

RANGE ENTRY TO BE CONTROLLED ENTRY: DOORS NORMALLY CLOSED AND UNLOCKED. OPENING EITHER DOOR, MANUALLY OR BY USING ADA OPERATOR, IN SEQUENCE WILL CAUSE THE OTHER DOOR TO LOCK UNTIL THE OPENED DOOR RETURNS TO ITS NORMAL (CLOSED) STATE. RED AND GREEN LED'S LOCATED AT EACH DOOR WILL INDICATE THE DOOR STATUS (GREEN = UNLOCKED, RED = LOCKED). LOCAL PULL STATIONS WILL OVERRIDE THE INTERLOCK BY REMOVING POWER TO THE LOCK.

1 MAIN FLOOR CODE PLAN
1/16" = 1'-0"

Function of Space

- ACCESSORY MECHANICAL
- ACCESSORY STORAGE
- ASSEMBLY: UNCONCENTRATED
- BUSINESS
- GUN RANGE
- UNOCCUPIED

Energy Efficiency [ASHRAE 90.1-2013]			
Climate Zone	Space Category	Compliance Path	
[Table B1-1] 7	[Section 5.1.2] Nonresidential	[Section 5.2] Prescriptive	
Code	Component		
[Table 5.5.7]	Building Envelope	Assembly Max.	Insulation Min. Provided
	Clubhouse (Wood Framed)		
	Roof	U-0.028	R-60
	Walls, Above Grade	U-0.017	R-13+R7.5 C.I. R-13+R9 C.I.
	Range (Masonry)		
	Roof	U-0.028	R-36 C.I. R-36 C.I.
	Walls, Above Grade	U-0.017	R-15.2 C.I. R-24 C.I.
	Entire Building		
	Walls, Below Grade	C-0.063	R-15 C.I. R-16 C.I.
	Floors	N/A	N/A
	Slab-on-Grade Floors	F-0.671	R-25 FOR 48 IN. R-25 FOR 48 IN.
	Opaque Doors	U-0.500	U-0.500
[Table 5.5.5]	Fenestration	Assembly Max.	Max. SHGC Min VT/SHGC Provided
	Vertical Fenestration, 0% - 40%	Fixed U-0.38 Operable U-0.40	SHGC-0.45 1.10
	Metal Framing	U-0.77	

Summary of Governing Regulations				
Jurisdiction	Local	State	Remarks	
Code-Enforcement	State of Michigan - LARA	Michigan		
Code	Title	Edition	Local Amendment (Y/N)	
Building Code	Michigan Building Code	2015	No	-
Accessibility Code	ICC A117.1	2009	No	-
Mechanical Code	Michigan Mechanical Code	2015	No	-
Electrical Code	National Electric Code	2017	No	-
Plumbing Code	Michigan Plumbing Code	2015	No	-
Boiler Code	Michigan Boiler Code	2015	No	-
Energy Code	Michigan Uniform Energy Code	2015	No	-
Fuel Gas Code	International Fuel Gas Code	2015	No	-
Life Safety Code	NFPA 101	2012	No	-

General Building Summary

Project Description

The Lake Superior Sportsman's Club leases and operates an existing clubhouse, indoor gun / archery range, along with outdoor gun ranges (rifle, pistol and shotgun), for the benefit of members and the general public. LSSC operates from property, approximately 140 acres, owned by the Department of Natural Resources, as a part of the Porcupine Mountains Wilderness State Park.

As a cooperative initiative, the DNR has partnered with the Lake Superior Sportsman Club, to develop an improved shooting complex within the 140-acre parcel. As part of the master plan, a new facility will be constructed and include the new clubhouse with indoor range, meeting space, and office space for club personnel. The gun range will be equipped to support 6 lanes and 75 foot target range. To support this facility, connection to municipal water and a new septic system is part of project.

Project Summary

Chapter	Use & Occupancy Classification	A-2, A-3, B	MIXED USE NON-SEPARATED
[Chapter 5]	General Building Heights & Areas	Allowed:	Actual:
	Height:	40'-0"	22'-0"
	Stories:	1	1
	Area:	10,500 SF	6,500 SF
	Frontage Increase:	4,500 SF	
[Chapter 6]	Types of Construction	VB	

Mixed Use & Occupancy

Code	Type	Occ. Groups	Remarks
[Chapter 3]	Use & Occupancy Classification	A-2, A-3, B, S-1	MIXED USE NON-SEPARATED
[Section 508.2]	Accessory Occupancies	S-1	WITH ACCESSORY SPACES
[Section 508.3]	Nonseparated Occupancies	A-2, A-3, B	

Fire-Resistance Ratings

Code	Element	Rating	Assembly	Remarks
[Table 601] [Section 706]	Primary Structural Frame	0	-	-
[Table 601] [Section 705] [Table 705.8]	Exterior Bearing Walls	0	-	-
[Table 601]	Interior Bearing Walls	0	-	-
[Table 602]	Ext. Nonbrg X < 5'	0	-	-
[Table 602]	5' < X < 10'	0	-	-
[Table 602]	10' < X < 30'	0	-	-
[Table 602]	X > 30'	0	-	-
[Table 601] [Section 711]	Floors	N/A	-	-
[Table 601] [Section 711]	Roof	0	-	-
[Table 705.8]	Exterior Wall Openings	N/A	-	-

Fire Protection Systems

Code	System	Remarks
[Section 903]	Automatic Sprinkler System	NS
[Section 906]	Portable Fire Extinguishers	YES
[Section 907]	Fire Alarm and Detection System	NO
[Section 908]	Emergency Alarm System	NO
[Section 912]	Fire Department Connection	NO
[Section 914]	Emergency Responder Safety Features	NO
[Section 915]	Carbon Monoxide Detection	NO
[Section 916]	Emergency Responder Radio Coverage	Shall be provided

NS Buildings not equipped throughout with an automatic sprinkler system
 S1 Buildings a maximum of one story above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1
 SM Buildings two or more stories above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1
 S13R Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2
 S13D Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3

Means of Egress Non-Sprinklered

Code	Occupant Load	Count
[Table 1004.1.2]	Total Occupant Load	150
Egress Sizing		
[Section 1005.3.2]	Other Egress Components	0.2
[Table 1006.3.1]	Minimum Number of Exits per Floor	1-500 Occ. = 2 3
[Section 1010.1.1]	Minimum Egress Door Width per Floor	0.2 x 150 = 32" 34" (2' - 10")
Maximum Travel Distances		
[Table 1017.2]	Exit Access Travel Distance	200' max 53' - 0"
[Table 1006.2.1]	Common Travel Distance	75' max 25' - 0"

Plumbing Fixture Tabulation Occupancy: A-2 Restaurants, Banquet Halls, Food Courts

	Water Closets		Lavatories		Bathrooms / Showers	Drinking Fountains	Other	Remarks
	Male	Female	Male	Female				
150 occ.	1 per 75	1 per 75	1 per 200	1 per 200	--	1 per 500	1 Service Sink	
Required	1	1	1	1	0	1		
Provided	1	1	1	1	0	2	1 Service Sink	

CODE PLAN LEGEND

- NUMBER OF OCCUPANTS
- ACTUAL EGRESS OCCUPANT LOAD
- ALLOWABLE EGRESS OCCUPANT LOAD
- TRAVEL DISTANCE TO NEAREST EXIT
- PATH OF TRAVEL:
- COMMON TRAVEL DISTANCE
- MAXIMUM DIAGONAL DISTANCE & REQUIRED EXIT SEPARATION
- EXIT SEPARATION DISTANCE
- EXIT SEPARATION DISTANCE

PORTABLE FIRE EXTINGUISHERS

MULTI-PURPOSE CHEMICAL (CLASS ABC)	FIRE EXTINGUISHERS		FIRE EXTINGUISHER CABINET	
	FE	FEC	FE	FEC

OHM
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OHM PROJECT No.



STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ROBERT C. HALL, RA, NCARB, DIRECTOR

CODE COMPLIANCE PLAN
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

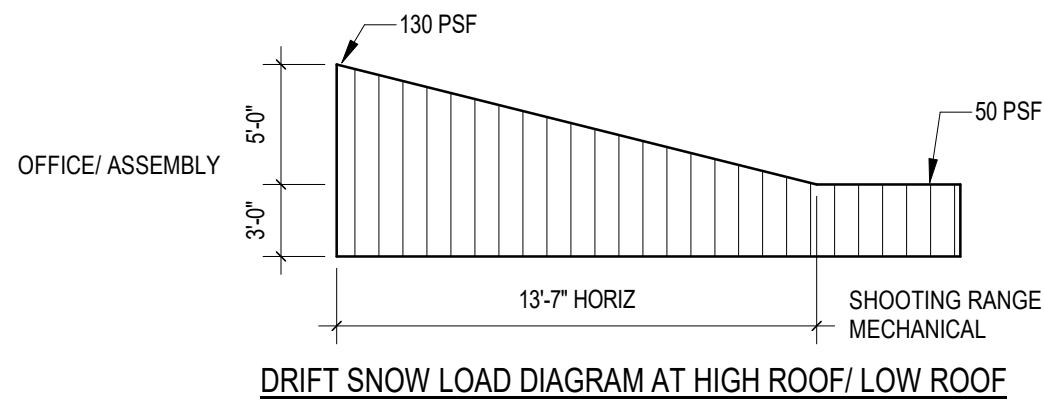
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G-101		0860-17-0010	<input checked="" type="checkbox"/>	03/10/2021	CO	TD		

STRUC. ABBR.

Table of structural abbreviations including A (AND), ALUM (ALUMINUM), AP (ACCESS PANEL), BF (BOTH FACES), CIP (CAST-IN-PLACE), etc.

STRUC. ABBR.

Table of structural abbreviations including NA (NOT APPLICABLE), NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), OBC (OHIO BUILDING CODE), etc.



DRIFT SNOW LOAD DIAGRAM AT HIGH ROOF/ LOW ROOF

DRAWING SYMBOLS

Comprehensive drawing symbols section including View References, Notes & Annotations, Connection Types, Building Elements, and System Specific Symbols.

BUILDING LOADS BUILDING CLASSIFICATION II

Table of building loads including Live Loads, Snow Loads, Wind Loads, Earthquake Design Data, and Miscellaneous Design Data.

GENERAL NOTES - STRUCTURAL

- 1. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS OCCUR BETWEEN DOCUMENTS, THE STRICTEST PROVISION SHALL GOVERN.

OHM ARCHITECTS ENGINEERS PLANNERS logo and contact information.



STRUCTURAL NOTES AND SYMBOLS

SHOOTING COMPLEX

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

WESTERN PENINSULA SHOOTING FACILITY

Table with columns for SHEET, IDENTIFICATION NO., PROJECT FILE NUMBER, ACCOUNTING TEMP., DATE, DESIGNED, DRAWN, CHECKED, APPROVED.

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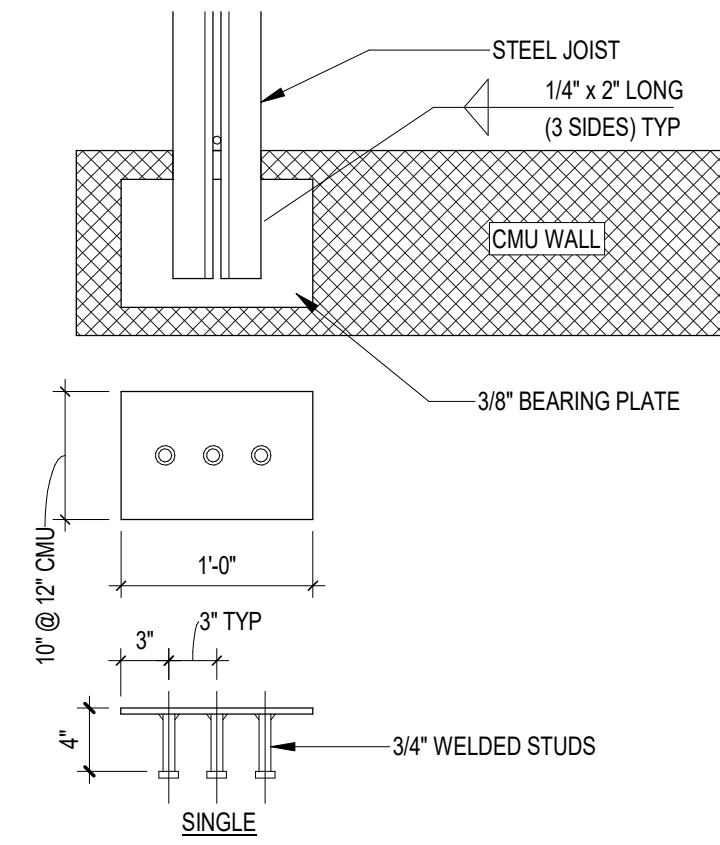
STATE OF MICHIGAN
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DEPARTMENT OF NATURAL RESOURCES
MICHIGAN

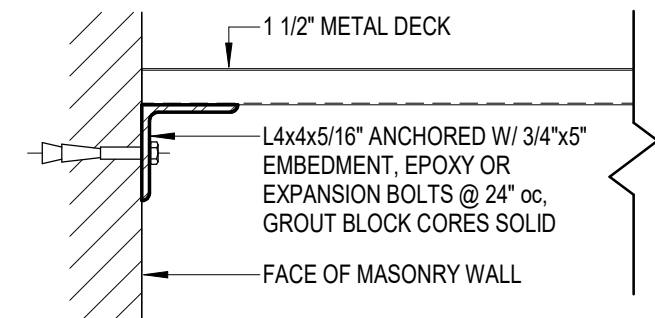
STRUCTURAL STANDARD DETAILS

SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

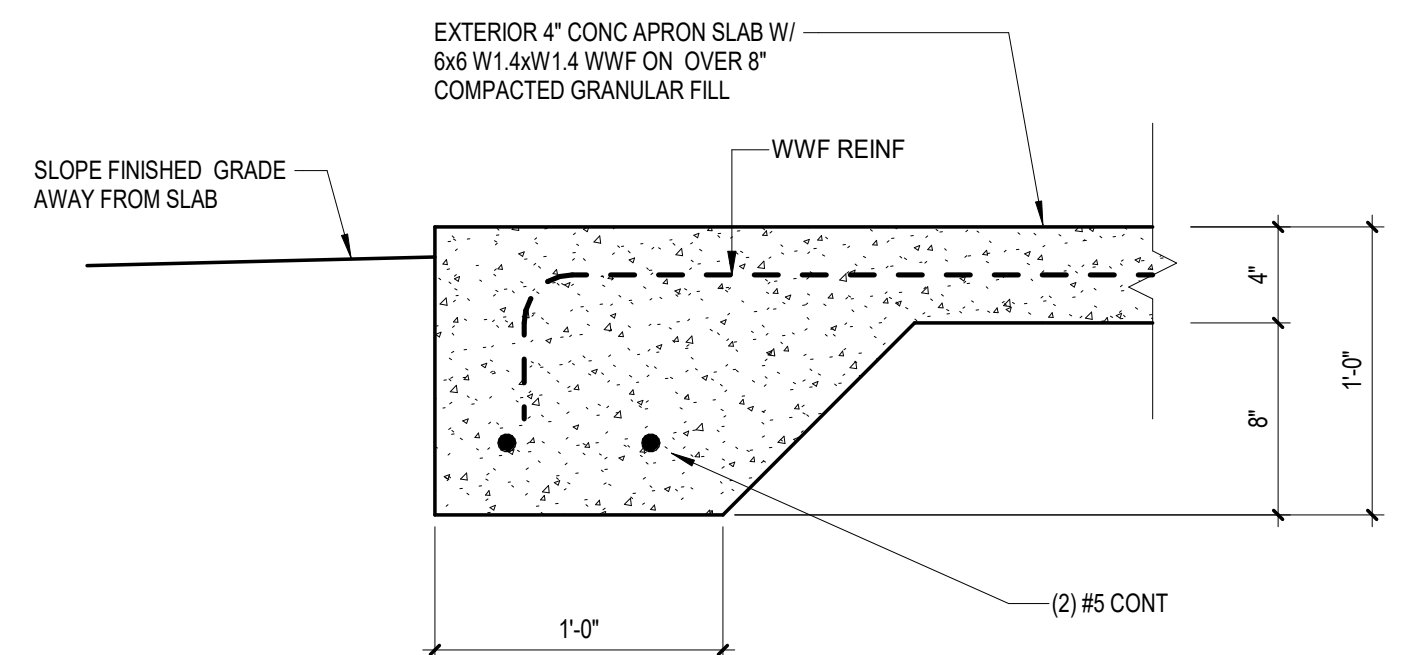
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S-003				CONSTRUCTION		CHECKED	JB
				FINAL RECORD		APPROVED	CO



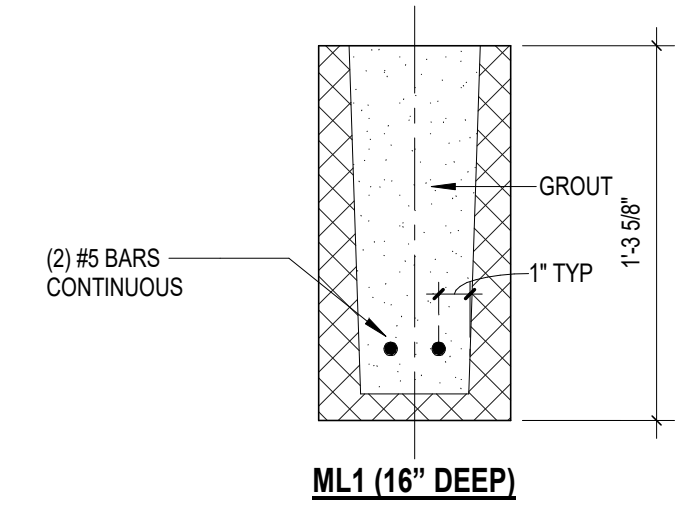
15 SINGLE JOIST BEARING PLATE
1" = 1'-0"



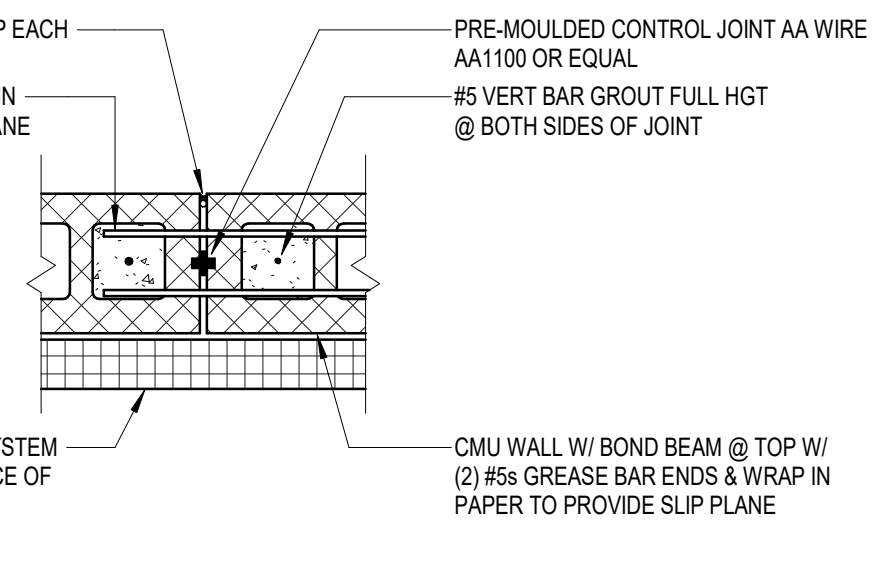
16 DA-1 SUPPORT ANGLE
1 1/2" = 1'-0"



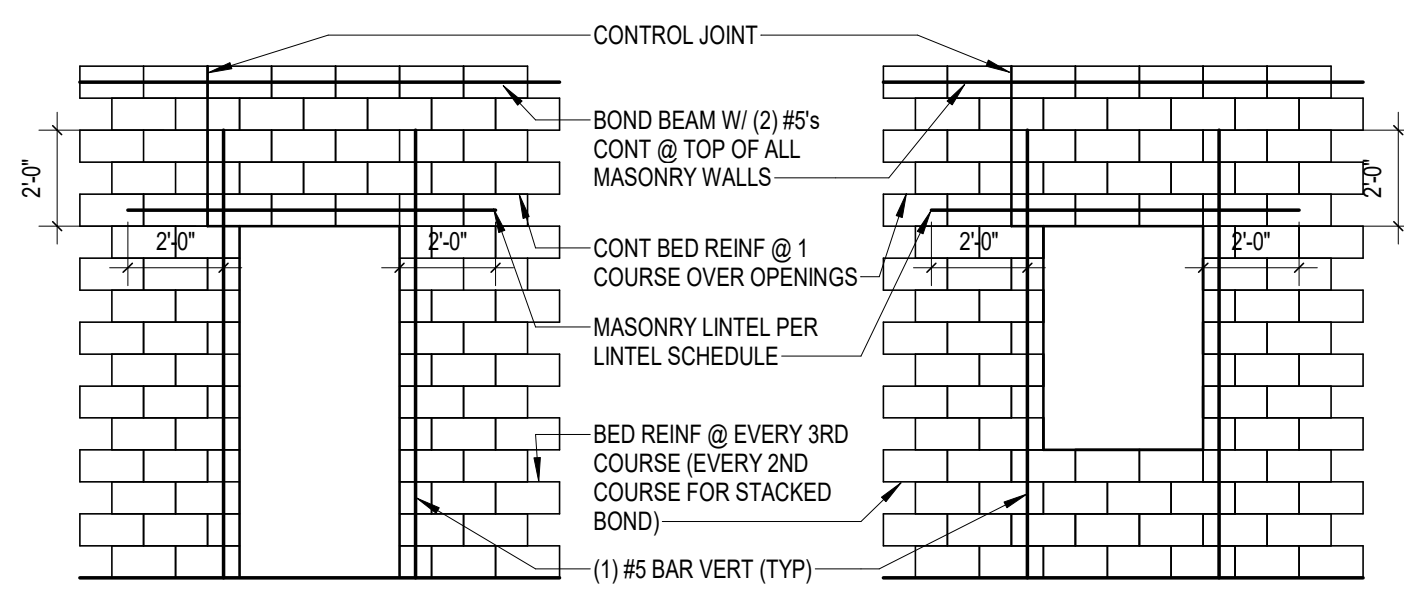
17 THICKENED SLAB EDGE
1 1/2" = 1'-0"



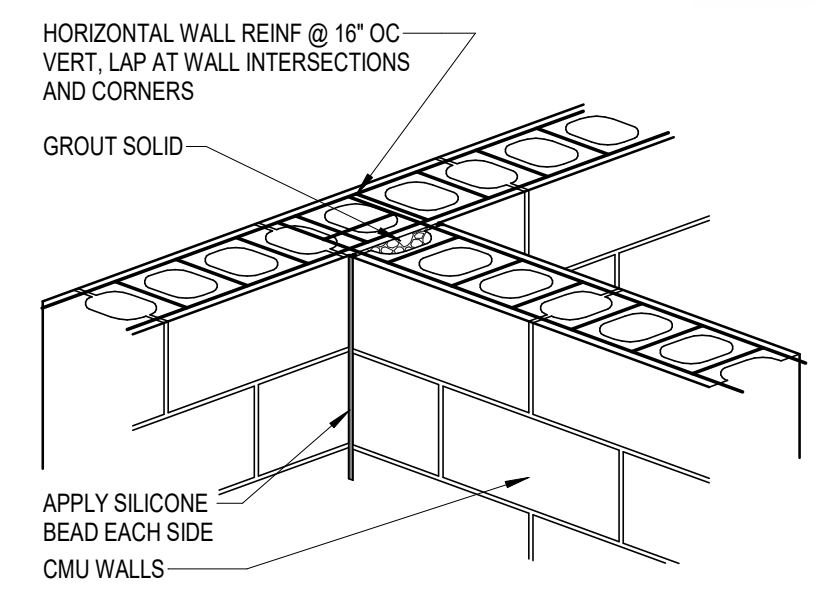
14 CMU MASONRY LINTEL DETAIL
1 1/2" = 1'-0"



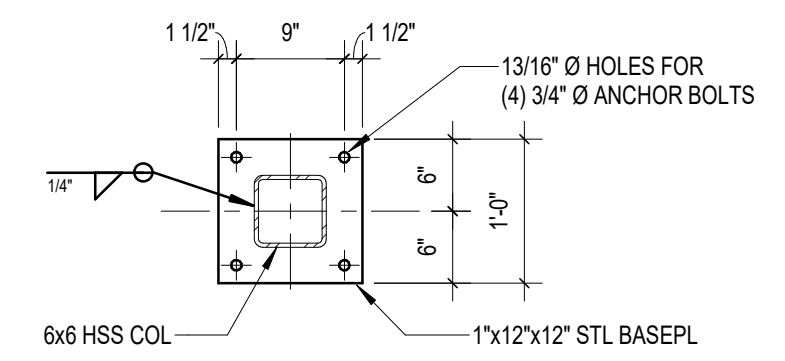
13 TYPICAL CMU CONTROL JOINTS
3/4" = 1'-0"



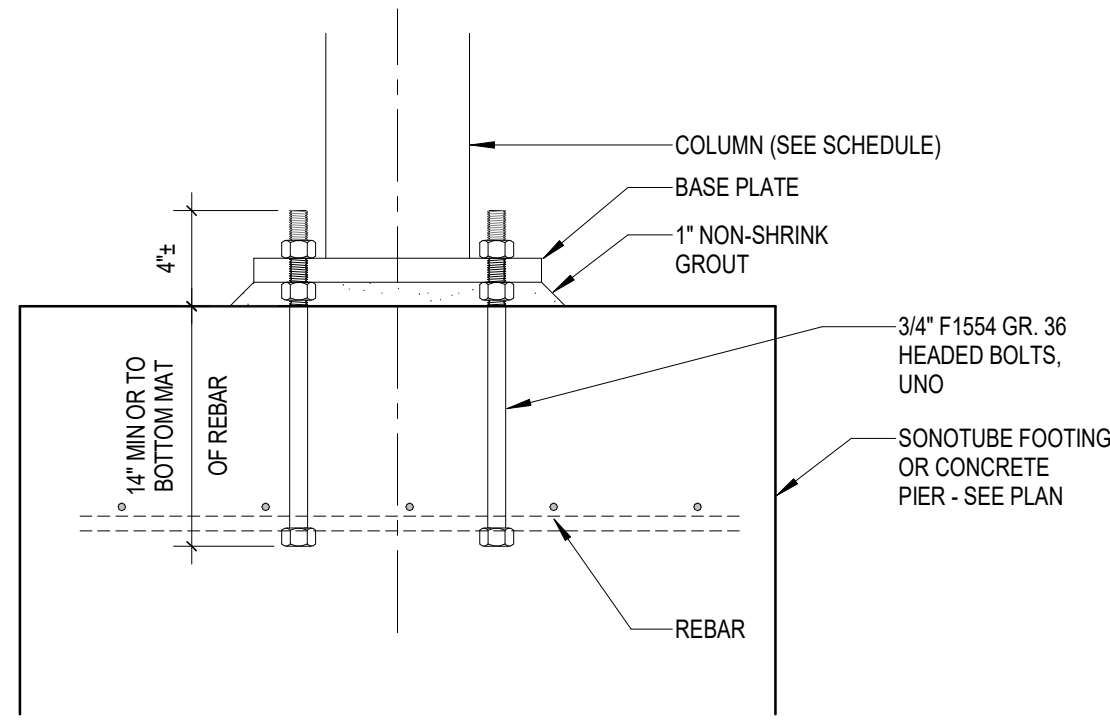
12 CMU MASONRY OPENING REINFORCING IN ELEVATION
1/4" = 1'-0"



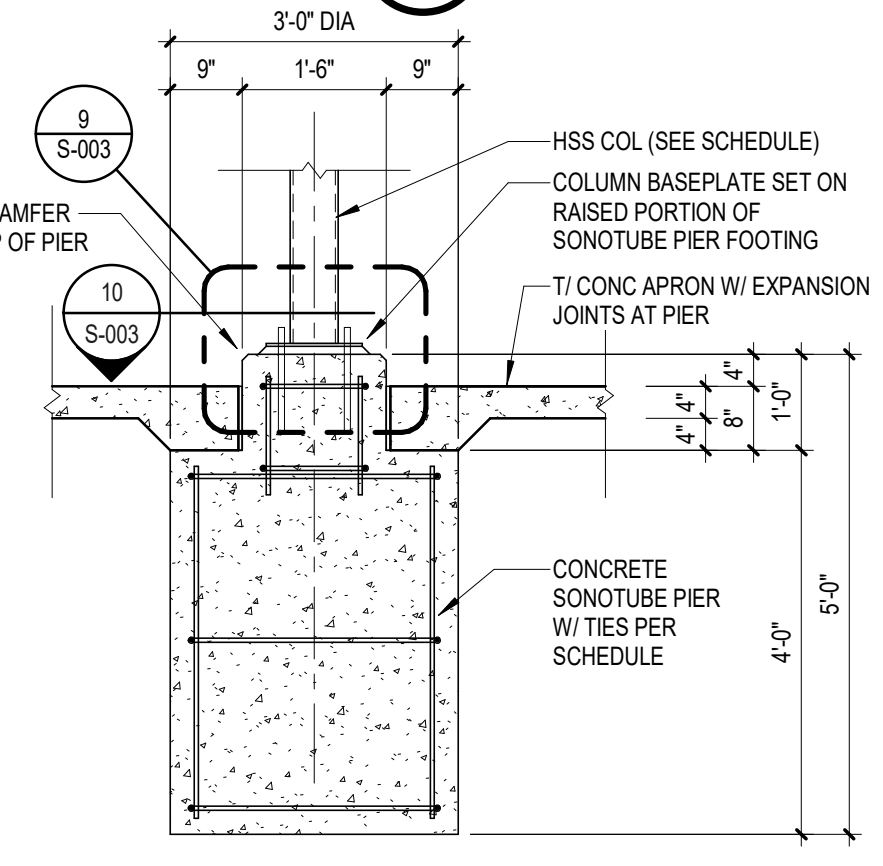
11 CMU HORIZONTAL REINFORCING
3/4" = 1'-0"



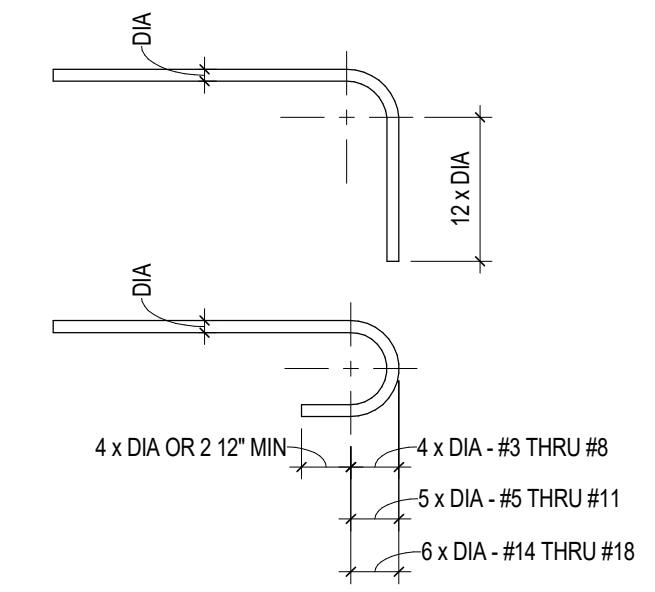
10 HSS COL BASEPLATE
3/4" = 1'-0"



