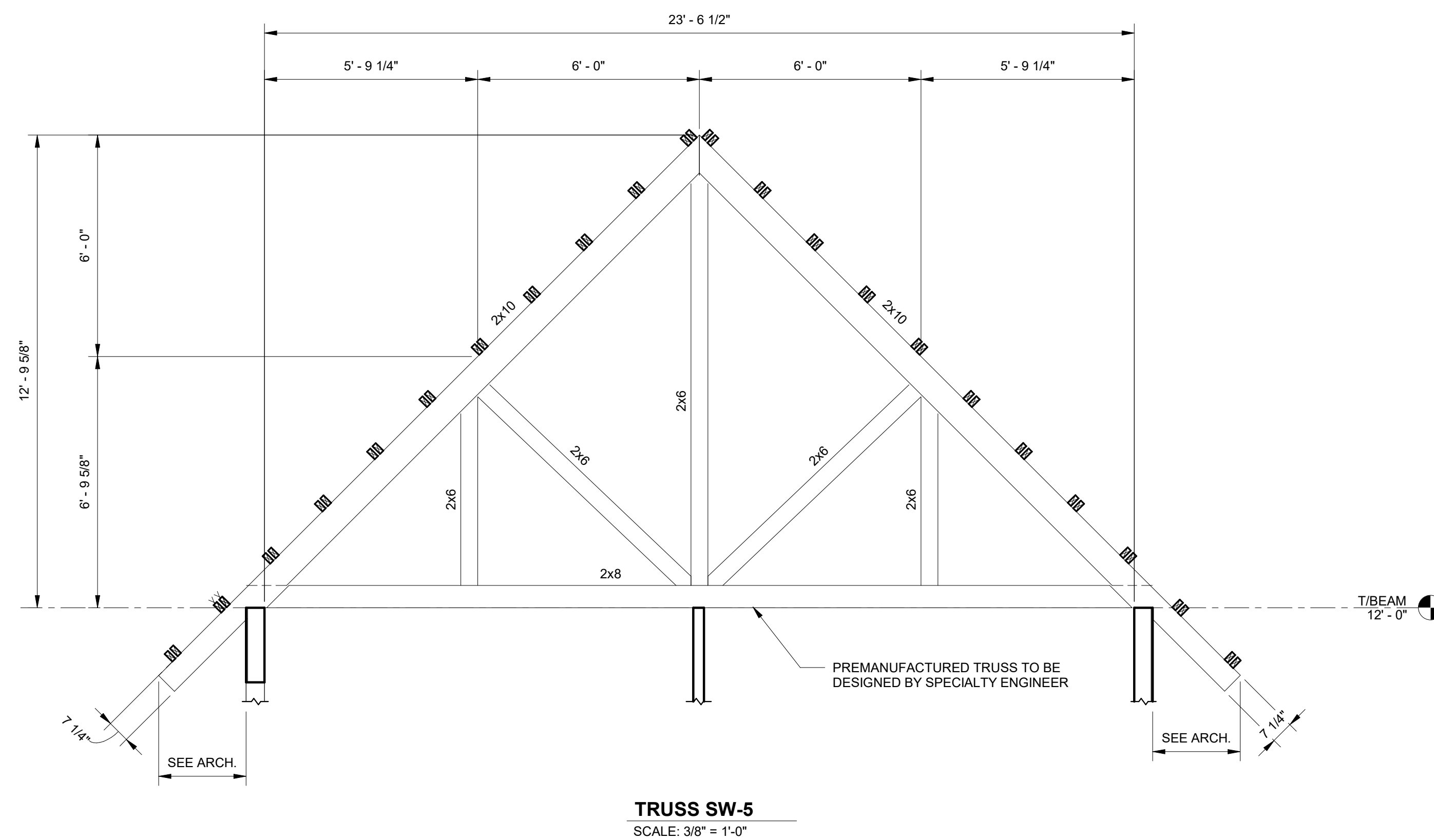
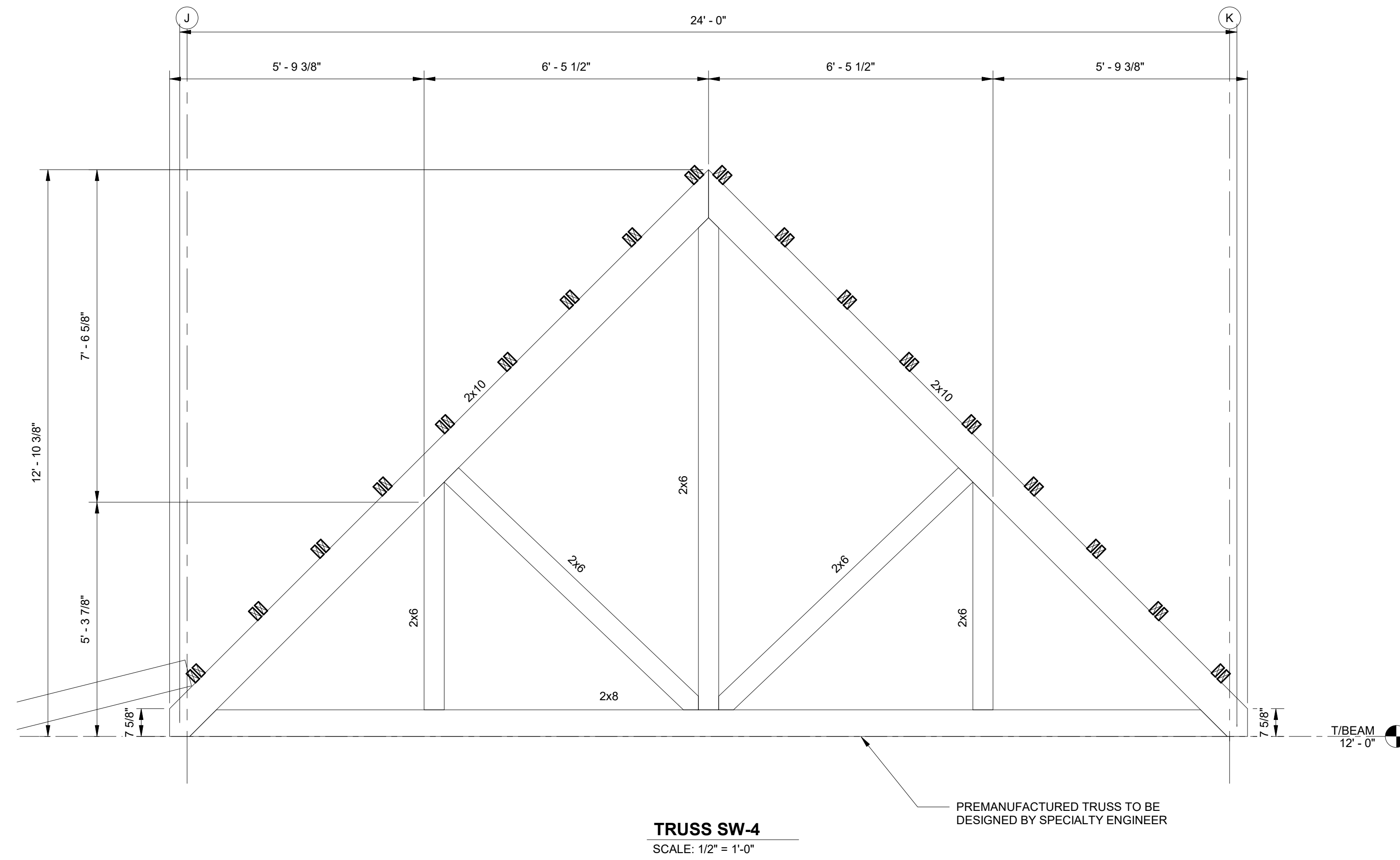
SHEET NAME
TRUSS ELEVATIONS

SHEET NO.
SW301



Revisions	
Date	
No.	

JOB	20-1101-0049
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	TRUSS ELEVATIONS
SHEET NO.	SW302



No.	
Date	
Revision	
Issue	

JOB
20-1101-0049

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

SHEET NAME
TRUSS ELEVATIONS

SHEET NO.
SW303



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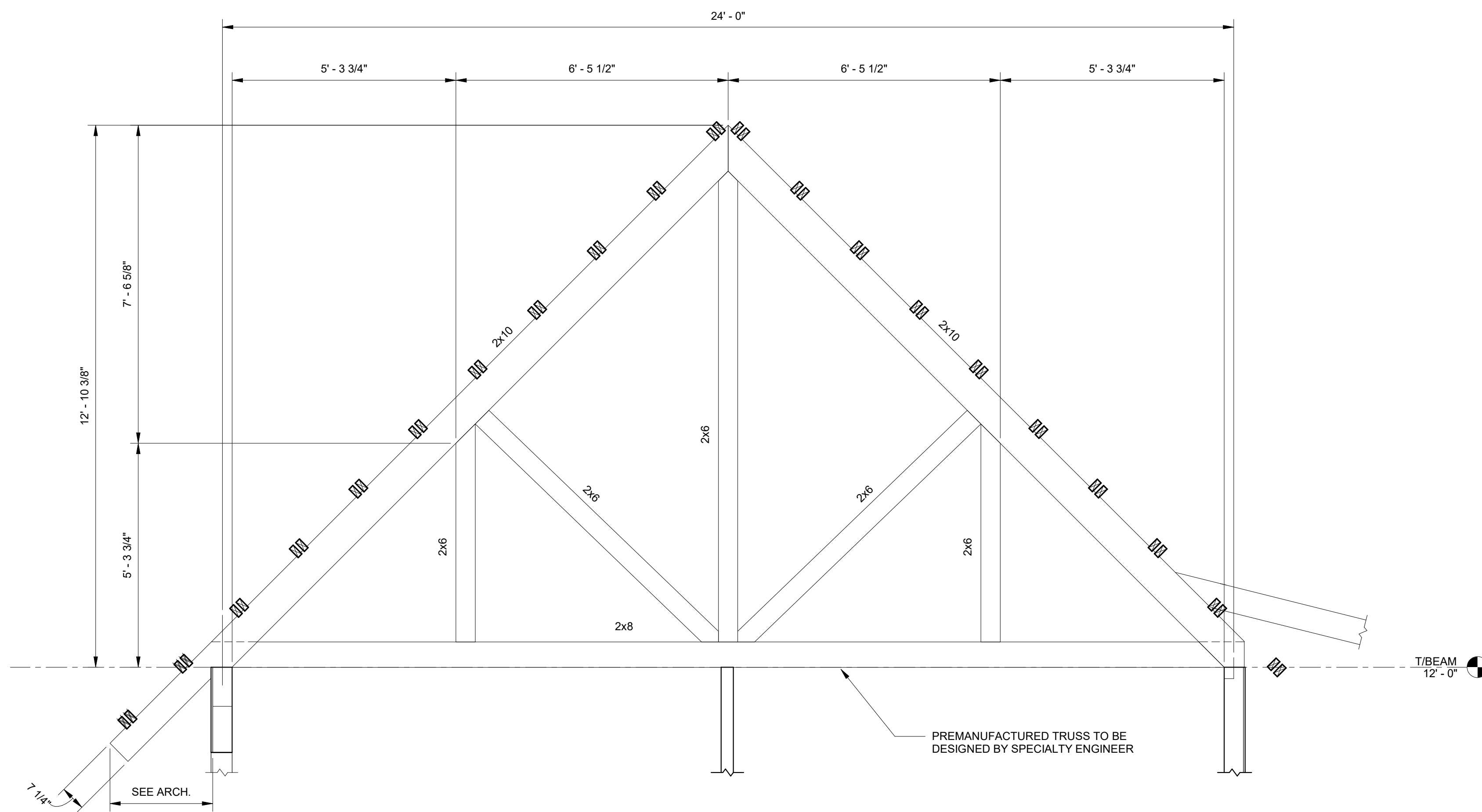
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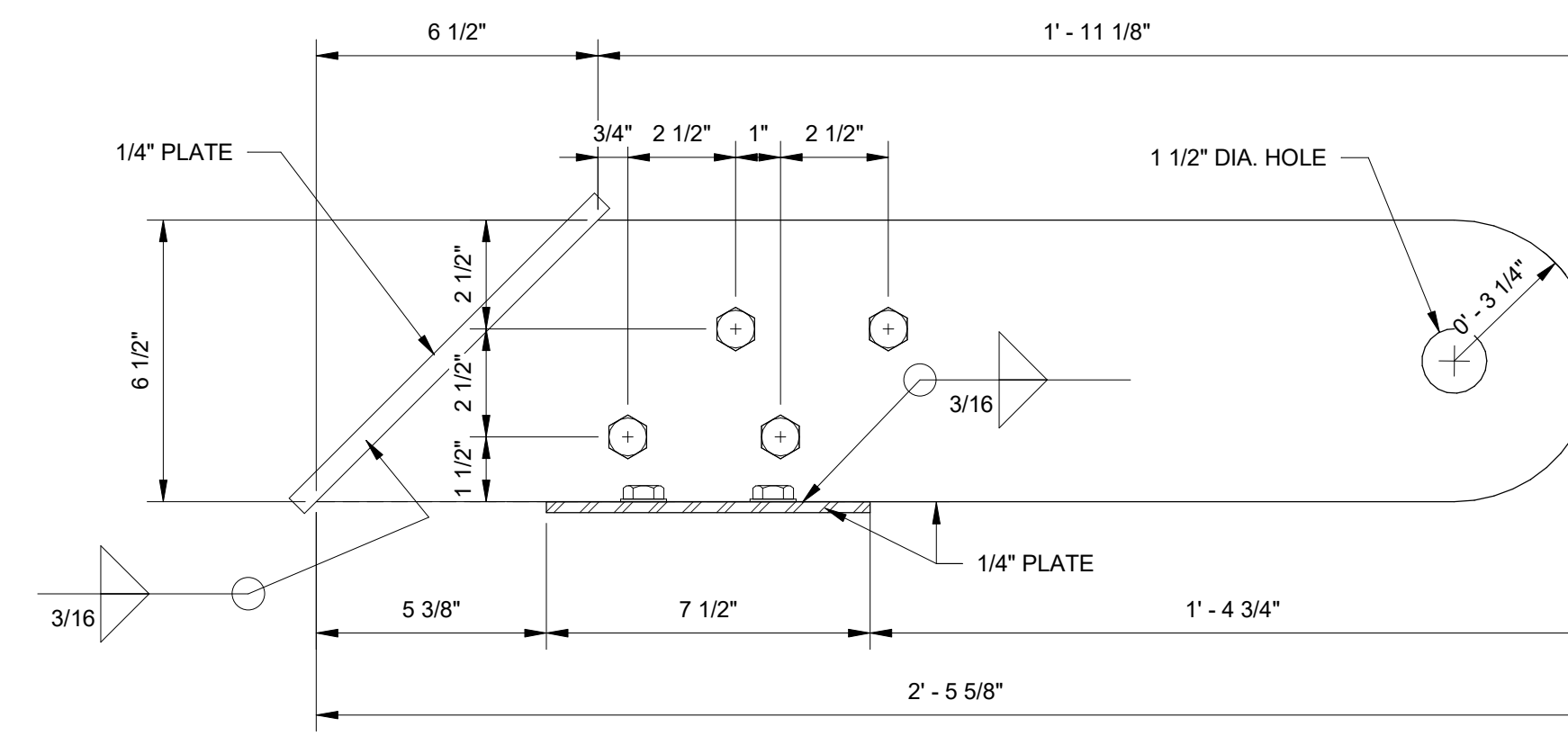
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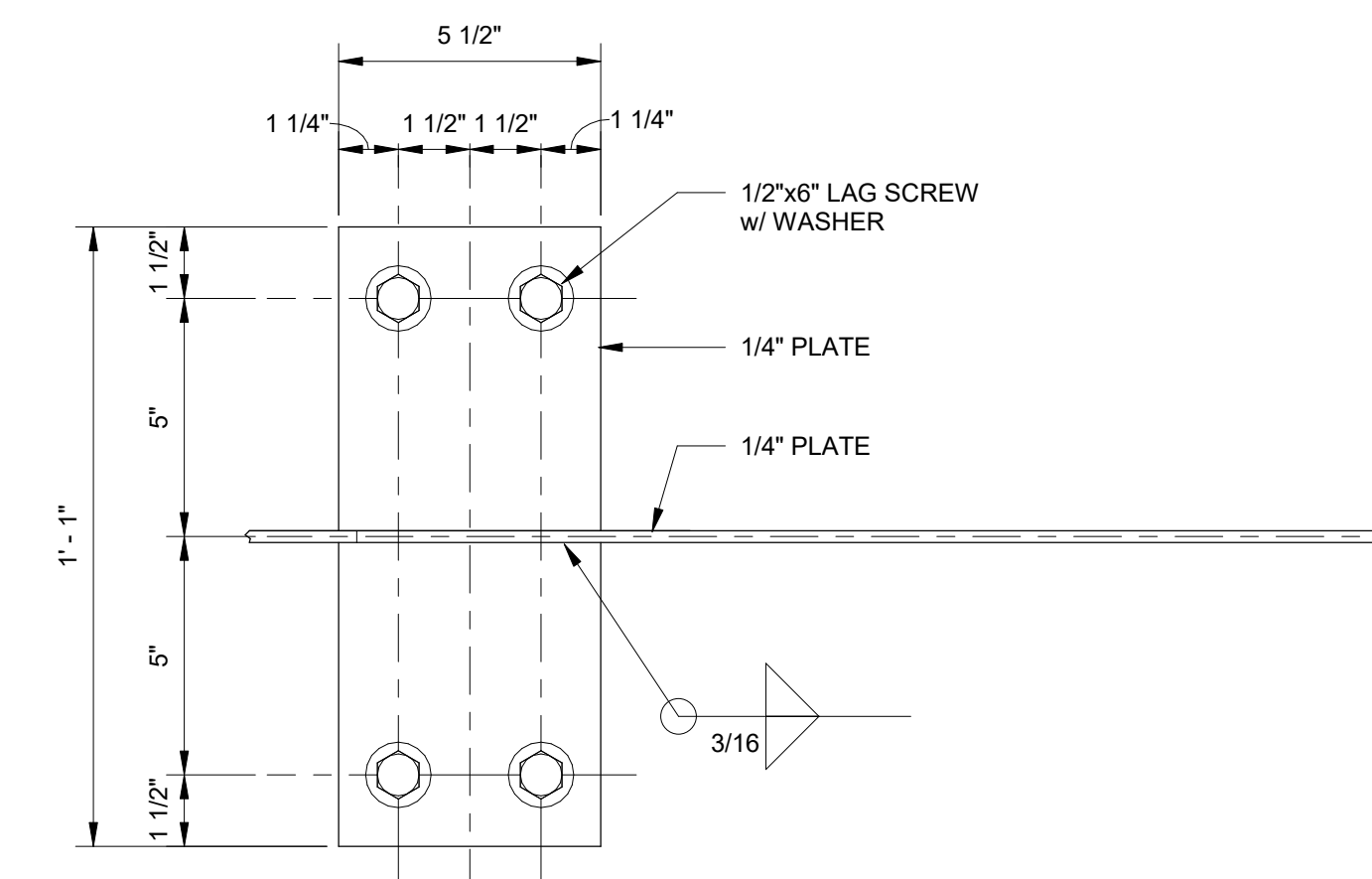
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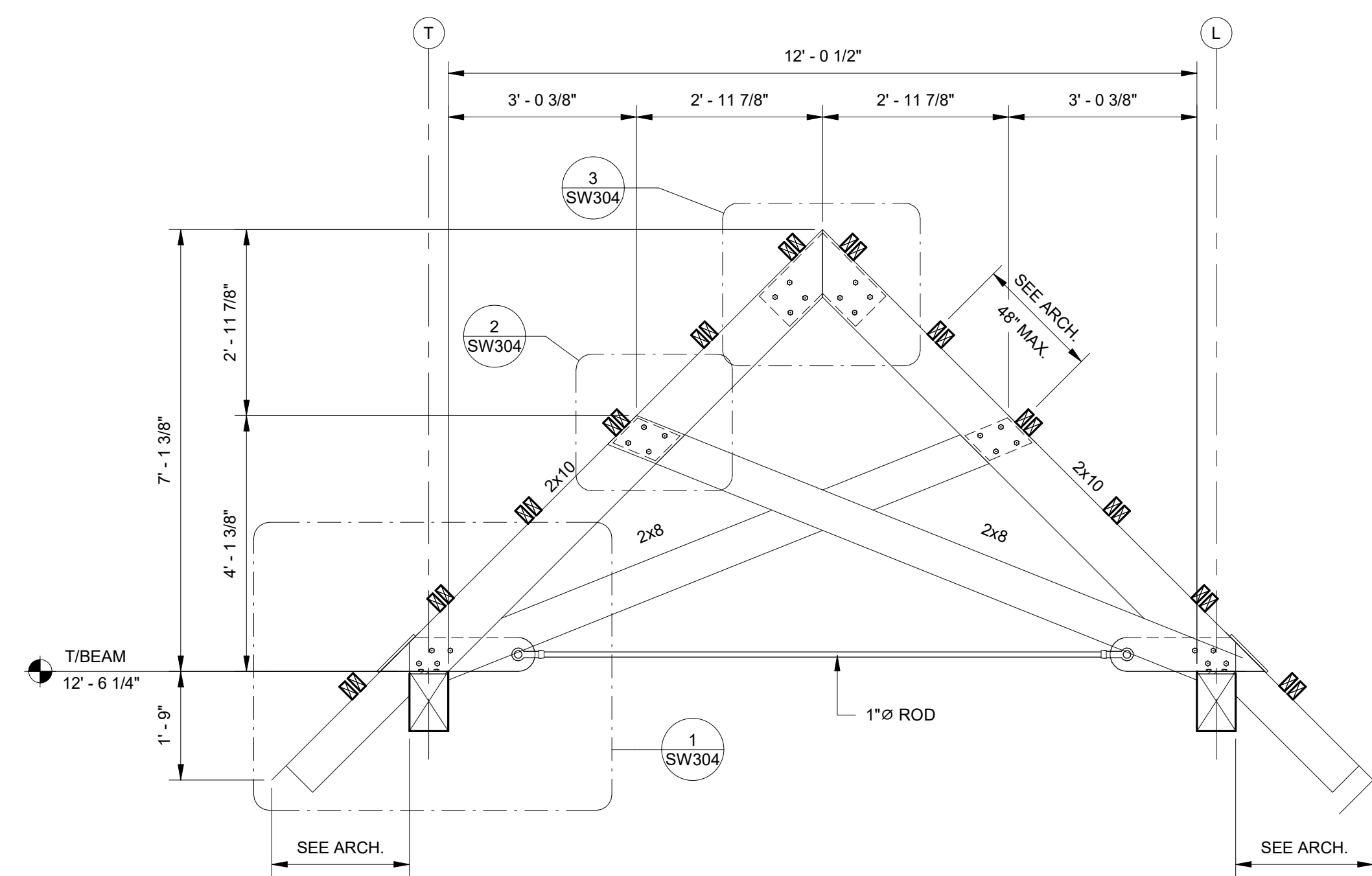
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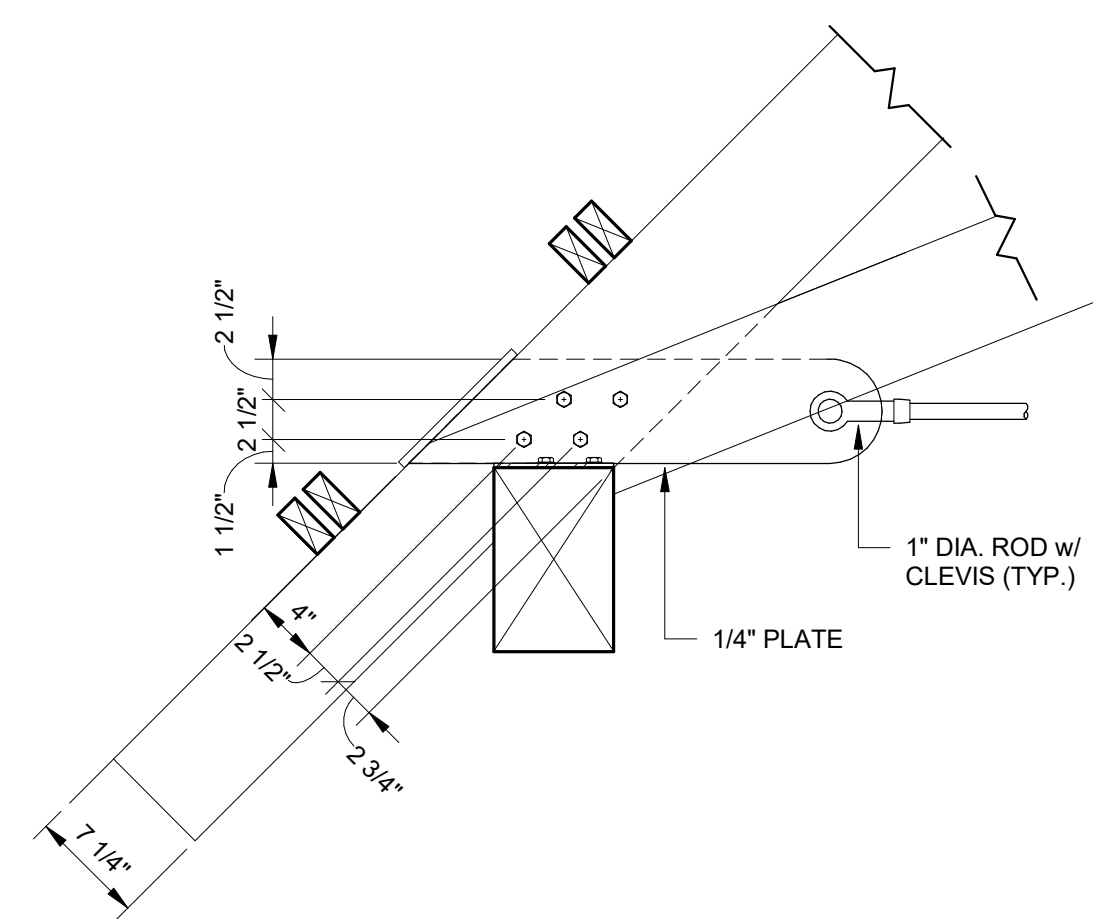
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SCALE: 3" = 1'-0"



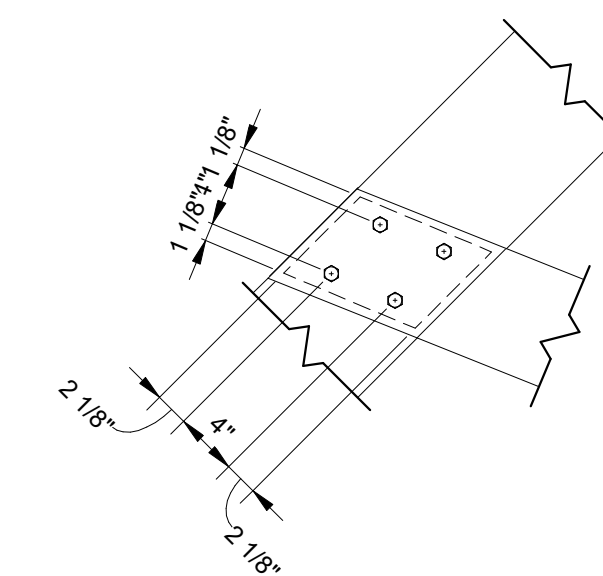
TRUSS SEAT PLATE DETAIL - SW-7
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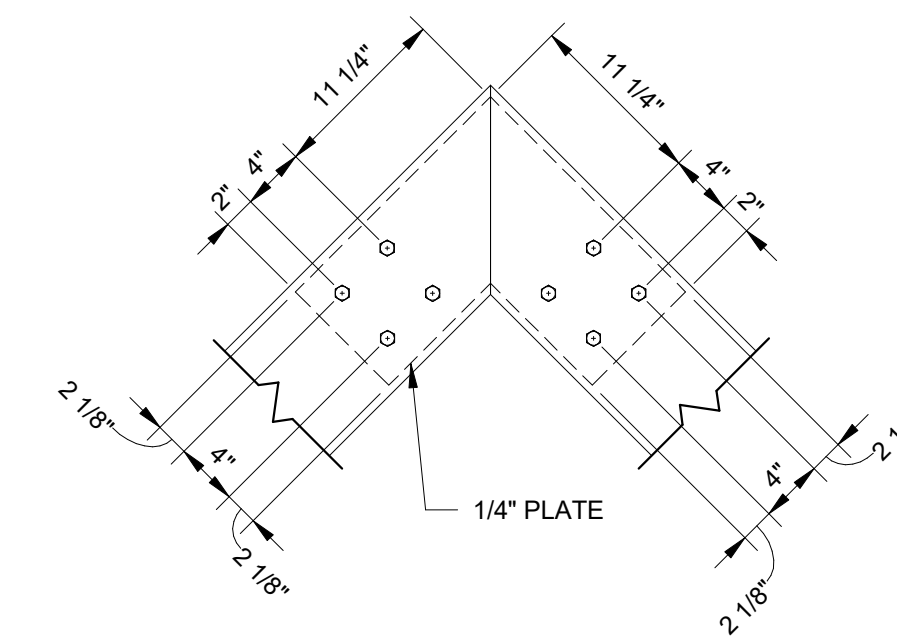
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SCALE: 1/2" = 1'-0"



1 DETAIL
SW304 SCALE: 1" = 1'-0"



2 DETAIL
SW304 SCALE: 1" = 1'-0"



3 DETAIL
SW304 SCALE: 1" = 1'-0"

No.	Date	Revision	Description

JOB
20-1101-0049

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

SHEET NAME
TRUSS ELEVATIONS

SHEET NO.
SW304

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION
	-CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-ROUND DIFFUSER
	-CEILING RETURN
	-CEILING EXHAUST
	-CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
	-RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
	-REVISION REFERENCE
	-DETAIL REFERENCE, TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON
	-THERMOSTAT/TEMPERATURE SENSOR
	-HUMIDISTAT/HUMIDITY SENSOR
	-DUCT SMOKE DETECTOR
	-CONNECT TO EXISTING
	-DEMOLISH TO POINT INDICATED
	-MOTORIZED CONTROL DAMPER
	-TEMPERATURE SENSOR
	-PRESSURE SENSOR
	-BACKDRAFT DAMPER
	-NEUTRAL RELATIVE PRESSURE
	-POSITIVE RELATIVE PRESSURE
	-NEGATIVE RELATIVE PRESSURE
	-SHEET NOTE CALLOUT
	-SHEET NOTE CALLOUT
	-SHEET NOTE CALLOUT
	-CEILING MOUNTED ACCESS DOOR
	-SQUARE THROAT ELBOW WITH TURNING VANES
	-RADIUS ELBOW
	-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF
	-EXHAUST DUCT UP THROUGH SLAB W/ FAN ON ROOF ABOVE
	-EXHAUST FAN ON ROOF W/ DUCT DOWN THROUGH ROOF

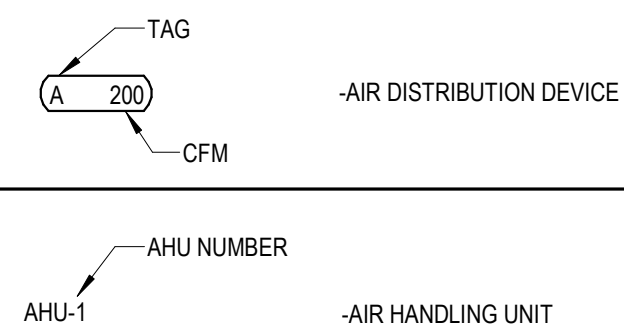
SYMBOL	DESCRIPTION
	-FIRE DAMPER (WITH ACCESS PANEL)
	-FIRE & SMOKE DAMPER (WITH ACCESS PANEL)
	-SOUND ATTENUATOR
	-MOTOR OPERATED CONTROL DAMPER (MOD)
	-AIR FLOW MEASURING STATION
	-MANUAL BALANCING DAMPER
	-DOOR GRILLE
	-UNDERCUT DOOR
	-ACCESS DOORS, VERTICAL OR HORIZONTAL
	-STAINLESS STEEL DUCTWORK
	-FLEXIBLE CONNECTION
	-NEW FLAT OVAL DUCT
	-NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN
	-EXISTING DUCTWORK TO REMAIN
	-EXISTING DUCTWORK TO BE REMOVED
	-DUCT ELBOW, POSITIVE PRESSURE (SUPPLY), FIRST DIMENSION INDICATES SIDE TO WHICH ARROW IS POINTING
	-DUCT ELBOW, EXHAUST
	-DUCT ELBOW, NEGATIVE PRESSURE, RETURN
	-DUCT ELBOW UP THROUGH ROOF OR SLAB ABOVE
	-RECTANGULAR DUCT SECTION UP, POSITIVE PRESSURE, SUPPLY OR OUTSIDE AIR
	-RECTANGULAR DUCT SECTION UP, NEGATIVE PRESSURE, RETURN
	-RECTANGULAR DUCT SECTION UP, EXHAUST
	-ROUND DUCT SECTION UP
	-FLAT OVAL DUCT SECTION UP

SYMBOL	DESCRIPTION
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED, WITH ELECTRIC HEAT
	-ELECTRIC DUCT HEATER (W/ PANEL CLEARANCE)
	-HYDRONIC REHEAT COIL
	-IN-LINE CENTRIFUGAL FAN
	-PACKAGED TERMINAL AIR CONDITIONER (PTAC)
	-CHANGE OF ELEVATION
	-FLEXIBLE DUCT
	-TRANSITION, CONCENTRIC
	-TRANSITION, ECCENTRIC
	-TRANSITION, SQUARE TO ROUND
	-SQUARE THROAT TEE
	-RADIUS TEE
	-RECTANGLE-TO-ROUND TAKE-OFF
	-STANDARD BRANCH TAKE-OFF
	-SPIN-IN TAKE-OFF

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFD	-ADJUSTABLE FREQUENCY DRIVE	LD	-LINEAR DIFFUSER
AFF	-ABOVE FINISHED FLOOR	MBH	-THOUSAND BTUs PER HOUR
AFR	-ABOVE FINISHED ROOF	MCA	-MINIMUM CIRCUIT AMPS
AHU	-AIR HANDLING UNIT	MOCOP	-MAXIMUM OVER CURRENT PROTECTION
AP	-ACCESS PANEL	MOD	-MOTOR OPERATED CONTROL DAMPER (MOD)
BOP	-BOTTOM OF PIPE	NC	-NORMALLY CLOSED
BHP	-BRAKE HORSEPOWER	NO	-NORMALLY OPEN
BTU	-BRITISH THERMAL UNIT	NTS	-NOT TO SCALE
CL	-CENTER LINE	OA	-OUTSIDE AIR
CFM	-CFM (CUBIC FEET PER MINUTE)	OAL	-OUTSIDE AIR LOUVER
CD	-CEILING DIFFUSER	PRV	-PRESSURE REDUCING VALVE
CT	-COOLING TOWER	PRS	-PRESSURE REDUCING STATION
CV	-CONSTANT AIR VOLUME	PSI	-POUNDS PER SQUARE INCH
ΔP	-CHANGE IN PRESSURE	PSIG	-PSI GAUGE
ΔT	-CHANGE IN TEMPERATURE	PTAC	-PACKAGED TERMINAL AIR CONDITIONER
CFM	-CUBIC FEET PER MINUTE	PVC	-POLYVINYL CHLORIDE PIPE
CU	-CONDENSING UNIT	RA	-RETURN AIR
DDC	-DIRECT DIGITAL CONTROLS	RHC	-REHEAT COIL
DN	-DOWN	RHP	-ROOFTOP HEAT PUMP
EAT	-ENTERING AIR TEMPERATURE	RPM	-REVOLUTIONS PER MINUTE
ESP	-EXTERNAL STATIC PRESSURE	RSIL	-REFRIGERANT SUCTION & LIQUID LINES
EWT	-ENTERING WATER TEMPERATURE	RTU	-ROOFTOP AIR HANDLING UNIT
FCU	-FAN COIL UNIT	SA	-SUPPLY AIR
FD	-FIRE DAMPER	SP	-STATIC PRESSURE
FF	-FINAL FILTERS	TSP	-TOTAL STATIC PRESSURE
FLA	-FULL LOAD AMPS	UNO	-UNLESS NOTED OTHERWISE
FPM	-FEET PER MINUTE	V/PH	-VOLTS/PHASE
GPM	-GALLONS PER MINUTE	VAV	-VARIABLE AIR VOLUME
LAT	-LEAVING AIR TEMPERATURE	VFD	-VARIABLE FREQUENCY DRIVE
LWT	-LEAVING WATER TEMPERATURE		

HVAC EQUIPMENT TAGS

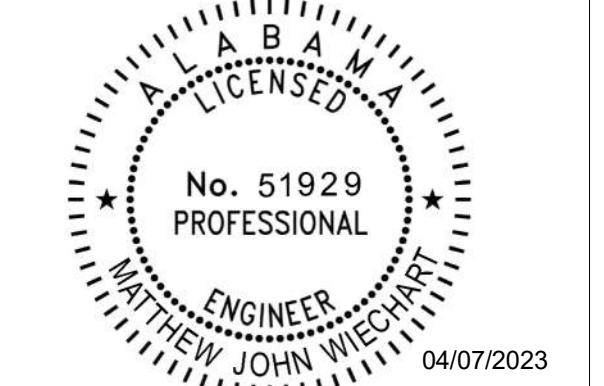


HVAC GENERAL NOTES

- CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
- DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
- SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
- PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
- DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
- COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
- LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
- ALL EQUIPMENT, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
- TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
- ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
- ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
- PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.
- PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS.
- PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
- INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.
- ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER.
- MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
- LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS.
- DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
- WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.
- UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
- SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING.
- PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.

