



**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)**

OCCUPANCY	WATER CLOSETS	LAVATORIES		DRINKING FOUNTAIN	OTHER
		MALE	FEMALE		
OCC CLASS	OCCUPANT LOADS	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 100	
B BUSINESS	13	0.52	0.52	0.13	1 SERVICE SINK
TOTAL REQ'D	13	0.52	0.52	0.13	
TOTAL PROVIDED		N/A	N/A	2	1 SERVICE SINK

**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: BUSINESS (GROUP B)

CONSTRUCTION TYPE: TYPE VB  
 AUTOMATIC SPRINKLER SYSTEM: NO

ALLOWABLE AREAS: B = 9,000 SF (NOT SPRINKLED)  
 ALLOWABLE HEIGHT ABOVE GRADE (VBI): B = 40 FT  
 ALLOWABLE NUMBER OF STORIES (VBI): B = 2 STORIES  
 PROJECT AREAS: 1,877 SF (UNDER ROOF)

**TYPES OF CONSTRUCTION (Chapter 6)**

STRUCTURAL ELEMENTS CONSIST OF CONCRETE SLAB 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.

**MEANS OF EGRESS (Chapter 10)**

OCCUPANCY: B  
 GROSS FLOOR AREAS: 465 SF (INTERIOR UNCONDITIONED)  
 1,316 SF (EXTERIOR COVERED)  
 1,781 SF TOTAL

OCCUPANT LOAD: 13 TOTAL  
 REQ'D EXIT WIDTH: 13 x 0.2 = 2.6'

REQ'D EXIT AMT: 1  
 EXITS PROVIDED: REFER PLAN FOR EXITS AND EXIT ACCESS  
 TRAVEL DISTANCE ALLOWED: 200 FT (NONSPRINKLED)  
 MAX COMMON PATH: 100 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 INTERIOR ELEVATIONS FOR ACCESSIBILITY REQUIREMENTS AT OTHER FIXTURES AND EQUIPMENT.

**PLUMBING FIXTURES (CHAPTER 22)**

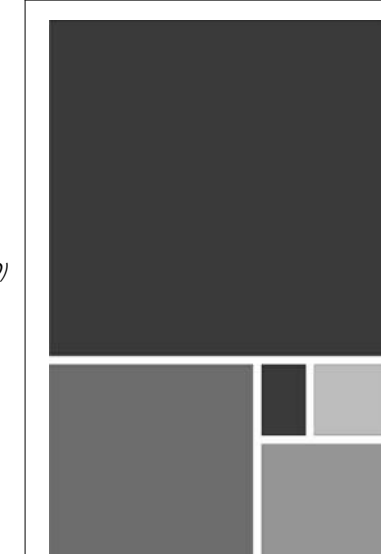
REFER PLUMBING FIXTURE SCHEDULE THIS SHEET FOR REQUIREMENTS AT THIS BUILDING. THIS BUILDING SHARES FIXTURES WITH THE MOBILITY HUB.

FAMILY-ASSISTED RESTROOM PROVIDED AT WELCOME HUB.

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

**BUILDING ENVELOPE**

REFER TO PROVIDED TABLE ON THIS SHEET.



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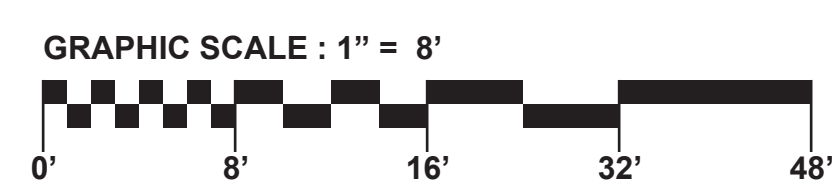
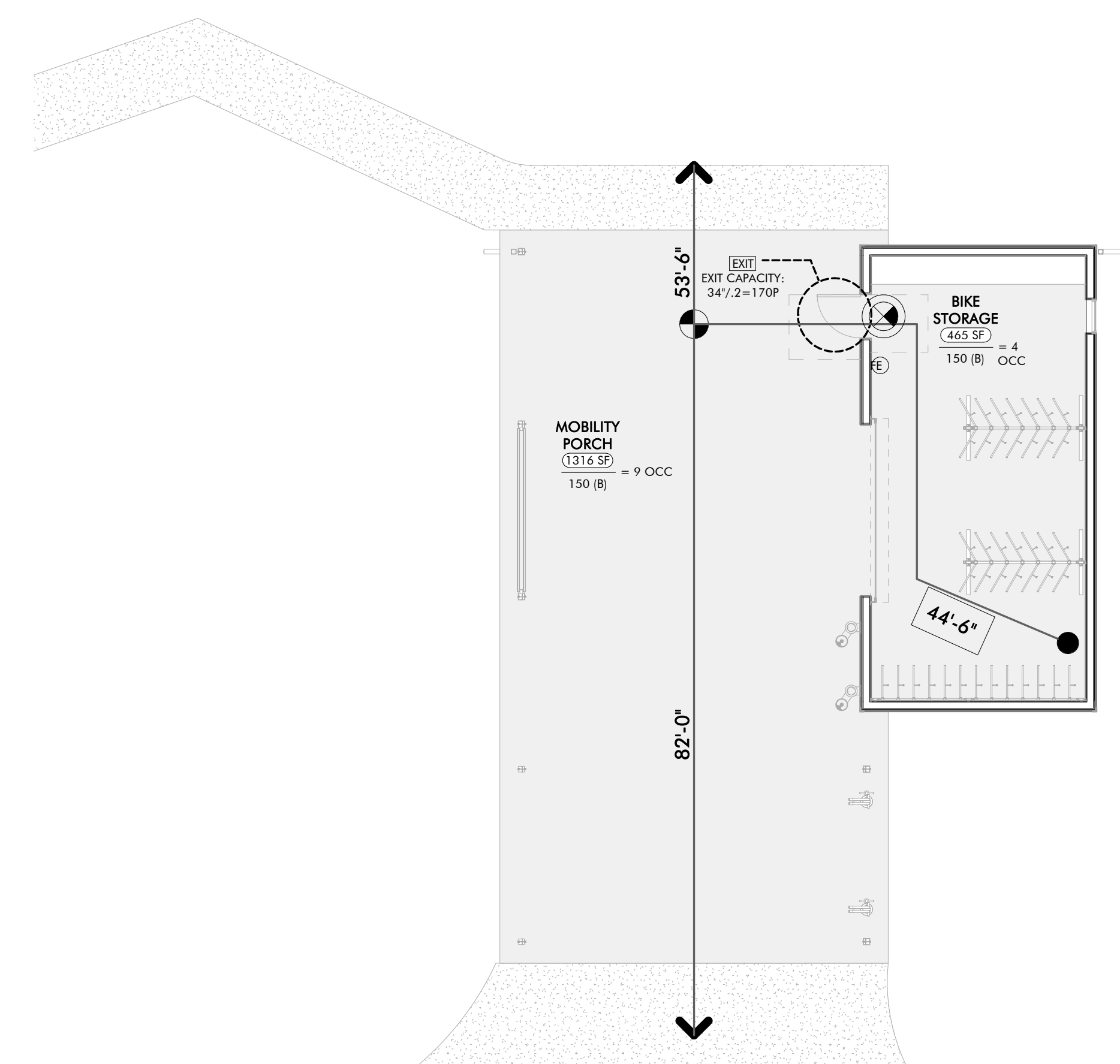
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 p 251.929.0514

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



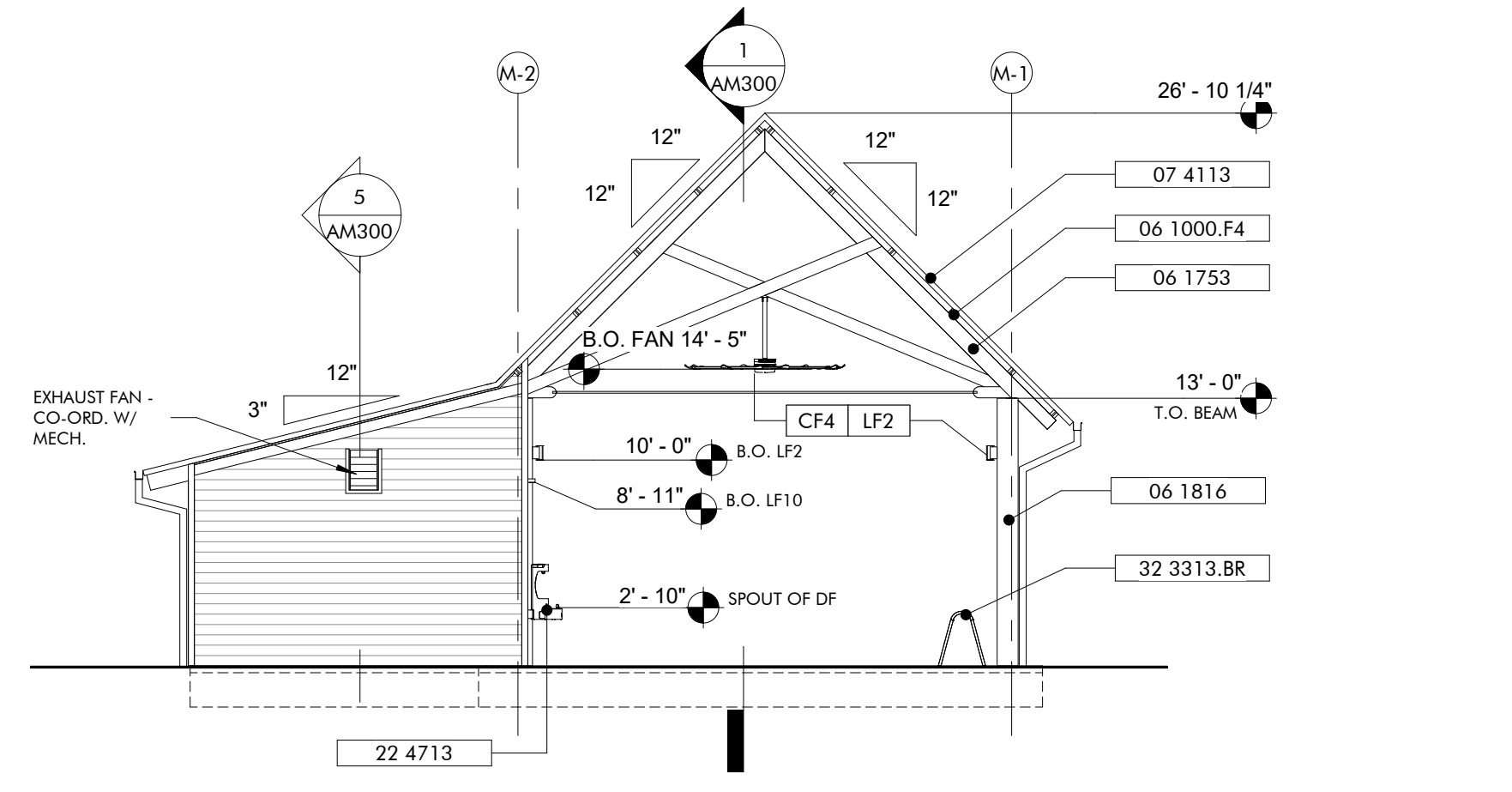
**LIFE SAFETY PLAN**  
 MOBILITY HUB  
 1  
 1/8" = 1'-0"

**SHEET SPECIFIC NOTES**

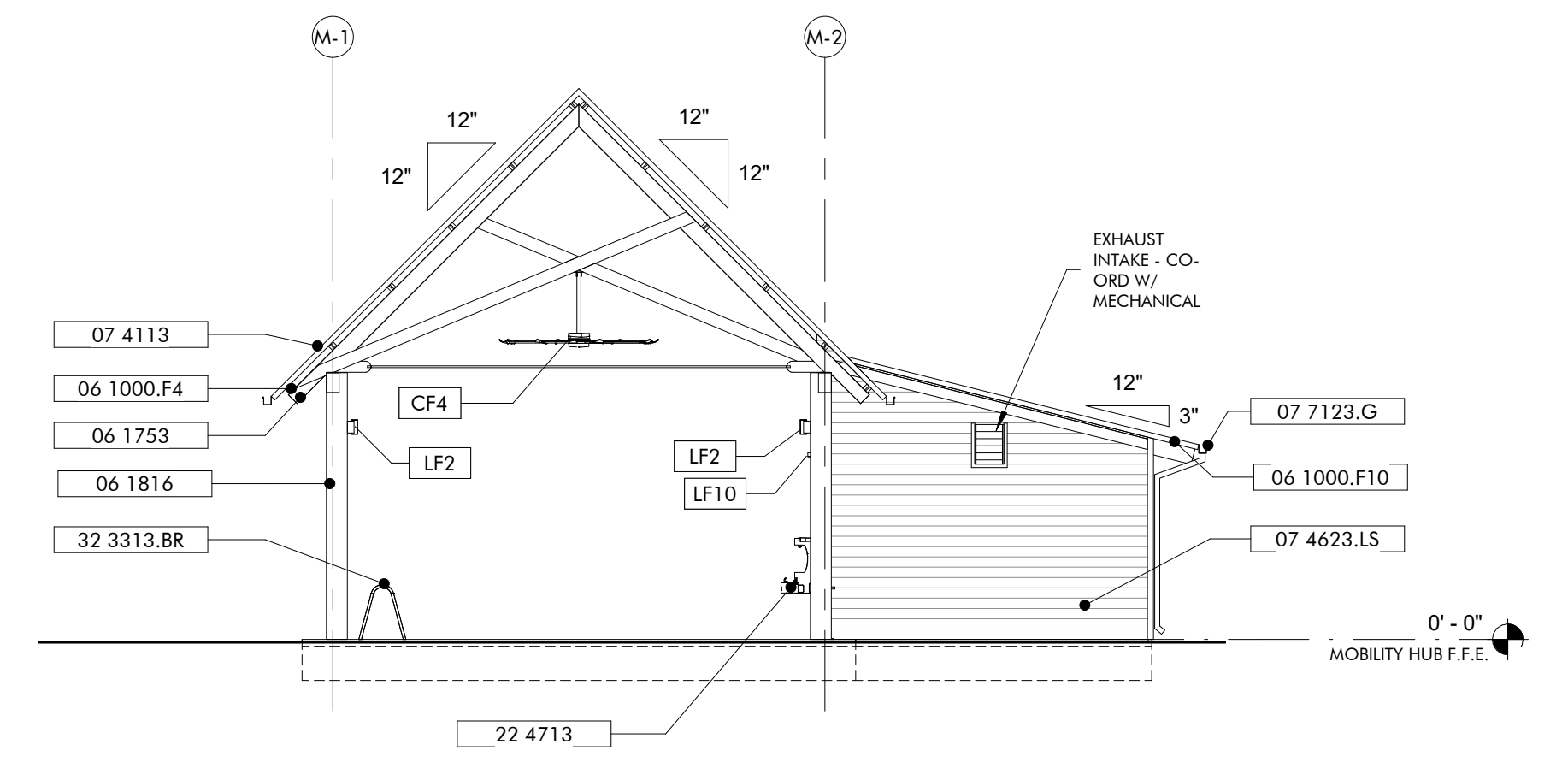
**GRAPHIC LEGEND**

- 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

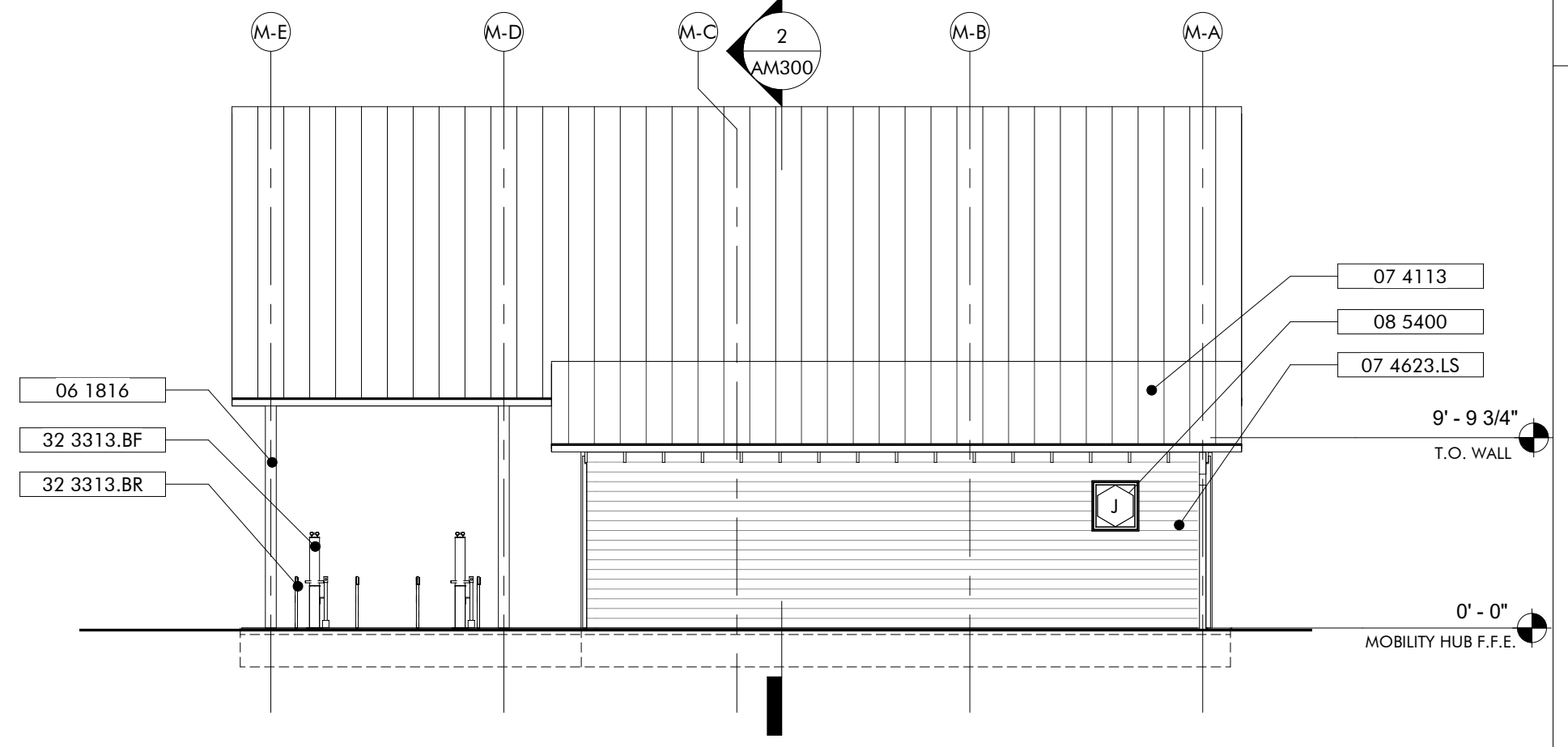
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Project Status	CONFORMANCE SET
Date	MARCH 24, 2023
Sheet Name	CODE REVIEW & LIFE SAFETY
Sheet No.	GM010



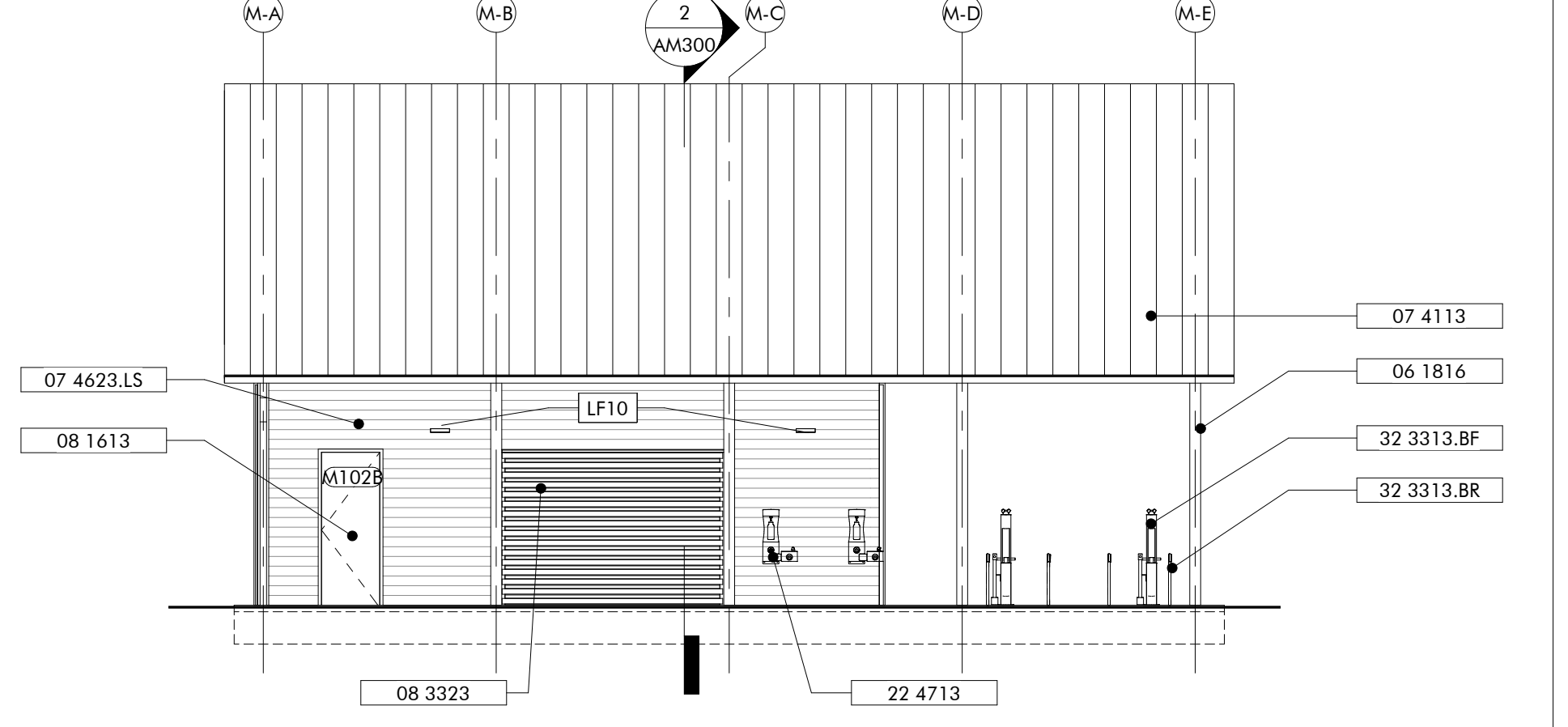
**EXTERIOR ELEVATION**  
MOBILITY HUB - NORTH  
7  
1/8" = 1'-0"



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



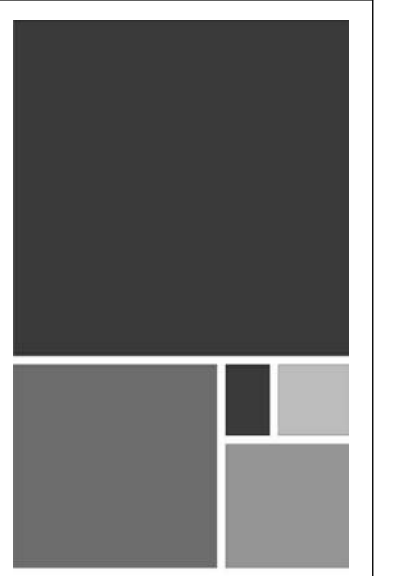
**EXTERIOR ELEVATION**  
MOBILITY HUB - EAST  
6  
1/8" = 1'-0"



**EXTERIOR ELEVATION**  
MOBILITY HUB - WEST  
4  
1/8" = 1'-0"

**KEYNOTES**

06 1000.F4	2x4 Framing
06 1000.F10	2x10 Framing
06 1753	Shop-Fabricated Wood Trusses
06 1816	Glued-Laminated Columns
07 4113	Metal Roof Panels
07 4623.LS	Engineered Wood Lap Siding
07 7123.G	Manufactured Gutters
08 1613	Fiberglass Doors
08 3323	Overhead Ceiling Doors
08 5400	Composite Windows
12 9313	Bicycle Racks
32 4713	Drinking Fountains
32 3313.BF	Bicycle Repair Station
32 3313.BR	Bicycle Racks



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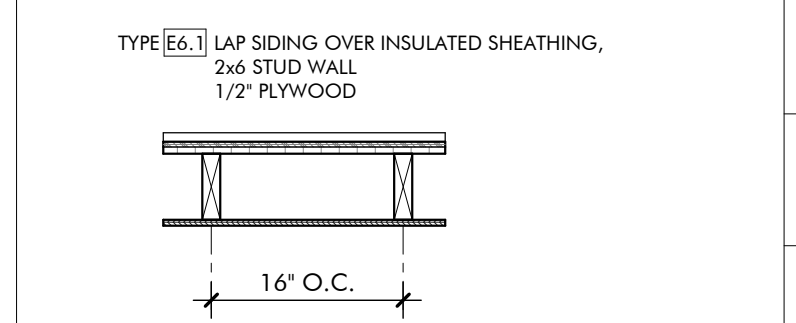
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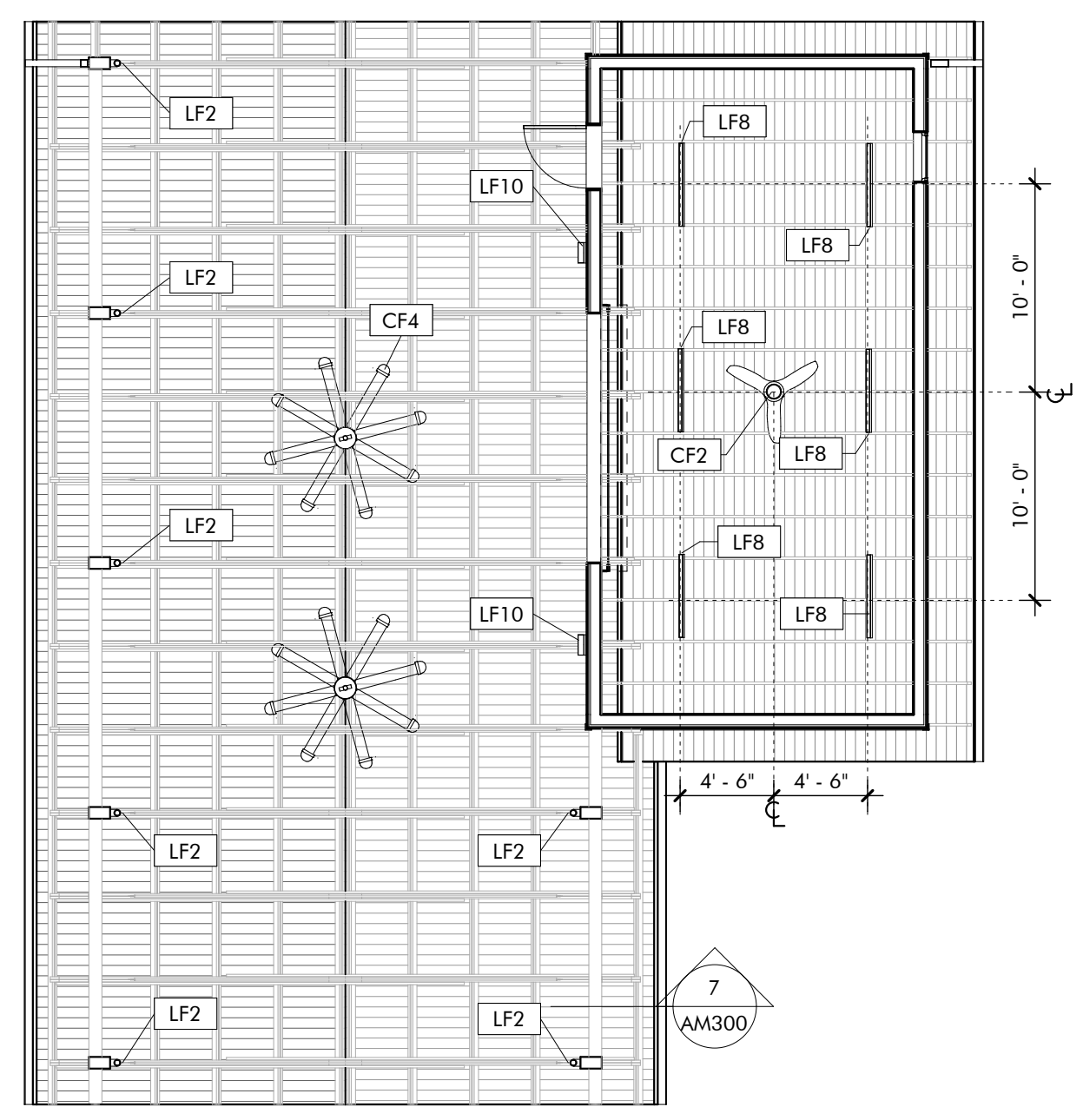
**GULF COAST CENTER**  
FOR ECOTOURISM & SUSTAINABILITY  
MOBILITY HUB PACKAGE  
GULF SHORES, ALABAMA

- GENERAL NOTES**
- REFER SITE & CIVIL PACKAGE FOR BUILDING LOCATION ON SITE.
  - REFER AM600 SCHEDULES FOR PARTITION SCHEDULE, ROOM FINISHES SCHEDULE, AND DOOR SCHEDULE.
  - GRIDLINES - LOCATED ON CENTERLINES OF STRUCTURAL COLUMNS UNLESS OTHERWISE NOTED.
  - EXTERIOR WALLS - DIMENSIONS ARE TO FACE OF STUD UNLESS OTHER 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 AM600 SCHEDULES FOR DOOR AND WINDOW SIZES.
  - AT EXTERIOR PORCHES PROVIDE POSITIVE SLOPE AWAY FROM BUILDING - MAX 2% CROSS SLOPE (+/- 3/16" PER FOOT) - SEE PLAN.

- SHEET SPECIFIC NOTES**
- (2) EXTERIOR WALL MOUNTED DRINKING FOUNTAINS WITH BOTTLE FILLERS - PROVIDE BLOCKING AS REQUIRED
  - (2) BIKE REPAIR STATIONS
  - BIKE PARKING RACKS
  - LINE OF ROOF ABOVE
  - WOOD CASEWORK WITH SOLID SURFACE COUNTER
  - BIKE STORAGE FOR (41) BIKES
  - WOOD SLAT SCREEN, REFER AM500
  - DOWNSPOUT AND SPLASH BLOCK



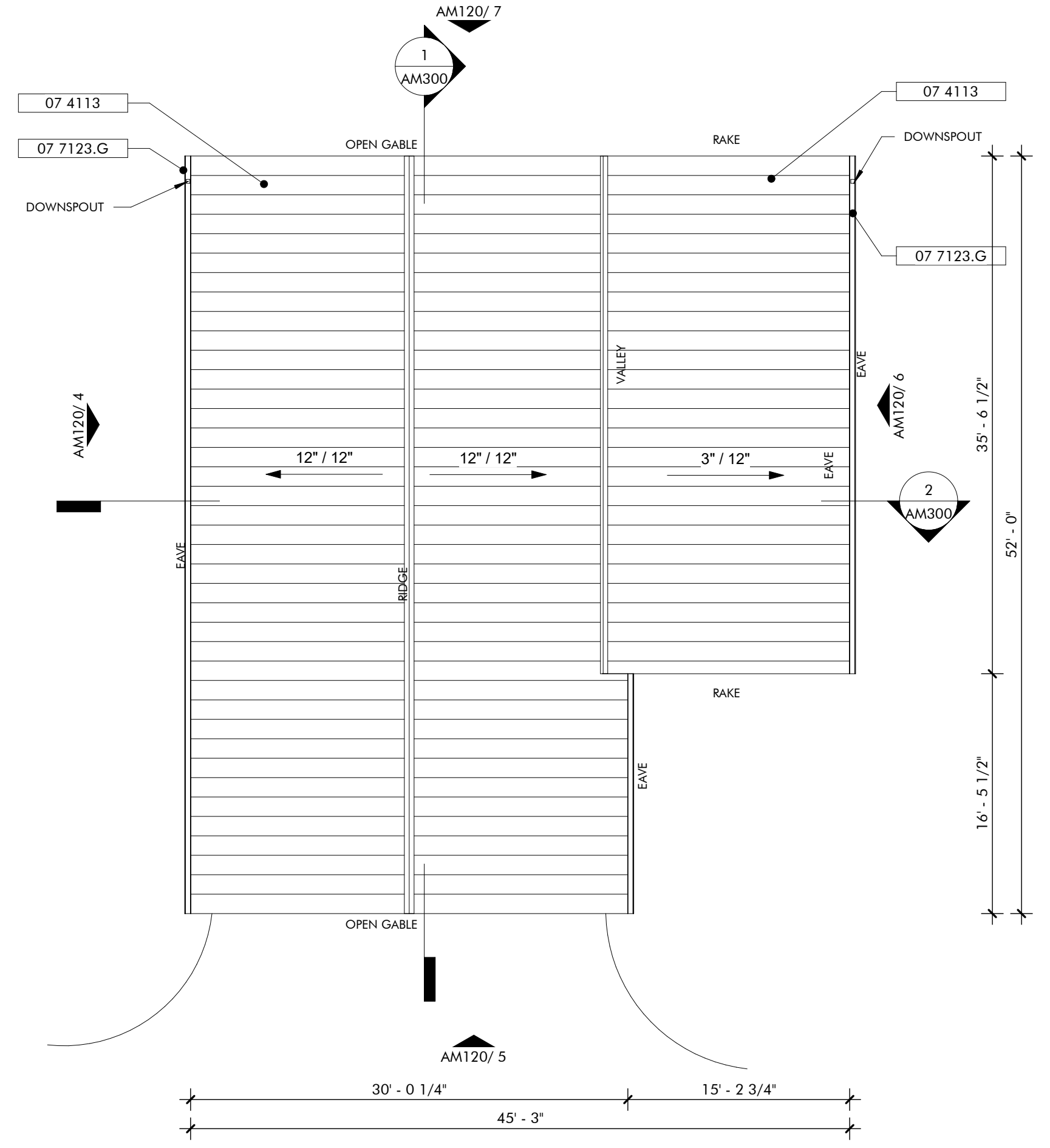
- WALL TYPE NOTES:**
- SEE PLAN FOR WALL TYPE LOCATIONS
  - SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR TYPE AND EXTENT OF ALL FINISHES
  - SEE PLAN AN SECTION DETAILS FOR WALL CONSTRUCTION



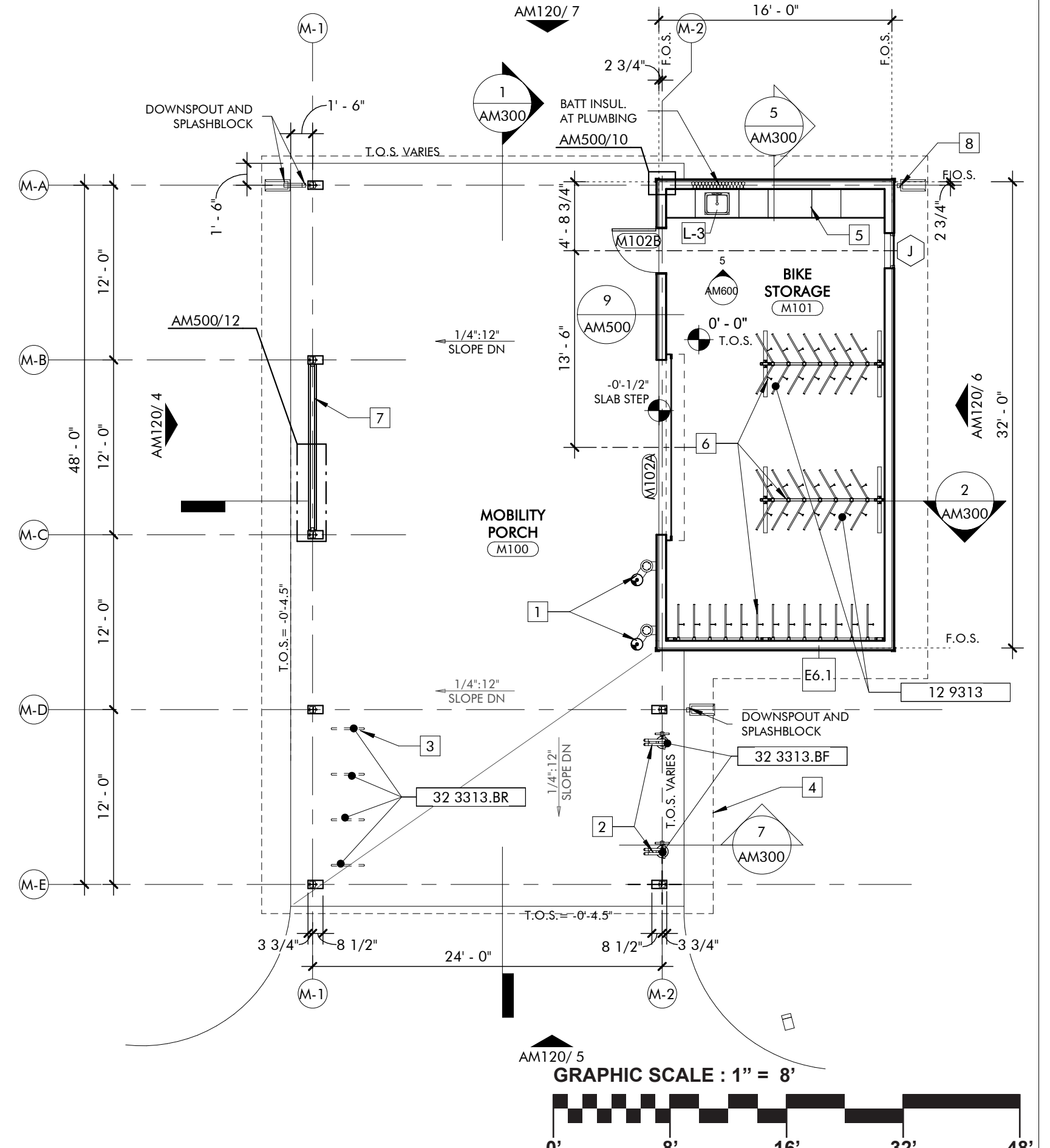
**LIGHT FIXTURE SCHEDULE - MOBILITY HUB**

MARK	QTY	MFR	MODEL	MOUNTING	NOTES
LF2	7	BEGA-US	24034	WALL	
LF8	2	FINELITE INC.	HP2-SM	SURFACE	
LF10	2	BEGA-US	33341	WALL	

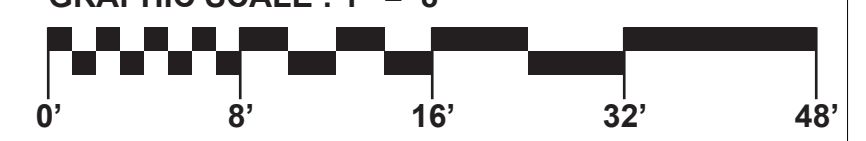
**REFLECTED CEILING PLAN**  
MOBILITY HUB  
3  
1/8" = 1'-0"