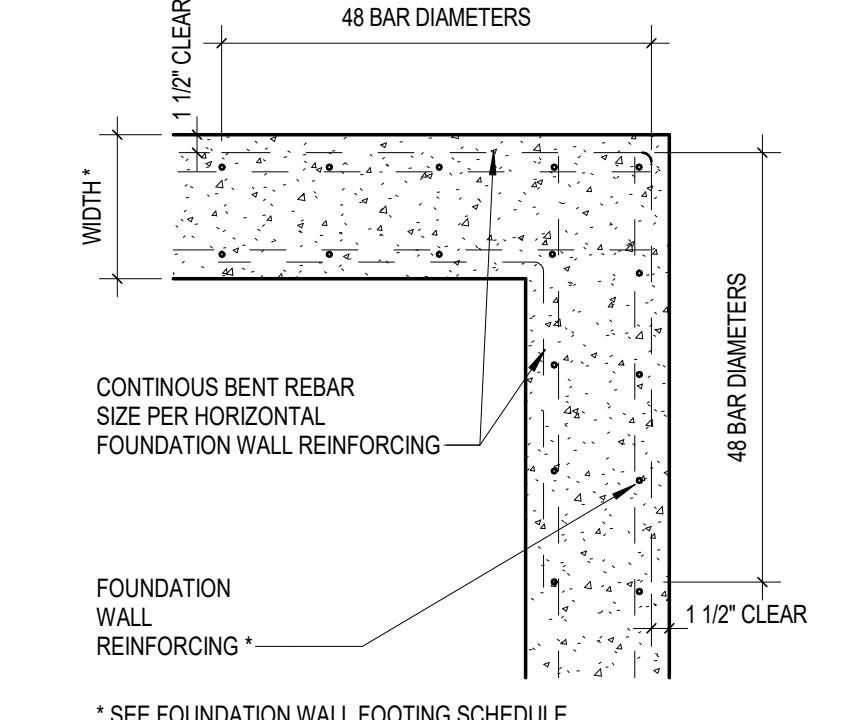
9 COLUMN ANCHORING
1 1/2" = 1'-0"



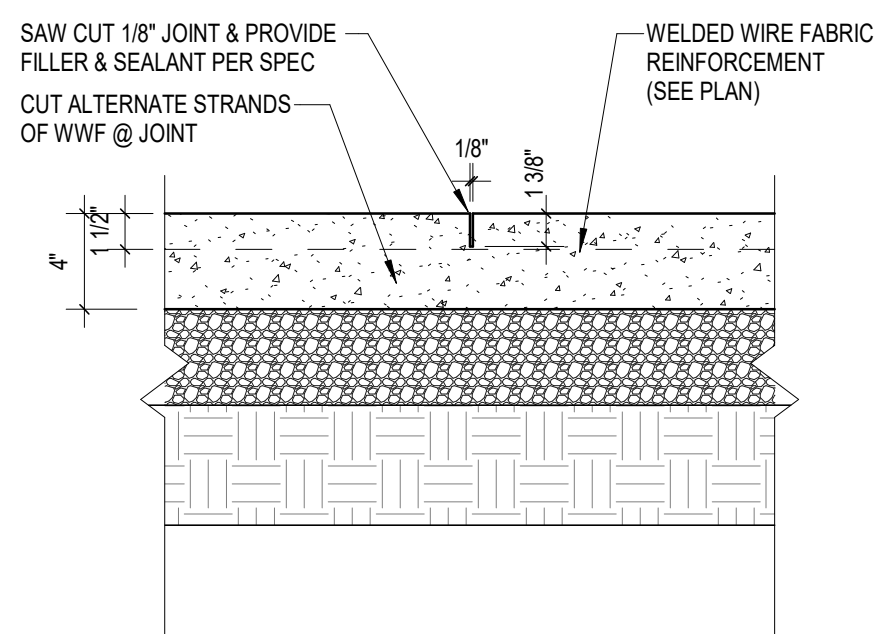
8 SONOTUBE PIER FTG DETAIL
1/2" = 1'-0"



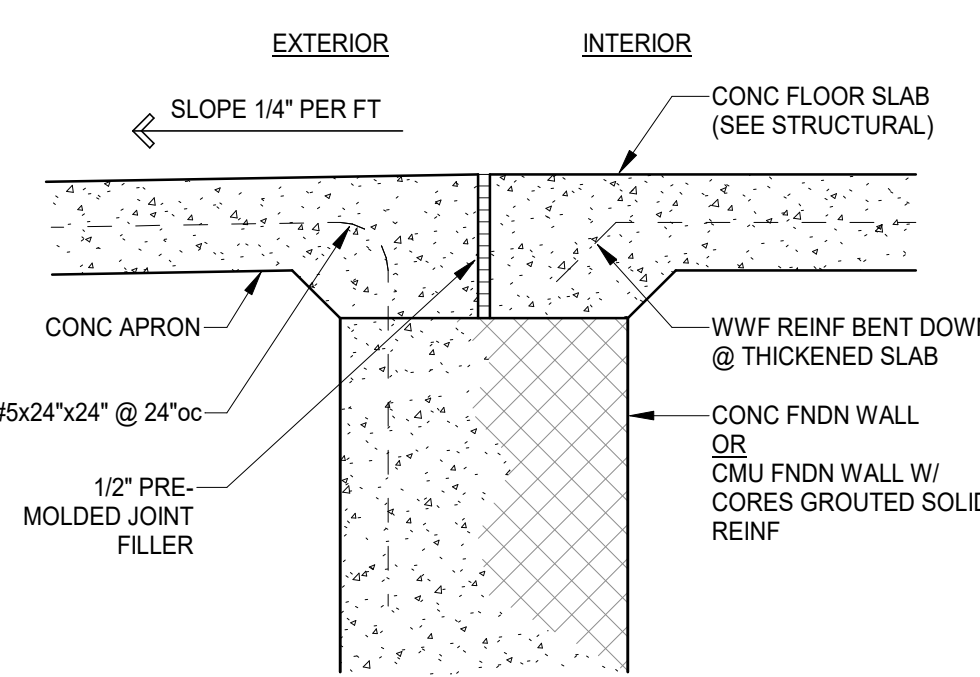
7 TYPICAL REBAR HOOK RADIUS
3/4" = 1'-0"



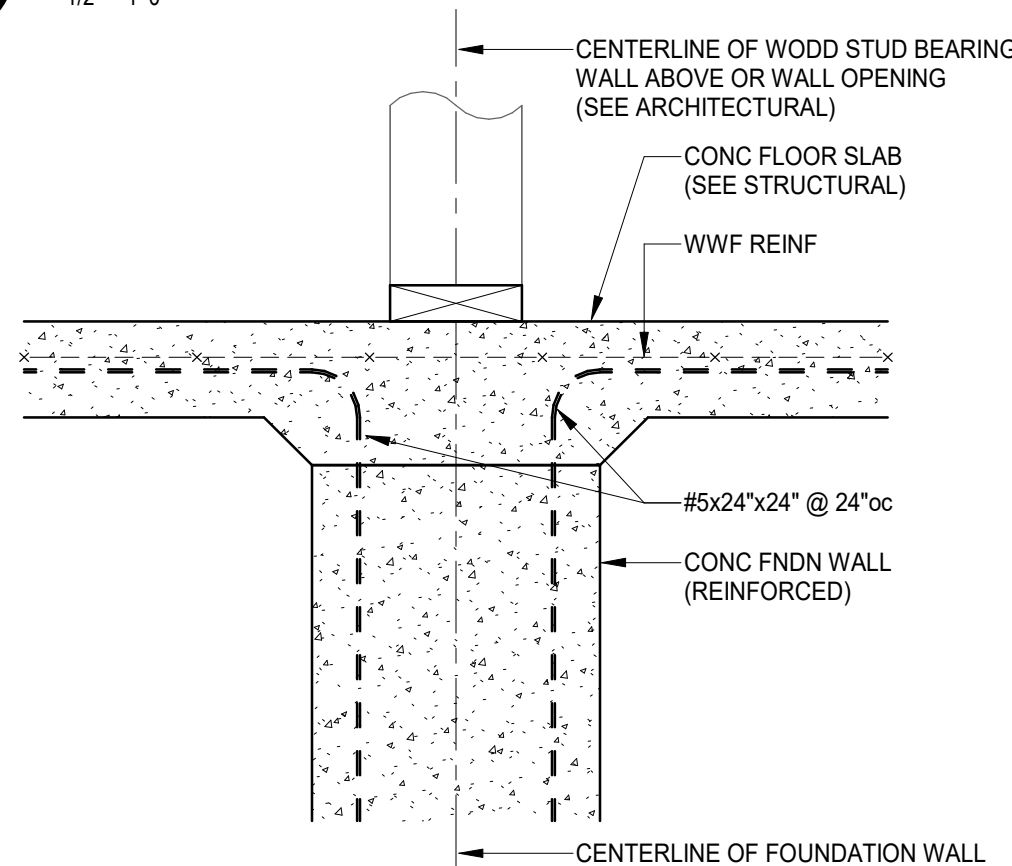
6 FNDN WALL CORNER REINFORCING
3/4" = 1'-0"



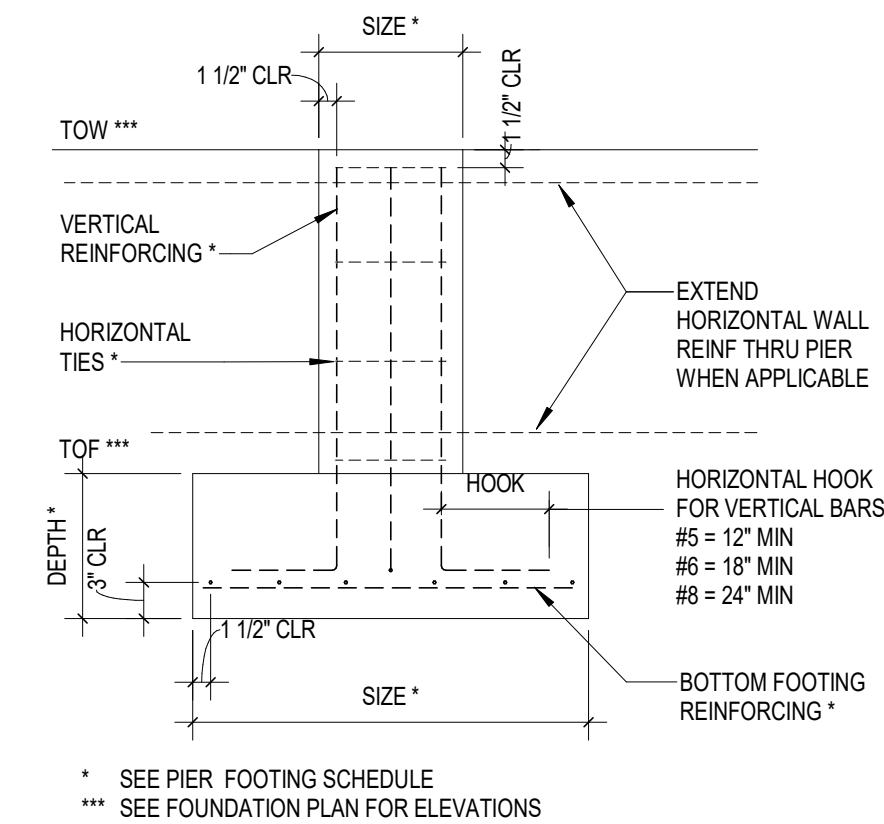
5 SAW-CUT SLAB JOINT
1 1/2" = 1'-0"



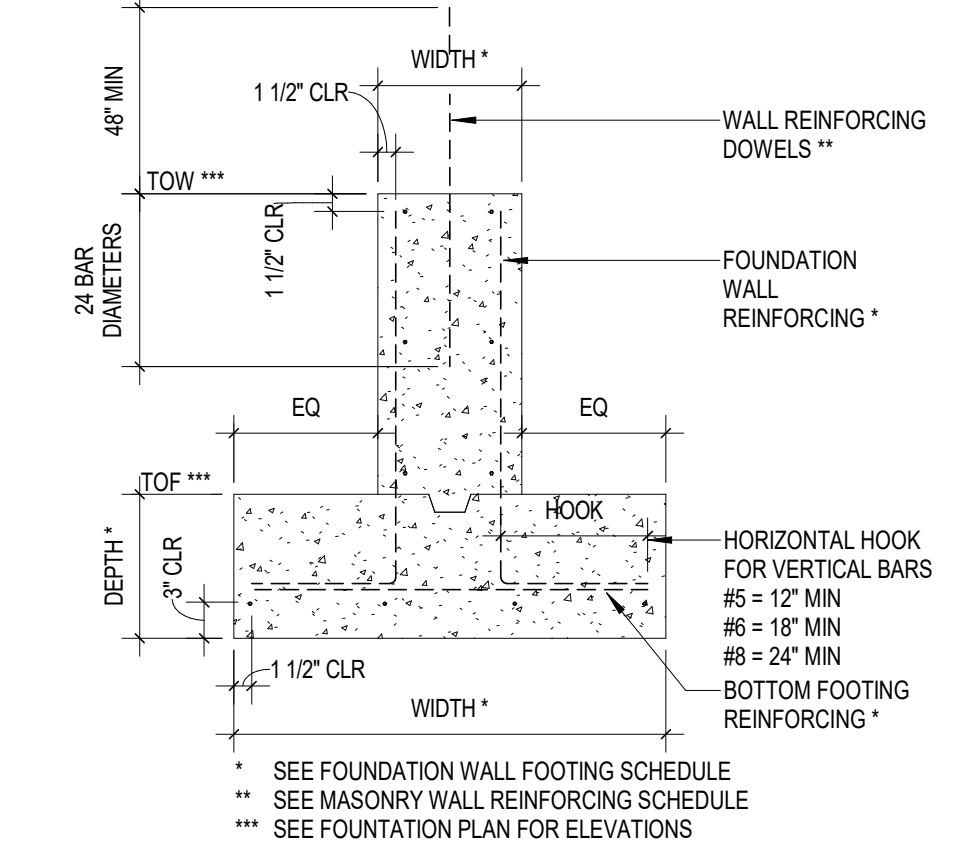
4 SLAB AT DOOR CONNECTION
1 1/2" = 1'-0"



3 SLAB AT INTERIOR BEARING WALL
1 1/2" = 1'-0"



2 TYPICAL PIER FOOTING DETAIL
3/4" = 1'-0"



1 TYP WALL FOOTING DETAIL
3/4" = 1'-0"

HOLD DOWN SCHEDULE	
I.D. # (DESIGNATED HDx)	DESCRIPTION
HD1	SIMPSON HD3B WITH (2) 5/8" Ø BOLTS INTO (1) 2x6 CHORD
HD2	SIMPSON HD5B WITH (2) 3/4" Ø BOLTS INTO (2) 2x6 CHORD
HD3	SIMPSON HD7B WITH (3) 3/4" Ø BOLTS INTO (2) 2x6 CHORD

HOLD DOWN LOCATIONS TYPICALLY EACH SIDE OF FRAMED WINDOW OPENING AT EXTERIOR WALLS. INSTALL HOLD DOWN AT ONE SIDE OF FRAMED WINDOW OPENING AT ONE LOCATION AT WALL ON COL LINE "J". REFER TO PLAN. COORDINATE WITH FRAMING AFTER SLAB IS POURED.

COLUMN SCHEDULE			
I.D. # (DESIGNATED Cx)	COLUMN SIZE	BASE PLATE	CAP PLATE
C1	HSS 6x6x3/8		

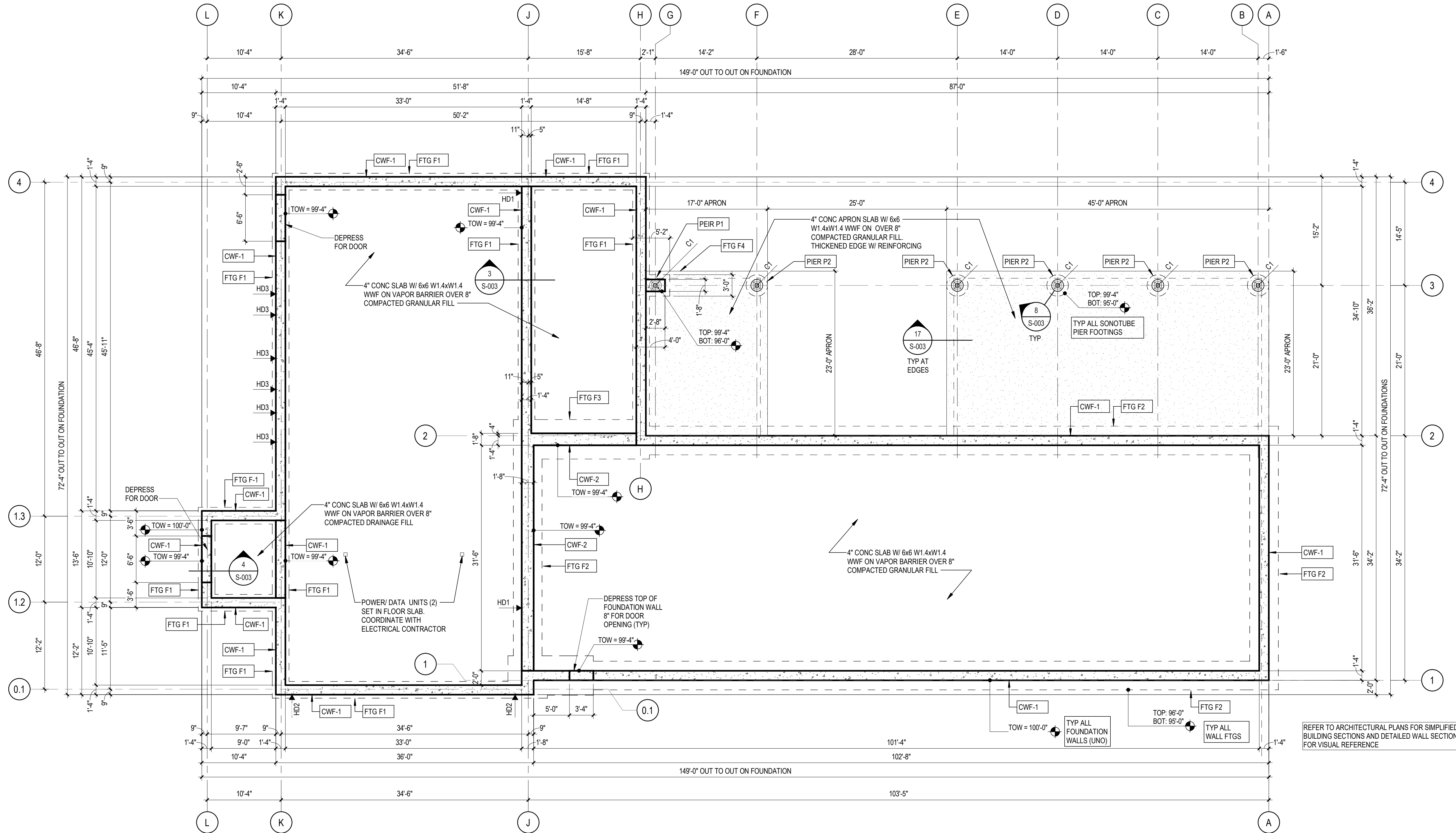
CONCRETE WALL FOUNDATION SCHEDULE		
I.D. # (DESIGNATED CWF-x)	CWF-1	CWF-2
WIDTH (FT)	1'-4"	1'-8"
STEEL VERTICAL	#5 @ 12" OC	#5 @ 12" OC
STEEL HORIZONTAL TIES	#5 @ 8" OC	#8 @ 12" OC

PIER SCHEDULE		
I.D. # (DESIGNATED Px)	P1	F2
TYPE	INTEGRAL	SONOTUBE
HEIGHT (FT)	3'-4"	4'-0"
WIDTH (FT)	2'-8"	--
LENGTH (FT)	1'-8"	--
DIAMETER (FT)	--	3'-0"
STEEL VERTICAL	--	(4) #4
STEEL HORIZONTAL TIES	--	(3) #3

FOOTING SCHEDULE				
I.D. # (DESIGNATED Fx)	F1	F2	F3	F4
TYPE	SPREAD	SPREAD	SPREAD	SPREAD
THICKNESS OR DEPTH (IN)	12"	12"	12"	12"
WIDTH (FT)	2'-4"	4'-0"	5'-6"	6'-0"
LENGTH (FT)	--	--	--	6'-0"
DIAMETER (FT)	--	--	--	--
STEEL BOTT - CONTINUOUS	(2) #5	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC
STEEL BOTT - PERPENDICULAR	#5 @ 32" OC	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC
STEEL TOP	#5	#5	#5	#5

SCHEDULE NOTES:

- PROVIDE HORIZONTAL HOOKS ON ALL VERTICAL BARS, TURNED OUT AWAY FROM CENTERLINE (#5 = 12", #8 = 24").
- PROVIDE "L" 30"x30" FOR #5 HORIZONTAL LAP BARS AT ALL CORNERS.
- PROVIDE #5 BARS @ 36" OC PERPENDICULAR TO BOTTOM FOOTING BARS FOR WALL FOOTINGS.
- REFER TO PLANS FOR STRIP FOOTING LENGTHS.



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



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FOUNDATION PLAN
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

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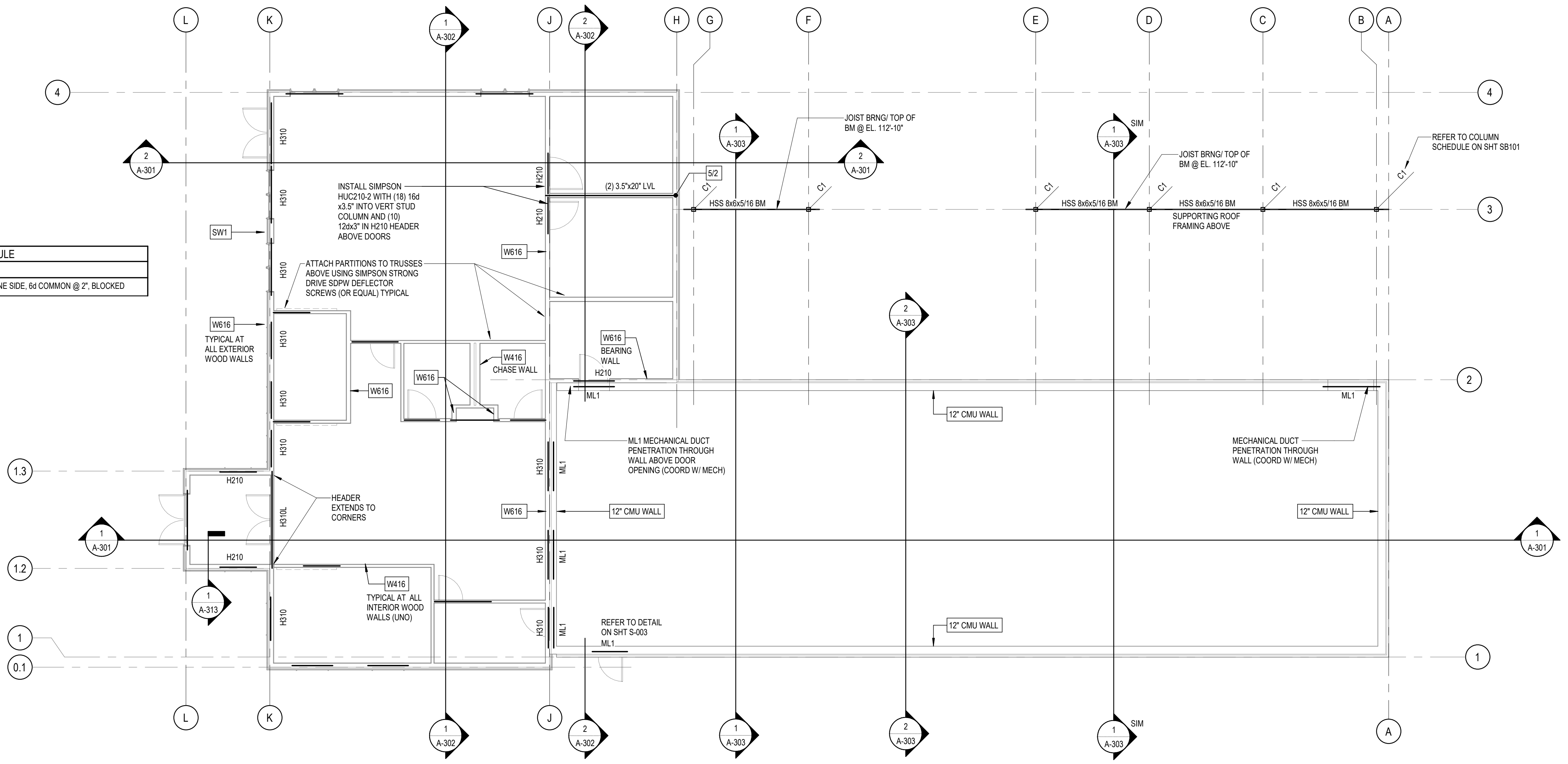


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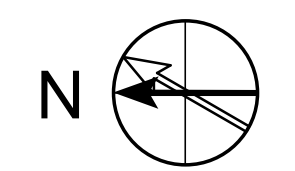
STRUCTURAL FRAMING PLAN
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

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SF101				FINAL RECORD	<input type="checkbox"/>	CHECKED JB
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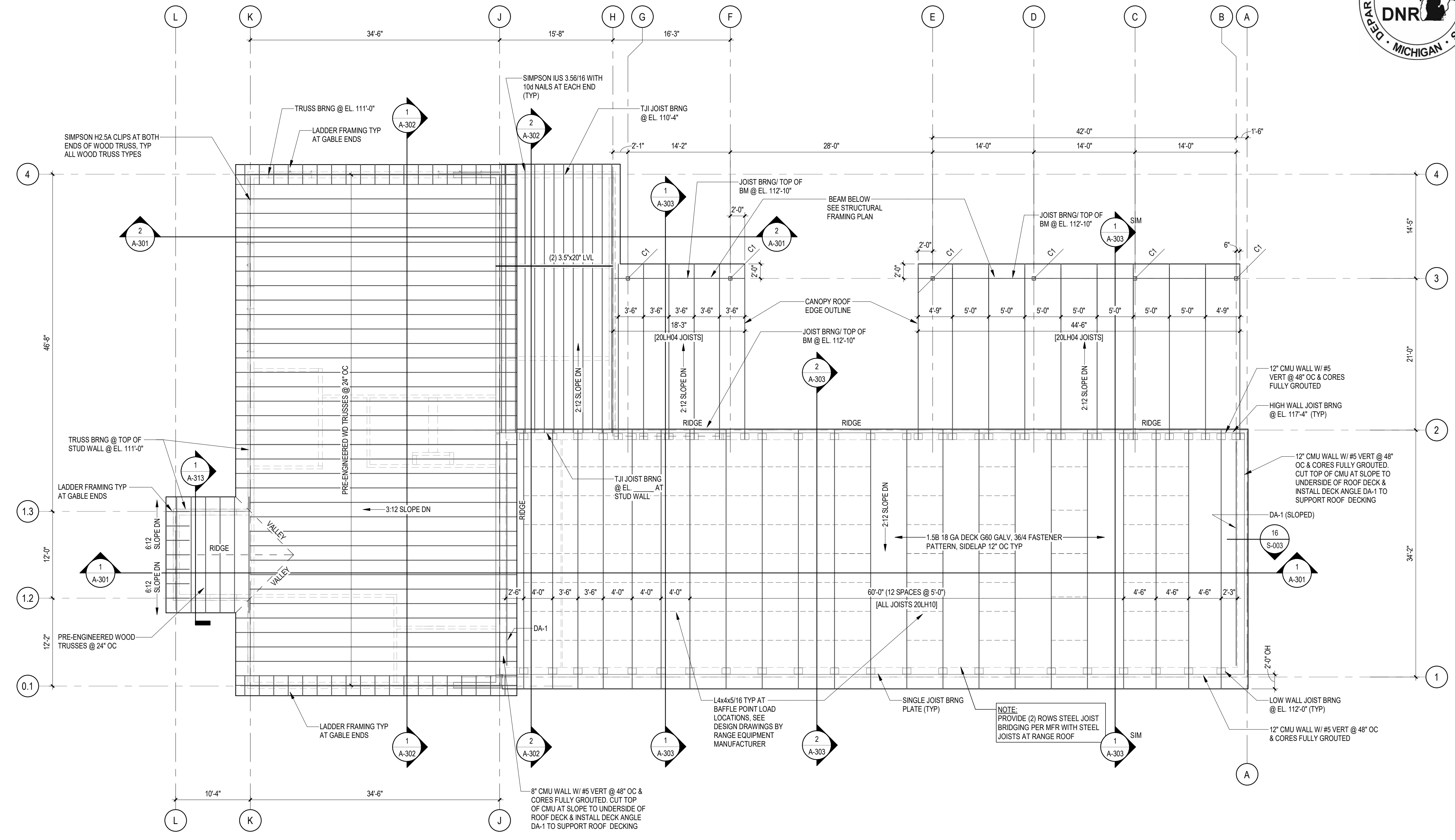
SHEAR WALL SCHEDULE	
I.D.#	DESCRIPTION
SW1	5/16 PLYWOOD, ONE SIDE, 6d COMMON @ 2", BLOCKED



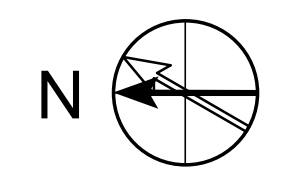
1 FLOOR FRAMING PLAN
1/8" = 1'-0"



SHEET SF111	IDENTIFICATION No. PROJECT FILE NUMBER 085017-0010 ACCOUNTING TEMP. 2339051110	ISSUED FOR	DATE	DESIGNED	AR
		PRELIMINARY	03/10/2021	DRAWN	TD
		CONSTRUCTION		CHECKED	JB
		FINAL RECORD		APPROVED	CO



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



ABBREVIATIONS

SEE LEGENDS ON A-002 FOR ACCESSORY ABBREVIATIONS

Table of abbreviations for the first column, including terms like AND, AT, AIR CONDITIONING, ANCHOR BOLT, etc.

ABBREVIATIONS

SEE LEGENDS ON A-002 FOR ACCESSORY ABBREVIATIONS

Table of abbreviations for the second column, including terms like DEEP, DATUM, DOUBLE, DECORATIVE CONCRETE MASONRY UNIT, etc.

ABBREVIATIONS

SEE LEGENDS ON A-002 FOR ACCESSORY ABBREVIATIONS

Table of abbreviations for the third column, including terms like HOSE BIBB, HOLLOW CORE, HEAD, HEADER, etc.

ABBREVIATIONS

SEE LEGENDS ON A-002 FOR ACCESSORY ABBREVIATIONS

Table of abbreviations for the fourth column, including terms like OUT TO OUT, OVERALL, OHIO BUILDING CODE, ON CENTER, etc.

ABBREVIATIONS

SEE LEGENDS ON A-002 FOR ACCESSORY ABBREVIATIONS

Table of abbreviations for the fifth column, including terms like SOUTH, STAIN & VARNISH, SOUND ATTENUATION BATT INSULATION, etc.

ABBREVIATIONS

SEE LEGENDS ON A-002 FOR ACCESSORY ABBREVIATIONS

Table of abbreviations for the sixth column, including terms like VINYL WALL COVERING, WEST, WITH, WITHOUT, etc.