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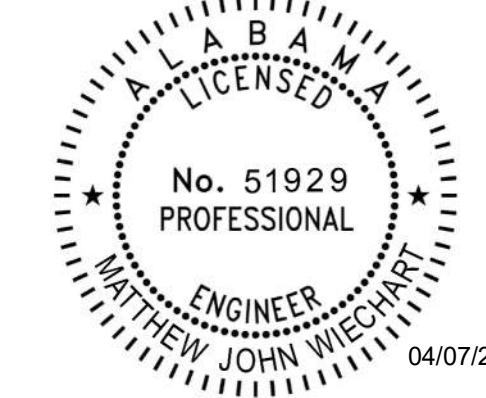
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No.	Date	Revision	Initials

JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	MECHANICAL LEGEND AND SHEET INDEX
SHEET	MW001



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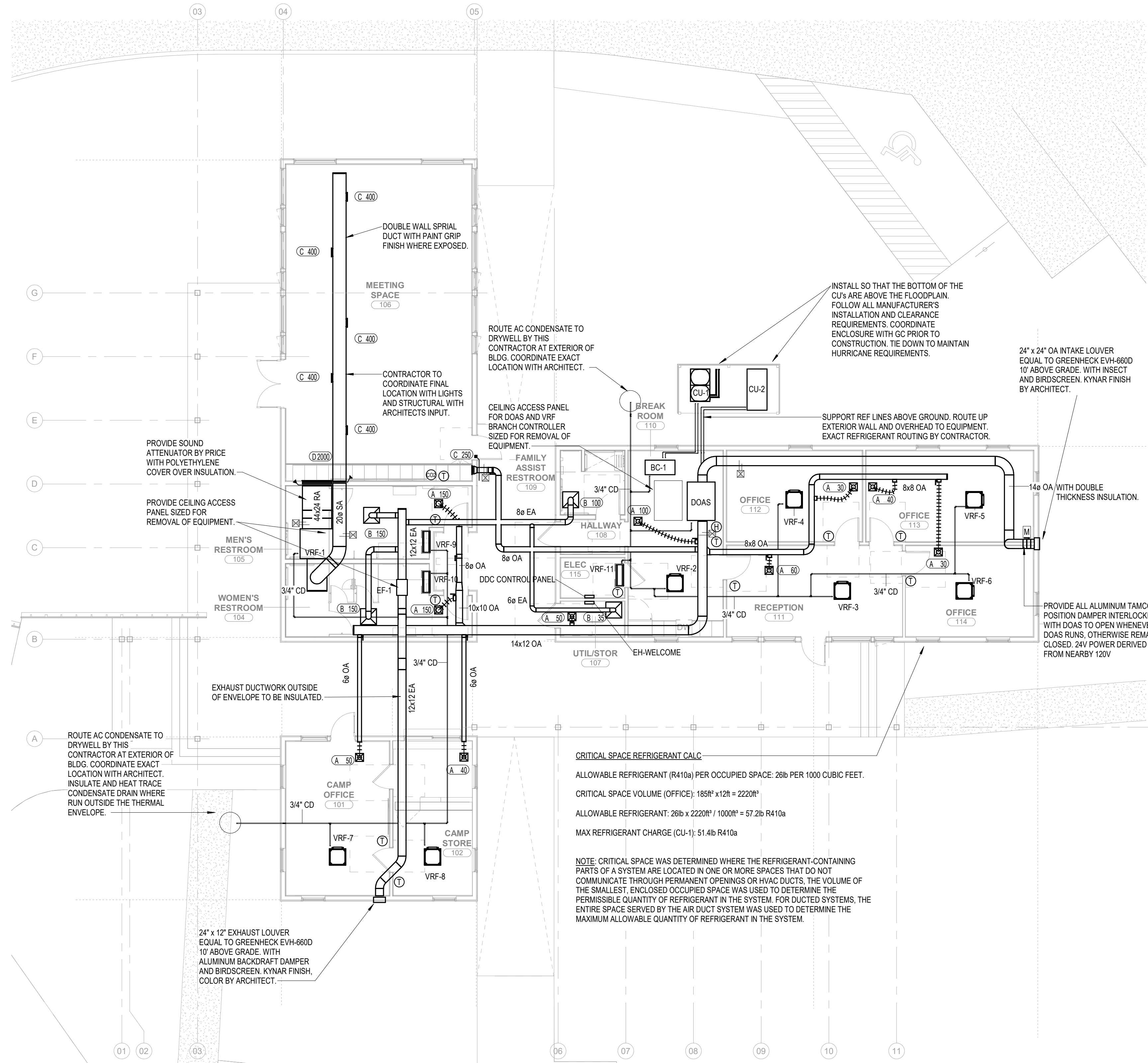
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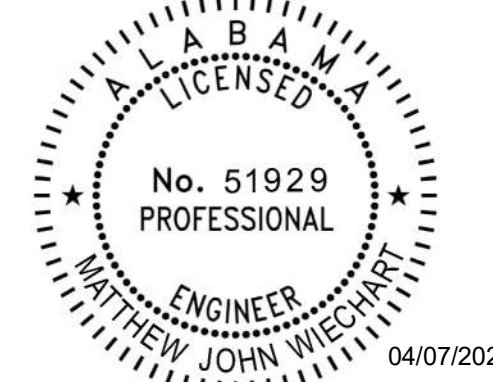
CRITICAL SPACE REFRIGERANT CALC
ALLOWABLE REFRIGERANT (R410a) PER OCCUPIED SPACE: 26lb PER 1000 CUBIC FEET.
CRITICAL SPACE VOLUME (OFFICE): 185ft³ x 12ft = 2220ft³
ALLOWABLE REFRIGERANT: 26lb x 2220ft³ / 1000ft³ = 57.2lb R410a
MAX REFRIGERANT CHARGE (CU-1): 51.4lb R410a

NOTE: CRITICAL SPACE WAS DETERMINED WHERE THE REFRIGERANT-CONTAINING PARTS OF A SYSTEM ARE LOCATED IN ONE OR MORE SPACES THAT DO NOT COMMUNICATE THROUGH PERMANENT OPENINGS OR HVAC DUCTS. THE VOLUME OF THE SMALLEST, ENCLOSED OCCUPIED SPACE WAS USED TO DETERMINE THE PERMISSIBLE QUANTITY OF REFRIGERANT IN THE SYSTEM. FOR DUCTED SYSTEMS, THE ENTIRE SPACE SERVED BY THE AIR DUCT SYSTEM WAS USED TO DETERMINE THE MAXIMUM ALLOWABLE QUANTITY OF REFRIGERANT IN THE SYSTEM.

VENTILATION CRITERIA (LVL 1)							
NAME	AREA	PEOPLE	2018 International Mechanical Code				
			CFM/PERSON	CFM/SF	OCCUPANCY CLASSIFICATION	EFFICIENCY	MINIMUM OA
BREAKROOM	280 SF	8	5	0.12	Office Buildings - Break rooms	0.8	92
CAMPUS OFFICE	254 SF	2	5	0.06	Office Buildings - Office space	0.8	32
MEETING	883 SF	30	5	0.06	General - Conference/meeting	0.8	254
OFFICE 1	197 SF	2	5	0.06	Office Buildings - Office space	0.8	27
OFFICE 2	243 SF	3	5	0.06	Office Buildings - Office space	0.8	37
OFFICE 3	185 SF	2	5	0.06	Office Buildings - Office space	0.8	26
RECEPTION	255 SF	6	5	0.06	Office Buildings - Reception areas	0.8	57
STORE	194 SF	1	8	0.12	Retail - Sales	0.8	39
	2491 SF	54					564

LEVEL 1 - WELCOME HUB - MECHANICAL
1/8" = 1'-0"

DATE	MARCH 24, 2023
PROJECT STATUS	CONFORMANCE SET
JOB	19-028.000
SHEET	WELCOME HUB MECHANICAL FLOOR PLAN
SHEET	MW100



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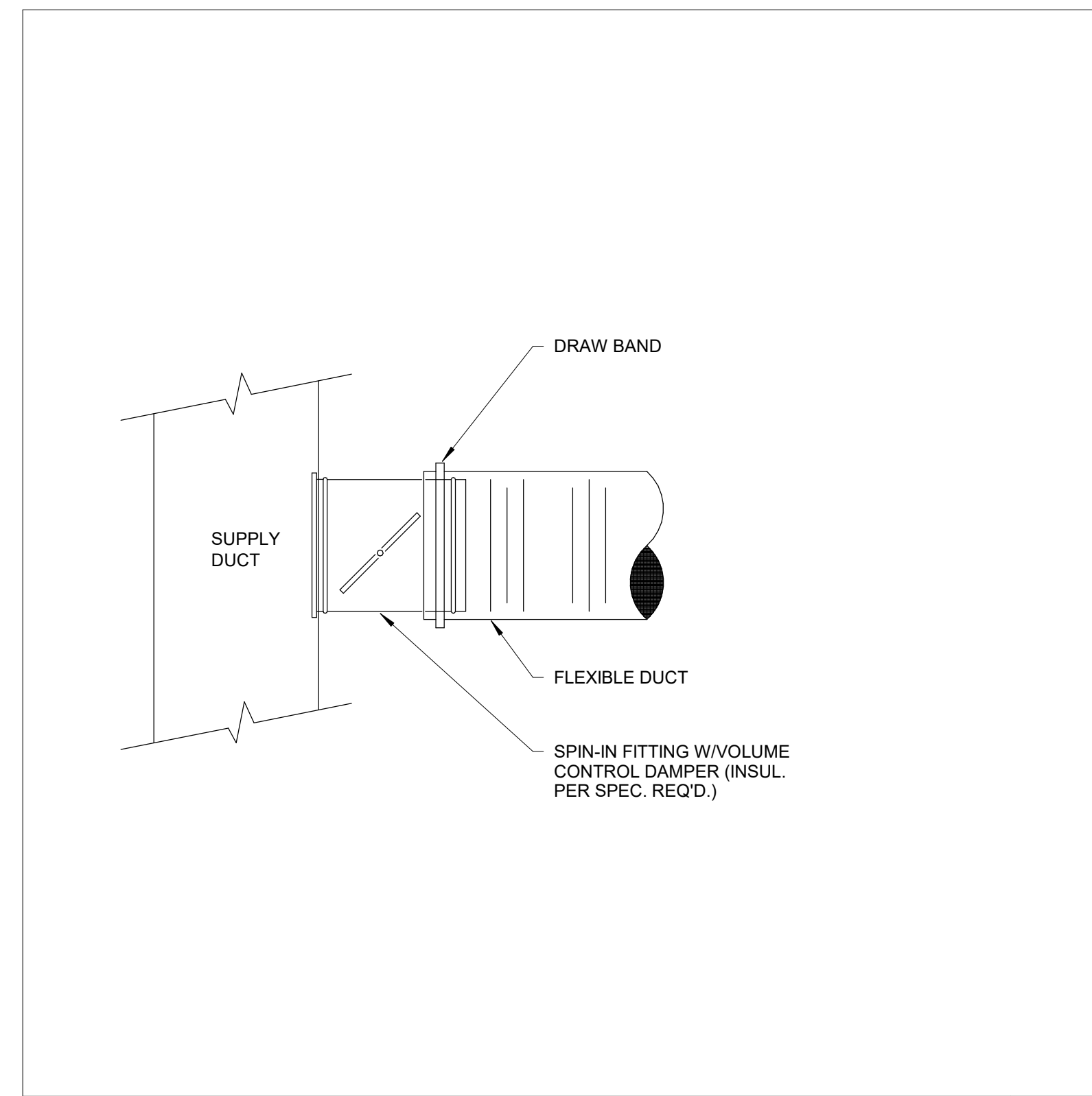
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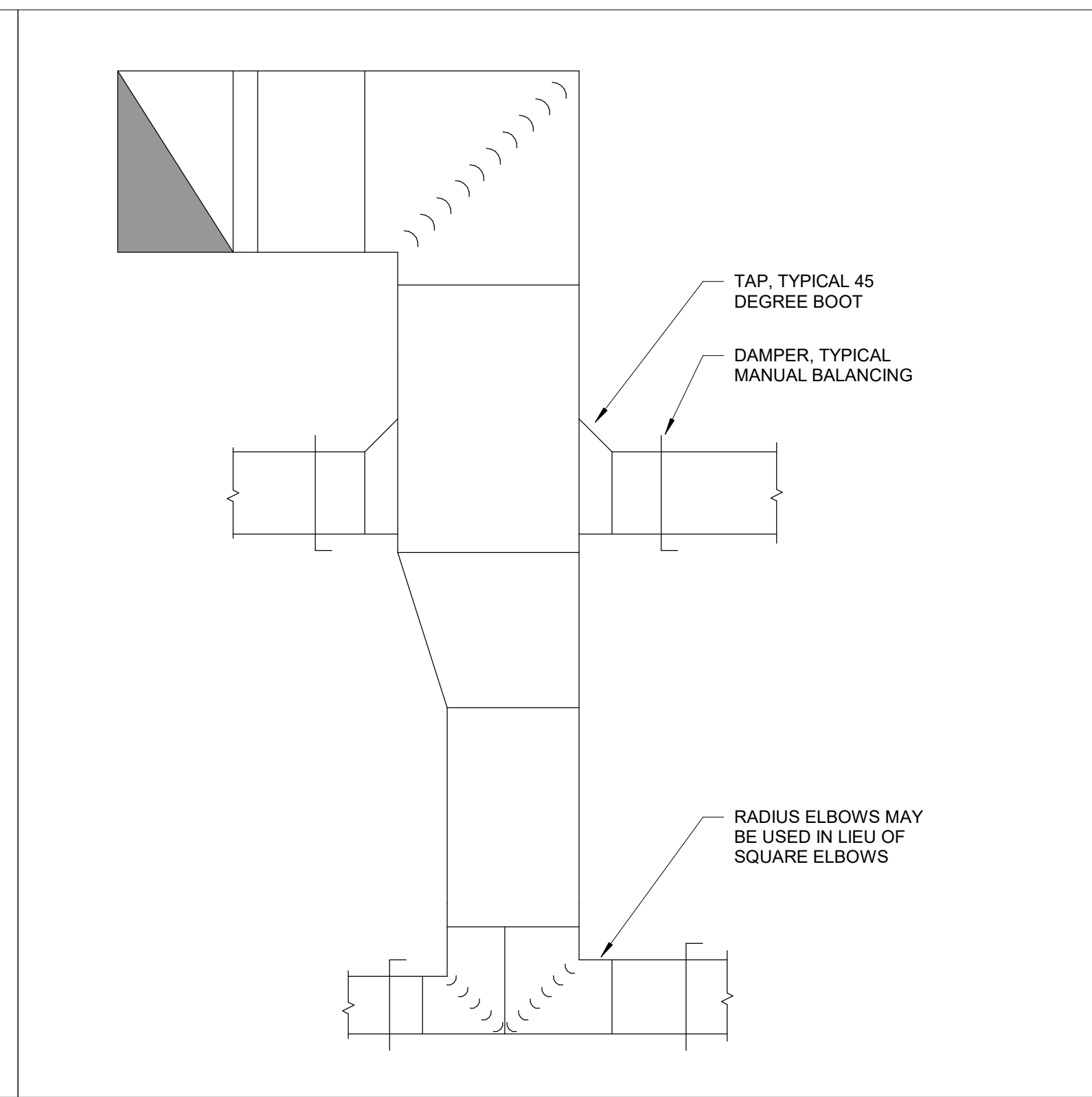
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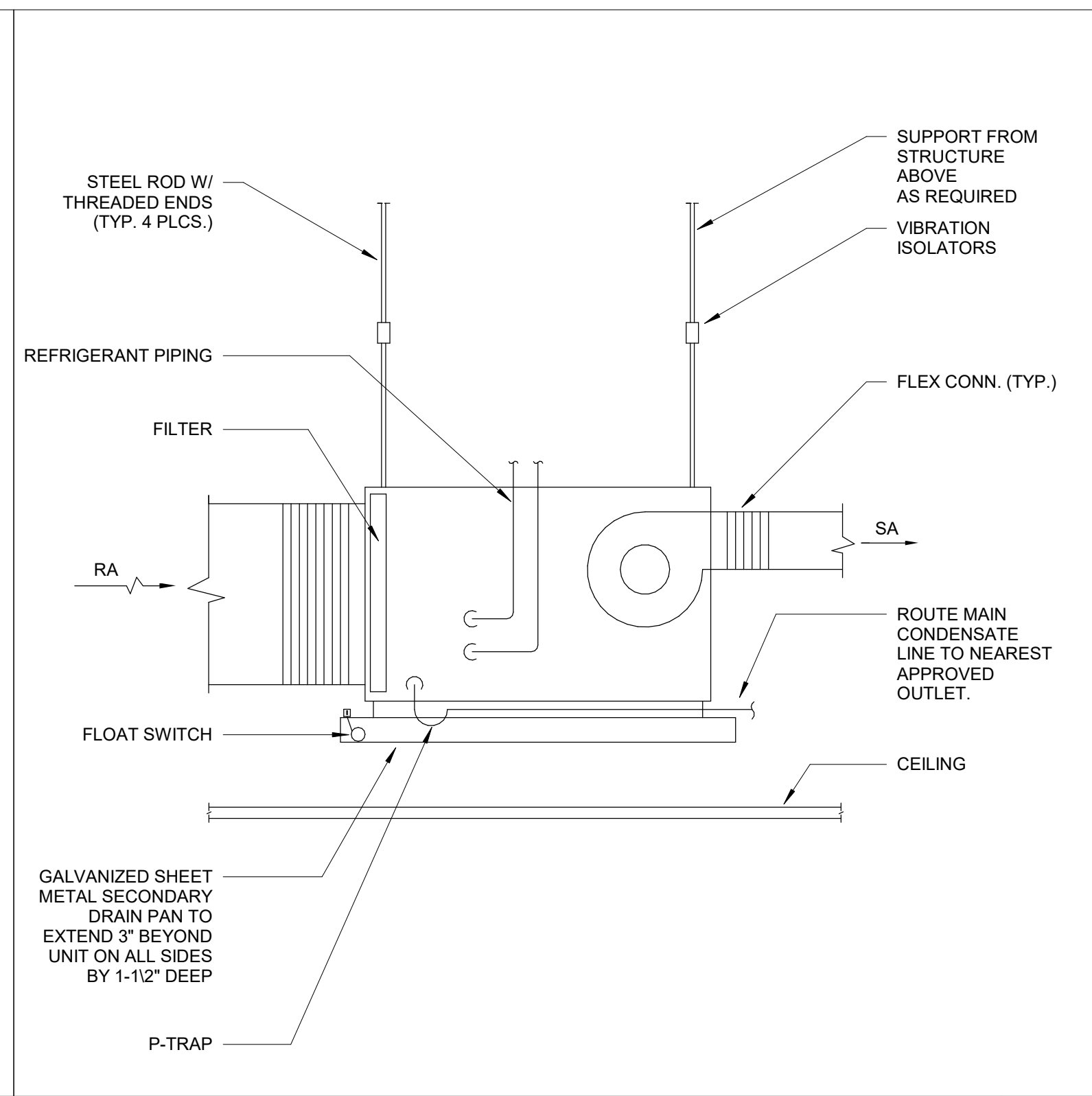
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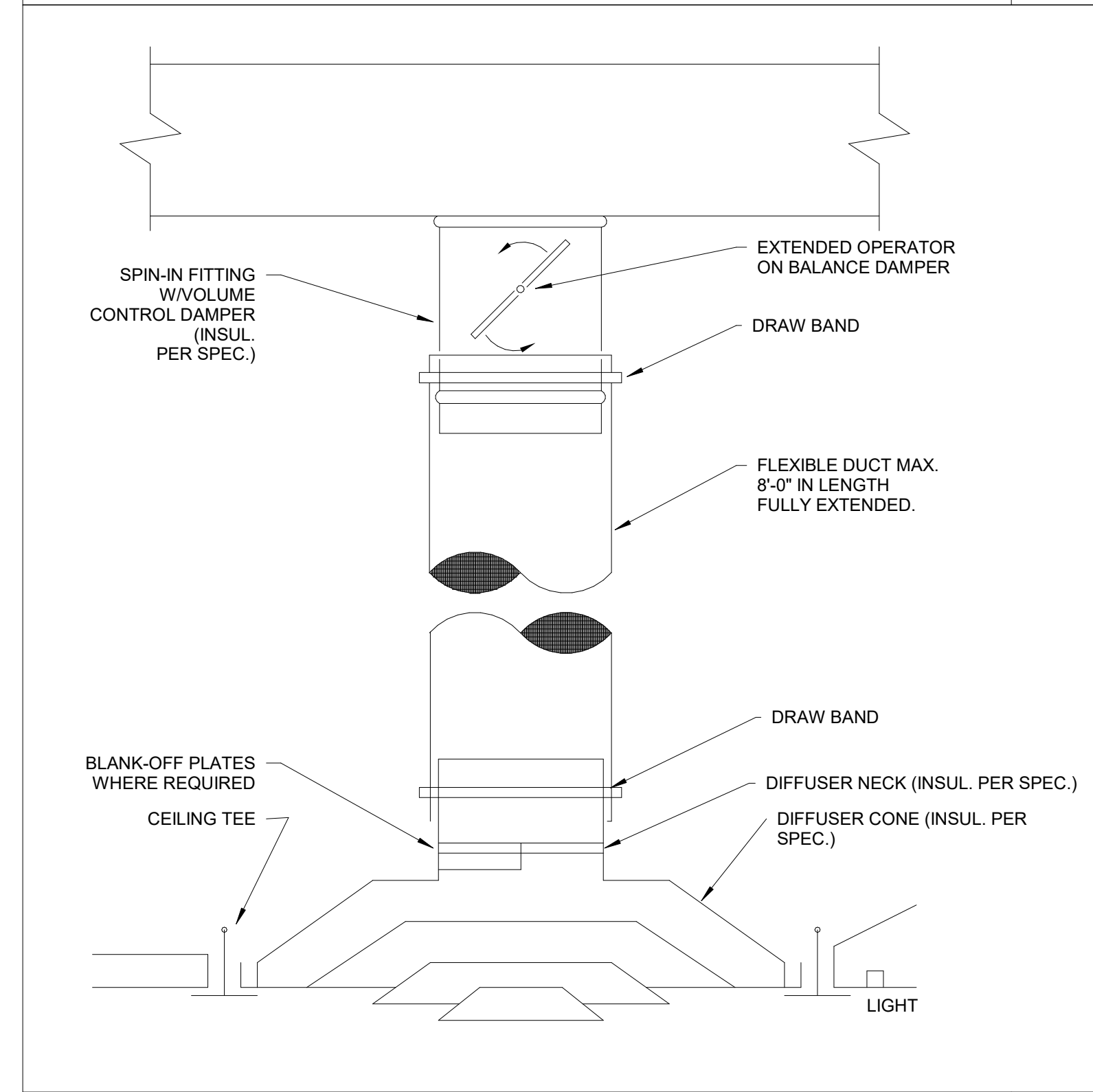
TYPICAL FLEX DUCT CONNECTION
No Scale **5**



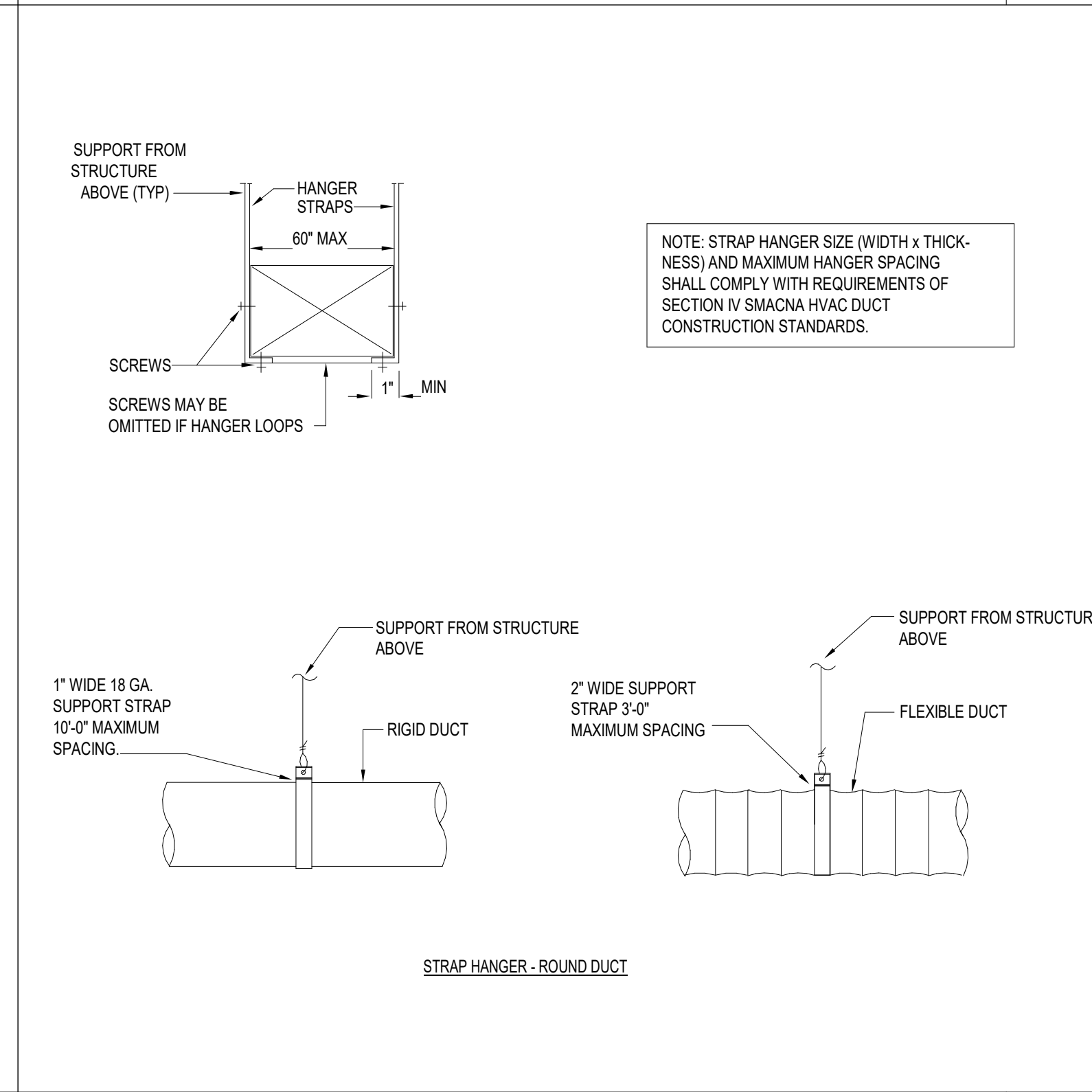
TYPICAL PRESSURE DUCTWORK
No Scale **3**



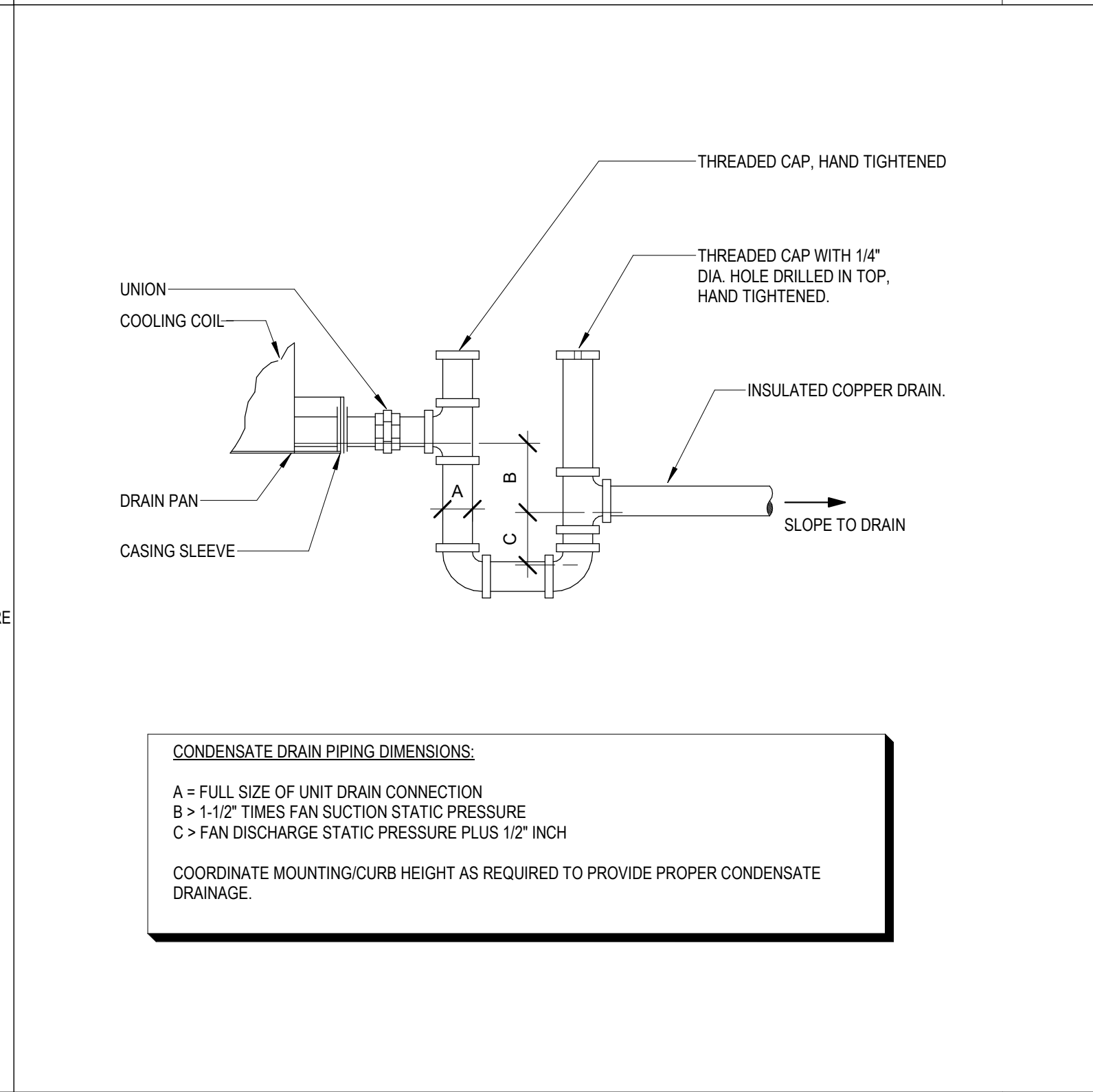
SUSPENDED FCU/AHU INSTALLATION
No Scale **1**