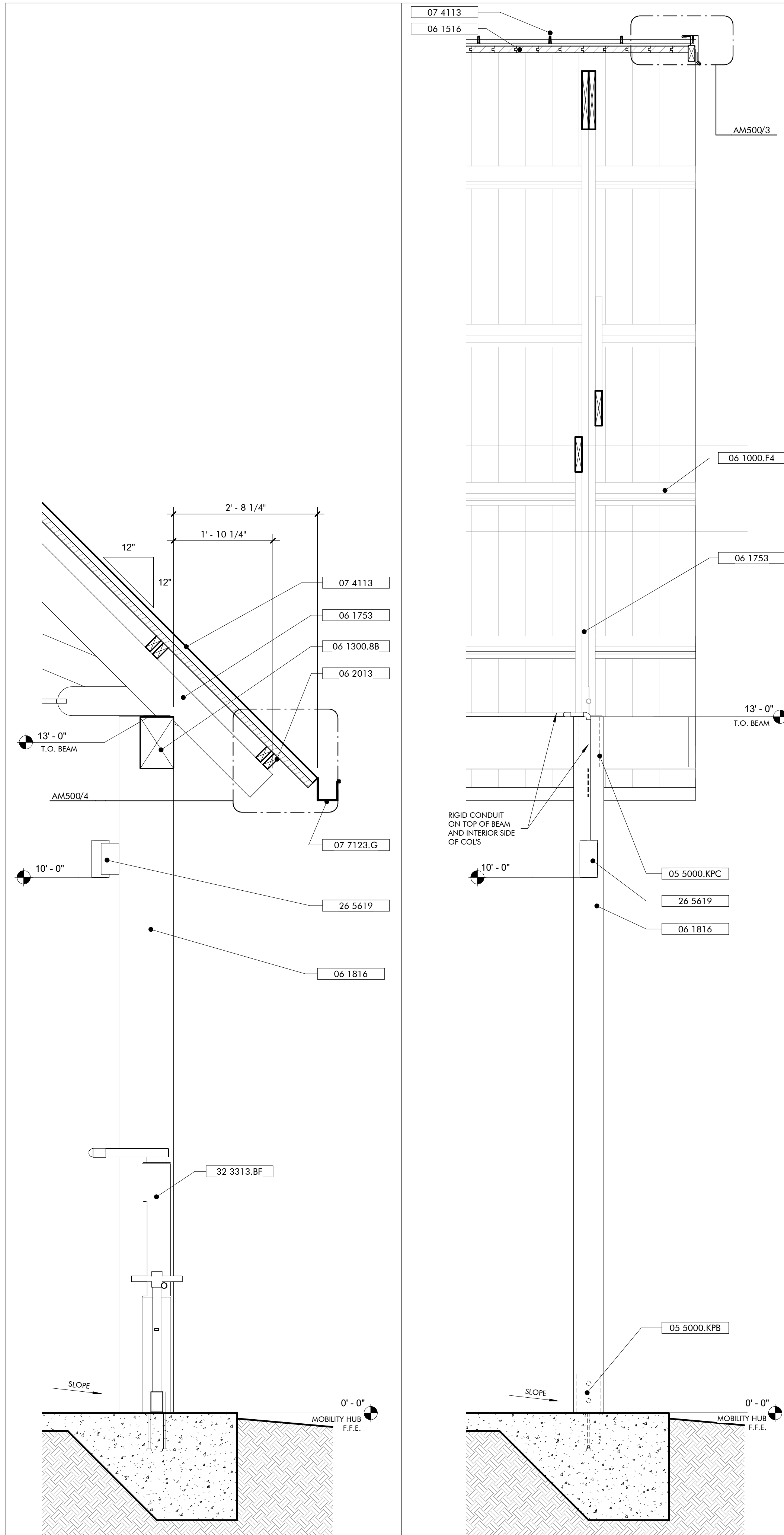
**ROOF PLAN**  
MOBILITY HUB  
2  
1/8" = 1'-0"



**FLOOR PLAN**  
MOBILITY HUB  
1  
1/8" = 1'-0"

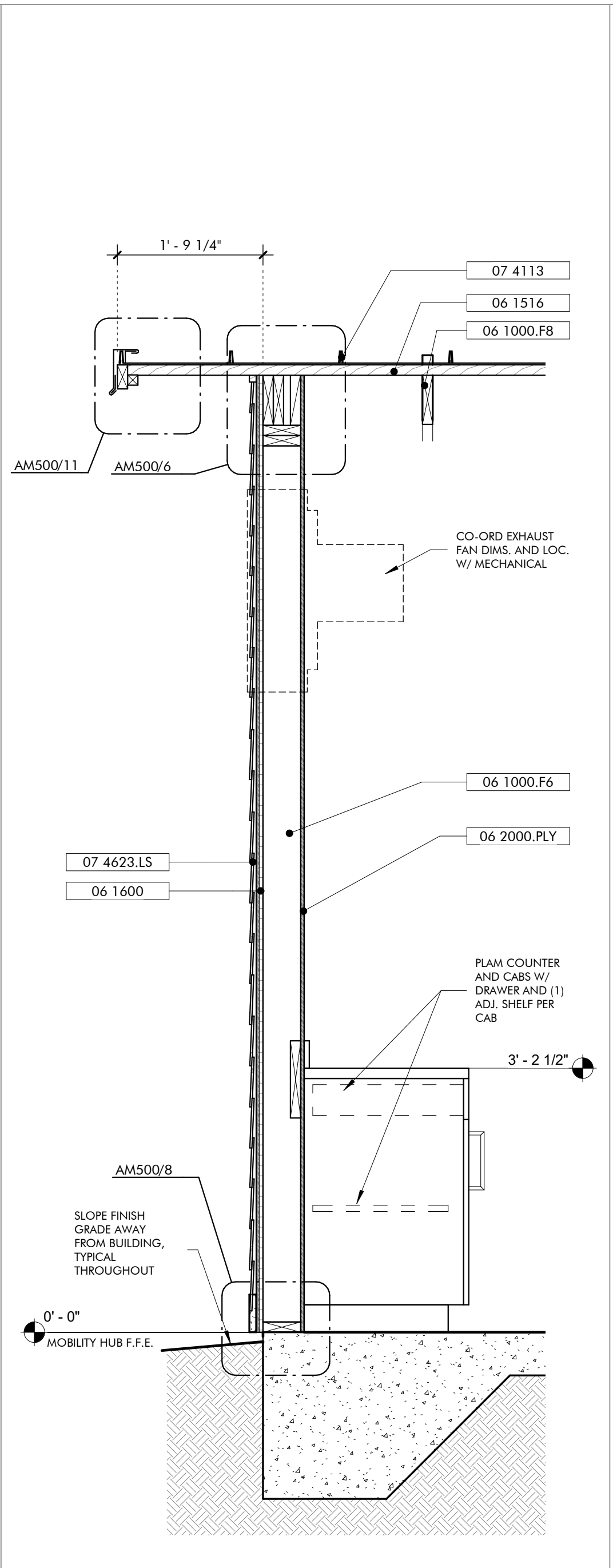


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Revision	
Date	
No.	2
DATE	JANUARY 6, 2023
JOB	
	19-028.000
PROJECT STATUS	
	CONFORMANCE SET
DATE	
	MARCH 24, 2023
SHEET NAME	
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SHEET NO.	
	AM120

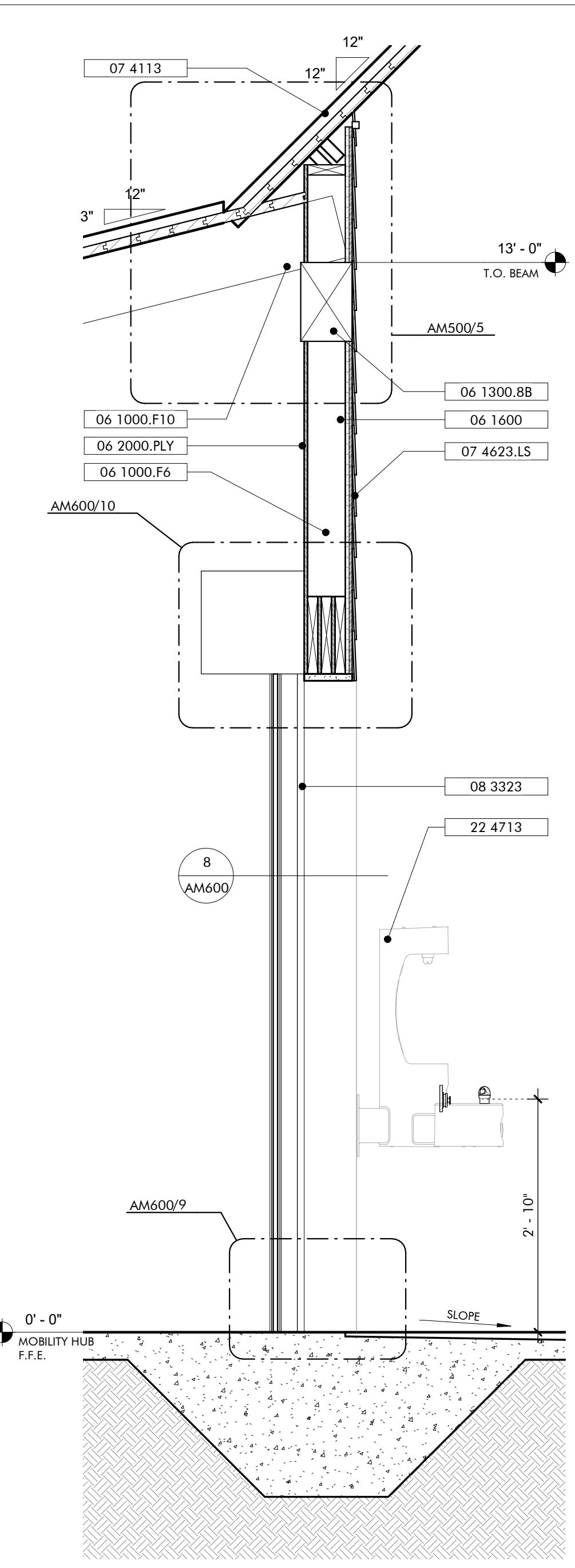


**WALL SECTION 7**  
ROOF EAVE @ DOGTROT  
3/4" = 1'-0"

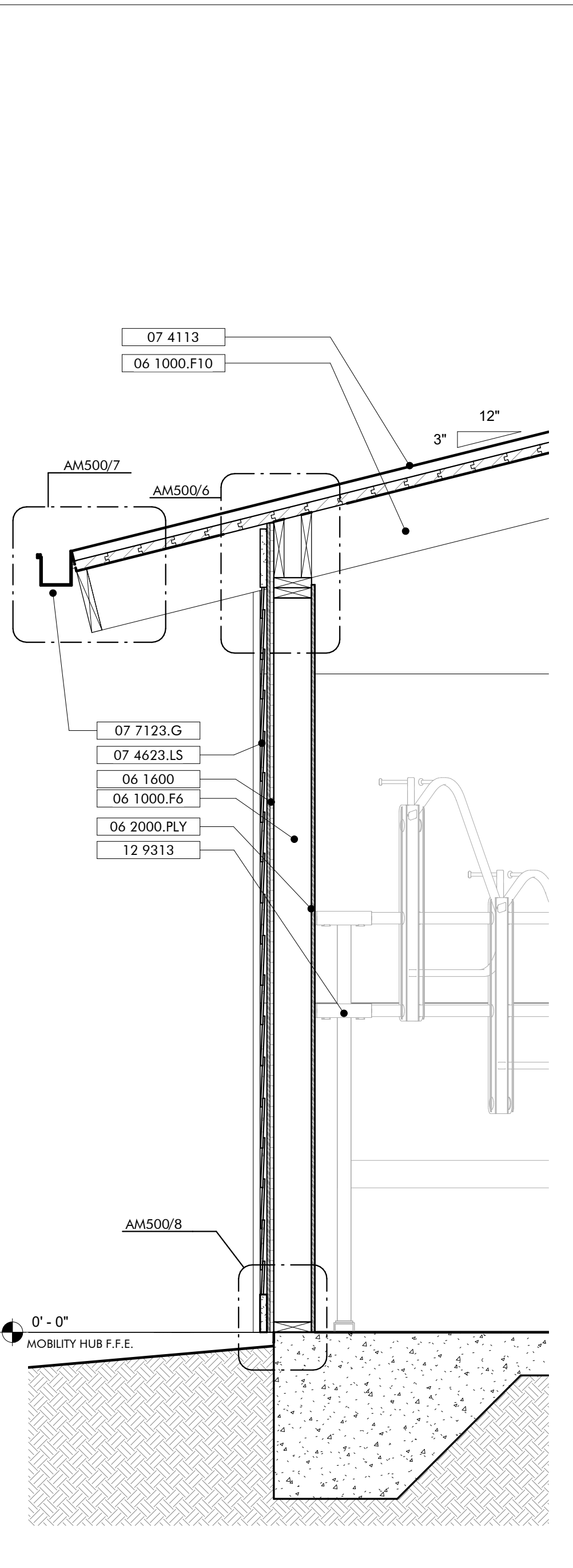
**WALL SECTION 6**  
ROOF RAKE @ DOGTROT  
3/4" = 1'-0"



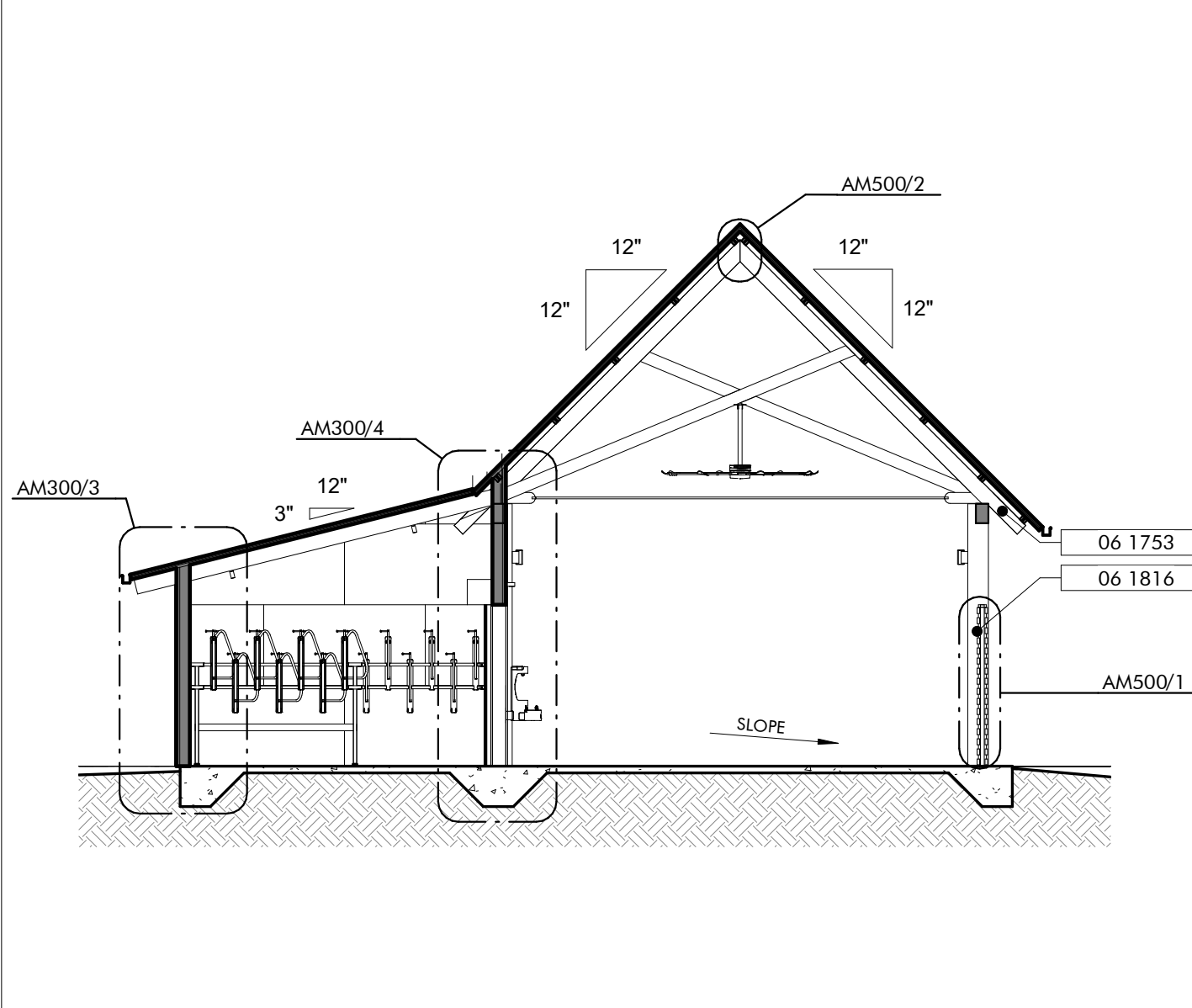
**WALL SECTION 5**  
ROOF RAKE @ WORK AREAS  
3/4" = 1'-0"



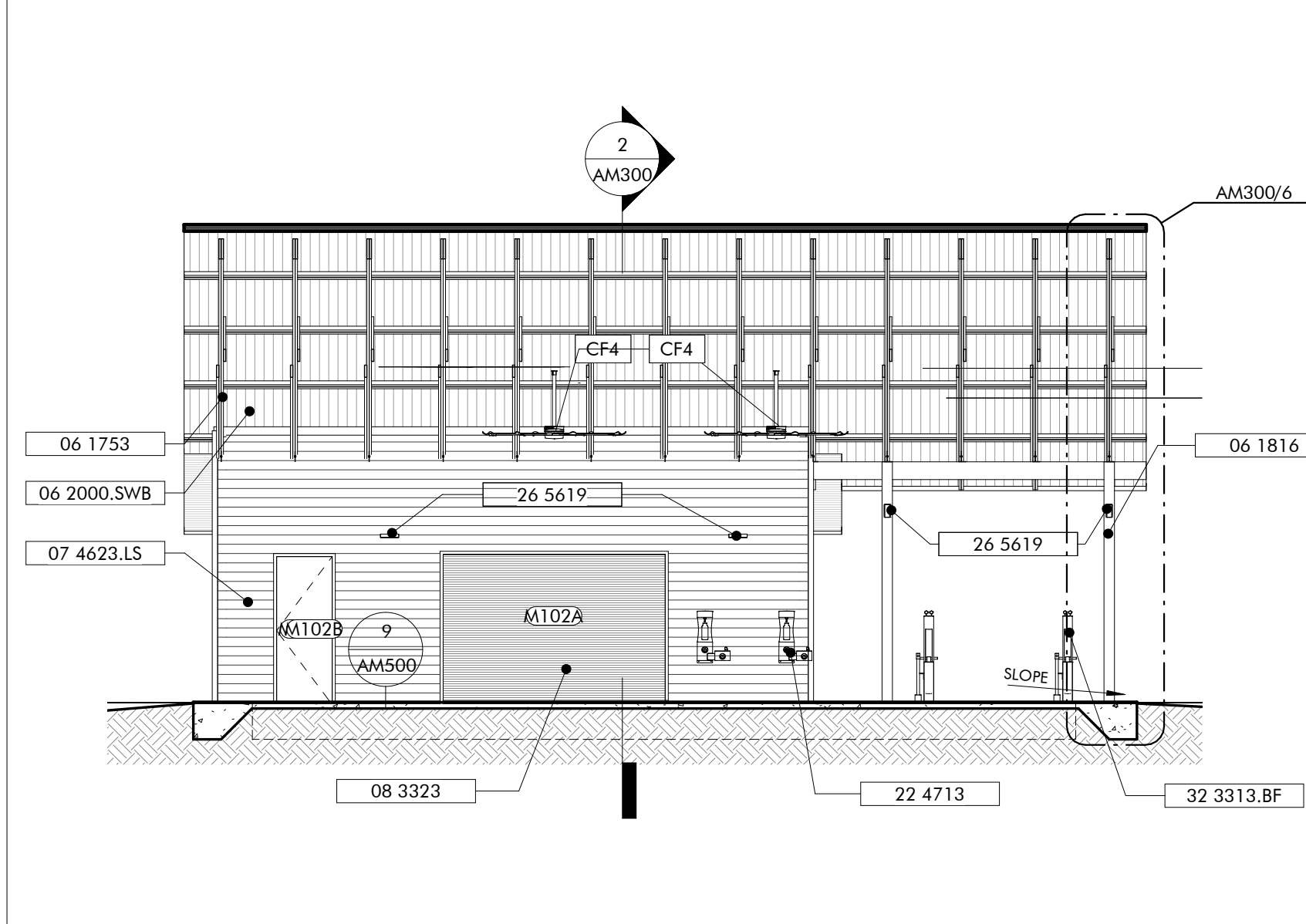
**WALL SECTION 4**  
COILING DOOR OPENING  
3/4" = 1'-0"



**WALL SECTION 3**  
ROOF EAVE @ WORK AREAS  
3/4" = 1'-0"



**BUILDING SECTION 2**  
MOBILITY HUB - WORK AREAS  
1/8" = 1'-0"



**BUILDING SECTION 1**  
MOBILITY HUB - DOGTROT  
1/8" = 1'-0"

- KEYNOTES**
- 05 5000.KPB Knife Plate Base Plate Connection - See Structural
  - 05 5000.KPC Knife Plate Column Connection - See Structural
  - 06 1000.F4 2x4 Framing
  - 06 1000.F6 2x6 Framing
  - 06 1000.F8 2x8 Framing
  - 06 1000.F10 2x10 Framing
  - 06 1300.8B 8x12 Beam
  - 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.SWB Stained Wood Boards
  - 06 2013 Exterior Finish Carpentry
  - 07 4113 Metal Roof Panels
  - 07 4623.LS Engineered Wood Lap Siding
  - 07 7123.G Manufactured Gutters
  - 08 3323 Overhead Coiling Doors
  - 12 9313 Bicycle Racks
  - 22 4713 Drinking Fountains
  - 26 5619 LED Exterior Lighting
  - 32 3313.BF Bicycle Repair Station

GENERAL NOTES

SHEET SPECIFIC NOTES

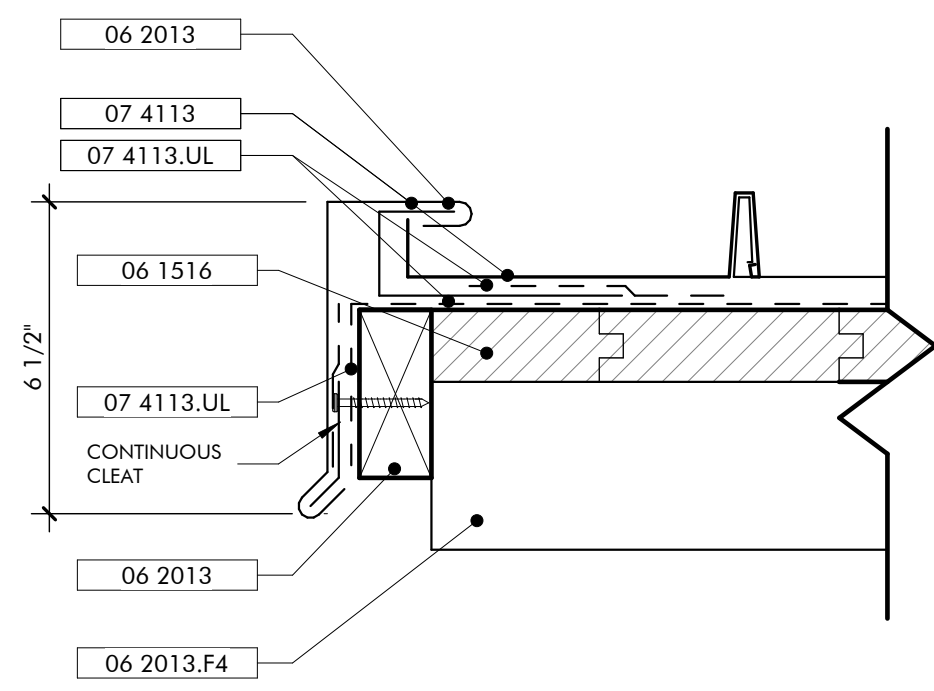


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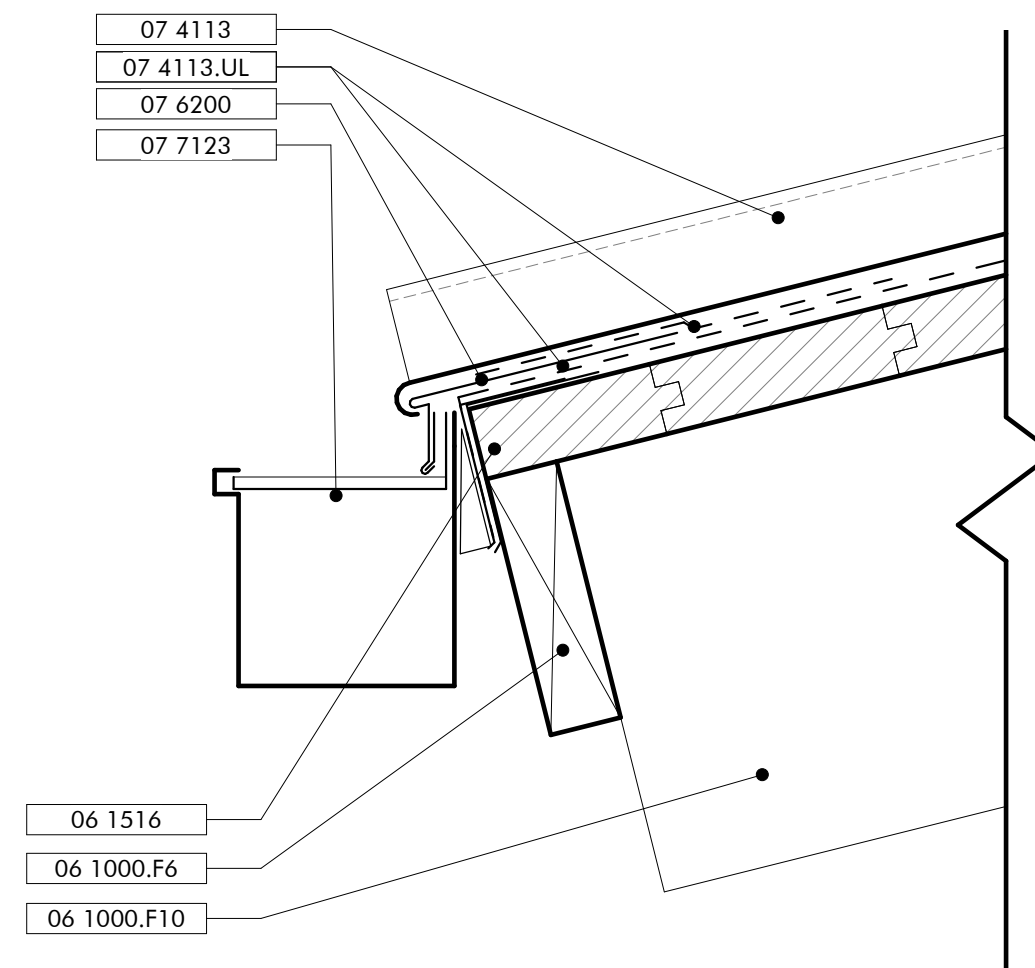
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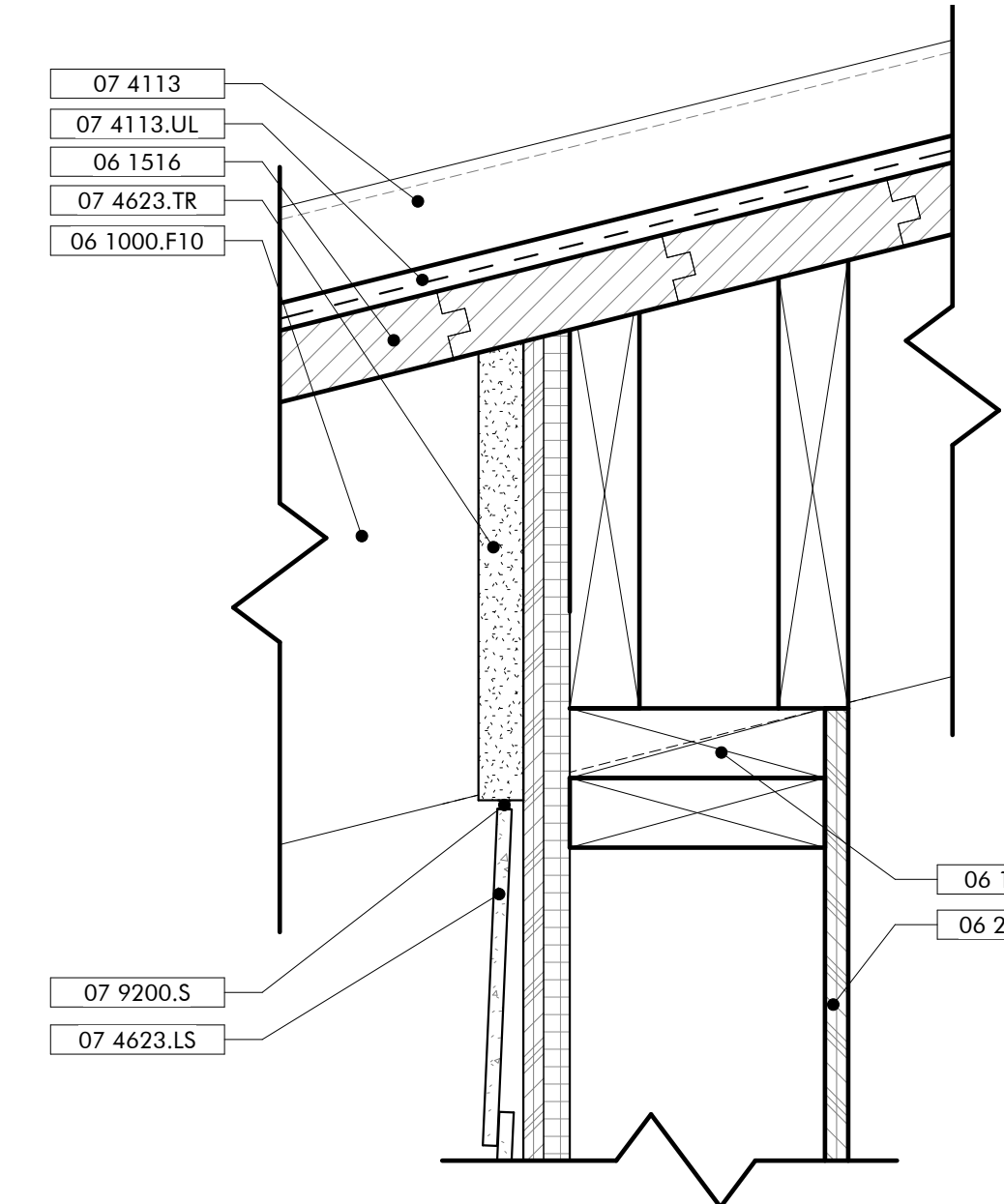
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Date	JANUARY 6, 2023
No.	2
Job	19-028.000
Project Status	CONFORMANCE SET
Date	MARCH 24, 2023
Sheet Name	BUILDING & WALL SECTIONS
Sheet No.	AM300



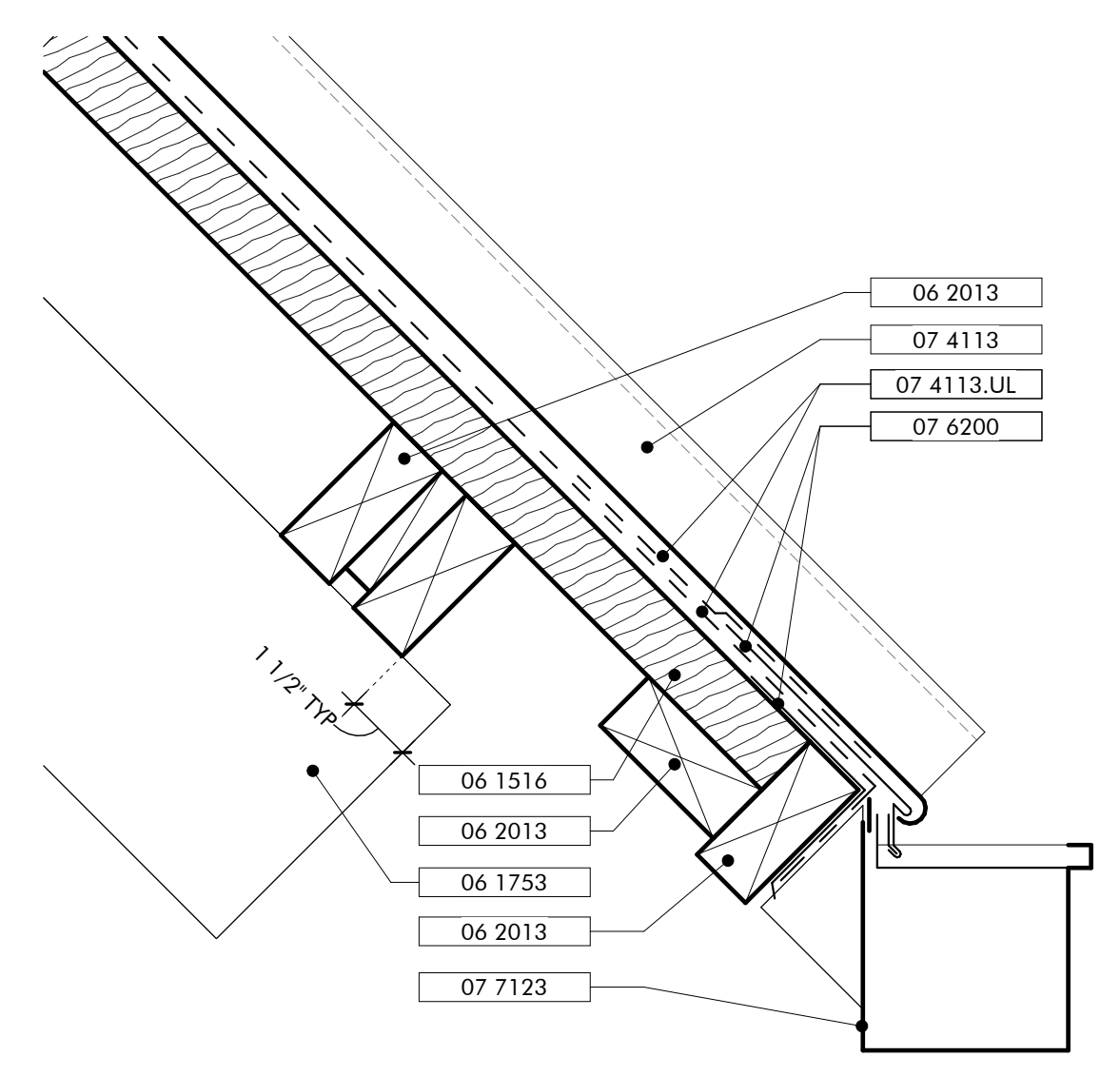
**SECTION DETAIL 11**  
SHED ROOF RAKE  
3" = 1'-0"



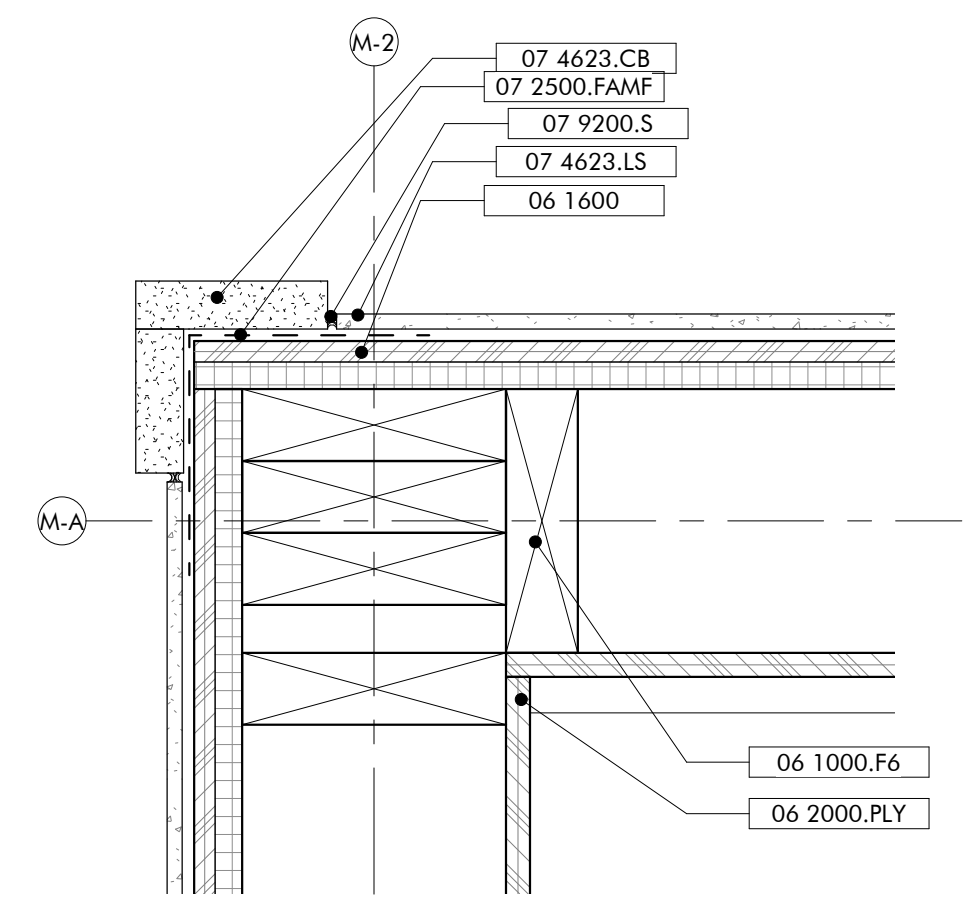
**SECTION DETAIL 7**  
SHED ROOF EAVE  
3" = 1'-0"