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STATE OF MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET STATE FACILITIES ADMINISTRATION DESIGN AND CONSTRUCTION DIVISION ROBERT C. HALL, RA, NCARB, DIRECTOR



ARCHITECTURAL NOTES & SYMBOLS SHOOTING COMPLEX MICHIGAN DEPARTMENT OF NATURAL RESOURCES WESTERN PENINSULA SHOOTING FACILITY

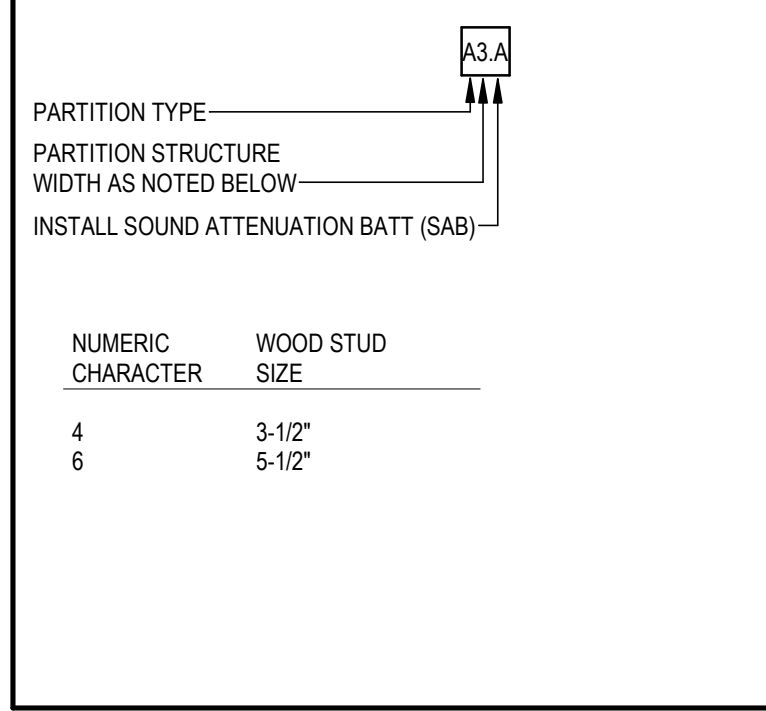
DRAWING SYMBOLS section containing VIEW REFERENCES, NOTES & ANNOTATIONS, BUILDING ELEMENTS, ACCESSIBILITY, MATERIAL SYMBOL LEGEND, and INDICATOR LINES.

GENERAL NOTES - ARCHITECTURAL section containing 12 numbered notes regarding drawing scales, construction conditions, and material specifications.

GENERAL NOTES - PARTITIONS

- USE PARTITION TYPE 'A4.A' UNO
- FOR CLARITY, PARTITION TYPES DO NOT INDICATE BASE AND FLOOR FINISHES. REFER TO ROOM FINISH SCHEDULE.
- PARTITIONS WITH TYPE INDICATORS ON BOTH SIDES OF PARTITION SHALL BE CONSTRUCTED TO SATISFY BOTH CONDITIONS INDICATED
- APPLY A CONTINUOUS BEAD OF ACOUSTICAL SEALANT AROUND ALL ELECTRICAL WALL BOXES FOR NON-FIRE-RATED PARTITIONS. APPLY ACOUSTICAL SEALANT AROUND PENETRATIONS ABOVE THE CEILING IN FULL-HEIGHT PARTITIONS. UNO
- PROVIDE MOISTURE RESISTANT G.W.B. ON ALL TOILET ROOM WET WALLS, JANITOR CLOSET WALLS, AND MECHANICAL ROOM WALLS. UNO
- PROVIDE CONTROL JOINTS AT 30' MAX IN PARTITIONS. LOCATE SYMMETRICALLY OR EVENLY SPACED ON WALLS IF NOT SHOWN OTHERWISE. REVIEW PROPOSED LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION
- REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION RE: WOOD STUD REQUIREMENTS

PARTITION TYPES KEY



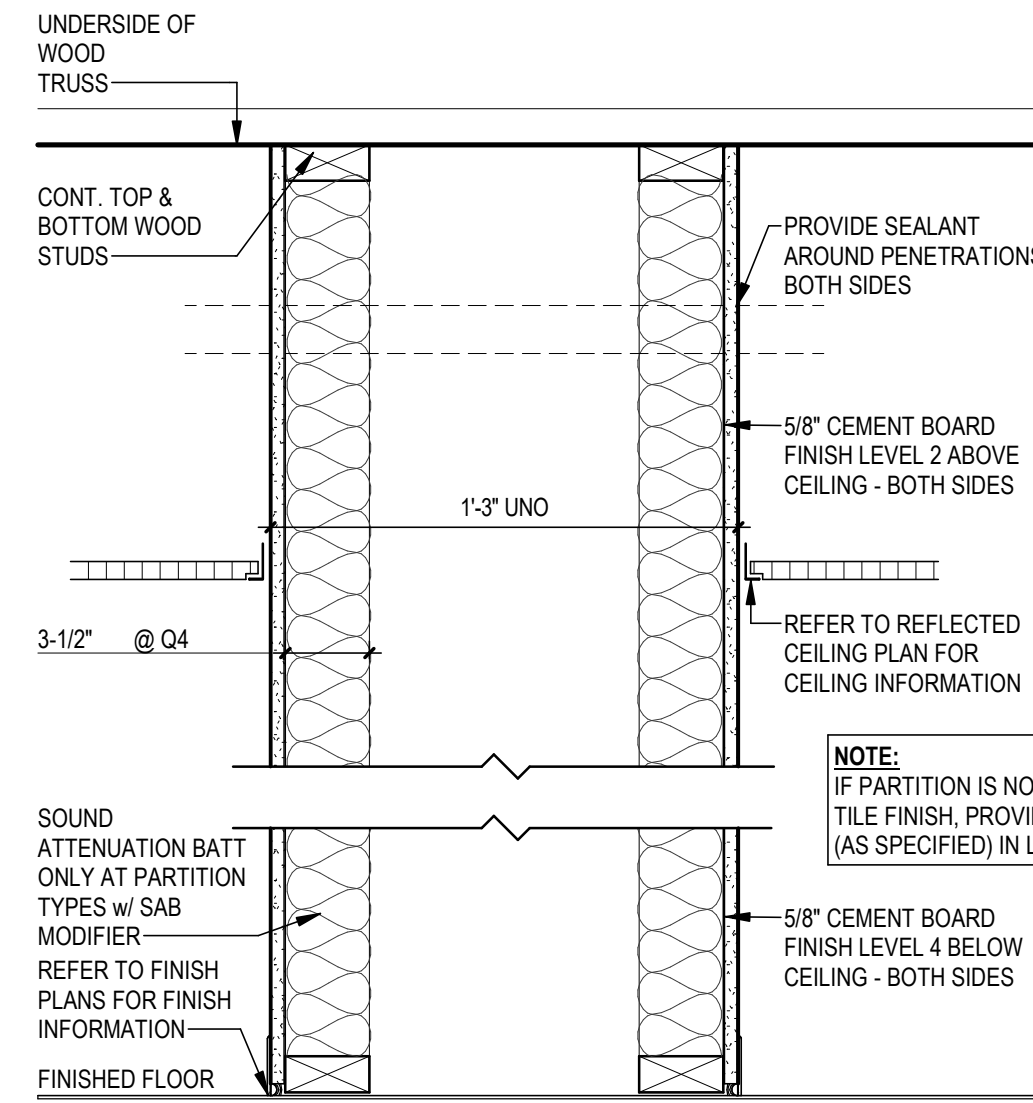
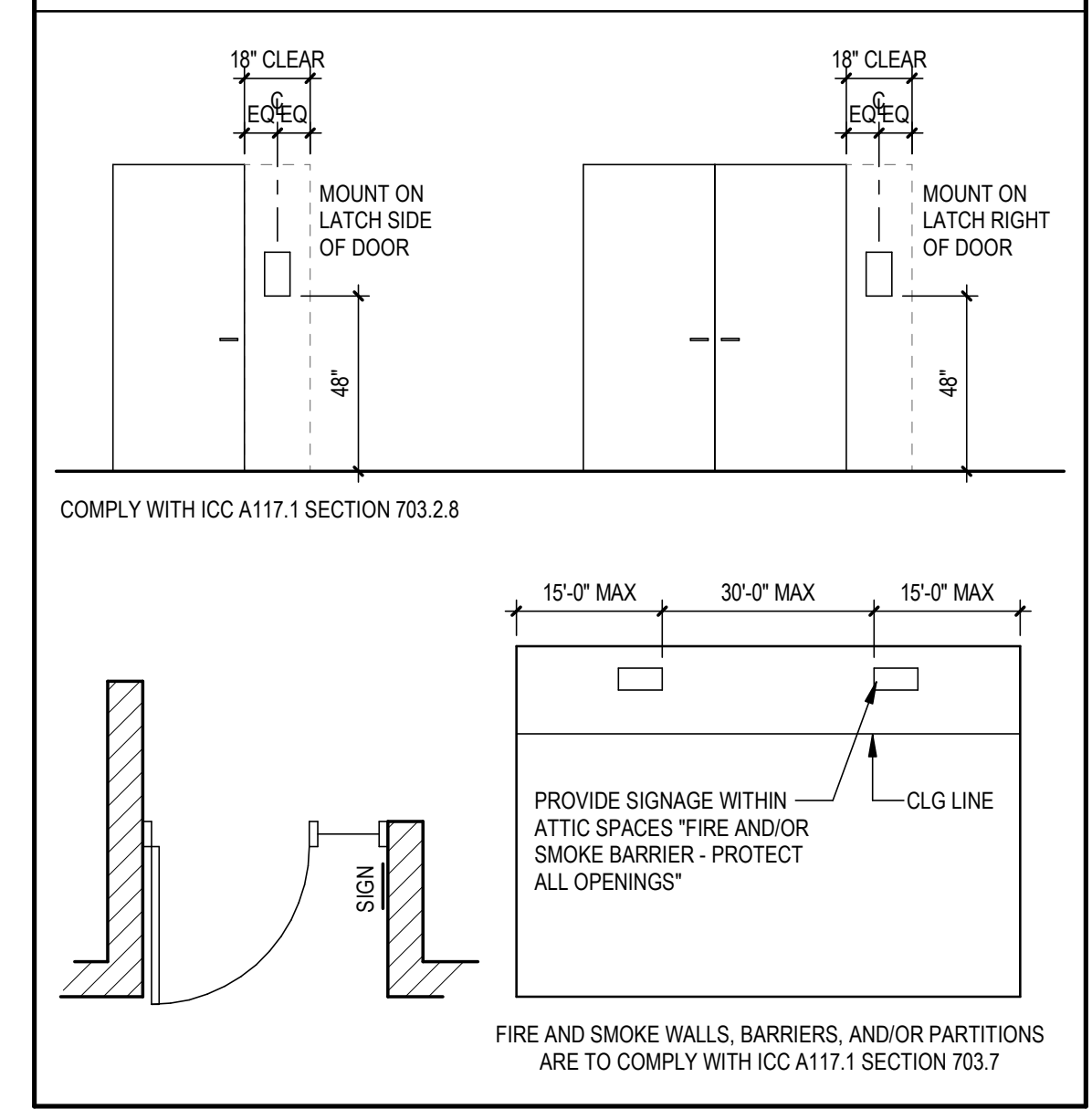
GENERAL SIGNAGE NOTES:

- REFER TO AF101 FOR SIGNAGE LOCATIONS
- REFER TO CODE COMPLIANCE PLAN FOR MAXIMUM OCCUPANCY VALUES FOR ROOMS WITH S-C SIGN.

SIGNAGE LEGEND

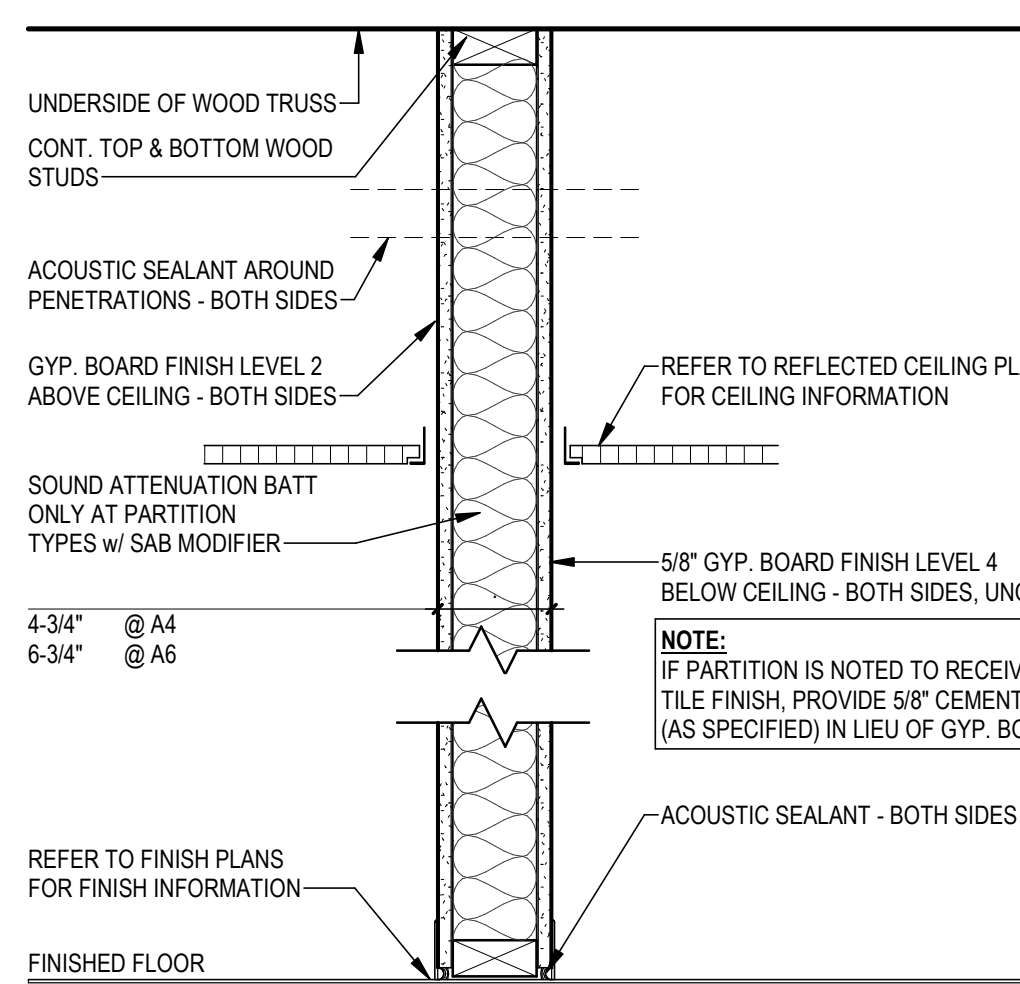


SIGNAGE MOUNTING LEGEND



TYPE 'Q' PARTITION CHASE WALL

STC 52



TYPE 'A' SOUND CONTROL WALL

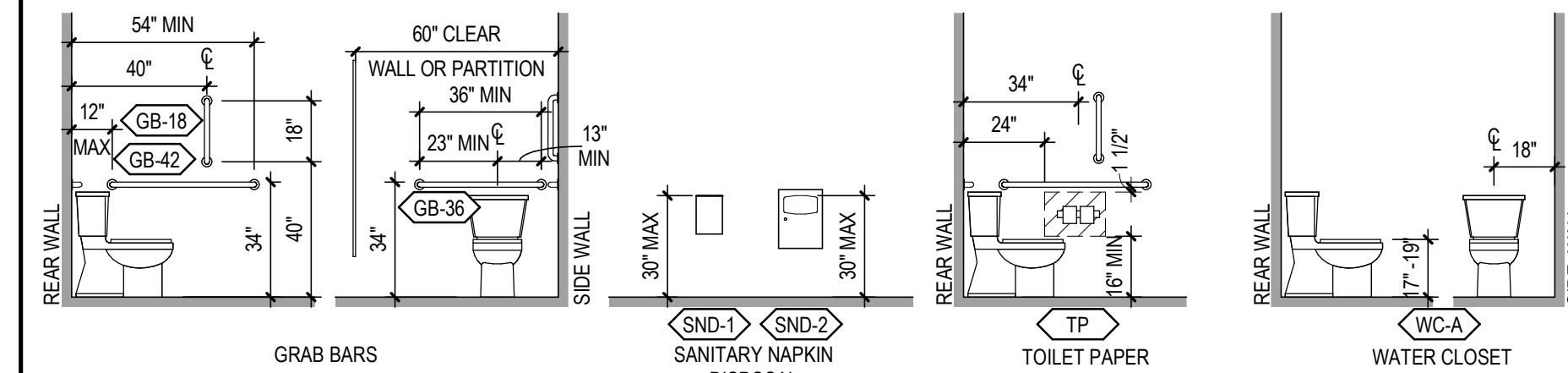
STC 45-49

MOUNTING LOCATIONS LEGEND

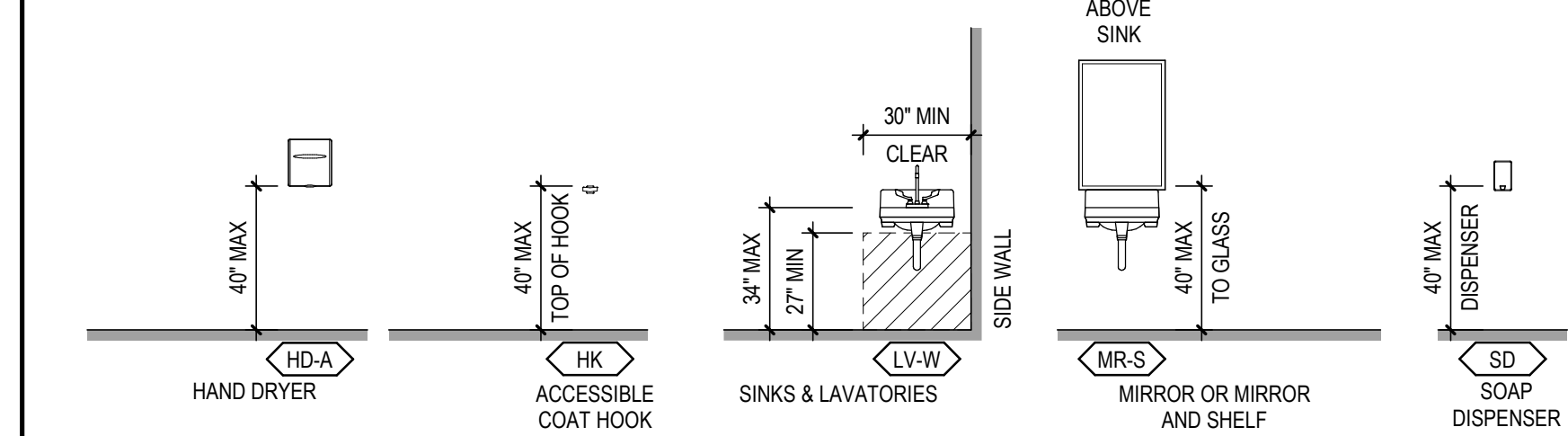
GENERAL NOTES:

- COMPLY WITH THE STATE BUILDING CODE, ICC A117.1, AND THE AMERICANS WITH DISABILITIES ACT.
- PROVIDE BLOCKING BEHIND TOILET ACCESSORIES FOR SECURE MOUNTING TO WITHSTAND 250# VERTICAL AND HORIZONTAL FORCE.
- EXPOSED WATER SUPPLY AND DRAINAGE PIPES BELOW LAVATORIES OR SINKS MUST BE INSULATED OR OTHERWISE POSITIONED TO PROTECT AGAINST CONTACT. THERE MUST BE NO SHARP OR ABRASIVE SURFACES BELOW LAVATORY.

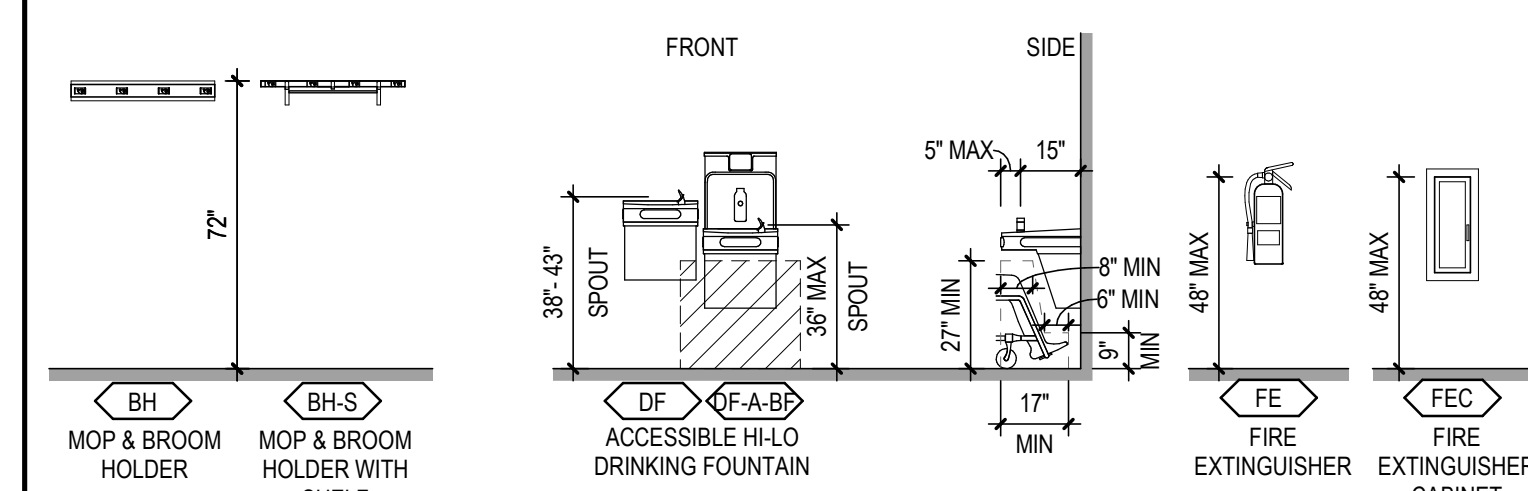
TOILET COMPARTMENT ACCESSORIES



RESTROOM ACCESSORIES



OTHER ACCESSORIES



TYPICAL DETAILS & WALL ASSEMBLIES

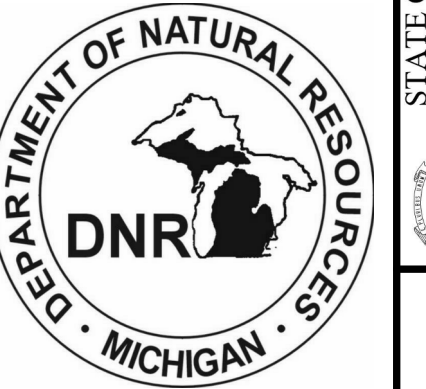
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY



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Hancock, MI 49930
PH 906.482.0535 | F 906.482.6453

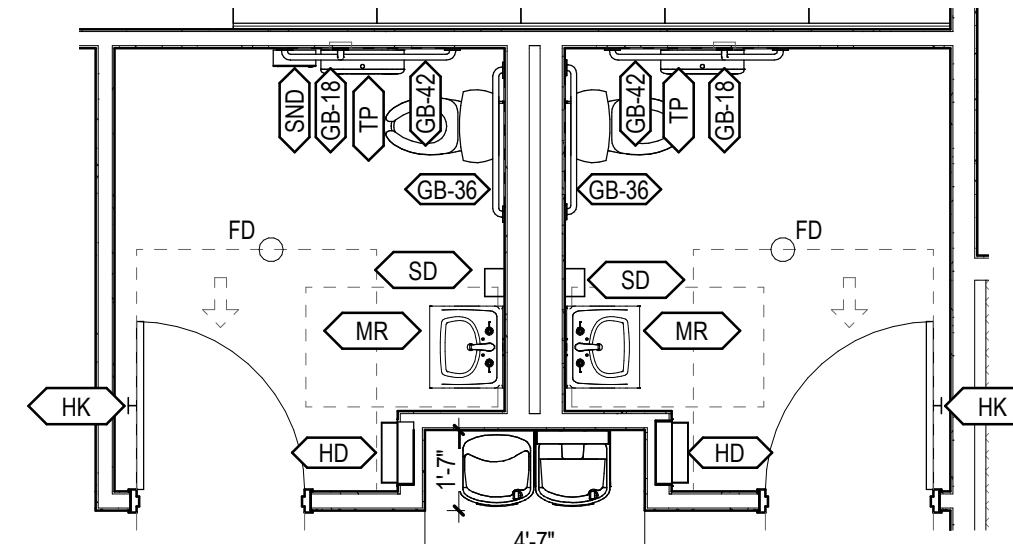
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OHM PROJECT No.



STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ROBERT C. HALL, RA, NCARB, DIRECTOR

SHEET	IDENTIFICATION No.	PROJECT FILE NUMBER	ISSUED FOR	DATE	DESIGNED	CO
A-002		086A-17-0010	<input checked="" type="checkbox"/>	03/10/2021		
		ACCOUNTING TEMP.	<input type="checkbox"/>			
		2359051110	<input type="checkbox"/>			



REFER TO A-002 FOR ADDITIONAL ACCESSORY INFORMATION

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

- GENERAL NOTES - PLANS**
1. FIRST FLOOR REFERENCE ELEVATION 100'-0" = 627.00'
 2. DO NOT SCALE DRAWINGS. IF DIMENSIONS CANNOT BE DETERMINED OR DOCUMENTS ARE IN CONFLICT, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUATION OF WORK.
 3. REFER TO A-001 FOR MATERIAL / REFERENCE SYMBOLS AND ABBREVIATIONS
 4. REFER TO LIFE SAFETY DRAWINGS (G-SERIES) FOR LOCATIONS AND EXTENTS OF RATED ASSEMBLIES, AS WELL AS FIRE EXTINGUISHER LOCATIONS. IF PARTITION DESIGNATION DISCREPANCY OCCURS BETWEEN THE CODE DRAWINGS AND FLOOR PLANS, PROVIDE THE PARTITION TYPE INDICATED WITH THE MOST STRINGENT REQUIREMENTS
 5. REFER TO AF SERIES FOR ROOM FINISH PLANS
 6. REFER TO A-011 FOR ALL ASSEMBLY TYPES
 7. REFER TO A-002 FOR ACCESSORY MOUNTING DIAGRAMS AND TYPICAL TOILET ROOM TYPES
 8. REFER TO A-600 SERIES FOR DOOR, WINDOW, AND STOREFRONT INFORMATION AND DETAILS
 9. ALL MASONRY DIMENSIONS ARE NOMINAL, UNO
 10. ALL DIMENSIONS ARE FROM COLUMN REFERENCE LINE TO FACE OF STUD, UNO
 11. ALL DOORS TO BE 4" FROM FINISH FACE OF WALL TO HINGE, UNO

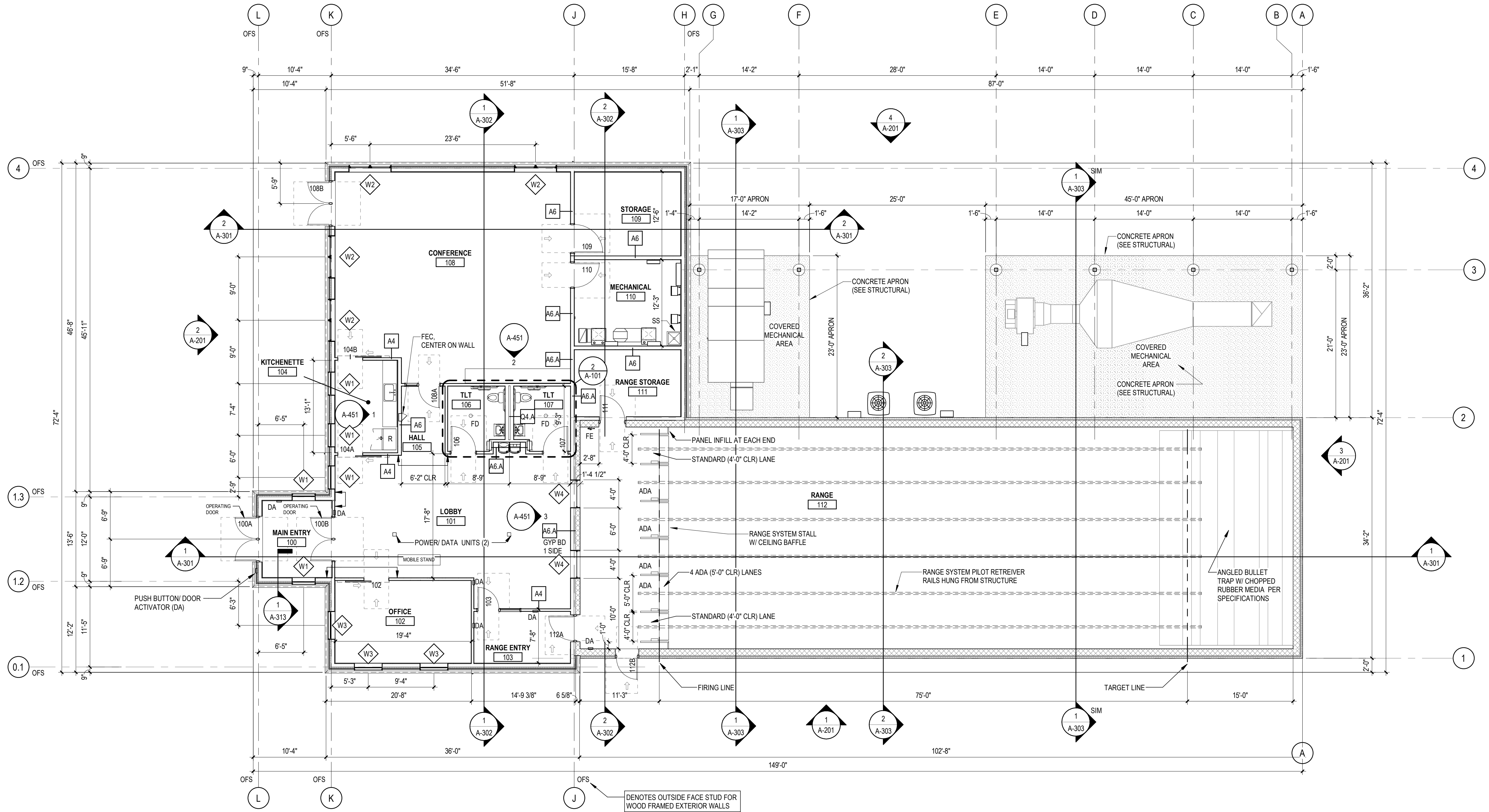


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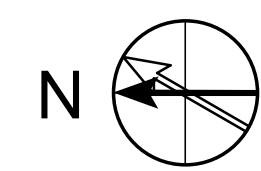
MAIN FLOOR PLAN