DIFFUSER MOUNTING
No Scale **6**



TYPICAL DUCT SUPPORT
No Scale **4**



COOLING COIL CONDENSATE DRAIN TRAP
No Scale **2**

NO.	DATE	REVISION

JOB
19-028.000
PROJECT STATUS
PERFORMANCE SET
DATE
MARCH 24, 2023

SHEET
**MECHANICAL
DETAILS**

SHEET
MW500

DATE	NO.	REVISION	INITIALS

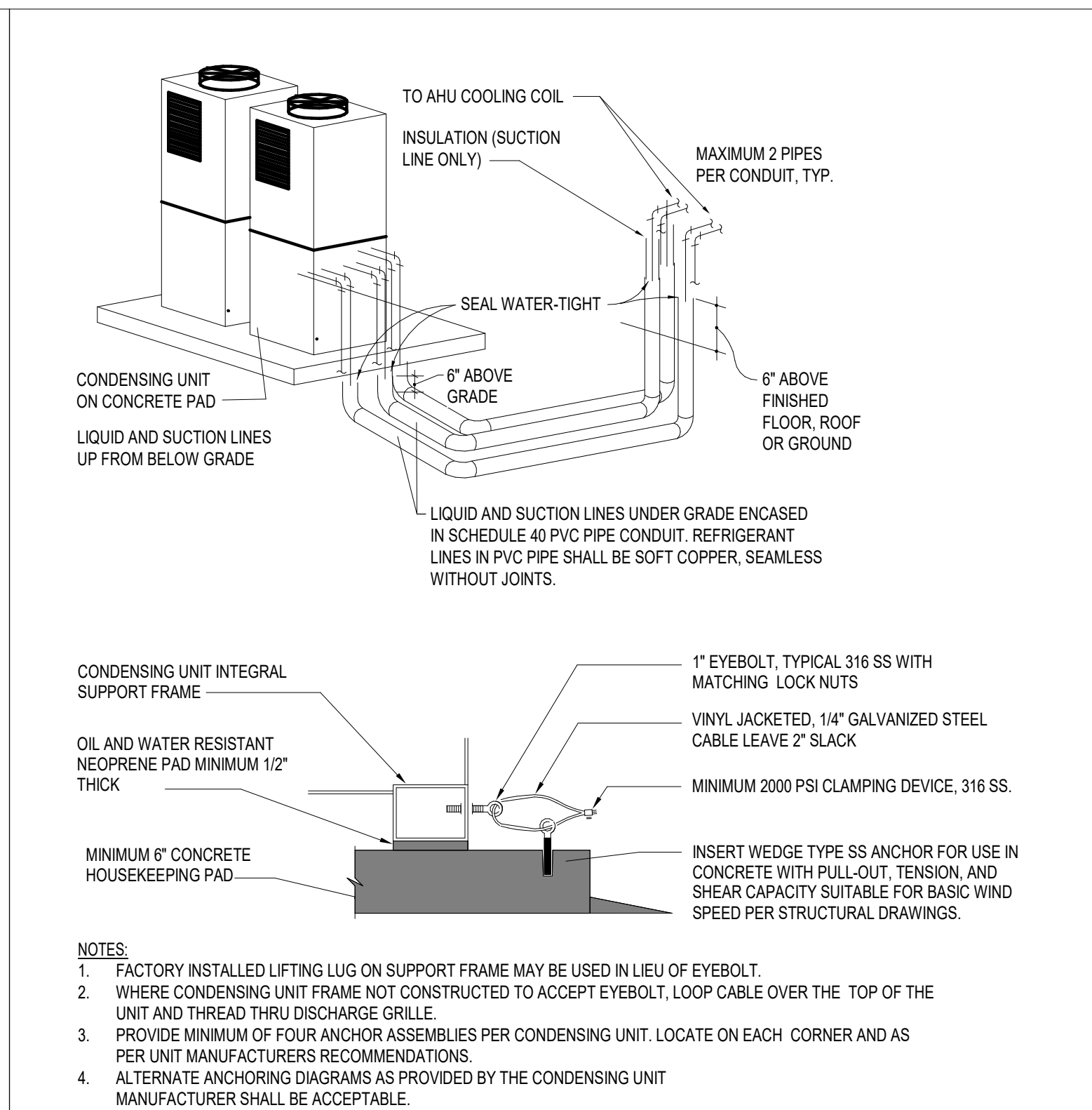
JOB
19-028.000

PROJECT STATUS
PERFORMANCE SET

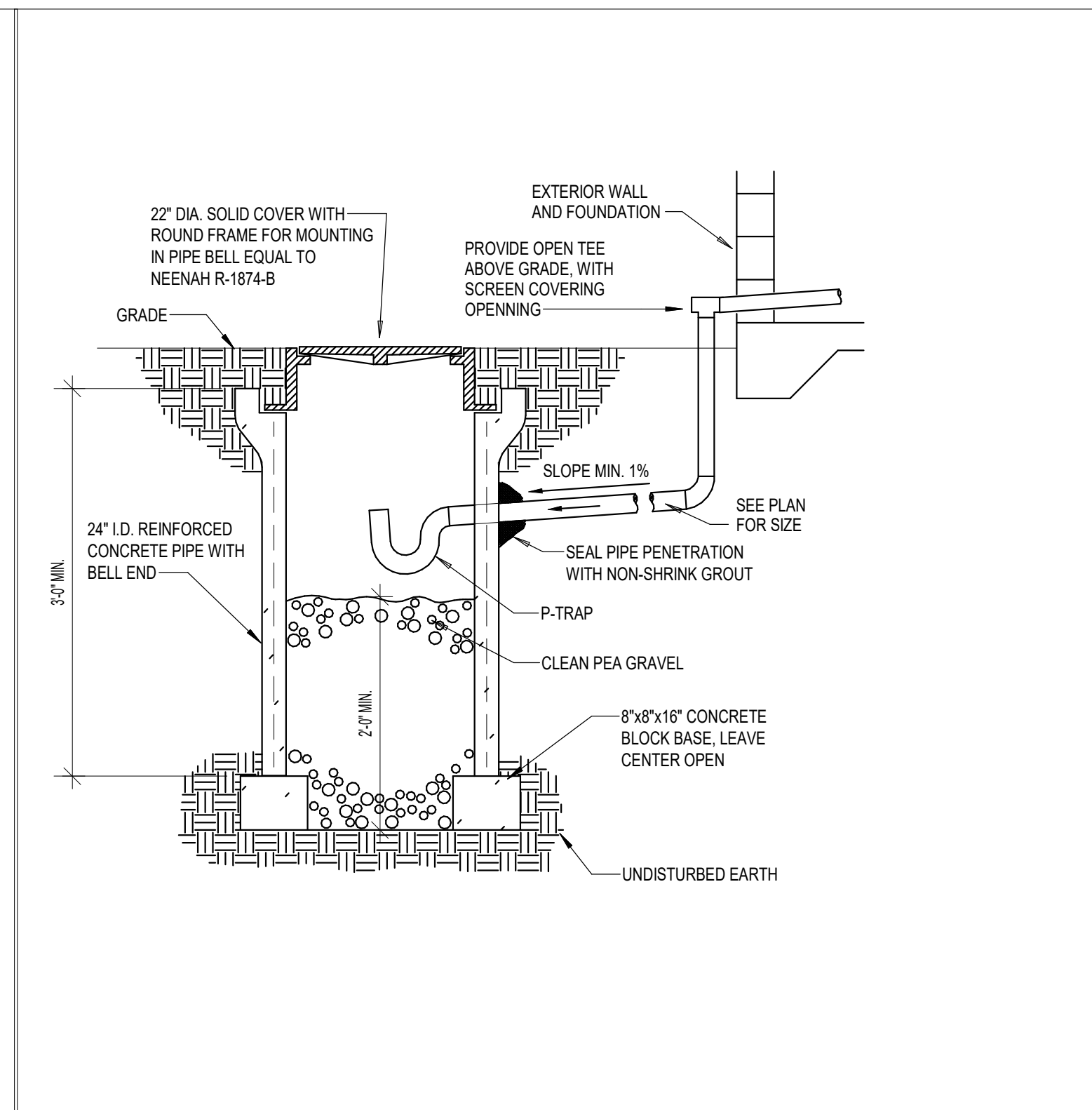
DATE
MARCH 24, 2023

SHEET
MECHANICAL
DETAILS

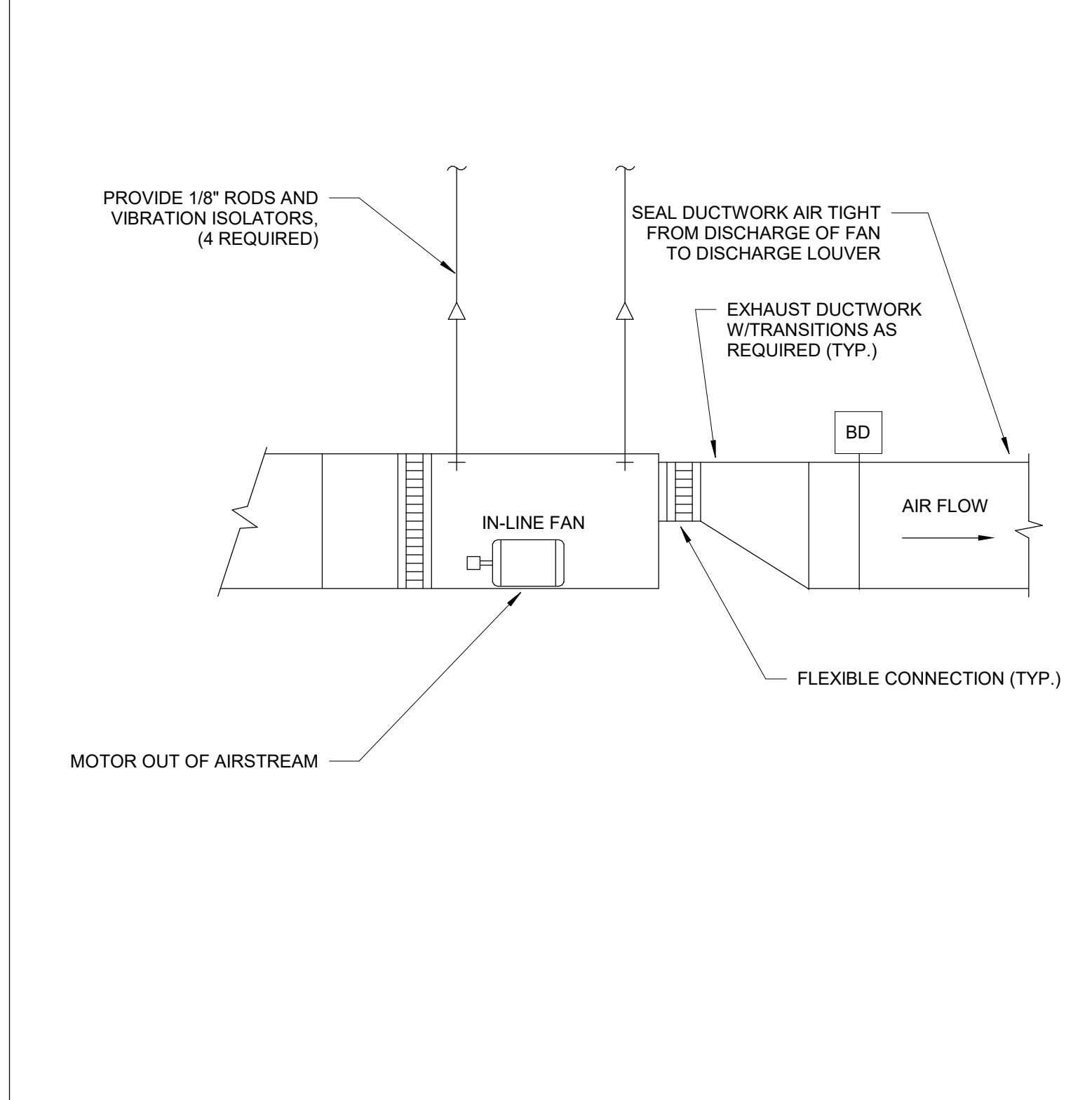
MW501



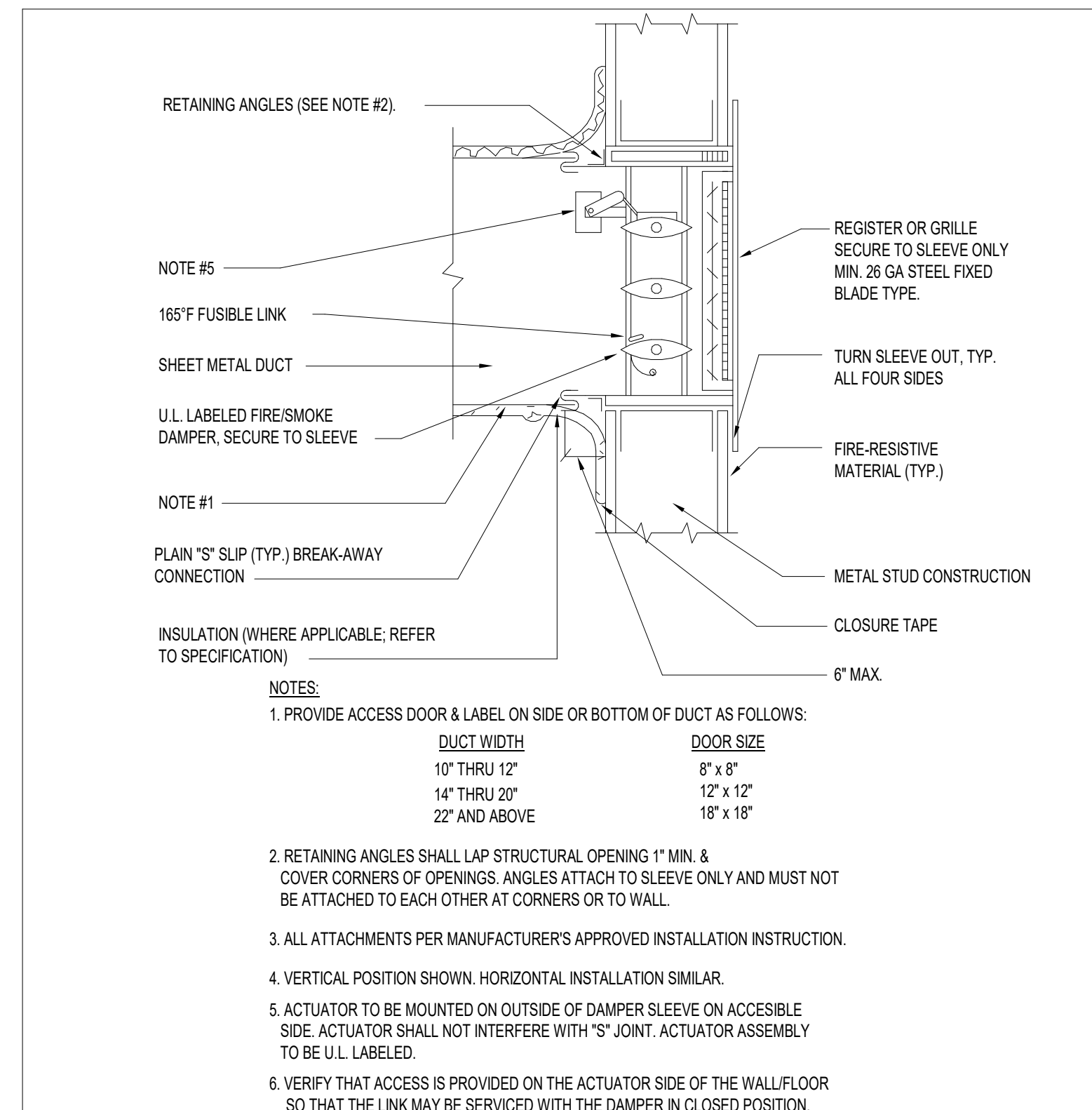
VRF - CONDENSING UNIT DIAGRAM **1**
No Scale



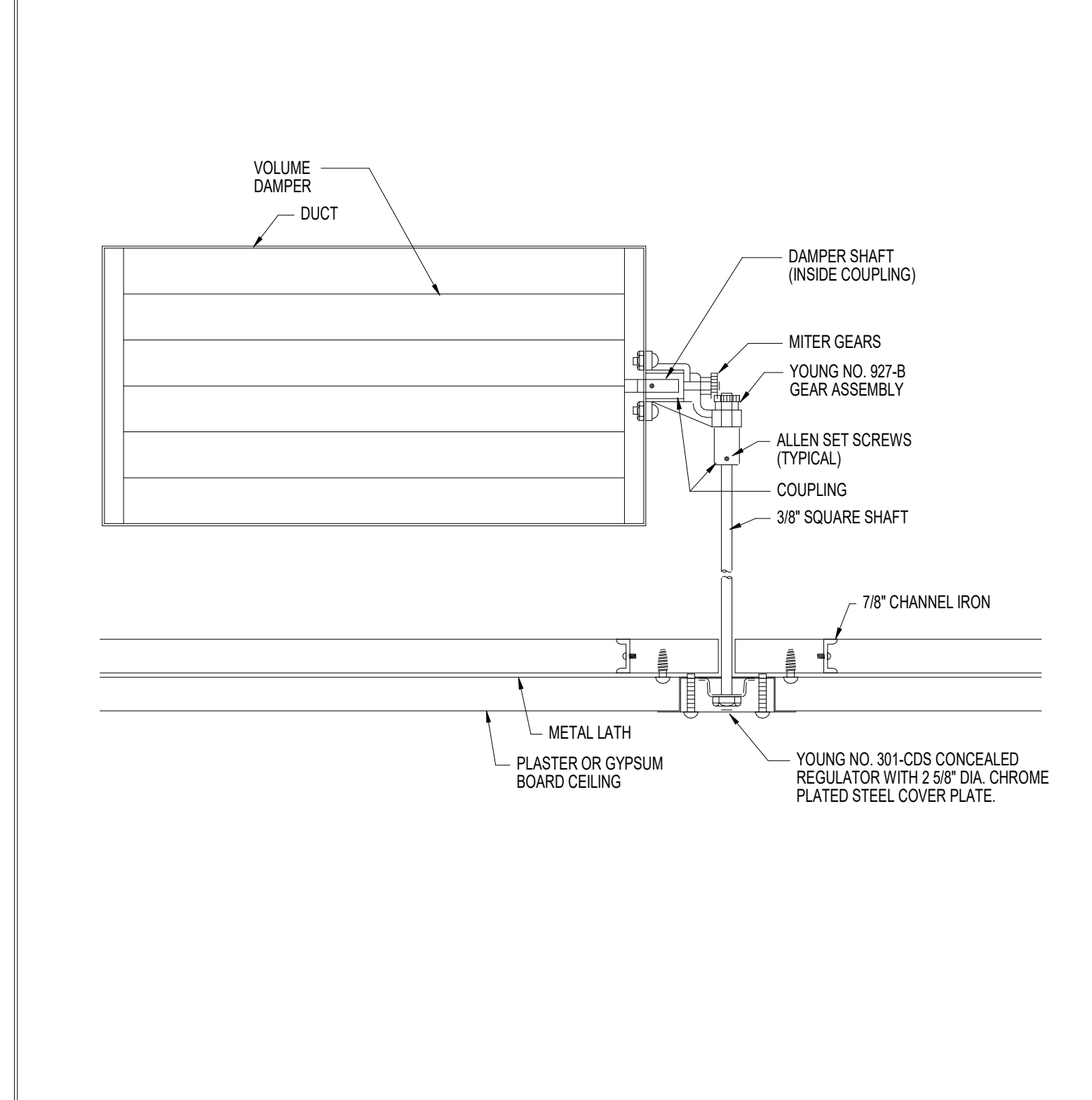
DRYWELL DETAIL (FRENCH DRAIN) WELCOME **4**
No Scale



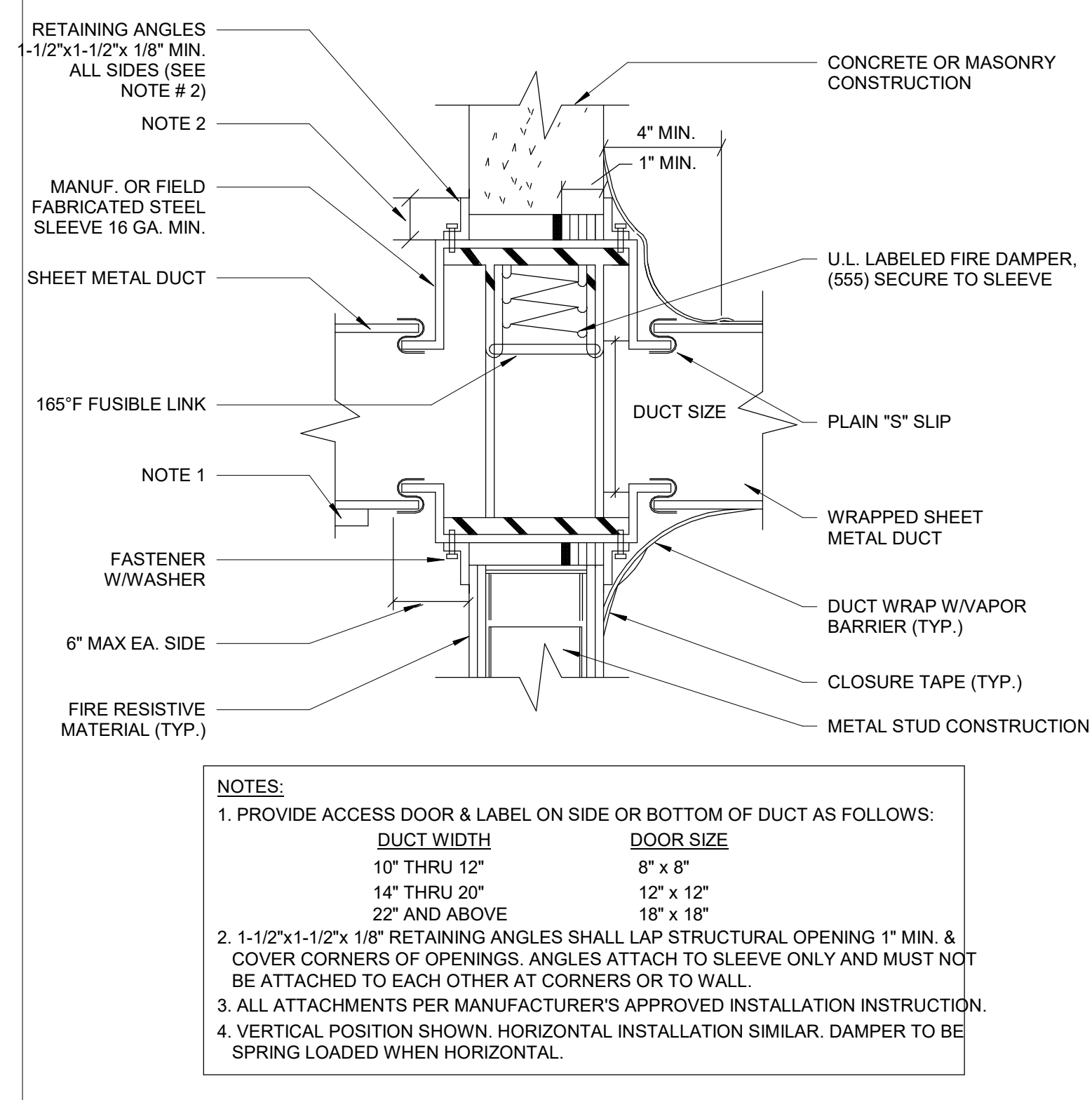
INLINE FAN - SMALL **2**
No Scale



FIRE & SMOKE DAMPER INSTALLATION AT GRILLE **5**
No Scale



REMOTE DAMPER OPERATOR **3**
No Scale



FIRE DAMPER INSTALLATION **6**
No Scale

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TOILET EXHAUST CONTROL

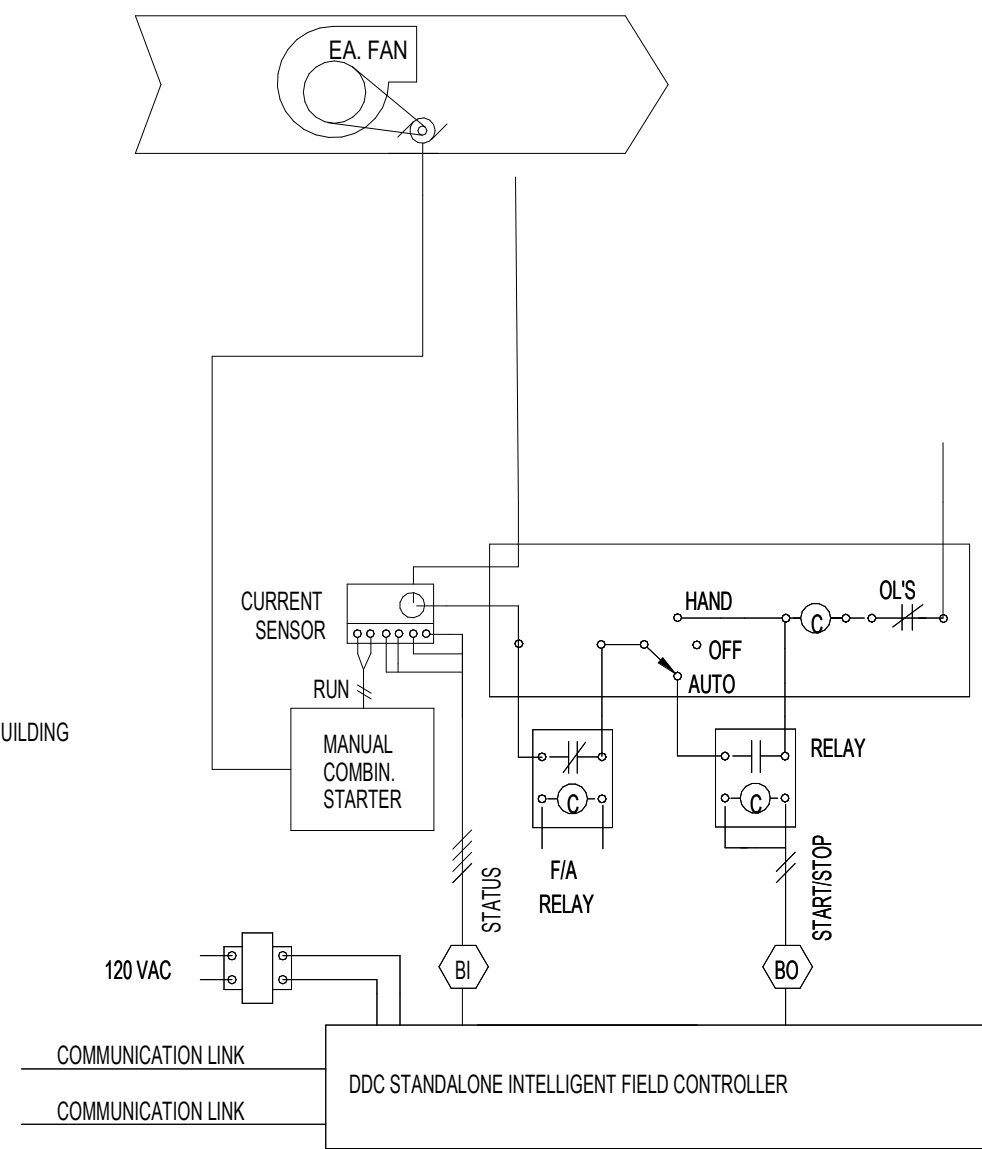
GENERAL SYSTEM IS OF THE CONSTANT AIR VOLUME TYPE.

A. START-STOP

THE EXHAUST FAN SHALL BE STARTED & STOPPED DURING OCCUPIED & UNOCCUPIED PERIODS BY THE BUILDING AUTOMATION SYSTEM (BAS) BASED ON A TIME OF DAY SCHEDULE.

A GRAVITY BACKDRAFT DAMPER IN THE FAN SHALL OPEN & CLOSE WITH FAN OPERATION.

ALL MOTOR CONTROLLERS SHALL BE IN THE AUTO POSITION.



CONSTANT VOLUME OUTSIDE AIR UNIT

SEQUENCE OF OPERATION

GENERAL

THE SYSTEM IS OF THE DX CONSTANT VOLUME FLOW TYPE COMPLETE WITH A DEDICATED OUTDOOR AIR SPLIT SYSTEM UNIT. THE SYSTEM IS COMPLETE WITH FANS, COILS, AND CONTROLS.

PROVIDE A DEDICATED, STANDALONE INTELLIGENT FIELD CONTROLLER FOR EACH UNIT. PROVIDE RESIDENT IN EACH CONTROLLER INDEPENDENTLY ADJUSTABLE PID CONTROL LOOPS FOR THE FOLLOWING FUNCTIONS:

FAN CONTROL TEMPERATURE CONTROL HUMIDITY & TEMPERATURE OVERRIDE CONTROL OUTSIDE AIR DAMPER CONTROL

PROVIDE A SEPARATE HEATING AND COOLING (BOTH DAY AND NIGHT) SETPOINT SCHEDULE FOR EACH UNIT.

PROVIDE CUSTOMIZED GRAPHICS SCREENS DEPICTING UNIT OPERATION, COMPLETE WITH ALL REQUIRED FIELD ADJUSTABLE PARAMETERS, UNIT STATUS DATAPPOINTS, ALARM POINTS, ETC... (ADDRESSES TO BE PROVIDED IN SUBMITTAL FOR ALL POINTS INDICATED IN DIAGRAM)

AHU FAN AND DAMPER CONTROL

WHEN SCHEDULED 'ON' VIA THE TIME OF DAY (TOD) SCHEDULE (WITH OPTIMUM START/STOP), NIGHT SETBACK LIMITS, TIMED OVERRIDE, OR AS MANUALLY REQUESTED BY THE OPERATOR, THE SUPPLY AND EXHAUST FANS OF UNIT SHALL BE ENERGIZED AND RUN CONTINUOUSLY.

THE UNIT SUPPLY FAN VARIABLE FREQUENCY DRIVE (VFD) SHALL BE USED FOR BALANCING AND OTHERWISE BE RUN AT CONSTANT SPEED.

OUTSIDE AIR SETPOINT SHALL BE CONSTANT AND BE PROVIDED WHEN UNIT IS OCCUPIED MODE. MODULATE DAMPER TO MAINTAIN SCHEDULED OUTSIDE AIR. CLOSE OUTSIDE AIR DAMPER WHEN UNIT IS IN UNOCCUPIED MODE.

PROVIDE EMS DISPLAY AND ALARMS FOR:

- SUPPLY FAN START/STOP - SUPPLY FAN STATUS - CURRENT SENSOR - SUPPLY FAN SPEED - SUPPLY FAN FAILED TO START - ALARM - SUPPLY AIR TEMP (°F) AND SETPOINT - BUILDING AVERAGE DIFFERENTIAL PRESSURE - SUPPLY FANS FAILED TO START ALARM - SPACE AIR RELATIVE HUMIDITY (%RH) - ALL MOTORIZED DAMPER POSITIONS - COOLING COIL LEAVING AIR TEMP °F - GLOBAL OUTDOOR AIR TEMPERATURE °F - O.A. RELATIVE HUMIDITY - SUPPLY AIR TEMP. FAILS TO REACH TEMP. WITHIN 5 DEG. OF TEMP. SETPOINT. - OUTDOOR AIR FLOW (CFM) - O.A FLOW BELOW SETPOINT (OCCUPIED ONLY) - ALARM - SPACE TEMPERATURE EXCEEDS 80°F. (ADJ.) - ALARM - HEATING SUPPLY AIR TEMPERATURE & SETPOINT - SPACE HUMIDITY EXCEEDS SETPOINT - ALARM - SPACE TEMPERATURE - SPACE RELATIVE HUMIDITY (%) - ALL OTHER POINTS INDICATED - DDC LOOP PARAMETERS

TEMPERATURE CONTROL

THE COOLING COIL COMPRESSOR SHALL MODULATE TO MEET CHANGING LOAD, CONTINUOUSLY VARIABLE FROM 10% TO 100% OF LOAD. SEE BELOW FOR COOLING REQUIREMENT FOR DEHUMIDIFICATION. AT LEAST ONE COMPRESSOR SHALL MODULATE CONTINUOUSLY TO ALLOW FOR 100% CONTINUOUS MODULATION THROUGH UNIT'S ENTIRE CAPACITY RANGE.

- WHEN THE OA TEMPERATURE IS BELOW 52 DEG. F (ADJ.), INCOMING AIR TO BE HEATED TO MAINTAIN SUPPLY AIR TEMPERATURE OF 70 DEG. F (ADJ.) - WHEN THE OA TEMPERATURE IS BETWEEN 52 DEG. F AND 75 DEG. F (ADJ.) INCOMING AIR TO BE COOLED TO 52 DEG. F (ADJ.) AND REHEAT VIA MODULATING HOT GAS REHEAT COIL TO 70 DEG. F. - WHEN THE OA TEMPERATURE IS ABOVE 75 DEG. F (ADJ.), INCOMING AIR TO BE COOLED TO MAINTAIN SUPPLY AIR TEMPERATURE OFF COOLING COIL OF 52 DEG. F (OFF UNIT SUPPLY 55 DEG. F).

HUMIDITY CONTROL (55% RH ADJ.)

UPON SPACE AIR HUMIDITY SENSOR ABOVE SETPOINT (55% RH ADJUSTABLE) COOLING COIL DISCHARGE AIR TEMPERATURE SHALL BE RESET TO DESIGN COOLING TEMPERATURE AND HOT GAS-REHEAT COIL(S) SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE. WHEN RELATIVE HUMIDITY IS 5% BELOW MAXIMUM SETPOINT.

MISCELLANEOUS CONTROL

THE SUPPLY, EXHAUST AND OUTSIDE AIR FANS, AND ASSOCIATED DAMPERS (CONTROL, FIRE/SMOKE, ETC.), SHALL SHUT DOWN WHEN ANY AUTOMATIC OR MANUAL FIRE ALARM DEVICE IS PLACED INTO ALARM BY THE BUILDING FIRE ALARM CONTROL PANEL. UPON FIRE ALARM PANEL BEING RESET TO NORMAL OPERATION, THE EMS SYSTEM SHALL AUTOMATICALLY RESUME SCHEDULED OPERATION OF THE UNIT, AND DAMPERS.

ON SENSING OF CONDENSATE OVERFLOW, SHUT UNIT FAN DOWN AND CLOSE CONTROL VALVE, SEND ALARM TO MAINTENANCE.