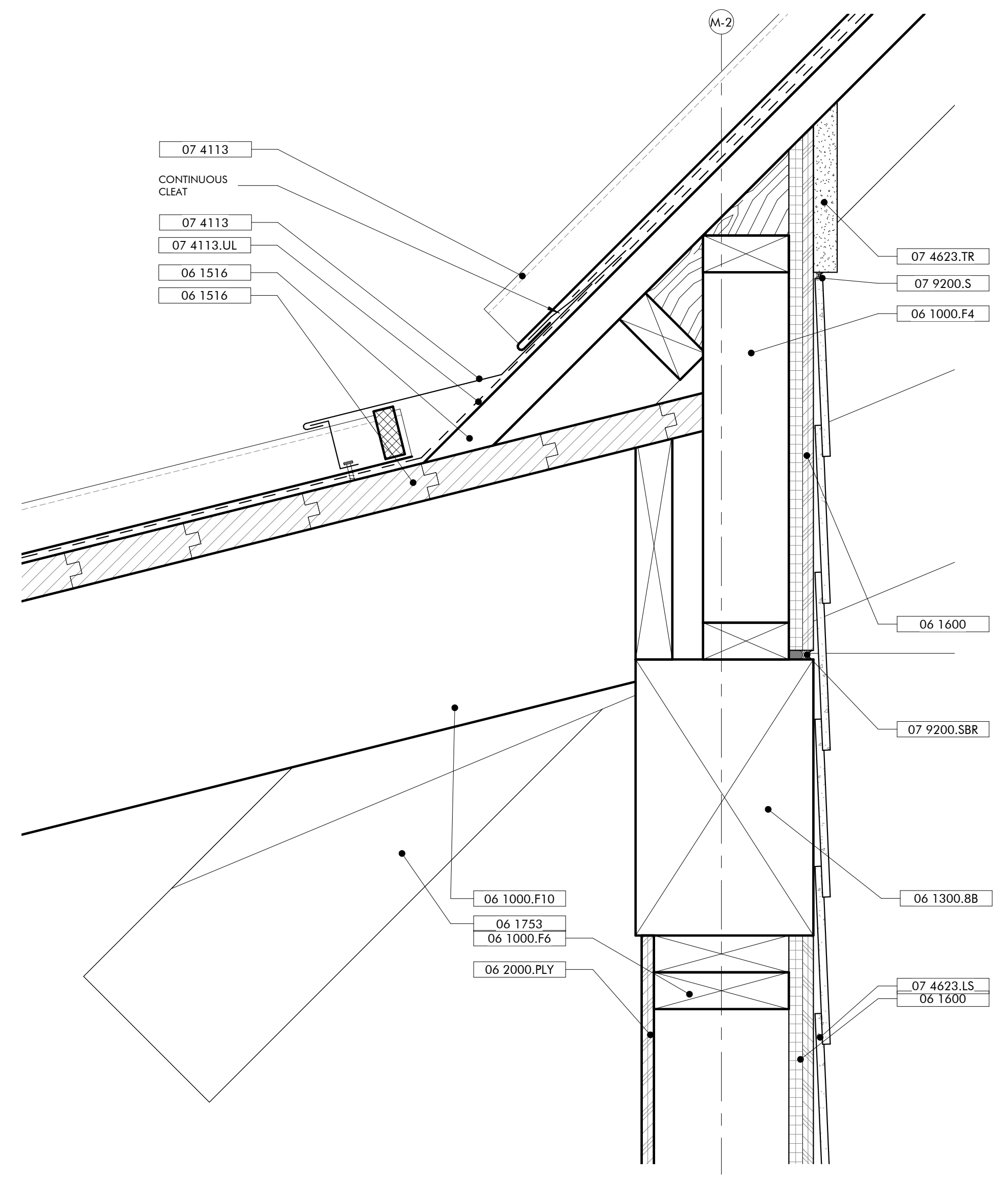
**SECTION DETAIL 6**  
SHED WALL T.O. PLATE  
3" = 1'-0"



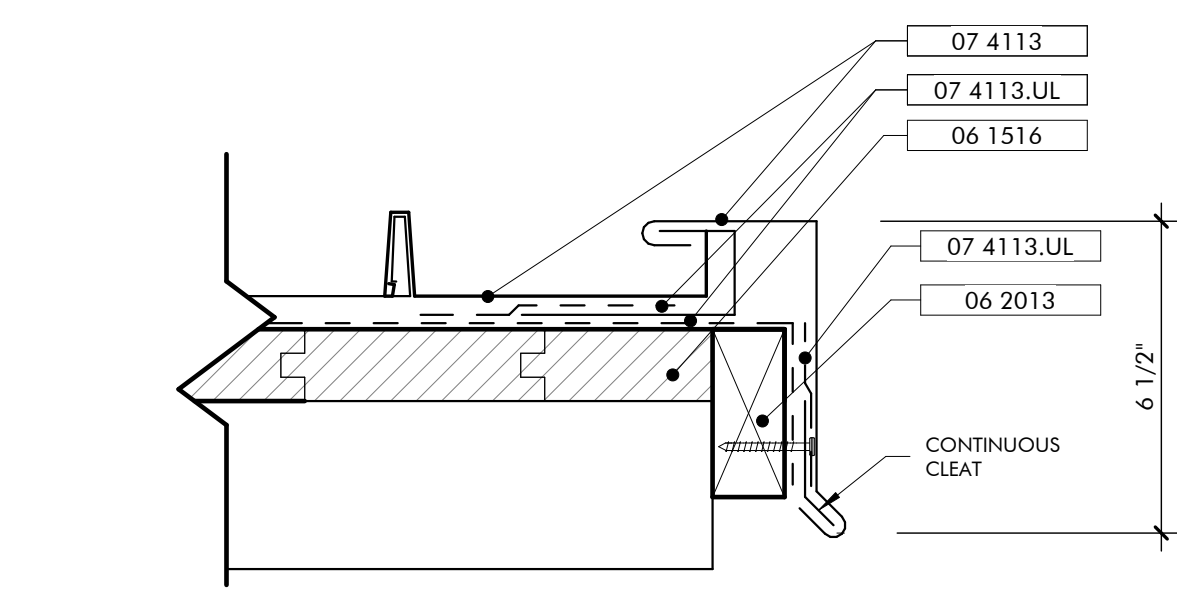
**SECTION DETAIL 4**  
ROOF EAVE  
3" = 1'-0"



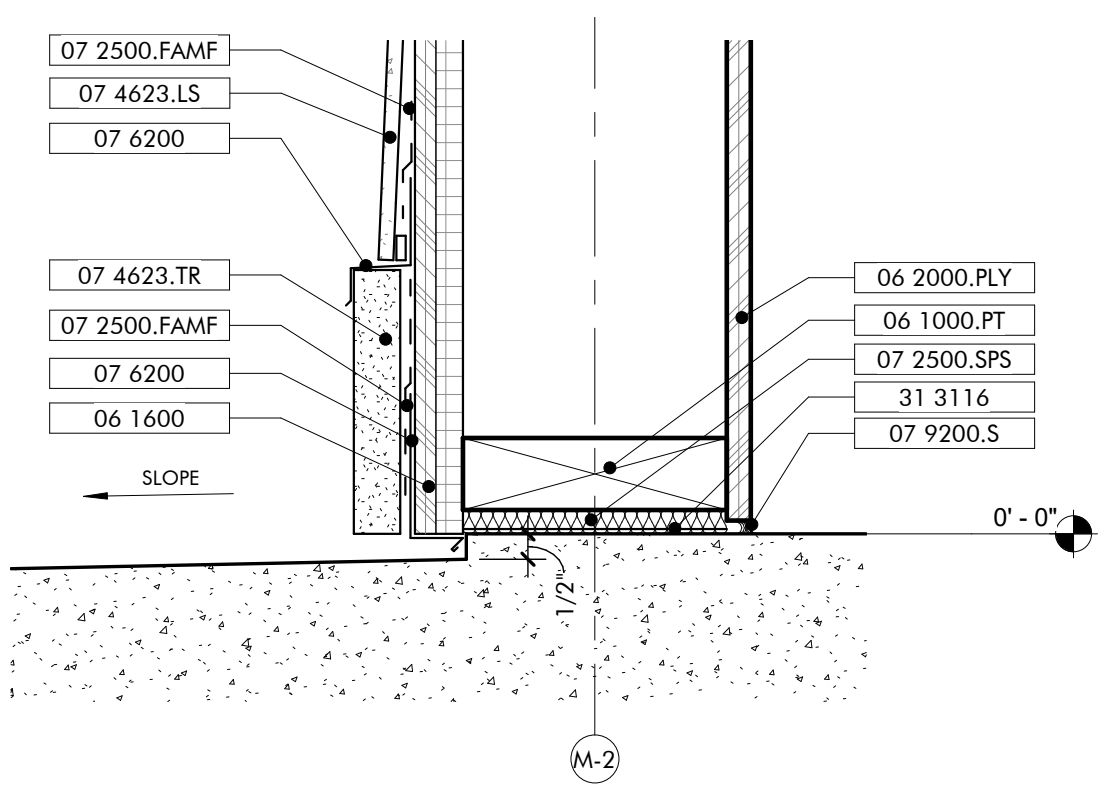
**SECTION DETAIL 10**  
TYP OUTSIDE CORNER  
3" = 1'-0"



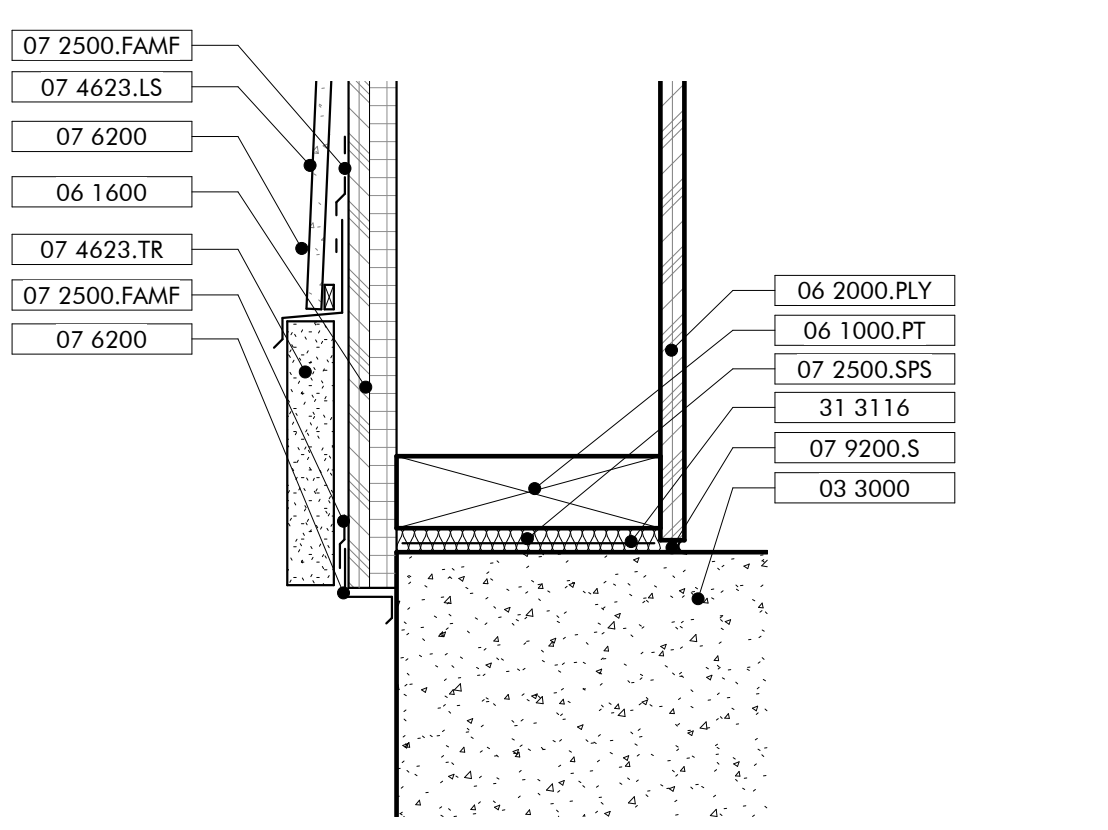
**SECTION DETAIL 5**  
ROOF TRANSITION  
3" = 1'-0"



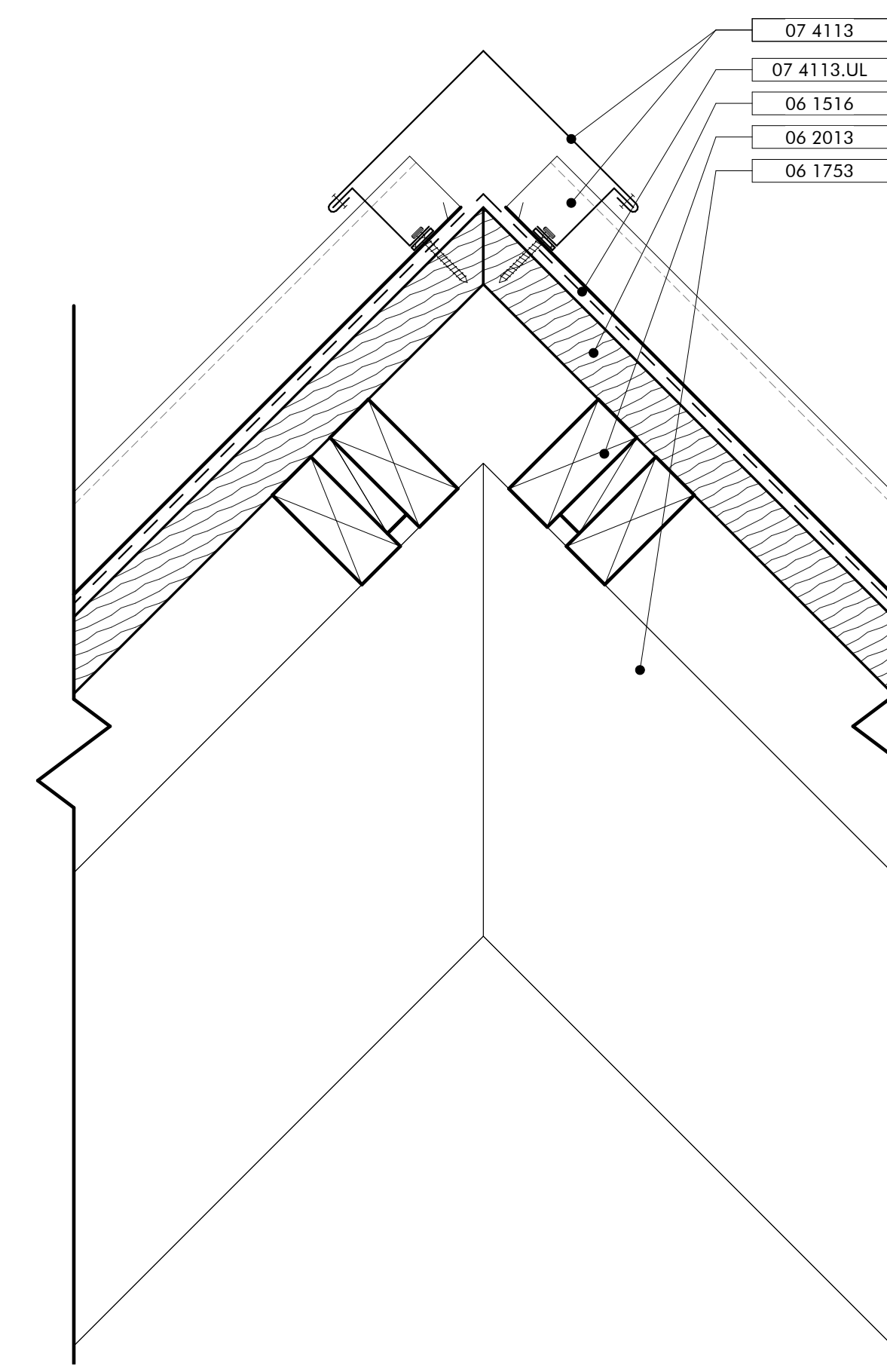
**SECTION DETAIL 3**  
ROOF RAKE  
3" = 1'-0"



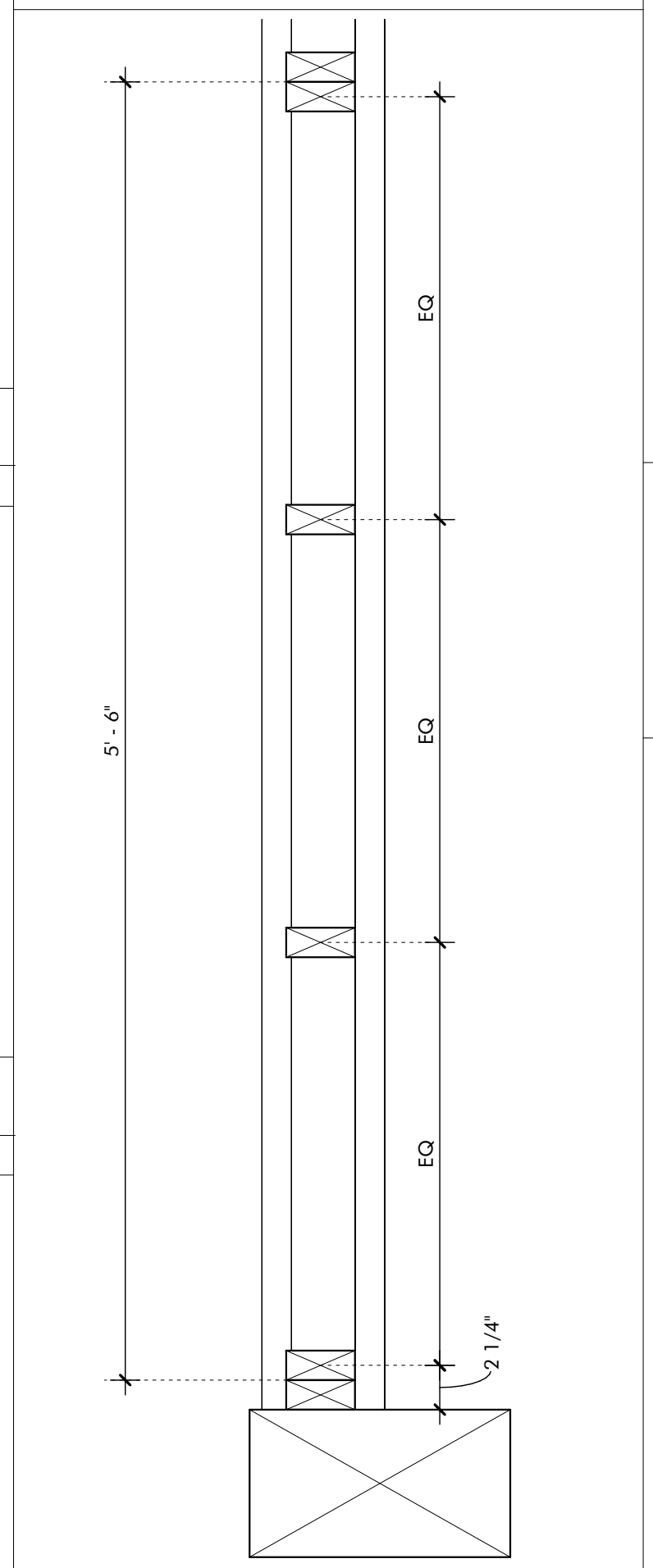
**SECTION DETAIL 9**  
STUD WALL AT SLAB  
3" = 1'-0"



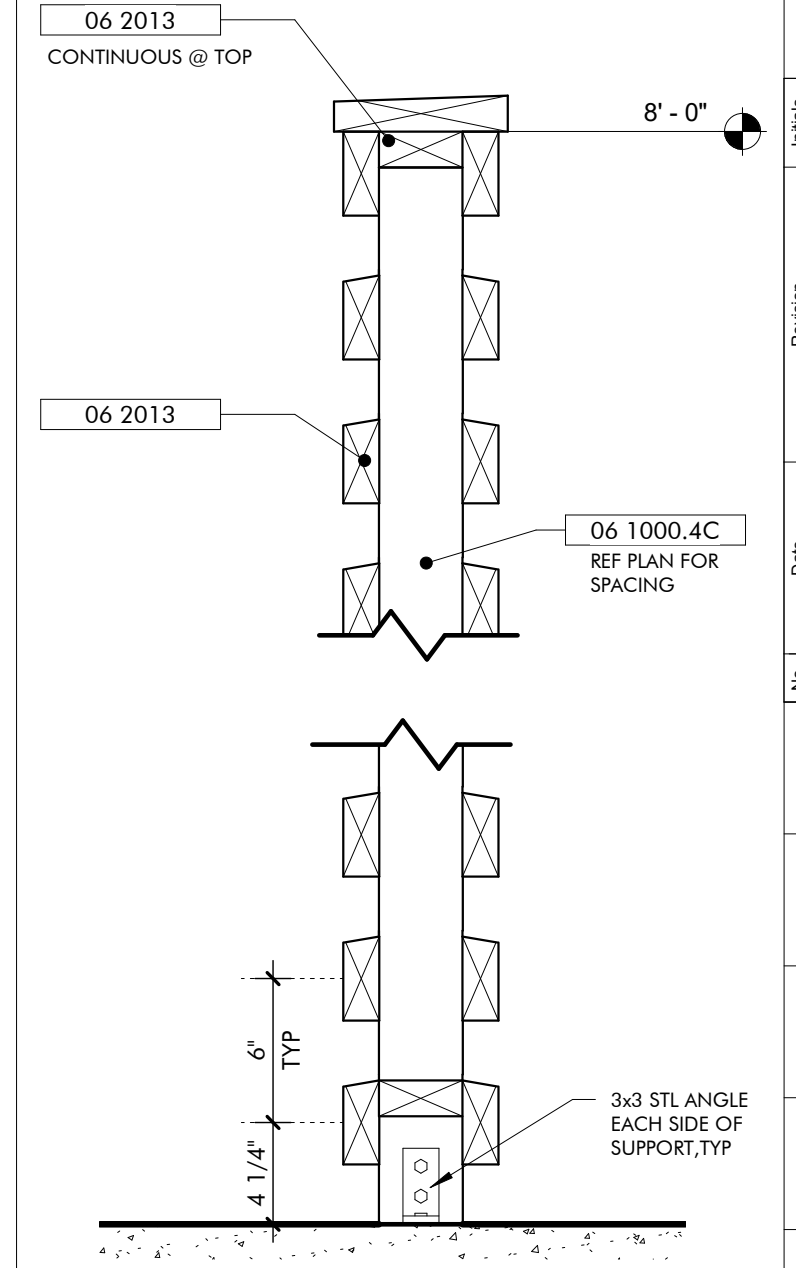
**SECTION DETAIL 8**  
STUD WALL AT SLAB EDGE  
3" = 1'-0"



**SECTION DETAIL 2**  
ROOF RIDGE  
3" = 1'-0"



**PLAN DETAIL 12**  
MOBILITY HUB  
1 1/2" = 1'-0"



**SECTION DETAIL 1**  
SCREEN  
1 1/2" = 1'-0"

- KEYNOTES**
- 03 3000 Cast-in-Place Concrete - See Structural for reinforcement
  - 06 1000.4C 4x4 Column
  - 06 1000.F4 2x4 Framing
  - 06 1000.F6 2x6 Framing
  - 06 1000.F10 2x10 Framing
  - 06 1000.PT Pressure Treated Sill Plate
  - 06 1300.BB 8x12 Beam
  - 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.F4 2x4 Wood Boards
  - 07 2500.FAMF Fluid Applied Membrane Flashing
  - 07 2500.SPS Sill Plate Sealer
  - 07 4113 Metal Roof Panels
  - 07 4113.UL 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 Manufactured Gutters and Downspouts
  - 07 9200.S Sealant
  - 07 9200.SBR Sealant and Backer Rod
  - 31 3116 Termite Control



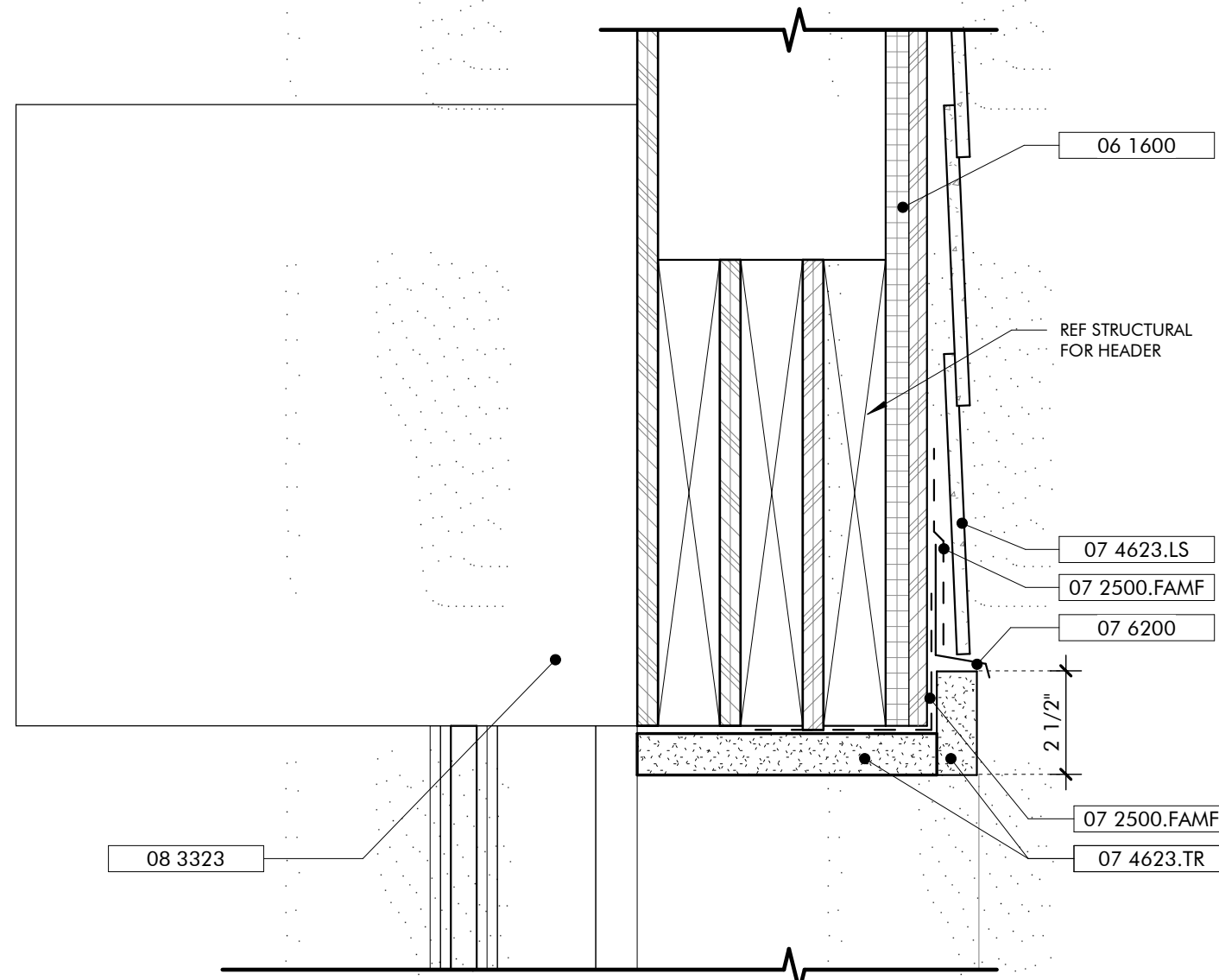
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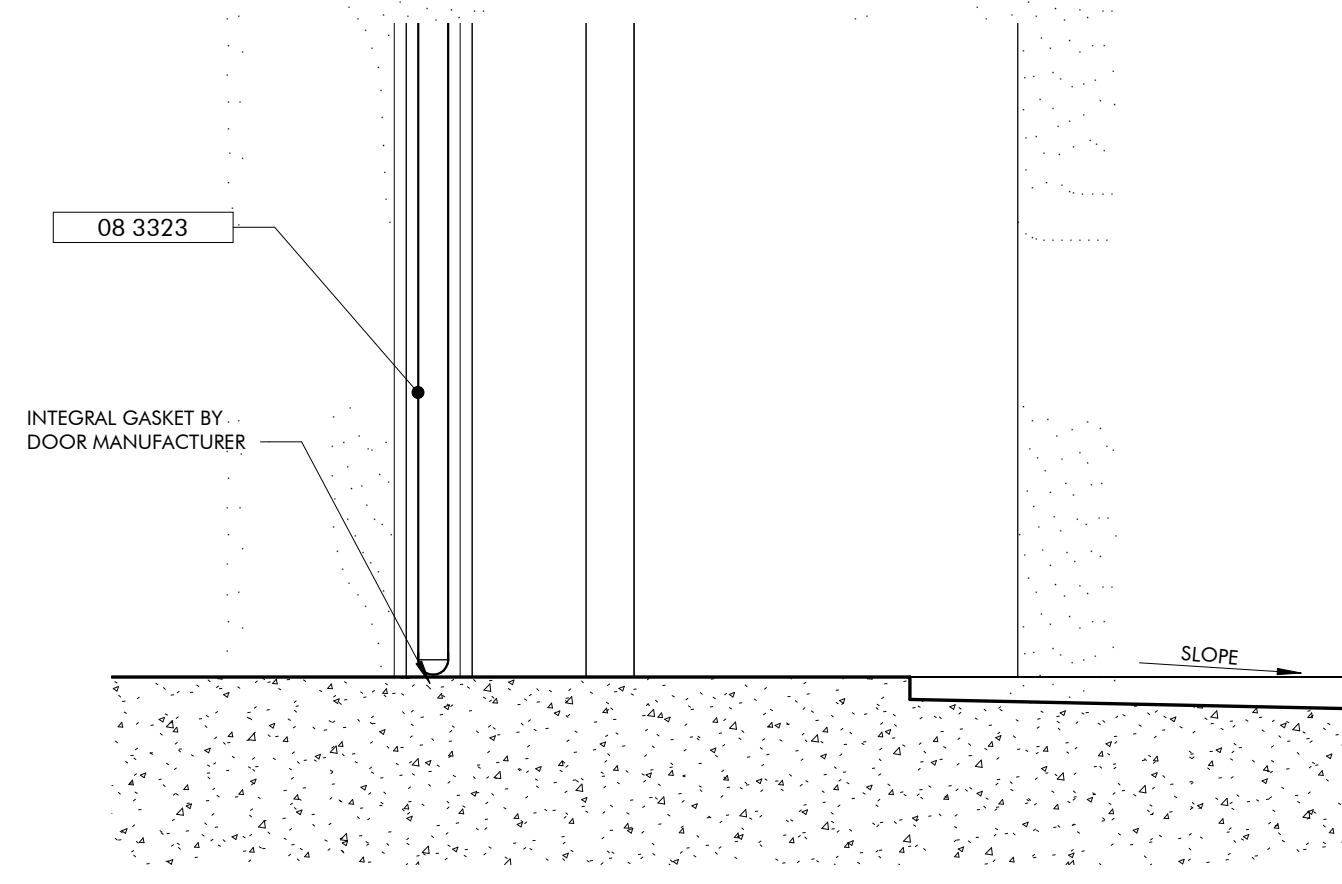
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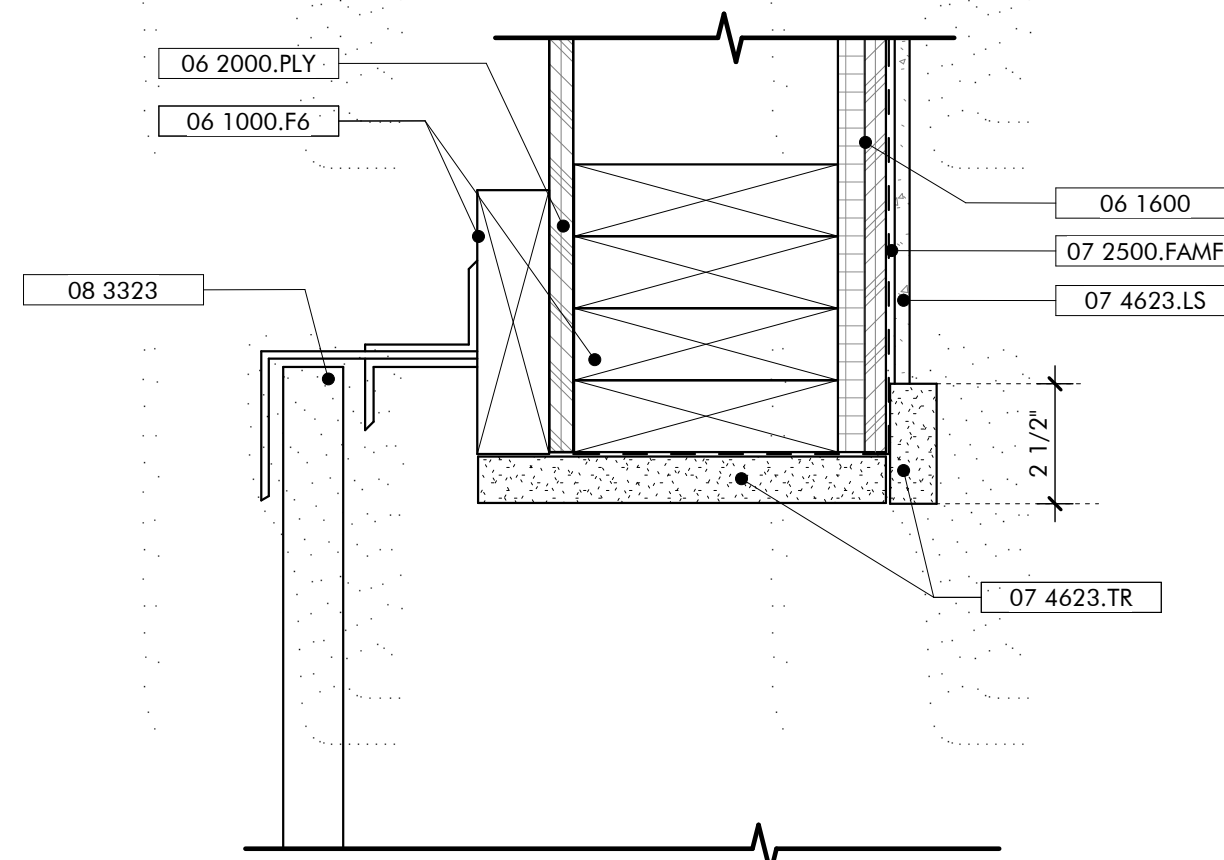
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Revision		Drawn By	END SET
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Project Status	CONFORMANCE SET		
Date	MARCH 24, 2023		
Sheet Name	EXTERIOR DETAILS		
Sheet No.	AM500		



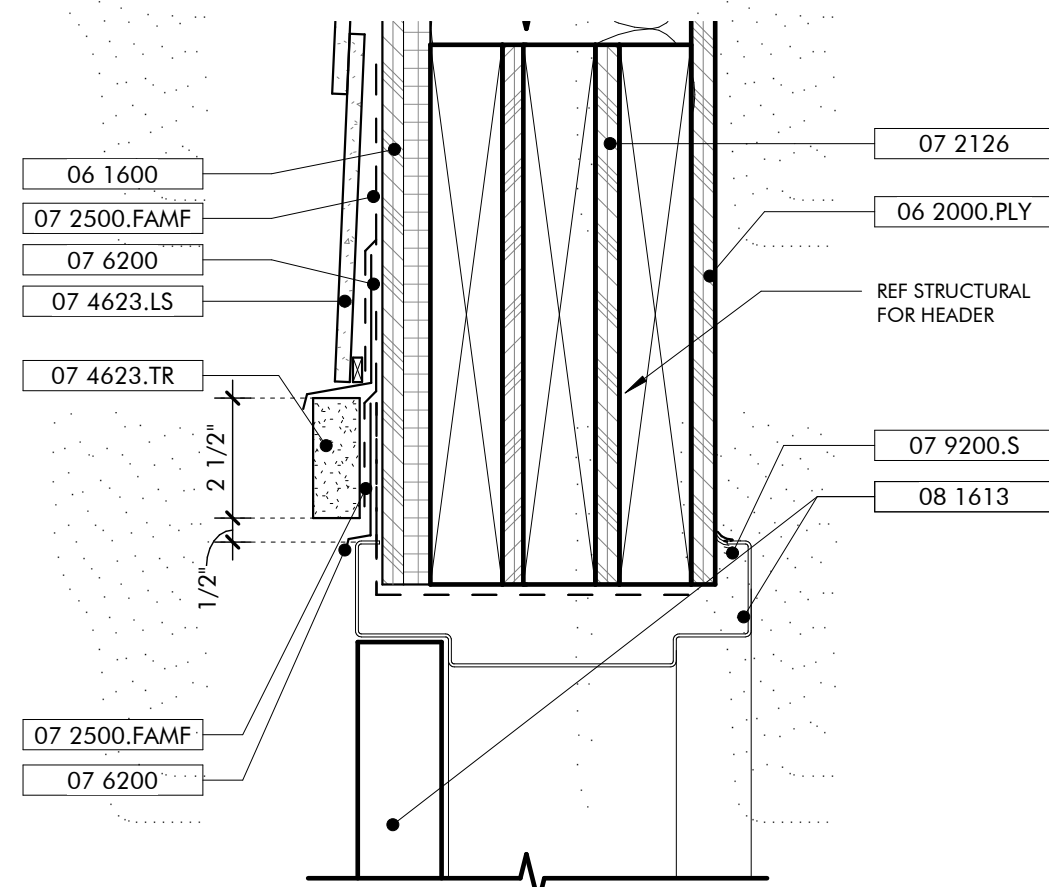
**HEAD DETAIL**  
**COILING DOOR OPENING** 10  
3" = 1'-0"



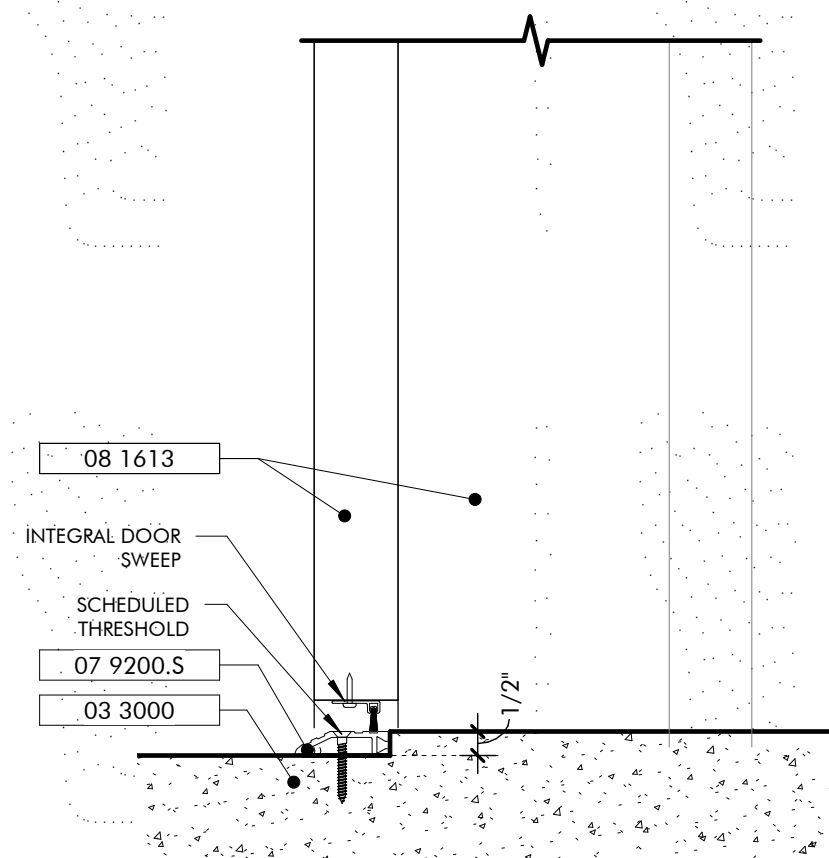
**SILL DETAIL**  
**COILING DOOR OPENING** 9  
3" = 1'-0"