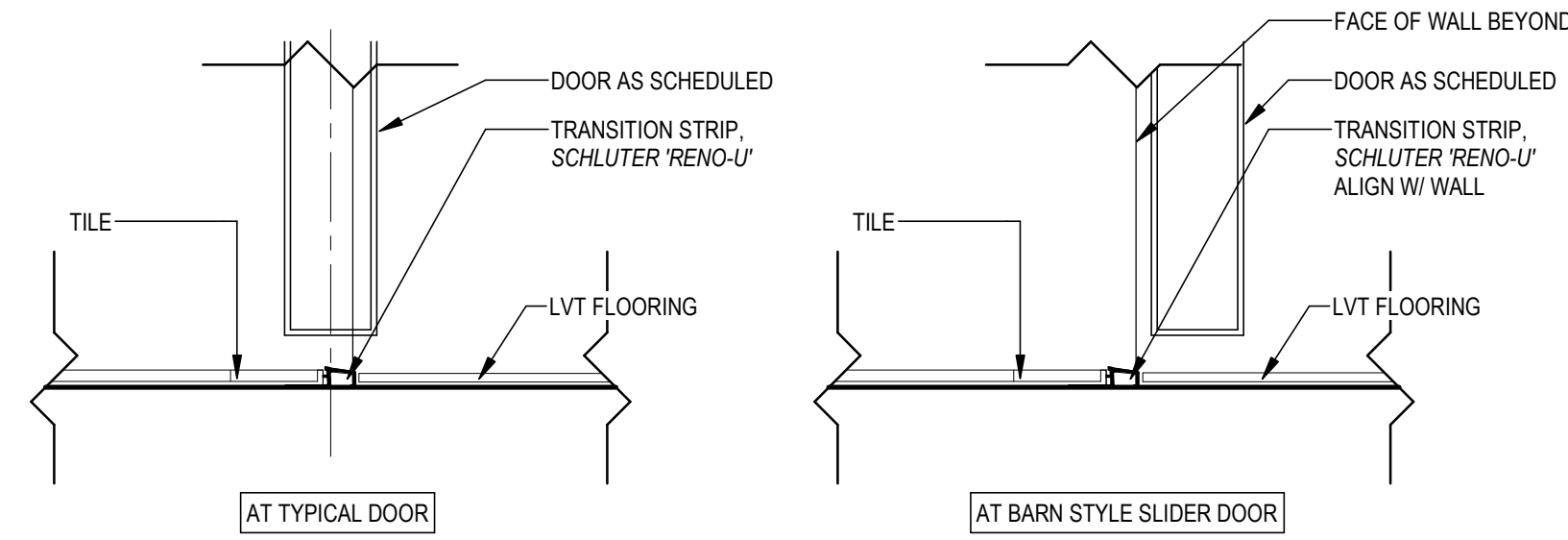
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				DRAWN	TD
A-101	ACCOUNTING TEMP. 2359061110	CONSTRUCTION	DATE	CHECKED	JD
				APPROVED	CO

03/10/2021

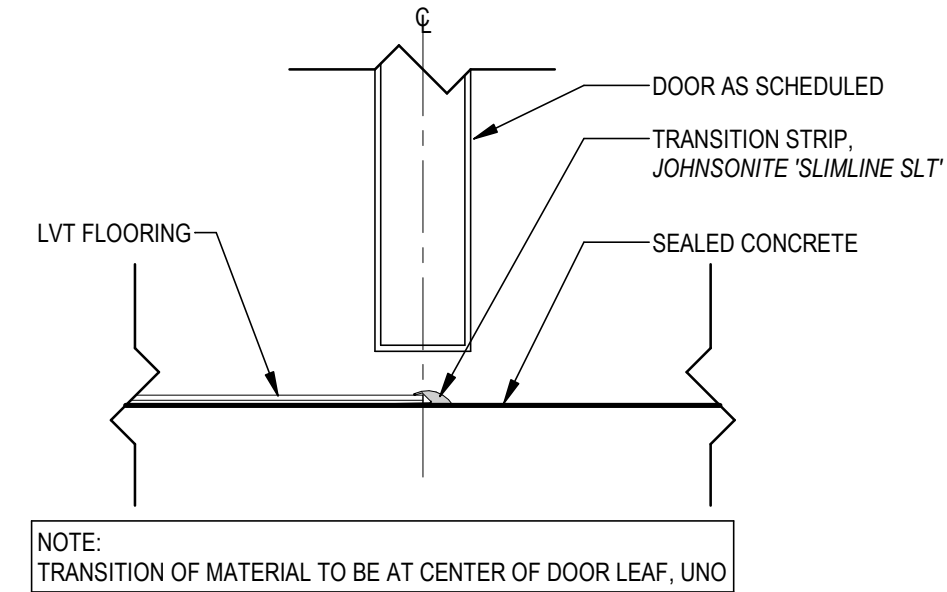


1 MAIN FLOOR PLAN
1/8" = 1'-0"

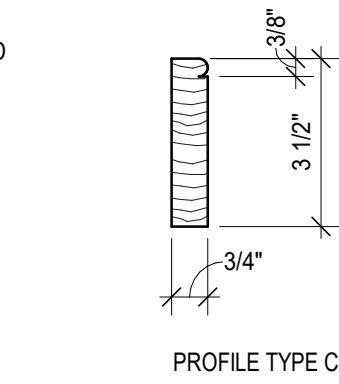




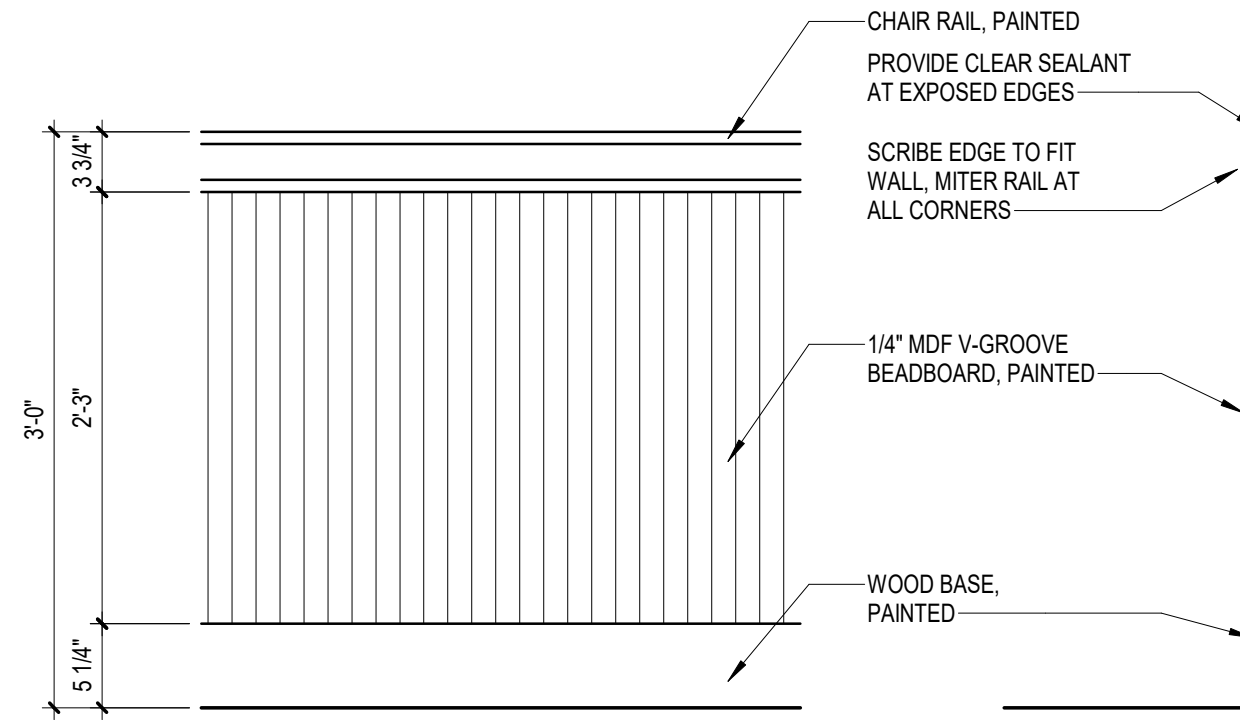
4 TRANSITION DETAIL - CT TO LVT
3" = 1'-0"



3 TRANSITION DETAIL - LVT TO CONCS
3" = 1'-0"



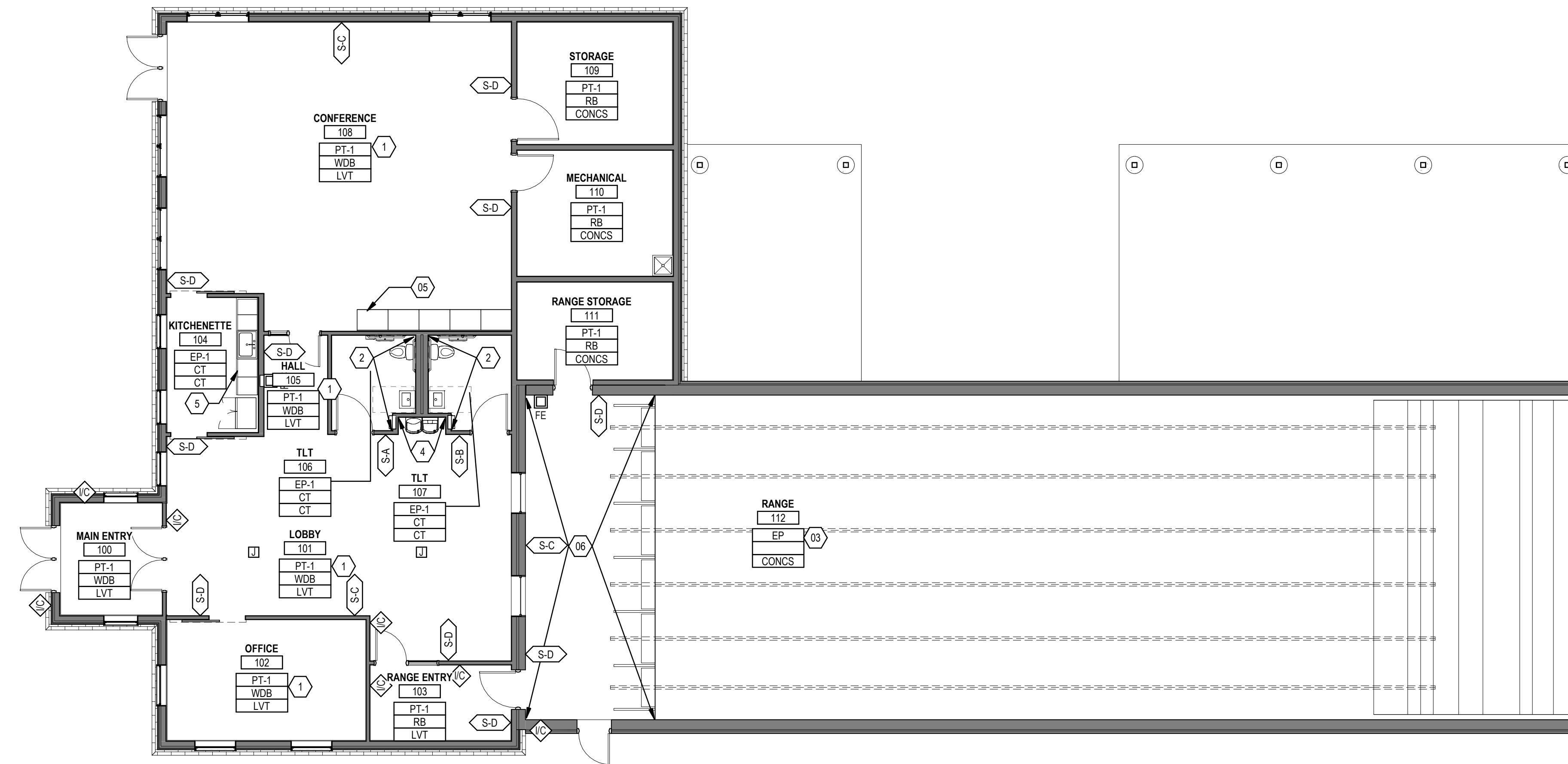
5 TRIM PROFILES
3" = 1'-0"



2 MOLDING DETAILS
1" = 1'-0"

FINISH ABBRV.		FINISH ABBRV.		FINISH ABBRV.			
BASE	CARPET	FLOORS	CONCD	CONCRETE - DYE STAINED GROUND AND COLORED	WALLS	AWP	ACOUSTICAL WALL PANEL
CPT	CERAMIC TILE	CONCP	CONCRETE - PAINTED	BB	BULLETIN BOARD	BRK	BRICK
DCMU	DECORATIVE CONCRETE MASONRY UNIT	CONCS	CONCRETE - WITH APPLIED SURFACE SEALER	CST	CAST STONE	CT	CERAMIC TILE
EFC	EPOXY FLOOR COATING SYSTEM	CONCU	CONCRETE - UNFINISHED	DCMU	DECORATIVE CONCRETE MASONRY UNIT	DEC	DRY ERASE COATING
EX	EXISTING (NO NEW FINISH)	CPT	CARPET	CRK	CORK	EP	EPOXY PAINT
LNM	LINOLEUM	CT	CERAMIC TILE	EX	EXISTING (NO NEW FINISH)	FWC	FABRIC WALL COVERING
NB	NO BASE	EFC	EPOXY FLOOR COATING SYSTEM	PT	PAIN	PT	PAIN
RB	RESILIENT BASE	EX	EXISTING (NO NEW FINISH)	PWP	PROTECTIVE WALL PANEL	ST	STONE
SR	SHEET RUBBER	HWD	HARDWOOD FLOORING	ST	STONE	UF	UNFINISHED
ST	STONE	LNM	LINOLEUM	VCT	VINYL COMPOSITE TILE	WVC	VINYL WALL COVERING
SV	SHEET VINYL	LVT	LUXURY VINYL TILE	WDP	WOOD PANELING		
TER	TERRAZZO	RFT	RUBBER FLOOR TILE				
TREP	TROWELED EPOXY	RST	RUBBER STAIR TREAD AND RISER SYSTEM				
UF	UNFINISHED	SR	SHEET RUBBER				
VB	VINYL BASE	ST	STONE				
VTB	VENTED BASE	SV	SHEET VINYL				
WDB	WOOD BASE	TER	TERRAZZO				
		TREP	TROWELED EPOXY				
		UF	UNFINISHED				
		VCT	VINYL COMPOSITE TILE				
		WDG	HARDWOOD GYMNASIUM FLOORING				
		WPF	WATER PROOF FLOORING				

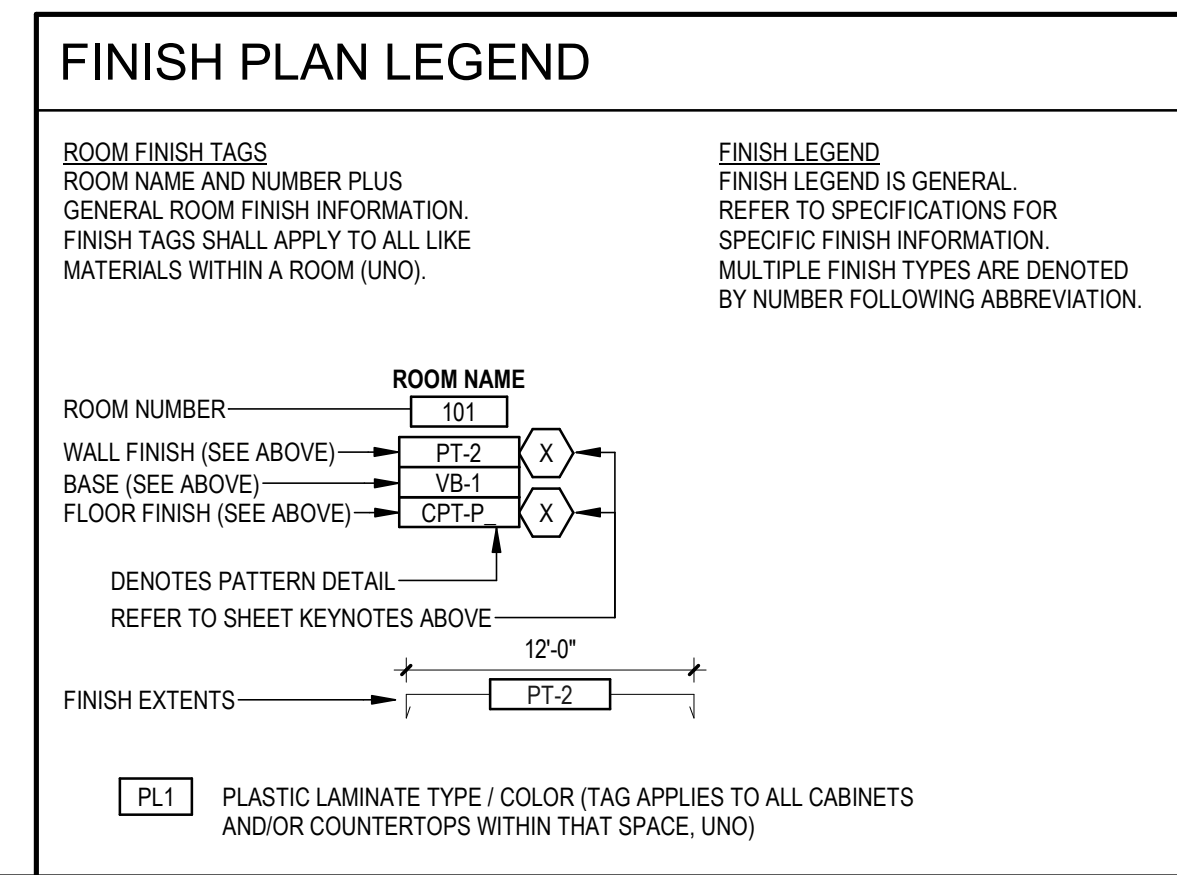
MOLDING BASED ON BOLYARD LUMBER SUPPLY PROFILE NUMBER: WWW.BOLYARDLUMBER.COM
BASE MOLDING: 5 1/4" COVE BASE BL28
CHAIR MOLDING: 3 3/4" CHAIR RAIL BL370



1 MAIN FLOOR FINISH PLAN
1/8" = 1'-0"

- GENERAL NOTES - FINISH PLANS**
- REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS, AND FINISH INFORMATION.
 - AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES.
 - PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED.
 - PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.
 - ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
 - PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND HORIZONTAL APPLICATIONS.
 - REFER TO PAINTING SPECIFICATIONS FOR PAINT SCHEDULE

- SHEET KEYNOTES - FINISH PLAN**
- WAINSCOT, CHAIR RAIL, REFER TO DETAIL 2/AF101.
 - TILE WET WALL, FULL HEIGHT
 - PT-1 TO BAFFLE HEIGHT, PT-4 ABOVE WHERE EXPOSED TO VIEW, UNO
 - PROVIDE TILE FULL HEIGHT BEHIND DRINKING FOUNTAIN.
 - RUBBER BASE AT CABINETS
 - RESINOUS FLOOR, TO EDGE OF SHOOTING BOOTHS



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SHEET	IDENTIFICATION No.	PROJECT FILE NUMBER 0660-17-0010	ISSUED FOR	DESIGNED	CO
				DRAWN	TD
AF101	ACCOUNTING TEMP. 2359/0110	DATE	CONSTRUCTION	CHECKED	TD
				APPROVED	CO

GENERAL NOTES - REF. CEILING PLANS

- DO NOT SCALE DRAWINGS. IF DIMENSIONS CANNOT BE DETERMINED OR DOCUMENTS ARE IN CONFLICT, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUATION OF WORK
- REFER TO PROJECT INFORMATION SHEET FOR MATERIAL / REFERENCE SYMBOLS AND ABBREVIATIONS
- REFER TO MECHANICAL, ELECTRICAL, FIRE SUPPRESSION & TECHNOLOGY DRAWINGS FOR QUANTITY AND TYPE OF CEILING MOUNTED FIXTURES / DEVICES
- ALL CEILING MOUNTED FIXTURES, DEVICES, ETC. ARE TO BE CENTERED WITHIN THE CEILING TILE, UNO
- THE TYPICAL HEIGHT FOR CEILINGS SHALL BE 9'-0", UNO
- PROVIDE CONTROL JOINTS @ 30'-0" O.C. MAX AT ALL GYPSUM BOARD BULKHEADS. LOCATE TO BE EVENLY SPACED OR TO ALIGN WITH COLUMN CENTERLINES, ADJACENT WALLS, OR OTHER ARCHITECTURAL ELEMENTS. REVIEW PROPOSED LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION
- REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILINGS ARE REQUIRED OR INDICATED
- REFER TO ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULE
- REFER TO MECHANICAL DRAWINGS FOR DIFFUSER FIXTURE SCHEDULE

XX SHEET KEYNOTES - RCP

- 01 PAINT EXPOSED DECK, STRUCTURE AND DUCTWORK PT-4, UNO

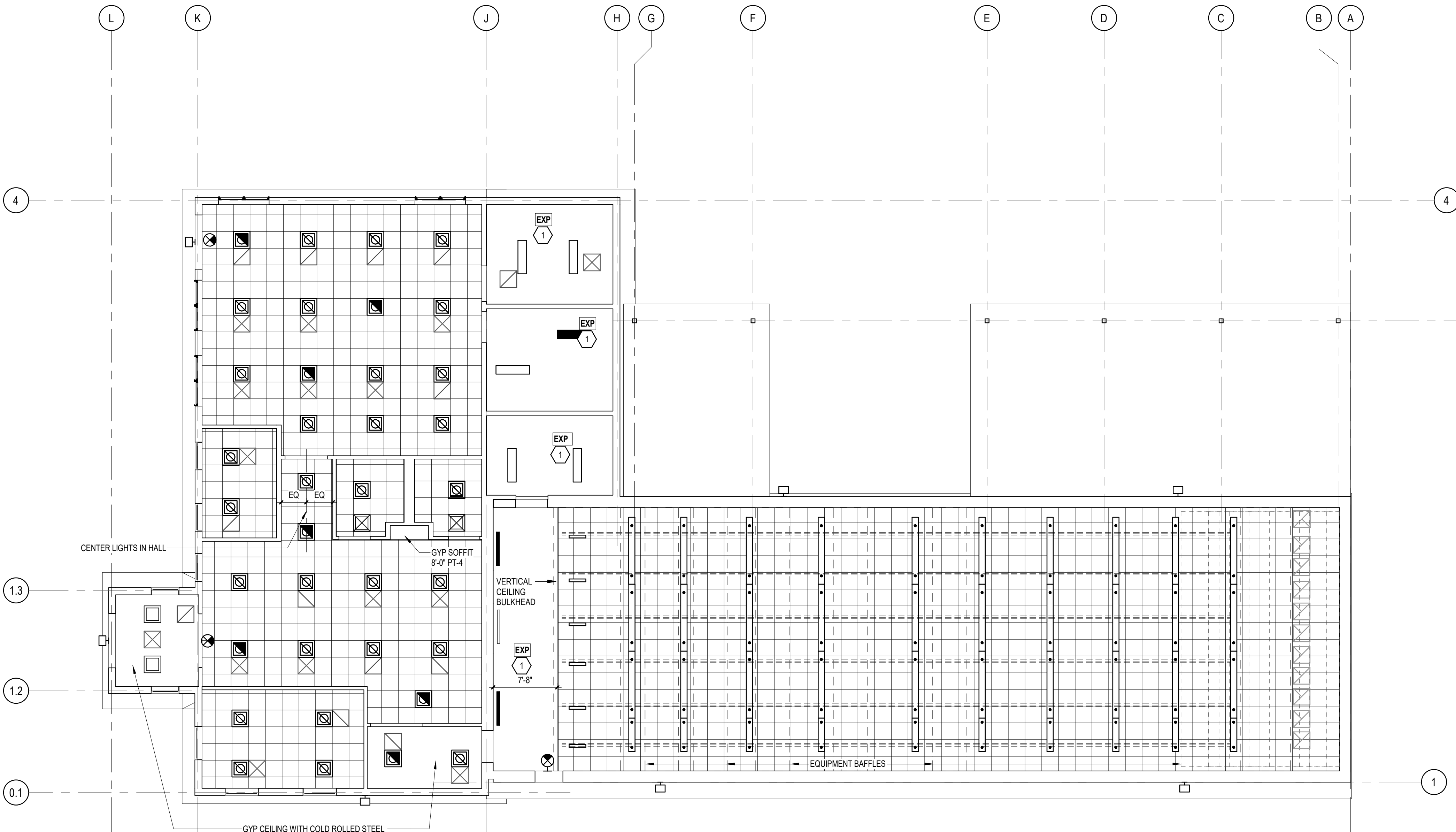


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1 MAIN FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

CEILING TYPES	
CA-1 X'-X"	CEILING TYPE CEILING ELEVATION
CA-1 2X2 ACOUSTICAL LAY-IN CEILING TILE	EXP REFER TO SHEET KEYNOTES EXPOSED TO ABOVE
CG-1 GYPSUM BOARD	
LIGHT FIXTURES (REFER TO ELECTRICAL DRAWINGS)	
○ □	SURFACE / CEILING MOUNT
● □	EMERGENCY SURFACE / CEILING MOUNT
○ □	PENDANT / CHAIN MOUNT
● □	EMERGENCY PENDANT / CHAIN MOUNT
○ □	RECESSED MOUNT
● □	EMERGENCY RECESSED MOUNT
—	TRACK STRIP
○ (INT.) □ (EXT.)	WALL MOUNT
● (INT.) □ (EXT.)	EMERGENCY WALL MOUNT
○	EXTERIOR POLE MOUNT
○	EXTERIOR POST MOUNT
○	INTERIOR EMERGENCY WALL PACK
○ (WALL) □ (CEILING)	EXIT SIGN
○	CEILING FAN (LIGHT) (NO LIGHT)
HVAC DEVICES (REFER TO MECHANICAL DRAWINGS)	
□	RECTANGLE DIFFUSERS
—	LINEAR DIFFUSERS
○	JET DIFFUSERS
□	REGISTER GRILLES
□	RETURN GRILLES
✕	FIRE PROTECTION SPRINKLER HEAD
□	ACCESS DOOR

MAIN FLOOR REFLECTED CEILING PLAN

SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

SHEET	IDENTIFICATION No.	PROJECT FILE NUMBER 06850-17-0010	ISSUED FOR	DESIGNED	CO
				DRAWN	TD
A-111	ACCOUNTING TEMP. 2359/05110	CONSTRUCTION	DATE	CHECKED	JB
				FINAL RECORD	CO
			03/10/2021		

ATTIC VENTILATION REQUIREMENTS

VENTILATION REQUIREMENTS FOR CLUBHOUSE ROOF/ATTIC SPACE

2,950 SF / 300 = 9.80 SF = 1,412 SQUARE INCHES

SOFFIT VENTING:

LOW END
 REQUIRED: 706 SQUARE INCHES
 PROVIDED: 1,451 SQ. INCHES + 570 SQ. INCHES = 2,021 SQ. INCHES

HIGH END/RIDGE VENTS:
 REQUIRED: 706 SQUARE INCHES
 PROVIDED: 1,814 SQ. INCHES + 388 SQ. INCHES = 2,201 SQ. INCHES

ROOF TYPES

ROOF TYPE 1
 STANDING SEAM METAL ROOF
 SLIP SHEET
 UNDERLAYMENT
 PLYWOOD SHEATHING
 WOOD TRUSSES
 BLANKET INSULATION (R-60)

ROOF TYPE 2
 STANDING SEAM METAL ROOF
 SLIP SHEET
 UNDERLAYMENT
 PLYWOOD SHEATHING
 AIR SPACE
 RIGID INSULATION (R-35)
 VAPOR RETARDER
 SHEATHING
 METAL DECK
 STEEL JOISTS

ROOF TYPE 3
 STANDING SEAM METAL ROOF
 SLIP SHEET
 UNDERLAYMENT
 PLYWOOD SHEATHING
 AIR SPACE
 RIGID INSULATION (R-35)
 VAPOR RETARDER
 SHEATHING
 WOOD JOISTS

ROOF TYPE 4
 STANDING SEAM METAL ROOF
 SLIP SHEET
 UNDERLAYMENT
 SHEATHING
 STEEL JOISTS

GENERAL NOTES - ROOF PLAN

- COORDINATE PENETRATIONS AND ROOF MOUNTED EQUIPMENT WITH MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DRAWINGS
- ALL ROOF PENETRATIONS SHALL BE SEALED WITH APPROPRIATE MATERIAL
- ALL EXPOSED METAL ELEMENTS TO BE PRE-FINISHED. COLOR AS SELECTED BY ARCHITECT
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON FINISHES & INSTALLATION REQUIREMENTS
- PROVIDE TAPERED INSULATION AS INDICATED FOR POSITIVE DRAINAGE
- ALL ROOFS ARE TO HAVE POSITIVE SLOPE TO ROOF DRAINS

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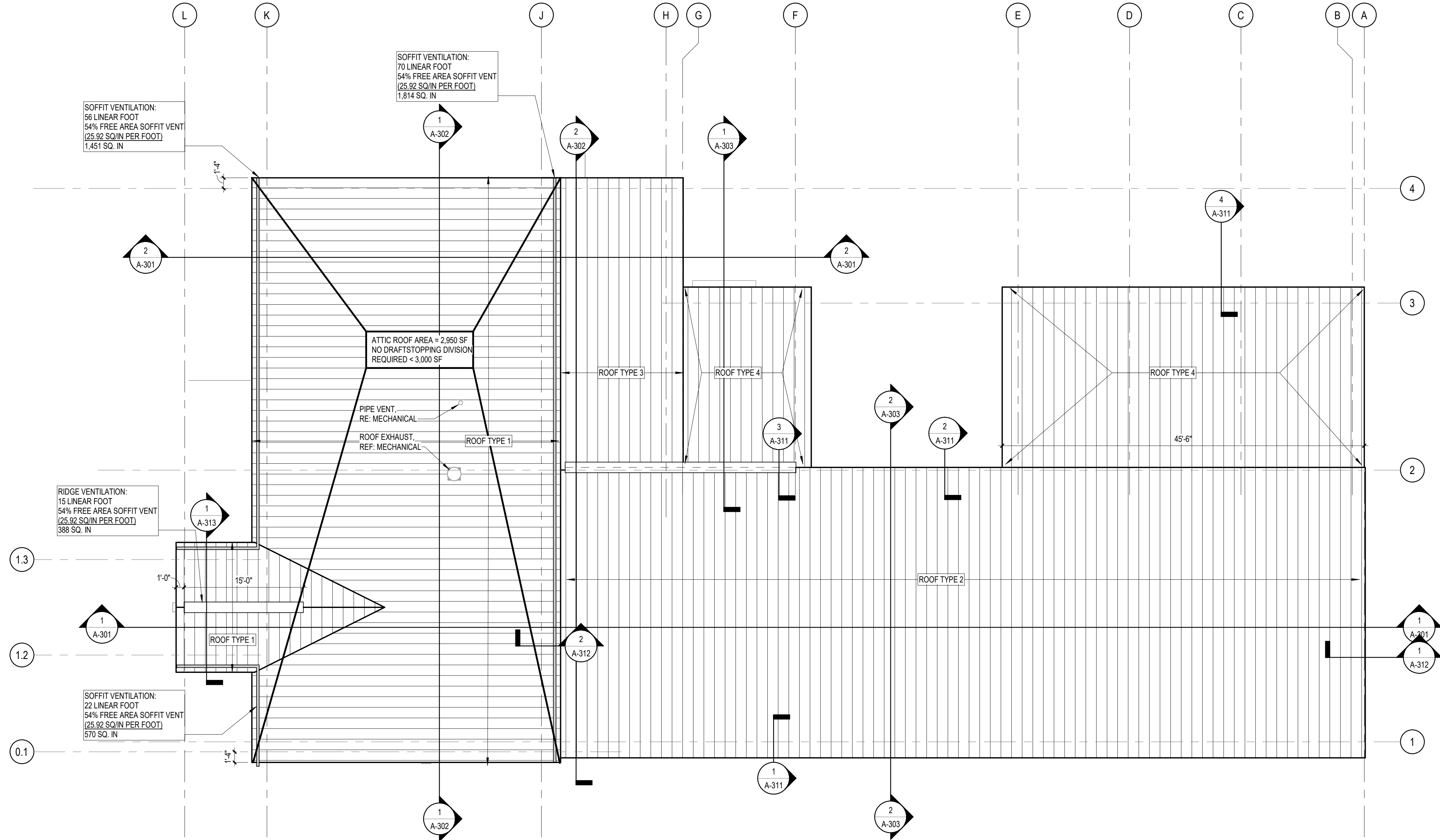
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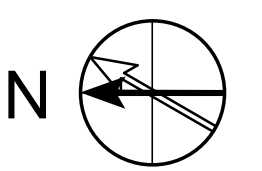


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1 ROOF PLAN
 1/8" = 1'-0"