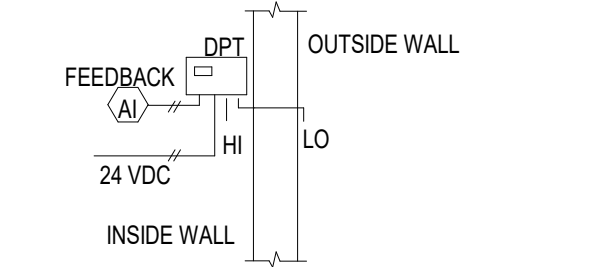
PROVIDE FIXED DRYBULB ECONOMIZER MODE. PROVIDE SEQUENCE TO ALLOW FREE COOLING. (65 DEG. ADJ.) SUBJECT TO HUMIDITY CONTROL SEQUENCE. (DEHUMIDIFICATION SEQUENCE OVERRIDES ECONOMIZER MODE)

PROVIDE CO2 SENSOR IN WELCOME HUB MEETING SPACE. PROVIDE ALARM TO MAINTENANCE WHENEVER CO2 LEVELS EXCEED 1000 PPM SETPOINT (ADJ.)

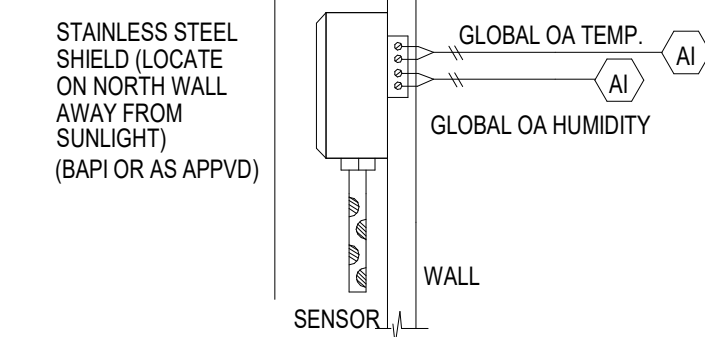
CONTROL DIAGRAM FOR CONSTANT VOLUME TOILET EXHAUST FAN

CONTROL DIAGRAM FOR CONSTANT VOLUME DEDICATED OUTDOOR AIR UNIT AND ERV (RTU-3, 4)

MISCELLANEOUS ENERGY MANAGEMENT CONTROL - DDC ALL CONTROL DAMPERS AND BACKDRAFT DAMPERS TO BE ALL ALUMINUM CONSTRUCTION (FRAME AND BLADES - NO EXCEPTIONS). MANUAL VOLUME DAMPERS TO BE SAME AS DUCT MATERIAL. DAMPERS FOR OA INTAKE SHALL BE FAIL CLOSED UNLESS NOTED OTHERWISE. CONTROLS CONTRACTOR TO PROVIDE ALL SOFTWARE, HARDWARE, PROGRAMMING, LABOR AND ACCOMPANYING EQUIPMENT TO ENABLE THE BELOW SEQUENCES TO BE CONTROLLED BY THE DDC SYSTEM. DDC SYSTEM SHALL BE INTEGRATED WITH REST OF CAMPUS SYSTEM SO ALL CONTROL POINTS, ALARMS AND ADJUSTABLE VARIABLES ARE AVAILABLE FROM ANY COMPUTER TERMINAL WITH INTERNET ACCESS AND THE PROPER SECURITY CODE. ALL ALARMS SHALL NOTIFY MAINTENANCE PERSONNEL. PROVIDE UPS BACKUP ON BUILDING LEVEL DDC SYSTEM TO ALLOW RIDE THRU OF A MINIMUM OF 10 MINUTE POWER LOSS. CONTROL SCHEMATICS MUST BE LOADED ON BAS SERVER DATABASE AT END OF PROJECT AND LINK PROVIDED ON THE BAS GRAPHIC INTERFACE THAT REPRESENTS THIS PROJECT. PROPRIETARY VRF/VRV SYSTEMS SHALL BE PROVIDED WITH A BACNET GATEWAY INTEGRATOR WITH THE ABILITY TO COMMUNICATE WITH THE DDC SYSTEM, THAT ALLOWS FULL FUNCTION CONTROL AND MONITORING OF VRF/VRV SYSTEM. MONITORING/ADJUSTMENT SHALL INCLUDE OCCUPANCY SCHEDULE, HEATING/COOLING SETPOINTS, ALARMS, ETC.



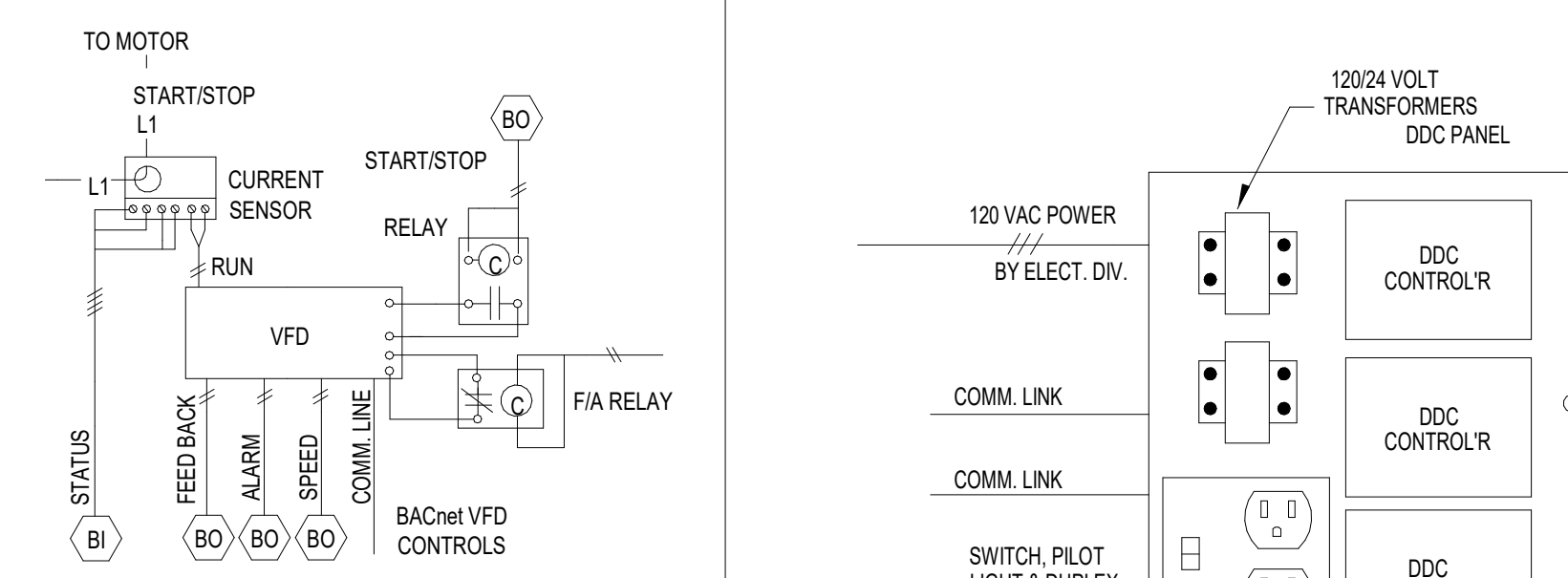
CONTROL DIA. BLDG. PRESSURE



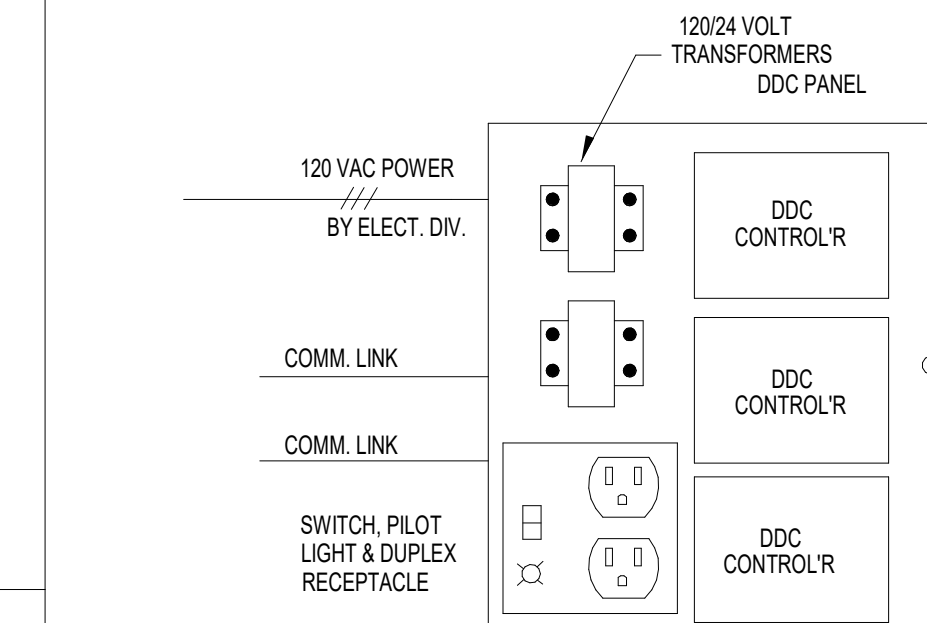
GLOBAL OA TEMP/HUMID SENSOR

- (BI) BINARY/DIGITAL INPUT (BO) BINARY/DIGITAL OUTPUT (AI) ANALOG INPUT (AO) ANALOG OUTPUT (DPS) DIFFERENTIAL PRESSURE SWITCH (DPS) OR TRANSMITTER (DPT) PUMP

CONTROL DIAGRAM LEGEND



TYPICAL VFD WIRING DIAGRAM

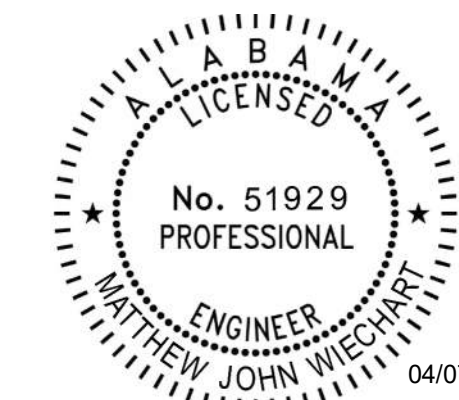


TYPICAL DDC CONTROLLER ENCLOSURE

MISCELLANEOUS CONTROL ITEMS

Table with columns for Date, No., Job, Project Status, Date, Sheet, and Job No. (19-028.000)

MW600



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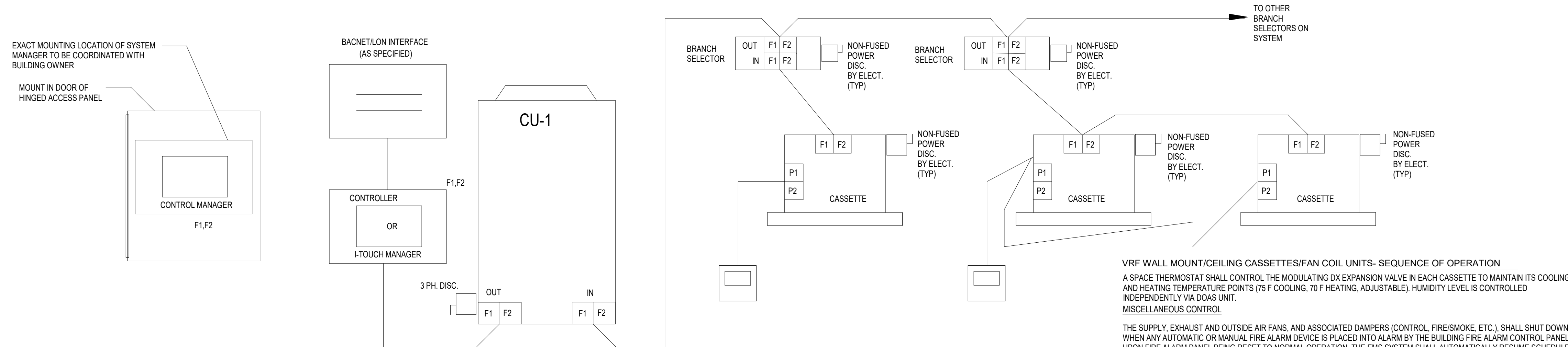
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Revision	Date	By

JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	MECHANICAL CONTROLS
SHEET	MW601



HEAT RECOVERY SYSTEM CENTRAL CONTROL / NETWORK WIRING NOMENCLATURE

(REFER TO MANUFACTURER'S INSTRUCTIONS)

VRF WALL MOUNT/CEILING CASSETTES/FAN COIL UNITS- SEQUENCE OF OPERATION

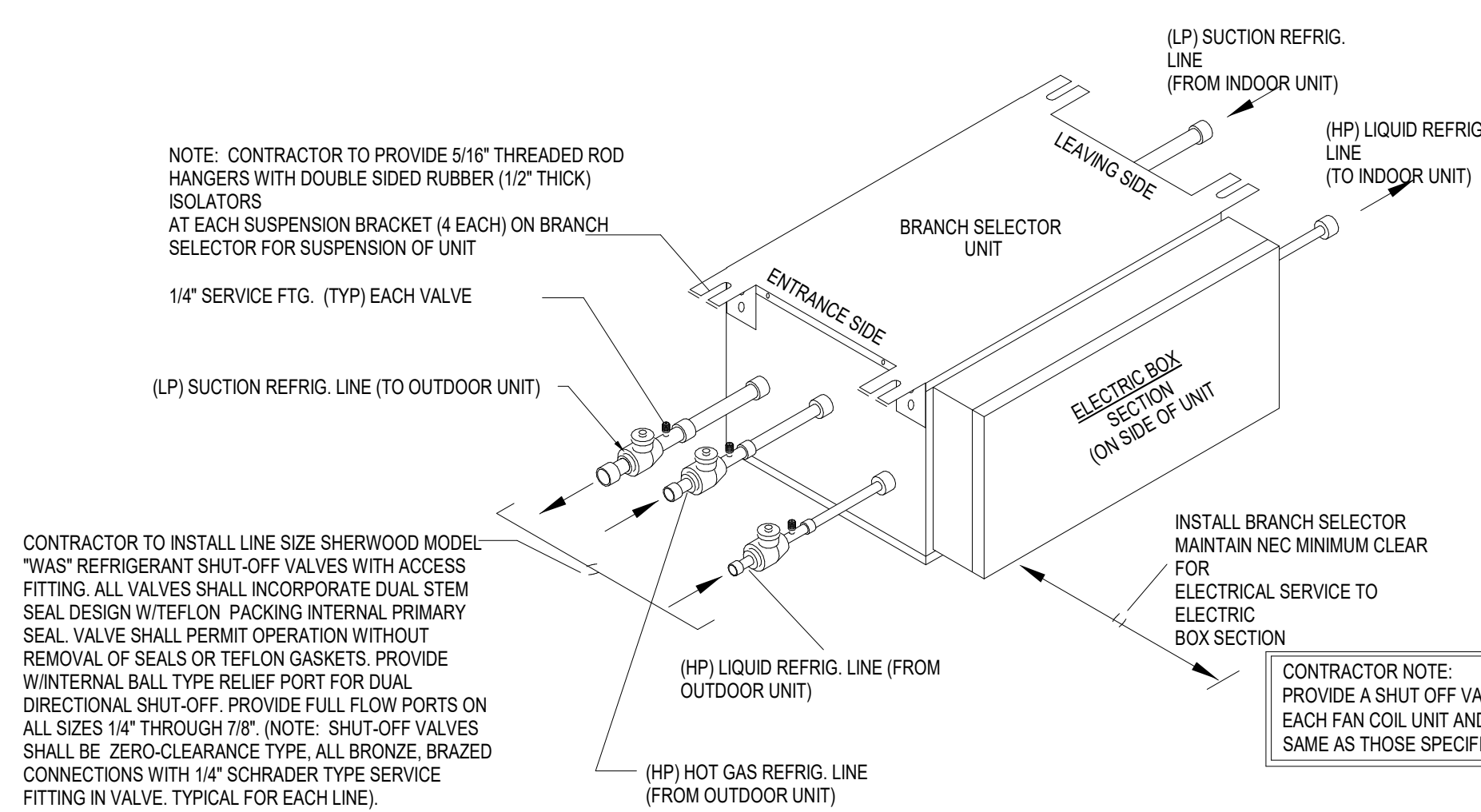
A SPACE THERMOSTAT SHALL CONTROL THE MODULATING DX EXPANSION VALVE IN EACH CASSETTE TO MAINTAIN ITS COOLING AND HEATING TEMPERATURE POINTS (75 F COOLING, 70 F HEATING, ADJUSTABLE). HUMIDITY LEVEL IS CONTROLLED INDEPENDENTLY VIA DOAS UNIT.
MISCELLANEOUS CONTROL
THE SUPPLY, EXHAUST AND OUTSIDE AIR FANS, AND ASSOCIATED DAMPERS (CONTROL, FIRE/SMOKE, ETC.) SHALL SHUT DOWN WHEN ANY AUTOMATIC OR MANUAL FIRE ALARM DEVICE IS PLACED INTO ALARM BY THE BUILDING FIRE ALARM CONTROL PANEL UPON FIRE ALARM PANEL BEING RESET TO NORMAL OPERATION. THE EMS SYSTEM SHALL AUTOMATICALLY RESUME SCHEDULED OPERATION OF THE UNIT, AND DAMPERS.
ON SENSING OF CONDENSATE OVERFLOW, SHUT UNIT FAN DOWN AND CLOSE CONTROL VALVE, SEND ALARM TO MAINTENANCE.

NOTES:

1. MAINTAIN A MINIMUM OF 3" SEPARATION BETWEEN CONTROL WIRING AND POWER WIRING TO AVOID INTERFERENCES.
2. ALL DISCONNECT SWITCHES AND WIRING PROVIDED BY THE ELECTRICAL DIVISION.
3. CONTROL WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATION. (ie: 16/2 STRANDED, NON-SHIELDED COPPER)

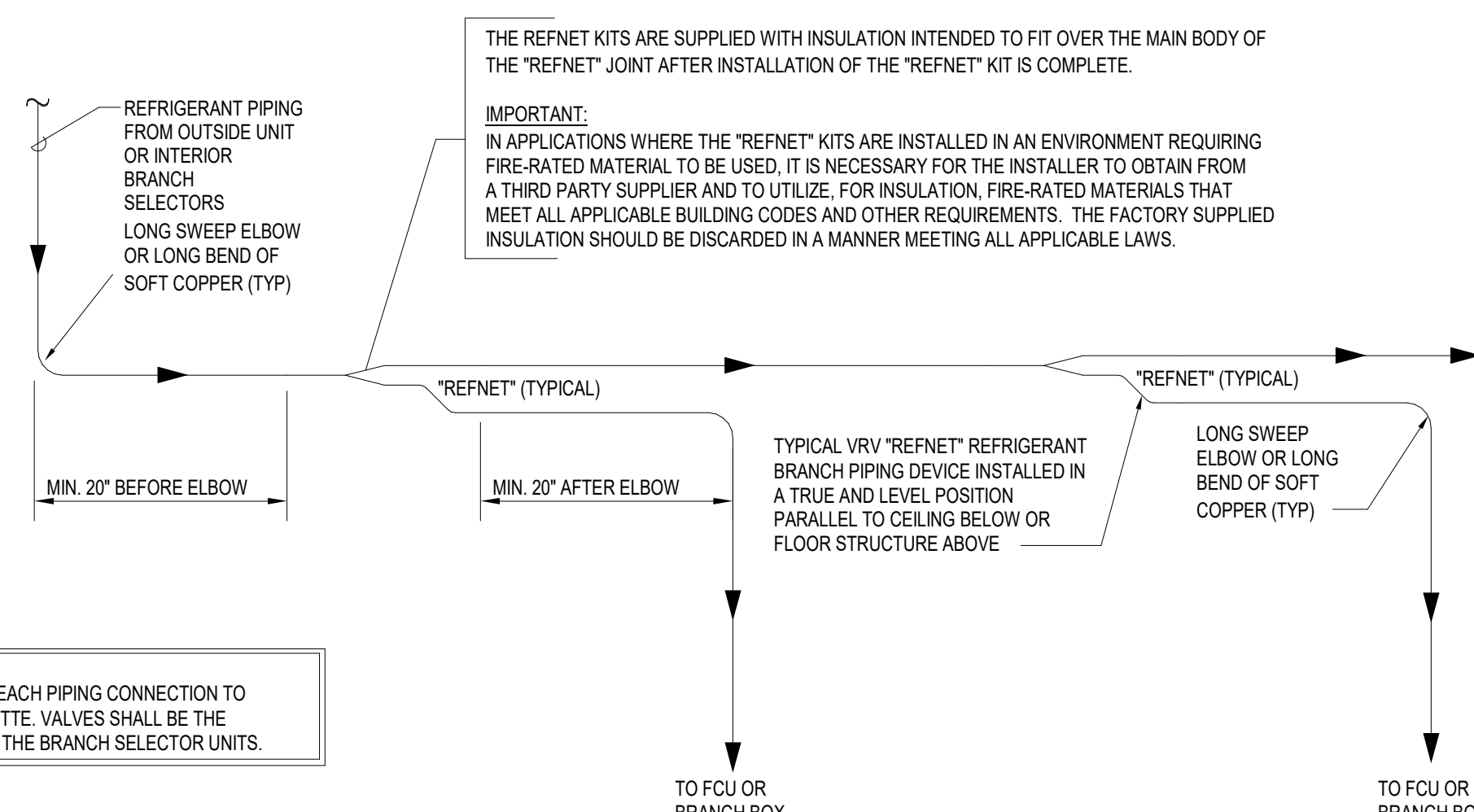
MANUFACTURER'S PIPING SYSTEM SPECIFICATIONS

1. ALL JOINTS SHALL BE BRAZED EXCEPT AT THE INDOOR UNITS WHICH SHALL BE FLARED. ANY DEVIATIONS TO THE DESIGNED PIPING LAYOUTS MUST BE SUBMITTED FOR MANUFACTURER'S WRITTEN APPROVAL BEFORE PROCEEDING. PIPING AFTER ANNEALING SHALL HAVE SUFFICIENT WALL THICKNESS FOR A CONTINUOUS OPERATING PRESSURE OF 600 PSI PER ASME B 31.5-2010.
2. COPPER TUBING WALL THICKNESSES MUST BE SUITABLE FOR THE SYSTEM MANUFACTURER'S HIGHER OPERATING PRESSURES.
3. ALL FLARED COPPER TUBING SHALL HAVE A SMOOTH, EVEN ROUND FLARE OF SUFFICIENT LENGTH TO FULLY ENGAGE THE MATING SURFACE OF THE FLARE NUT, WITHOUT PROTRUDING INTO THE THREADS. USE ONLY "PVE" REFRIGERATION OIL WHEN MAKING FLARES. OIL BACK SIDE OF FLARE WITH MANUFACTURER'S APPROVED OIL AND THREADS ON FITTINGS. USE A DEDICATED FLARE BLOCK AND TOOL. USE ONLY SYNTHETIC OIL ON THE FLARE TOOL.
4. ALL EXTERIOR PIPING SHALL BE A MINIMUM OF TYPE "L", "ACR" RATED STRAIGHT PIPE FOR R-410A OR AS SPECIFIED. ALL INTERIOR PIPING SHALL BE TYPE "L", "ACR" RATED ROLLED SOFT COPPER OR LINE SET FOR R-410A OR AS SPECIFIED.
5. DRY NITROGEN MUST BE USED DURING ALL BRAZING (PRESSURE REGULATED TO 3 PSI) TO PREVENT COPPER PLATE OR OXIDATION FORMATION.
6. FOR PRESSURE TESTING, TIGHTEN DOWN ALL STOP VALVES BEFORE ANY PRESSURE TESTING TO PREVENT NITROGEN FROM LEAKING BACK THROUGH CONDENSER AND CONTAMINATING REFRIGERANT. PRESSURE TESTING SHALL BE DONE IN THREE (3) STEPS:
A. LEAK TEST FOR 3 MINUTES AT 150 PSI.
B. LEAK CHECKED AFTER 5 MINUTES AT 325 PSI.
C. LEAK CHECK AFTER 24 HOURS AT 550 PSI.
CHECK FLARE NUTS USING BUBBLE SOLUTION AS RECOMMENDED BY SYSTEM MANUFACTURER. ALL PRESSURE TESTING MUST BE STRICTLY ADHERED TO, DOCUMENTED AND SUBMITTED FOR APPROVAL.
7. ALL LEAK TESTING AND EVACUATION SHALL BE PROVIDED IN ACCORDANCE WITH THE US EPA "GREEN CHILL BEST PRACTICES GUIDELINE ENSURING A LEAK-TIGHT INSTALLATION OF COMMERCIAL REFRIGERATION EQUIPMENT"
8. EVACUATION PROCEDURE SHALL BE PERFORMED AS FOLLOWS:
A. EVACUATE THE SYSTEM TO 4000 MICRONS. BREAK VACUUM WITH DRY NITROGEN TO A PRESSURE OF 2-3 PSI AND HOLD FOR 15 MINUTES.
B. EVACUATE THE SYSTEM TO 1500 MICRONS AND MAINTAIN FOR 20 MINUTES. BREAK VACUUM WITH DRY NITROGEN TO A PRESSURE OF 2-3 PSI AND HOLD FOR 15 MINUTES.
C. EVACUATE SYSTEM TO BELOW 500 MICRONS AND HOLD FOR 60 MINUTES.
D. EVACUATE SYSTEM TO BELOW 300 MICRONS AND HOLD FOR 24 HOURS.
VACUUM PUMP CHECK VALVE SHALL BE USED TO PREVENT MINERAL OIL FROM BEING DRAWN INTO THE SYSTEM.
THESE PROCEDURES MUST BE STRICTLY ADHERED TO, DOCUMENTED AND SUBMITTED FOR APPROVAL.
9. REFRIGERANT CHARGING-WEIGH IN ADDITIONAL REFRIGERANT WITH DIGITAL SCALES. CALCULATE CHARGE BASED ON TOTAL LINE LENGTH PLUS LB./FT. OF DIAMETER. CHECK WITH EACH UNIT MODEL FOR CORRECT MULTIPLIER. AFTER THE AMOUNT OF REFRIGERANT TO BE ADDED IS DETERMINED, WRITE IT DOWN ON THE LABEL ON THE BACK SIDE OF THE FRONT COVER. AFTER THE VACUUM/DRYING IS COMPLETE, CHARGE THE ADDITIONAL REFRIGERANT IN ITS LIQUID STATE THROUGH THE LIQUID STOP VALVE SERVICE PORT.
CONFIRM THE USE OF MANUFACTURER'S RECOMMENDED INSTALLATION TOOLS USED EXCLUSIVELY ON R-410A INSTALLATIONS TO WITHSTAND THE PRESSURE AND TO PREVENT FOREIGN MATERIAL FROM MIXING INTO THE SYSTEM.
10. ALL EXTERIOR INSULATED REFRIGERATION PIPING AND "REFNET'S" SHALL BE PROVIDED WITH AN ALUMINUM JACKET EQUIVALENT TO "PABCO-CHILDERS METALS" ALUMINUM ROLL JACKETING, 0.016" THICK, COMPLYING WITH 3105/3003 STANDARD ALLOYS, STUCCO EMBOSSED FINISH WITH POLYSURLYN MOISTURE RETARDER, PROVIDE 0.5" ALUMINUM BAND CLAMP EVERY 10 FEET.
11. INSULATION TECHNIQUES-ALL PIPE WORK MUST BE INSULATED ALONG ITS FULL RUN USING CODE COMPLIANT (25/50 RATED), ARMA-FLEX MODEL "UTSOLAFLEX", 3/4" THICK, HIGH TEMPERATURE & UV RESISTANT CLOSED CELL INSULATION. ALL PIPING INSULATION SHALL BE PERFORMED AFTER AIR TIGHT TEST AND VACUUM DRYING PER NOTE 8. INSULATE ALL LIQUID PIPING, H/L/P GAS PIPING, THE GAS PIPING, THE EQUALIZER PIPE (BETWEEN THE OUTDOOR UNITS FOR THE OUTDOOR MULTI SYSTEM) AND THESE PIPE CONNECTIONS. INSULATION SHALL WITHSTAND TEMPERATURES OF 248 DEGREES F. OR MORE FOR THE H/L/P GAS PIPING, THE EQUALIZER PIPE AND GAS PIPING. COVER FLARE NUTS ON THE FAN COIL UNITS AND CASSETTES USING THE INSULATION PROVIDED TO PREVENT CONDENSATION FROM OCCURRING AND CAUSING LEAKS.
12. UN-INSULATED JOINTS WILL CONDENSE MOISTURE AROUND THE FITTINGS. LINE COMPONENTS-DO NOT INSTALL DRIERS, OIL TRAPS, SIGHT GLASSES, OR ANY OTHER LINE COMPONENT IN THE PIPE WORK AS THIS WILL EFFECT THE PERFORMANCE AND MANUFACTURER'S WARRANTY.
13. VRF SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ASHRAE 15.
14. VRF SYSTEMS SHALL BE INSTALLED ONLY BY A MANUFACTURER CERTIFIED AND TRAINED CONTRACTOR AND SHALL HAVE DOCUMENTATION OF VRF INSTALLATION & COMMISSIONING TRAINING. FIELD SUPERINTENDENT SHALL HAVE VRF TRAINING AND CERTIFICATION. CERTIFICATION TRAINING AND COMMISSIONING DOCUMENTATION TO BE FURNISHED BY CONTRACTOR PRIOR TO NOTICE TO PROCEED.
15. IN APPLICATIONS WHERE THE "REFNET" KITS ARE INSTALLED IN AN ENVIRONMENT REQUIRING FIRE-RATED MATERIAL TO BE USED, IT IS NECESSARY FOR THE INSTALLER TO OBTAIN FROM A THIRD PARTY SUPPLIER AND TO UTILIZE, FOR INSULATION, FIRE-RATED MATERIALS THAT MEET ALL APPLICABLE BUILDING CODES AND OTHER REQUIREMENTS. THE FACTORY SUPPLIED INSULATION SHOULD BE DISCARDED IN A MANNER MEETING ALL APPLICABLE LAWS.



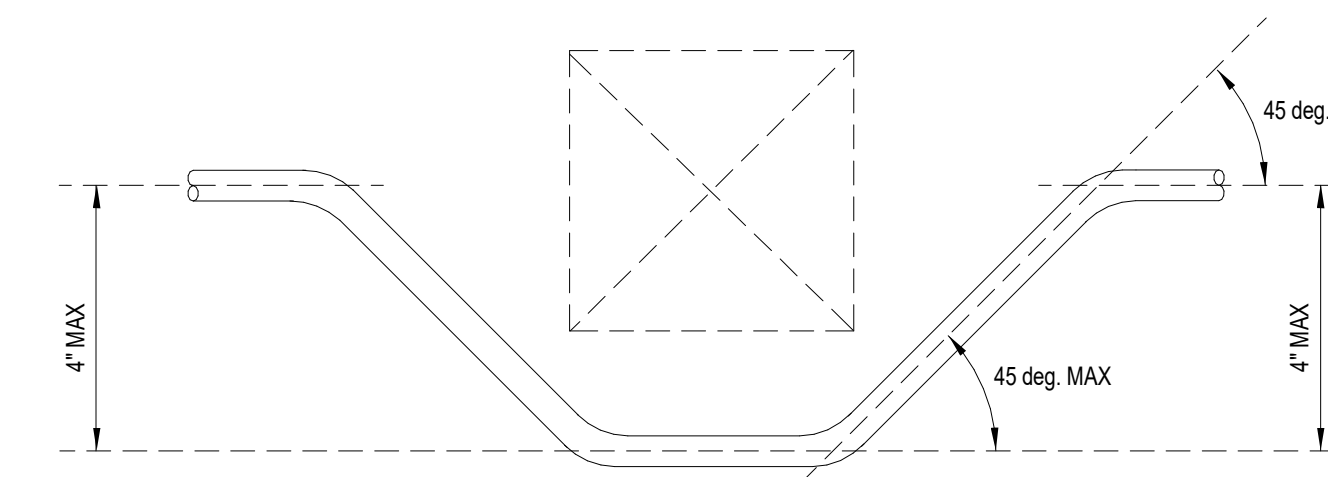
TYPICAL BRANCH SELECTOR UNIT PIPING

(ALL MECHANICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH ASHRAE 90.1)



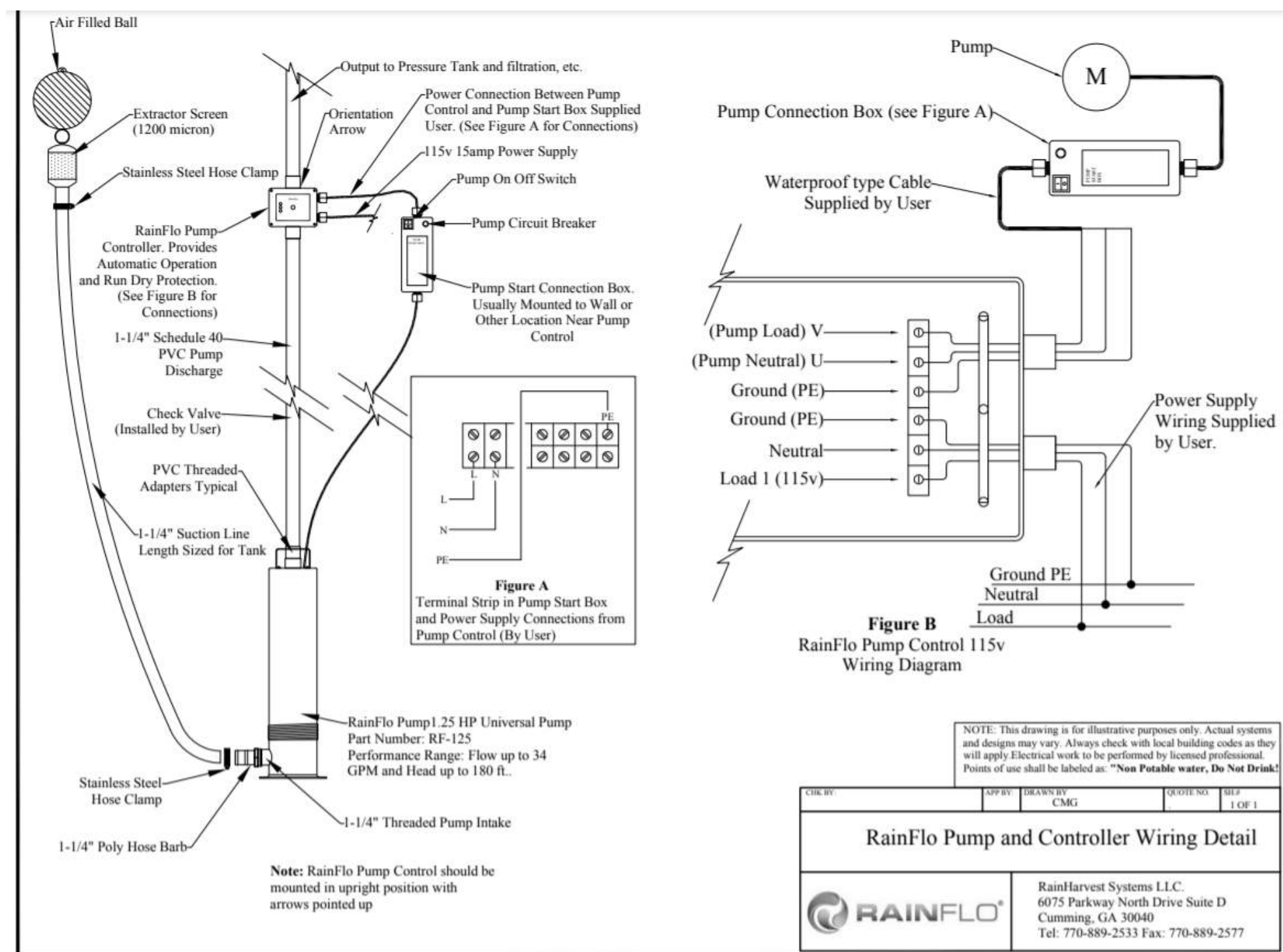
"REFNET" PIPING DIAGRAM CLEARANCE REQUIREMENTS

(REFER TO MANUFACTURER'S INSTRUCTIONS)



NOTE: IN CASES WHERE PIPING/TUBING NEEDS TO DROP BELOW OBJECTS, (BEAMS, DUCTS, CONDUITS, PIPES ETC.) PIPING SHALL HAVE LONG RADIUS TURNS AS INDICATED ABOVE (NO MORE THAN 45 DEGREES PER FITTING) TO PREVENT TRAPPING OF REFRIGERANT.