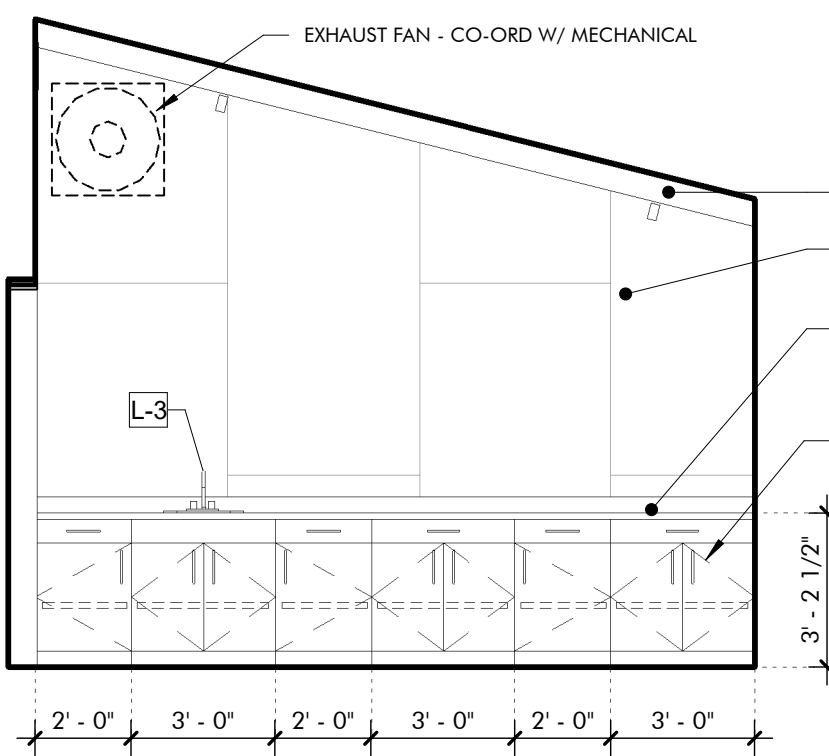
**JAMB DETAIL**  
**COILING DOOR OPENING** 8  
3" = 1'-0"



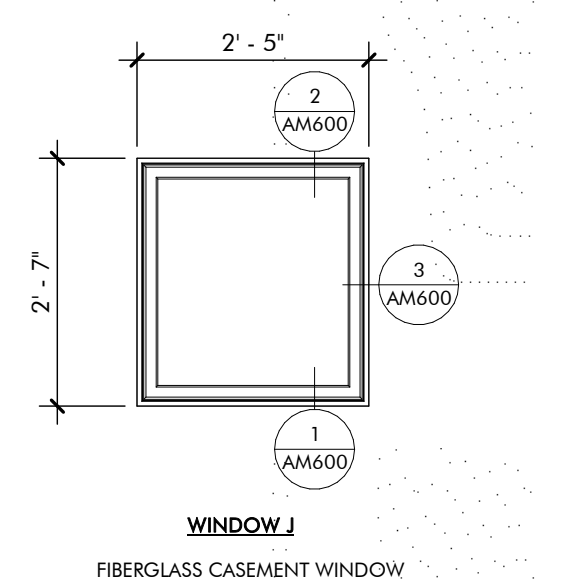
**HEAD DETAIL**  
**EXT HOLLOW METAL DOOR** 7  
3" = 1'-0"



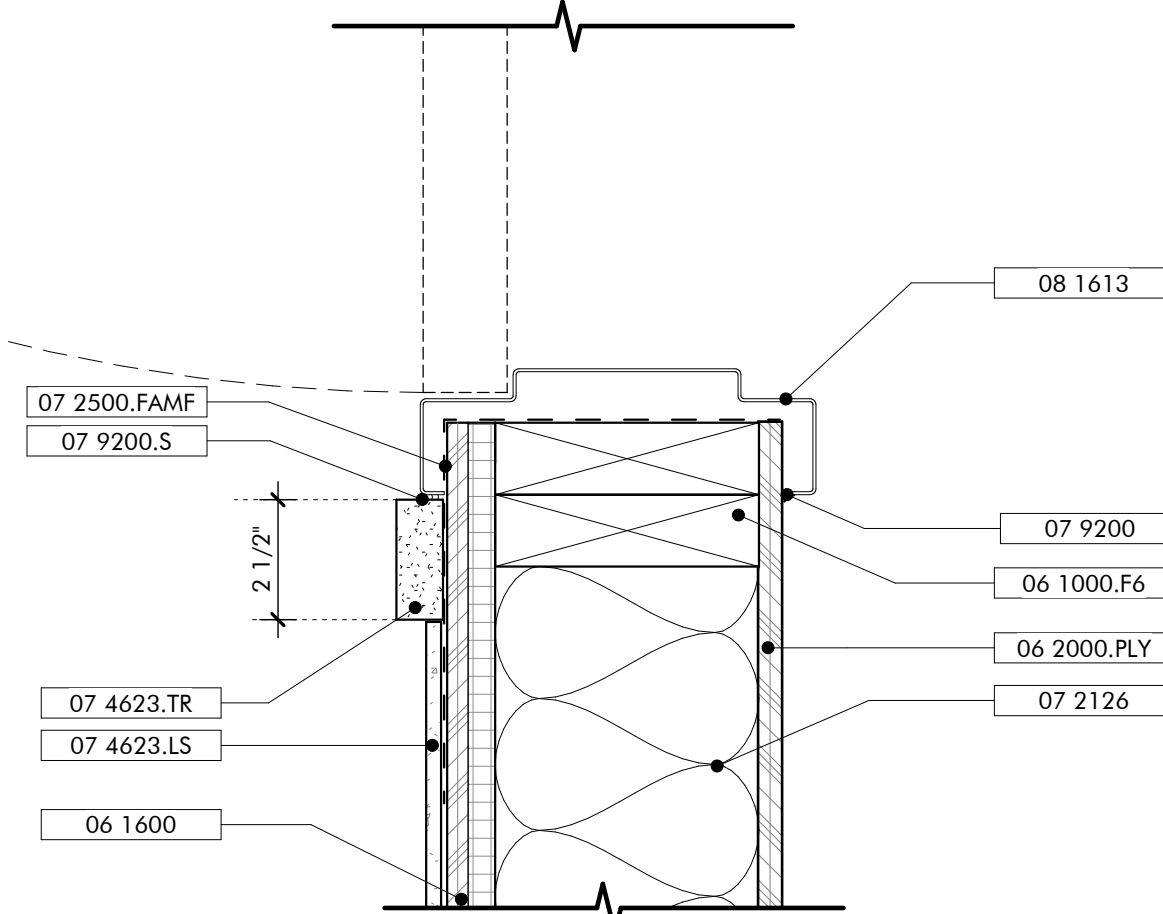
**SILL DETAIL**  
**EXT HOLLOW METAL DOOR** 6  
3" = 1'-0"



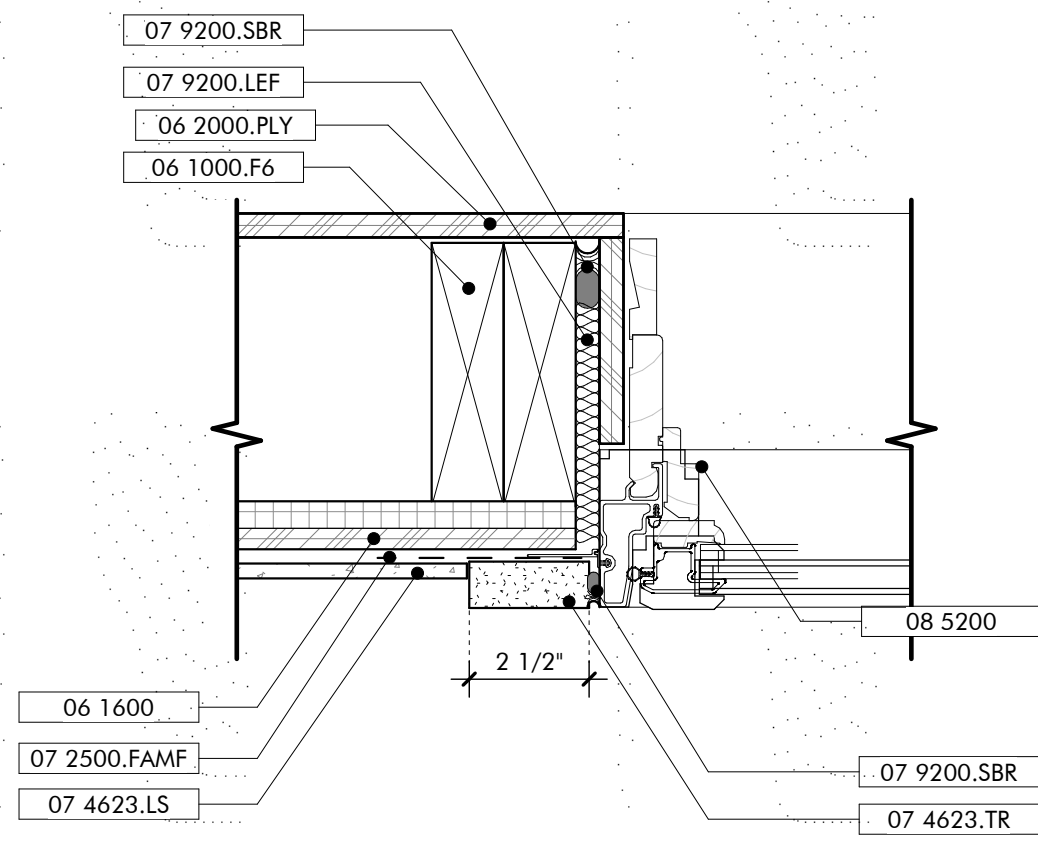
**INTERIOR ELEVATION**  
**BIKE WORKSTATION** 5  
1/4" = 1'-0"



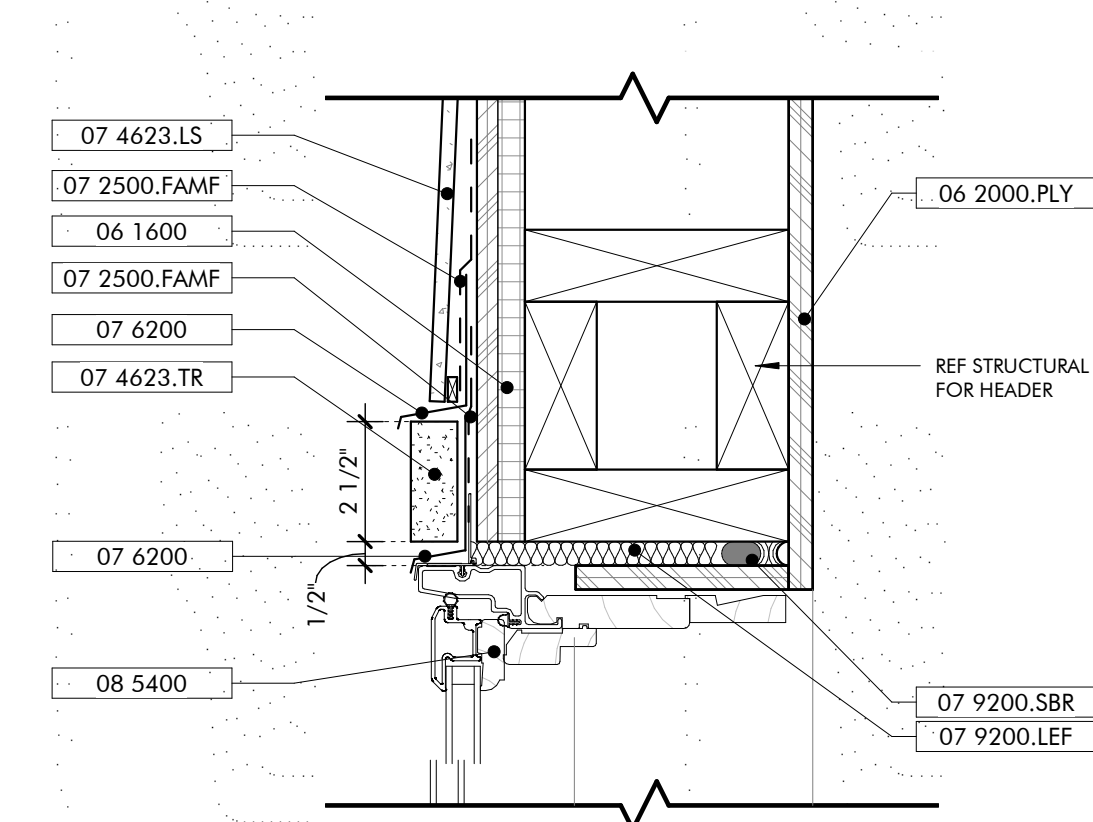
**WINDOW LEGEND**  
**MOBILITY HUB** 1/2" = 1'-0"



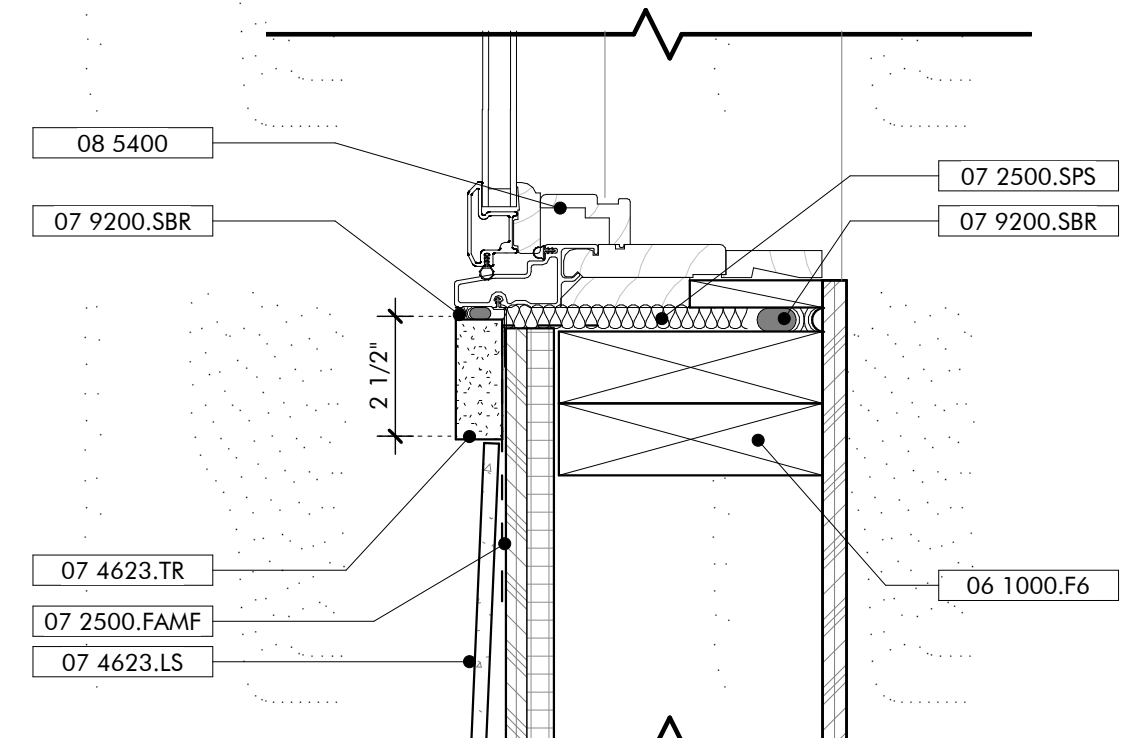
**JAMB DETAIL**  
**EXT HOLLOW METAL DOOR** 4  
3" = 1'-0"



**JAMB DETAIL**  
**TYP WINDOW** 3  
3" = 1'-0"



**HEAD DETAIL**  
**TYP WINDOW** 2  
3" = 1'-0"



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

**HARDWARE SETS SCHEDULE**

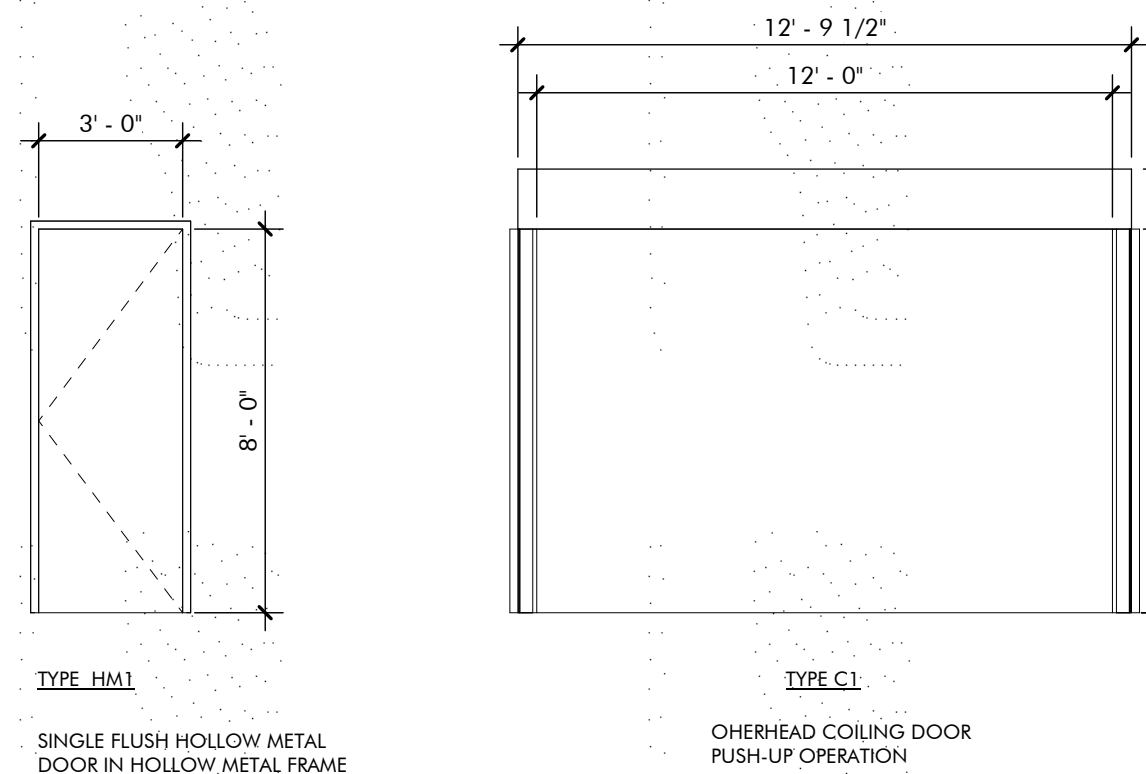
QTY	ITEM	REMARKS
<b>ENTRY</b>		
1	CLOSER+ CUSH, HOLD OPEN	
4	HINGES BY DOOR MFG	BALL BEARING
1	PULL BAR LOOP	
1	RIM EXT DEVICE W/ LOCK CYLINDER ENTRY TRIM	HEX DOGGING, BACK OF BAR FINISHED
THRESHOLD BY DOOR MFG		
WEATHERSTRIPPING BY DOOR MFG		
<b>ENTRY-2</b>		
1	ASTRAGAL	BRUSH TYPE
2	CLOSER+ CUSH, HOLD OPEN	
8	HINGES BY DOOR MFG	BALL BEARING
2	PULL BAR LOOP	
THRESHOLD BY DOOR MFG		
2	VERTICAL ROD EXIT DEVICE W/ LOCK CYLINDER	CONCEALED VERTICAL RODS TOP & BOTTOM, HEX DOGGINGS, BACK OF BAR FINISHED
ENTRY TRIM		
WEATHERSTRIPPING BY DOOR MFG		
<b>ENTRY-3</b>		
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	
WEATHERSTRIPPING		
<b>OFFICE</b>		
1	CLOSER+ CUSH, HOLD OPEN	
4	HINGES	BALL BEARING
1	LEVER LOCKSET	ENTRY OR OFFICE FUNCTION
3	SILENCERS	
1	WALL STOP	
<b>PASSAGE</b>		
2	BAR LOOPS	BACK-TO-BACK
1	CLOSER+ CUSH, HOLD OPEN	
4	HINGES	BALL BEARING
3	SILENCERS	
1	WALL STOP	
<b>PRIVACY</b>		
1	CLOSER+ CUSH	
4	HINGES	BALL BEARING
1	LEVER LOCKSET	PRIVACY OR BATH FUNCTION
3	SILENCERS	
1	WALL STOP	

**ROOM FINISH SCHEDULE - MOBILITY HUB**

ROOM NO	ROOM NAME	FLOOR FINISH	BASE	WALLS				CEILING	REMARKS
				WEST	NORTH	EAST	SOUTH		
M100	MOBILITY PORCH	BFC	N/A	N/A	N/A	N/A	N/A	EXP	SEE SPECS FOR WOOD FINISHES
M101	BIKE STORAGE	BFC	WD	PLY	PLY	PLY	PLY	EXP	SEE SPECS FOR WOOD FINISHES

**DOOR SCHEDULE - MOBILITY HUB**

DOOR NO.	TYPE	HEIGHT	WIDTH	INT/EXT	FRAME	DOOR MTRL	HRDWR SET	DETAILS			ADD COMMENTS
								HEAD	SILL	JAMB	
M102A	CO1	8'-0"	12'-0"	EXT	HM	HM	ENTRY-3	AM600/10	AM600/9	AM600/8	
M102B	HM1	8'-0"	3'-0"	EXT	HM	HM	ENTRY-3	AM600/7	AM600/6	AM600/4	



**DOOR LEGEND**  
**MOBILITY HUB** 1/4" = 1'-0"

**KEYNOTES**

- 03 3000 Cast-in-Place Concrete - See Structural for reinforcement
- 06 1000.F6 2x6 Framing
- 06 1000.F10 2x10 Framing
- 06 1600 Sheathing
- 06 2000.PLY Stained 3/4" Plywood
- 07 2126 Blown Insulation
- 07 2500.FAMF Fluid Applied Membrane Flashing
- 07 2500.SPS Sill Plate Sealer
- 07 4623.LS Engineered Wood Lap Siding
- 07 4623.TR Sheet Metal Flashing and Trim
- 07 6200 Joint Sealants
- 07 9200 Low Expansion Foam Sealant
- 07 9200.LEF Sealant and Backer Rod
- 07 9200.SBR Fiberglass Doors
- 08 1613 Overhead Coiling Doors
- 08 3323 Wood Windows
- 08 5200 Composite Windows
- 12 3600 Countertops



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

No.	1	DATE	12/15/2023
Rev.	1	DATE	12/15/2023
Rev.	2	DATE	12/15/2023
Rev.	3	DATE	12/15/2023
Rev.	4	DATE	12/15/2023
Rev.	5	DATE	12/15/2023
Rev.	6	DATE	12/15/2023
Rev.	7	DATE	12/15/2023
Rev.	8	DATE	12/15/2023
Rev.	9	DATE	12/15/2023
Rev.	10	DATE	12/15/2023
Rev.	11	DATE	12/15/2023
Rev.	12	DATE	12/15/2023
Rev.	13	DATE	12/15/2023
Rev.	14	DATE	12/15/2023
Rev.	15	DATE	12/15/2023
Rev.	16	DATE	12/15/2023
Rev.	17	DATE	12/15/2023
Rev.	18	DATE	12/15/2023
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Rev.	32	DATE	12/15/2023
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Rev.	34	DATE	12/15/2023
Rev.	35	DATE	12/15/2023
Rev.	36	DATE	12/15/2023
Rev.	37	DATE	12/15/2023
Rev.	38	DATE	12/15/2023
Rev.	39	DATE	12/15/2023
Rev.	40	DATE	12/15/2023
Rev.	41	DATE	12/15/2023
Rev.	42	DATE	12/15/2023
Rev.	43	DATE	12/15/2023
Rev.	44	DATE	12/15/2023
Rev.	45	DATE	12/15/2023
Rev.	46	DATE	12/15/2023
Rev.	47	DATE	12/15/2023
Rev.	48	DATE	12/15/2023
Rev.	49	DATE	12/15/2023
Rev.	50	DATE	12/15/2023

19-028.000  
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DATE  
MARCH 24, 2023  
SHEET NAME  
SCHEDULES  
SHEET NO.  
AM600



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") BOTT. & 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 & BOTT.
POST TENSIONED SLABS EXPOSED TO WEATHER	25 (1") TOP & BOTT.
ELEVATED SLABS EXPOSED TO WEATHER:	
#5 AND SMALLER BARS	38 (1 1/2") TOP & 19 (3/4") BOTT.
#6 AND GREATER BARS	51 (2") TOP & 19 (3/4") BOTT.
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") BOTT.
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 <sub>c</sub> = 3000 PSI				f <sub>c</sub> = 4000 PSI				f <sub>c</sub> = 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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FOR ECOTOURISM & SUSTAINABILITY  
MOBILITY HUB PACKAGE  
GULF SHORES, ALABAMA

No.	Date	Revision	Description
1	08/07/2023		Rev. 1 - CS Comments
2	08/14/2023		Rev. 2 - Added Table Detail

JOB: **20-1101-0049**

PROJECT STATUS: **CONFORMANCE SET**

DATE: **MARCH 24, 2023**

SHEET NAME: **ABBREVIATIONS SCHEDULES & TABLES**

SHEET NO.: **SM002**





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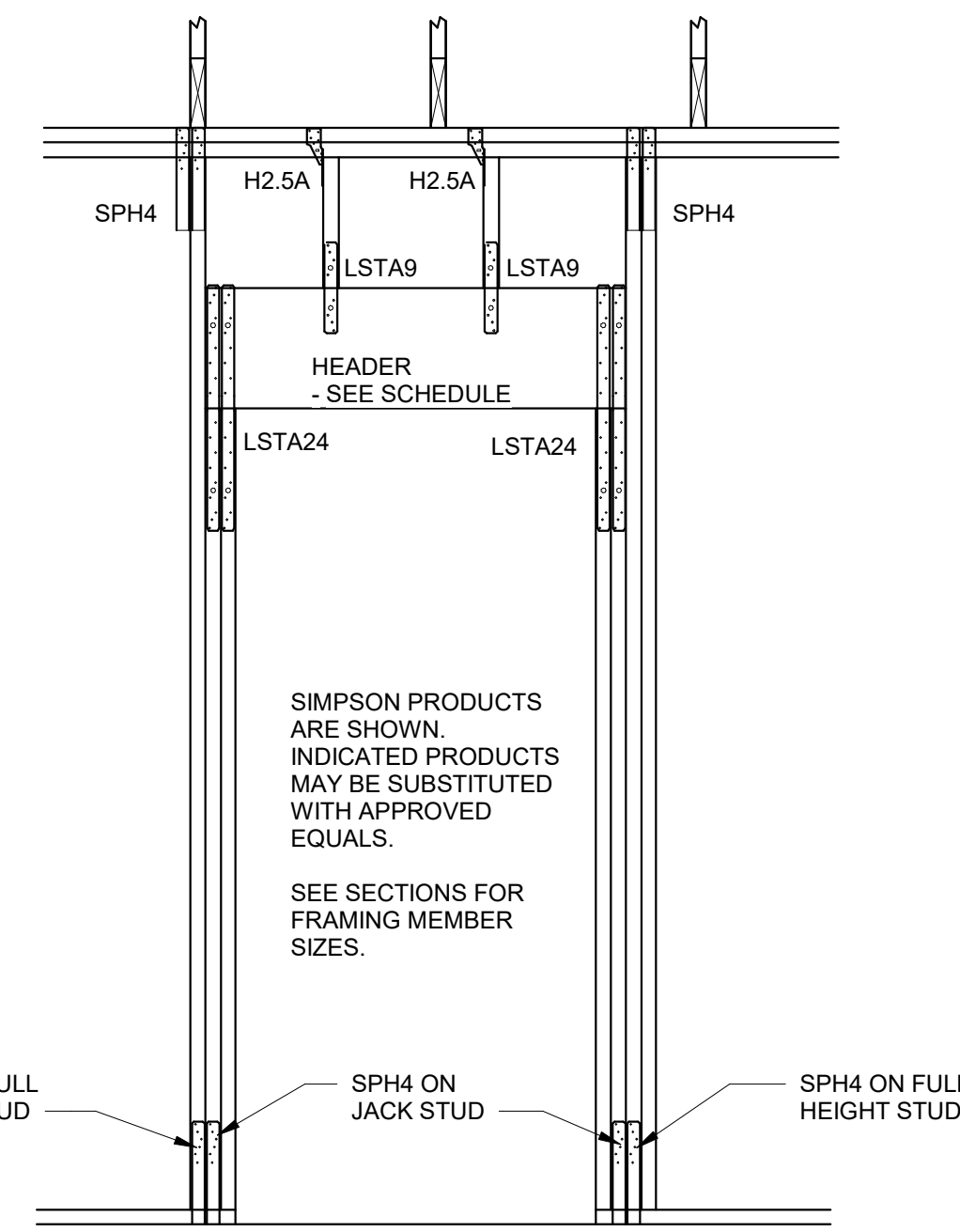
GULF COAST CENTER  
FOR ECOTOURISM & SUSTAINABILITY  
MOBILITY HUB PACKAGE  
GULF SHORES, ALABAMA

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

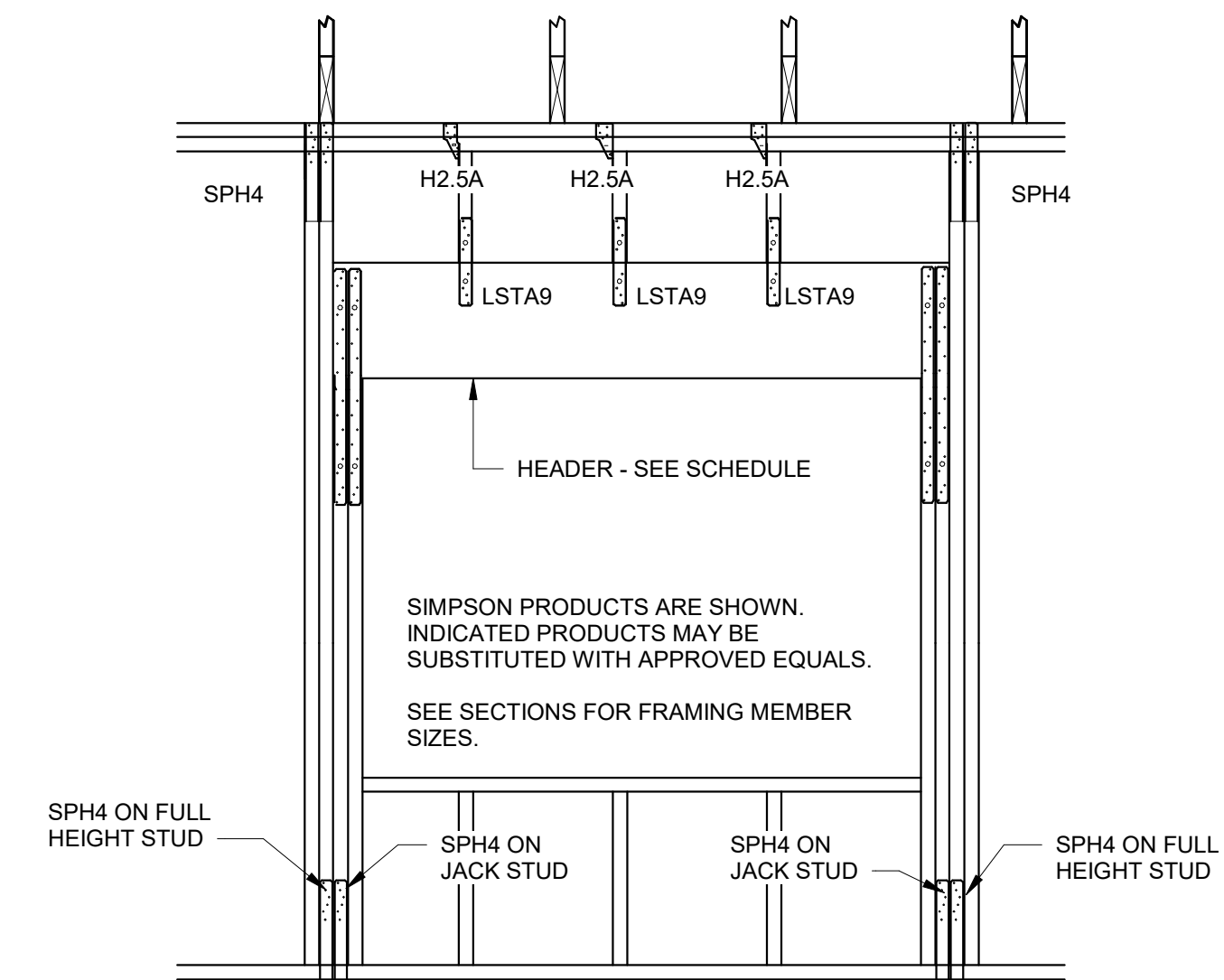
FLOOR		
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION
JOIST TO SILL, TOP PLATE, OR GIRDER	3-8D COMMON (2 1/2"x0.131"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131 NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, 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

No.	Date	Revision	Issued
1	03/24/2023	Rev. 1 - CS, Comments	
2	03/24/2023	Rev. 2 - Added Table with Details	

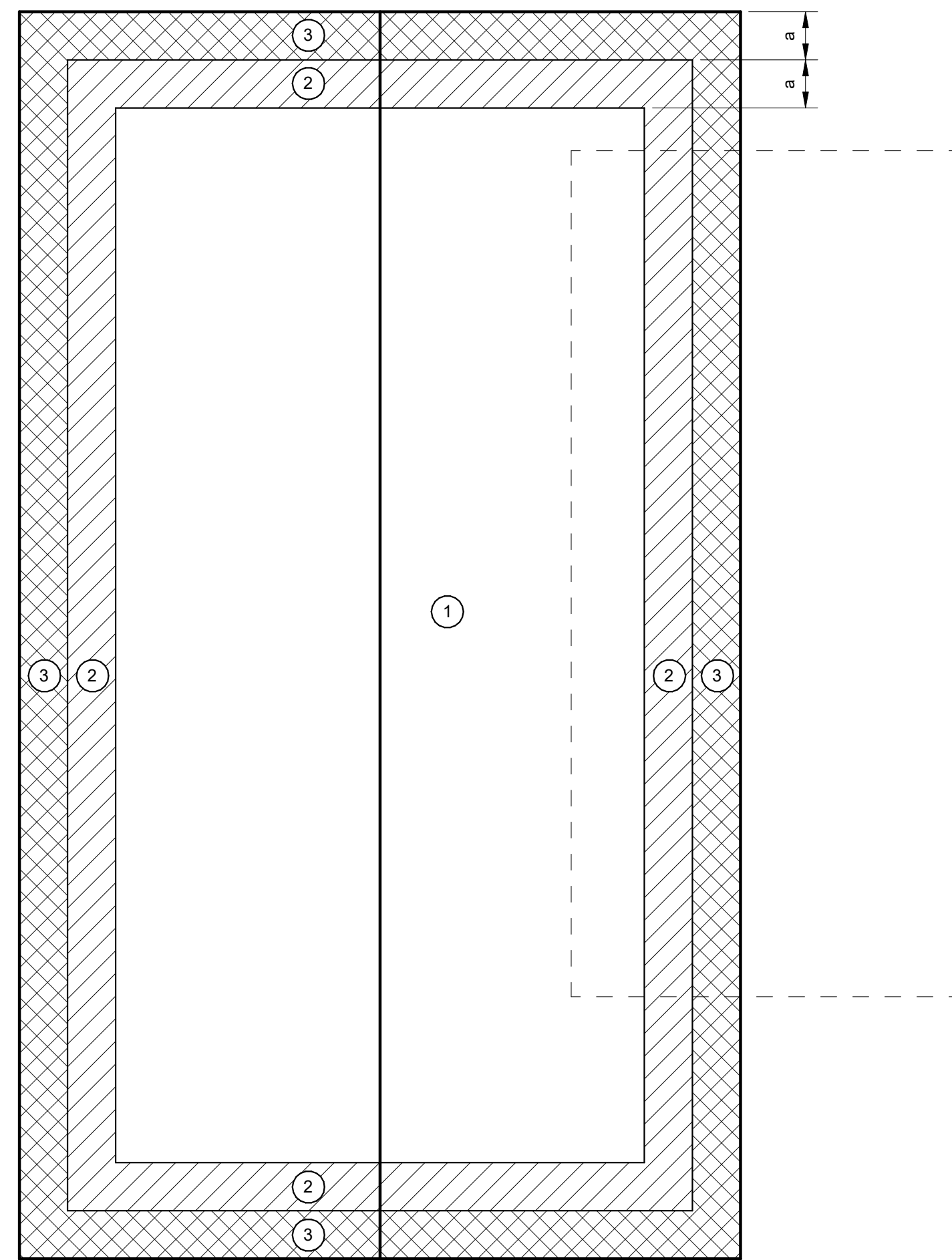
JOB  
**20-1101-0049**

PROJECT STATUS  
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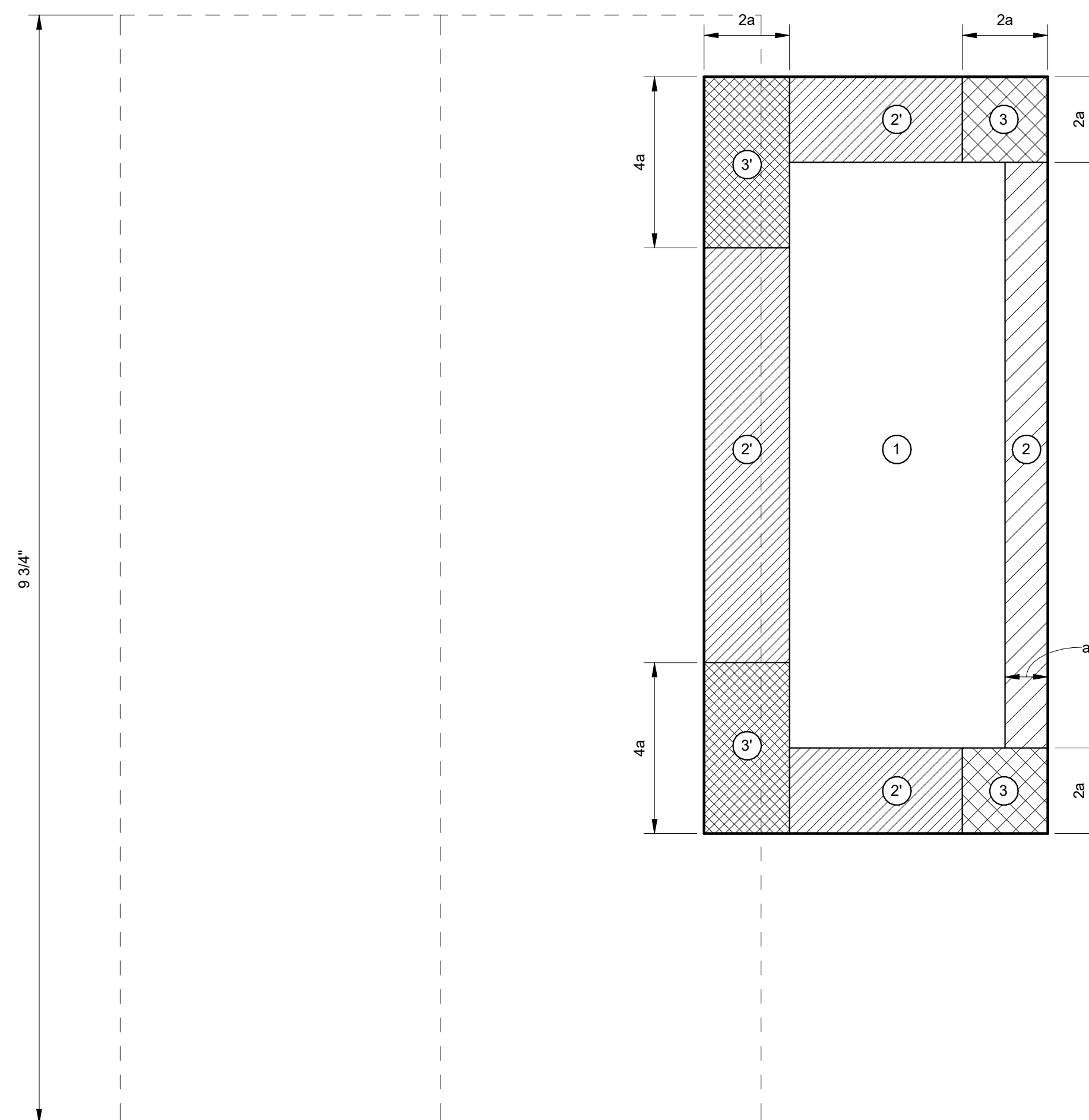
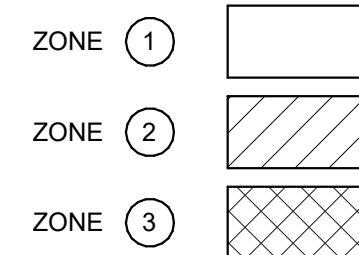
DATE  
**MARCH 24, 2023**

SHEET NAME  
**SCHEDULES & TABLES**

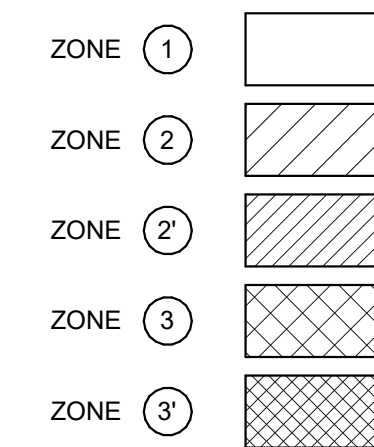
SHEET NO.  
**SM003**



**HIGH ROOF (OPEN) WIND DIAGRAM**



**LOW ROOF WIND DIAGRAM**



C&C Pressures Table Open						
OPEN LOCATION	OPEN ZONE	OPEN AREA	OPEN ULTIMATE +P	OPEN ULTIMATE -P	OPEN ALLOWABLE +P	OPEN ALLOWABLE -P
ROOF	1	$\leq a^2$	45.4	-33.0	27.2	-19.8
ROOF	1	$> a^2 \leq 4.0a^2$	45.4	-33.0	27.2	-19.8
ROOF	2	$\leq a^2$	70.2	-49.5	42.1	-29.7
ROOF	2	$> a^2 \leq 4.0a^2$	70.2	-49.5	42.1	-29.7
ROOF	3	$\leq a^2$	90.8	-66.0	54.5	-39.6
ROOF	3	$> a^2 \leq 4.0a^2$	70.2	-49.5	42.1	-29.7
ROOF	3	$> 4.0a^2$	45.4	-33.0	27.2	-19.8

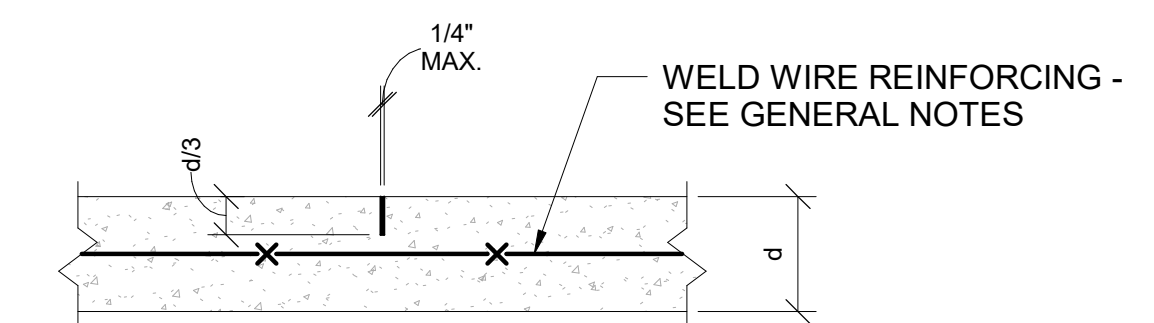
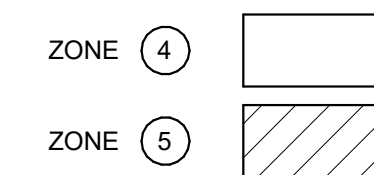
- NOTES:
- DESIGN BASED ON ASCE 7-16, SECTION 30. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
  - ALLOWABLE WIND LOADS ARE 60% OF ULTIMATE WIND LOADS.
  - PRESSURE CATEGORY, OPEN.
  - WIDTH OF EDGE STRIP, "a" = 3'-2".