SHEET A-121	IDENTIFICATION No. PROJECT FILE NUMBER 0860-17-0010 ACCOUNTING TEMP. 2359051110	ISSUED FOR	DESIGNED CO	DATE
		PRELIMINARY <input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> FINAL RECORD <input type="checkbox"/>	TD	03/10/2021
			DRAWN	CHECKED
			APPROVED	CO

GENERAL NOTES - ELEVATIONS

1. ALL PENETRATIONS SHALL BE SEALED WITH APPROPRIATE MATERIAL
2. ALL EXPOSED METAL ELEMENTS TO BE PRE-FINISHED, COLOR AS SELECTED BY ARCHITECT
3. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION ON FINISHES & INSTALLATION REQUIREMENTS

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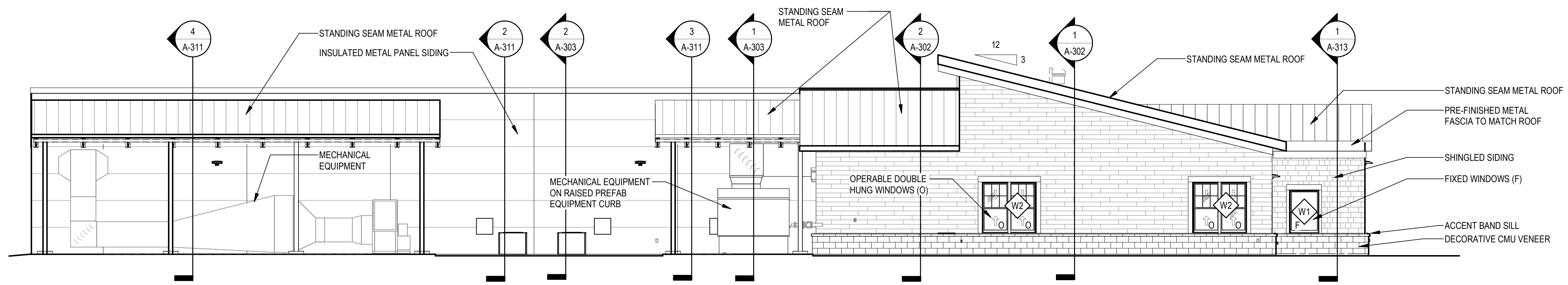
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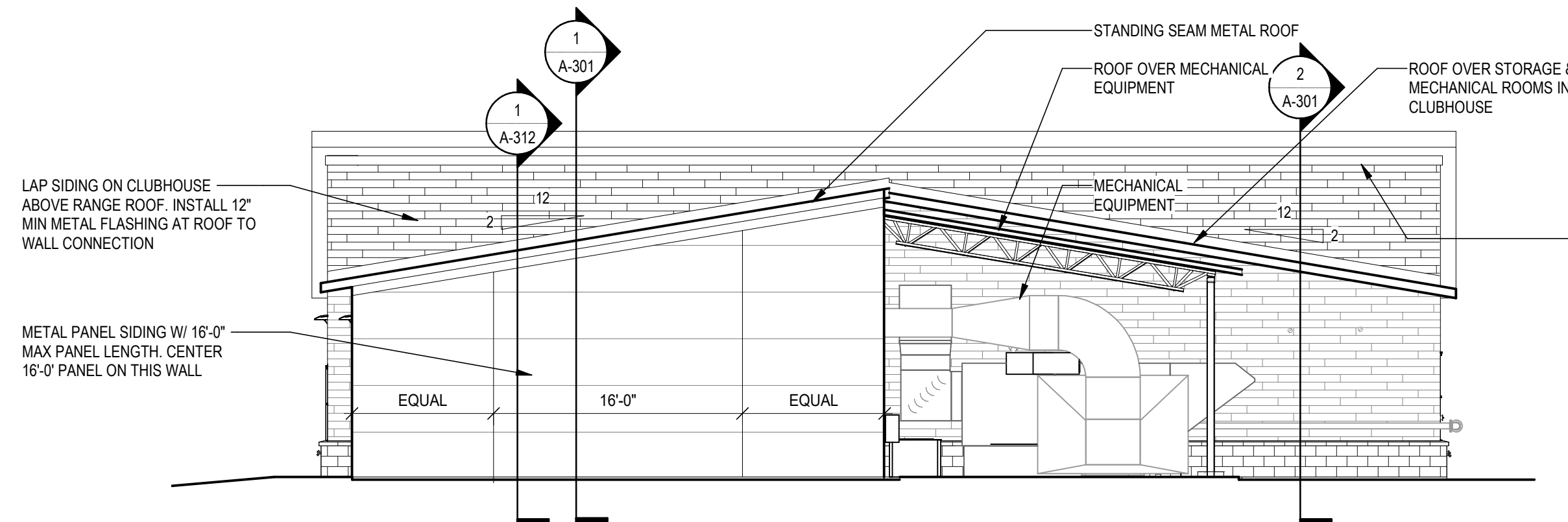


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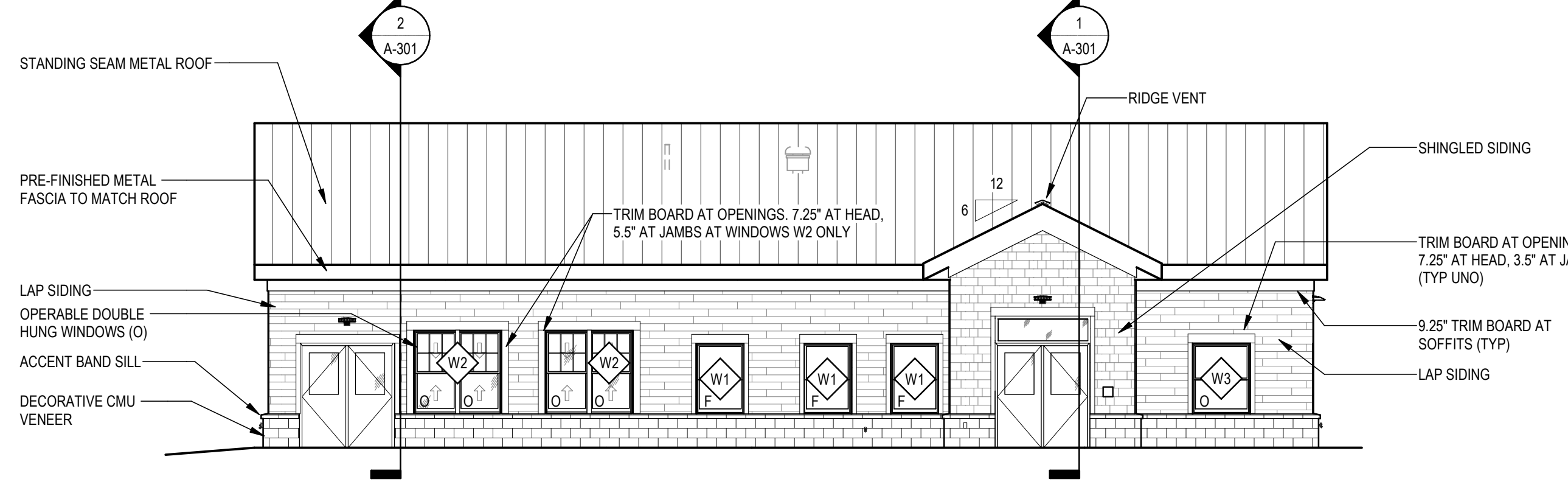
EXTERIOR ELEVATIONS
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY



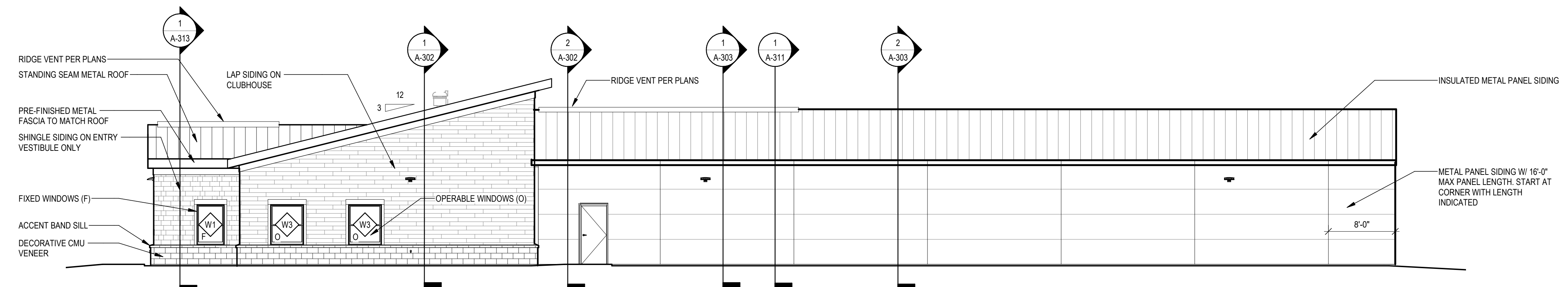
4 EAST ELEVATION
1/8" = 1'-0"



3 SOUTH ELEVATION
1/8" = 1'-0"



2 NORTH ELEVATION
1/8" = 1'-0"



1 WEST ELEVATION
1/8" = 1'-0"

SHEET	IDENTIFICATION No.	PROJECT FILE NUMBER 0860-17-0010	ACCOUNTING TEMP. 235905110	ISSUED FOR	DATE	DESIGNED	CO
				PRELIMINARY	03/10/2021	DRAWN	TD
A-201				CONSTRUCTION		CHECKED	JB
				FINAL RECORD		APPROVED	CO

3/10/2021 9:39:35 AM

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NOTE:
BUILDING SECTIONS ARE SIMPLIFIED TO SHOW MAIN
STRUCTURAL ELEMENTS AND SPATIAL REALTIONS
AND DO NOT REFLECT ALL DETAIL REQUIRED FOR
CONSTRUCTION. REFER TO WALL SECTIONS AND
DETAILS FOR MORE SPECIFIC INFORMATION

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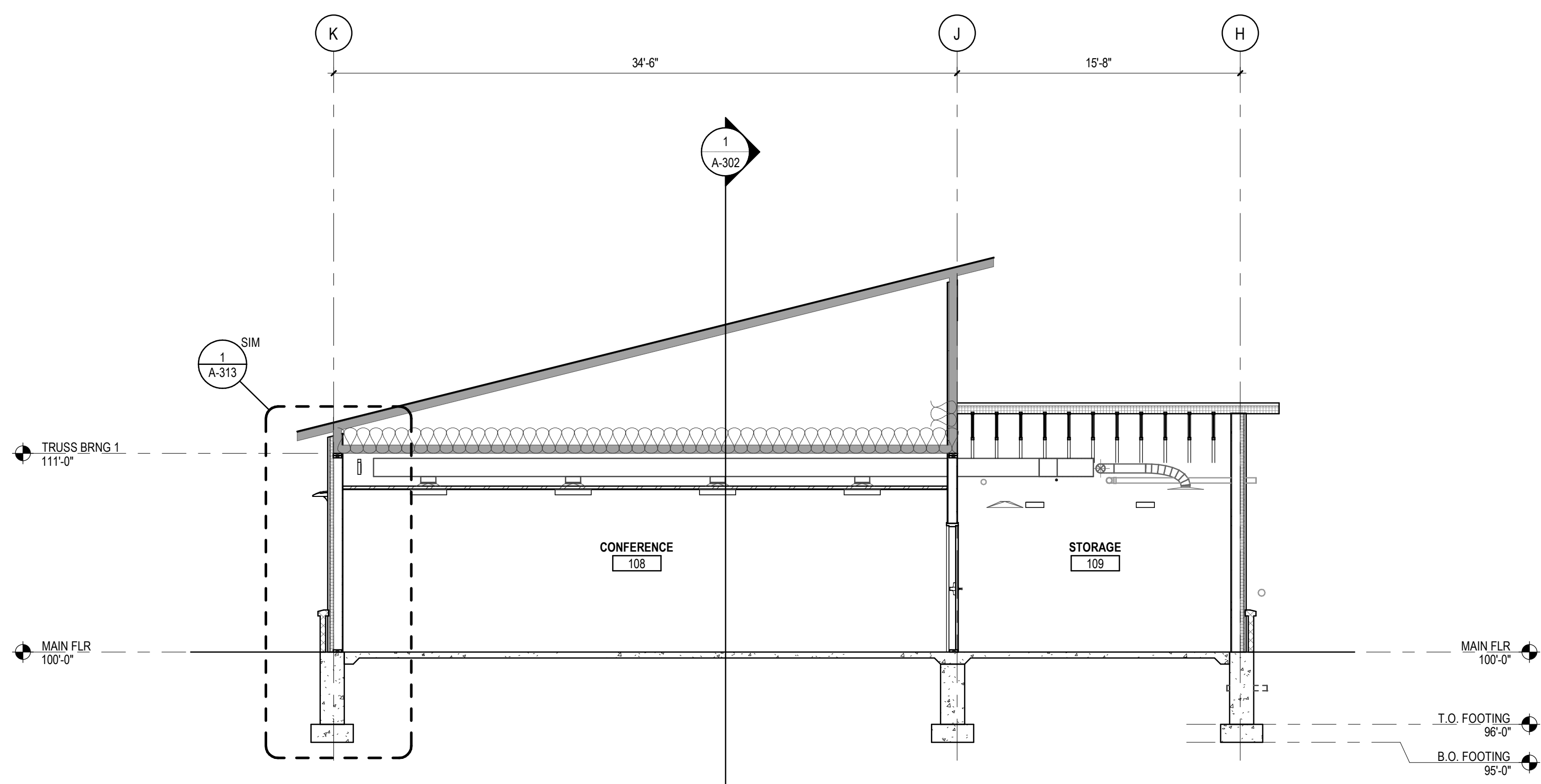


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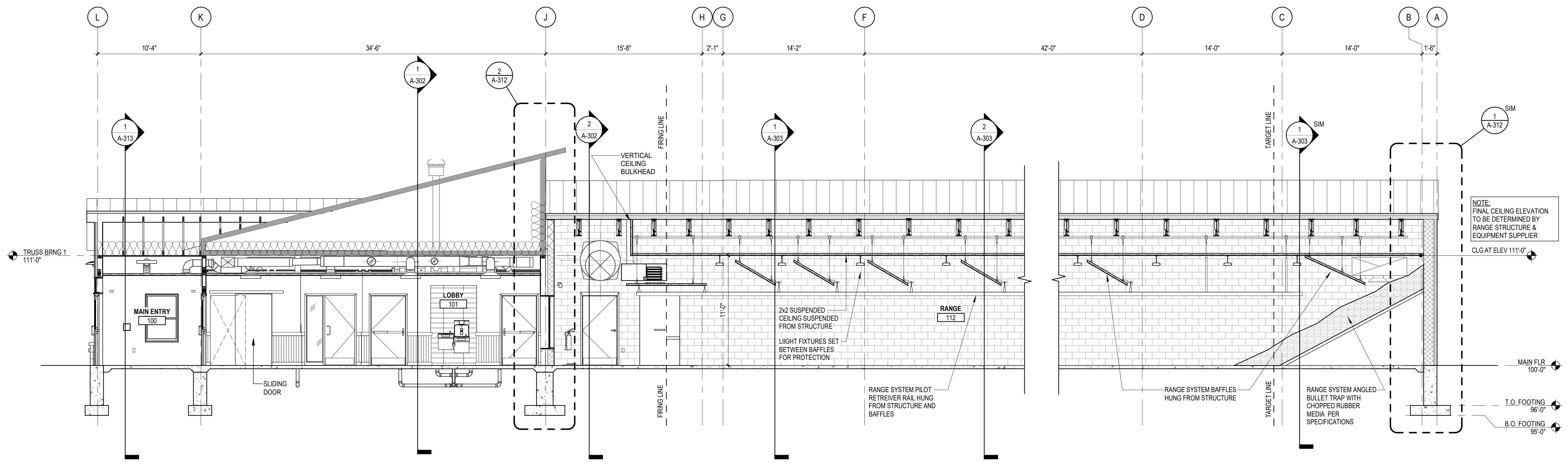
BUILDING SECTIONS

SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
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SHEET A-301	IDENTIFICATION No. PROJECT FILE NUMBER 0860-17-0010 ACCOUNTING TEMP. 235905110	ISSUED FOR	DATE	DESIGNED CO	TD
		PRELIMINARY CONSTRUCTION FINAL RECORD	03/10/2021	DRAWN	CHECKED
				APPROVED CO	



2 BUILDING SECTION AT CONFERENCE RM - LOOKING NORTH
3/16" = 1'-0"

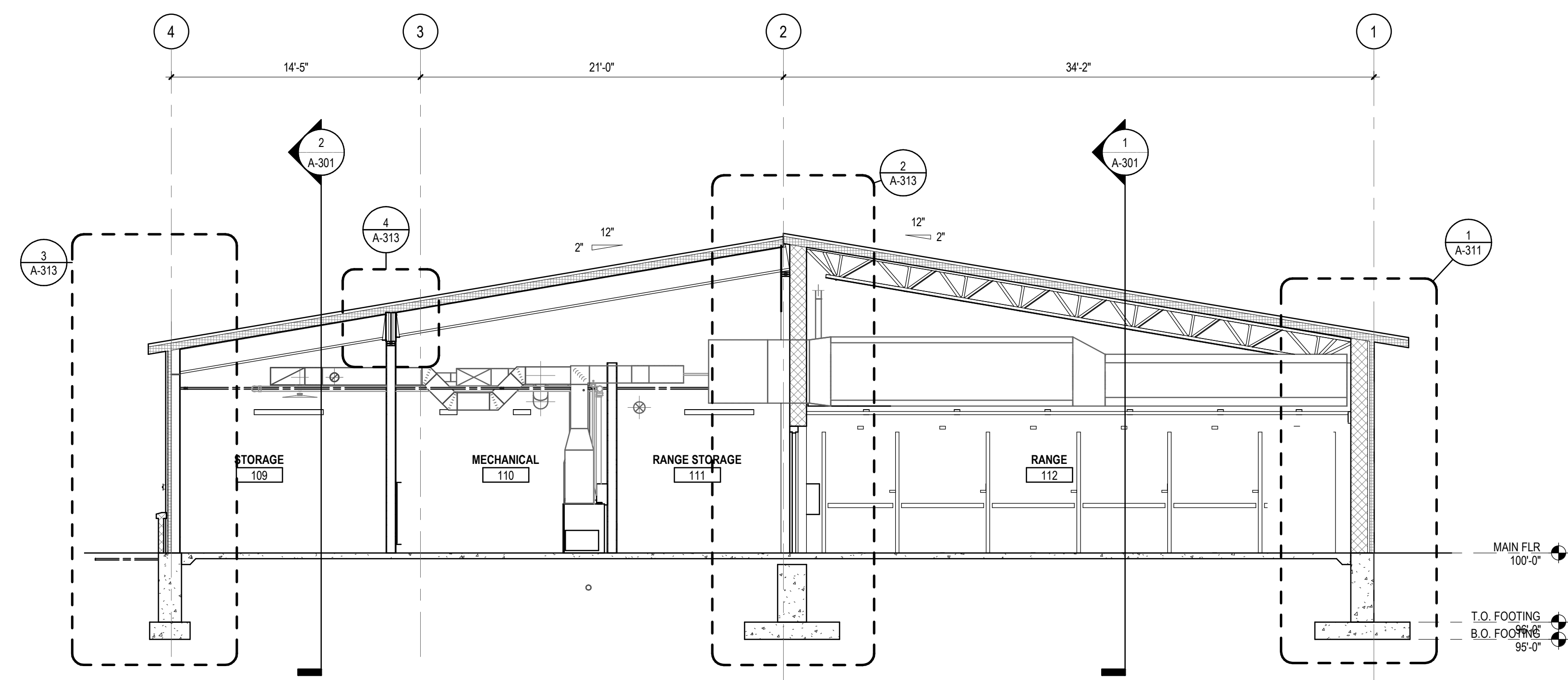


1 FULL BUILDING SECTION - LOOKING NORTH
3/16" = 1'-0"

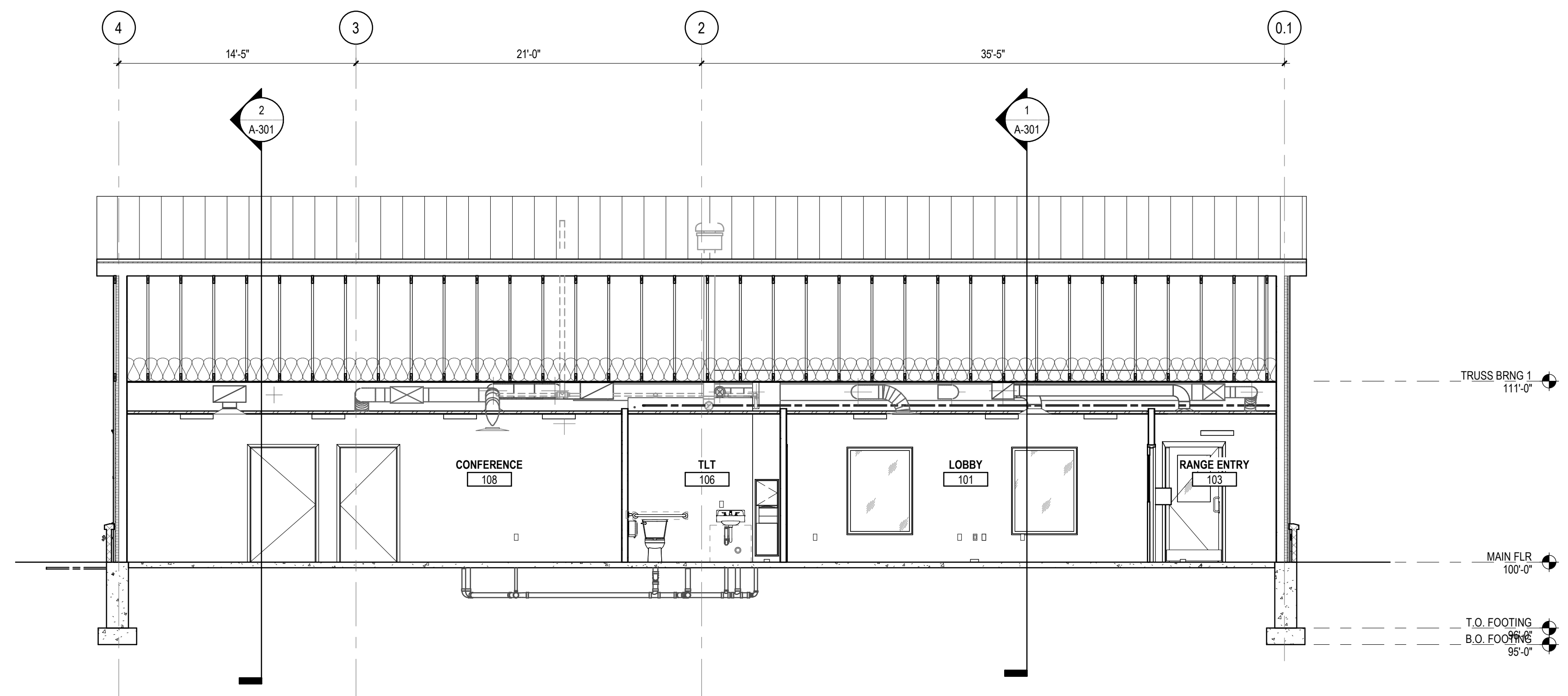
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NOTE:
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STRUCTURAL ELEMENTS AND SPATIAL REALTIONS
AND DO NOT REFLECT ALL DETAIL REQUIRED FOR
CONSTRUCTION. REFER TO WALL SECTIONS AND
DETAILS FOR MORE SPECIFIC INFORMATION



2 BUILDING SECTION AT STORAGE & RANGE - LOOKING EAST
3/16" = 1'-0"



1 BUILDING SECTION AT CLUBHOUSE - LOOKING EAST
3/16" = 1'-0"

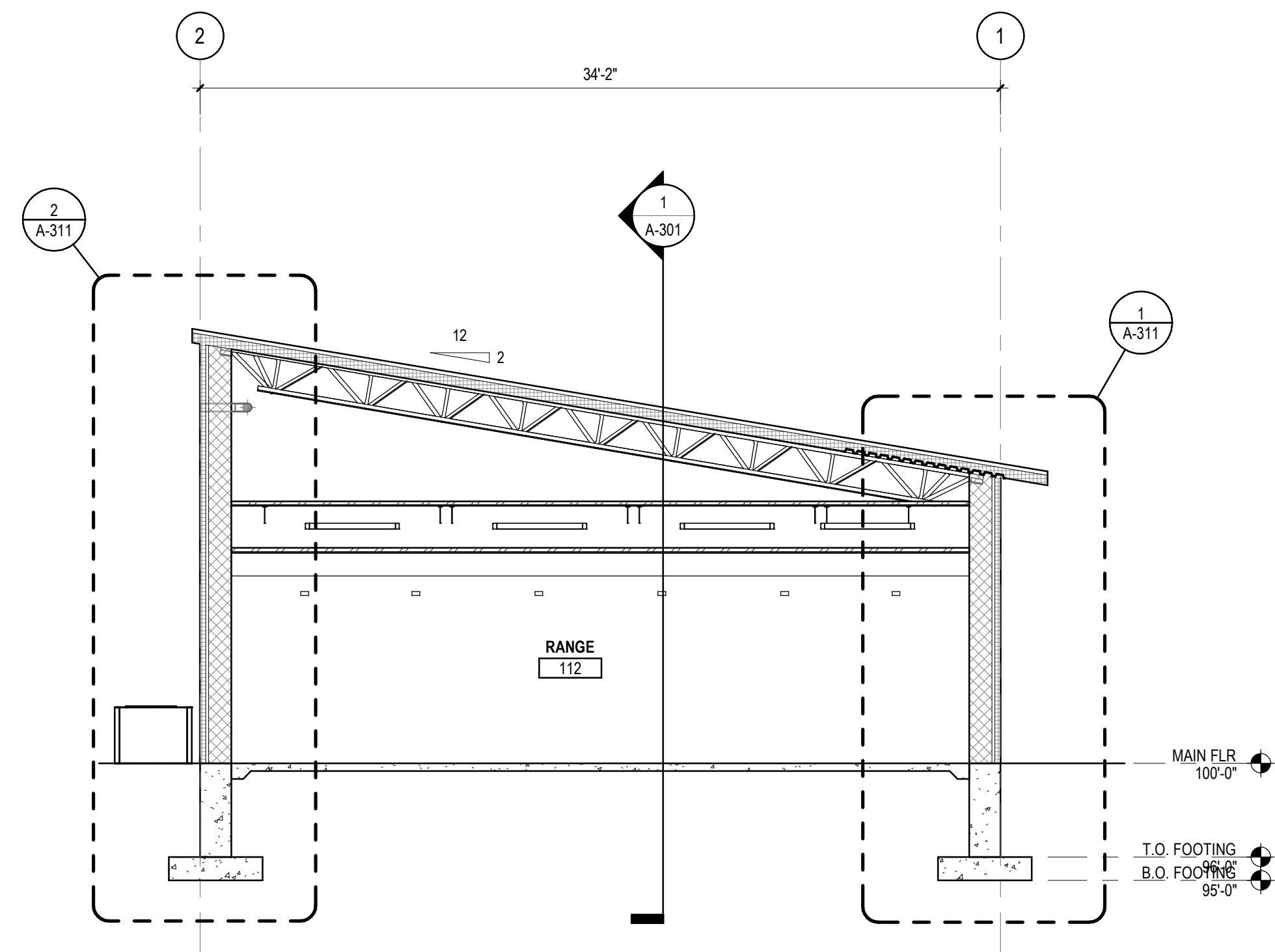
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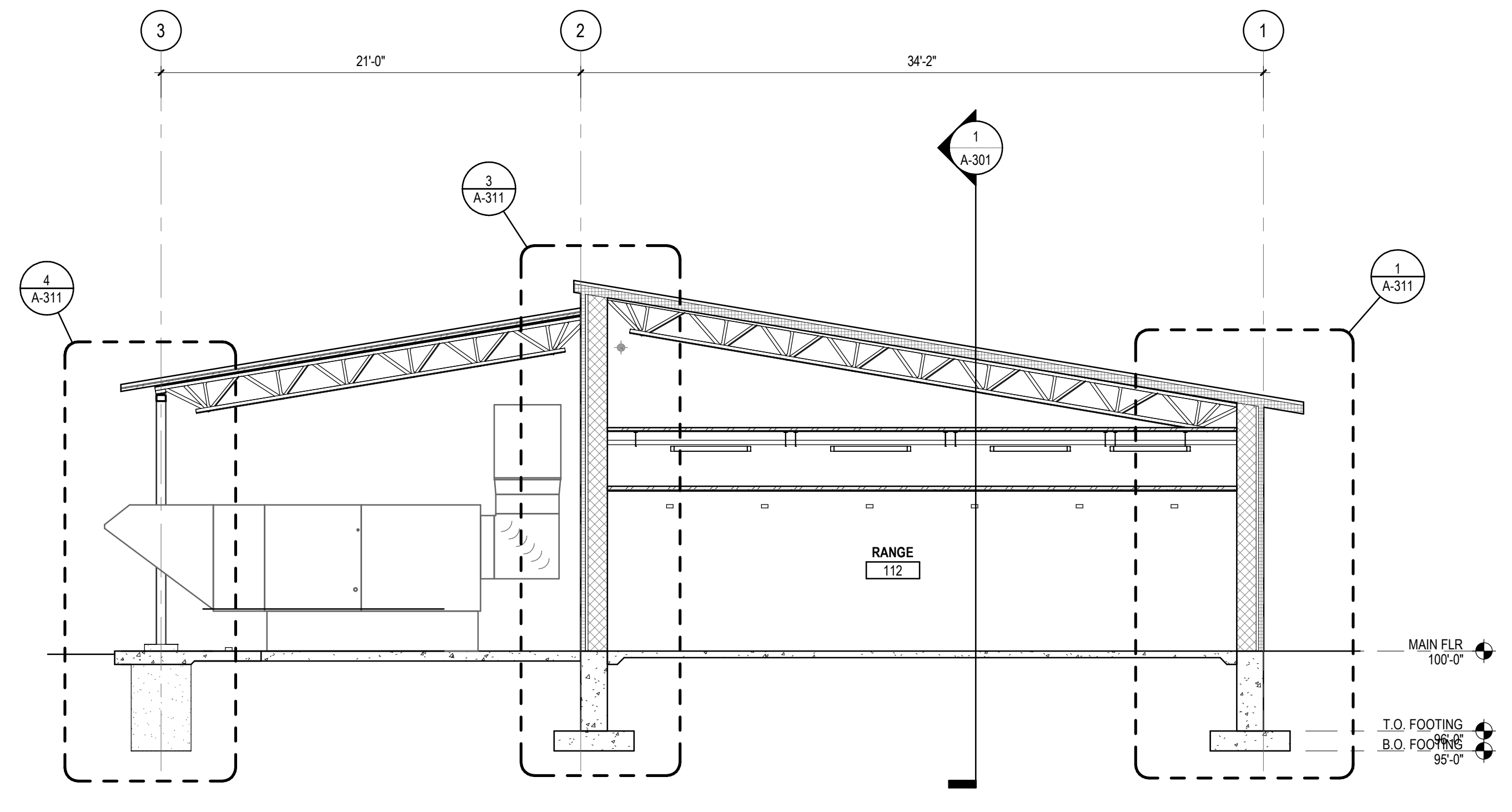
STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ROBERT C. HALL, RA, NCARB, DIRECTOR