TYPICAL ELEVATION-PIPING OFFSET BELOW OBJECT



RAIN WATER PUMP -FILTER -PUMP CONTROLER

PUMP

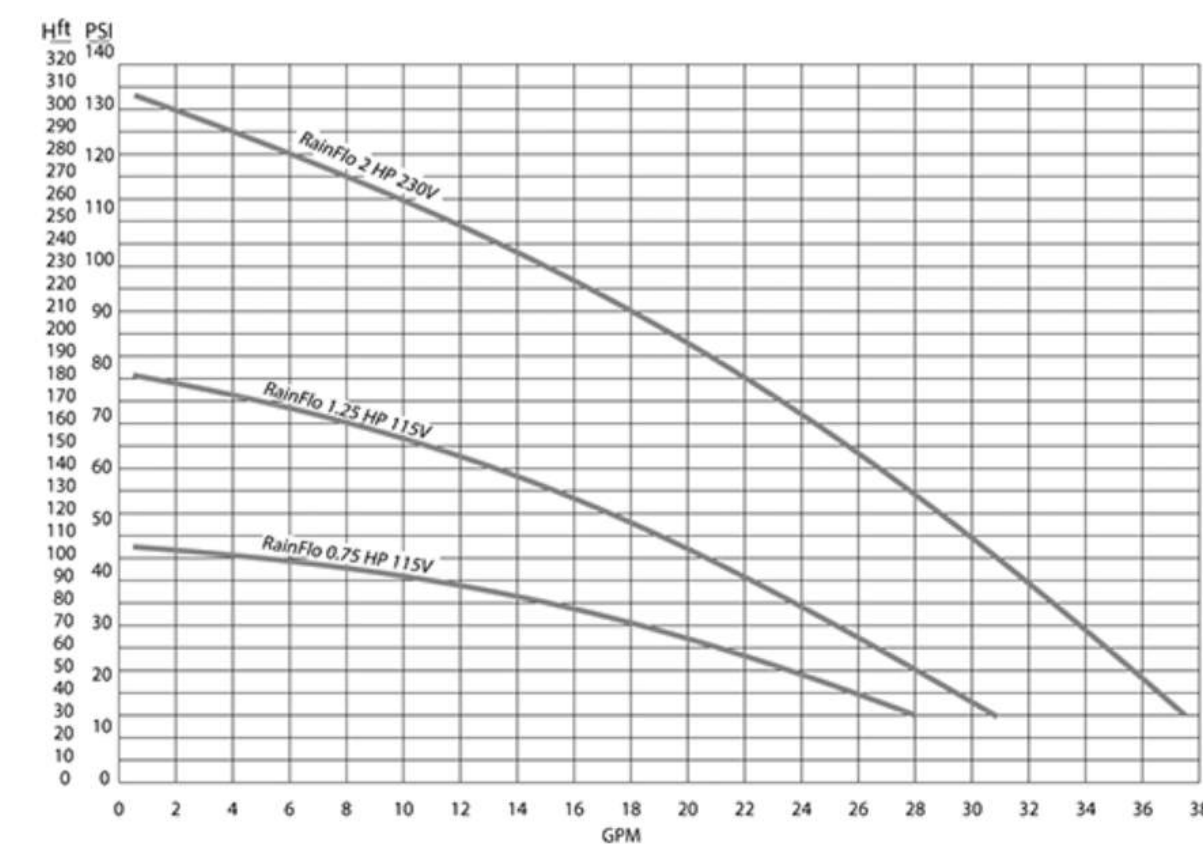
RAINFLO RF125 115V SERIES PUMP. THE RF125 115V IS A HEAVY-DUTY, HIGH PERFORMANCE 115V/60HZ, 1.25 HORSEPOWER 3-STAGE SUBMERSIBLE PUMP WITH 1.25" THREADED INLET TO PROVIDE A FLOATING EXTRACTOR. THE PUMP IS INTERNALLY COOLED BY THE WATER FLOWING THROUGH THE INLET SO THE PUMP CAN BE INSTALLED EITHER SUBMERSED IN A TANK OR EXTERNALLY ON THE GROUND OR OTHER MOUNTING PLATFORM.

CONSTRUCTION CONSISTS OF A 304 STAINLESS STEEL HOUSING, DUAL ITALIAN MECHANICAL SEALS, AMERICAN THERMAL PROTECTION, STAINLESS STEEL DIFFUSER AND IMPELLERS, EXTERNAL STARTING CAPACITOR FOR SERVICEABILITY AND LONG LIFE, 45 FOOT POWER CORD, PUMP START BOX WITH MASTER ON/OFF SWITCH AND CIRCUIT BREAKER WHICH ALSO SERVES AS A WIRE CONNECTION BOX.

OIL CHAMBER SHALL BE FILLED WITH NON-TOXIC COOLING OIL. BALL BEARINGS SHALL BE SELF-LUBRICATING AND INTERNAL CAST IRON COMPONENTS ARE COATED WITH POLYBUTADIENE VARNISH BY ELECTROPHORESIS TO PREVENT CORROSION WHICH IS SOMETIMES ASSOCIATED WITH THE TYPICAL LOWER PH OF RAINWATER.

INSTALLATION MAY VERTICAL. AVAILABLE AT THE INTAKE TO PREVENT A RUN-DRY CONDITION.

Pump Performance Curve:



RainFlo 25 GPM Complete UV Disinfection System

PUMP CONTROLLER
AQUAVAR SOLO 1AS16 VARIABLE SPEED PUMP CONTROLLER FOR OPERATING 2 WIRE AND 3 WIRE SINGLE PHASE 230V, 1-1/2 HP SUBMERSIBLE PUMPS

CONTROLLER TEMPERATURE RANGE:
• MINIMUM AMBIENT TEMPERATURE: 14°F • MAXIMUM AMBIENT TEMPERATURE: 122°F
INPUT VOLTAGE: SINGLE-PHASE, 230 VOLT, TWO (2) WIRE GROUNDED SYSTEM.
OUTPUT VOLTAGE: 10, VARIABLE VOLTAGE, VARIABLE FREQUENCY, SINGLE PHASE POWER TO THE 2-WIRE OR 3-WIRE MOTOR
SPEED/FREQUENCY: 30-60 ONLY
PACKAGED DIMENSIONS:
• HEIGHT: 21"
• WIDTH: 13"
• DEPTH: 8"

TANK SENSOR LEVEL MONITOR
BASIS OF DESIGN D110 SYSTEM REMOTELY MONITOR ONE TANK OR CISTERN UP TO 1,000 FEET AWAY.

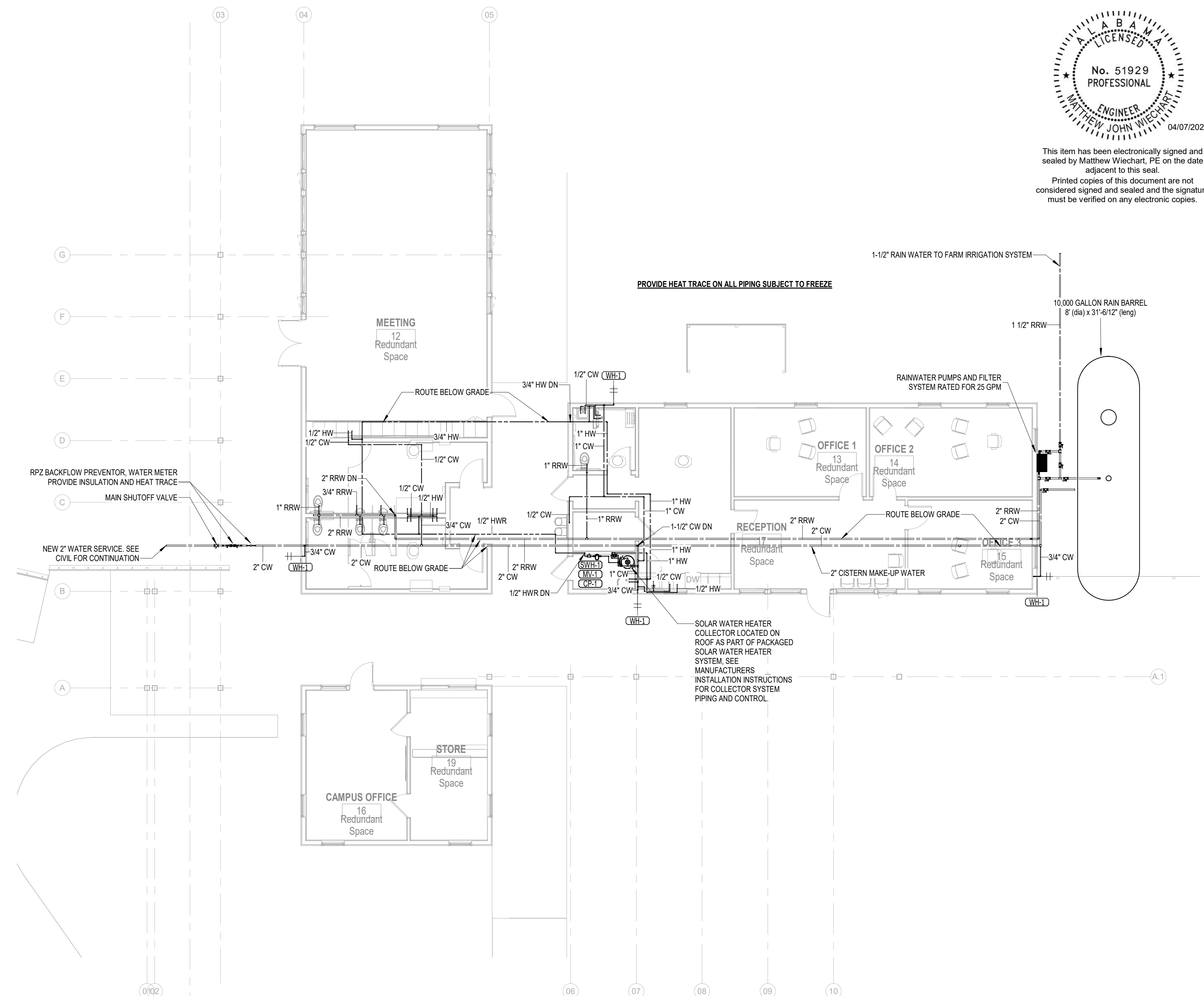
FULLY WIRELESS - NO CABLES
BLUE BACKLIT LCD DISPLAY
HIGH AND LOW LEVEL ALARMS
SET TANK/CISTERN DEPTH VIA DISPLAY UNIT
DISPLAYS INSIDE/OUTSIDE TEMPERATURE
DISPLAYS CURRENT TIME

The RainFlo complete UV disinfection systems feature superior performance, utilizing sediment filtration and UV disinfection to clean and disinfect rainwater for indoor potable* plumbing and/or non-potable irrigation applications.

FROM INPUT TO OUTPUT, THE FILTER CARTRIDGES SHALL HAVE A 20 MICRON PLEATED SEDIMENT FILTER, A 5 MICRON PLEATED SEDIMENT FILTER, AND A 1 MICRON ACTIVATED CARBON BLOCK FILTER.

RAINFLO ULTRAVIOLET DISINFECTION SYSTEMS DISINFECT WATER SYSTEM SHALL HAVE UV TECHNOLOGY. THE SYSTEM HAS AN ELECTRONIC CONTROLLER WHICH COMES EQUIPPED WITH AN LED SCREEN FOR VISUAL MANAGEMENT OF THE SYSTEM'S PERFORMANCE AND EASE OF TROUBLESHOOTING.

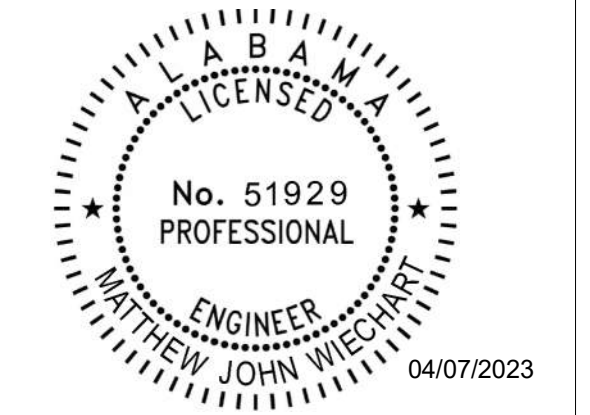
RAIN WATER FILTER



LEVEL 1 - WELCOME HUB - PLUMBING PRESSURE

1/8" = 1'-0"

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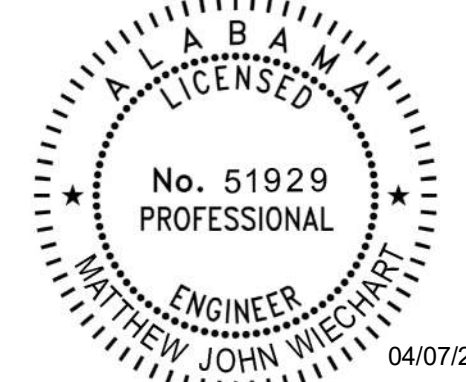
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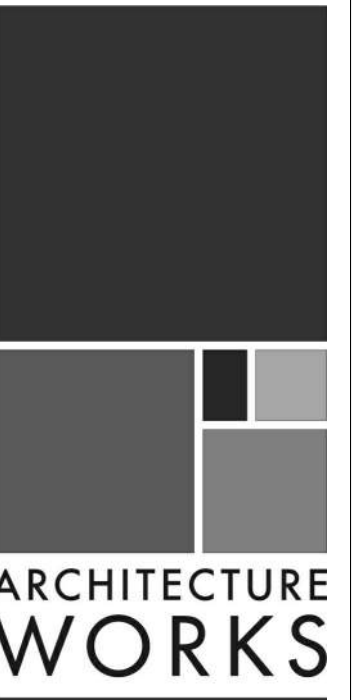
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DATE	
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JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	WELCOME HUB PRESSURE FLOOR PLAN
SHEET	PW101



04/07/2023

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No.	Date	Description

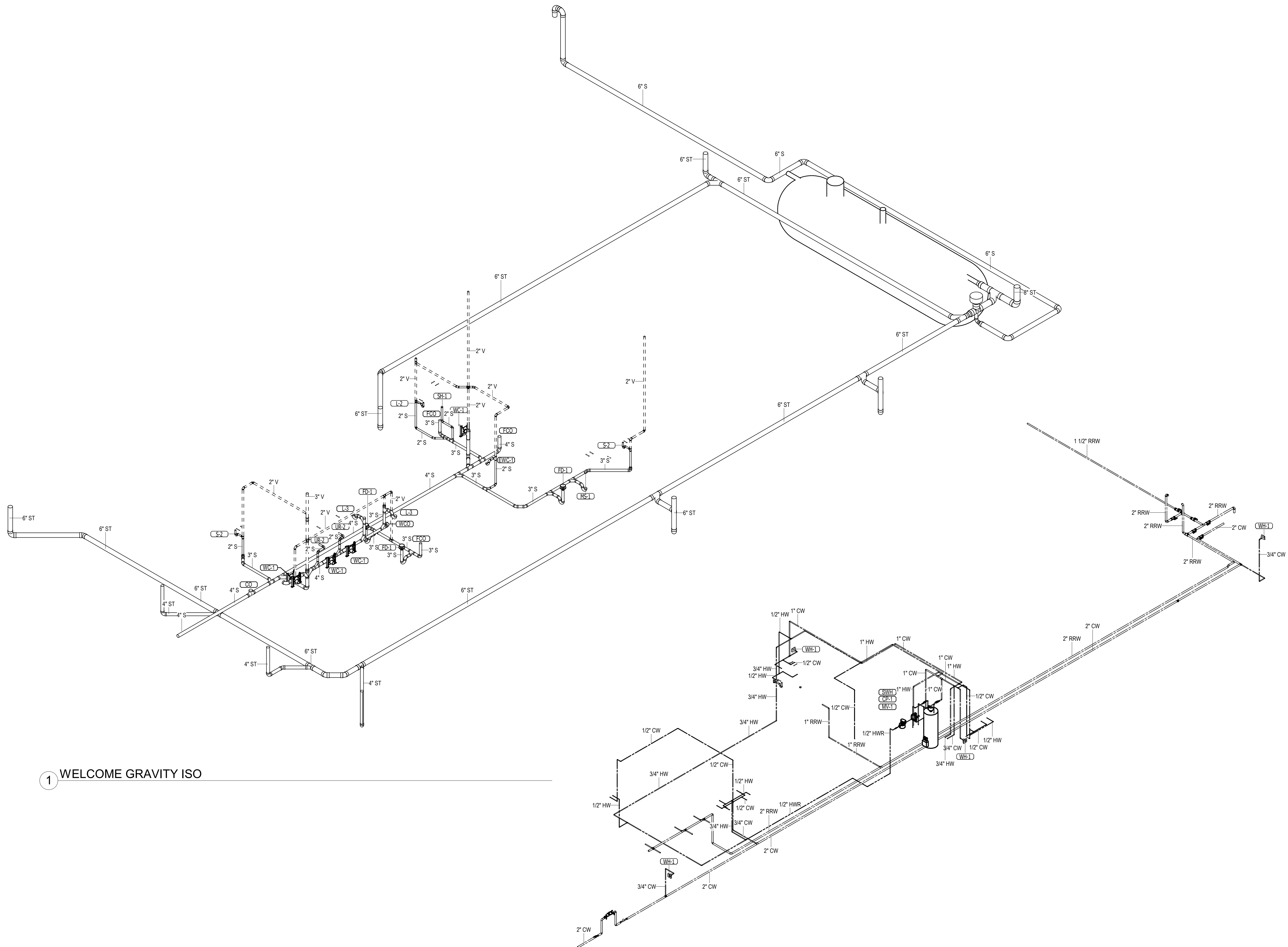
JOB
19-028.000

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

SHEET
**PLUMBING
ISOMETRICS**

SHEET
PW700



1 WELCOME GRAVITY ISO

2 WELCOME PRESSURE ISO

ELECTRICAL GENERAL NOTES

GENERAL

1. THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY. ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS"...

2. PROVIDE HACR RATED CIRCUIT BREAKER FOR ALL HVAC EQUIPMENT.
3. PROVIDE AFCI PROTECTION TO COMPLY WITH NEC IN ALL GUEST ROOMS AND GUEST SUITES WITH PROVISIONS FOR COOKING...
4. ALL PANELBOARDS OR DISCONNECT SWITCHES LOCATED IN KITCHEN AREAS SHALL BE STAINLESS STEEL...

5. PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS ON EACH SWITCHBOARD, SWITCHGEAR, DISTRIBUTION PANEL, PANELBOARD, MOTOR CONTROL CENTER, SAFETY SWITCH, ENCLOSED CIRCUIT BREAKER, CABINET, STEP-DOWN TRANSFORMER, TRANSFER SWITCH, ETC...
6. PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS FOR EACH DISTRIBUTION BREAKER OR BRANCH CIRCUIT BREAKER IN SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER DISTRIBUTION EQUIPMENT...
7. PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BUILDING STATING THAT THE MAIN SERVICE DISCONNECTING MEANS IS LOCATED INSIDE.

8. PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS FOR EACH DISTRIBUTION BREAKER OR BRANCH CIRCUIT BREAKER IN SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER DISTRIBUTION EQUIPMENT. NAME TAG SHALL INCLUDE LOAD DESCRIPTION AND ROOM NUMBER FOR EACH LOAD SERVICE...
9. ARC FLASH DANGEROUS WARNING LABELS SHALL BE APPLIED TO SWITCHBOARD, PANELBOARDS, AND EQUIPMENT CONTROLLERS PER NEC.

10. PROVIDE LABELS ON THE INSIDE OF EACH DEVICE COVERPLATE, IDENTIFYING THE PANEL(S) CIRCUIT NUMBER(S) DEVICE IS CONNECTED TO.
11. PROVIDE NEATLY HANDWRITTEN IDENTIFICATION ON THE EXTERIOR COVER OF ALL JUNCTION BOXES, PULLBOXES AND WIREWAYS, IDENTIFYING THE PANEL(S) CIRCUIT NUMBER(S) CONTAINED WITHIN.

11. PANEL SCHEDULES AND FLOOR PLANS MAY INDICATE DEDICATED HOMERUNS FOR EACH BRANCH CIRCUIT. BRANCH CIRCUITS MAY BE GROUPED IN A COMMON HOMERUN WHERE THE HOMERUN DOES NOT EXCEED 3 PHASE CONDUCTORS, 3 NEUTRAL CONDUCTORS, AND 1 EQUIPMENT GROUND...
12. CONTRACTOR IS TO SUBMIT FOR APPROVAL TO THE ENGINEER OF RECORD FINAL COORDINATED SETTINGS REQUIRED FOR MAIN CIRCUIT BREAKER AND ALL DOWNSTREAM ADJUSTABLE OVERCURRENT PROTECTIVE DEVICES, BASED ON SELECTED EQUIPMENT MANUFACTURER.

13. PROVIDE SEAL OFF FITTINGS, APPROVED FOR SUCH USE, WHERE RACEWAYS PENETRATE BETWEEN A DRY, CONDITIONED ENVIRONMENT AND THE EXTERIOR OR WET ENVIRONMENTS SUCH AS WALK-IN COOLERS OR FREEZERS, KITCHEN WASH-DOWN AREAS, ETC.
14. PROVIDE POLYETHYLENE JET-LINE #222 (W/NO PULL STRING) IN EACH EMPTY CONDUIT WITH ENGRAVED METAL TAG INDICATING CONDUIT DESIGNATION.

15. MINIMUM RACEWAY SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.
16. SET SCREW FITTINGS SHALL BE USED FOR EMT CONDUIT.
17. ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS. IF NO SIZE IS SHOWN, THEN WIRE SHALL BE #12 AWG, EXCEPT THAT BRANCH HOMERUNS OVER 100' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 120/208Volt CIRCUITS, AND HOMERUNS OVER 200' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 277/480Volt CIRCUITS.

18. ALL WIRE SIZES ARE BASED ON AMPACITIES FOR 75 DEG. F TEMPERATURE RATINGS LISTED IN NEC.
19. ALL CONDUCTORS IN CABINETS SHALL BE CAREFULLY FORMED AND HARNESSSED SO THAT EACH CONDUCTOR DROPS OFF DIRECTLY POSITIVE TO TERMINAL.

20. ALL CONDUCTORS SHALL BE COPPER, THINWALLED, AND SOLD FOR #10 AWG AND SMALLER, AND STRANDED FOR #8 AWG AND LARGER.
21. THE USE OF ALUMINUM CONDUCTORS, RACEWAYS, BOXES, BUSSING, WINDINGS, ETC. ARE PROHIBITED. ALL MATERIALS SHALL BE COPPER, UNLESS SPECIFICALLY NOTED OTHERWISE OR UNLESS A/E OR OWNER GRANTS WRITTEN PERMISSION.

22. FIRE PROTECTION PIPING SHALL NOT BE USED FOR GROUNDING.
23. ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR. METAL RACEWAYS SHALL NOT BE USED AS EQUIPMENT GROUND.
24. WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.

25. PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF / MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.

26. HEAT DETECTORS SHALL BE ADDRESSABLE, FIXED TYPE @ 135 DEG F, UNLESS OTHERWISE NOTED.
27. WHERE THERE IS A GENERATOR ON THE PROJECT, CIRCUIT THE REMOTE GENERATOR ANNUNCIATOR PANEL ALARM OUTPUTS TO FIRE ALARM CONTROL PANEL PER AUTHORITY HAVING JURISDICTION REQUIREMENTS.

28. PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM PER NFPA AND ALL STATE AND LOCAL CODE REQUIREMENTS. COMPLY WITH NFPA 72 AND ADA REQUIREMENTS. STATE CERTIFIED AND LICENSED FIRE ALARM CONTRACTOR SHALL PREPARE AND SUBMIT SIGNED AND SEALED DRAWINGS FOR THE LOCAL AUTHORITY HAVING JURISDICTION/ FIRE MARSHAL.

29. FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF AN HVAC DIFFUSER (SUPPLY OR RETURN), IN DIRECT AIR FLOW PATH, OR WITHIN 36" OF A SPRINKLER HEAD UNLESS NOTED OTHERWISE. SMOKE DETECTORS FOR DOOR RELEASE SHALL BE LOCATED ON THE CENTRLINE OF THE DOOR AND A MAXIMUM OF FIVE FEET FROM THE DOOR. THE MINIMUM DISTANCE FROM THE DOOR SHALL BE THE DEPTH OF THE WALL SECTION ABOVE THE DOOR, BUT NOT LESS THAN 12".

30. PROVIDE LABELS FOR REMOTE ALARM INDICATORS FOR DUCT MOUNTED SMOKE DETECTORS (I.E. AHU-1 SUPPLY, AHU-2 RETURN, FIRE/SMOKE DAMPER, ETC.). DUCT DETECTORS SHOULD BE LOCATED WITHIN 8 TO EQUIVALENT DIAMETERS OF STRAIGHT, UNINTERRUPTED DUCTWORK. DUCT DETECTORS FOR FIRE/SMOKE DAMPERS SHOULD BE LOCATED BETWEEN THE LAST INLET OR OUTLET UPSTREAM OF THE DAMPER AND THE FIRE INLET OR OUTLET DOWNSTREAM OF THE DAMPER, AND WITHIN FIVE FEET OF THE FIRE/SMOKE WALL.

31. EQUIPMENT SHUT DOWN FIRE ALARM RELAYS SHALL BE LOCATED WITHIN THREE (3) FEET OF THE EQUIPMENT CONTROLS AND THE WIRING TO THE EQUIPMENT SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
32. FOR EACH FIRE/SMOKE DAMPER, INTERLOCK WITH FIRE ALARM CONTROL PANEL TO CLOSE FIRE/SMOKE DAMPER AND TO CONTROL THE ASSOCIATED MECHANICAL UNIT PER THE MECHANICAL SEQUENCE OF OPERATIONS, UNLESS NOTED OTHERWISE.
33. ALL NOTIFICATION APPLIANCES SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED.

34. FIRE ALARM CIRCUITS SHALL BE CLASS "B", STYLE "C" FOR INITIATION DEVICE CIRCUITS (IOC) AND CLASS "B" STYLE "Y" FOR NOTIFICATION DEVICE CIRCUITS (NAC), UNLESS OTHERWISE NOTED. CLASS "A" SHALL BE PROVIDED FOR WIRING FROM BULB TO BUILDING (CAMPUSS).

35. PROVIDE 120V 20A 5-20R RECEPTACLE AT ALL FAN COIL UNITS FOR CONDENSATE PUMP POWER AND HOT WATER RECIRCULATING PUMPS, WHETHER SHOWN ON PLANS OR NOT. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT.
36. PROVIDE 120V CONNECTION TO ALL MOTORIZED DAMPERS INDICATED ON MECHANICAL PLANS, WHETHER SHOWN ON DIVISION 26 DRAWINGS OR NOT. FIRE/SMOKE DAMPER CIRCUITS ARE TO BE PROVIDED FROM EMERGENCY BRANCH PANEL (LEGALLY REQUIRED BRANCH IF AVAILABLE). MOTORIZED DAMPERS WITHIN THE SAME AREA CAN BE CIRCUITED TO THE SAME CIRCUIT (I.E., DEDICATED CIRCUIT IS NOT REQUIRED).

37. PROVIDE PHONE/DATA OUTLET WITH 1" RACEWAY, AND 120V RECEPTACLE ON DEDICATED CIRCUIT ADJACENT TO EACH AIR HANDLING UNIT FOR CONTROL POWER.
38. PROVIDE 120V DEDICATED CIRCUIT TO EACH AIR HANDLING UNIT WITH SEPARATE CONNECTIONS TO UNIT LIV, LIGHT, UNIT RECEPTACLE, AND BI-POLAR IONIZATION FILTER WHERE PROVIDED. COORDINATE WITH DIVISION 23 SHOP DRAWINGS.

39. ACCESS CONTROLLED DOOR POWER NOTE: ENSURE ALL 120V CONVENIENCE RECEPTACLE CIRCUITS UTILIZED FOR ACCESS CONTROL POWER SUPPLY ARE UNDER NORMAL OPERATION ALWAYS ENERGIZED AND NOT CONTROLLED THROUGH PLUS LOAD CONTROL / LIGHTING CONTROLS / EPC STATIONS. THIS IS APPLICABLE TO ALL ACCESS CONTROL NOTES THROUGHOUT THE ELECTRICAL SET.

40. ENSURE ALL SHUNT TRIP RELAYS ARE CONTINUOUS DUTY RATED OR CONTAIN A SAFETY MECHANISM THAT ENSURES RELAYS GET DE-ENERGIZED AFTER ACTUATING TO PREVENT OVERHEATING.

FIRE ALARM SYSTEM NOTES

1. ALL FIRE ALARM EQUIPMENT IS TO BE NEW, UL LISTED FOR FIRE SERVICE, AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED.
2. ALL WIRING AND CONDUIT IS TO CONFORM TO NEC ARTICLE 760. WIRING SHALL BE UL LISTED, MINIMUM 300V TYPE FPLP PLENUM RATED SOLID COPPER OR STANDARD COPPER WITH MAXIMUM 15 STRANDS.
3. LOW VOLTAGE CONDUCTORS: PROVIDE CONDUCTORS IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER.

WHERE THERE IS A DISCREPANCY BETWEEN ABOVE GENERAL NOTES AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL BE FOLLOWED

APPLICABLE CODES

ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE CODES, STANDARDS AND PRACTICES LISTED HEREIN:
A. LIFE SAFETY CODE, NFPA 101.
B. UNDERWRITERS LABORATORIES, INC. (UL) PUBLICATIONS.
C. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
D. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
E. NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION.