C&C Pressures Table						
LOCATION	ZONE	AREA	ULTIMATE +P	ULTIMATE -P	ALLOWABLE +P	ALLOWABLE -P
ROOF	1	10	22.2	-59.1	13.3	-35.5
ROOF	1	20	19.9	-59.1	11.9	-35.5
ROOF	1	50	17.5	-59.1	10.5	-35.5
ROOF	1	100	17.5	-59.1	10.5	-35.5
ROOF	1	200	17.5	-59.1	10.5	-35.5
ROOF	1	500	17.5	-59.1	10.5	-35.5
ROOF	2	10	22.2	-68.3	13.3	-41.0
ROOF	2	20	19.9	-66.0	11.9	-39.6
ROOF	2	50	17.5	-63.7	10.5	-38.2
ROOF	2	100	17.5	-63.7	10.5	-38.2
ROOF	2	200	17.5	-63.7	10.5	-38.2
ROOF	2	500	17.5	-63.7	10.5	-38.2
ROOF	2'	10	22.2	-82.2	13.3	-49.3
ROOF	2'	20	19.9	-81.7	11.9	-49.0
ROOF	2'	50	17.5	-80.3	10.5	-48.2
ROOF	2'	100	17.5	-77.6	10.5	-46.6
ROOF	2'	200	17.5	-77.6	10.5	-46.6
ROOF	2'	500	17.5	-77.6	10.5	-46.6
ROOF	3	10	22.2	-91.4	13.3	-54.8
ROOF	3	20	19.9	-82.2	11.9	-49.3
ROOF	3	50	17.5	-77.6	10.5	-46.6
ROOF	3	100	17.5	-63.7	10.5	-38.2
ROOF	3	200	17.5	-63.7	10.5	-38.2
ROOF	3	500	17.5	-63.7	10.5	-38.2
ROOF	3'	10	22.2	-128.4	13.3	-77.0
ROOF	3'	20	19.9	-114.5	11.9	-68.7
ROOF	3'	50	17.5	-96.0	10.5	-57.6
ROOF	3'	100	17.5	-82.2	10.5	-49.3
ROOF	3'	200	17.5	-82.2	10.5	-49.3
ROOF	3'	500	17.5	-82.2	10.5	-49.3
WALL	4	10	54.5	-59.1	32.7	-35.5
WALL	4	20	50.8	-56.8	30.5	-34.1
WALL	4	50	47.1	-53.6	28.3	-32.2
WALL	4	100	45.7	-50.8	27.4	-30.5
WALL	4	200	44.3	-48.5	26.6	-29.1
WALL	4	500	40.6	-45.2	24.4	-27.1
WALL	5	10	54.5	-73.0	32.7	-43.8
WALL	5	20	50.8	-68.3	30.5	-41.0
WALL	5	50	47.1	-61.4	28.3	-36.8
WALL	5	100	45.7	-55.9	27.4	-33.5
WALL	5	200	44.3	-52.2	26.6	-31.3
WALL	5	500	40.6	-45.2	24.4	-27.1

- NOTES:
- DESIGN BASED ON ASCE 7-16, SECTION 30. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
  - ALLOWABLE WIND LOADS ARE 60% OF ULTIMATE WIND LOADS.
  - PRESSURE CATEGORY, ENCLOSED.
  - WIDTH OF EDGE STRIP, "a" = 3'-2".



**WALL WIND DIAGRAM**



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**



ARCHITECTURE WORKS

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Revision	
Date	
No.	

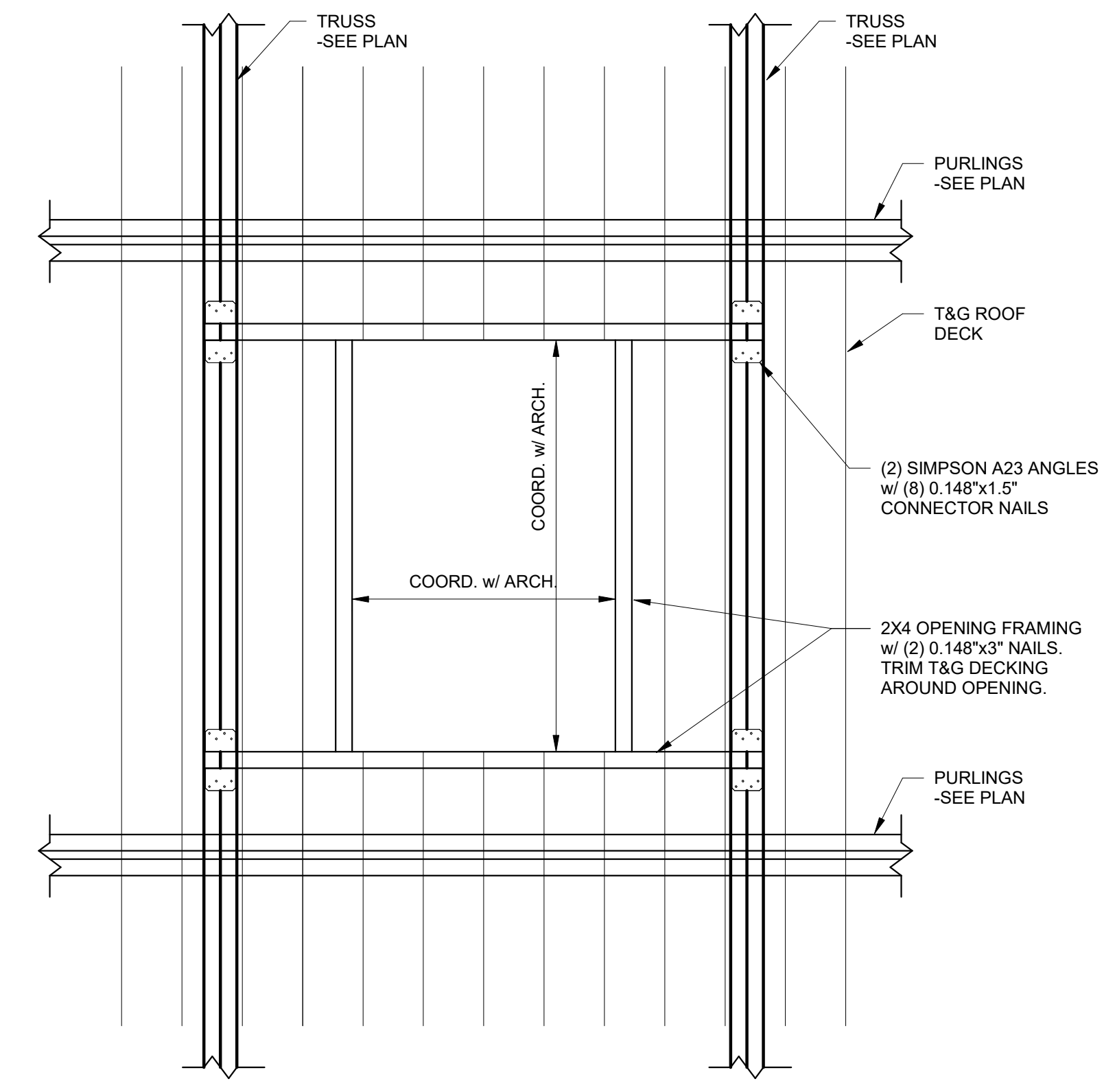
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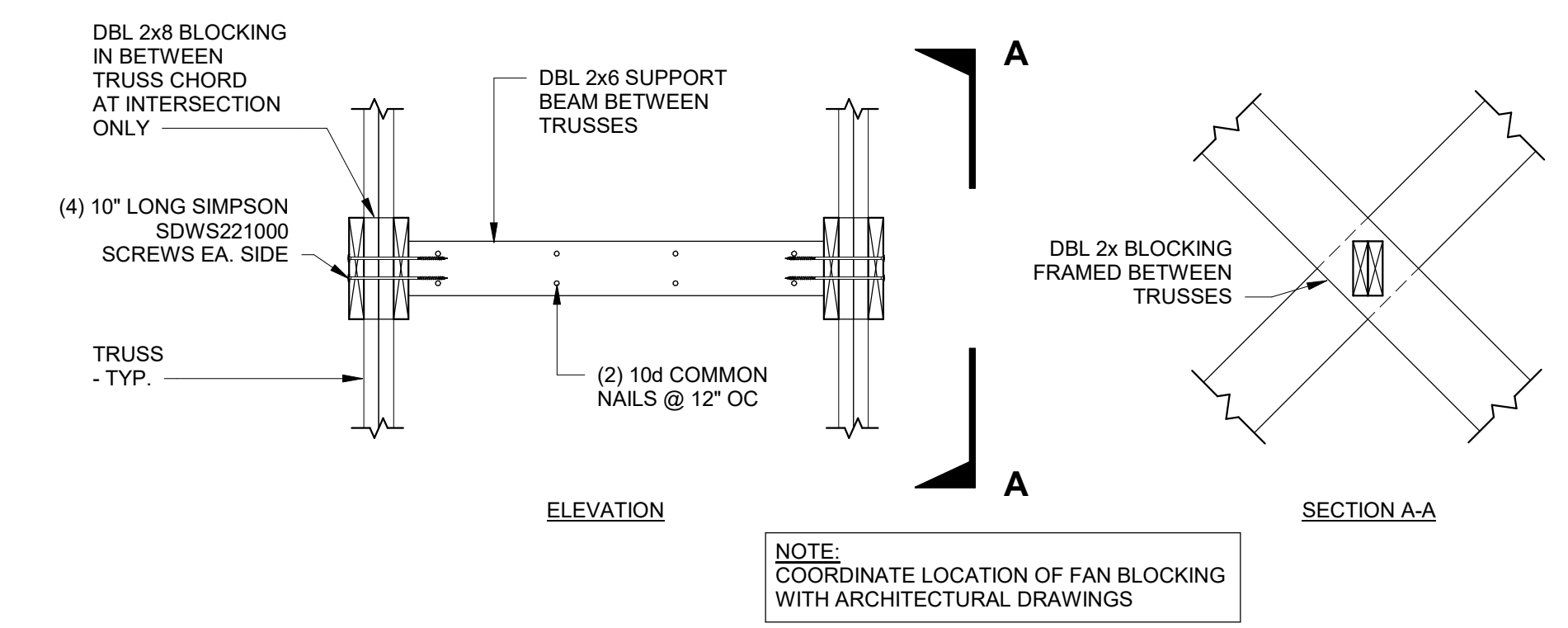
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SHEET NAME  
 C&C WIND DIAGRAMS AND TYPICAL DETAILS  
 SHEET NO.

SM004



**ROOF PENETRATION DETAIL**



**FAN SUPPORT BEAM DETAIL**



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Date	
No.	

JOB  
**20-1101-0049**

PROJECT STATUS  
**CONFORMANCE SET**

DATE  
**MARCH 24, 2023**

SHEET NAME  
**TYPICAL DETAILS**

SHEET NO.  
**SM005**

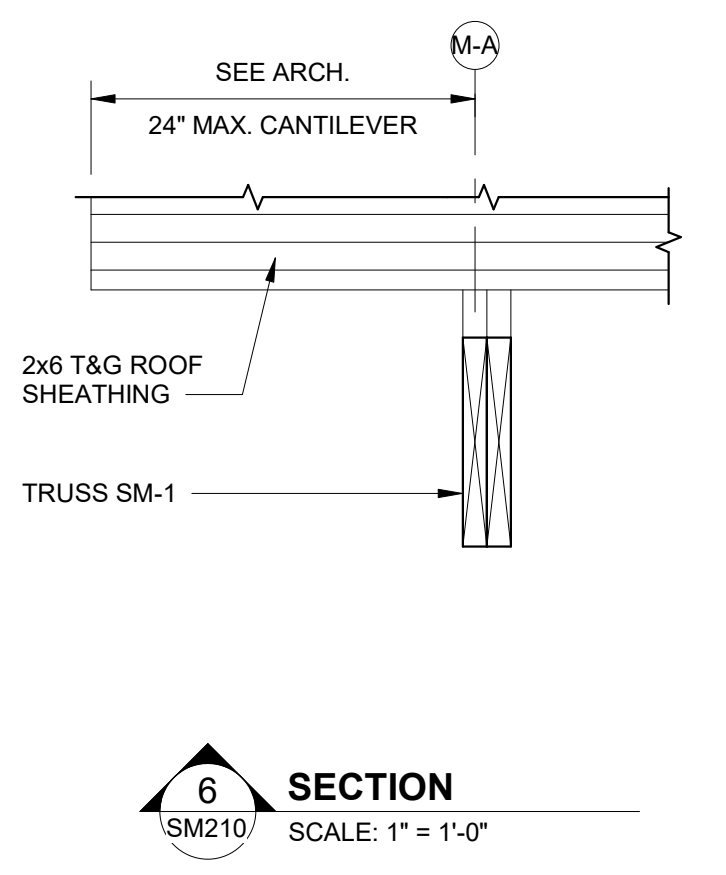
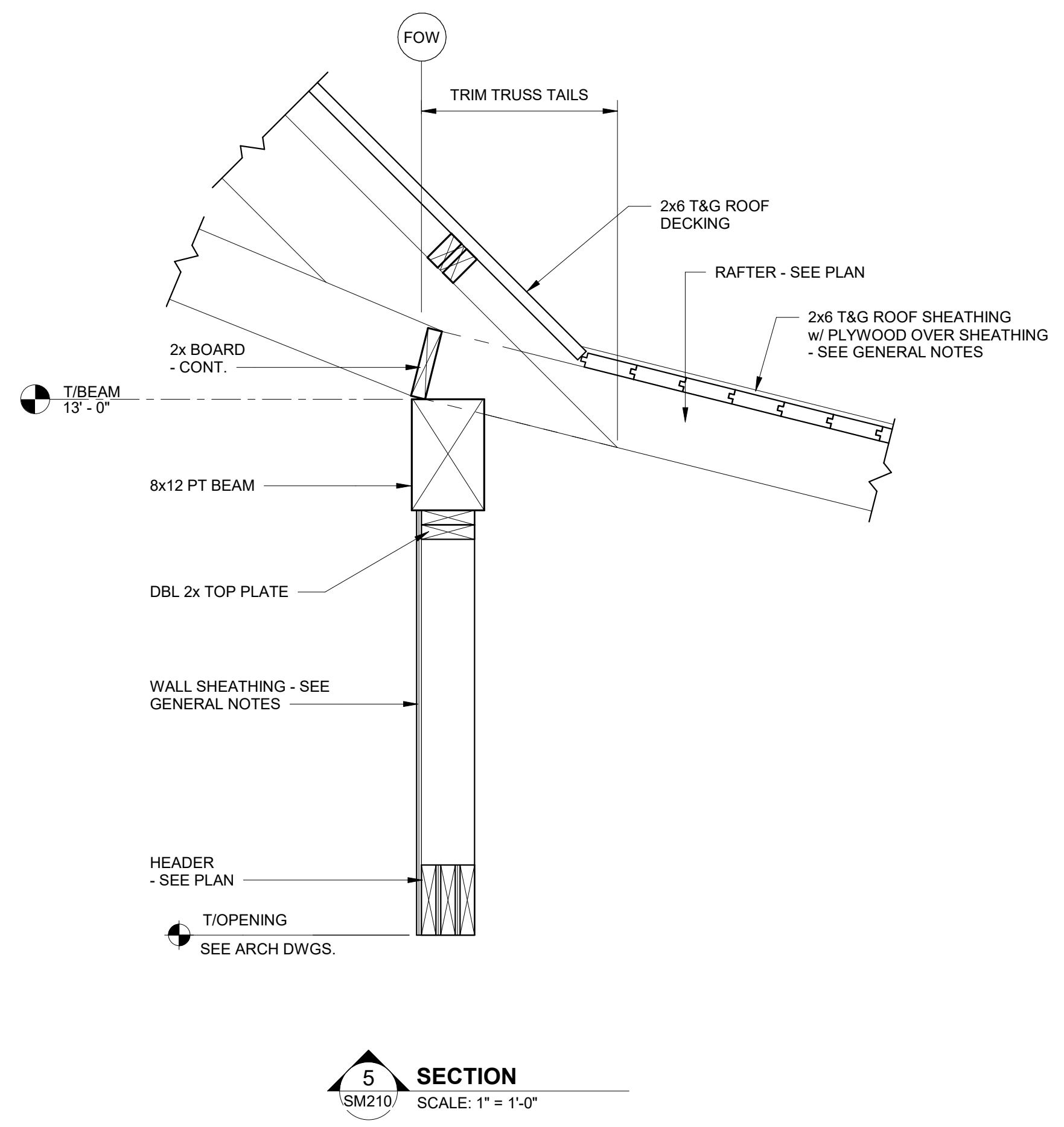
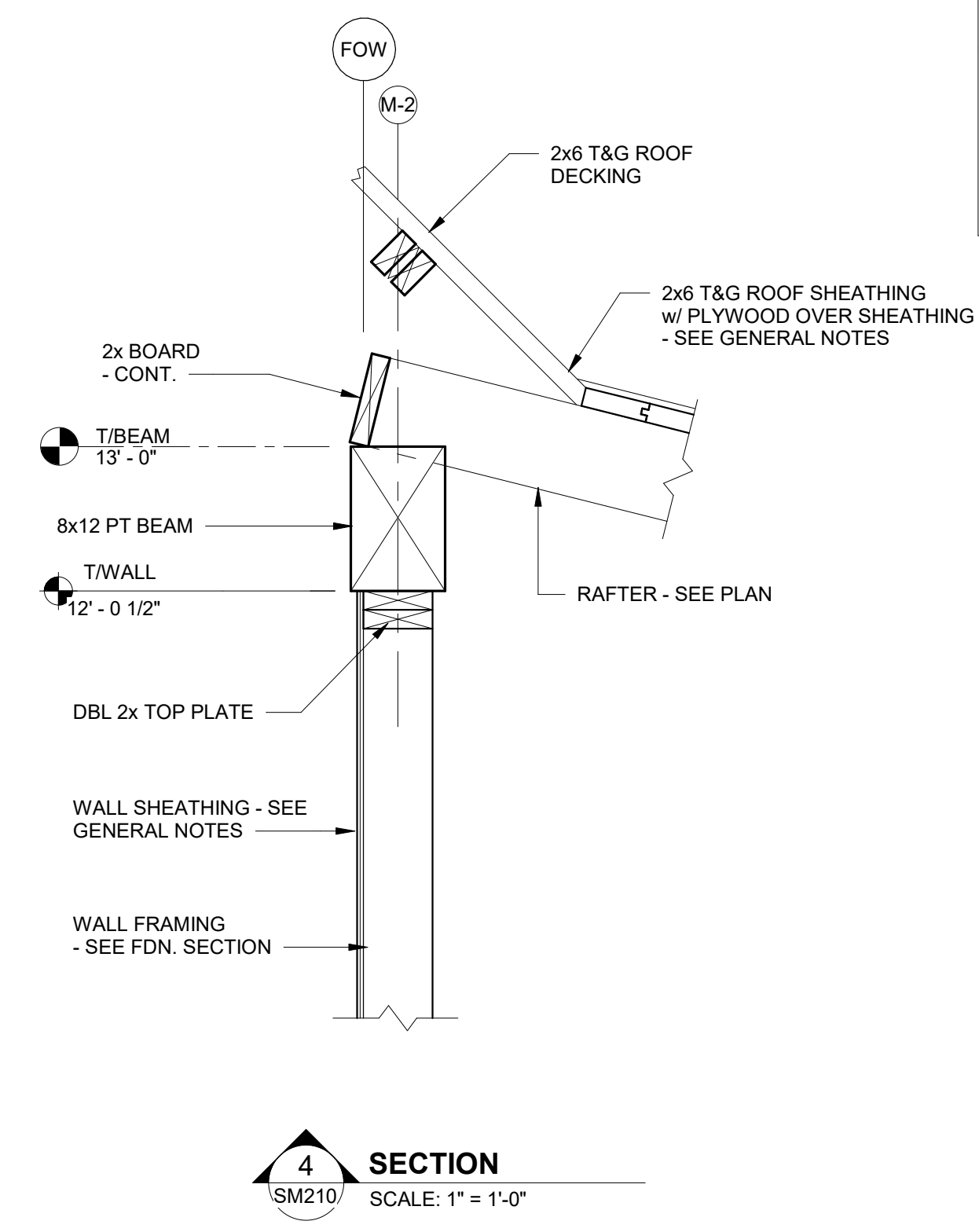
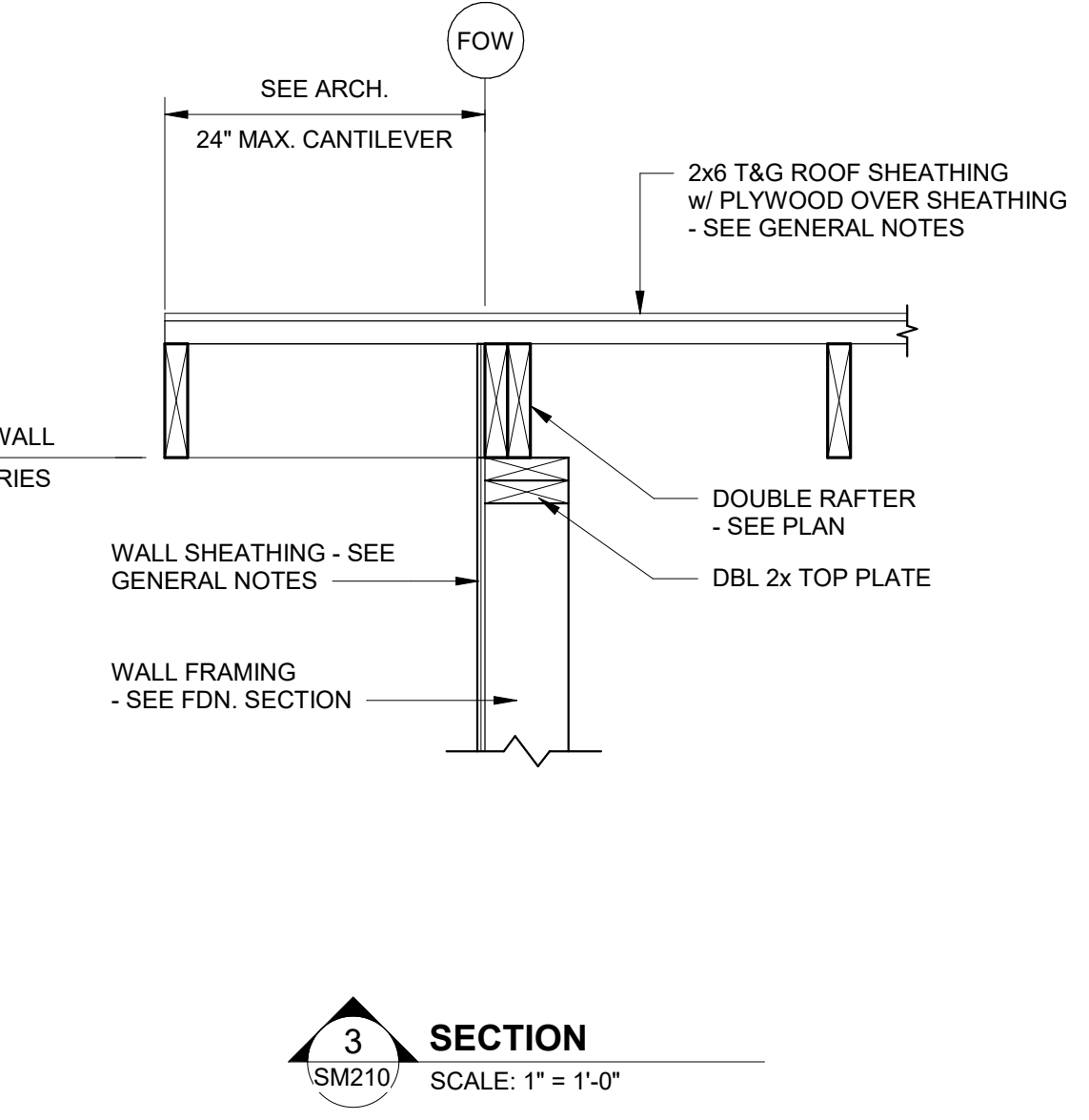
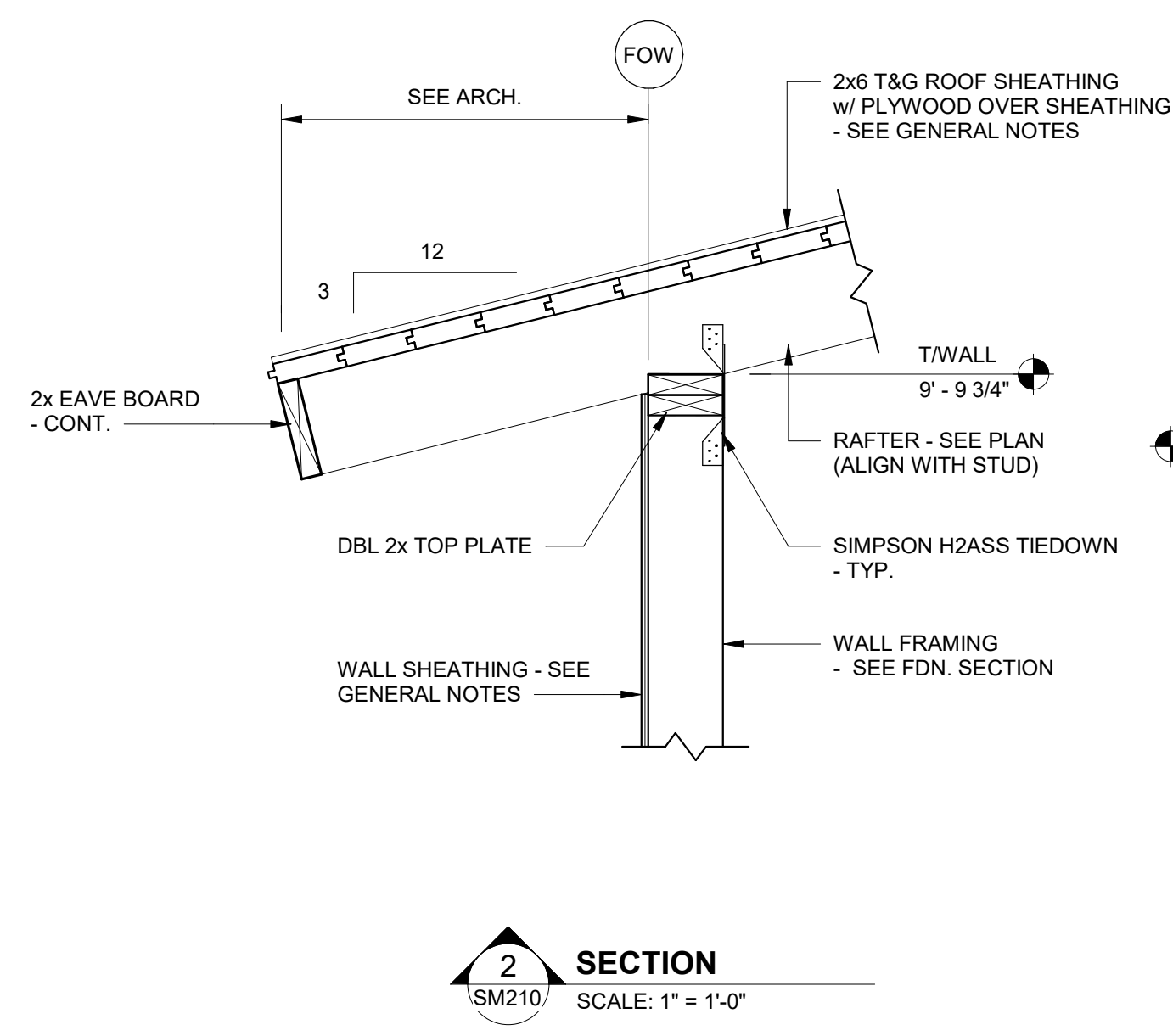
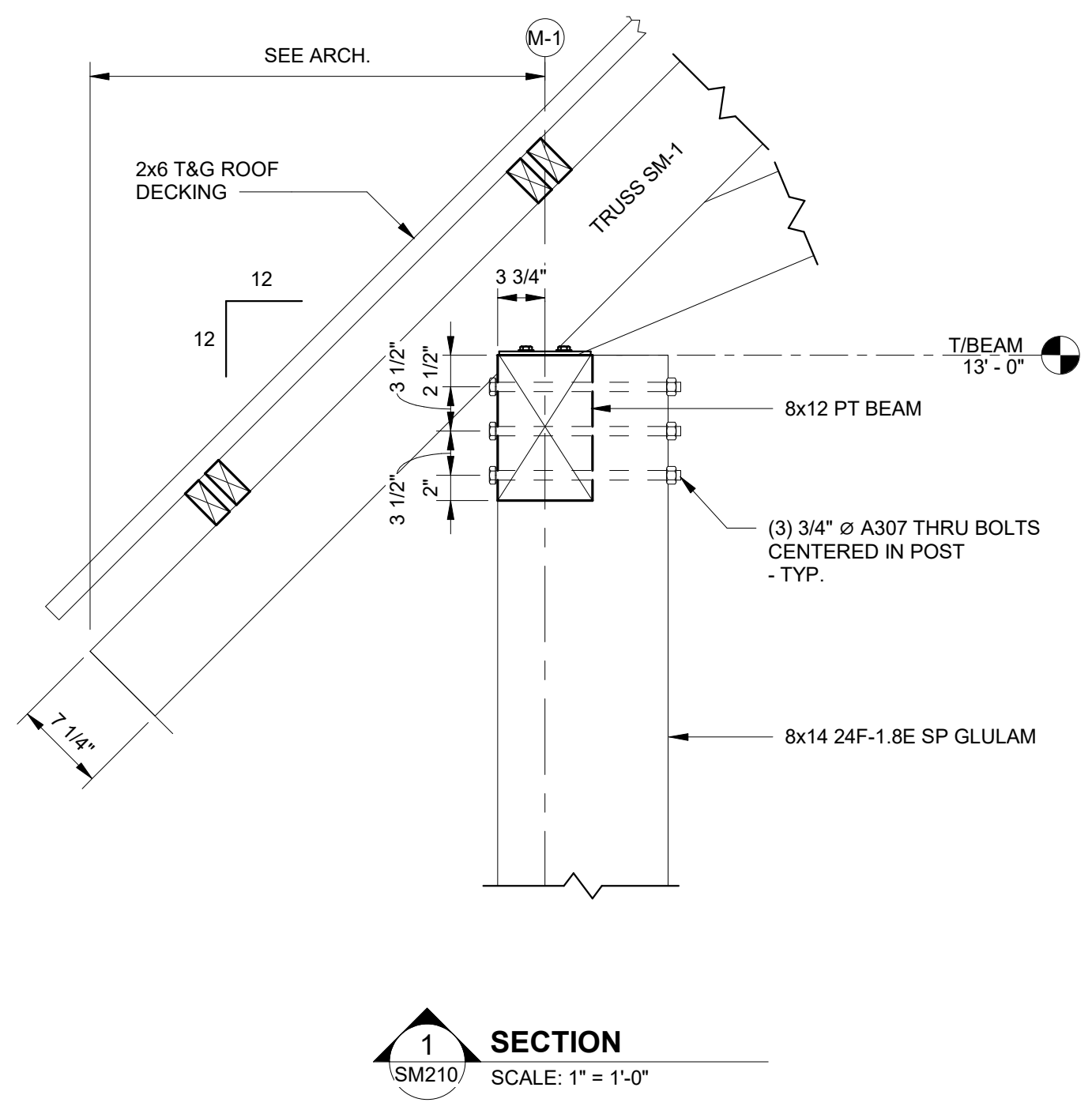








Revisions	
Date	
No.	
JOB	20-1101-0049
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	ROOF FRAMING SECTIONS
SHEET NO.	SM210