BUILDING SECTIONS
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

SHEET A-302	IDENTIFICATION No. PROJECT FILE NUMBER 0850-17-0010 ACCOUNTING TEMP. 2339051110	ISSUED FOR	DATE	DESIGNED CO	DRAWN TD
		<input checked="" type="checkbox"/> PRELIMINARY <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> FINAL RECORD	03/10/2021		
				CHECKED	APPROVED CO



2 BUILDING SECTION AT RANGE - LOOKING EAST
3/16" = 1'-0"



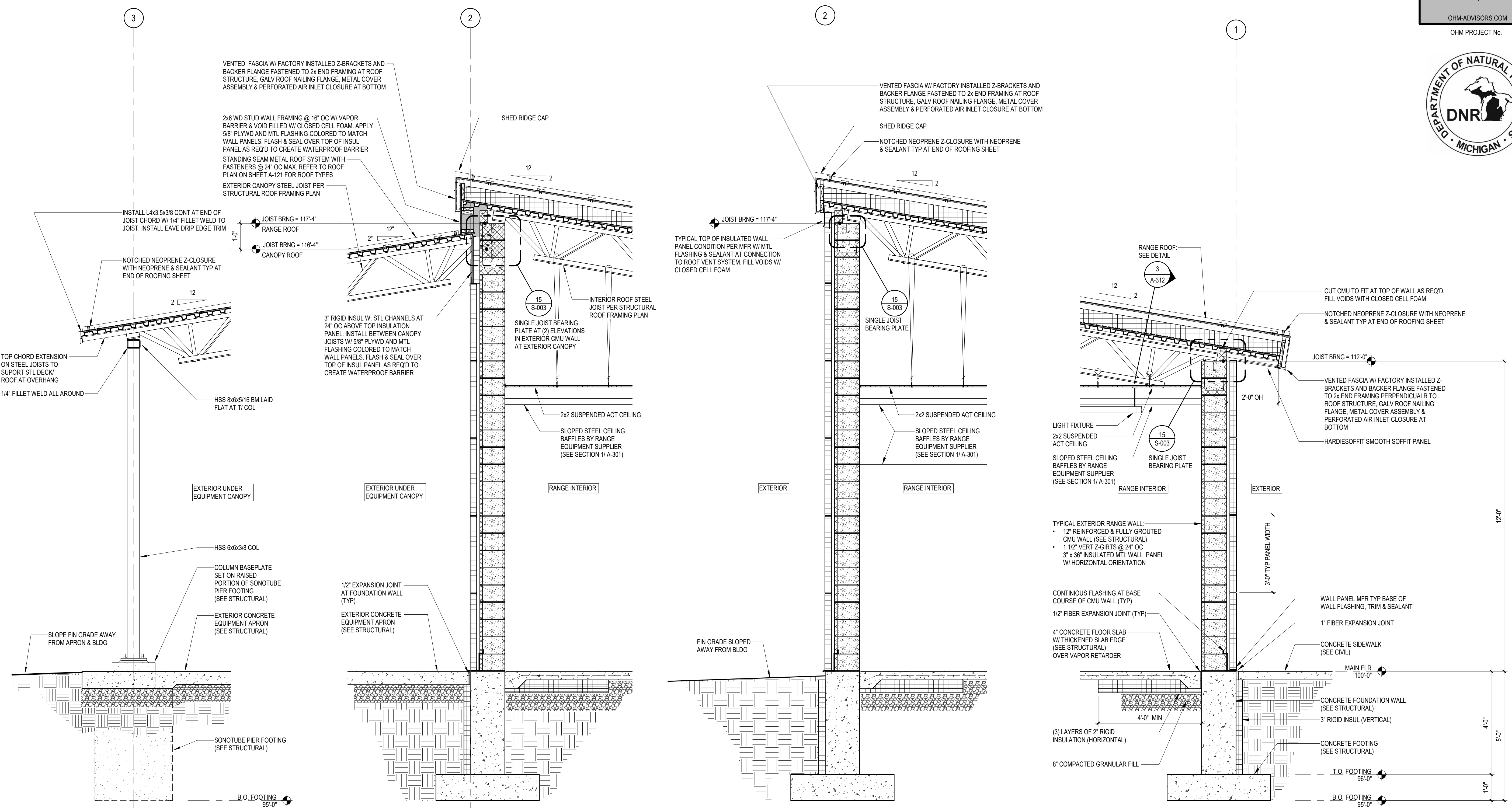
1 BUILDING SECTION - LOOKING EAST
3/16" = 1'-0"

NOTE:
BUILDING SECTIONS ARE SIMPLIFIED TO SHOW MAIN
STRUCTURAL ELEMENTS AND SPATIAL REALTIONS
AND DO NOT REFLECT ALL DETAIL REQUIRED FOR
CONSTRUCTION. REFER TO WALL SECTIONS AND
DETAILS FOR MORE SPECIFIC INFORMATION



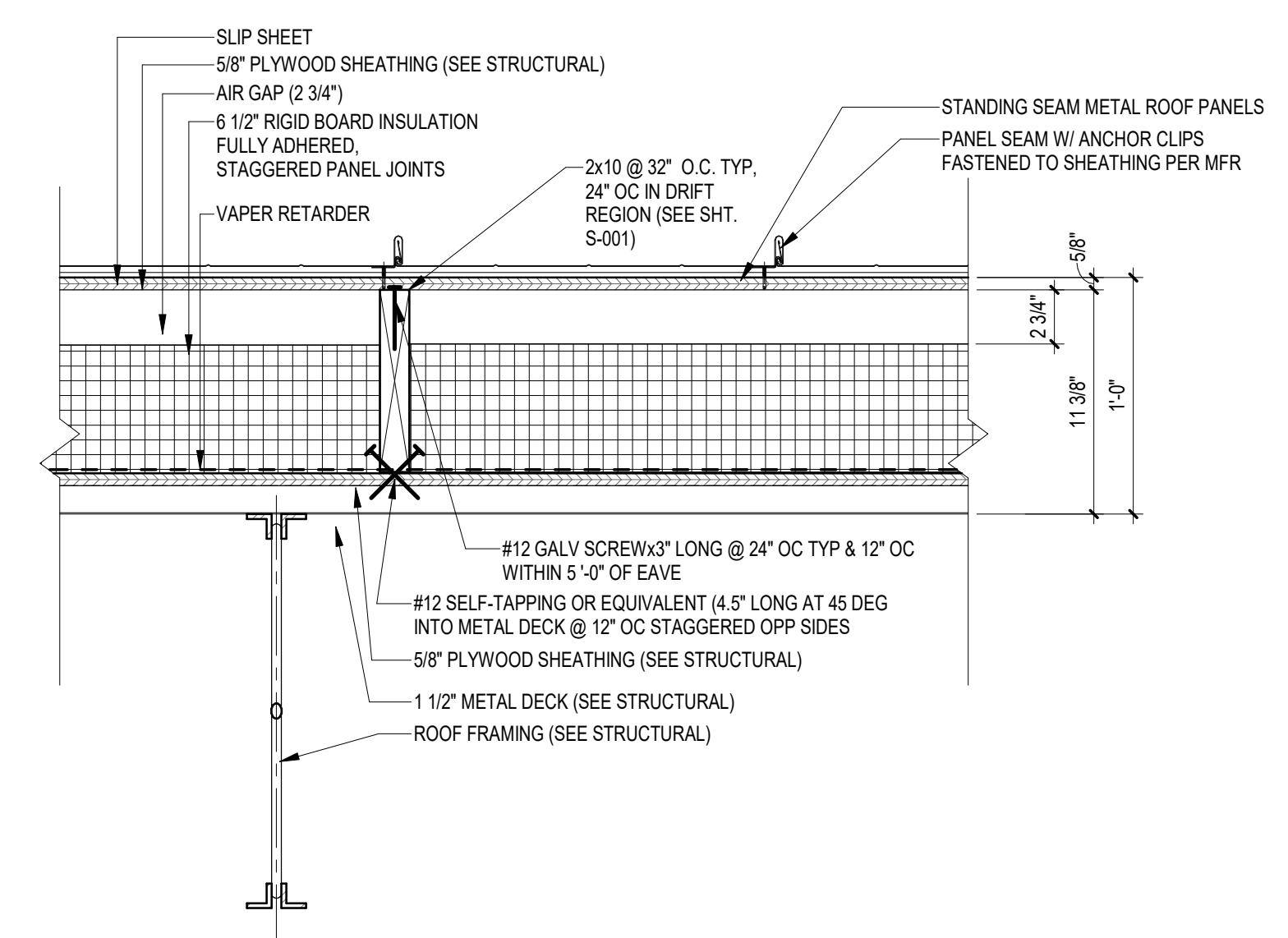
BUILDING SECTIONS
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

SHEET A-303	IDENTIFICATION No. PROJECT FILE NUMBER 0850-17-0010 ACCOUNTING TEMP. 233905110	ISSUED FOR	DATE	DESIGNED	CO
		PRELIMINARY CONSTRUCTION FINAL RECORD	03/10/2021	DRAWN CHECKED APPROVED	TD JB CO

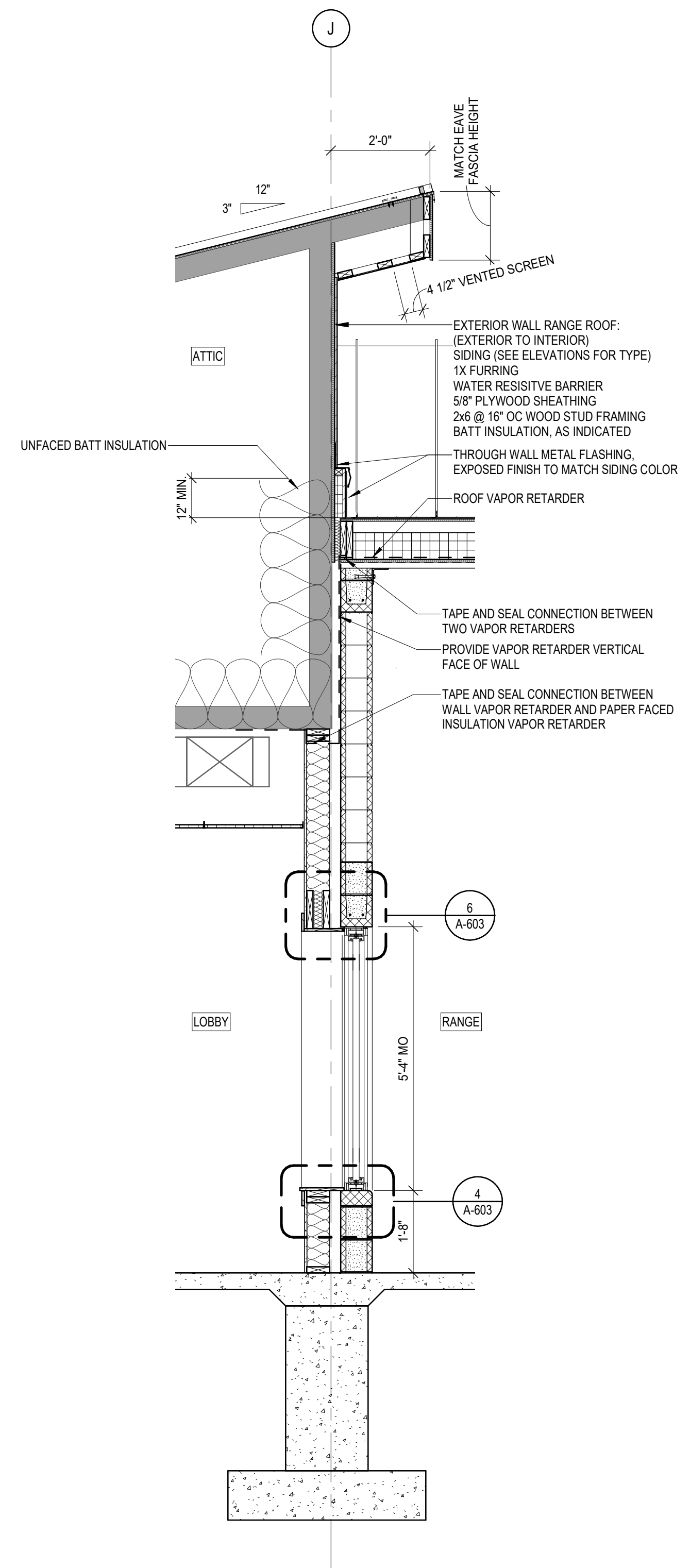


SHEET A-312	IDENTIFICATION No. PROJECT FILE NUMBER 0850-17-0010 ACCOUNTING TEMP. 2359051110	ISSUED FOR	DATE	DESIGNED CO	DRAWN	TD
		PRELIMINARY	03/10/2021		CHECKED	JB
		CONSTRUCTION				APPROVED CO
		FINAL RECORD				

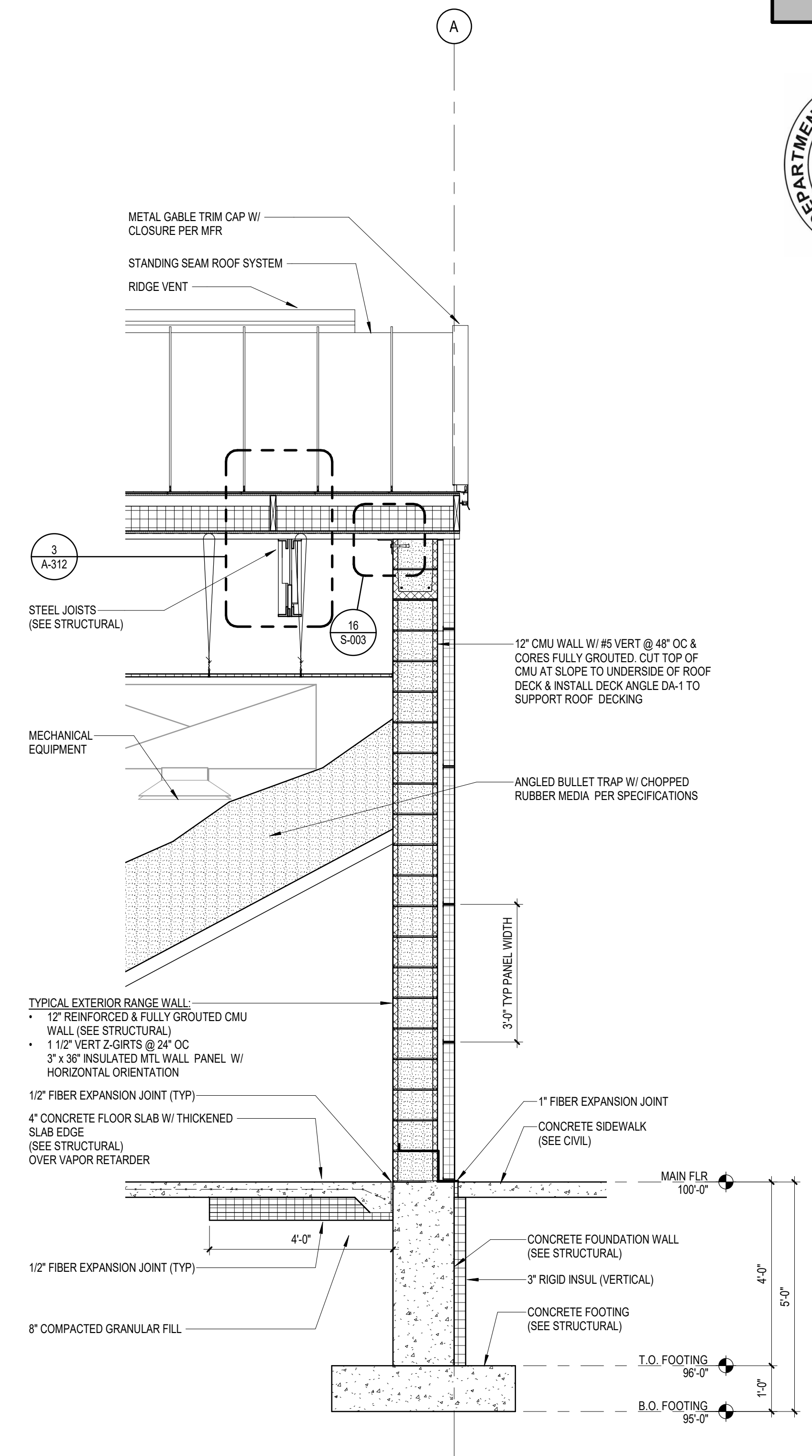
3 RANGE ROOF SYSTEM
1/2" = 1'-0"



2 SECTION AT CLUBHOUSE & RANGE DIVISION WALL
1/2" = 1'-0"



1 SECTION AT RANGE - SOUTH END
1/2" = 1'-0"



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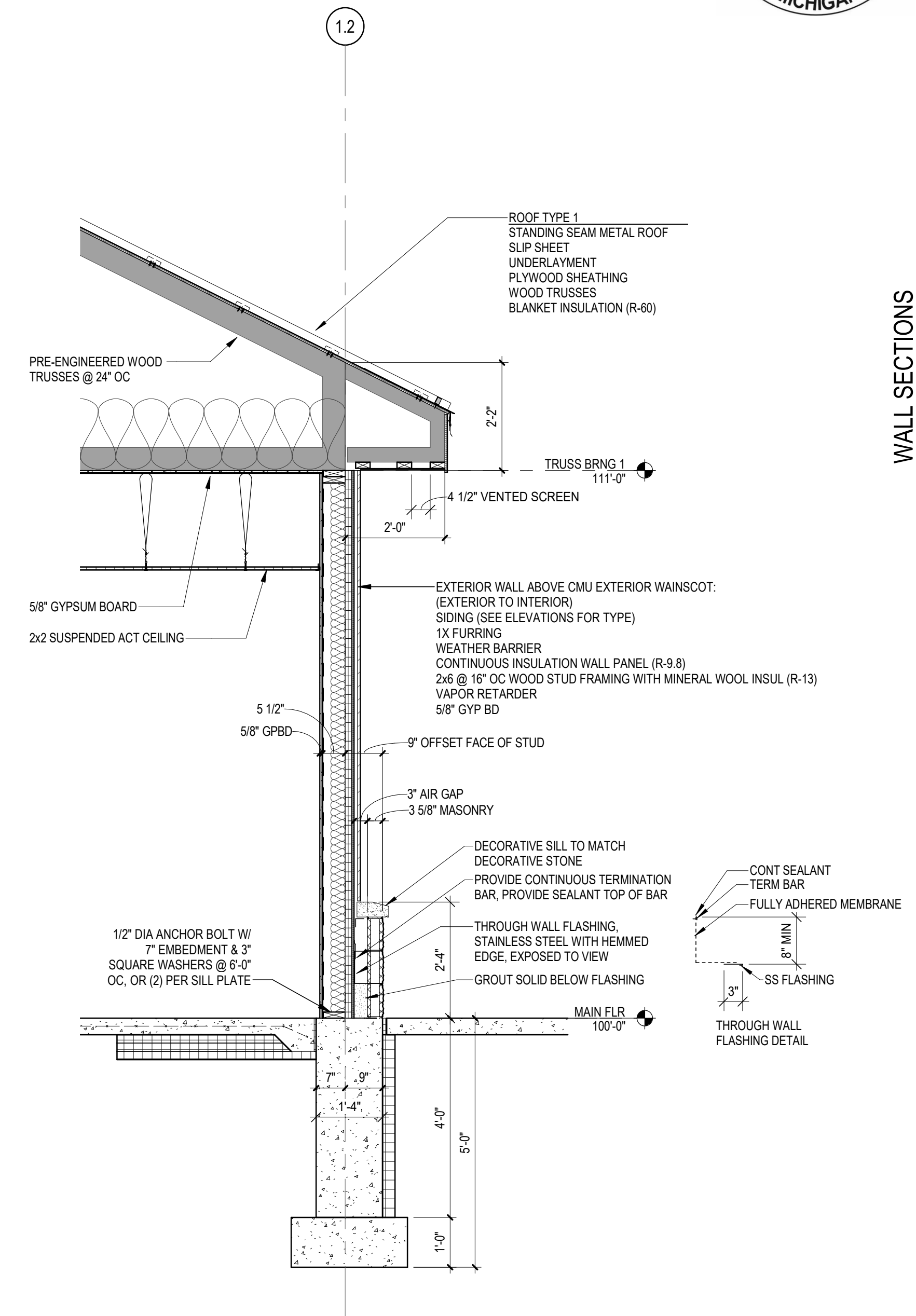
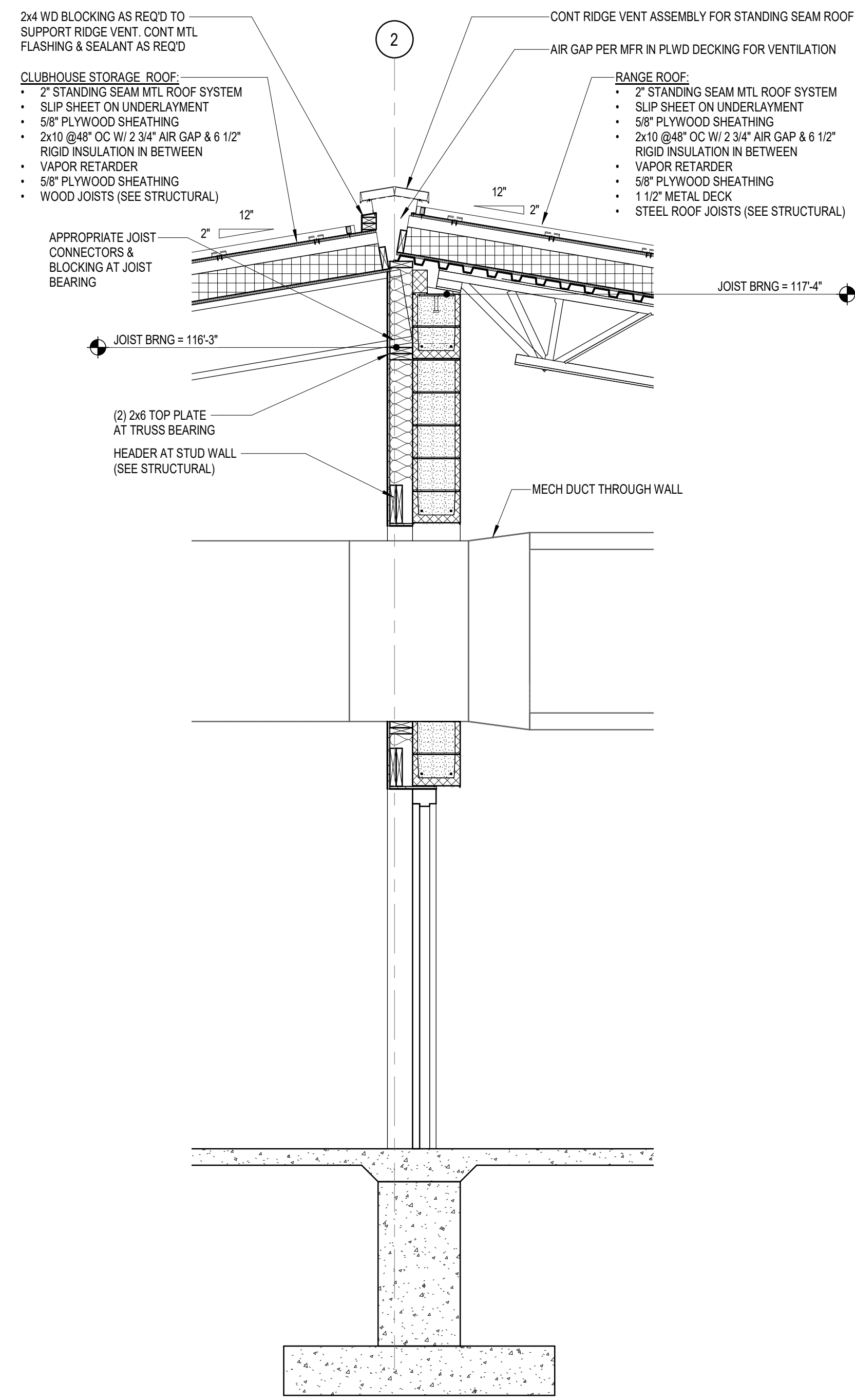
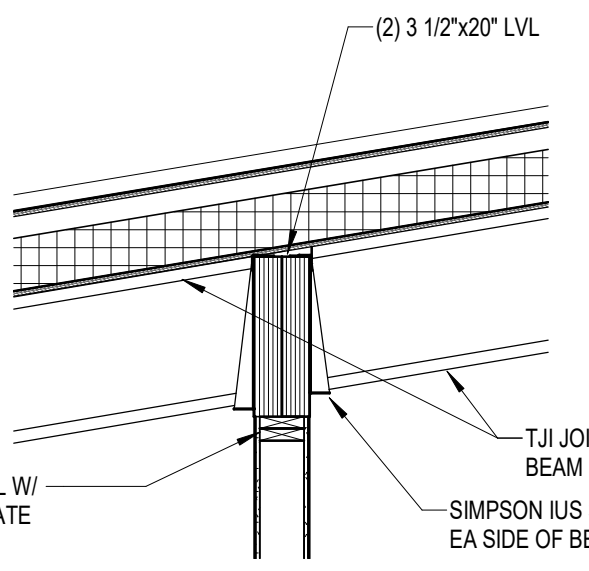
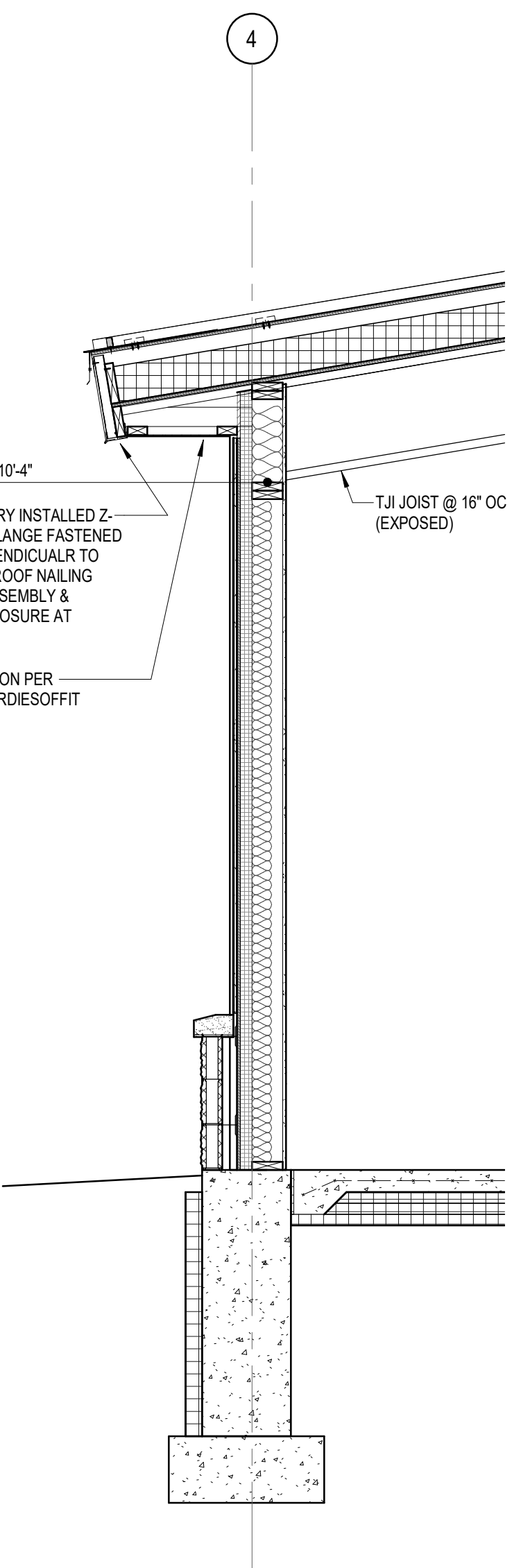
OHM PROJECT No.