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GULF COAST CENTER FOR ECOTOURISM & SUSTAINABILITY
MAWFIELD SHED PACKAGE#E
GULF SHORES, ALABAMA

Table with columns for Title, Revision, Date, and Job number. Job number: 19-028.000

PROJECT STATUS: CONFIRMANCE SET
DATE: MARCH 24, 2023
SHEET: ELECTRICAL GENERAL NOTES

EW001



04/07/2023

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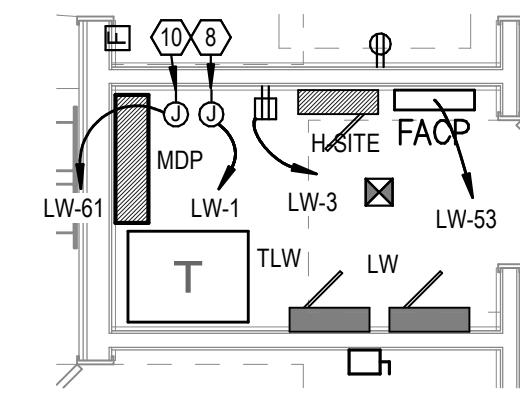
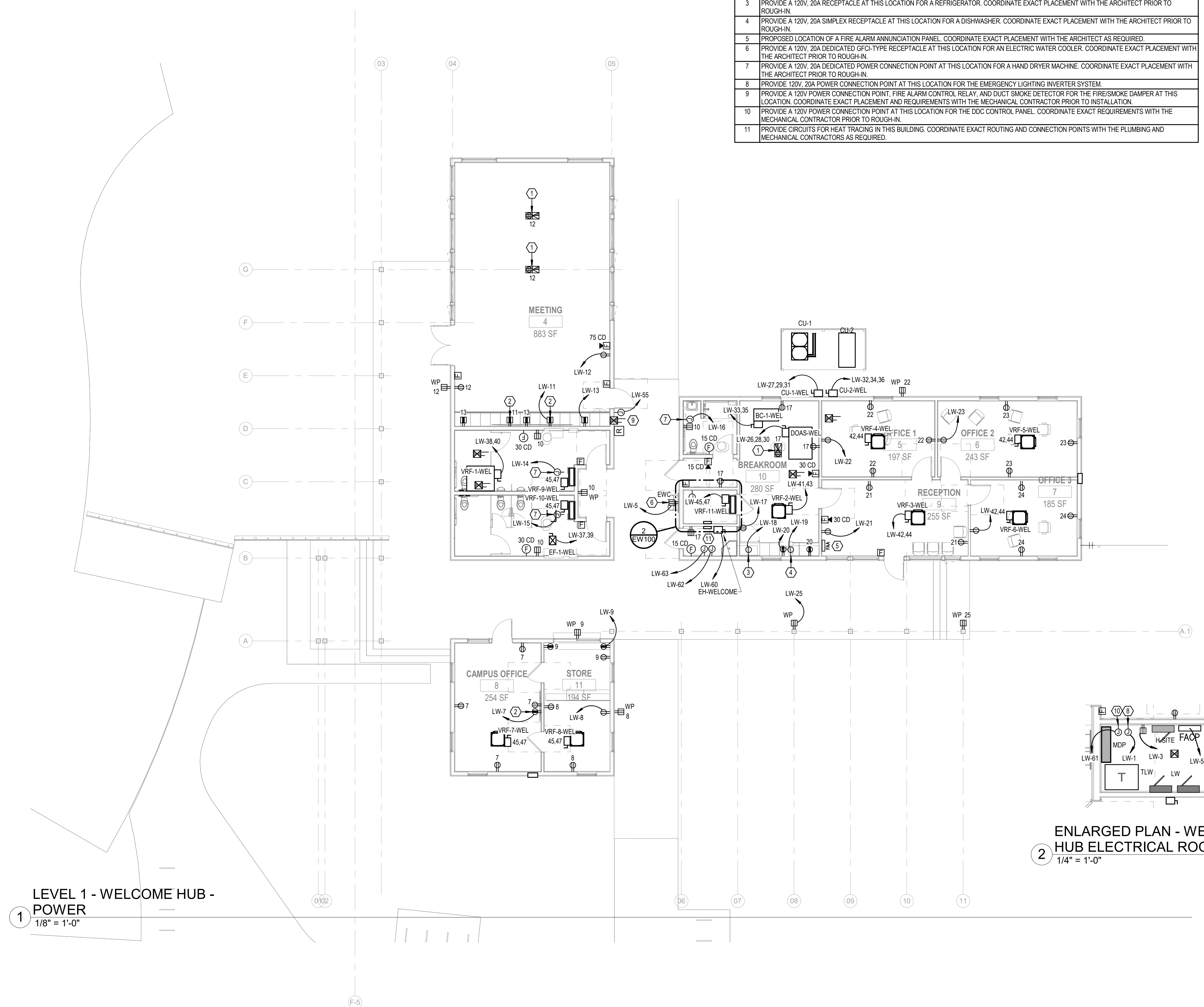
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ELECTRICAL KEY NOTES

#	KEYNOTE TEXT
1	PROVIDE A 120V, 20A RATED QUAD RECEPTACLE ALONG WITH SEPARATE DATA OUTLETS IN THE FLOORBOX AT THIS LOCATION. FLOORBOX SHALL BE FULLY ADJUSTABLE AND BE PROVIDED WITH A COMPLETELY FLUSH BRASS COVER THAT BLENDS WITH THE FLOOR. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2	PROVIDE A 120V, 20A RECEPTACLE AT THIS LOCATION FOR A WALL-MOUNTED FLATSCREEN TV. COORDINATE EXACT MOUNTING HEIGHT WITH THE ARCHITECT PRIOR TO ROUGH-IN.
3	PROVIDE A 120V, 20A RECEPTACLE AT THIS LOCATION FOR A REFRIGERATOR. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4	PROVIDE A 120V, 20A SIMPLEX RECEPTACLE AT THIS LOCATION FOR A DISHWASHER. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT PRIOR TO ROUGH-IN.
5	PROPOSED LOCATION OF A FIRE ALARM ANNUNCIATION PANEL. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT AS REQUIRED.
6	PROVIDE A 120V, 20A DEDICATED GFCI-TYPE RECEPTACLE AT THIS LOCATION FOR AN ELECTRIC WATER COOLER. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT PRIOR TO ROUGH-IN.
7	PROVIDE A 120V, 20A DEDICATED POWER CONNECTION POINT AT THIS LOCATION FOR A HAND DRYER MACHINE. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT PRIOR TO ROUGH-IN.
8	PROVIDE 120V, 20A POWER CONNECTION POINT AT THIS LOCATION FOR THE EMERGENCY LIGHTING INVERTER SYSTEM.
9	PROVIDE A 120V POWER CONNECTION POINT, FIRE ALARM CONTROL RELAY, AND DUCT SMOKE DETECTOR FOR THE FIRE/SMOKE DAMPER AT THIS LOCATION. COORDINATE EXACT PLACEMENT AND REQUIREMENTS WITH THE MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
10	PROVIDE A 120V POWER CONNECTION POINT AT THIS LOCATION FOR THE DDC CONTROL PANEL. COORDINATE EXACT REQUIREMENTS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
11	PROVIDE CIRCUITS FOR HEAT TRACING IN THIS BUILDING. COORDINATE EXACT ROUTING AND CONNECTION POINTS WITH THE PLUMBING AND MECHANICAL CONTRACTORS AS REQUIRED.



ENLARGED PLAN - WELCOME HUB ELECTRICAL ROOM
②
1/4" = 1'-0"

LEVEL 1 - WELCOME HUB - POWER
①
1/8" = 1'-0"

NO.	DATE	REVISION

JOB
19-028.000

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

SHEET
WELCOME HUB POWER FLOOR PLAN

SHEET
EW100



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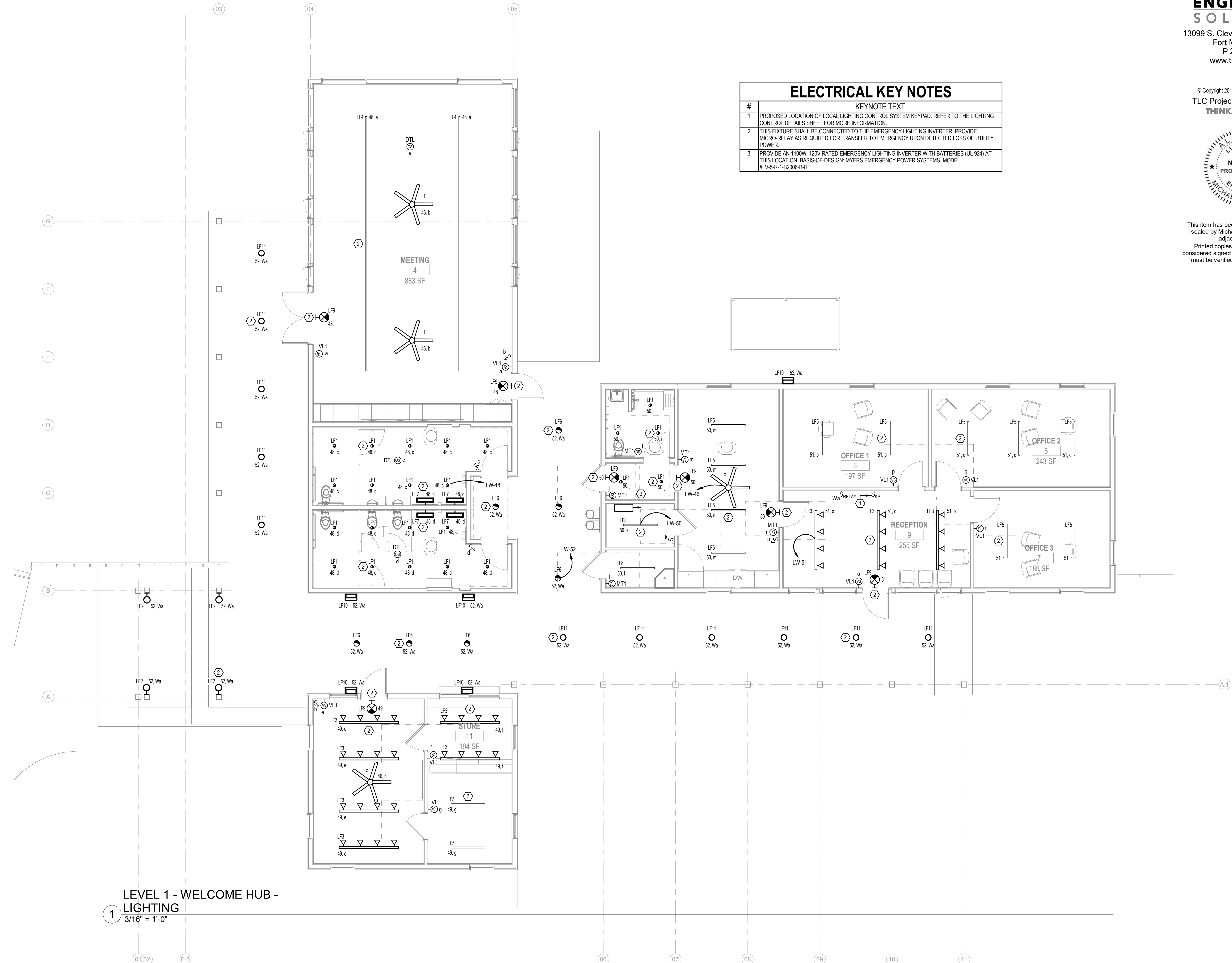
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GULF SHORES, ALABAMA

#	KEYNOTE TEXT
1	PROPOSED LOCATION OF LOCAL LIGHTING CONTROL SYSTEM KEYPAD. REFER TO THE LIGHTING CONTROL DETAILS SHEET FOR MORE INFORMATION.
2	THIS FIXTURE SHALL BE CONNECTED TO THE EMERGENCY LIGHTING INVERTER. PROVIDE MICRO-RELAY AS REQUIRED FOR TRANSFER TO EMERGENCY UPON DETECTED LOSS OF UTILITY POWER.
3	PROVIDE AN 1100W, 120V RATED EMERGENCY LIGHTING INVERTER WITH BATTERIES (UL 924) AT THIS LOCATION. BASIS-OF-DESIGN: MYERS EMERGENCY POWER SYSTEMS, MODEL #LV-5-R-1-B2006-B-RT.



LEVEL 1 - WELCOME HUB - LIGHTING
1
3/16" = 1'-0"

DATE	REVISION

JOB
19-028.000

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

SHEET
WELCOME HUB LIGHTING FLOOR PLAN

SHEET
EW200



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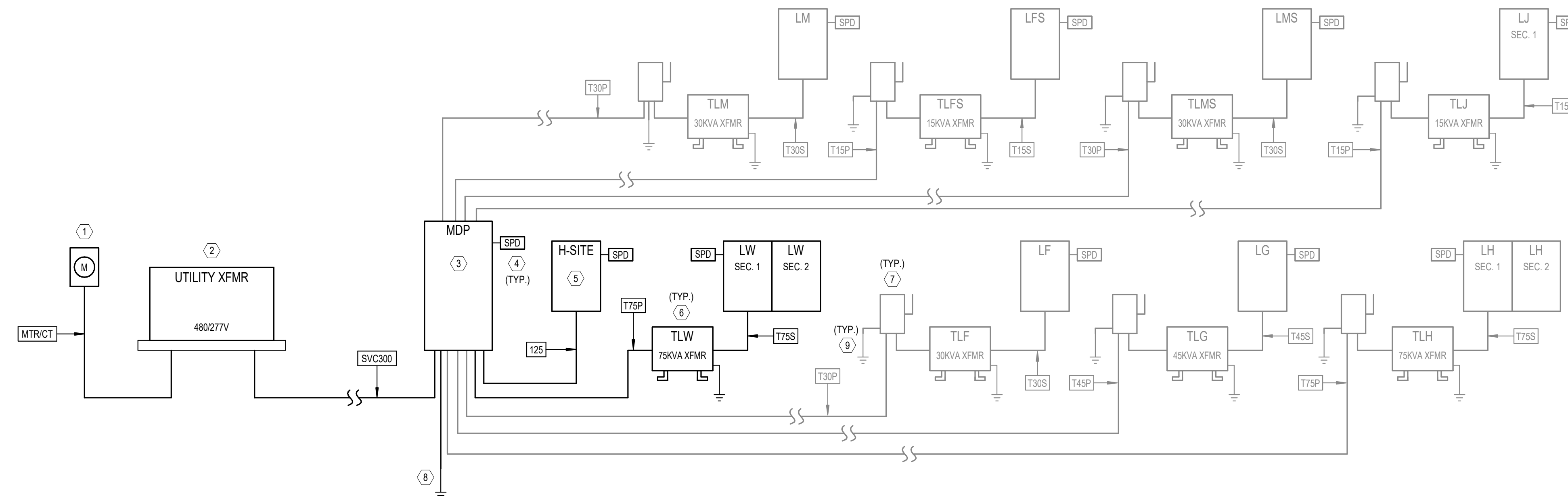
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ELECTRICAL RISER KEY NOTES	
#	KEYED NOTE TEXT
1	PROVIDE ALUMINUM CT METER ENCLOSURE PER UTILITY REQUIREMENTS.
2	480/277V, 3-PHASE, PAD-MOUNTED UTILITY TRANSFORMER. REFER TO ELECTRICAL SITE PLANS FOR PLACEMENT. INSTALL PER BALDWIN EMC REQUIREMENTS.
3	480/277V, 3-PHASE, 4-WIRE MAIN DISTRIBUTION PANEL. REFER TO PANEL SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION.
4	PROVIDE A SURGE PROTECTION DEVICE (SPD) AT EVERY PANEL LOCATION PER PLANS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
5	480/277V, 3-PHASE, 4-WIRE BRANCH PANELBOARD. REFER TO THE PANEL SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION.
6	480/277V TO 208/120V, DRY-TYPE, STEP-DOWN TRANSFORMER. REFER TO THE TRANSFORMER SCHEDULE THIS SHEET, AND THE SPECIFICATIONS FOR MORE INFORMATION.
7	PROVIDE A PRIMARY SIDE DISCONNECTING MEANS FOR THIS TRANSFORMER PER THE PLANS AND SPECIFICATIONS.
8	PROVIDE A MAIN SYSTEM GROUND PER NEC ARTICLE 250 AND THE SPECIFICATIONS.
9	PROVIDE A GROUNDING POINT PER NEC ARTICLE 250 WHERE THE ELECTRICAL SYSTEM ENTERS THE BUILDING.

TRANSFORMER SCHEDULE (COPPER WINDINGS)					
TRANSFORMER NAME	KVA RATING	PHASE	PRIMARY VOLTAGE (D=DELTA, Y=WYE)	SECONDARY VOLTAGE (D=DELTA, Y=WYE)	GROUNDING ELECTRODE CONDUCTOR
TLF	30	3	480D	120/208Y	#6
TLG	45	3	480D	120/208Y	#6
TLH	75	3	480D	120/208Y	#2
TLW	75	3	480D	120/208Y	#2
TLM	30	3	480D	120/208Y	#6
TLFS	15	3	480D	120/208Y	#6
TLMS	30	3	480D	120/208Y	#6
TLJ	15	3	480D	120/208Y	#6



**RISER DIAGRAM -
WELCOME HUB**

NO SCALE

NOTE: SCOPE OF WORK FOR THIS PARTICULAR BUILDING DRAWING SET ON THE RISER IS SHOWN IN BOLD. ALL OTHER PROJECT WORK NOT DIRECTLY ASSOCIATED WITH THIS BUILDING IS HALF-TONED.

ELECTRICAL LOAD SUMMARY									
PANEL NAME	SUPPLIED FROM	AIC RATING	DEMAND (VA)	DEMAND (A)	VOLTAGE	PHASE	NO. OF SPACES/POLES	MAINS TYPE	ENCLOSURE TYPE
H-SITE	MDP	42	825 VA	1 A	480/277V	3	42	MLO	TYPE 1
LF	TLF	10	11608 VA	32 A	208/120V	3	42	MCB	TYPE 1
LFS	TLFS	10	3708 VA	10 A	208/120V	3	42	MCB	TYPE 1
LG	TLG	10	24656 VA	68 A	208/120V	3	42	MCB	TYPE 1
LH	TLH	10	58979 VA	164 A	208/120V	3	84	MCB	TYPE 1
LJ	TLJ	10	2274 VA	6 A	208/120V	3	42	MCB	TYPE 1
LM	TLM	10	18687 VA	52 A	208/120V	3	42	MCB	TYPE 1
LMS	TLMS	10	32048 VA	89 A	208/120V	3	42	MCB	TYPE 1
LW	TLW	22	65891 VA	183 A	208/120V	3	84	MCB	TYPE 1
MDP		65	199467 VA	240 A	480/277V	3		MCB	TYPE 1

COPPER CONDUCTOR/FEEDER SCHEDULE						
SYMBOL	NUMBER OF SETS	PHASE CONDUCTORS (QUANTITY) SIZE - AWG	NEUTRAL CONDUCTORS (QUANTITY) SIZE - AWG	GROUNDING CONDUCTORS (QUANTITY) SIZE - AWG	CONDUIT SIZE (QUANTITY) SIZE	REMARKS
12S	1	(3) #1	(1) #1	(1) #6	(1) 1 1/2"	
MTR/CT	1	---	---	---	(1) 1-1/4"	GALVANIZED RIGID CONDUIT WITH WIRING AND MOUNTING PER UTILITY COMPANY REQUIREMENTS
SVC300	1	(3) #350 KCMIL	(1) #350 KCMIL	---	(1) 3"	
T15P	1	(3) #10	---	(1) #10	(1) 3/4"	15KVA TRANSFORMER PRIMARY
T15S	1	(3) #4	(1) #4	(1) #8	(1) 1 1/4"	15KVA TRANSFORMER SECONDARY
T30P	1	(3) #6	---	(1) #10	(1) 1"	30KVA TRANSFORMER PRIMARY
T30S	1	(3) #1	(1) #1	(1) #6	(1) 1 1/2"	30KVA TRANSFORMER SECONDARY
T45P	1	(3) #4	---	(1) #8	(1) 1"	45KVA TRANSFORMER PRIMARY
T45S	1	(3) #10	(1) #10	(1) #6	(1) 2"	45KVA TRANSFORMER SECONDARY
T75P	1	(3) #2	---	(1) #6	(1) 1 1/4"	75KVA TRANSFORMER PRIMARY
T75S	1	(3) #40	(1) #40	(1) #2	(1) 2 1/2"	75KVA TRANSFORMER SECONDARY

ELECTRICAL EQUIPMENT COORDINATION SCHEDULE - WELCOME HUB																
TAG	HP	LOAD	FLA (AMPS)	VOLTAGE	PHASE	CONDUIT/WIRE (AWG)	PANEL	CIRCUIT NUMBER	STARTER			DISCONNECT			COMMENTS	
									NEMA SIZE	ENCLOS. TYPE	FURN. BY (DIV.)	SWITCH SIZE	NO. OF POLES	ENCLOS. TYPE		FURN. BY (DIV.)
BC-1-WEL	---	395 VA	1.9A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	33,35	---	---	---	20A	2	NEMA 1	26	
CU-1-WEL	---	16212 VA	45A	208 V	3	1" CONDUIT WITH 3#6 AND 1#6 GROUND	LW	27,29,31	---	---	---	60A	3	NEMA 3R	26	
CU-2-WEL	---	8286 VA	23A	208 V	3	1" CONDUIT WITH 3#6 AND 1#10 GROUND	LW	32,34,36	---	---	---	60A	3	NEMA 3R	26	
DOAS-WEL	1.5	1080 VA	3.0A	208 V	3	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	26,28,30	---	---	---	30A	3	NEMA 1	26	
EF-1-WEL	1/4	665 VA	3.2A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	37,39	00	NEMA 1	26	20A	2	NEMA 1	26	
EH-WELCOME	---	1000 VA	8.3A	120 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	60	---	---	---	30A	2	NEMA 1	26	
VRF-1-WEL	---	630 VA	7.7A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	38,40	---	---	---	20A	2	NEMA 1	26	
VRF-2-WEL	---	40 VA	0.5A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	41,43	---	---	---	20A	2	NEMA 1	26	
VRF-3-WEL	---	20 VA	0.3A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	42,44	---	---	---	20A	2	NEMA 1	26	
VRF-4-WEL	---	20 VA	0.3A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	42,44	---	---	---	20A	2	NEMA 1	26	
VRF-5-WEL	---	20 VA	0.3A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	42,44	---	---	---	20A	2	NEMA 1	26	
VRF-6-WEL	---	20 VA	0.3A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	42,44	---	---	---	20A	2	NEMA 1	26	
VRF-7-WEL	---	20 VA	0.3A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	45,47	---	---	---	20A	2	NEMA 1	26	
VRF-8-WEL	---	20 VA	0.3A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	45,47	---	---	---	20A	2	NEMA 1	26	
VRF-9-WEL	---	20 VA	0.3A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	45,47	---	---	---	20A	2	NEMA 1	26	
VRF-10-WEL	---	20 VA	0.3A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	45,47	---	---	---	20A	2	NEMA 1	26	
VRF-11-WEL	---	20 VA	0.3A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LW	45,47	---	---	---	20A	2	NEMA 1	26	

NO.		
DATE		
JOB	19-028.000	
PROJECT STATUS	CONFORMANCE SET	
DATE	MARCH 24, 2023	
SHEET	ELECTRICAL RISER DIAGRAM & SCHEDULES	
SHEET	EW300	



04/07/2023

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FIRE ALARM SYSTEM SEQUENCE OF OPERATION

No Scale

TYPE OF SYSTEM:

- FULLY ADDRESSABLE FIRE ALARM SYSTEM AND STANDBY BATTERY MONITORED BY CENTRAL STATION
- 24 HOURS OF STANDBY, 5 MINUTES OF ALARM USED FOR BATTERY CALCULATIONS
- VOICE EVACUATION WITH PRE-RECORDED DIGITAL MESSAGE AND MANUAL ANNOUNCEMENT VIA MICROPHONE

TYPE OF CIRCUITS:

- SIGNALING LINE CIRCUIT (SLC) = CLASS B, SURVIVABILITY LEVEL 0
- NOTIFICATION APPLIANCE CIRCUIT (NAC) = CLASS B, SURVIVABILITY LEVEL 0

WIRING METHOD:

- "FPLR" CABLE IN CONDUIT.
- WET LOCATION LISTED CABLE FOR UNDERGROUND, SLAB, AND UNCONDITIONED SPACE CONDUIT.

GENERAL ALARM SEQUENCE:

- ACTIVATION OF AN ALARM INITIATING DEVICE WILL CAUSE THE NOTIFICATION DEVICES (SPEAKERS AND STROBES) TO ACTIVATE THROUGHOUT THE BUILDINGS. ALL ALARM CONDITIONS WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL (FACP) AND REMOTE ANNUNCIATOR AND WILL BE TRANSMITTED TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.
- SUPERVISORY CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A SUPERVISORY CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.
- TROUBLE CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A TROUBLE CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.
- SPRINKLER FLOW SWITCH: THE FIRE PROTECTION SPRINKLER SYSTEM MAIN FLOW SWITCH SHALL BE CONNECTED AS AN ALARM INITIATING DEVICE AND SHALL BE ANNUNCIATED SEPARATELY. FIRE PROTECTION SPRINKLER SYSTEM ZONE FLOW SWITCHES SHALL BE CONNECTED AS AN AUTOMATIC INITIATING DEVICE AND EACH SWITCH SHALL BE SEPARATELY ANNUNCIATED.
- SPRINKLER FLOW SWITCH SHALL TRANSMIT A SEPARATE ALARM SIGNAL FROM OTHER ALARM CONDITIONS.
- SPRINKLER SYSTEM TAMPER SWITCH: TAMPER SWITCHES CONNECTED TO THE VALVES OF THE FIRE PROTECTION SYSTEM SHALL BE ANNUNCIATED AS SUPERVISORY CONDITION.
- ALL SIGNALS SHALL BE ANNUNCIATED AT THE

ALARM SILENCE:

- AUDIBLE NOTIFICATION DEVICES MAY BE SILENCED.
- VISUAL DEVICES WILL REMAIN ON UNTIL THE SYSTEM IS RESET.

INITIATING DEVICE OPERATIONS:

- PULL STATIONS WILL CAUSE A GENERAL ALARM.
- SPRINKLER FLOW SWITCHES WILL CAUSE A GENERAL ALARM.
- DUCT DETECTORS WILL CAUSE A SUPERVISORY CONDITION.
- ANY TAMPER SWITCH WILL CAUSE A SUPERVISORY CONDITION.
- SMOKE/HEAT DETECTORS WILL CAUSE A GENERAL ALARM AFTER AN ALARM VERIFICATION PROCESS.

AUXILIARY CONTROLS:

- AIR HANDLING UNITS CONTROLLED BY THE FIRE ALARM SYSTEM WILL SHUTDOWN THROUGHOUT THE BUILDING ON AN ALARM CONDITION. UPON SILENCING FIRE ALARM SYSTEM HVAC SYSTEM SHALL AUTOMATICALLY RETURN TO NORMAL OPERATION STATUS.

FIRE ALARM SYSTEM WIRE SCHEDULE

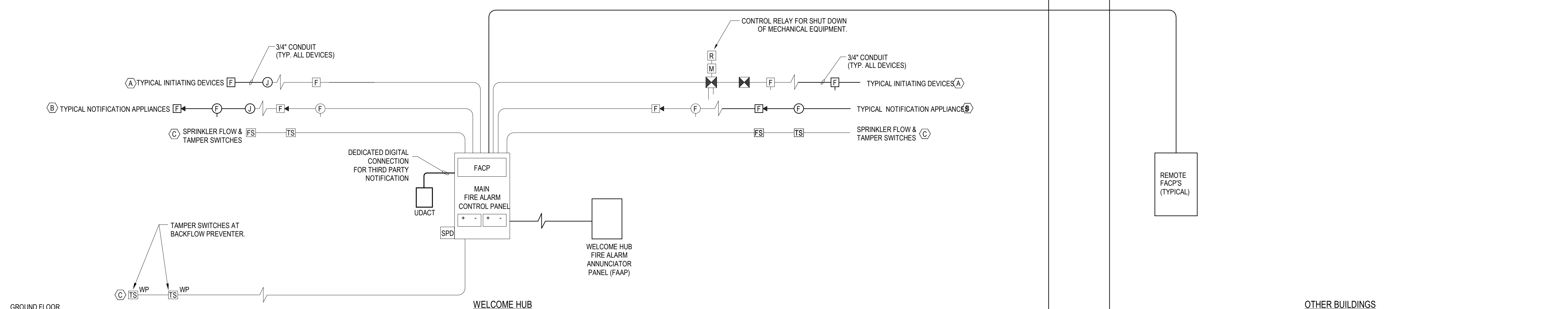
- (A) SIGNALING LINE CIRCUIT: 2 CONDUCTOR #18 AWG. SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE. CLASS B / SURVIVABILITY LEVEL 0
- (B) NOTIFICATION APPLIANCE CIRCUIT: 2 CONDUCTOR #14 AWG. SOLID, SHIELDED CABLE. TYPE "FPLR" CABLE. CLASS B / SURVIVABILITY LEVEL 0
- (C) INITIATING DEVICE CIRCUIT (IDC): 2 CONDUCTOR #18 AWG. SOLID, SHIELDED TWISTED PAIRS. TYPE "FPLR" CABLE.
- (D) SIGNALING LINE CIRCUIT: 2 CONDUCTOR #18 AWG. SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE. CLASS A / SURVIVABILITY LEVEL 3. (INTER-BUILDING)

NOTE:

- * FIRE ALARM SYSTEM WIRING SHALL BE POWER LIMITED.
- * ALL WIRING BELOW GRADE TO BE LISTED FOR WET LOCATIONS.
- * REFER TO POWER AND SYSTEMS PLANS FOR DEVICE LOCATION AND QUANTITY.
- * ALL STROBES SHALL BE 75cd MINIMUM UNLESS OTHERWISE NOTED ON THE FLOOR PLANS.

FIRE ALARM NOTES:

- ALL EQUIPMENT AND DEVICES SHALL BE U.L. LISTED.
- ALL WIRING SHALL CONFORM TO NFPA 72 AND NEC ARTICLE 760 USING FPLR COPPER CABLING IN CONDUIT.
- COLOR CODING AND PROPER LABELING SHALL APPLY TO ALL SYSTEMS WIRING.
- ROUTE FIRE ALARM SYSTEM CONDUIT ACCORDING TO FIRE ALARM CONTRACTOR SHOP DRAWINGS. COORDINATE WITH THE ELECTRICAL CONTRACTOR.
- ALL FIRE ALARM VISUAL SIGNALS IN OPEN AREA SHALL HAVE A THREE PLUS TEMPORAL PATTERN. MULTIPLE STROBES SIMULTANEOUSLY IN VIEW SHALL BE SYNCHRONIZED.
- ALL FIRE ALARM AUDIBLE SIGNALS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL, WHICHEVER IS GREATER.
- MOUNT FIRE ALARM SYSTEM STROBES AND HORN/STROBES AT 80" AFF OR 6" BELOW CEILING, WHICH EVER IS LOWER.
- SMOKE DETECTOR INSTALLATIONS SHALL BE AS PER NFPA 72.
- ADDRESSABLE MONITOR MODULES SHALL BE PROVIDED WITHIN 3' OF ANY NON-ADDRESSABLE INITIATING DEVICES.
- FIRE ALARM CONTROL PANEL SHALL INCLUDE BATTERIES.
- PROVIDE CERTIFICATE OF COMPLETION AT THE FINAL INSPECTION OF THE FIRE ALARM SYSTEM.
- FIRE ALARM CONTRACTOR SHALL PROVIDE A DETAILED SET OF SHOP DRAWINGS (INCLUDING DEVICE CUT-SHEETS), A COMPLETE POINT TO POINT WIRING DIAGRAM, COMPLETE BATTERY CALCULATIONS, & VOLTAGE DROP CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION AT THE TIME OF APPLICATION FOR BUILDING PERMIT.
- PROVIDE THE OWNER WITH A COMPLETE FIRE ALARM SYSTEM OPERATING AND INSTALLATION MANUAL COVERING ALL SYSTEM EQUIPMENT INSTALLED FOR THIS PROJECT. KEEP AT THE FIRE ALARM CONTROL PANEL.
- THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN OFFSITE CENTRAL STATION.
- PROVIDE A SURGE PROTECTION DEVICE (SPD) AT ALL POINTS WHERE CLASS A WIRING LEAVES AND ENTERS ANY BUILDING.



FIRE ALARM RISER DIAGRAM

Revision	Date	No.

JOB
19-028.000

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

SHEET
**FIRE ALARM RISER,
DETAILS, AND
NOTES**

SHEET
EW400



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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	TYPE	COMMENTS
F	ARCHITECTURAL GRADE CEILING FAN	BY ARCHITECT	SELECTIONS BY ARCHITECT	LED	CEILING FANS TO BE SELECTED BY THE ARCHITECT. LINE-ITEM SHOWN FOR REFERENCE ONLY.
LF1	4" LED TUNABLE WHITE DOWNLIGHT	ALPHABET PORTFOLIO BOLD	NU4-RD-TW-13LM-2765-95-HE45-UNV-MOUNTING-COLOR LD4B15DE010W2N2765 EU4B1020W2N902765 4LBXXX CRF4-NIC-T-U-S-Q-TW-F-FINISH-FINISH-11-D	LED	MOUNTING SELECTION TO BE DETERMINED BY CONTRACTOR. COLOR SELECTIONS & LIGHT COLOR TUNING TO BE SELECTED BY ARCHITECT.
LF2	DECORATIVE LED WALL CYLINDER FIXTURE	BEGA LIGMAN FC LIGHTING	24034 K35 UMY-30002-20W-W35 FCC400-11-WM-UNV-935-10L-FINISH-50-LD	LED	MOUNT FIXTURE 10'-0" ABOVE FINISHED GRADE, FINISH TO BE SELECTED BY ARCHITECT. VERIFY MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN
LF3	RECESSED "MOVE IT" DECROATIVE LED TRACK LIGHTING	XAL LITELINE	MOVE1.2-RTL-BL-48V-010V-ST-XXFT KL-I-T-XX-C-X-R-BK	LED	DECORATIVE RECESSED TRACK LIGHTING SYSTEM. COORDINATE WITH ARCHITECT ON LENGTH & SHAPE PRIOR TO ORDERING.
LF4	SURFACE-MOUNT "MOVE IT" DECORATIVE DIRECT/INDIRECT LED TRACK LIGHTING	XAL LITELINE	MOVE1.1-PDT-BL-BW-35K-C90-48V-010V-0500LF-ST-XXFT KL-I-F-S-XX-C-XX-X-BK-KL-SPOT-BK	LED	DECORATIVE SURFACE/PENDANT TRACK LIGHTING SYSTEM. COORDINATE WITH ARCHITECT ON LENGTH & SHAPE PRIOR TO ORDERING.
LF5	RECESSED 2" X 4" LED LINEAR FIXTURE	FINELITE NEORAY MARK ARCHITECTURAL	HP-2-R-D-4"-S-935-F-96LG-120-SC-MOUNTING S122DR-S3500935-XX4FD-1-UDD-F-W SL2L-LOP-4FT-FLP-FL-90CRI-35K-1000LMF-MIN1-120	LED	MOUNTING SELECTION TO BE DETERMINED BY CONTRACTOR.
LF6	5 5/8" LED RECESSED DOWNLIGHT	BEGA LIGMAN LIGHTHEADED	24817 35K UMO-80012-21W-M-W35 2-116-T-04-BRO36-35-8014-WET / D4B-FVR-R-T-3-P-VOLT	LED	COLOR SELECTION TO BE BY ARCHITECT.
LF7	DECORATIVE WALL-MOUNTED LED VANITY FIXTURE	BEGA	50144-FINISH	LED	FINAL MOUNTING HEIGHT TO BE COORDINATED WITH ARCHITECT. FINISH SELECTION TO BE BY ARCHITECT.
LF8	SURFACE/PENDANT-MOUNT 2" X 4" LED LINEAR FIXTURE	FINELITE NEORAY MARK ARCHITECTURAL	HP-2-SM-D-4"-S-935-F-96LG-120-SC-MOUNTING-FE-FINISH S122DM-DP-C3500935-XX-XX4FD-1-UDD-F SZLS-LLP-4FT-90CRI-1000LMF-MIN1-120-WHT	LED	COORDINATE SURFACE OR PENDENT MOUNT WITH ARCHITECT. FINISH SELECTION TO BE BY ARCHITECT.
LF9	RECESS-MOUNT, EDGE-LIT, LED EXIT SIGN	DUAL-LITE SURE-LITES BEGHELLI	LECXRK-FINISH-E EIJXRXX QL2-SA-LR-1/2-C-CR-FINISH	LED	DIRECTIONAL CHEVRONS, WALL OR CEILING MOUNT, SINGLE OR DOUBLE FACE TO BE COORDINATED AT EACH LOCATION.
LF10	ARCHITECTURAL WALL-MOUNT LED FIXTURE	BEGA LIGMAN SISTEMALUX	33341 35K UGN-30031-2X12W-W35 S.7252W/MOD35K-DF-UNV-FINISH	LED	VERIFY FINISH AND MOUNTING HEIGHT WITH ARCHITECT.
LF11	8" DIA. LED PENDANT MOUNT CYLINDER	BEGA LIGMAN FC LIGHTING	24507 35K UJE-9511-39W-W-W35 FCC800-17-SPMLENGTH-UNV-935-30L-FINISH-40-LD	LED	VERIFY FINISH AND MOUNTING HEIGHT WITH ARCHITECT.
LF13	DECORATIVE LED SITE BOLLARD FIXTURE	LIGMAN FC LIGHTING BEGA	ULI-10021-29W-T4-W35-FINISH-120277V FCBT690-UNV-42-4K-19L-FINISH 88977 K35 FINISH 79 802	LED	VERIFY FINISH WITH ARCHITECT.
LF14	SECORATIVE LED SITE COLUMN LIGHT FIXTURE	LIGMAN WE-EF LUMINIS	UBE-20011-20W-W35-FINISH-120277V 645-3421 LQ641-L1L15-R2-LOP669-120277-FINISH	LED	VERIFY FINISH WITH ARCHITECT.