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No.	Date	Revision

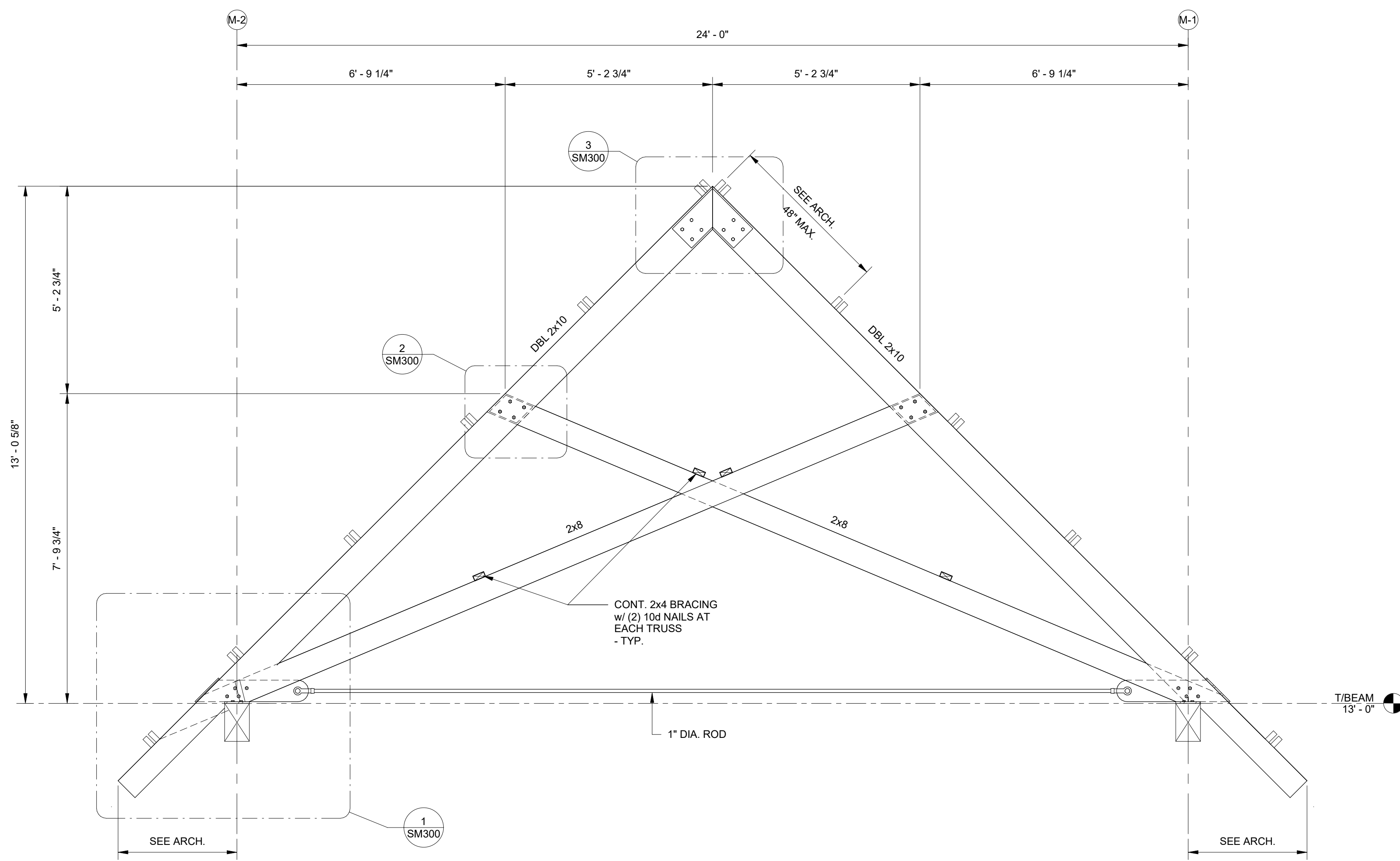
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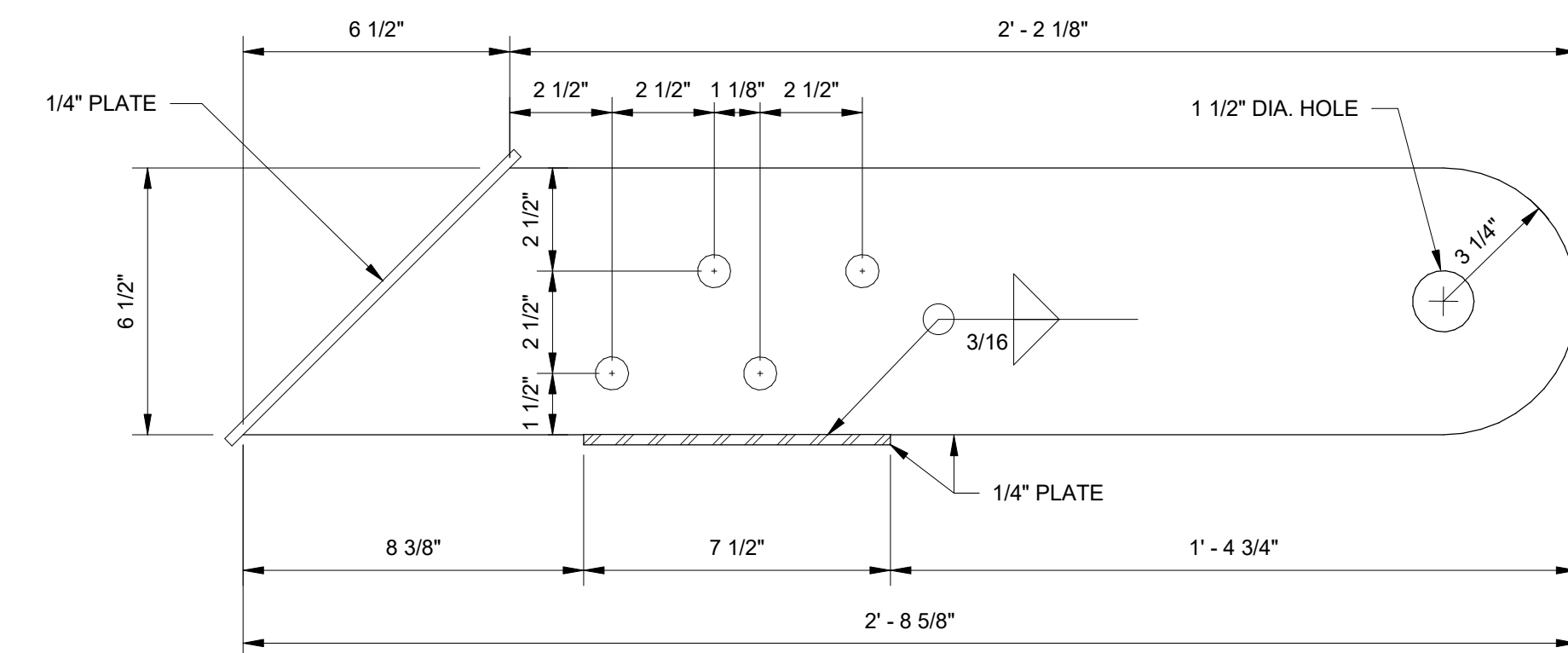
DATE  
**MARCH 24, 2023**

SHEET NAME  
**TRUSS ELEVATION**

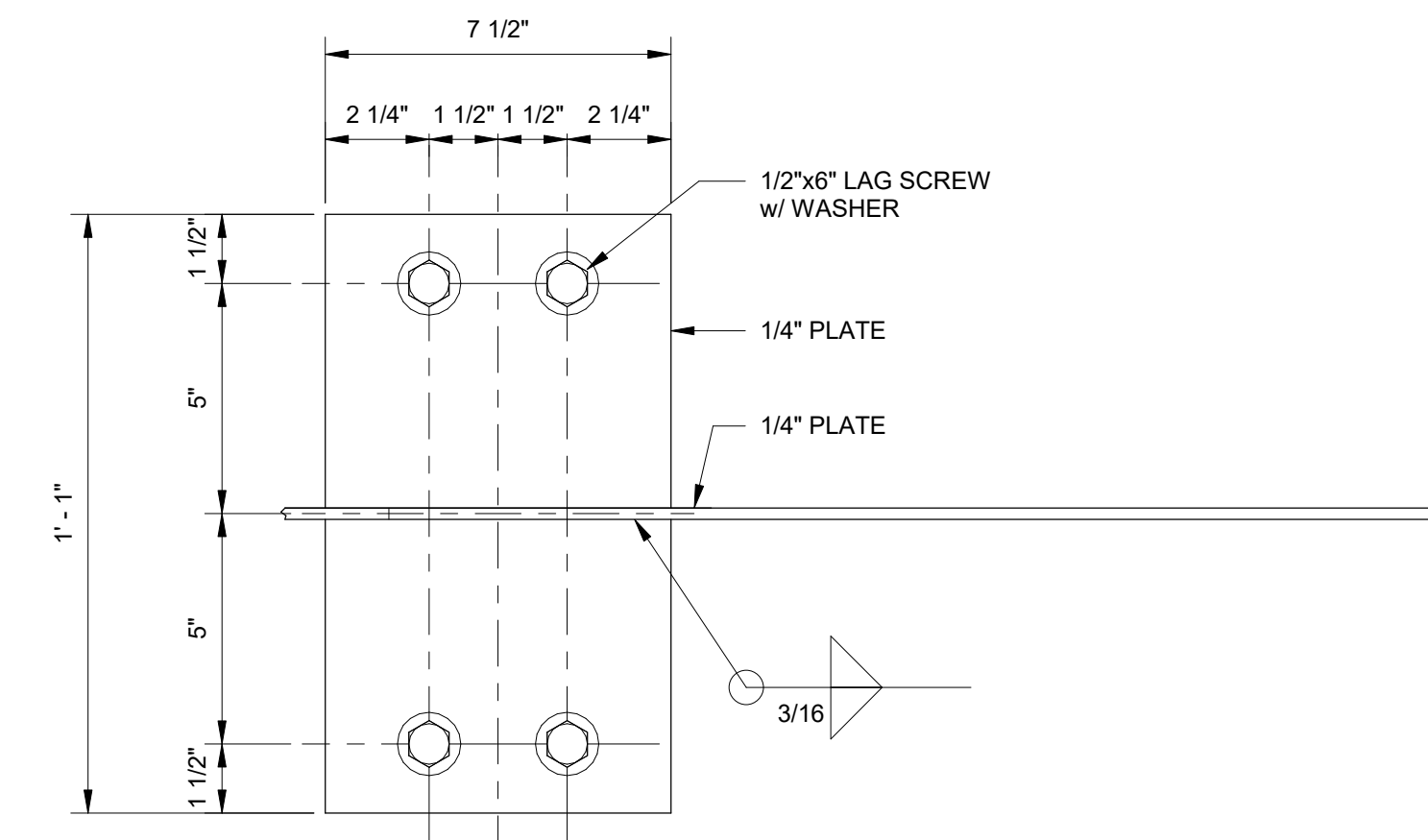
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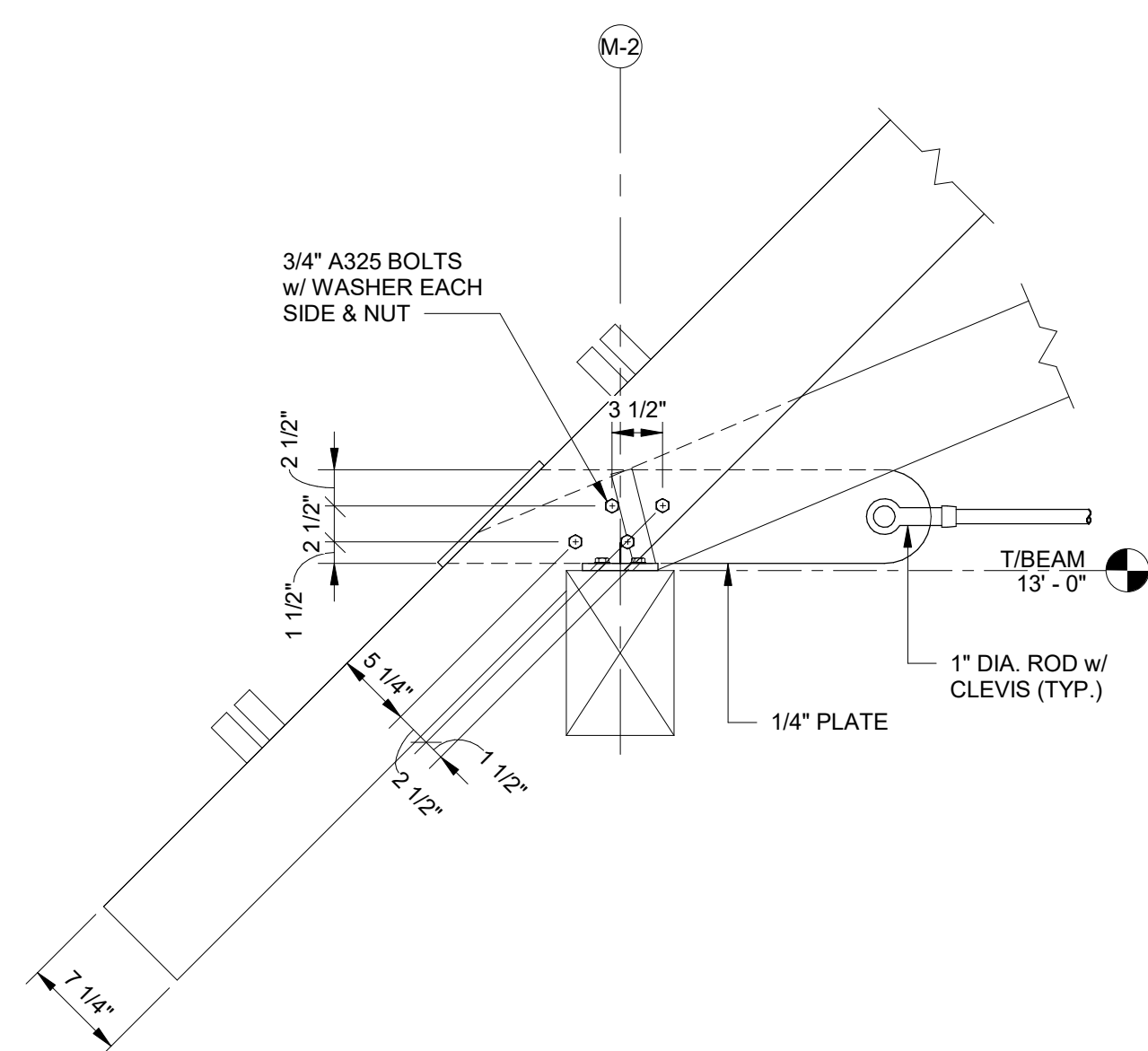
**TRUSS SM-1**  
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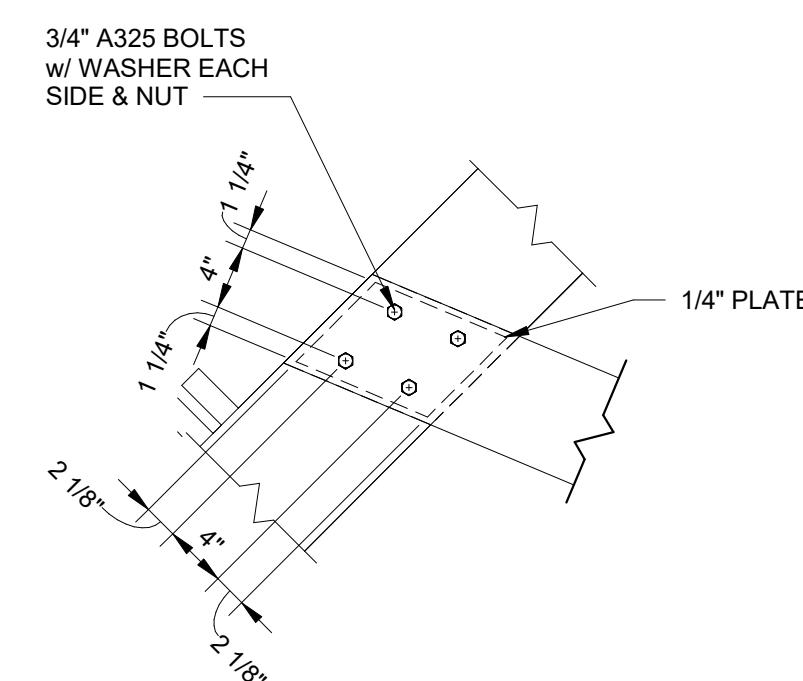
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SCALE: 3" = 1'-0"



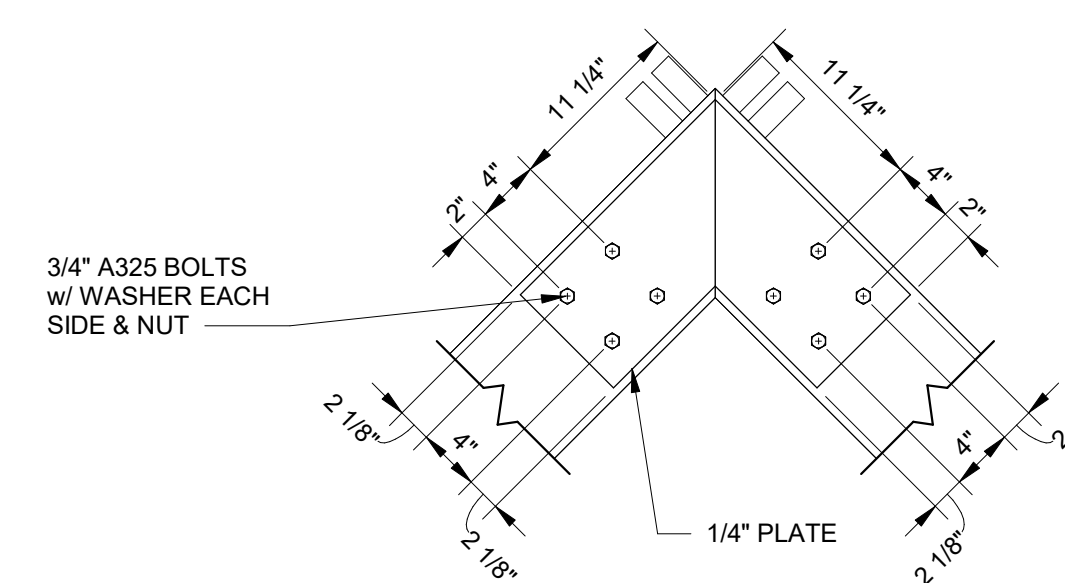
**TRUSS SEAT PLATE DETAIL - TRUSS SG-1**  
SCALE: 3" = 1'-0"



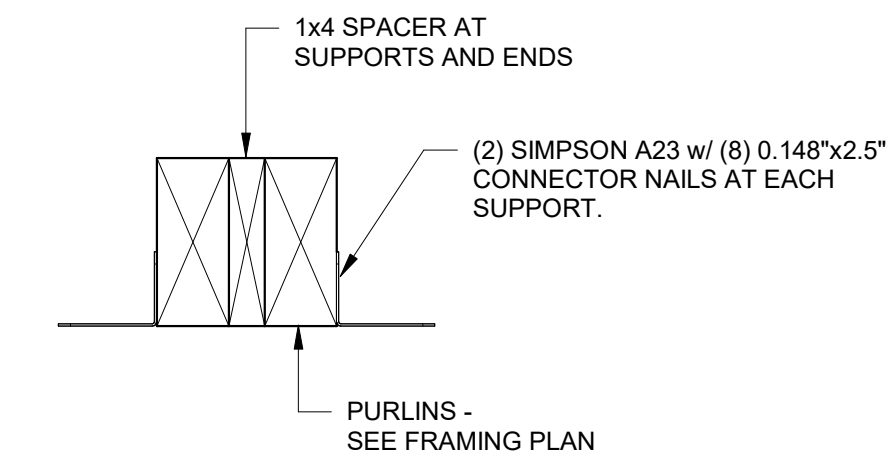
**1 DETAIL**  
SM300 SCALE: 1" = 1'-0"



**2 DETAIL**  
SM300 SCALE: 1" = 1'-0"

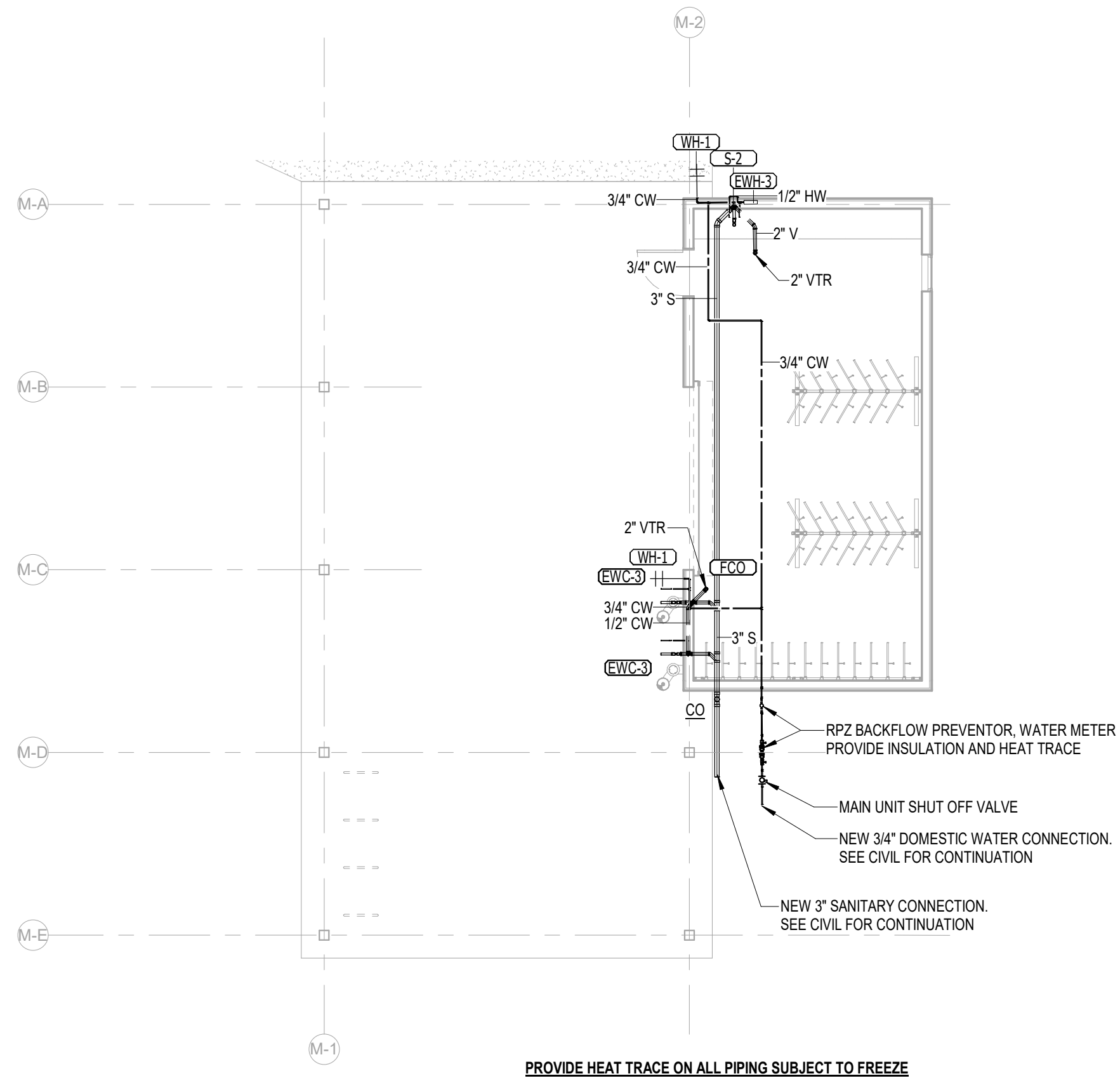


**3 DETAIL**  
SM300 SCALE: 1" = 1'-0"

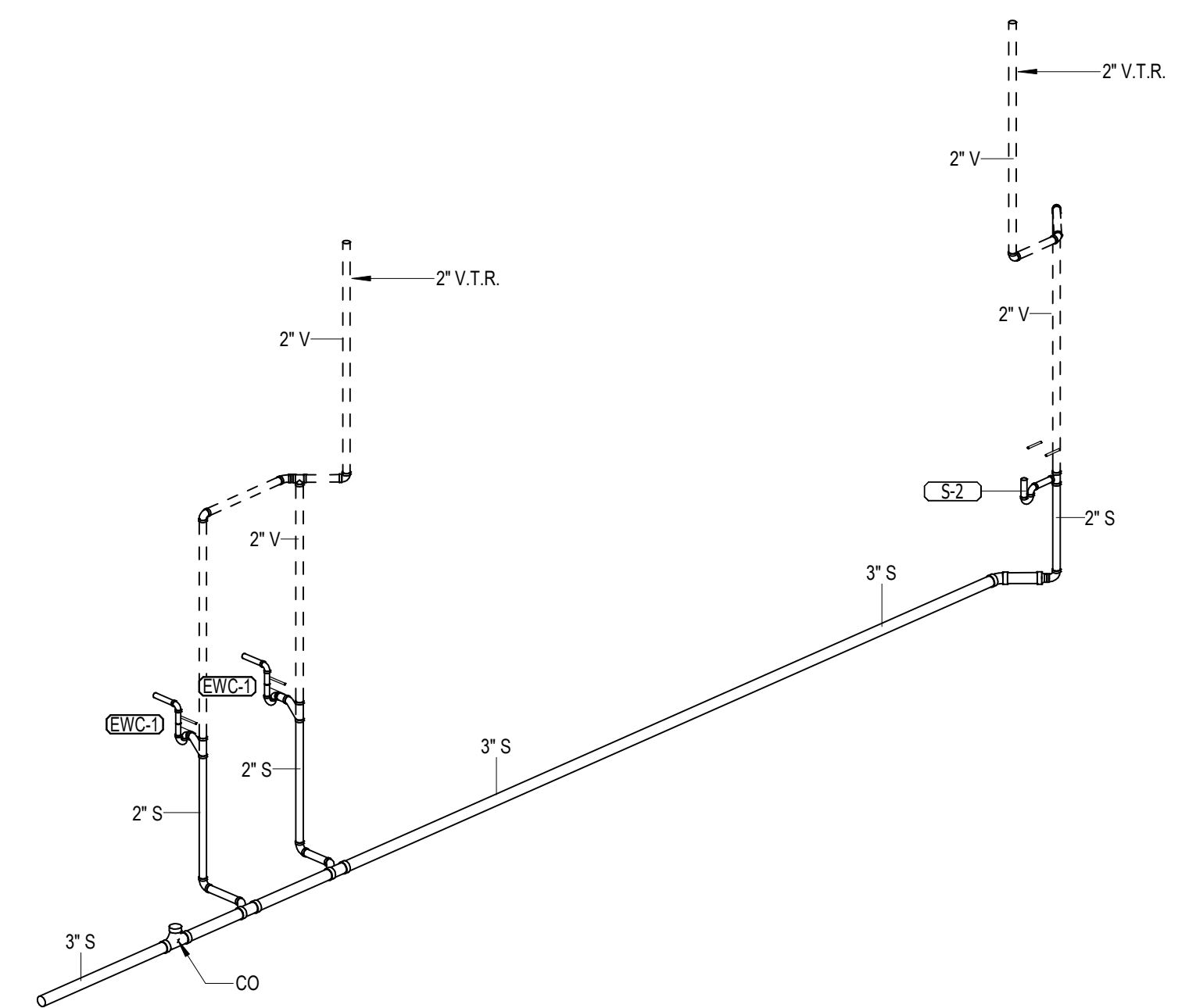


**PURLIN DETAIL**  
SCALE: 3" = 1'-0"





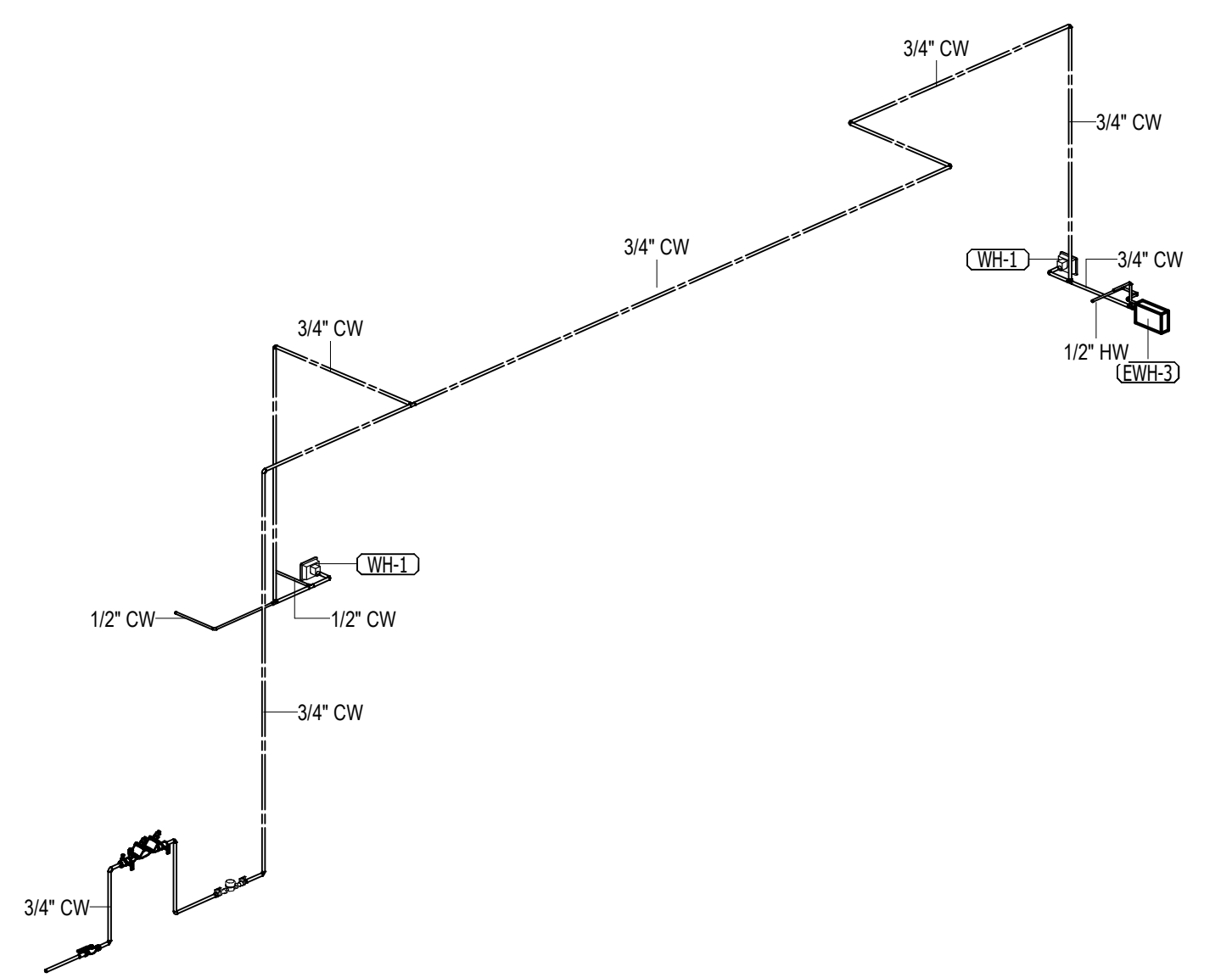
**LEVEL 1 - MOBILITY HUB - PLUMBING**  
 1/8" = 1'-0"



**2 MOBILITY HUB GRAVITY ISO**

PLUMBING SYMBOLS		PLUMBING ABBREVIATIONS	
SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION
	- CONDENSATE DRAIN PIPING	CA	- COMPRESSED AIR
	- DOMESTIC COLD WATER PIPING	AFF	- ABOVE FINISH FLOOR
	- DOMESTIC HOT WATER PIPING	AW	- ACID WASTE
	- DOMESTIC HOT WATER RETURN PIPING	AV	- ACID VENT
	- SANITARY WASTE PIPING	CB	- CATCH BASIN
	- VENT PIPING	CD	- CONDENSATE DRAIN
	- STORM DRAIN PIPING	CFH	- CUBIC FEET PER HOUR
	- OVERFLOW STORM DRAIN PIPING	CO	- CLEANOUT
	- FUEL GAS PIPING	CONT	- CONTINUATION
	- HOSE BIBB OR WALL HYDRANT	CW	- DOMESTIC COLD WATER
	- CLEANOUT PLUG	DI	- DEIONIZED WATER
	- WALL CLEANOUT	DN	- DOWN
	- FLOOR CLEANOUT / EXTERIOR CLEANOUT	DS	- DOWNSPOUT
	- FLOOR DRAIN	DWG	- DRAWING
	- FLOOR SINK	EXIST	- EXISTING
	- DECK DRAIN	F	- DEGREE FAHRENHEIT
	- SHUT-OFF VALVE	FCO	- FLOOR CLEANOUT
	- BALL VALVE	FD	- FLOOR DRAIN
	- CALIBRATED BALANCING VALVE	FOF	- FUEL OIL FILL
	- CHECK VALVE (SWING)	FOG	- FUEL OIL GAGE
	- PRESSURE REDUCING VALVE	FOR	- FUEL OIL RETURN
	- DETAIL REFERENCE	FOS	- FUEL OIL SUPPLY
	- PIPE TAG	FOV	- FUEL OIL VENT
	- REVISION REFERENCE	FS	- FLOOR SINK
		FSE#	- FOODSERVICE EQUIPMENT NUMBER
		G	- GAS
		GPH	- GALLONS PER HOUR
		GPM	- GALLONS PER MINUTE
		GR	- KITCHEN WASTE (GREASE)
		HB	- HOSE BIBB
		HD	- HUB DRAIN
		HW	- DOMESTIC HOT WATER
		HWR	- DOMESTIC HOT WATER RECIRCULATING
		IE	- INVERT ELEVATION
		IW	- INDIRECT WASTE
		KW	- KILOWATT
		LBS	- POUNDS
		MH	- MANHOLE
		NC	- NORMALLY CLOSED
		NIC	- NOT IN CONTRACT
		NO	- NORMALLY OPEN
		NP	- NON-POTABLE WATER
		NTS	- NOT TO SCALE
		OD	- OUTSIDE DIAMETER
		PRV	- PRESSURE REDUCING VALVE
		PSI	- POUNDS PER SQUARE INCH
		PVC	- POLYVINYL CHLORIDE PIPE
		RD	- ROOF DRAIN
		RRW	- RECYCLED RAIN WATER
		RRBP	- REDUCED PRESSURE BACKFLOW PREVENTOR
		SAN	- SANITARY
		SD	- STORM DRAIN
		SF	- SQUARE FEET
		SH	- SHEET
		ST	- STORM
		STO	- OVERFLOW STORM DRAIN
		SW	- SOFT COLD WATER
		V	- VENT
		VAC	- VACUUM
		VC	- VACUUM CLEANING
		VTR	- VENT THRU ROOF
		WCO	- WALL CLEANOUT
		WTR	- WATER

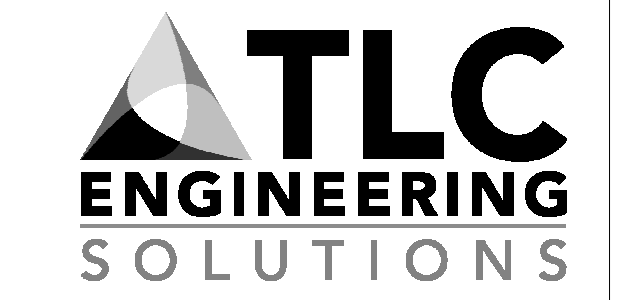
NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT



**3 MOBILITY HUB PRESSURE ISO**

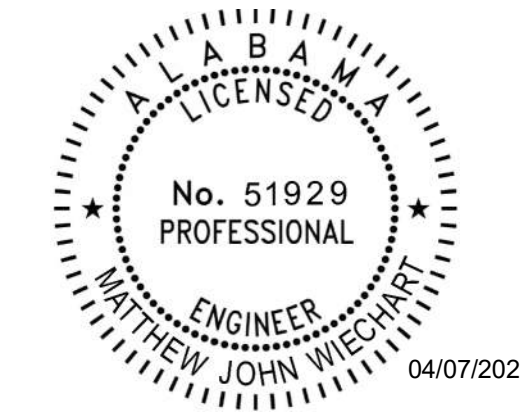
**PLUMBING GENERAL NOTES**

- REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
- THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
- UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORSEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION, WILL BE NECESSARY.
- FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO REMAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
- NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
- PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
- PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
- CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
- PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
- SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH UL LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
- FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
- WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
- SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
- PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
- ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
- MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE.
- PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
- COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
- COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
- ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
- PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
- ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. IF MATERIALS ARE NOT NON-COMBUSTIBLE IN RETURN AIR PLENUMS, THEY SHALL BE REPLACED OR WRAPPED WITH A UL LISTED FIRE RATED FIRE WRAP (I.E. FYREWAP 0.5 PLENUM INSULATION OR APPROVED EQUAL) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S UL LISTED DETAILS AND RECOMMENDATIONS AT NO ADDITIONAL COST. (NOTE: REFER TO MECHAICAL DRAWINGS FOR RETURN AIR PLENUM LOCATIONS.)
- PIPING, INSULATION, FITTINGS, MATERIALS, COVERS AND FINISHES IN RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
- INSTALL POINT OF USE MIXING VALVES FOR ALL HAND SINKS. BASIS OF DESIGN: ZURN AQUA GARD.
- NSF-61-G COMPLIANCE. PRODUCTS IN CONTACT WITH DOMESTIC WATER FOR HUMAN CONSUMPTION SHALL MEET NSF-61-G AND CONTAIN LESS THAN 0.25% (WEIGHTED AVERAGE) OF LEAD. ALL PRODUCTS SHALL BE LABELED WITH THE CERTIFICATION MARK NSF-61-G2. CLEAN AND DISINFECT POTABLE AND NON-POTABLE DOMESTIC WATER PIPING REFER TO PLUMBING SPECIFICATION DOMESTIC WATER PIPING FOR ADDITIONAL INFORMATION.

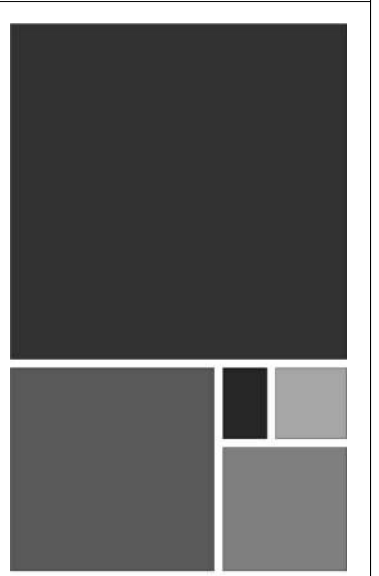


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**GULF COAST CENTER**  
 FOR ECOTOURISM & SUSTAINABILITY  
 MOBILITY HUB PACKAGE  
 GULF SHORES, ALABAMA

NO.	
DATE	
JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX
SHEET	PM001

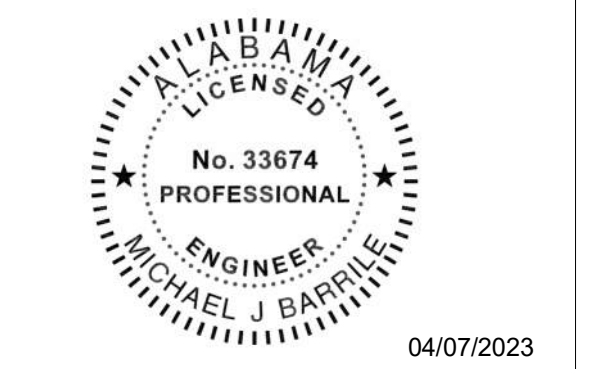
ELECTRICAL SYMBOL LEGEND

Table with columns: BASIC MATERIALS, FIRE ALARM / DETECTION SYSTEM, ABBREVIATIONS, and ABBREVIATIONS (CONT.). Each column contains symbols and their corresponding descriptions.

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

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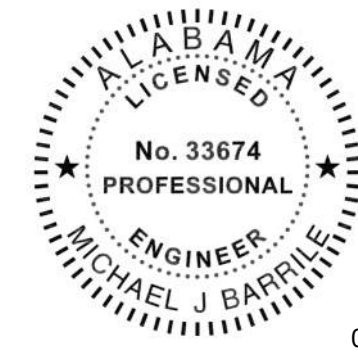
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MAWFIELD SHED PACKAGE#3
GULF SHORES, ALABAMA

ELECTRICAL DRAWING INDEX table with columns SHEET and DESCRIPTION. Lists sheets EM000 through EM501 and their respective descriptions.