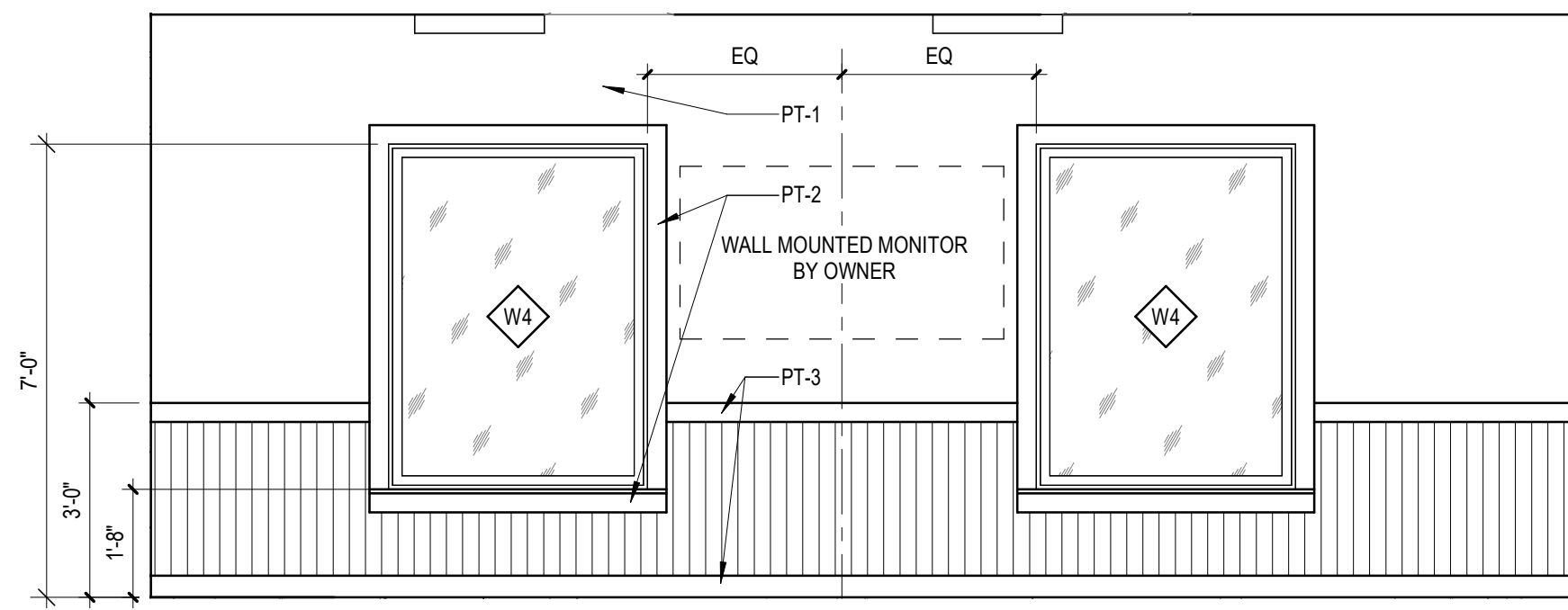


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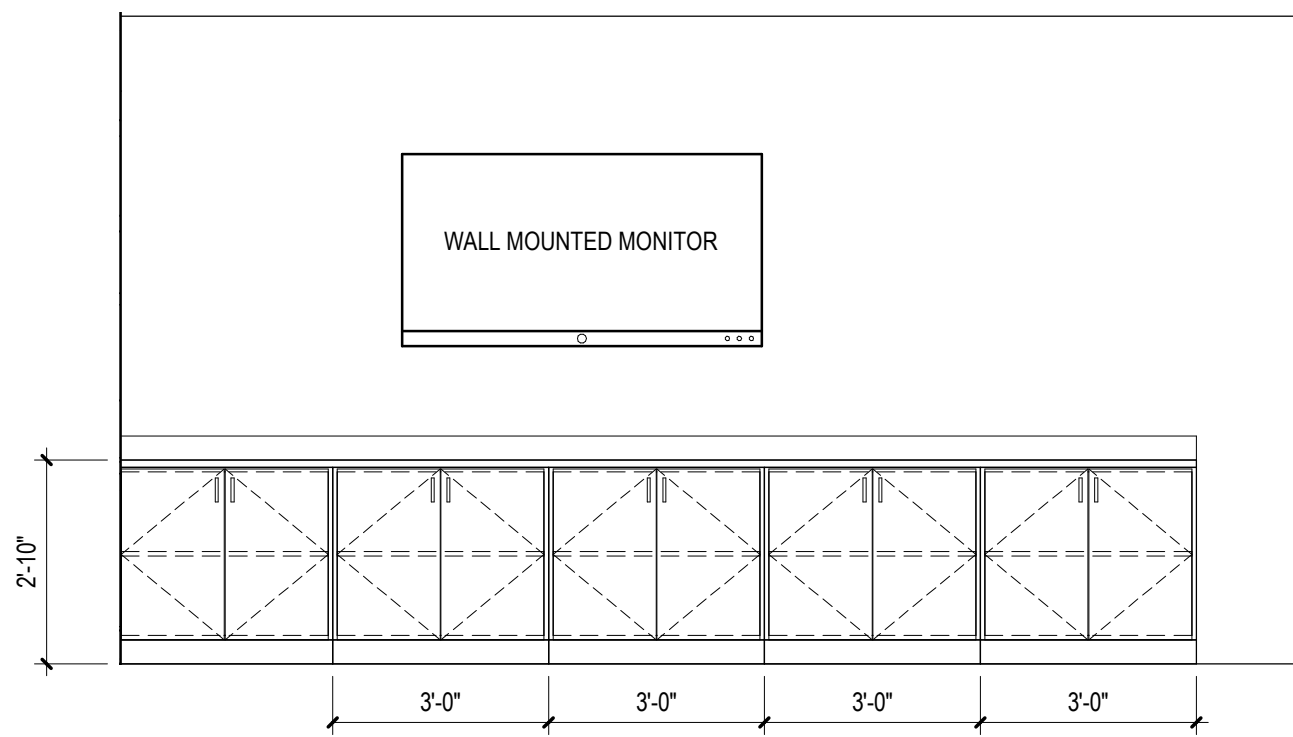
WALL SECTIONS
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

SHEET A-313	IDENTIFICATION No.	PROJECT FILE NUMBER 0850-17-0010	ISSUED FOR	DATE	DESIGNED CO
	ACCOUNTING TEMP. 235905110	PRELIMINARY <input checked="" type="checkbox"/>	CONSTRUCTION <input type="checkbox"/>	03/10/2021	Author
		FINAL RECORD <input type="checkbox"/>			Checked JB
					APPROVED TW

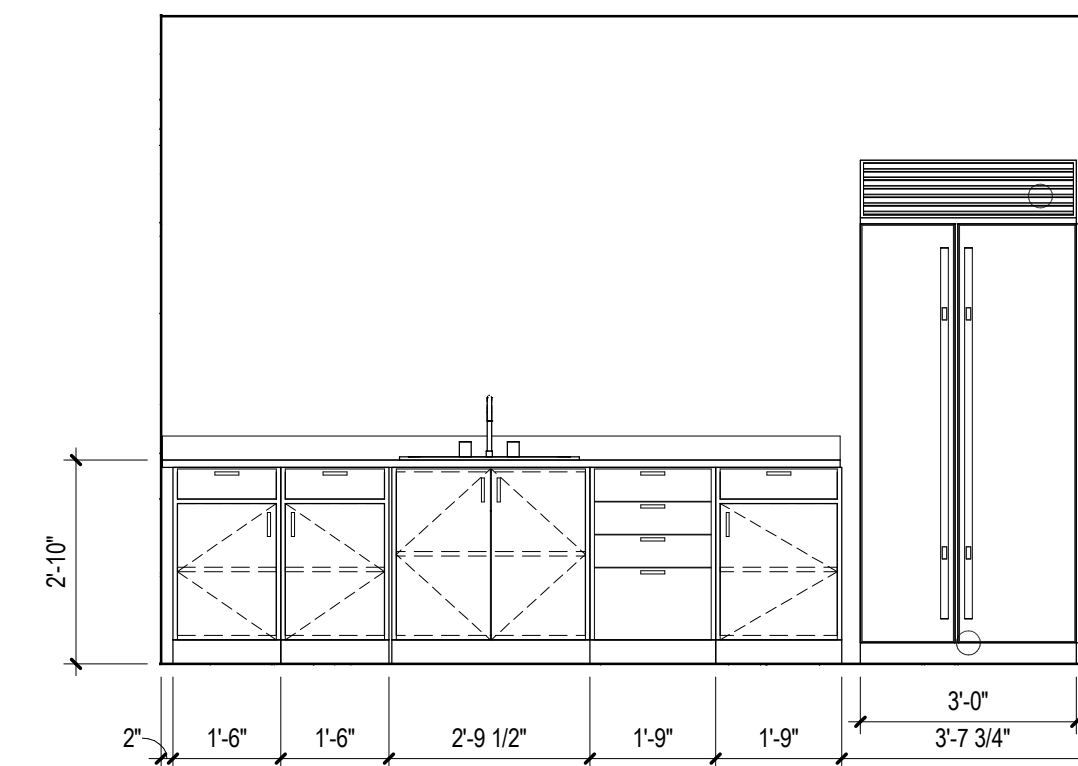




3 LOBBY WALL FACING SHOOTING RANGE
3/8" = 1'-0"



2 CONFERENCE ROOM ELEVATION
3/8" = 1'-0"



1 KITCHEN WALL ELEVATION
3/8" = 1'-0"

GENERAL NOTES - CASEWORK

- CABINET WIDTHS TO BE BASED ON MODULE INCREMENTS OF 3" UNO.
- PROVIDE FILLER PANELS TO FINISH OUT TO SCRIBE CABINETS TO WALL.
- PROVIDE FILLER PANELS AND TRIM WHERE EQUIPMENT IS LOCATED WITHIN CABINETS.
- PROVIDE FINISHED END PANELS END RETURNS AT OPEN ENDED CABINETS, KNEE SPACES, AND ACCESSIBLE SINKS.
- PROVIDE 1 1/2" THICK FINISHED END PANEL AT FREE STANDING END OF ACCESSIBLE SINKS AND KNEE SPACES.
- WHEN FILLER PANELS ARE REQUIRED AT BOTH ENDS OF CASEWORK TERMINATION, BOTH FILLER PANELS SHALL BE EQUAL WIDTH.
- PROVIDE WALL BRACKET SUPPORTS AT 36" OC MAX TO SUPPORT COUNTERTOP AT CONTINUOUS KNEE SPACE.
- PROVIDE END SPLASH WHEN COUNTERTOP IS ADJACENT TO WALL AT SIDES.
- PROVIDE HOLES FOR GROMMETS IN COUNTERTOPS AND AT THE FOLLOWING LOCATIONS:
 - 1 EACH WIRE ACCESS HOLE WITH GROMMET AT KNEE SPACE.
 - 1 WIRE ACCESS HOLES WITH GROMMETS AT 36" OC FOR CONTINUOUS RUNS OF KNEE SPACE.
 - 1 WIRE ACCESS GROMMET BEHIND EACH KEYBOARD DRAWER.
 - 1 COMPUTER PAPER SLOT GROMMET BEHIND EACH PRINTER.
- PROVIDE ADJUSTABLE SHELVES IN CABINETS AT THE FOLLOWING LOCATIONS UNO ON ELEVATIONS
 - BASE CABINET - 1 SHELF
 - FULL HEIGHT CABINET - 5 SHELVES, 1 FIXED
 - WALL CABINET - 1 SHELF AT 24" HIGH, 2 SHELVES AT TALLER CABINETS
 - NOTE: SHELVES TO BE 3/4" THICK FOR SPANS UP TO 32" AND 1" THICK FOR SPANS UP TO 36"
- GLASS FRONTS TO BE 1/2" THICK CLEAR TEMPERED GLASS UNO.
- PROVIDE AN APRON AT ALL KNEE SPACES 30" OR HIGHER UNO.

CASEWORK LEGEND

CASEWORK INDICATOR	
	CABINET TYPE (SEE ABBREVIATIONS BELOW)
	WIDTH IN INCHES (TWO DIGITS)
	HEIGHT IN INCHES (TWO DIGITS)
	DEPTH IN INCHES (TWO DIGITS), IF DIFF. FROM TYPICAL
	SPECIAL CONDITION (SEE ABBREVIATIONS BELOW)
	CABINET TYPES
	SPECIAL CONDITIONS
	ACCESSIBLE CABINETS

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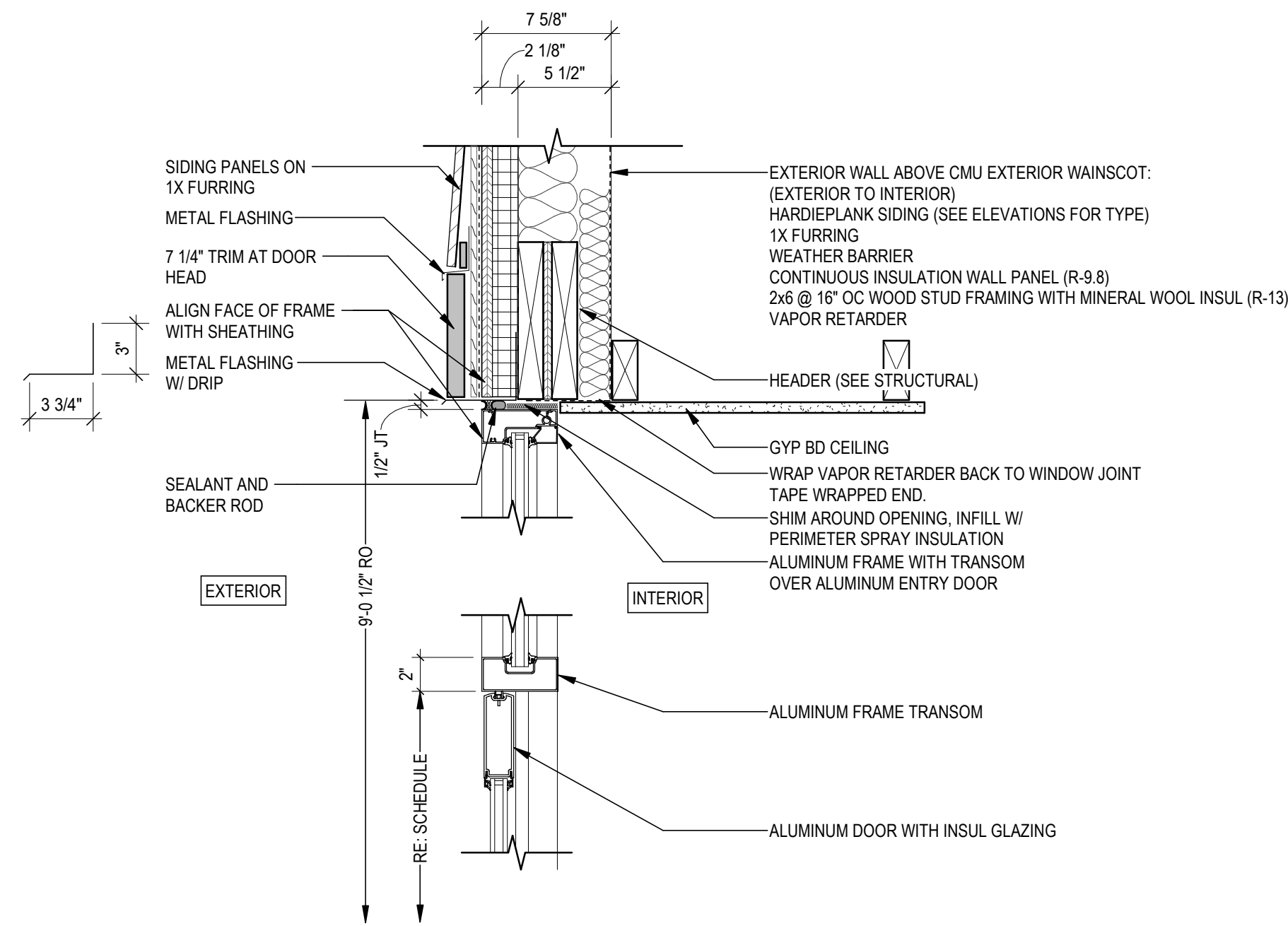
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STATE FACILITIES ADMINISTRATION
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INTERIOR ELEVATIONS
SHOOTING COMPLEX
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WESTERN PENINSULA SHOOTING FACILITY

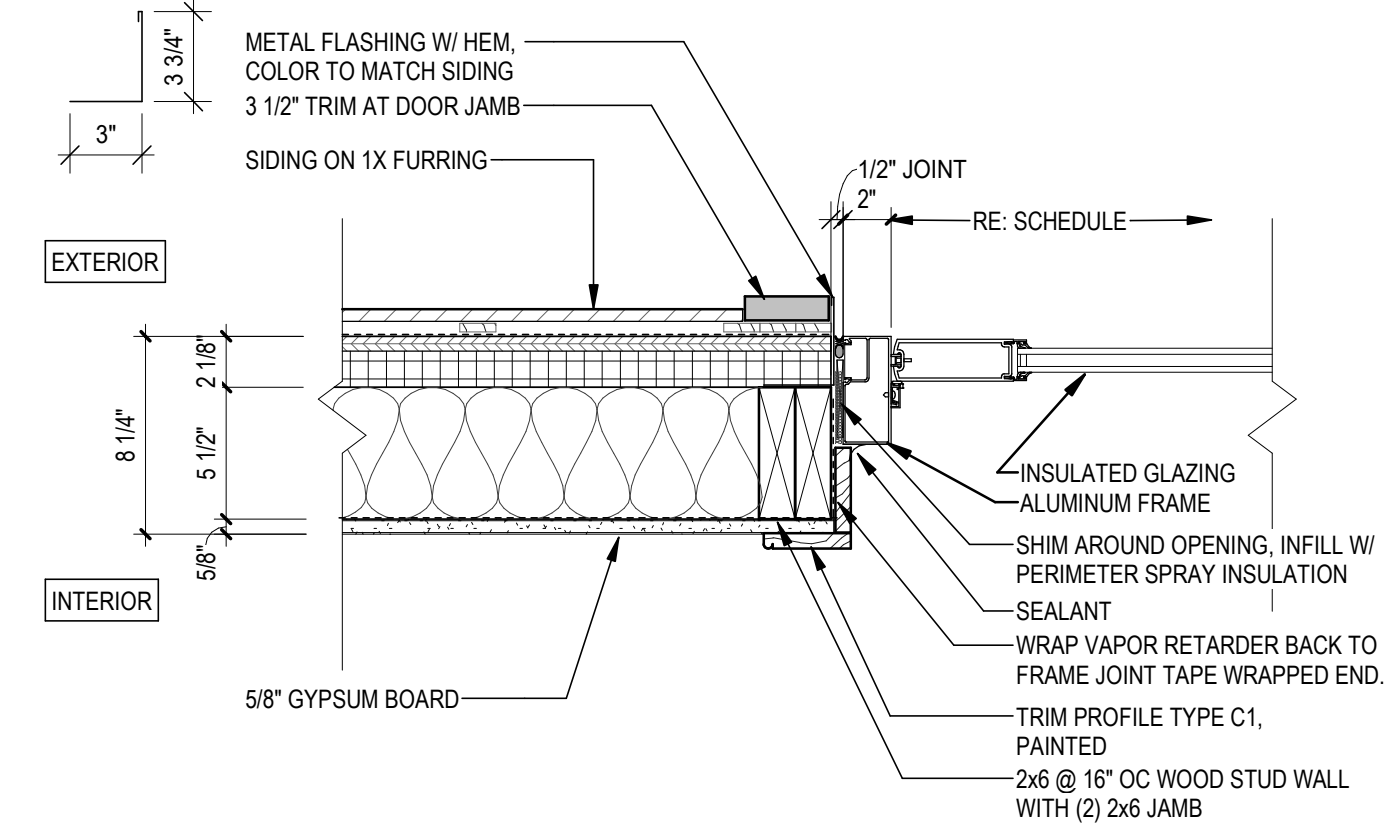
DESIGNED	CO
DRAWN	TD
CHECKED	JB
APPROVED	CO

ISSUED FOR	DATE
<input checked="" type="checkbox"/> PRELIMINARY	03/10/2021
<input type="checkbox"/> CONSTRUCTION	
<input type="checkbox"/> FINAL RECORD	

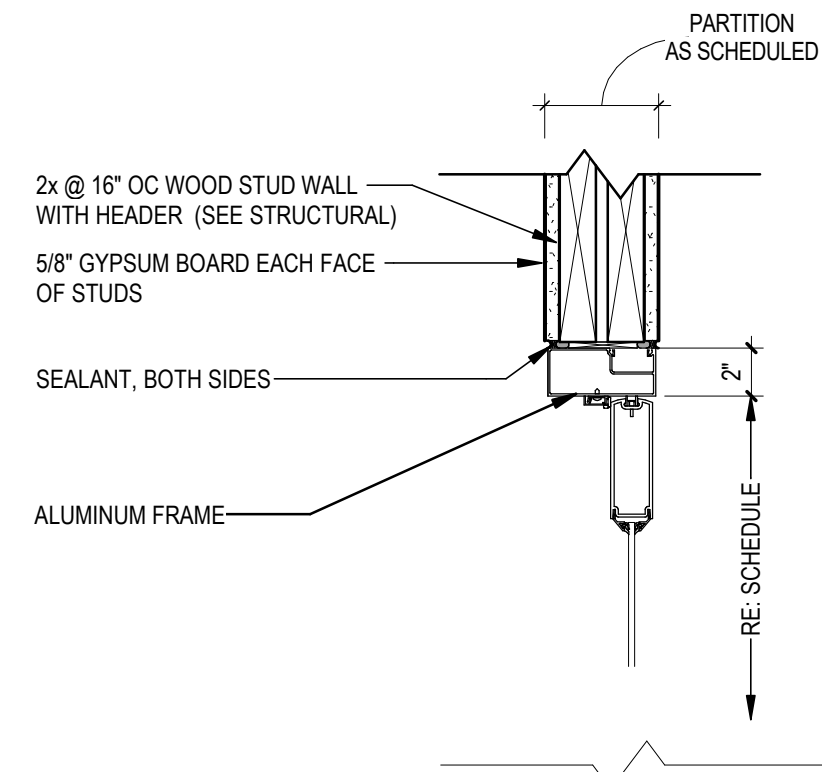
SHEET	IDENTIFICATION No.
A-451	PROJECT FILE NUMBER 0850-17-0010 ACCOUNTING TEMP. 2359051110



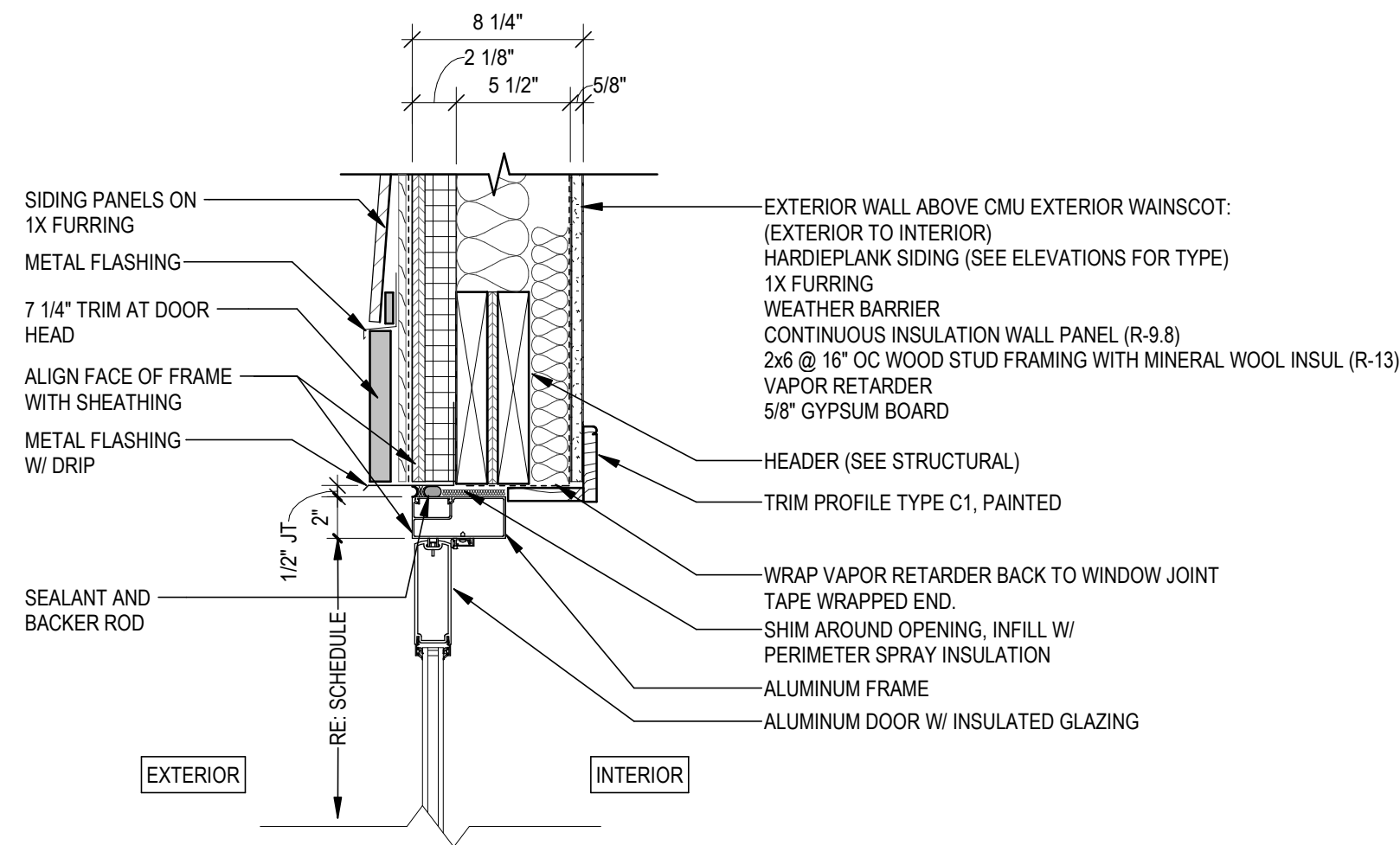
7 ALUM FRAME ENTRY HEAD DETAIL
1 1/2" = 1'-0"



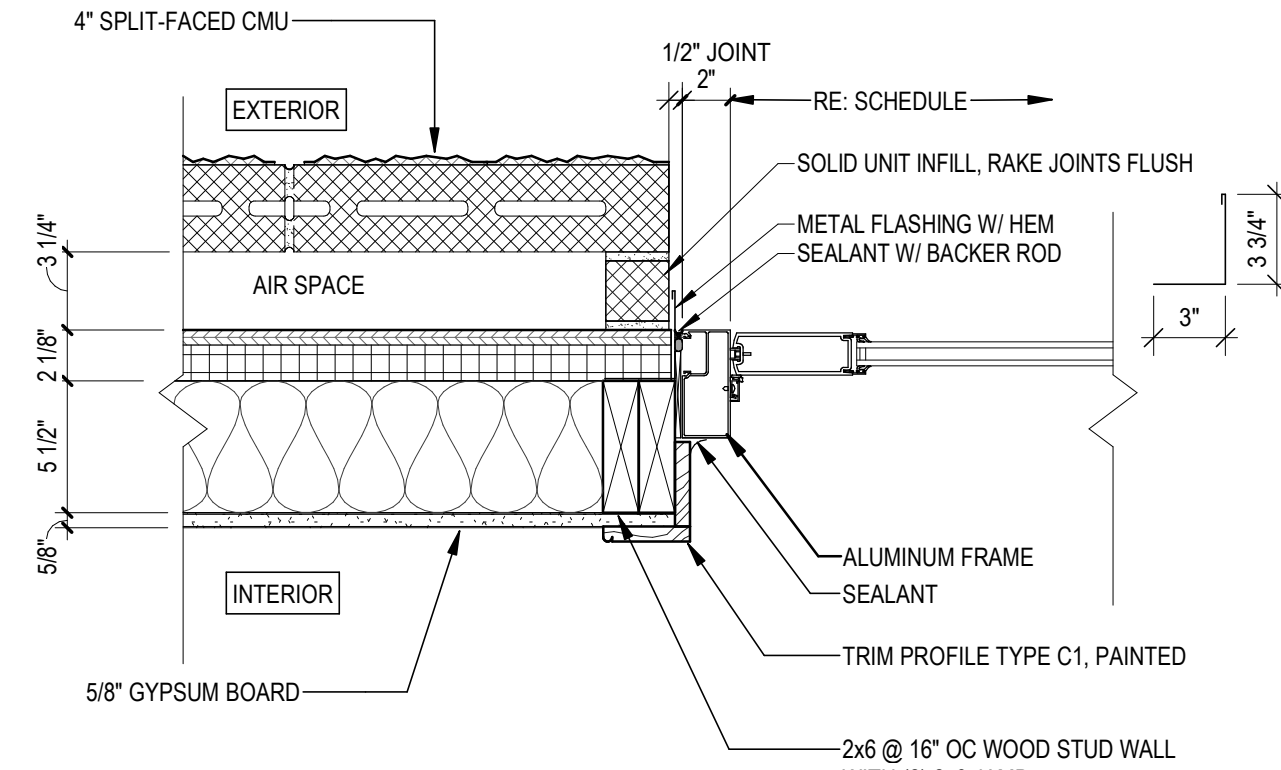
6 JAMB - ALUM - FRAMED - ABOVE CMU
1 1/2" = 1'-0"



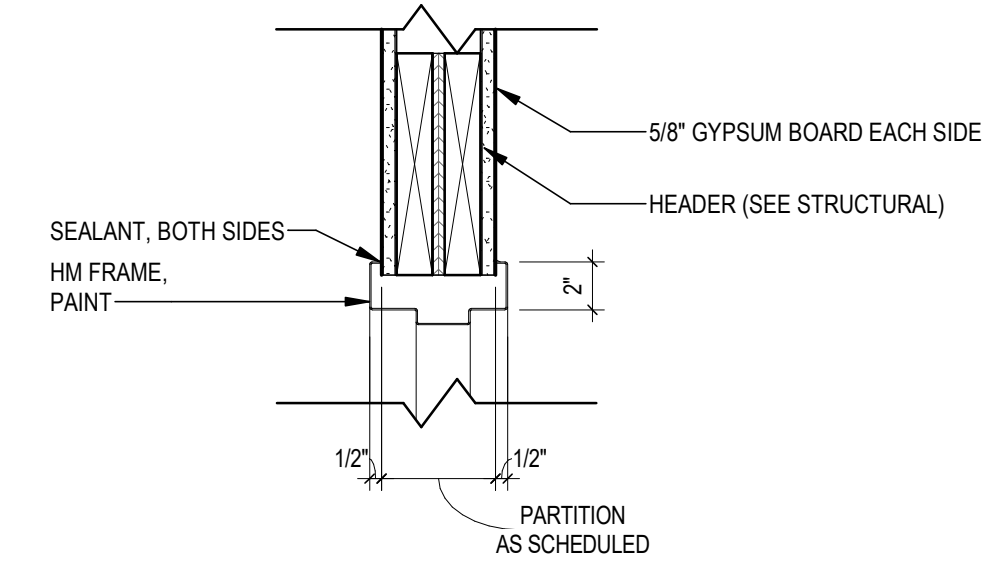
5 HEAD - ALUM - FRAMED - INTERIOR
1 1/2" = 1'-0"



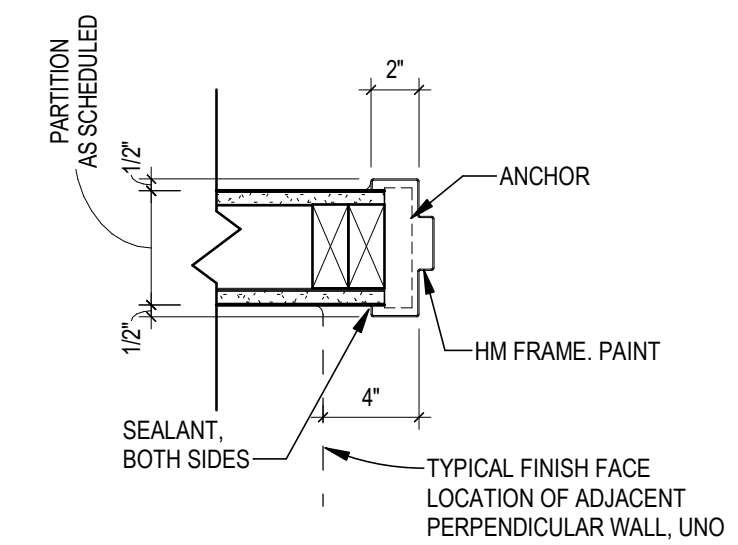
4 ALUM FRAME HEAD DETAIL
1 1/2" = 1'-0"



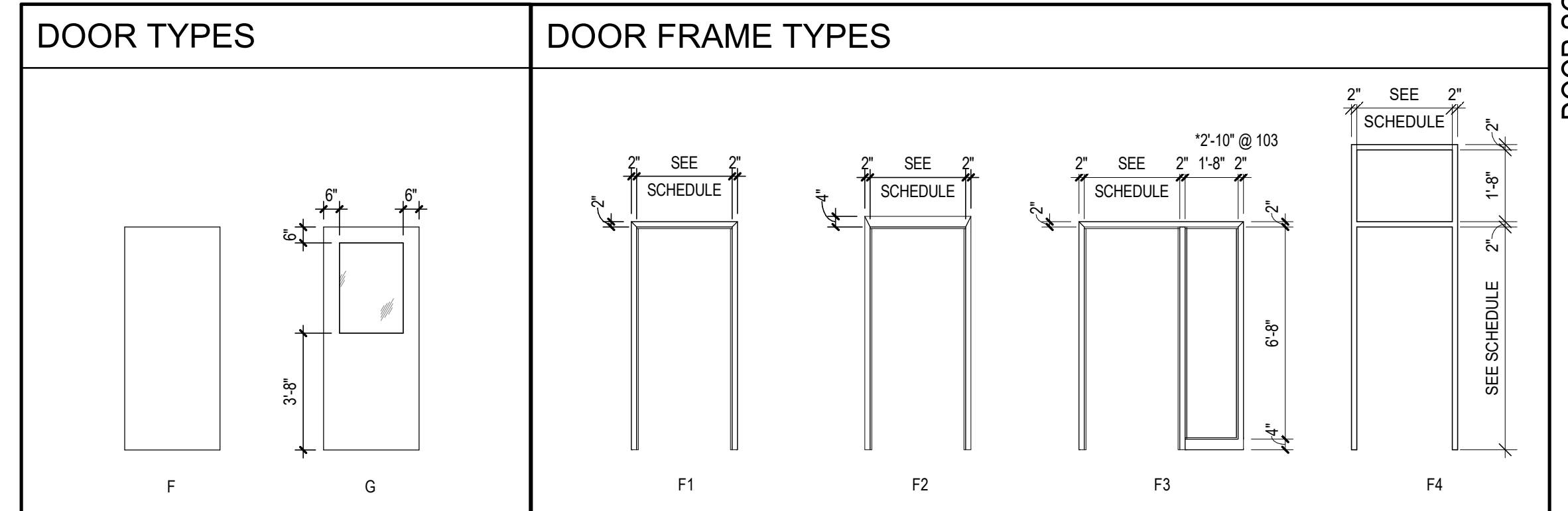
3 JAMB - ALUM - FRAMED - AT CMU
1 1/2" = 1'-0"