Issue	
Revision	
Date	
No.	

JOB
19-028.000

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

SHEET
LIGHTING FIXTURE SCHEDULE

SHEET
EW402



04/07/2023

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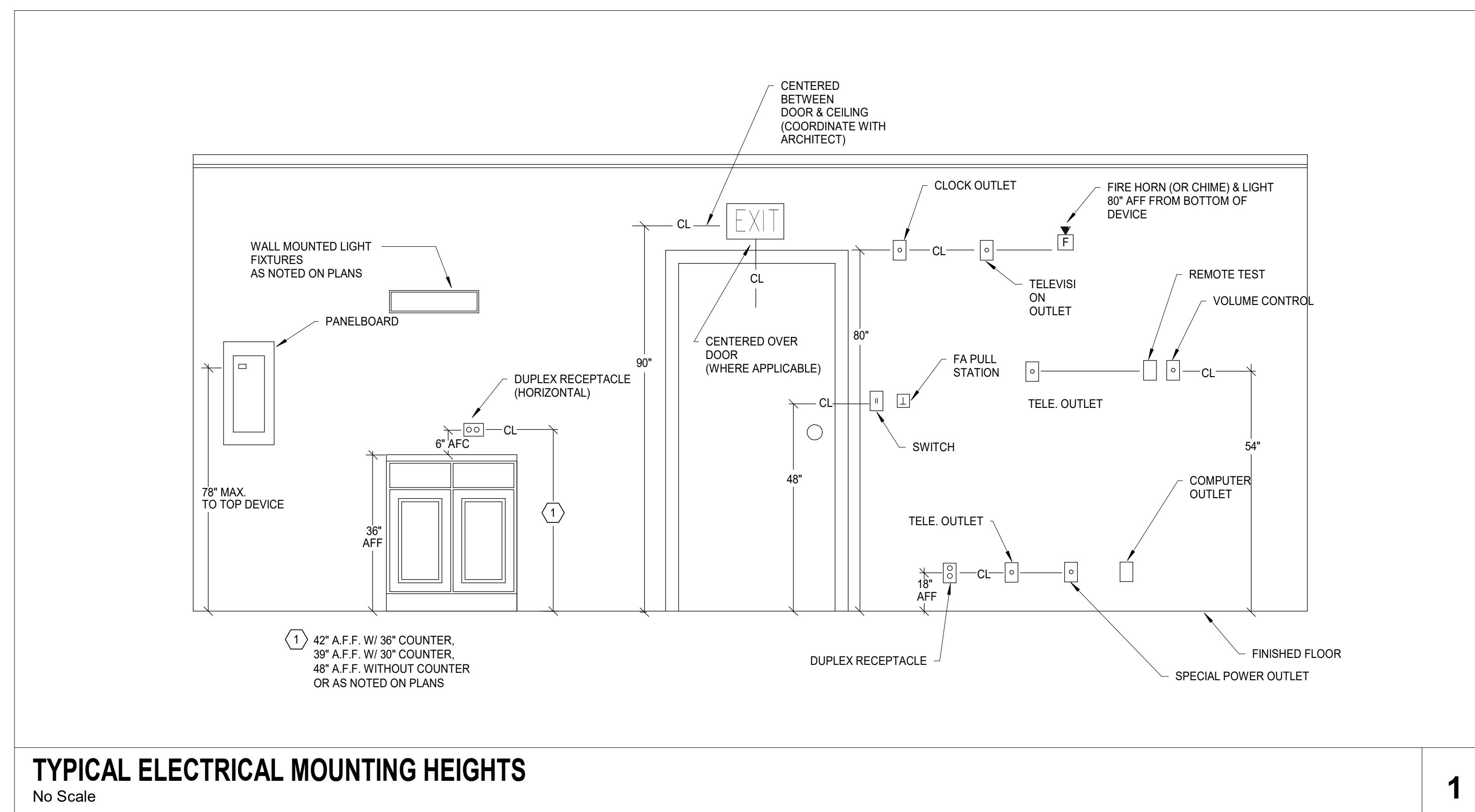
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DATE	NO.	BY	CHKD	REVISION

JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	ELECTRICAL DETAILS
SHEET	EW501

TECHNOLOGY SYSTEMS GENERAL NOTES

- REFER TO SPECIFICATION SECTION "TECHNOLOGY GENERAL PROVISIONS" FOR MORE INFORMATION ABOUT DRAWINGS AND BID DOCUMENTS.
- MANY SYMBOLS USED IN THIS PROJECT HAVE A TYPE ASSOCIATED WITH THEM. SEE SHEETS WITH DETAILS AND PROJECT SPECIFICATIONS FOR MORE INFORMATION ON THE DESCRIPTION OF EACH TYPE.
- ALL CONDUIT FOR TECHNOLOGY SYSTEMS INDOOR ABOVE GRADE SHALL BE EMT AND ALL CONDUIT FOR BELOW GRADE SHALL BE PVC.
- SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED PARTITIONS IN THIS PROJECT. PROVIDE AN APPROVED FIRE STOP SYSTEMS FOR EACH RACEWAY OR CABLE GOING THROUGH A RATED WALL. SEE SPECIFICATION "RACEWAYS FOR TECHNOLOGY" FOR MORE INFORMATION.
- WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110. COORDINATE EQUIPMENT INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
- SYMBOLS USED ON THE TECHNOLOGY DRAWINGS ARE NOT THE SAME SIZE AS THE ACTUAL OBJECT BEING REPRESENTED. THEREFORE LOCATIONS OF THE SYMBOLS ON THE FLOOR PLANS ARE AN APPROXIMATION TO THE ACTUAL LOCATION OF THE DEVICE AND NEED TO BE CAREFULLY COORDINATED WITH OTHER ELEMENTS IN THE VICINITY. AS A GENERAL GUIDELINE:
 - VOICE/DATA OUTLET FOR WORK-AREAS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET INDICATED IN ELECTRICAL DRAWINGS.
 - TV OUTLETS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET SHOWN ON THE ELECTRICAL DRAWINGS.
 - WHEN MULTIPLE TECHNOLOGY SYSTEMS OUTLETS ARE INDICATED NEXT TO EACH OTHER WITH SYMBOLS, THE SPACING BETWEEN OUTLETS SHALL BE CONSISTENT IF NO ELEVATION IS SHOWN ON THE DRAWINGS.
 - WHEN INSTALLER IS NOT CERTAIN ABOUT SPECIFIC ADJACENCIES OF A DEVICE, THE QUESTION SHALL BE ASKED TO THE ENGINEER PRIOR TO INSTALLATION.
- FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE PRIOR TO ANY ROUGH-IN. NOTIFY ENGINEER OF ANY DISCREPANCY.
- LOCATIONS OF FLOOR BOXES AND FLOOR PENETRATIONS SHALL NOT BE MEASURED FROM THIS SET OF DRAWINGS. INSTALLER SHALL REQUEST PRECISE LOCATIONS FROM ARCHITECT.
- EACH VOICE/DATA RJ45 JACK SHALL BE CONNECTED TO A DEDICATED 4 PR CABLE.
- THE RESPONSIBILITY OF RACEWAY INSTALLATION SHALL BE AS DIRECTED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR, BUT ALL RACEWAYS FOR TECHNOLOGY ARE TO BE INCLUDED IN THIS CONTRACT.
- WHEN CONDUIT RUNS ARE INDICATED ABOVE GRADE OR BELOW GRADE ON THESE DRAWINGS, NOT EVERY SINGLE JUNCTION BOX (OR COMMUNICATIONS VAULT) REQUIRED IS INDICATED ON THE DRAWINGS. TYPICALLY ONLY END POINT LOCATIONS OR SPECIFIC PASS-THROUGH LOCATIONS WHERE THE ENGINEER DESIRES A BOX ARE SHOWN ON THE DRAWINGS. SEE SPECIFICATION "RACEWAYS FOR TECHNOLOGY" FOR REQUIREMENTS THAT INDICATE ADDITIONAL JUNCTION BOXES OR COMMUNICATION VAULTS THAT SHALL BE PROVIDED UNDER THIS CONTRACT. SUCH REQUIREMENTS INCLUDE ADDITIONAL BOXES REQUIRED BECAUSE OF NUMBER OF CONDUIT BENDS OR CHANGES IN ELEVATION.
- SOME SYMBOLS INCLUDED IN THE SYMBOL LEGEND MAY NOT BE USED IN THESE PROJECT DRAWINGS.
- UNDER NO CONDITIONS, CONDUITS FOR LOW VOLTAGE FOR FLOOR BOXES SHALL BE DAISY CHAINED TOGETHER BETWEEN ADJACENT FLOOR BOXES. ALL CONDUITS FOR FLOOR BOXES SHALL BE HOME RUNS TO NEAREST ACCESSIBLE CEILING SPACE.
- THIS SET OF DRAWINGS DOES NOT INDICATE ALL GROUNDING AND BONDING REQUIREMENTS FOR TECHNOLOGY SYSTEMS. REFER TO SPECIFICATION SECTION "GROUNDING FOR TELECOMMUNICATION SYSTEM" FOR ADDITIONAL REQUIREMENTS.
- ALL CABLES FOR TECHNOLOGY SYSTEMS RUN UNDER SLAB OR BELOW GRADE IN CONDUITS STUBBING UP INSIDE THE TELECOM ROOM SHALL BE INDOOR/OUTDOOR RATED. FOR CONDUITS STUBBING UP IN OTHER LOCATIONS DIFFERENT FROM TELECOM ROOMS AND FURTHER THAN 50 FT. FROM A TELECOM ROOM, DO NOT USE INDOOR/OUTDOOR RATED CABLES.
- GRAPHICS USED FOR EQUIPMENT IN ELEVATIONS AND CHANNELS (LINE DRAWINGS) DO NOT NECESSARILY REPRESENT THE PART NUMBER OF THE EQUIPMENT SPECIFIED. THE PART NUMBERS LISTED IN THE DRAWINGS AND SPECIFICATIONS ARE TO BE FOLLOWED FOR BASIS OF DESIGN, NOT THE GRAPHICS.
- THE TECHNOLOGY DRAWINGS DO NOT SHOW ALL REQUIRED CONDUITS/RACEWAYS TO BE PROVIDED UNDER THIS CONTRACT. TYPICALLY CONDUIT SLEEVES SMALLER THAN 2" ARE NOT SHOWN ON THE DRAWINGS. SEE SPECIFICATIONS "RACEWAYS FOR TECHNOLOGY" AND DRAWING DETAILS FOR ADDITIONAL RACEWAY REQUIREMENTS.
- DEFINITION OF ACRONYMS USED IN THESE DRAWINGS:
 - NIC (N.I.C.) - NOT IN CONTRACT
 - OFE (O.F.E.) = OWNER FURNISHED EQUIPMENT. SEE RESPONSIBILITY MATRIX FOR MORE INFORMATION.
 - DHI (D.H.I.) = DOOR HARDWARE INSTALLER
 - USC (U.S.C.) = UNDER SEPARATE CONTRACT.
- ALL REQUIRED WALL PENETRATIONS, EXISTING AND NEW, SHALL MAINTAIN THE NEW WALL RATING AFTER CABLING HAS BEEN INSTALLED OR REMOVED.
- ALL SPEAKERS MOUNTED IN A CEILING TILE SHALL BE CENTERED IN THE CEILING TILE.

SECURITY SYSTEM GENERAL NOTES

- SYMBOLS USED TO REPRESENT DEVICES SUCH AS CCTV CAMERAS, INTERCOM STATIONS, SECURITY WORKSTATIONS, CALL STATIONS, AND EMERGENCY PHONE STATIONS REQUIRE ONE (1) DATA DROP FOR SUCH DEVICE. THIS DATA DROP IS NOT SHOWN ON THE VOICE/DATA FLOOR PLANS, BUT SHALL BE PROVIDED FOLLOWING ALL REQUIREMENTS FOR VOICE/DATA DROPS INDICATED IN THE DRAWING DETAILS AND IN THE SPECIFICATION "STRUCTURED CABLING SYSTEM".
- ANY DATA DROPS FOR SECURITY DEVICES EXCEEDING 295 FT. OF PERMANENT LINK DISTANCE TO THE TELECOM ROOM WHERE CAMERA WILL BE WIRED TO, SHALL BE WIRED WITH FIBER OPTICS FOR HORIZONTAL CABLING AND A 2 CONDUCTOR AWG-16 CL2(P) CABLE. THE FIBER CABLE SHALL BE AS DESCRIBED IN SPECIFICATION "STRUCTURED CABLING SYSTEM". IF NO INDICATION IN SUCH SPECIFICATION, FIBER OPTIC CABLE SHALL BE A 2-STRAND OM3 CABLE WITH A SUITABLE JACKET FOR THE APPLICATION.
- ALL DOUBLE DOORS THAT ARE SHOWN WITH TWO DOOR POSITIONS SWITCHES ARE TO RECEIVE (1) DOOR POSITION SWITCH ON EACH DOOR LEAF AND SHALL REPORT AS ONE ALARM POINT.
- ALL CAMERAS, CARD READERS AND/OR KEYPADS DEDICATED FOR ELEVATOR FLOOR SELECTION CONTROL ARE SHOWN INSIDE THE ELEVATOR CAB ON THE LOWEST LEVEL FLOOR PLAN TO HIGH THE ELEVATOR TRAVELS.
- LOCATION OF SURVEILLANCE CAMERAS SHALL BE CLOSELY COORDINATED WITH OTHER TRADES TO AVOID OBSTRUCTIONS IN THE FIELD OF VIEW. IT IS NOT REQUIRED FOR CAMERAS TO BE MOUNTED IN CENTER OF A CEILING TILE (OR CENTER OF A HALLWAY) IF THAT LOCATION CAUSES AN OBSTRUCTION IN THE FIELD OF VIEW OF THE CAMERA. ALL CAMERAS ARE TO BE INSTALLED AS TO MINIMIZE THE OBSTRUCTIONS IN THE FIELD OF VIEW WITHIN A 4' RADIUS OF THE SPECIFIED LOCATION.
- SURVEILLANCE CAMERAS INDICATED IN THE CORNER OF A ROOM SHALL BE INSTALLED AS CLOSE AS PHYSICALLY POSSIBLE TO THE CORNER OF THE ROOM TO GAIN THE BEST FIELD OF VIEW FOR THAT CAMERA.
- EACH ACCESS CONTROLLED DOOR IN THE PROJECT HAS A DOOR IDENTIFIER SYMBOL THAT ASSOCIATES THE DOOR TO A CORRESPONDING ROUGH-IN DETAIL IN THE DRAWINGS AND A SPECIFIC FUNCTIONALITY OF THE DOOR IN THE SECURITY SPECIFICATIONS.

GENERAL

- NEW EQUIPMENT
- - - EXISTING WORK AND/OR EQUIPMENT REFERENCE, SHOWN ON MULTIPLE DRAWINGS
- - - DEVICE TO BE REMOVED (DEMO PLANS) UNDER FLOOR CONDUIT (NEW PLANS)
- WIRE AND/OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- - - MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWINGS
- - - - - DETAIL AND/OR SECTION REFERENCE
- CABLE ROUTING BOUNDARY
- FUTURE WORK

BASIC MATERIALS

- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- ⊓ CAPPED CONDUIT
- CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
- CONDUIT CONTINUED
- CONDUIT SLEEVES
X= QTY OF SLEEVES
Y= SIZE OF CONDUITS SLEEVES PENETRATING WALL ABOVE CEILING SPACE.
- IF NO QUANTITY INDICATED USE AS MANY SLEEVES AS REQUIRED TO MATCH CROSS SECTIONAL AREA OF CABLE TRAY NEXT TO SLEEVE.
- TUBULAR RUNWAY, HUNG ABOVE CEILING OR AS NOTED
- CABLE TRAY (TYPE), HUNG ABOVE CEILING OR AS NOTED
- SURFACE MOUNTED ENCLOSED TECHNOLOGY SYSTEMS. SEE SHEETS WITH DETAILS FOR ADDITIONAL INFORMATION
- JUNCTION BOX WALL MOUNTED. SIZE PER NEC. IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER
- JUNCTION BOX CEILING MOUNTED. SIZE PER NEC. IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER
- TELECOMMUNICATIONS GROUND VAULT. SEE DETAILS AND SPECS FOR MORE INFORMATION
X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- TELECOMMUNICATIONS PULLBOX. SEE DETAILS AND SPECS FOR MORE INFORMATION
X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- TECHNOLOGY POLE. SEE SHEETS WITH DETAILS FOR ADDITIONAL INFORMATION

DRAWING NOTES AND DESIGNATIONS

- X DRAWING KEYED NOTES
- ◇ CABLE ROUTING NOTES
- X/Y DETAIL OR SECTION REFERENCE TAG

AUDIO VISUAL EQUIPMENT

- CEILING MOUNTED SPEAKER
X= SPEAKER TYPE
Y= SPEAKER ZONE
Z= DENOTES SPEAKER # IN ZONE
W= DENOTES SPEAKER WATTAGE TAP
NO ZONE INDICATES LOCAL ZONE FOR AV SYSTEM IN ROOM
- WALL MOUNTED SPEAKER
X= SPEAKER TYPE
Y= SPEAKER ZONE
Z= DENOTES SPEAKER # IN ZONE
W= DENOTES SPEAKER WATTAGE TAP
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE
NO ZONE INDICATES LOCAL ZONE FOR AV SYSTEM IN ROOM
- VOLUME CONTROL, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- FLIP TOP DEVICE MOUNTED ON TABLE
- SENS MICROPHONE FOR AMBIENT NOISE, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- SENS MICROPHONE FOR AMBIENT NOISE, CEILING MOUNTED
- MICROPHONE, DESK MOUNTED
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- MICROPHONE, WALL MOUNTED
X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, ONLY ONE TYPE
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET
- MICROPHONE, CEILING MOUNTED
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- WIRELESS ANTENNA FOR WIRELESS MICROPHONE, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, DESK MOUNTED
X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
- TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, WALL MOUNTED, INCLUDES BACK BOX
X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- CAMERA FOR AV SYSTEM, WALL MOUNTED
X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET
- CAMERA FOR AV SYSTEM, CEILING MOUNTED
X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
- ASSISTED LISTENING TRANSMITTER, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET
- ROOM SCHEDULING PANEL, WALL MOUNTED, INCLUDES BACK BOX
X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- AUDIO VISUAL DISPLAY
TT= DISPLAY TYPE WITH MOUNT
XX= SCREEN SIZE
YY= HEIGHT TO CENTER OF SCREEN
- INTERACTIVE WHITEBOARD
TT= DISPLAY TYPE WITH MOUNT
XX= SCREEN SIZE
YY= HEIGHT TO CENTER OF SCREEN
- OVERHEAD PROJECTOR WITH MOUNT
X= TYPE
Y= LENS THROW RATIO
- PULLDOWN PROJECTION SCREEN
X= DIAGONAL DIMENSION IN INCHES
- MOTORIZED PROJECTION SCREEN
X= DIAGONAL DIMENSION IN INCHES
- WALL SWITCH FOR MOTORIZED SCREEN
- PODIUM FOR AV EQUIPMENT. REFER TO DETAIL SHEETS
X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- AV PLATE OUTLET. REFER TO DETAIL SHEETS
X= DENOTES TYPE OF OUTLET, SEE DETAIL FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 1'-6" AFF

VIDEO SURVEILLANCE SYSTEMS

- PAN/TILT/ZOOM CCTV CAMERA, WALL MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- PAN/TILT/ZOOM CCTV CAMERA, CEILING MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- FIXED CCTV CAMERA, WALL MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- FIXED CCTV CAMERA, CEILING MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- 180° CCTV CAMERA, WALL MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- 180° CCTV CAMERA, CEILING MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- 180° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- 180° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- 360° CCTV CAMERA, WALL MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- 360° CCTV CAMERA, CEILING MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- 360° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- 360° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED
X,C= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION. C = CAMERA NUMBER
- CCTV FLAT PANEL DISPLAY WITH MOUNT
XX= SCREEN SIZE
YY= HEIGHT TO CENTER OF SCREEN
- SECURITY SYSTEM WORKSTATION, DESK MOUNTED
X= TYPE

ELECTRONIC SECURITY SYSTEM

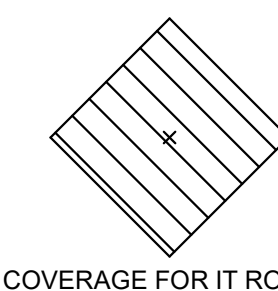
- CARD READER, WALL MOUNTED
- CARD READER WITH INTEGRATED KEYPAD, WALL MOUNTED
- BIOMETRIC ACCESS CONTROL DEVICE, WALL MOUNTED
- KEYPAD, WALL MOUNTED
- WIRED IP LOCK, DOOR MOUNTED
- WIRELESS MORTISE LOCK, DOOR MOUNTED
- WIRELESS CYLINDRICAL LOCK, DOOR MOUNTED
- INTRUSION ALARM KEYPAD
- ELECTRIC MORTISE LOCK OR ELECTRIC TRIM
- DELAYED EGRESS LATCH LOCK
- DELAYED EGRESS MAG LOCK
- ELECTRIC CYLINDRICAL LOCK
- ELECTRIC LATCH RETRACTION LOCK
- ELECTROMAGNETIC LOCK
- ELECTRONIC DETENTION LOCK
- ELECTRIC DOOR STRIKE
- ELECTRIC DOOR OPERATOR (ACTUATOR ARM)
- DOOR POSITION SWITCH
- BALANCED MAGNETIC SWITCH
- PIM MODULE FOR WIRELESS LOCKS, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- ALARM, BLUE LIGHT, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- LOCAL ALARM - HORN/STROBE, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- SIREN ALARM FOR INTRUSION DETECTION, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- ASSISTANCE STATION, WALL MOUNTED
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT. REFER TO SPECIFICATION FOR TYPE
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- ASSISTANCE STATION (BLUE LIGHT), TOWER STATION
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT. REFER TO SPECIFICATION FOR TYPE
- INTERCOM SUBSTATION (DOOR STATION), WALL MOUNTED
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT. REFER TO RISER FOR TYPE
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- INTERCOM MASTER STATION, DESK MOUNTED
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT. REFER TO RISER FOR TYPE
- INTERCOM MASTER STATION, WALL MOUNTED
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT. REFER TO RISER FOR TYPE
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- CALL STATION (THROUGH PHONE LINE) FOR BUILDING ENTRY, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- DOOR TYPE IDENTIFIER
X= TYPE (A1,C3,B6...), REFER TO SECURITY DOOR DETAILS
- DOOR RELEASE BUTTON, WALL MOUNTED
X= A: ADA ACCESSIBLE - (PALM ACTUATOR), W: HAND WAVE, NO TYPE: REGULAR PUSH BUTTON
- DOOR RELEASE BUTTON, DESK MOUNTED
- REQUEST TO EXIT DEVICE (IR SENSOR), MOUNT CENTERED ABOVE DOOR FRAME
- GLASS BREAK SENSOR, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- GLASS BREAK SENSOR, CEILING MOUNTED
- GATE PEDESTAL
- ELECTRIC GATE OPERATOR
- DURESS PANIC BUTTON, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- DURESS PANIC BUTTON, MOUNTED UNDER DESK
- MOTION DETECTOR, WALL MOUNTED, MOUNT 6" BELOW CEILING OR 8'-0" AFF MAX
- MOTION DETECTOR, 360 DEGREE SENSOR, CEILING MOUNTED
- DURESS PANIC BUTTON, WALL MOUNTED
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- INFANT ABDUCTION SYSTEM, CEILING MOUNTED ABOVE DOOR
- LINE BETWEEN SECURITY DEVICES, INDICATES ASSOCIATED EQUIPMENT
- CONTROLLED DOOR INTERLOCK GROUP. PROGRAMMED SO ONLY ONE DOOR CAN BE OPEN AT A TIME.
- ACCESS CONTROL DOOR DIRECTION, A1/A2 - REPRESENTS ACCESS CONTROL PATH
FREE - NO ACCESS CONTROL
CR - CARD READER
BIOMETRIC - BIOMETRIC READER
CR/KP - CARD READER AND KEYPAD
MONITORED - DOOR MONITORED

VOICE AND DATA SYSTEM

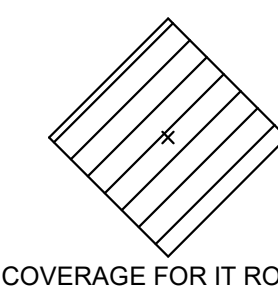
- TELECOMMUNICATION OUTLET
X= MOUNTING; (E= EXISTING, F= FLUSH, S= SURFACE, M= MODULAR FURNITURE ADAPTER,
P= POLE, L= FLOOR, R= RACEWAY)
N= NUMBER OF DATA CABLES IN THE FACEPLATE
Y= NOT USED
Z= NUMBER OF FIBER OPTIC STRANDS IN THE FACEPLATE
U= USER (IF APPLICABLE)
HH= INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, COORDINATE WITH ELECTRICAL. IF NOT SHOWN INSTALL AT TYPICAL RECEPTACLE HEIGHT.
W= WALL TELEPHONE FACEPLATE WITH SUPPORT STUDS, INSTALLED AT 48" AFF AT CENTER OF OUTLET AND 12" FROM EDGE OF WALL.
WP= WEATHERPROOF
- EXAMPLE: F2 = TWO DATA JACKS IN A SINGLE FACEPLATE, FLUSH MOUNTED
- OUTLET FOR MECHANICAL/ELECTRICAL/FIRE ALARM/ELEVATOR/STAR CONNECTION
Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
HH= IF NOT SHOWN, COORDINATE EXACT LOCATION WITH DEVICE
- CEILING MOUNTED INFORMATION OUTLET, MOUNTED ON FINISHED CEILING
XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- OUTLET FOR WIRELESS ACCESS POINT, WALL MOUNTED
Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- OUTLET FOR WIRELESS ACCESS POINT, MOUNTED ON FINISHED CEILING
XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- FLOOR BOX FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU/FLOORBOX SCHEDULE FOR MORE INFORMATION
- F= FLOOR CONDITION; (C= CONCRETE TYPE, G= GRADE, R= RAISED FLOOR, W= WOOD)
Y= DENOTES # OF GANGS (1,2,3...)
Z= DENOTES PLATE TYPE (A,B,C...), A= NO AUDIO/VISUAL
LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- POKE-THRU FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU & FLOOR BOX SCHEDULE FOR MORE INFORMATION
Y= DENOTES POKE-THRU SIZE (4x4", 6x6" 8x8".....)
Z= DENOTES PLATE TYPE (A,B,C...), A= NO AUDIO/VISUAL
LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- FLOOR BOX USED TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- POKE-THRU USED TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- AV BACKBOX, INSTALLED BEHIND DISPLAY/ CRENDENZA RACK, COORDINATE BACKBOX PRIOR TO ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION
G= DENOTES # OF GANGS
XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE
- RECESS IN-WALL STORAGE BOX, INSTALLED BEHIND DISPLAY, COORDINATE BACKBOX PRIOR TO ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION
G= DENOTES # OF GANGS
XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
HH= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE
- POWER POLE FOR COMBINED USE - TECHNOLOGY SYSTEMS AND POWER.
X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- FIBER OPTICS ROUTING TAG FOR BACKBONE CABLING
N= DENOTES CONNECTION TYPE (P=PRIMARY, S=SECONDARY)
XX= DENOTES FIBER STAND QUANTITY
Z= DENOTES RUN NUMBER
REFER TO FIBER OPTICS RISER FOR MORE INFORMATION.

COVERAGE FOR IDF

COVERAGE OF EACH TELECOM ROOM. THE SHADED REGIONS REPRESENT THE MAXIMUM DISTANCE LOW VOLTAGE CABLES CAN BE RUN FROM EACH IDF.



COVERAGE FOR IT ROOM 1



COVERAGE FOR IT ROOM 2

T - WELCOME SHEET LIST

Sheet Number	Sheet Name	TLC_Sub Discipline
TW000	TECHNOLOGY LEGEND AND SHEET INDEX	WELCOME
TW100	WELCOME HUB TECHNOLOGY FLOOR PLAN	WELCOME
TW101	WELCOME HUB AUDIO/VISUAL FLOOR PLAN	WELCOME
TW400	TECHNOLOGY RISER DIAGRAM	WELCOME
TW500	TECHNOLOGY DETAILS	WELCOME

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GULF COAST CENTER
 FOR ECOTOURISM & SUSTAINABILITY
 WELCOME HUB PACKAGE
 GULF SHORES, ALABAMA

DATE	
REVISION	
NO.	
DATE	
NO.	

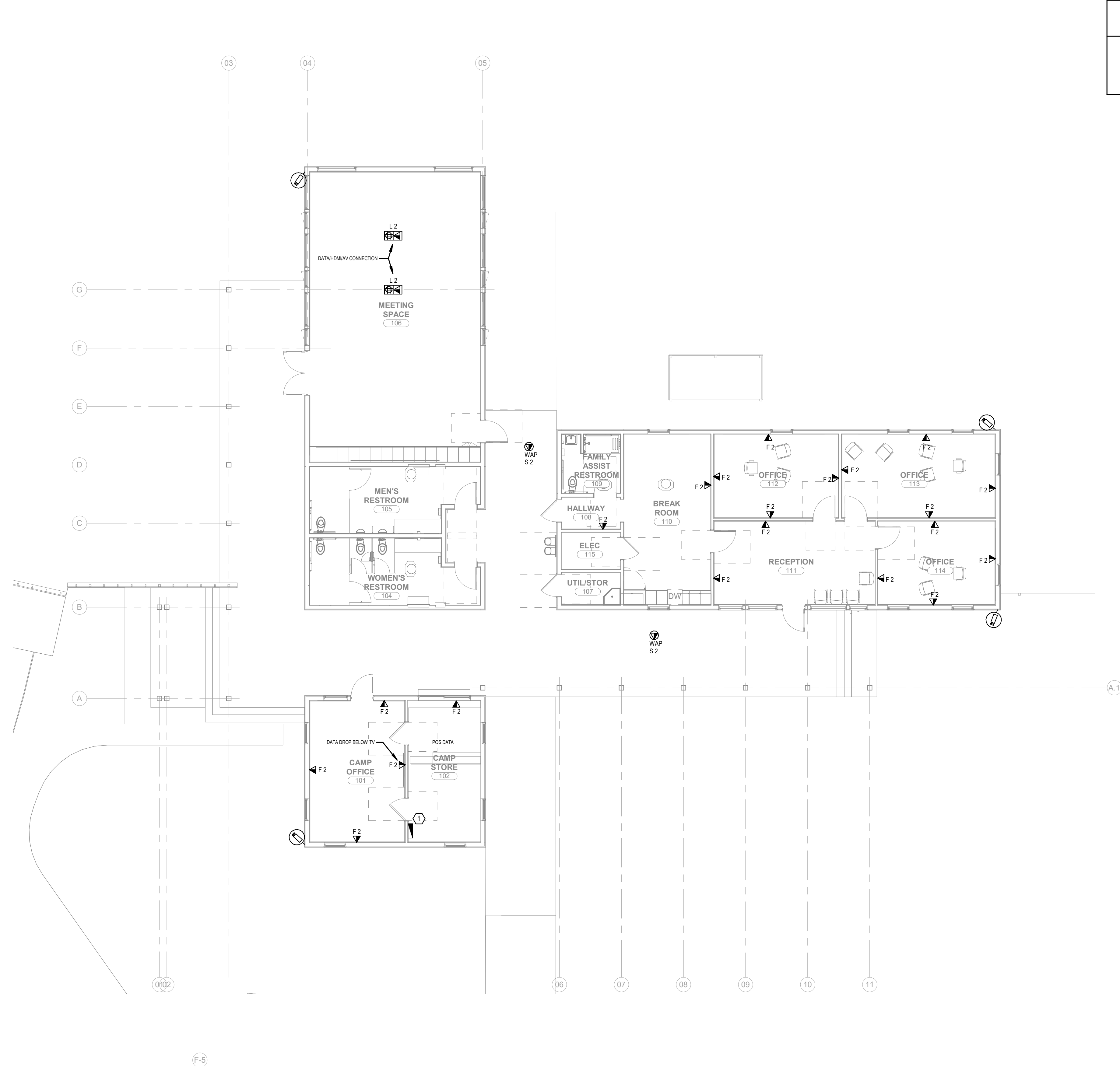
JOB
19-028.000

PROJECT STATUS
CONFORMANCE SET

DATE
MARCH 24, 2023

SHEET
TECHNOLOGY LEGEND AND SHEET INDEX

SHEET
TW000



TECHNOLOGY KEYED NOTES

① PROVIDE WALL MOUNTED EQUIPMENT RACK MOUNTED TO 3/4" PLYWOOD BACKBOARD. DESIGN SELECTION: DWR-12-26PD



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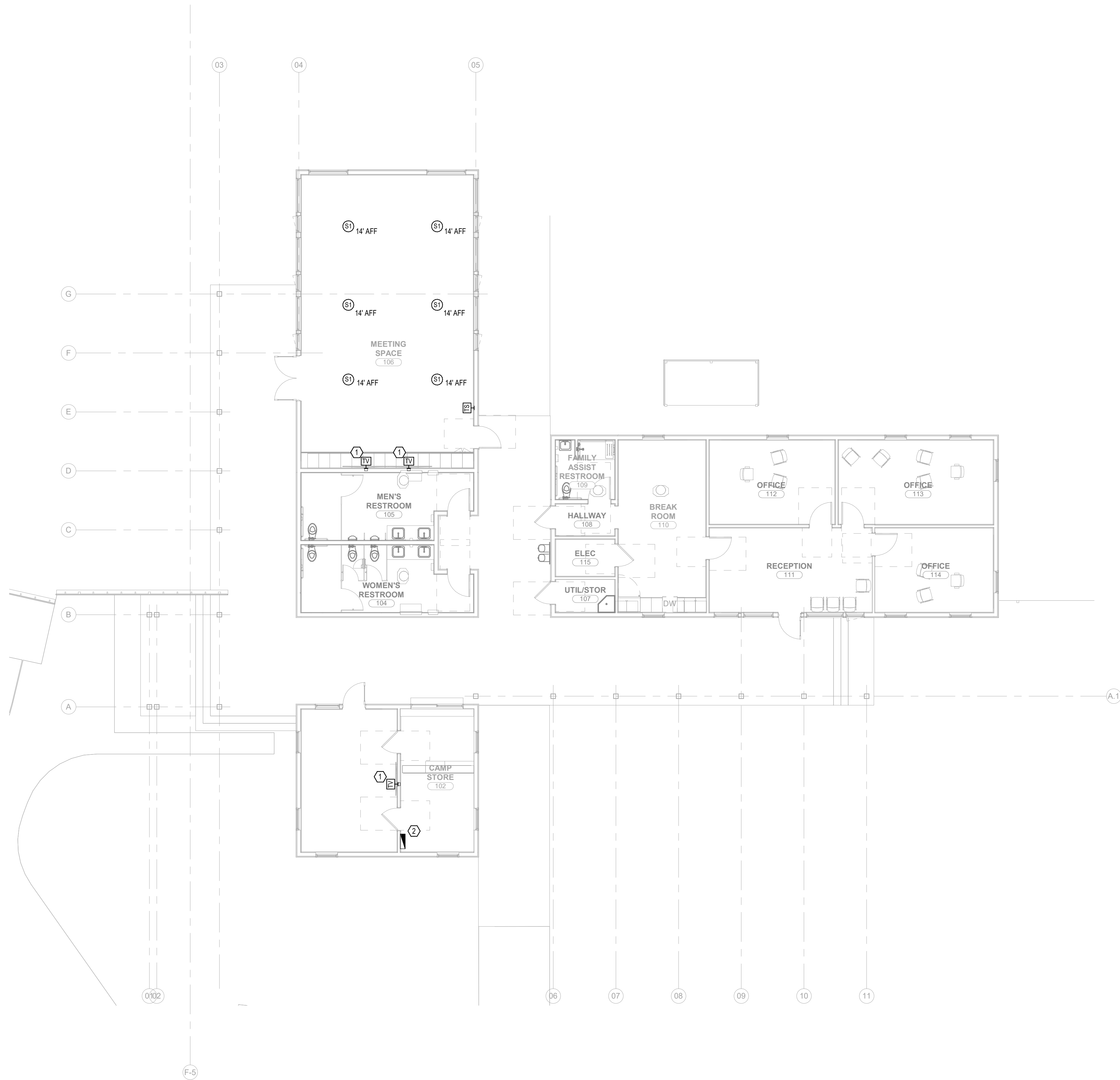
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WELCOME HUB PACKAGE
 GULF SHORES, ALABAMA

1 LEVEL 1 - WELCOME HUB - TECHNOLOGY
 1/8" = 1'-0"

INSTR.	
REVISION	
DATE	
NO.	
JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	WELCOME HUB TECHNOLOGY FLOOR PLAN
SHEET	TW100



TECHNOLOGY KEYED NOTES

- PROVIDE 65" 4K HDR PROFESSIONAL DISPLAY WITH BRACKET AND IN-WALL STORAGE. DESIGN SELECTION: CHIEF LTM1U AND PAC525F OR APPROVED EQUAL. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.
- PROVIDE WALL MOUNTED EQUIPMENT RACK MOUNTED TO 3/4" PLYWOOD BACKBOARD. DESIGN SELECTION: DWR-12-26PD

MEETING SPACE AV DESIGN NOTES:
 PROVIDE OSC NV-32-H (CORE CAPABLE) MOUNTED BEHIND TV'S IN MEETING ROOM SPACE 106.
 PROVIDE OSC (TSC-55W-G2) WALL MOUNTED TOUCH SCREEN CONTROLLER.
 PROVIDE OSC (AD-P6T) PENDENT SPEAKERS MOUNTED @ 14' AFF, TAP SPEAKERS @ 15W EACH.
PROVIDE FOLLOWING AV EQUIPMENT IN WALL MOUNTED RACK LOCATED IN CAMP STORE 102:
 PROVIDE OSC NS SERIES NETWORK SWITCH (NS12-720+) FOR AV NETWORK.
 PROVIDE OSC (SPA-200) 2 CHANNEL AMPLIFIER FOR MEETING ROOM PENDENT SPEAKERS.
 PROVIDE MIDDLE ATLANTIC (PD-915RC-20) RACK MOUNT POWER STRIP. SEE SHEET TW400 FOR RISER DIAGRAM.