Revision table with columns No., Date, and Description. Includes revision 1 for 'ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX'.

Project information: JOB 19-028.000, PROJECT STATUS CONFORMANCE SET, DATE MARCH 24, 2023, SHEET ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX, and sheet number EM000.





04/07/2023

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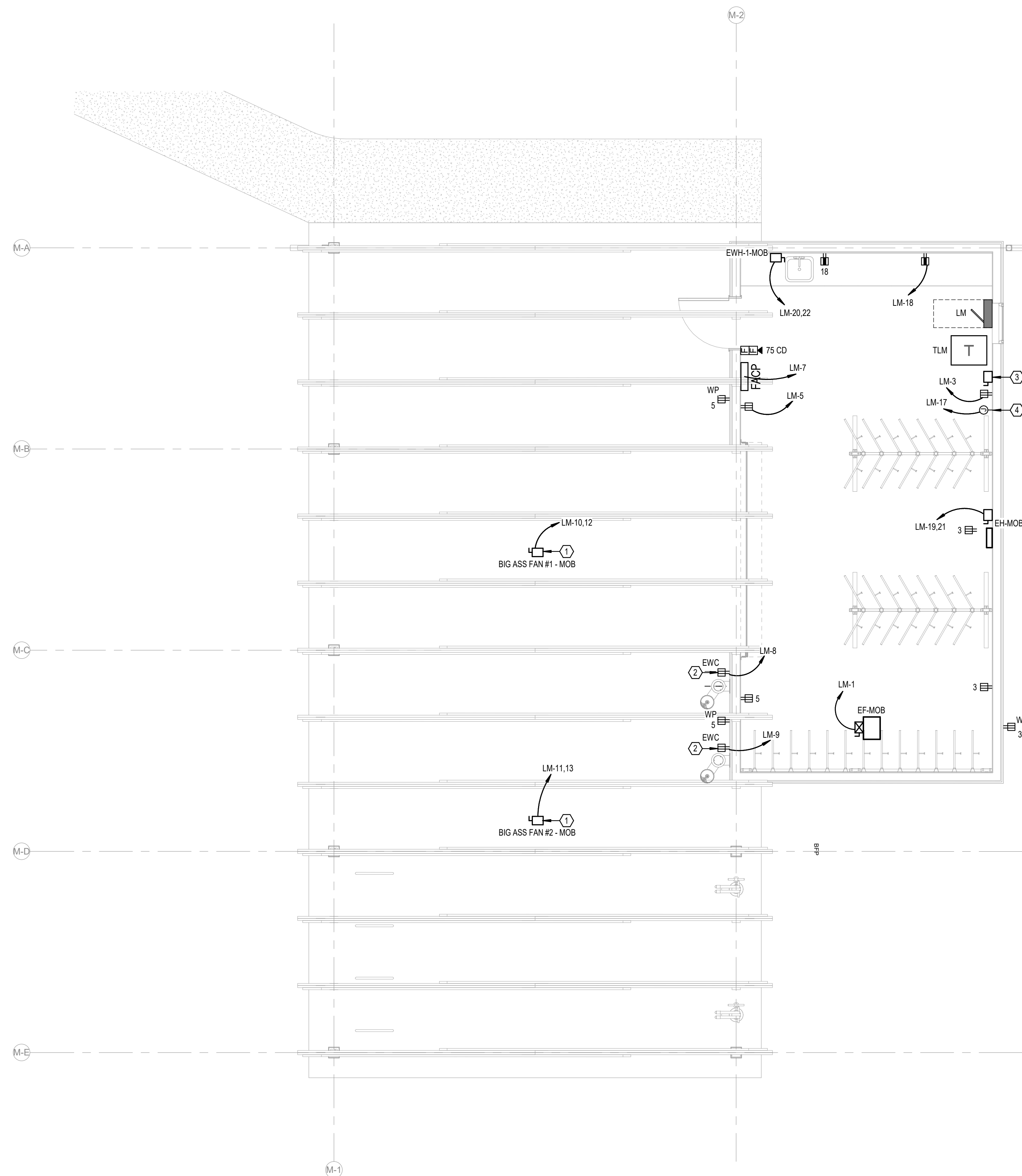
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GULF SHORES, ALABAMA



ELECTRICAL KEY NOTES	
#	KEYNOTE TEXT
1	PROPOSED LOCATION OF A "BIG ASS" FAN. COORDINATE FINAL PLACEMENT WITH ARCHITECT AND EXACT REQUIREMENTS WITH SUBMITTED SHOP DRAWINGS PRIOR TO INSTALLATION.
2	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.
3	PROVIDE A 480V, 3-PHASE, 60A RATED PRIMARY SIDE LOCAL DISCONNECT SWITCH FOR THIS TRANSFORMER.
4	PROVIDE 120V, 20A POWER CONNECTION POINT AT THIS LOCATION FOR THE EMERGENCY LIGHTING INVERTER SYSTEM.

LEVEL 1 - MOBILITY HUB -  
POWER  
1/4" = 1'-0"

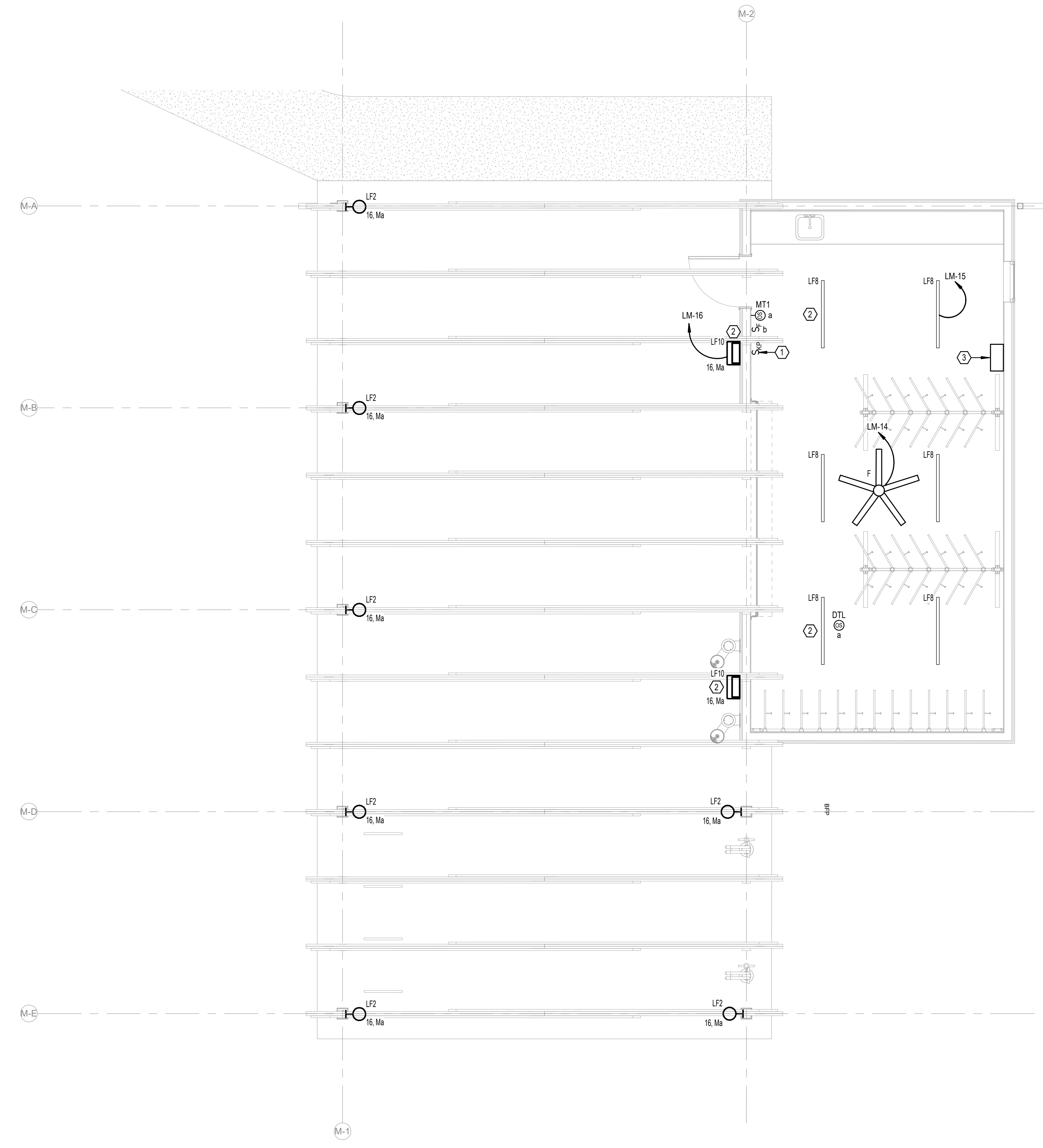
NO.	DATE	REVISION	INITIALS

JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	MOBILITY HUB POWER FLOOR PLAN
SHEET	EM100



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ELECTRICAL KEY NOTES	
#	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 A 350W, 120V RATED EMERGENCY LIGHTING INVERTER WITH BATTERIES (UL 924) AT THIS LOCATION. BASIS-OF-DESIGN: MYERS EMERGENCY POWER SYSTEMS, MODEL #LV-2-R-1-82003-B-RT.

1 LEVEL 1 - MOBILITY HUB - LIGHTING  
1/4" = 1'-0"

Revised						
Date						
No.						
JOB	19-028.000					
PROJECT STATUS	CONFORMANCE SET					
DATE	MARCH 24, 2023					
SHEET	MOBILITY HUB LIGHTING FLOOR PLAN					
SHEET	EM200					



04/07/2023

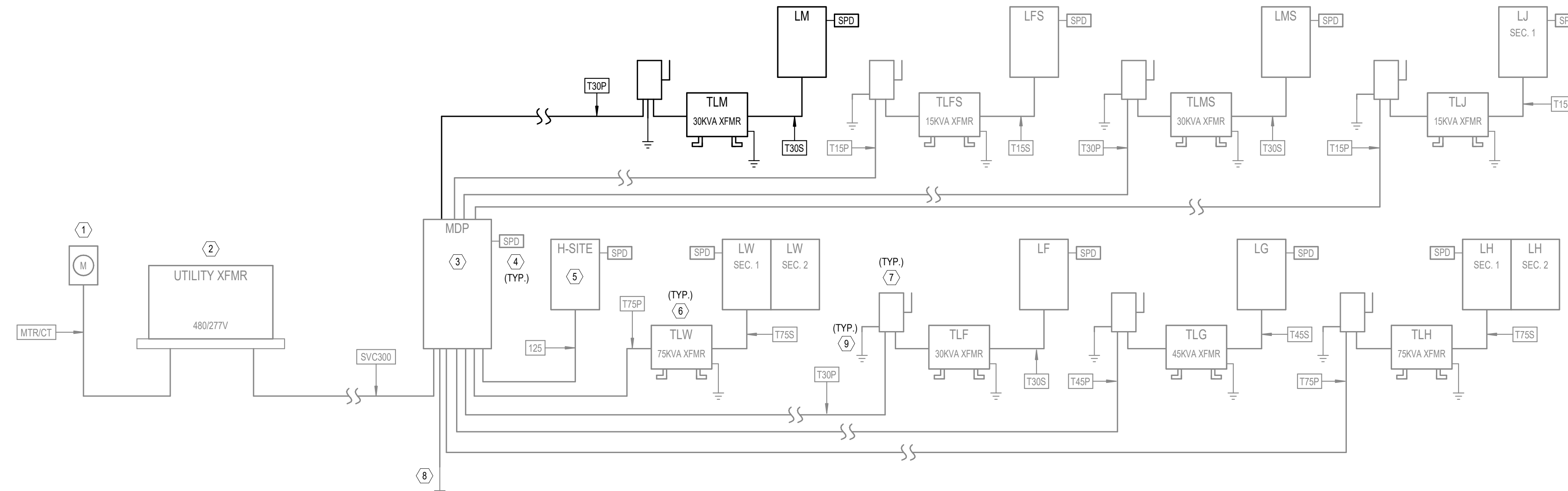
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**ELECTRICAL RISER KEY NOTES**

#	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	#8
TLMS	30	3	480D	120/208Y	#6
TLJ	15	3	480D	120/208Y	#8



**RISER DIAGRAM - MOBILITY HUB**

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.

NO SCALE

KN	CKT	Circuit Description	Trip(A)	P	A (VA)	B (VA)	C (VA)	P	Trip(A)	Circuit Description	CKT	KN
2	1	EF-MOB-2	20	1	80	0					2	2
1	3	GENERAL RECEPTACLES	20	1		720	0		3	30	SPD	4
1	5	GENERAL RECEPTACLES	20	1			720	0				6
1	7	FIRE ALARM	20	1	400	600			1	20	WATER COOLER	8
1	9	WATER COOLER	20	1		600	750		2	20	BIG ASS FAN #1	10
2	11	BIG ASS FAN #2	20	2	750	60			1	20	INTERIOR CEILING FAN	14
1	13	INTERIOR LIGHTING	20	1		216	135		1	20	EXTERIOR LIGHTING	16
1	15	EM LIGHTING INVERTER	20	1			500	360	1	20	COUNTERTOP RECEPTACLES	18
2	19	EH-MOB	20	2	1500	4160			2	50	EW-H-1-MOB	20
21	21	SPARE	20	1		1500	4160		1	20	SPARE	22
23	23	SPARE	20	1		0	0		1	20	SPARE	24
25	25	SPARE	20	1		0	0		1	20	SPARE	26
27	27	SPARE	20	1		0	0		1	20	SPARE	28
29	29	SPARE	--	1		--	--		1	--	SPARE	30
31	31	SPARE	--	1		--	--		1	--	SPARE	32
33	33	SPARE	--	1		--	--		1	--	SPARE	34
35	35	SPARE	--	1		--	--		1	--	SPARE	36
37	37	SPARE	--	1		--	--		1	--	SPARE	38
39	39	SPARE	--	1		--	--		1	--	SPARE	40
41	41	SPARE	--	1		--	--		1	--	SPARE	42
		Connected Phase Load (KVA)	7.550		8.038		3.080					
		Connected Phase Amps (A)	68.647		72.711		25.967					
<b>Load Classification</b>		<b>Connected Load</b>	<b>Demand Factor</b>	<b>Demand Load</b>				<b>Panel Totals</b>				
Equipment		13020 VA	100.00%	13020 VA				<b>Total Connected Load (KVA): 18.667</b>				
HEATING		3000 VA	100.00%	3000 VA				<b>Total Demand Load (KVA): 18.687</b>				
Lighting		380 VA	100.00%	380 VA				<b>Total Demand Current (A): 52</b>				
Other		400 VA	100.00%	400 VA								
Receptacle		1800 VA	100.00%	1800 VA								
HVAC		80 VA	125.00%	100 VA								

**Panel Keynotes (KN):**  
1. (2#12 AWG CU THWN & (1)#12 AWG CU (EG) IN 3/4" CONDUIT.  
2. REFER TO ELECTRICAL EQUIP. COORD. SCHEDULE

**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
T25	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"	
T15S	1	(3) #10	---	(1) #10	(1) 3/4"	15KVA TRANSFORMER PRIMARY
T15S	1	(3) #4	(1) #4	(1) #10	(1) 1 1/4"	15KVA TRANSFORMER SECONDARY
T30P	1	(3) #8	(1) #8	(1) #10	(1) 1"	30KVA TRANSFORMER PRIMARY
T30S	1	(3) #1	(1) #1	(1) #8	(1) 1 1/2"	30KVA TRANSFORMER SECONDARY
T45P	1	(3) #4	(1) #4	(1) #8	(1) 1"	45KVA TRANSFORMER PRIMARY
T45S	1	(3) #10	(1) #10	(1) #8	(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 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

**ELECTRICAL EQUIPMENT COORDINATION SCHEDULE - MOBILITY 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
BIG ASS FAN #1 - MOB	---	1500 VA	10A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LM	10.12	---	---	30A	2	NEMA 3R	26
BIG ASS FAN #2 - MOB	---	1500 VA	10A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LM	11.13	---	---	30A	2	NEMA 3R	26
EF-MOB	1/10	80 VA	0.4A	120 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LM	1	00	NEMA 3R	26	2	NEMA 3R	26
EH-MOB	---	3000 VA	14.4A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LM	19.21	---	---	30A	2	NEMA 1	26
EW-H-1-MOB	---	8320 VA	40A	208 V	1	1" CONDUIT WITH 3#6 AND 1#8 GROUND	LM	20.22	---	---	60A	2	NEMA 1	26

DATE	BY	NO.	DATE	BY	NO.

19-028.000

PROJECT STATUS  
**CONFIRMANCE SET**

DATE  
MARCH 24, 2023

SHEET  
**ELECTRICAL RISER DIAGRAM & SCHEDULES**

SHEET  
**EM300**





04/07/2023

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MAWFIELD SHED PACKAGE#3  
GULF SHORES, ALABAMA**

**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**

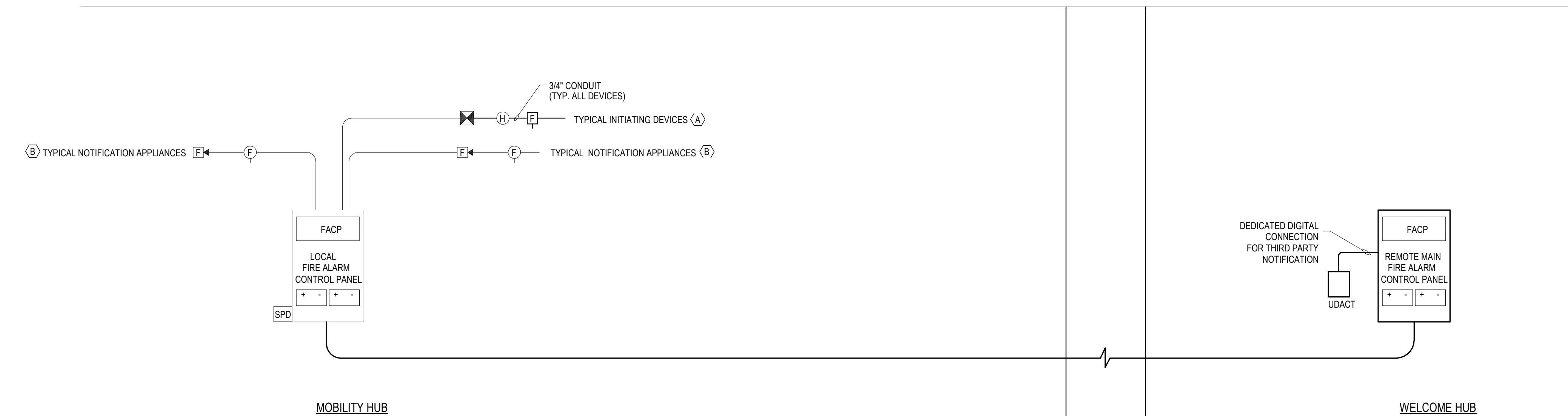
- (A) SIGNALING LINE CIRCUIT: 2 CONDUCTOR #18 AWG, SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE, CLASS B / SURVIVABILITY LEVEL 0
- (B) NOTIFICATION APPLIANCE CIRCUIT: 2 CONDUCTOR #14 AWG, SOLID, SHIELDED CABLE. TYPE "FPLR" CABLE, CLASS B / SURVIVABILITY LEVEL 0
- (C) INITIATING DEVICE CIRCUIT (IDC):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

NO.	DATE	REVISION

JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	FIRE ALARM RISER, DETAILS, AND NOTES
SHEET	EM400



04/07/2023

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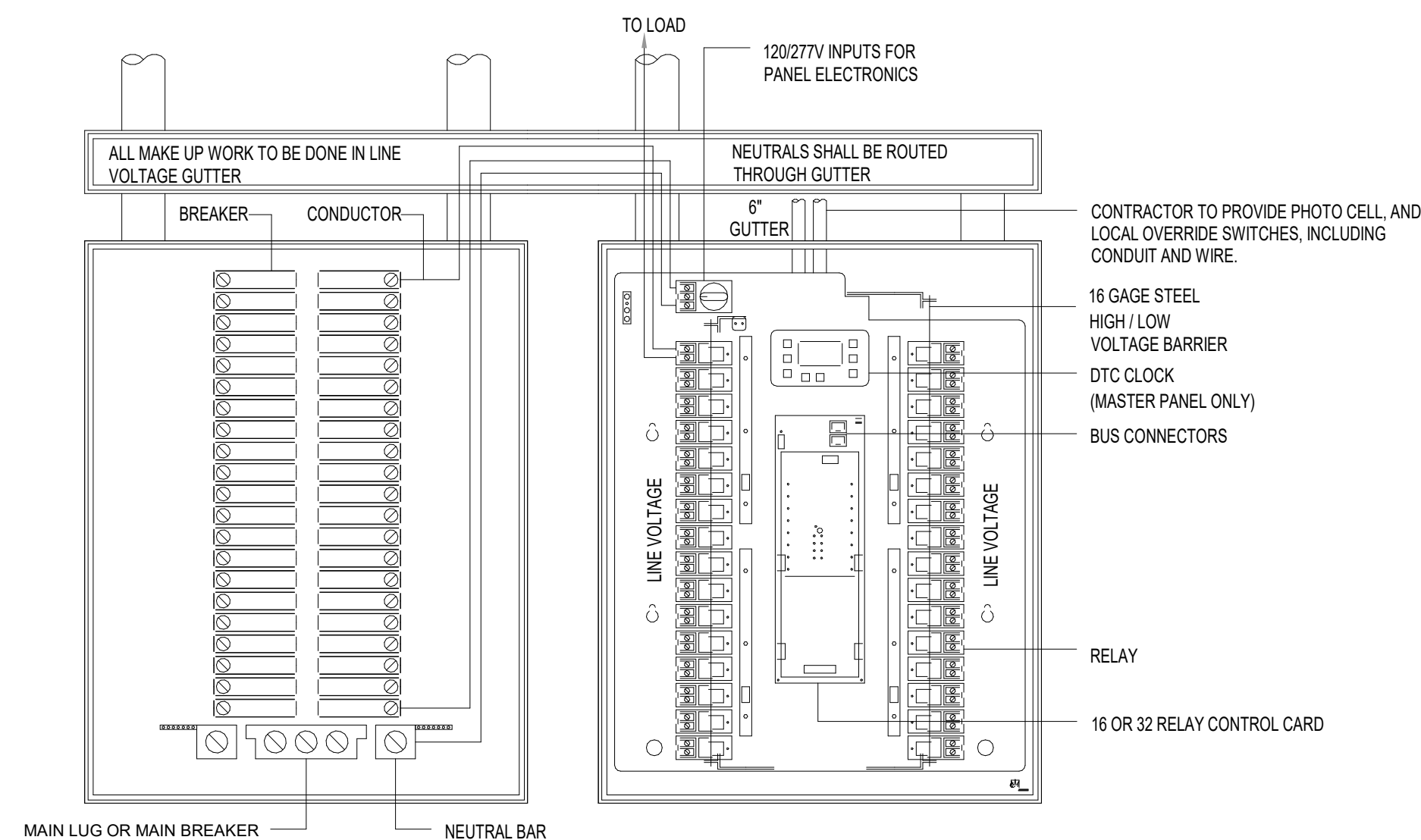
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### LIGHTING CONTROL SYSTEM SPECIFICATIONS

- LIGHTING CONTROL SYSTEM SHALL BE DIGITAL AND CONSIST OF A MASTER LCP WITH UP TO 32 INDIVIDUAL RELAYS, SLAVE LCP'S WITH UP TO 32 INDIVIDUAL RELAYS IN EACH PANEL, A MICRO LCP WITH UP TO 4 INDIVIDUAL RELAYS, WHICH CAN BE SWITCHABLE OR 0-10VDC DIMMABLE, DIGITAL SWITCHES AND DIGITAL INTERFACE CARDS. ALL SYSTEM COMPONENTS SHALL CONNECT IN A "DAISY CHAIN" STYLE CONFIGURATION AND BE CONTROLLED VIA CATEGORY 5 PATCH CABLE WITH RJ45 CONNECTORS, PROVIDING REAL-TIME TWO WAY COMMUNICATION WITH EACH SYSTEM COMPONENT. ANALOG SYSTEMS ARE NOT ACCEPTABLE. ALL CABLES SUPPLIED BY CONTRACTOR.
- RELAY PANELS SHALL BE PRE-WIRED, PRE-ASSEMBLED, PROGRAMMED TO OWNER REQUIREMENTS, AND LISTED TO UL 936 (EMERGENCY LIGHTING RELAYS INTERMIXED). PANELS SHALL BE PROVIDED WITH DUAL VOLTAGE POWER SUPPLY AND 16 GAGE BARRIERS TO SEPARATE HIGH AND LOW VOLTAGE POWER.
- STANDARD RELAYS SHALL HAVE NORMALLY CLOSED (NC) CONTACTS RATED FOR 120/277V 20A TUNGSTEN OR BALLAST. STANDARD RELAYS SHALL BE ZERO-CROSS TYPE, NO EXCEPTIONS. OPTIONAL 600V, 200 POLE RELAY, NO OR NC, AND 347 SINGLE POLE RELAY SHALL BE AVAILABLE.
- RELAY PANEL ELECTRONICS SHALL PROVIDE CURRENT VISUAL STATUS AND CONTROL OF EACH RELAY OR ZONE. ALL SYSTEM CONTROL ELECTRONICS SHALL STORE PROGRAMMING IN A NON-VOLATILE MEMORY AND PROVIDE 10 YEAR BATTERY BACK UP FOR TIME OF DAY.
- LIGHTING CONTROL PANEL SHALL CONSIST OF A MASTER AND SLAVE PANEL(S) CONTROLLED BY A 32-CHANNEL DIGITAL TIME CLOCK (DTC) THAT CONTROLS AND PROGRAMS THE ENTIRE LIGHTING CONTROL SYSTEM. THE DTC SHALL SUPPLY ALL TIME FUNCTIONS AND ACCEPT OTHER INPUTS. THE DTC SHALL ACCEPT CONTROL LOCALLY USING BUILT IN BUTTON PROMPTS AND USE OF AN 8 LINE 21-LETTER DISPLAY, FROM A COMPUTER, MODEM, ETHERNET OR INTERNET. ALL COMMANDS SHALL BE IN PLAIN ENGLISH. HELP PAGES SHALL DISPLAY ON THE DTC SCREEN.
- ALL SWITCHES SHALL COMMUNICATE VIA RS485, CAT 5 PATCH CABLE WITH RJ45 CONNECTORS. CONTACT CLOSURE STYLE SWITCHES ARE NOT ACCEPTABLE. ANY SWITCH BUTTON FUNCTION SHALL BE ABLE TO BE CHANGED LOCALLY (AT THE DTC OR A PC) OR REMOTELY, VIA MODEM, ETHERNET OR INTERNET. REFER TO SINGLE LINE DRAWING FOR WIRING DETAILS. SWITCHES WHICH CANNOT BE PROGRAMMED REMOTELY SHALL NOT BE ACCEPTABLE.
- PHOTOCELL, EXTERIOR (PCO) OR INTERNET (PCI), SHALL PROVIDE READOUT ON THE DTC SCREEN IN NUMBER VALUES ANALOGOUS TO FOOT CANDLES. EACH PHOTOCELL SHALL PROVIDE A MINIMUM OF 14 TRIGGER POINTS. EACH TRIGGER CAN BE PROGRAMMED TO CONTROL ANY RELAY OR ZONE. EACH TRIGGER SHALL BE SET THROUGH DTC, LOCALLY OR REMOTELY. PHOTOCELLS THAT REQUIRE THE USE OF SET SCREWS OR MANUAL ADJUSTMENTS AT THE PHOTOCELL CONTROL CARD SHALL NOT BE ACCEPTABLE.
- STANDARD LIGHTING CONTROL SYSTEM SOFTWARE, PRE-INSTALLED INTO THE DTC, SHALL CONSIST OF AND USE STANDARD GRAPHICAL MANAGEMENT SOFTWARE (GMS) PAGES. GMS SHALL PROVIDE VIA LOCAL OR REMOTE PC A VISUAL REPRESENTATION OF EACH DEVICE ON THE BUS, SHOW REAL TIME STATUS AND THE ABILITY TO CHANGE THE STATUS OF ANY INDIVIDUAL DEVICE, RELAY OR ZONE. OPTIONAL SOFTWARE THAT ACCEPTS JOB SPECIFIC GRAPHICS SHALL BE AVAILABLE. NO EXCEPTIONS.
- TELEPHONE FACTORY DIAL-UP SUPPORT SHALL BE AVAILABLE AT NO ADDITIONAL COST TO THE EC OR OWNER BOTH DURING AND AFTER THE 3 YEAR WARRANTY PERIOD. FACTORY TO PREPROGRAM THE LIGHTING CONTROL SYSTEM PER PLANS AND APPROVED SUBMITTAL. THE LIGHTING CONTROL MANUFACTURER, AT NO ADDED COST, SHALL PROVIDE ADDITIONAL PROGRAMMING VIA MODEM AS REQUIRED BY THE EC OR OWNER FOR THE OPERATIONAL LIFE OF THE SYSTEM. MANUFACTURER WARRANTS THE DTC SOFTWARE CAN BE UPGRADED AND MONITORED REMOTELY. NO EXCEPTIONS.
- SHOP DRAWINGS, SUBMIT DIMENSIONED DRAWINGS OF LIGHTING CONTROL SYSTEM AND ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, RELAY PANELS, SWITCHES, DTC, PHOTOCELLS AND OTHER INTERFACES. DRAWINGS SHALL INDICATE EXACT LOCATION AND PROGRAMMING OF EACH DEVICE. INDICATE ALL TIME SCHEDULES AND SWITCH BUTTON ENGRAVING.
- LIGHTING CONTROL SYSTEM SHALL ACCOMMODATE DAYLIGHT HARVESTING THROUGH DAYLIGHTING SENSORS PLACED THROUGHOUT THE BUILDINGS.

### TYPICAL BRANCH PANELBOARD

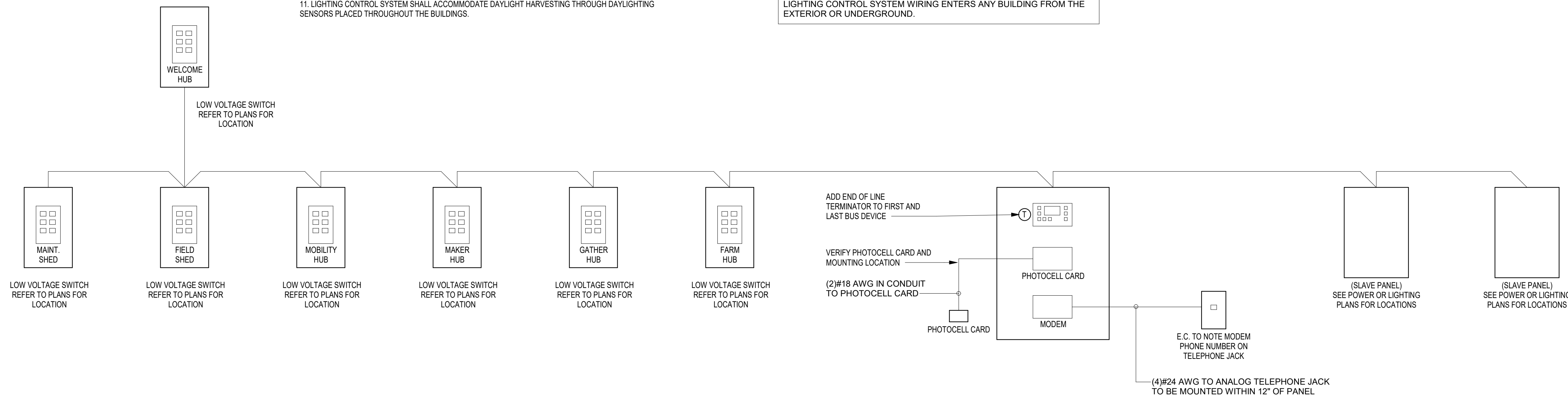
### TYPICAL LIGHTING RELAY PANEL



NOTE: COORDINATE CONTROL ZONE & SWITCHING LAYOUT WITH OWNER PRIOR TO PROGRAMMING & INSTALLATION.

NOTE: CONTRACTOR SHALL PROVIDE SEAMLESS CONNECTIVITY AMONG ALL THE BUILDINGS SHOWN WITH KEYPADS, LIGHTING CONTROL PANELS, AND FIXTURES DESIGNATED WITH RELAY-BASED SWITCH LEGS. PROVIDE SURGE PROTECTION DEVICES (SPD'S) AT ALL POINTS WHERE LIGHTING CONTROL SYSTEM WIRING ENTERS ANY BUILDING FROM THE EXTERIOR OR UNDERGROUND.

NOTE:  
1. ALL LIGHTING ZONES/RELAYS ARE INDIVIDUALLY PROGRAMMABLE, FOR CONTROL BY BUILDING AUTOMATION SYSTEM INTEGRAL ELECTRONIC CLOCK, PHOTOCELL OR MANUAL OVERRIDE.  
2. REFER TO MANUFACTURER PROVIDED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



### OCCUPANCY / VACANCY SENSOR SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	Type Comments
DTL	CEILING MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE OCCUPANCY SENSOR	GREENGATE WATTSTOPPER ACUITY	OAC-DT-2000-MV DT-355 CMR-PDT-9/10	AUTO ON / AUTO OFF - PROVIDE POWER PACKS AND OTHER ANCILLARY ITEMS AS REQUIRED
MT1	WALL-MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE OCCUPANCY SENSOR WITH SINGLE LEVEL CONTROL	GREENGATE WATTSTOPPER ACUITY LEVITON	ONW-D-1001-MV DSW-100 WSX-PDT-XX OSMT-MDW	AUTO ON / AUTO OFF WITH PUSH-BUTTON OVERRIDE
Standard 2				
VL1	WALL-MOUNTED, LINE VOLTAGE, DUAL TECHNOLOGY VACANCY SENSOR WITH SINGLE LEVEL CONTROL	GREENGATE WATTSTOPPER ACUITY LEVITON	VNW-D-1001-MV DSW-100 WSX-PDT-SA-XX OSSMD-MDW	MANUAL ON / AUTO OFF WITH PUSH-BUTTON OVERRIDE

### LIGHTING CONTROL RELAY SCHEDULE - MOBILITY HUB

Relay Number	Panel	Circuit Number	Switch Type	Controlled By	Zone Designation	Note	Voltage	Area Controlled
1	LM	16	RELAY	ASTRONOMICAL TIME-CLOCK WITH KEYPAD OVERRIDE	M8			MOBILITY HUB EXTERIOR LIGHTING

Date	By	Job
		19-028.000

PROJECT STATUS  
**CONFORMANCE SET**

DATE  
**MARCH 24, 2023**

SHEET  
**LIGHTING CONTROLS, NOTES, AND SCHEDULES**

SHEET

**EM401**



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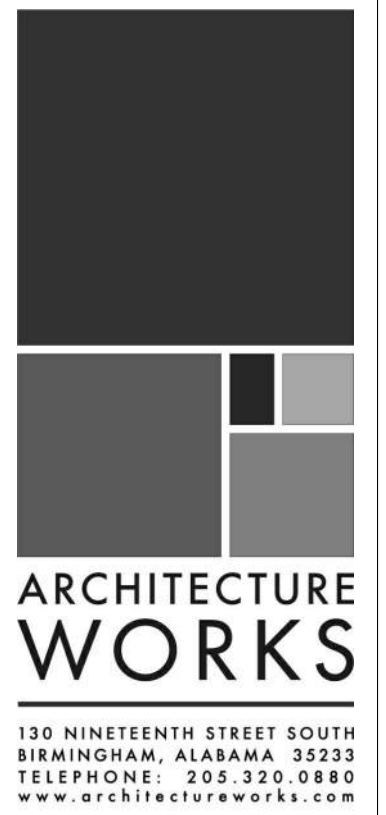
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### LIGHTING FIXTURE SCHEDULE

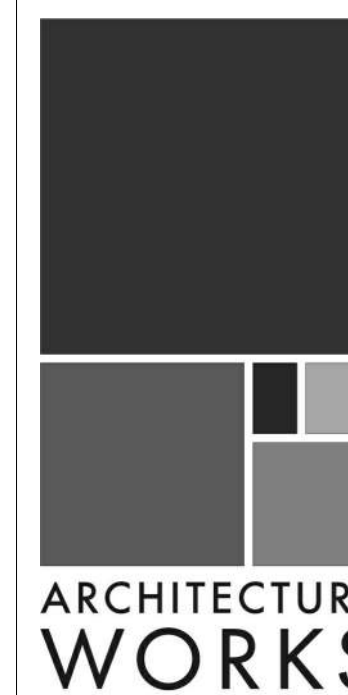
TYPE	DESCRIPTION	MANUFACTURER	MODEL	TYPE	COMMENTS
F	ARCHITECTURAL GRADE CEILING FAN	BY ARCHITECT	SELECTIONS BY ARCHITECT	LED	CEILING FANS TO BE SELECTED BY THE ARCHITECT. LINE ITEM SHOWN FOR REFERENCE ONLY.
LF1	4" LED TUNABLE WHITE DOWNLIGHT	ALPHABET PORTFOLIO BOLD	NU4-RD-TW-13LM-2765-95-HE45-UNV-MOUNTING-COLOR LD4B15DE010W2N2765 EU4B1020W2N902765 4LBXXX CRF4-NIC-T-U-S-0-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 UMV-30002-20W-N-W35 FCC400-11-1MM-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" DECORATIVE 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/CL-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-S350D935-XX4F0-1-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 LIGHTEADED	24917 35K UMO-80012-21W-W-W35 2-116-T-04-BRO36-35-8014-WET / D4B-FV/R-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 S122MDP-C350D935-XX-XX4F0-1-UDD-F S2LS-LP-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	LECXRX-FINISH-E EUX/RXX QL2-SA-LR-12-C-OR-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.7252WMOD35K-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 FC81690-UNV-42-4K-19L-FINISH 89977 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 L0641-L1L15-R2-LQP669-120277-FINISH	LED	VERIFY FINISH WITH ARCHITECT.