1 LEVEL 1 - WELCOME HUB -
 AUDIO/VISUAL PLAN 1
 1/8" = 1'-0"

TLC ENGINEERING SOLUTIONS
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 Fort Myers, FL 33907
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 COA 15
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THINK. LISTEN. CREATE.



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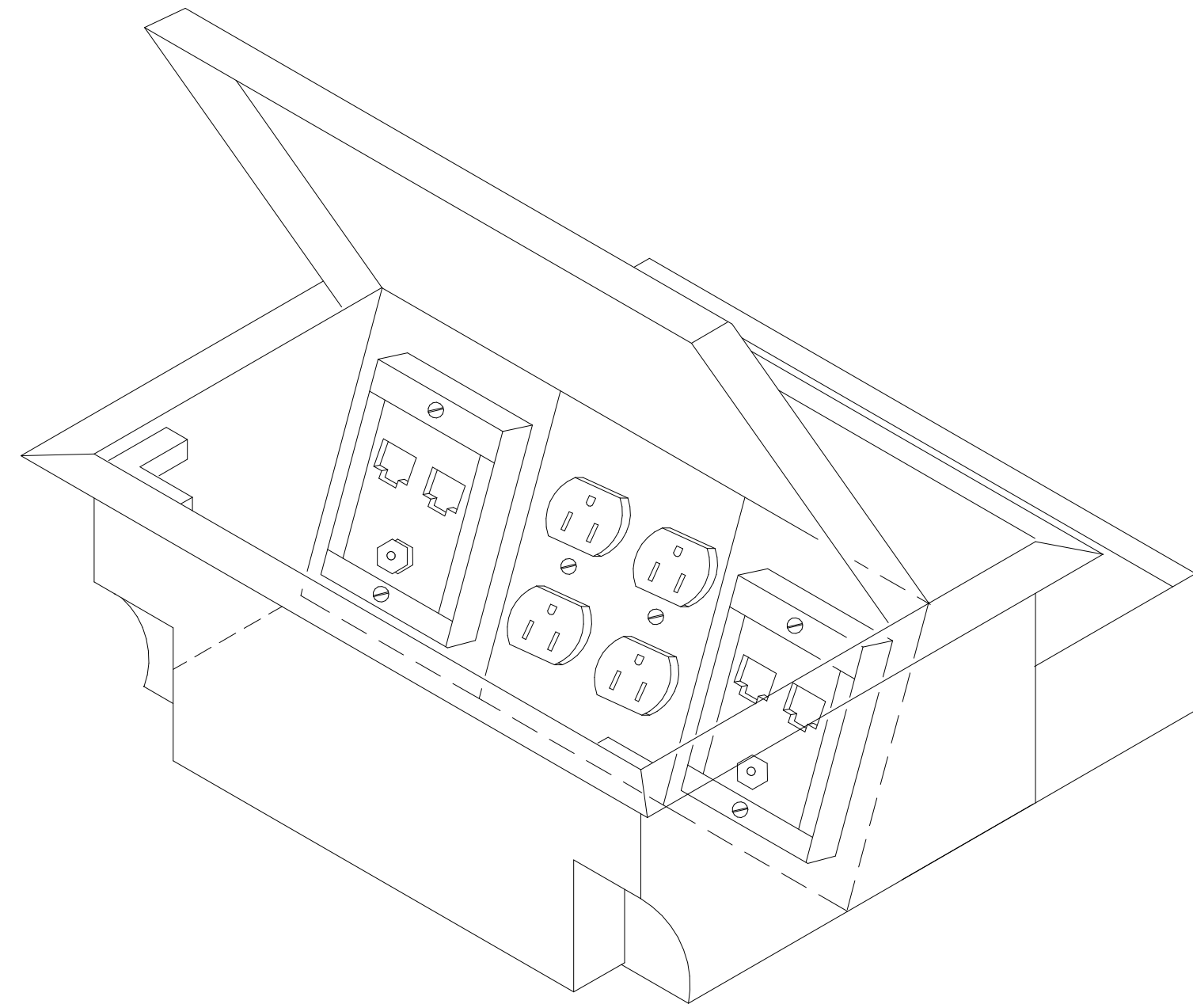
ARCHITECTURE WORKS
 130 NINETEENTH STREET SOUTH
 BIRMINGHAM, ALABAMA 35233
 TELEPHONE: 205.320.0880
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 Fairhope, AL 36532
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GULF COAST CENTER
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 WELCOME HUB PACKAGE
 GULF SHORES, ALABAMA

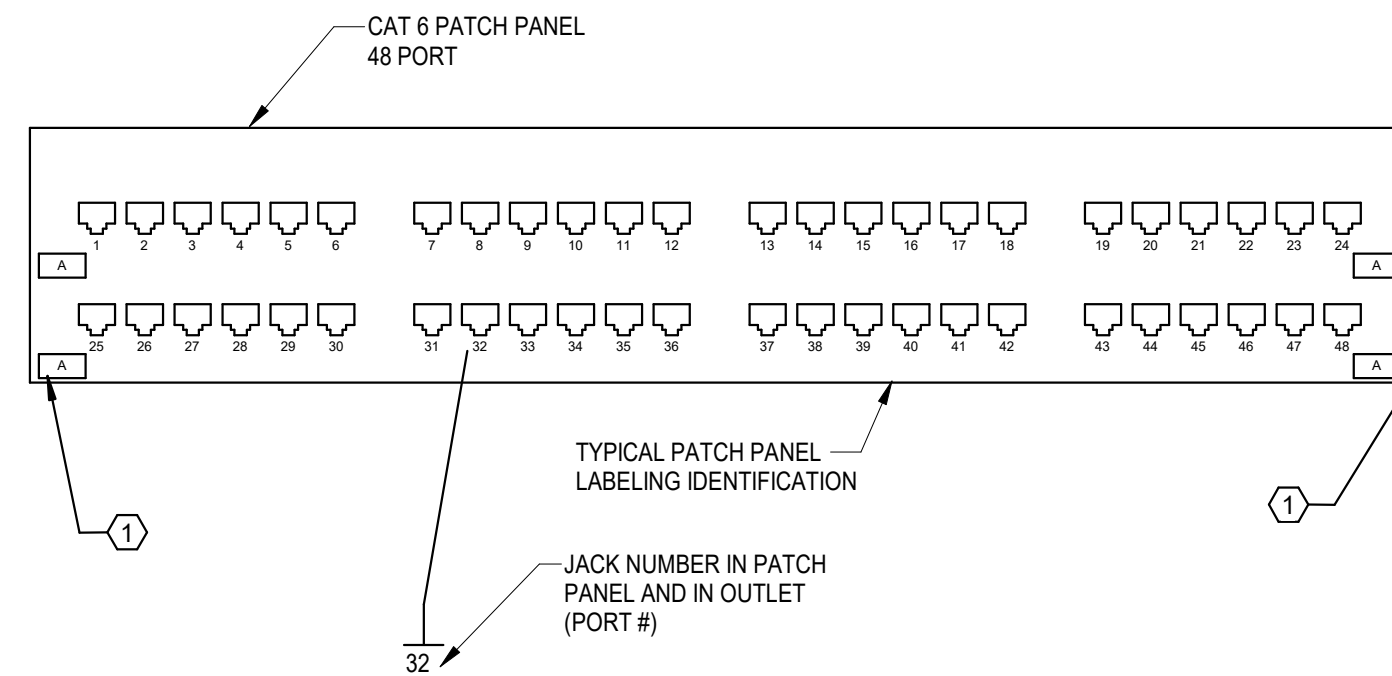
Date	Revision	Drawn

JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	WELCOME HUB AUDIO/VISUAL FLOOR PLAN
SHEET	TW101



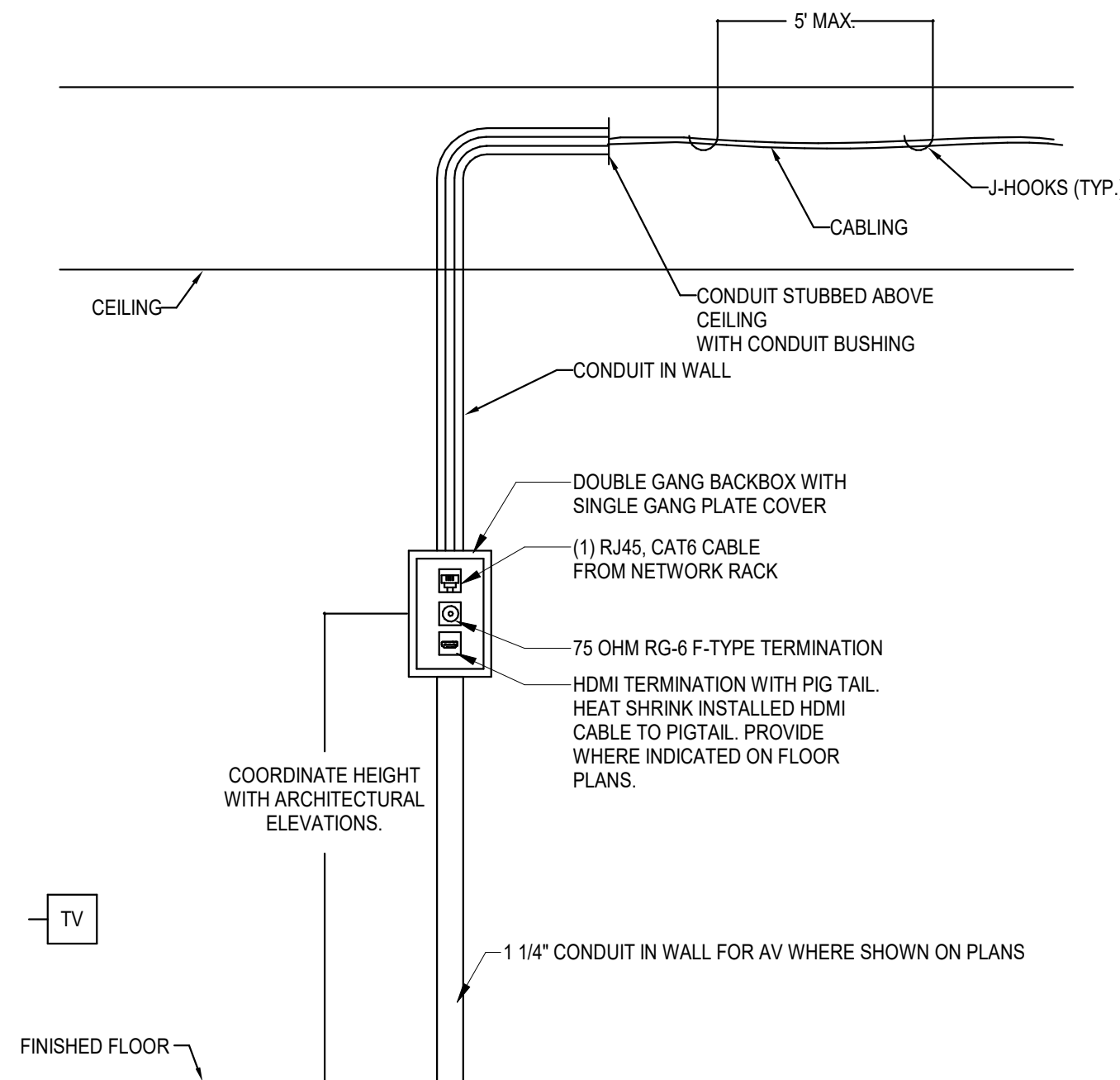
DETAIL NOTE:
WITH POUR PAN ACCESSORY WHEN USED
1. IN SLAB ON GRADE APPLICATIONS.

1 FLOOR BOX - WELCOME CENTER
1" = 1'-0"

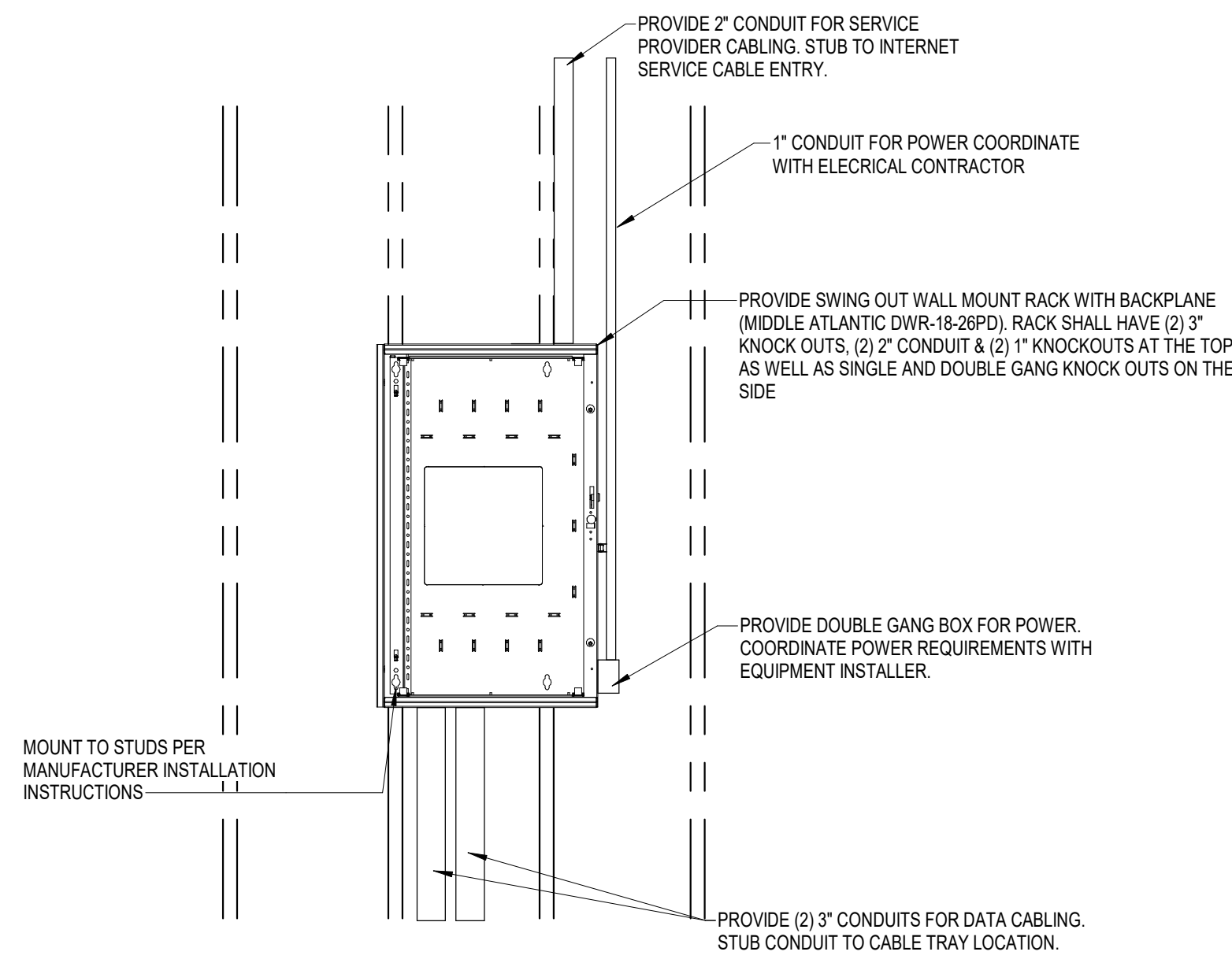


NOTES:
① PATCH PANELS WILL BE # A,B,C, ETC. PATCH PANEL PORT COUNT TBD PER BUILDING.

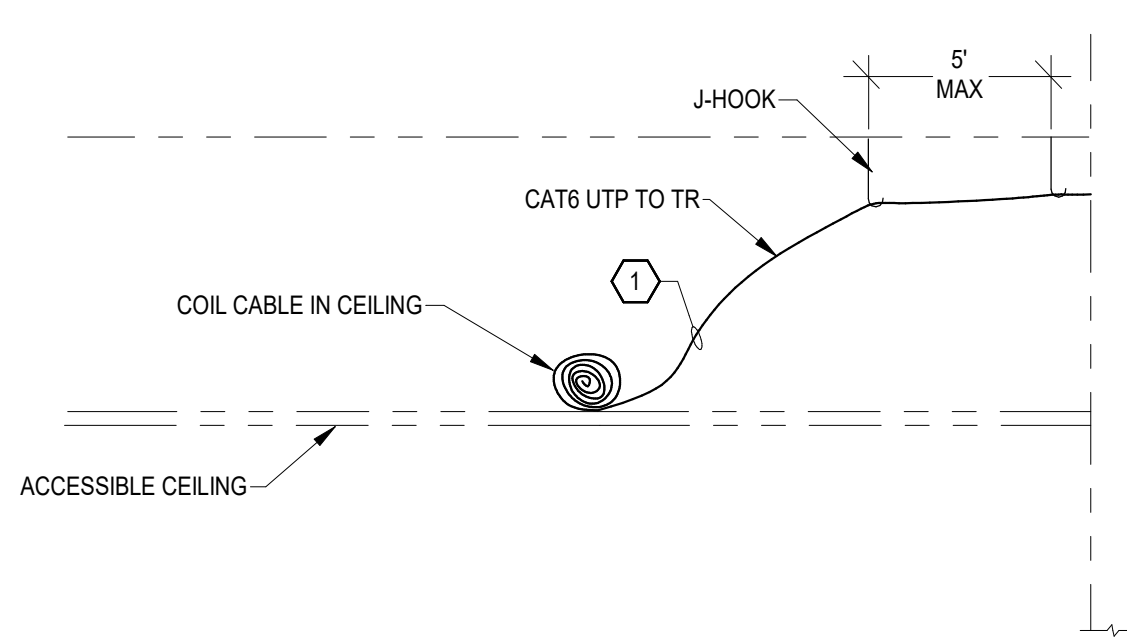
2 PATCH PANEL - WELCOME CENTER
1" = 1'-0"



3 TYPICAL T.V. OUTLET - WELCOME CENTER
1" = 1'-0"

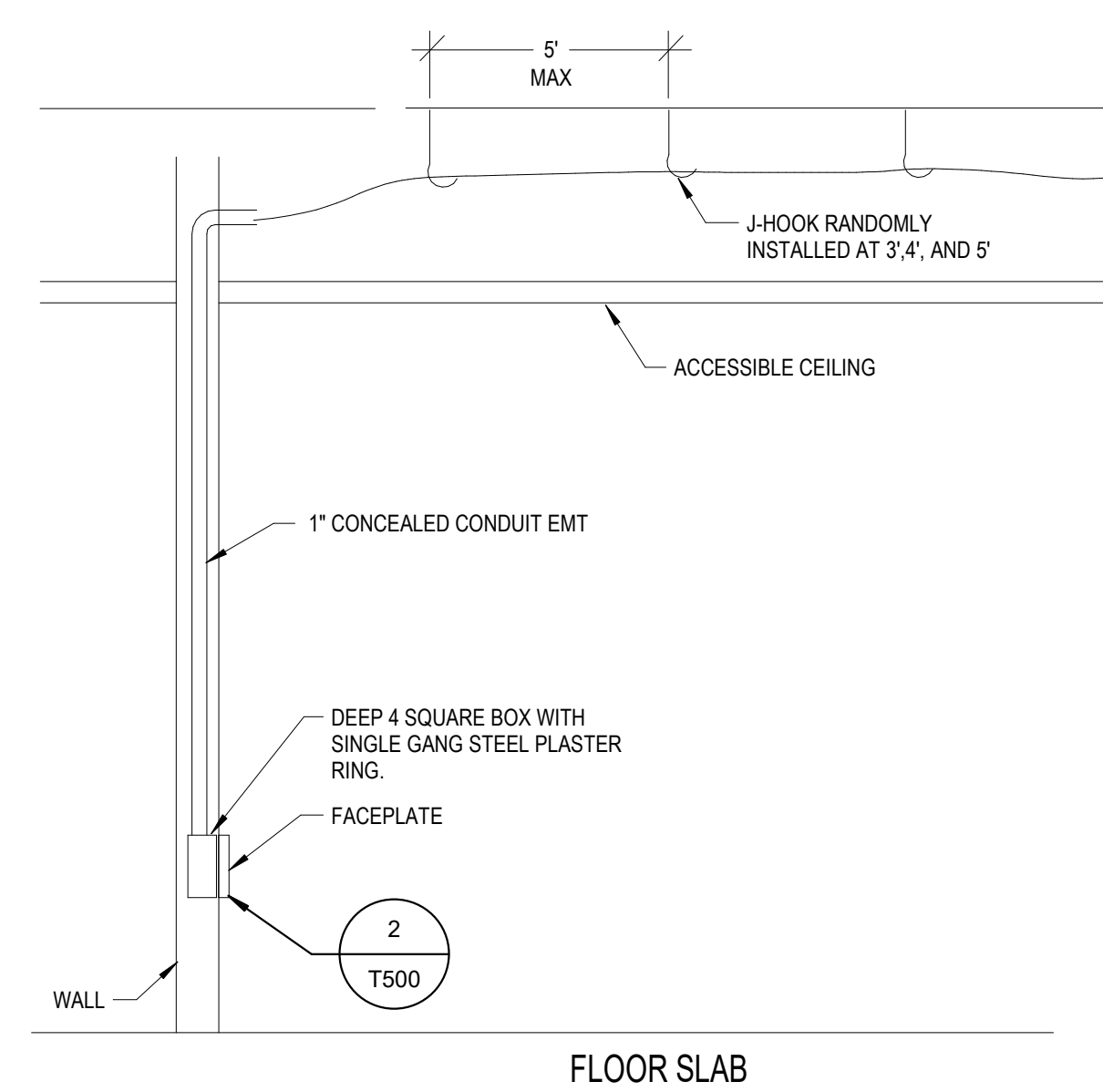


4 WALL MOUNTED RACK DETAIL - WELCOME CENTER
3/4" = 1'-0"



NOTE: WIRELESS ACCESS POINT AND ANTENNA NOT IN CONTRACT.
DETAIL NOTE:
① COIL 20' LOOP IN CEILING.

5 WIRELESS ACCESS POINT (COILED IN CEILING) - WELCOME CENTER
1" = 1'-0"

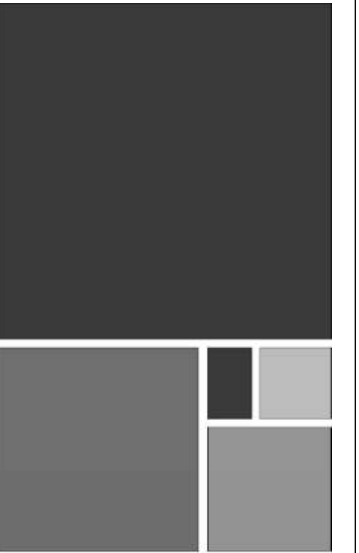


6 TYPICAL FLUSH MOUNT OUTLET (CONCEALED CONDUIT) - WELCOME CENTER
12" = 1'-0"



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SHEET	TECHNOLOGY DETAILS
SHEET	TW500



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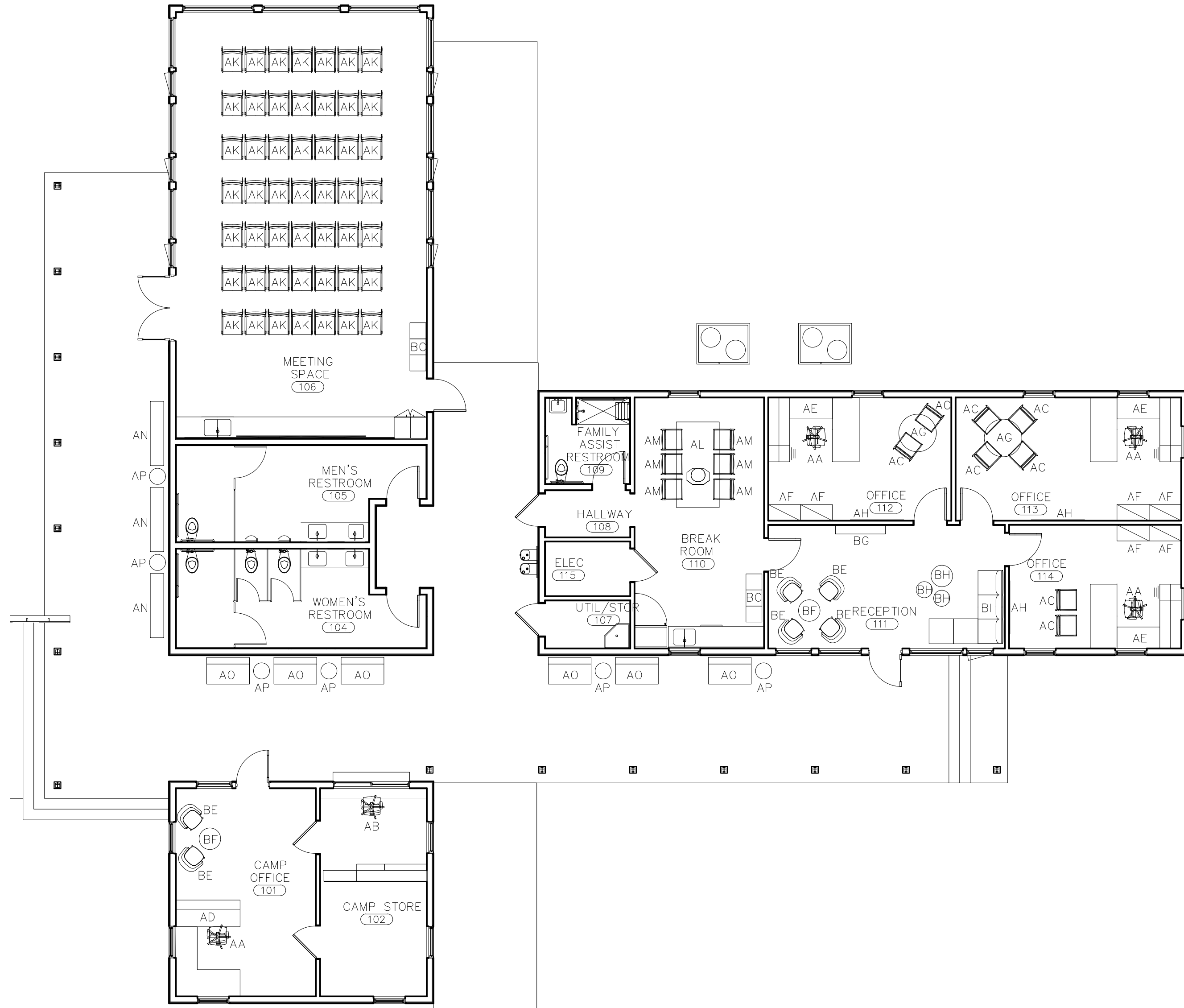
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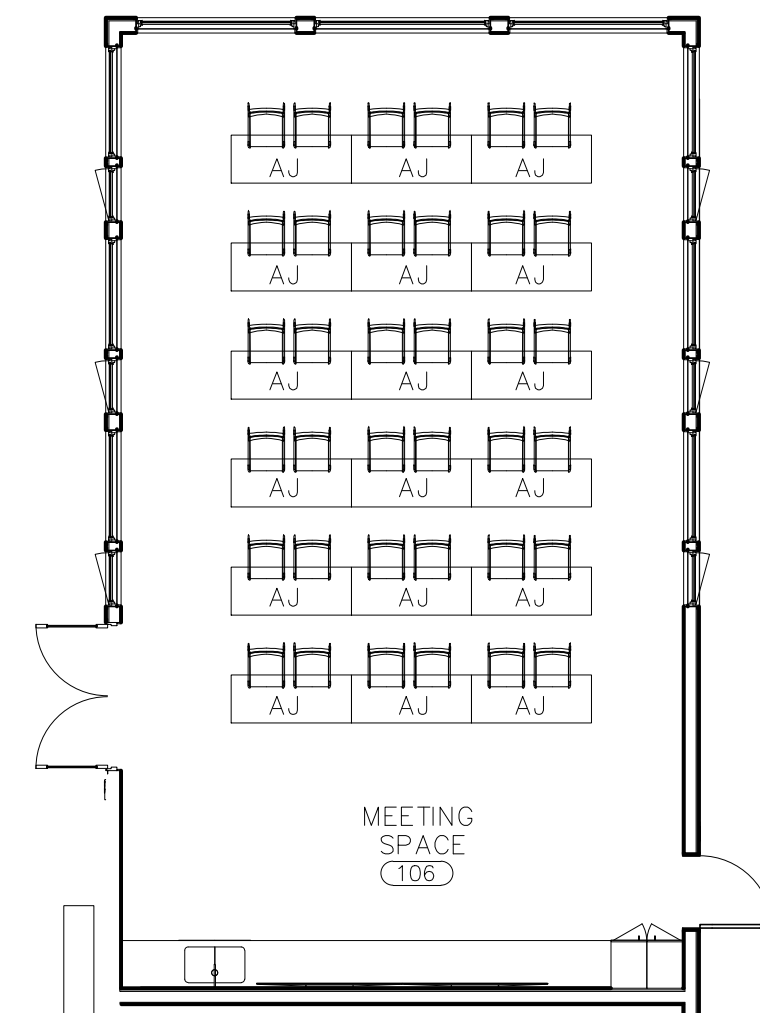
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NOTE: REFERENCE INDIVIDUAL FURNITURE SPEC'S FOR MANUFACTURERS, PRODUCT NUMBERS, QUANTITIES, AND FINISHES

01 FURNITURE PLAN
1/8"=1'-0"



02 ADD. MEETING FURNITURE PLAN
1/8"=1'-0"

NO.	DATE	BY	REVISION

JOB: 19-028.000

PROJECT STATUS: CONFORMANCE SET

DATE: MARCH 24, 2023

SHEET NAME: FURNITURE PLAN

SHEET NO.: IDW100