Job No.	19-028.000
Project Status	CONFORMANCE SET
Date	MARCH 24, 2023
Sheet	LIGHTING FIXTURE SCHEDULE
Sheet No.	EM402



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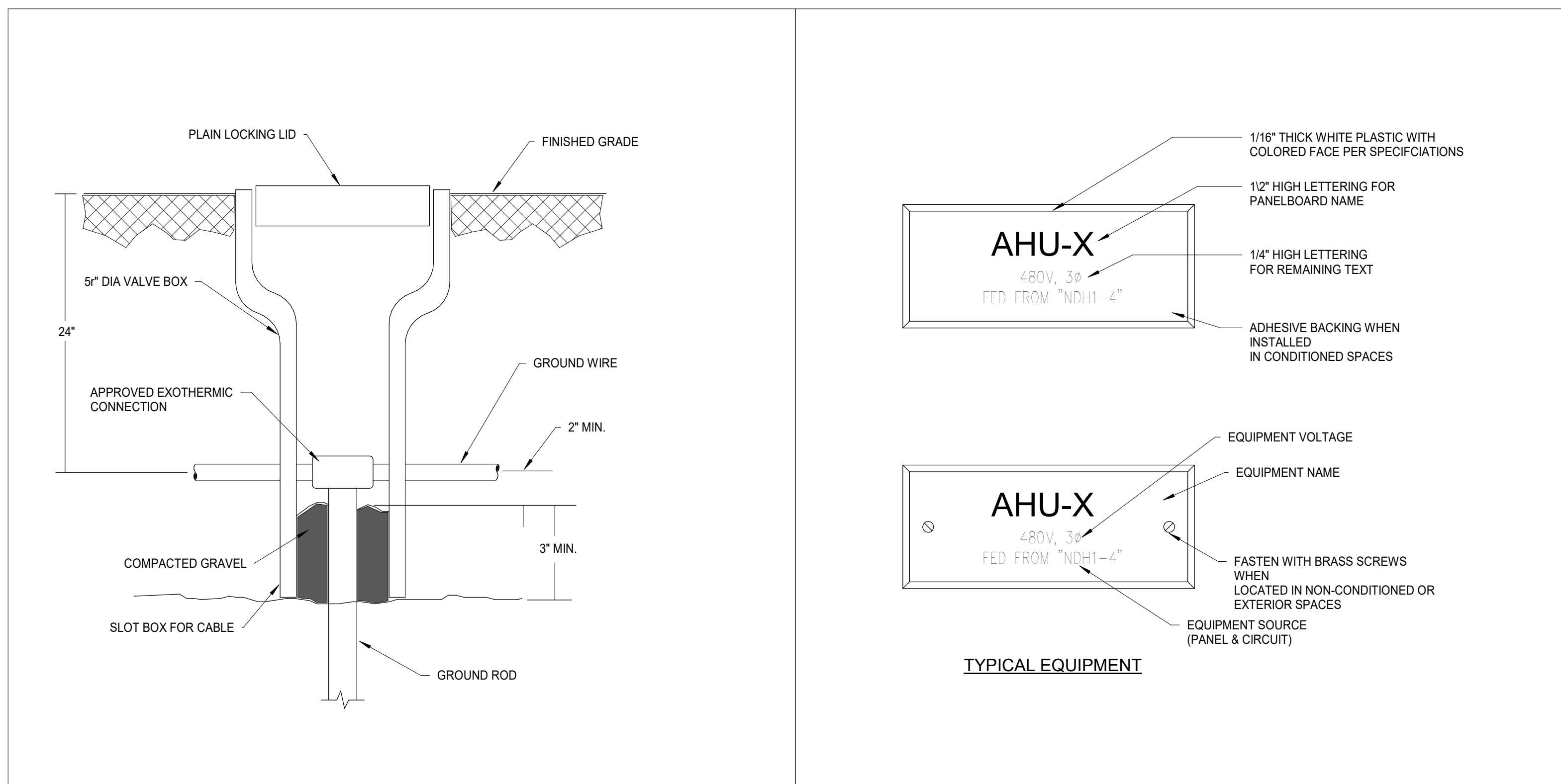


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**GULF COAST CENTER**  
FOR ECOTOURISM & SUSTAINABILITY  
MAWFIELD SHED PACKAGE  
GULF SHORES, ALABAMA

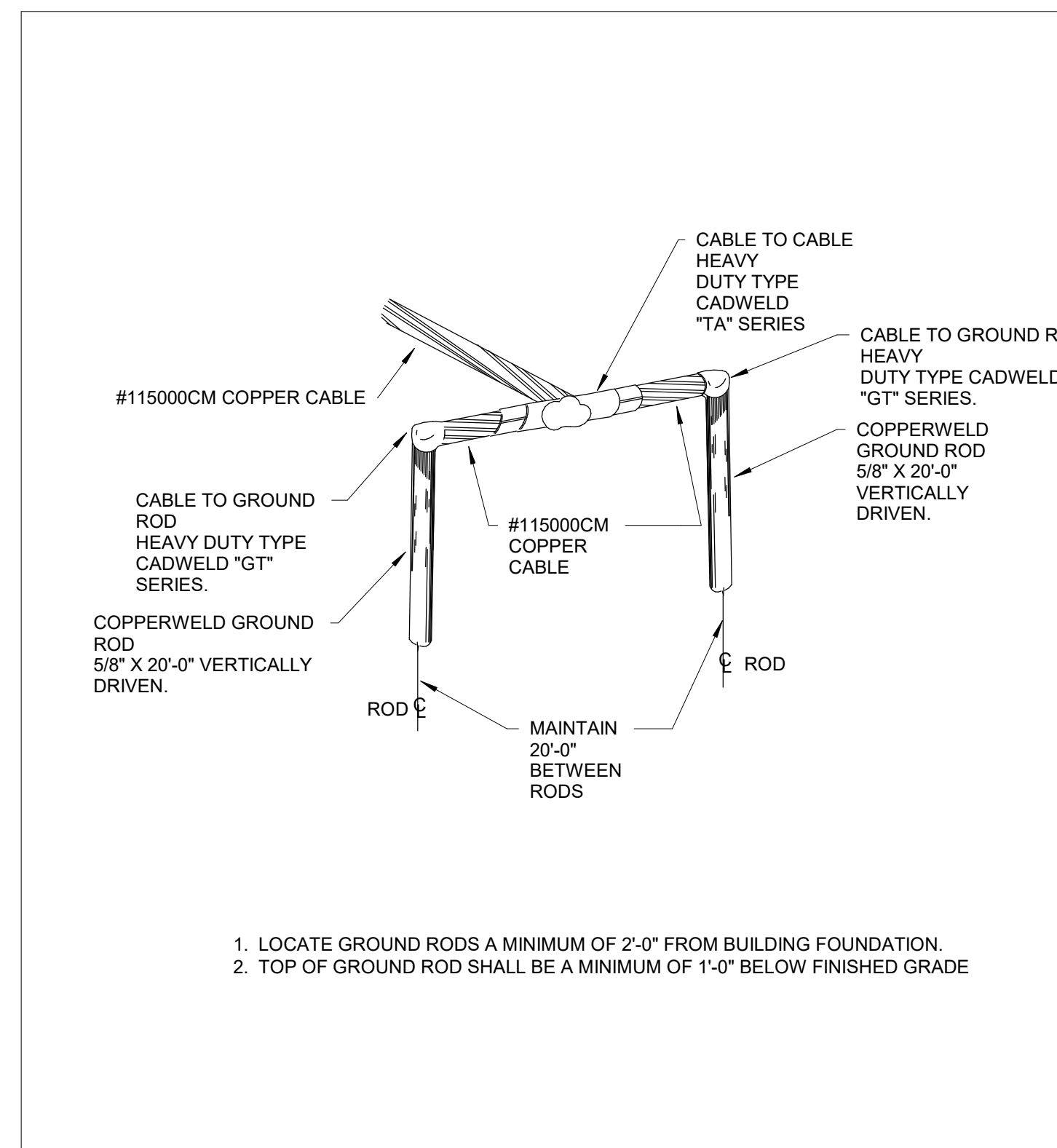


**GND. ROD INSPECTION WELL AT ALL ROD LOCATIONS**  
No Scale

2

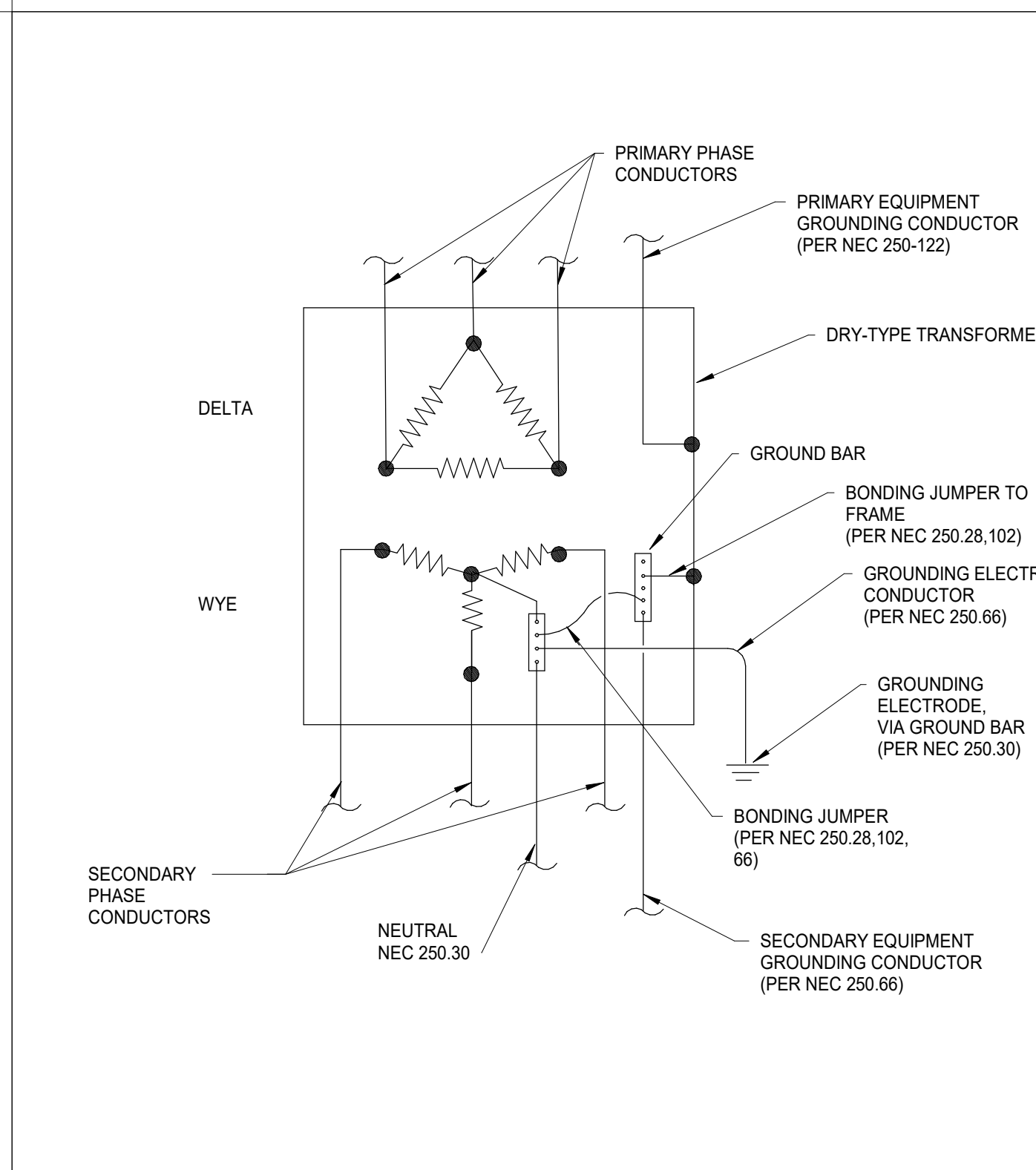
**EQUIPMENT NAMEPLATE DETAIL**  
No Scale

1



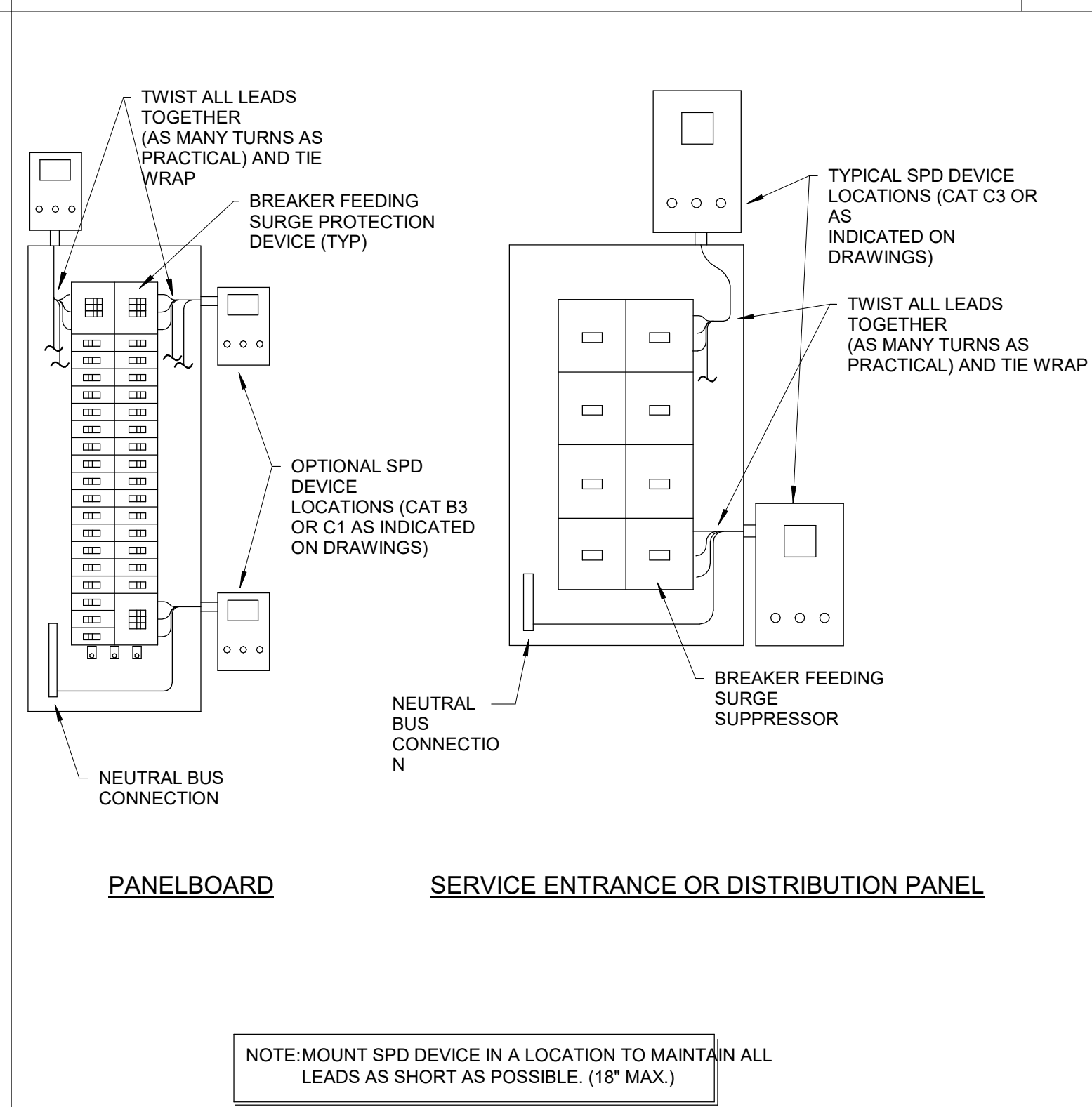
**TYP. GROUND ROD CONNECTION**  
No Scale

5



**STEP DOWN TRANSFORMER GROUNDING**  
No Scale

4



**SPD EXTERIOR MOUNT INSTALLATION**  
No Scale

3

No.	
Date	
Revision	
Description	

JOB  
**19-028.000**

PROJECT STATUS  
**CONFORMANCE SET**

DATE  
**MARCH 24, 2023**

SHEET  
**ELECTRICAL DETAILS**

SHEET  
**EM500**



04/07/2023

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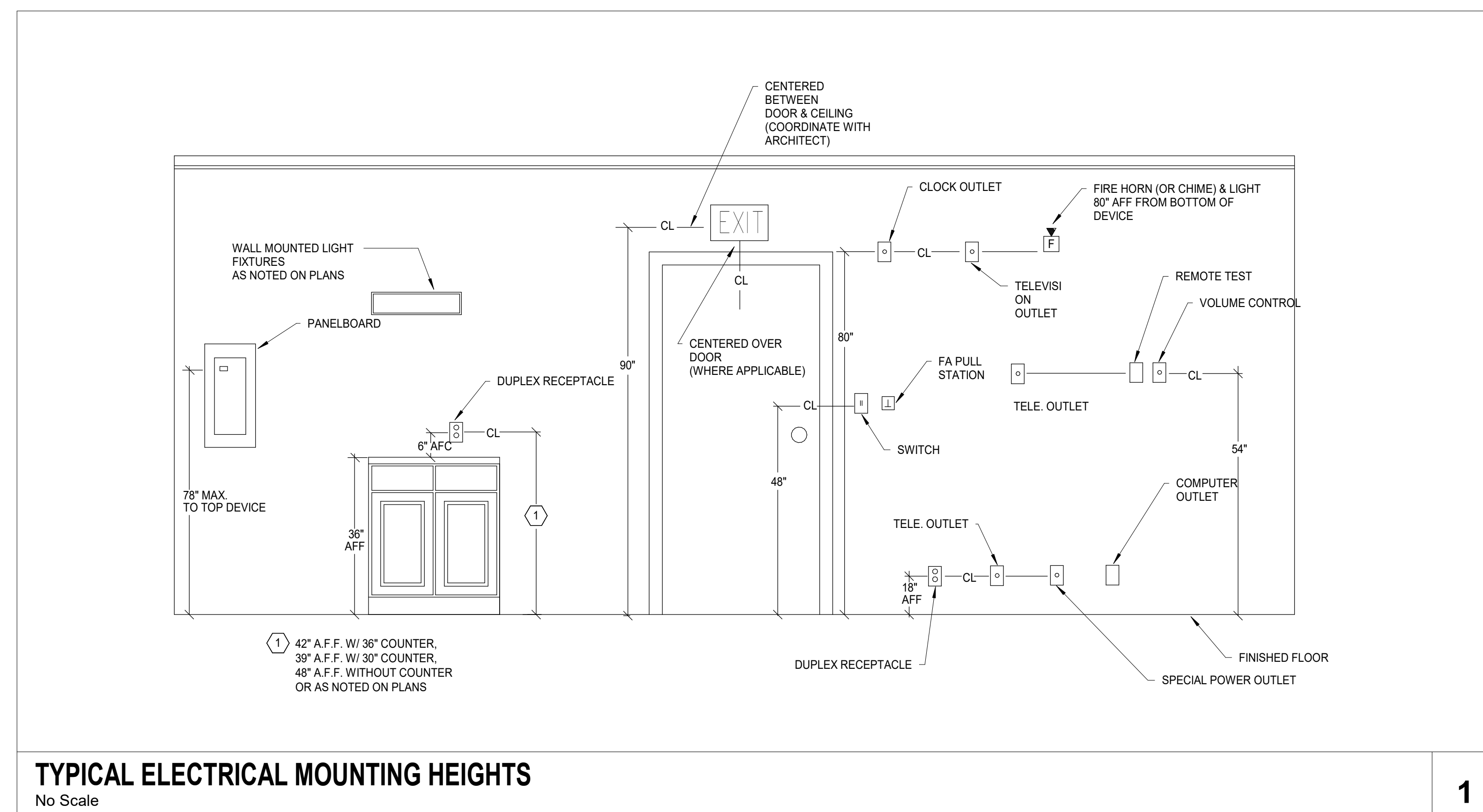
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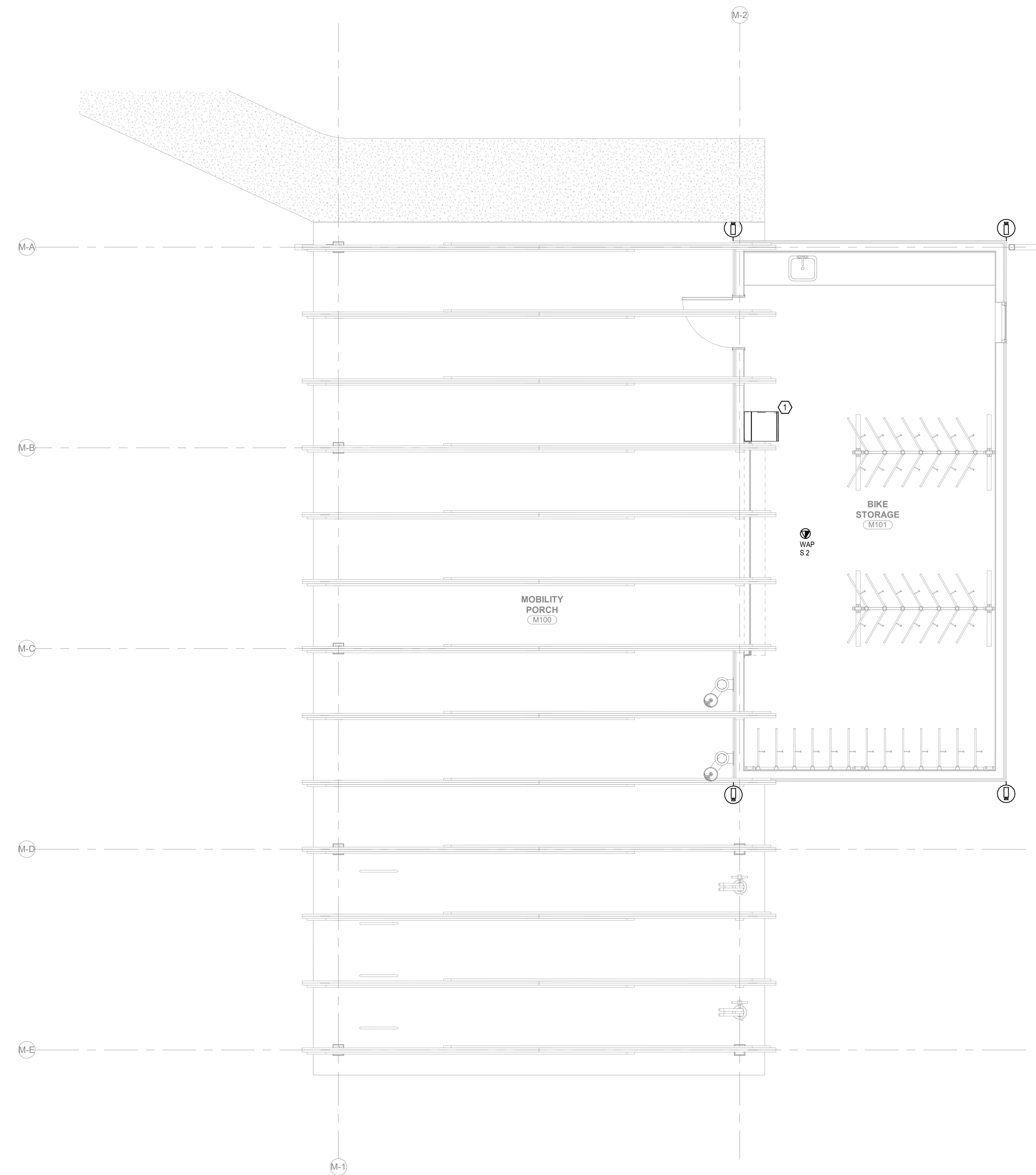
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**GULF COAST CENTER**  
FOR ECOTOURISM & SUSTAINABILITY  
MAWFIELD SHED PACKAGE#3  
GULF SHORES, ALABAMA



INT. NO.	
REVISION	
DATE	
NO.	
JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	ELECTRICAL DETAILS
SHEET	EM501

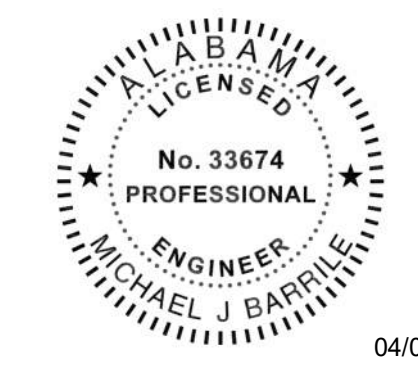




**TECHNOLOGY KEYED NOTES**

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

**TLC ENGINEERING SOLUTIONS**  
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 Fort Myers, FL 33907  
 P 239.275.4240  
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**THINK. LISTEN. CREATE.**



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

NO.	DATE	REVISION

JOB	<b>19-028.000</b>
PROJECT STATUS	<b>CONFORMANCE SET</b>
DATE	<b>MARCH 24, 2023</b>
SHEET	<b>MOBILITY HUB TECHNOLOGY FLOOR PLAN</b>
SHEET	<b>TM100</b>

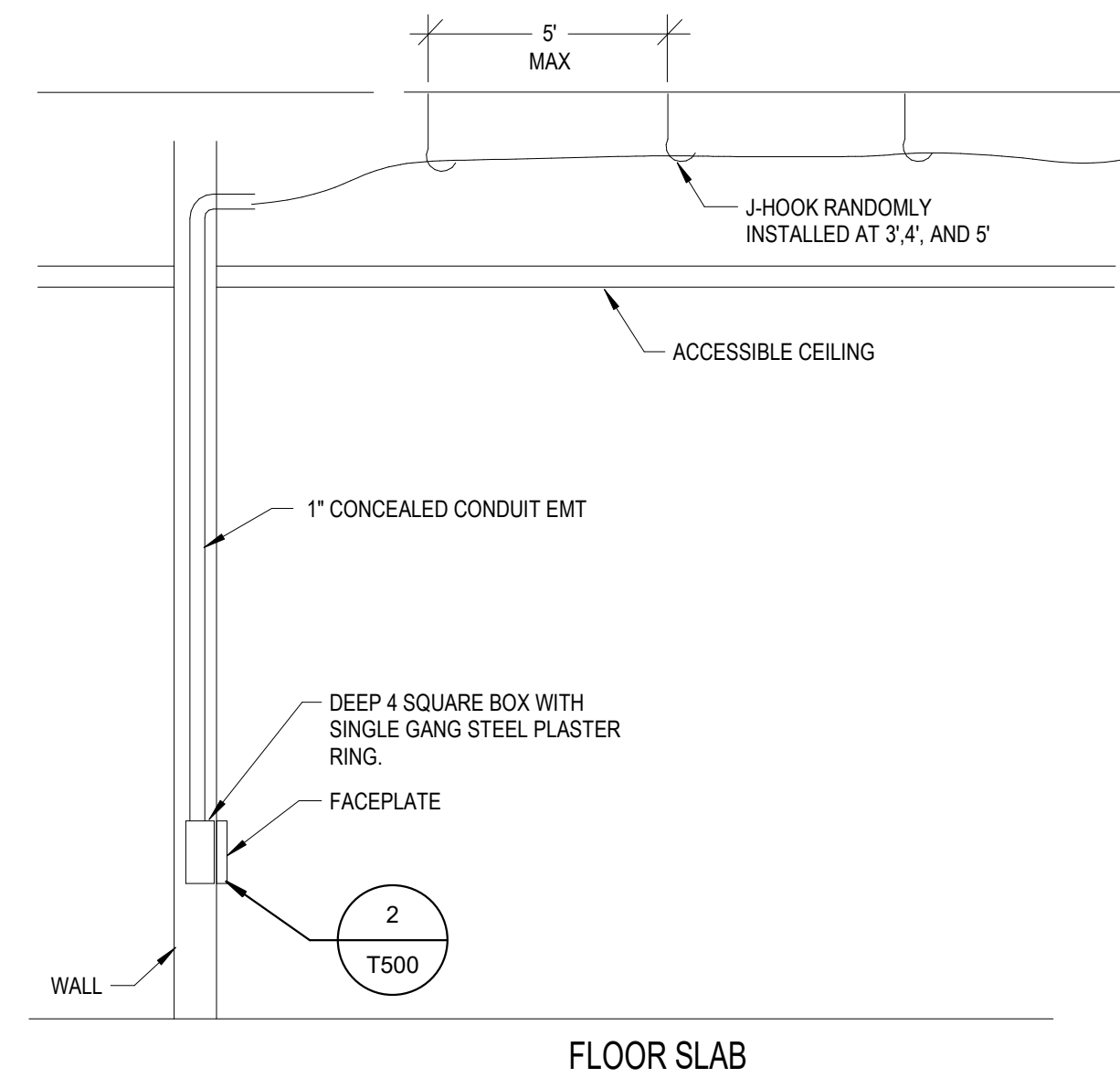
**LEVEL 1 - MOBILITY HUB - TECHNOLOGY**  
 ① 1/4" = 1'-0"



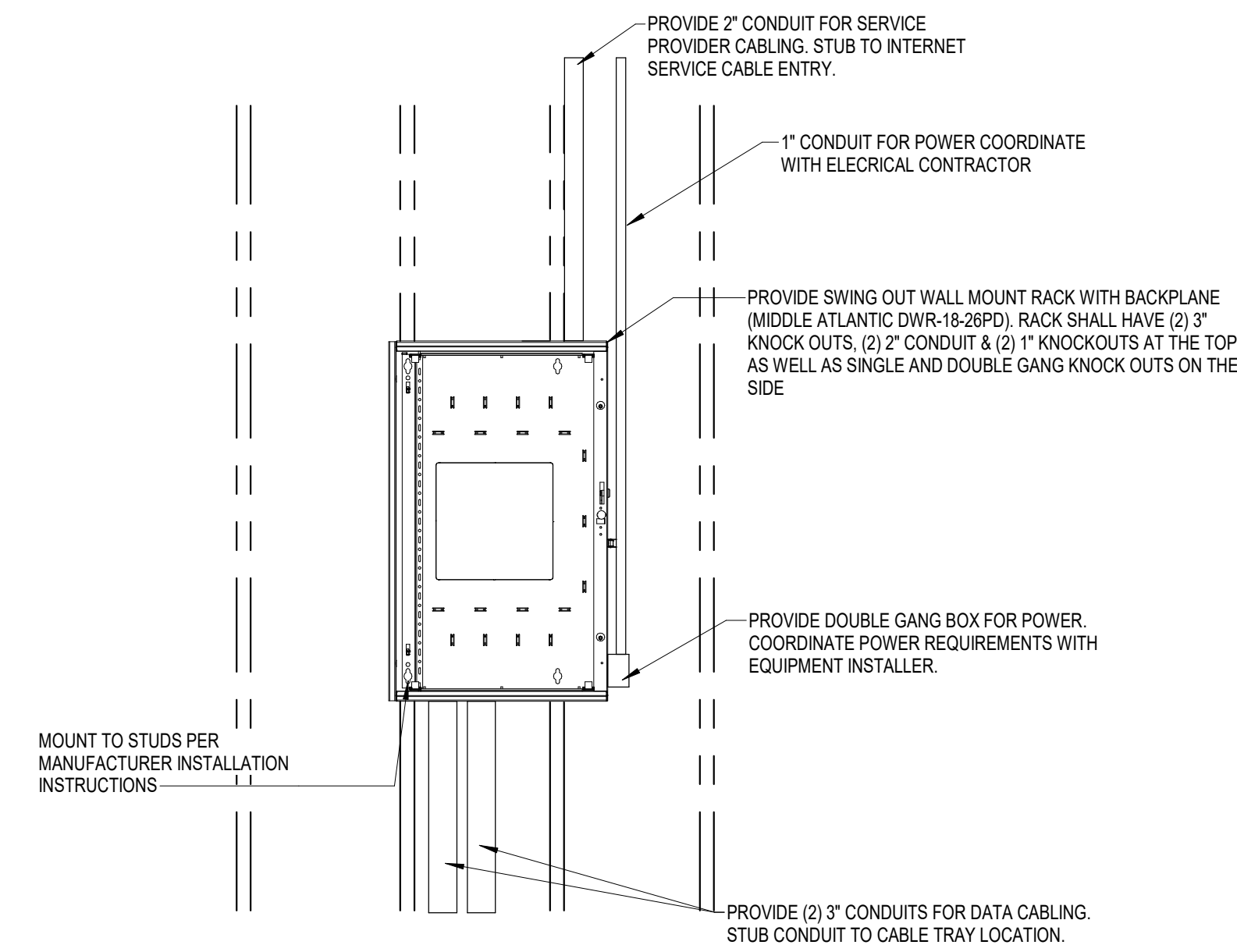
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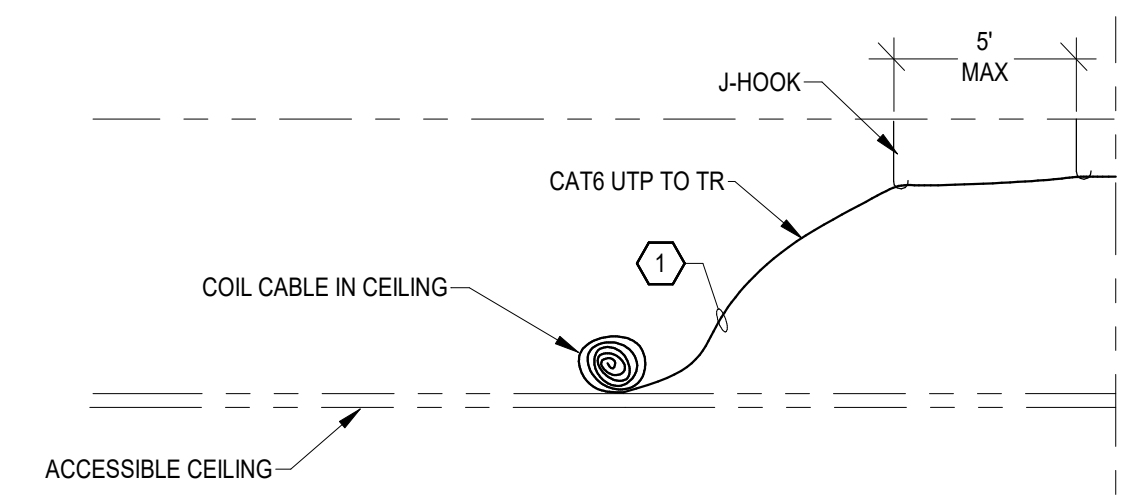
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**1** TYPICAL FLUSH MOUNT  
OUTLET (CONCEALED  
CONDUIT) - MOBILITY  
12" = 1'-0"



**2** WALL MOUNTED RACK DETAIL -  
MOBILITY  
3/4" = 1'-0"



**3** WIRELESS ACCESS POINT  
(COILED IN CEILING) - MOBILITY  
1" = 1'-0"

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

NO.	DATE	REVISION

JOB: **19-028.000**

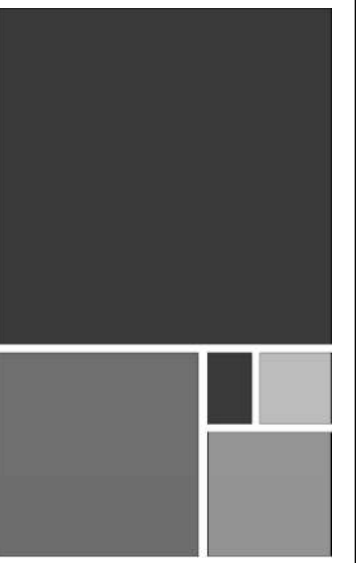
PROJECT STATUS: **CONFORMANCE SET**

DATE: **MARCH 24, 2023**

SHEET: **TECHNOLOGY  
DETAILS**

SHEET: **TM500**





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Rev.	Description	Date

JOB  
19-028.000

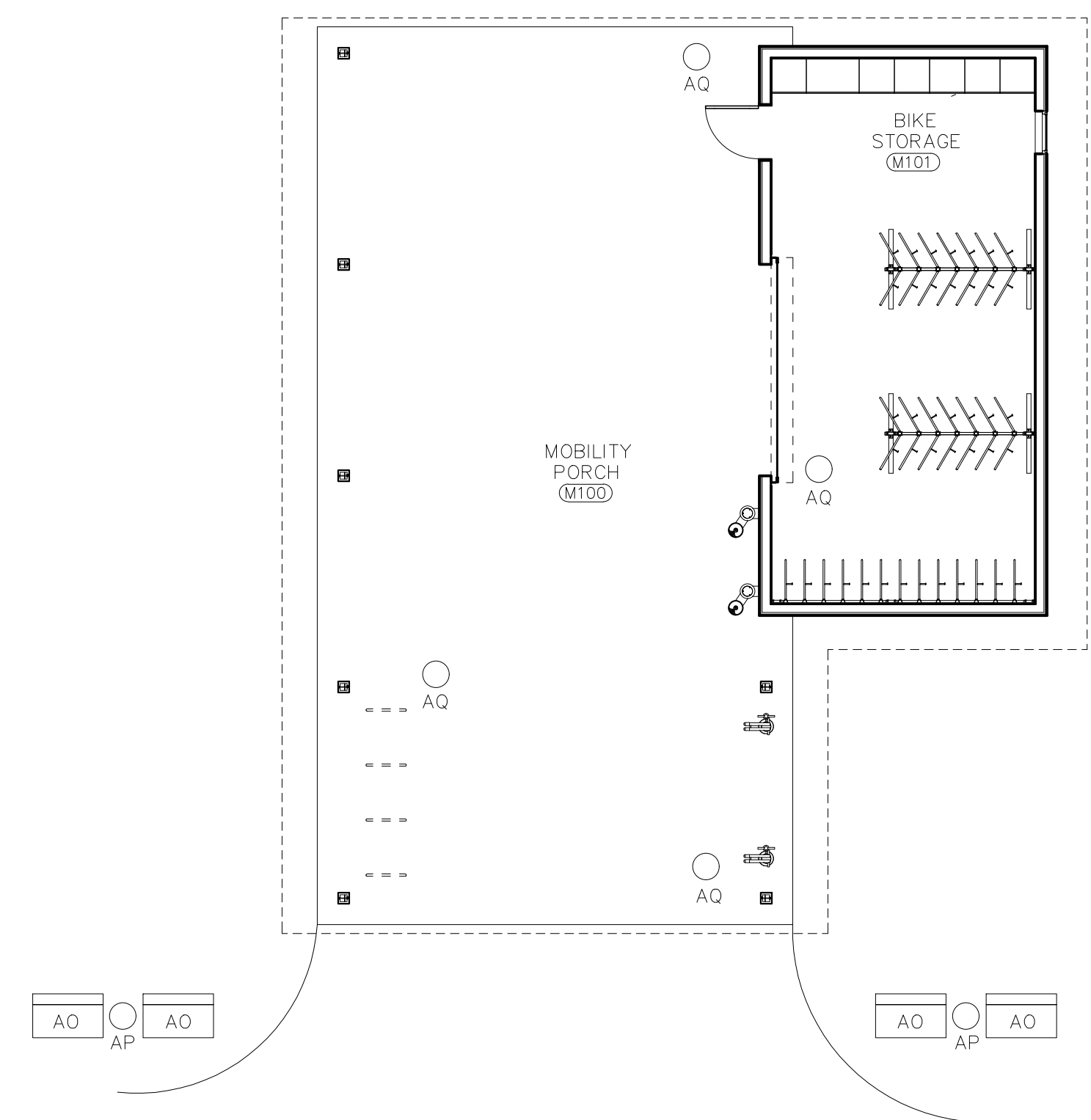
PROJECT  
STATUS  
CONFORMANCE SET

DATE  
MARCH 24, 2023

SHEET NAME  
FURNITURE PLAN

SHEET NO.  
IDM100

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



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