2 HEAD - HM - FRAMED
1 1/2" = 1'-0"



1 JAMB - HM - FRAMED
1 1/2" = 1'-0"



DOOR SCHEDULE																				
SCHEDULE KEY:																				
MARK:	TYPE:	DOOR MATERIAL:	FRAME MATERIAL:	DOOR / FRAME FINISH:	GLAZING TYPE:	DETAIL:	FIRE RATING:	HARDWARE SET:												
AS SPECIFIED ON FLOOR PLANS	REFER TO LEGENDS ON THIS SHEET	AL ALUMINUM CW CLAD WOOD EXT EXISTING TO REMAIN FG FIBERGLASS PVC POLYVINYL CHLORIDE ST STEEL VL VINYL WD WOOD	AL ALUMINUM CW CLAD WOOD EXT EXISTING TO REMAIN FG FIBERGLASS HM HOLLOW METAL PVC POLYVINYL CHLORIDE ST STEEL VL VINYL WD WOOD	EXST EXISTING TO REMAIN AN ANNOIDIZED (REF: PT SPEC) PT PAINTED STN STAINED	GL-1 SINGLE PANE, CLEAR GL-2 DOUBLE PANE, CLEAR GL-3 DOUBLE PANE, GRAY	REFER TO DETAILS AS INDICATED	IN MINUTES	REFER TO PROJECT MANUAL DIVISION 08 FOR HARDWARE SCHEDULE												
SCHEDULE NOTES:																				
1. REFER TO SPECIFICATIONS FOR GLAZING TYPE																				
2. REFER TO AF101 FOR INTERIOR TRIM PROFILES																				
3.																				
REV.	MARK	WIDTH	HEIGHT	THICK.	NO. OF LEAFS	DOOR			FRAME			GLAZING TYPE	DETAIL			FIRE RATING	HDW	NOTES		
						TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	DEPTH		HEAD	JAMB	THRSH	WALL	LBL.		
	100A	6'-2"	7'-0"	1 3/4"	2	G	AL	AN	F4	AL	AN	5 3/4"	-	7/ A-601	3 & 6/ A-601				AL1	TRANSOM ABOVE DOOR
	100B	6'-2"	7'-0"	1 3/4"	2	G	AL	AN	F1	AL	AN	5 3/4"	-	5/ A-601	SIM 5/ A-601				8	
	102	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1		HM	PT-2			6/ A-602	5/ A-602				6	SLIDING DOOR
	103	3'-0"	7'-0"	1 3/4"	1	G	WD	PT-1	F3	HM	PT-2	5 3/4"	-	2/ A-601	1/ A-601				05A	
	104A	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1		HM	PT-2			6/ A-602	5/ A-602				6	SLIDING DOOR
	104B	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1		HM	PT-2			6/ A-602	5/ A-602				7	SLIDING DOOR
	106	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1	F1	HM	PT-2	5 3/4"	-	2/ A-601	1/ A-601				1	
	107	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1	F1	HM	PT-2	5 3/4"	-	2/ A-601	1/ A-601				1	
	108A	3'-0"	7'-0"	1 3/4"	1	F	WD	PT-1	F3	HM	PT-2	5 3/4"	-	2/ A-601	1/ A-601				4	
	108B	6'-2"	7'-0"	1 3/4"	2	G	AL	AN	F1	AL	AN	5 3/4"	-	4/ A-601	3 & 6/ A-601				AL2	
	109	4'-0"	7'-0"	1 3/4"	1	F	WD	PT-1	F1	HM	PT-2	7 3/4"	-	2/ A-601	1/ A-601				2	
	110	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1	F1	HM	PT-2	7 3/4"	-	2/ A-601	1/ A-601				3	
	111	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1	F2	HM	PT-2	5 3/4"	-	2/ A-602	1/ A-602				2	BULLET RESISTANT ASSEMBLY
	112A	3'-6"	7'-0"	1 3/4"	1	G	WD	PT-1	F2	HM	PT-2	5 3/4"	-	SIM 2/ A-602	SIM 1/ A-602				05B	BULLET RESISTANT ASSEMBLY
	112B	3'-0"	7'-0"	1 3/4"	1	F	AL	AN	F2	HM	AN	5 3/4"	-	4/ A-602	3/ A-602				AL3	BULLET RESISTANT ASSEMBLY

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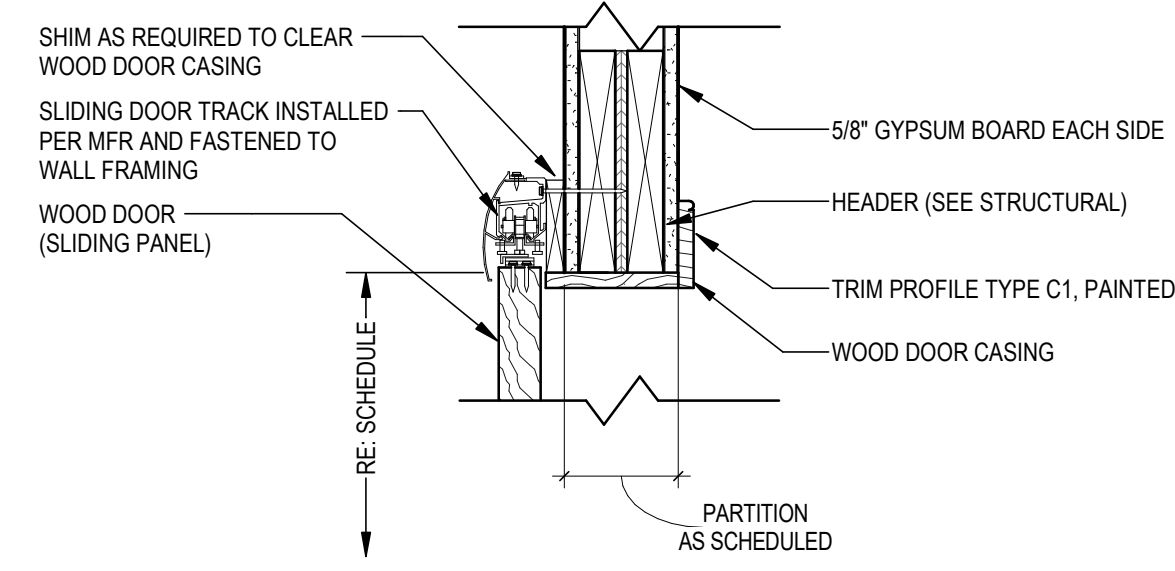
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STATE FACILITIES ADMINISTRATION
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DEPARTMENT OF NATURAL RESOURCES
MICHIGAN
DNR

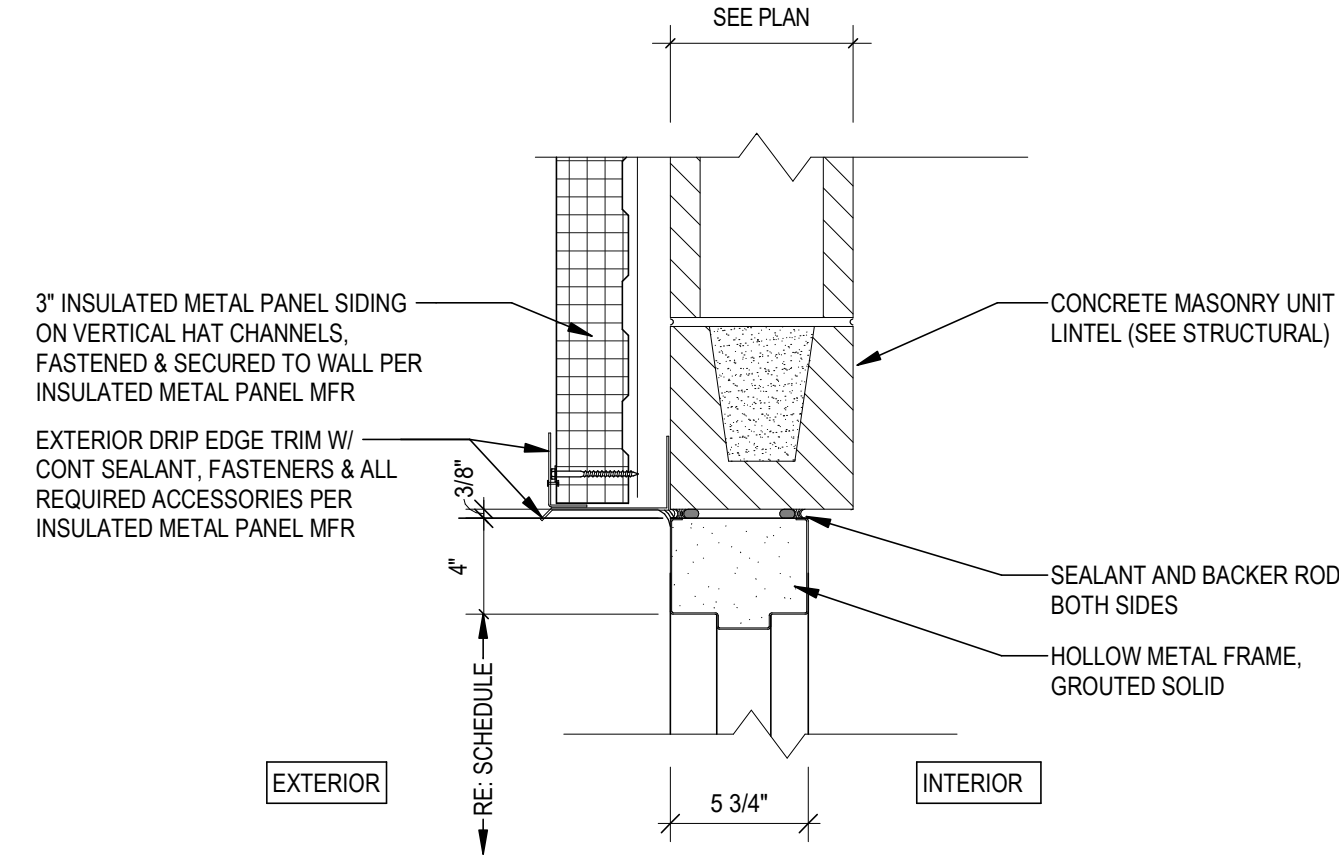
DOOR SCHEDULE & DETAILS
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

SHEET	IDENTIFICATION NO.	PROJECT FILE NUMBER	ISSUED FOR	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
					CO	TD	JD	CO
A-601	0860-17-0010	0860-17-0010	<input checked="" type="checkbox"/> PRELIMINARY <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> FINAL RECORD	03/10/2021				

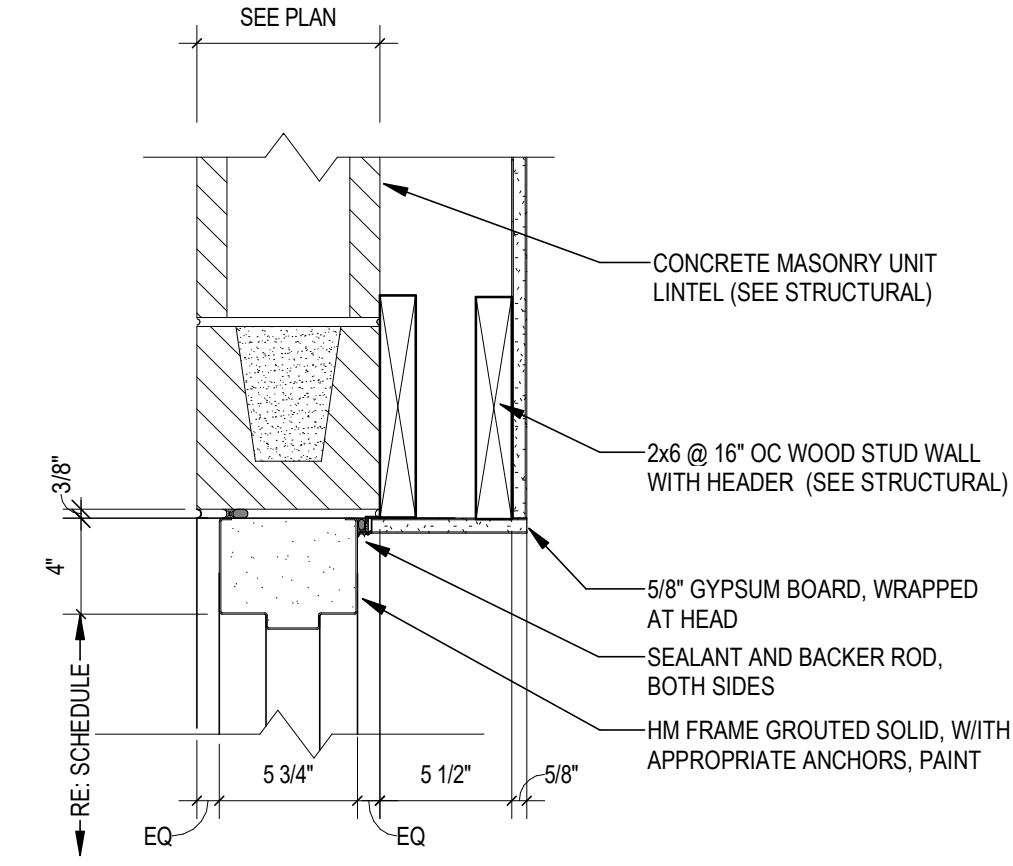
SHEET	IDENTIFICATION No.	ISSUED FOR	DATE	DESIGNED	CO
A-602	PROJECT FILE NUMBER: 0860-17-0010 ACCOUNTING TEMP: 235905110	<input checked="" type="checkbox"/> PRELIMINARY <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> FINAL RECORD	03/10/2021	DRAWN	TD
				CHECKED	JB
				APPROVED	CO



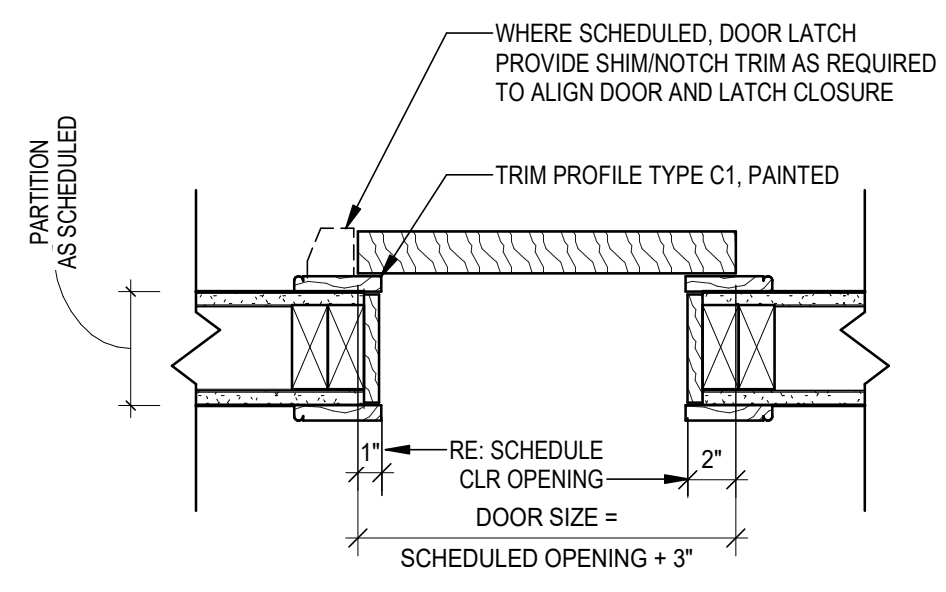
6 HEAD - SLIDING DOOR
1 1/2" = 1'-0"



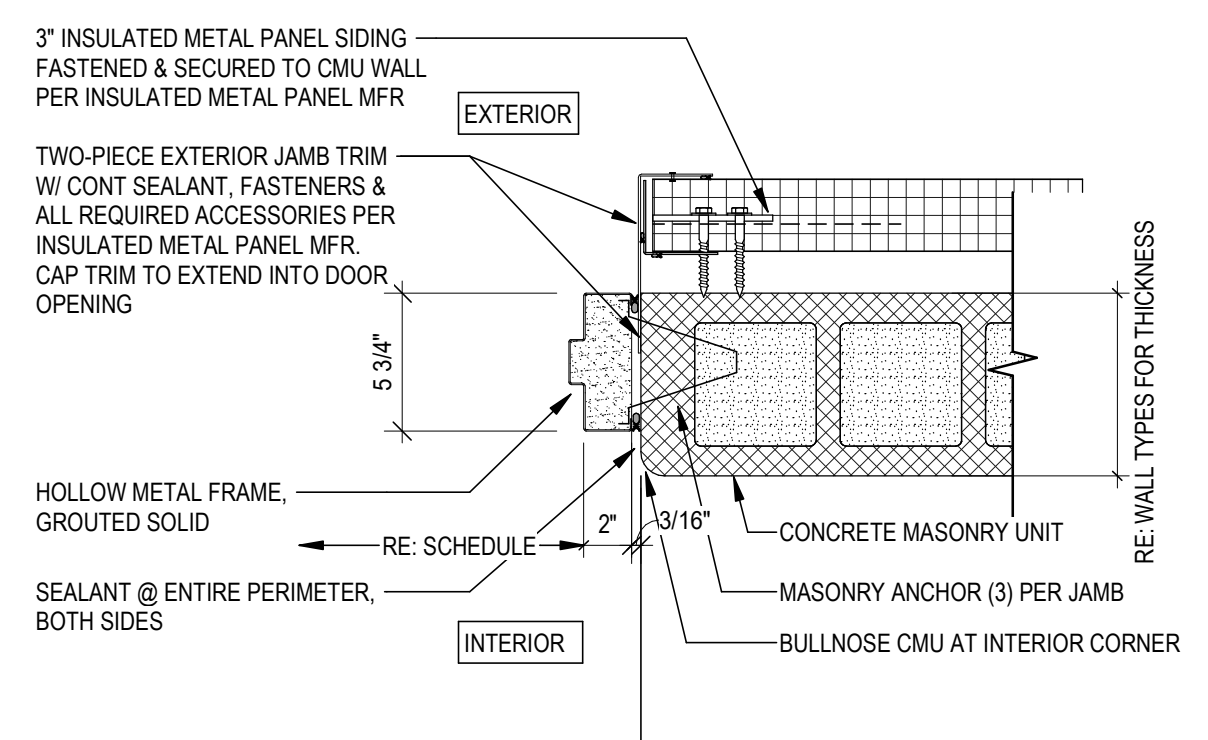
4 DOOR HEAD DETAIL
1 1/2" = 1'-0"



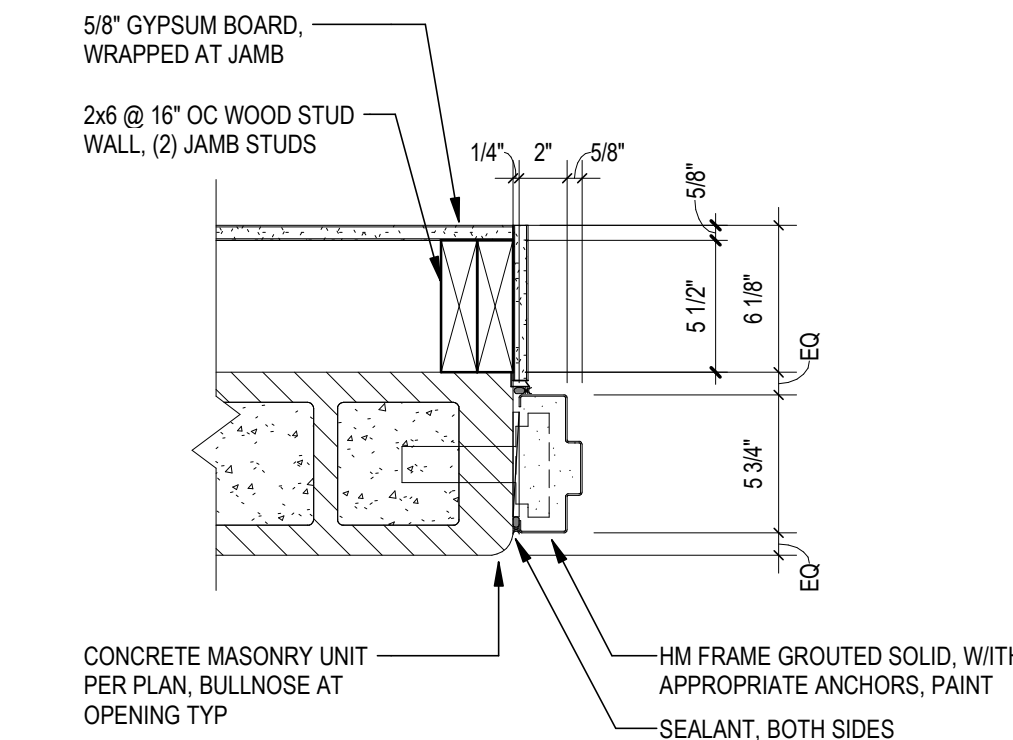
2 HEAD - HM - FRAMED
1 1/2" = 1'-0"



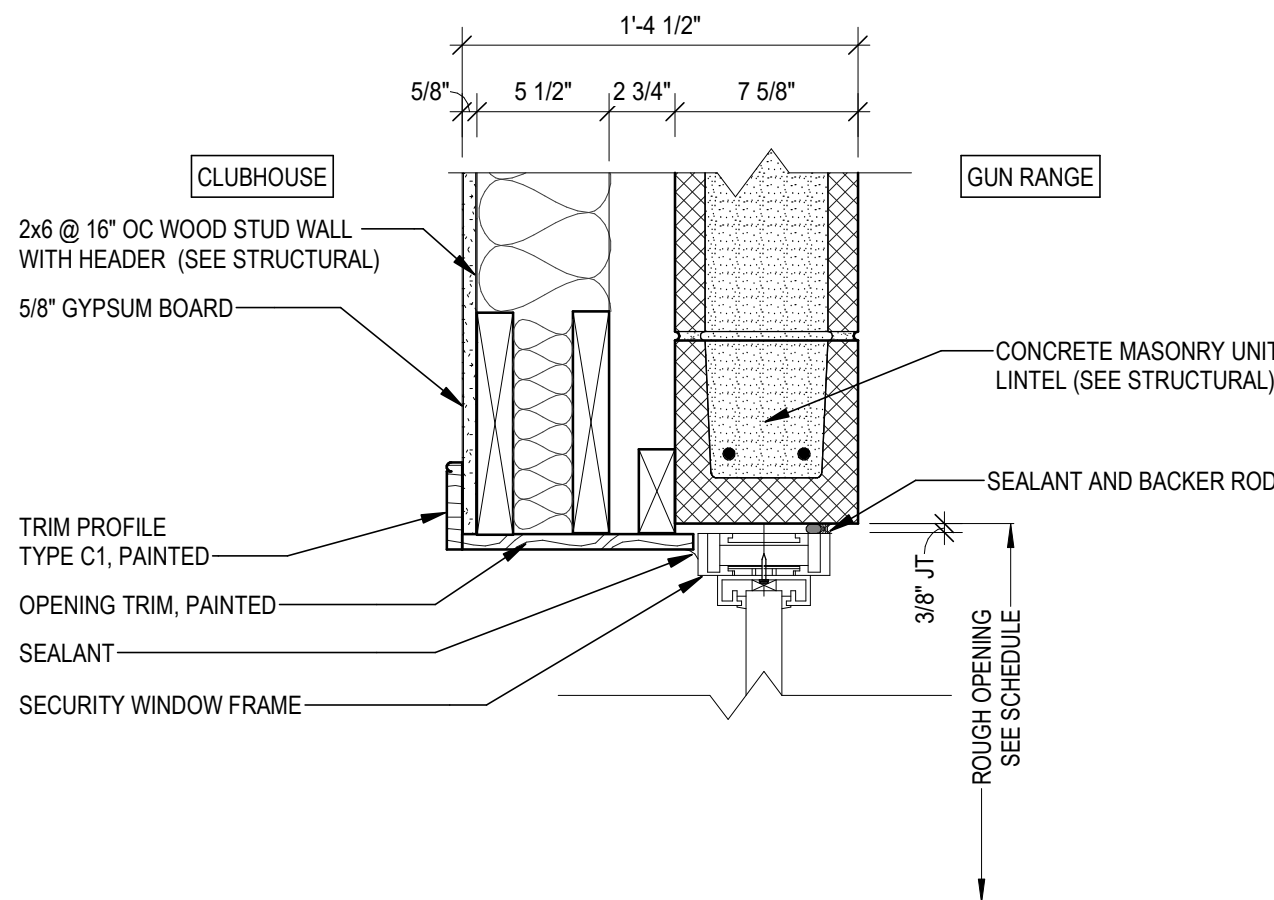
5 JAMB - SLIDING DOOR
1 1/2" = 1'-0"



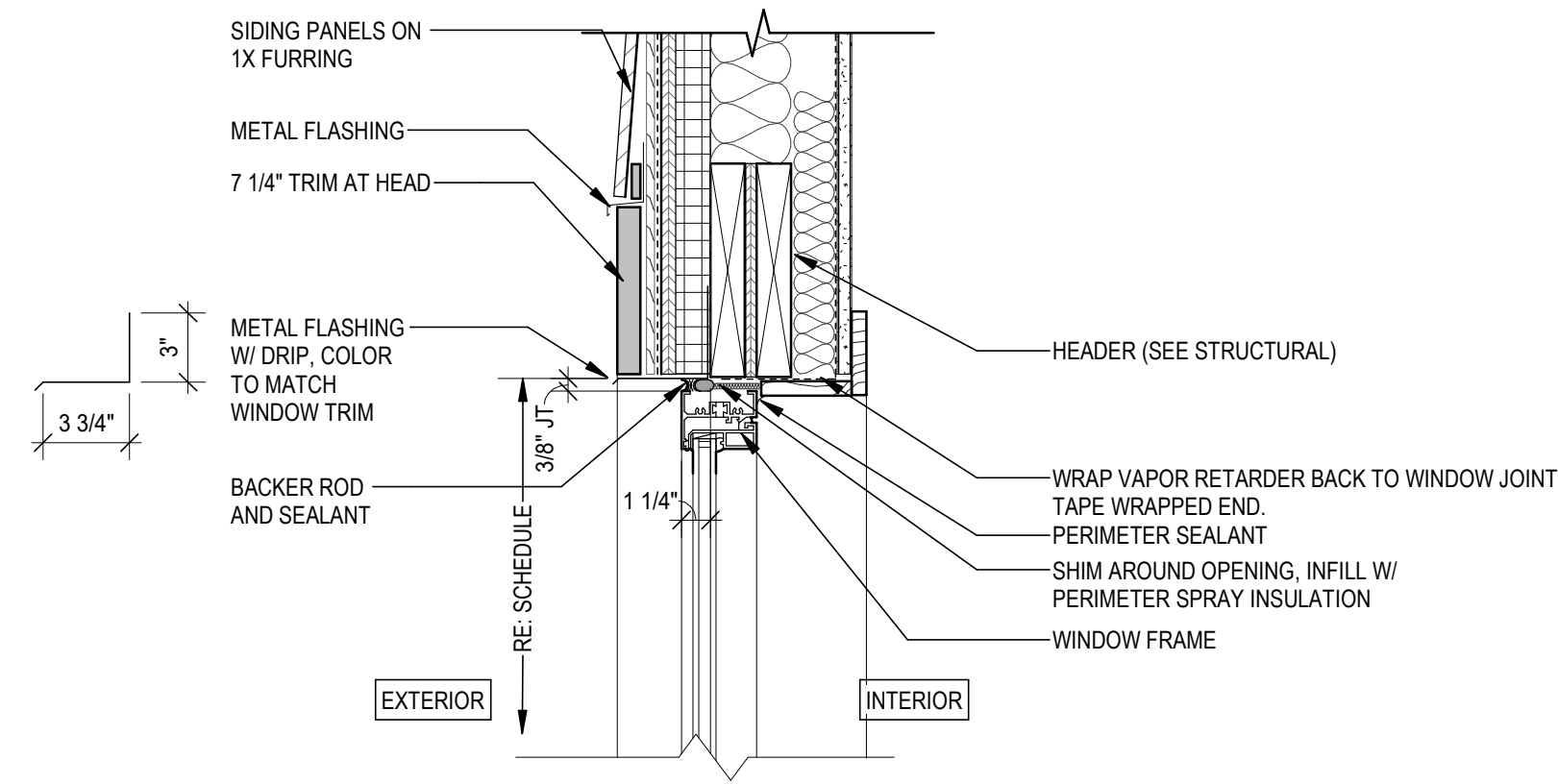
3 DOOR JAMB DETAIL
1 1/2" = 1'-0"



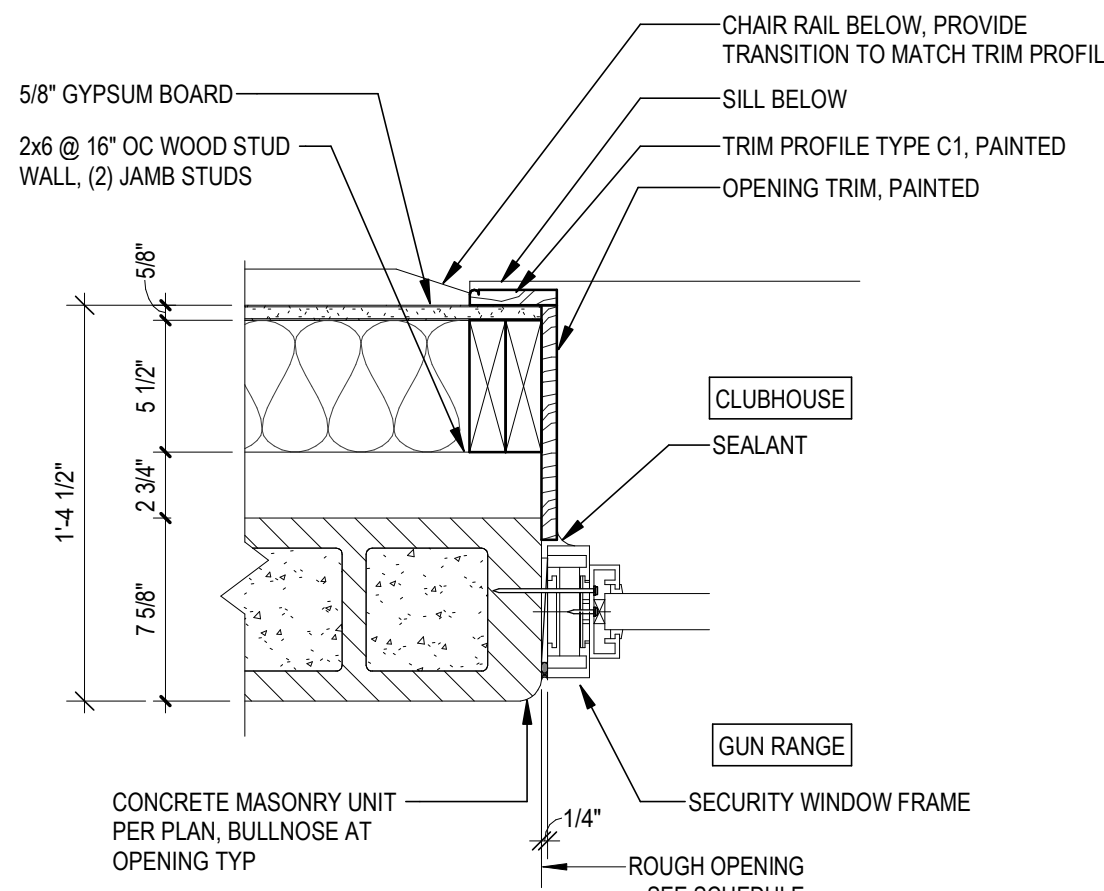
1 JAMB - HM - FRAMED
1 1/2" = 1'-0"



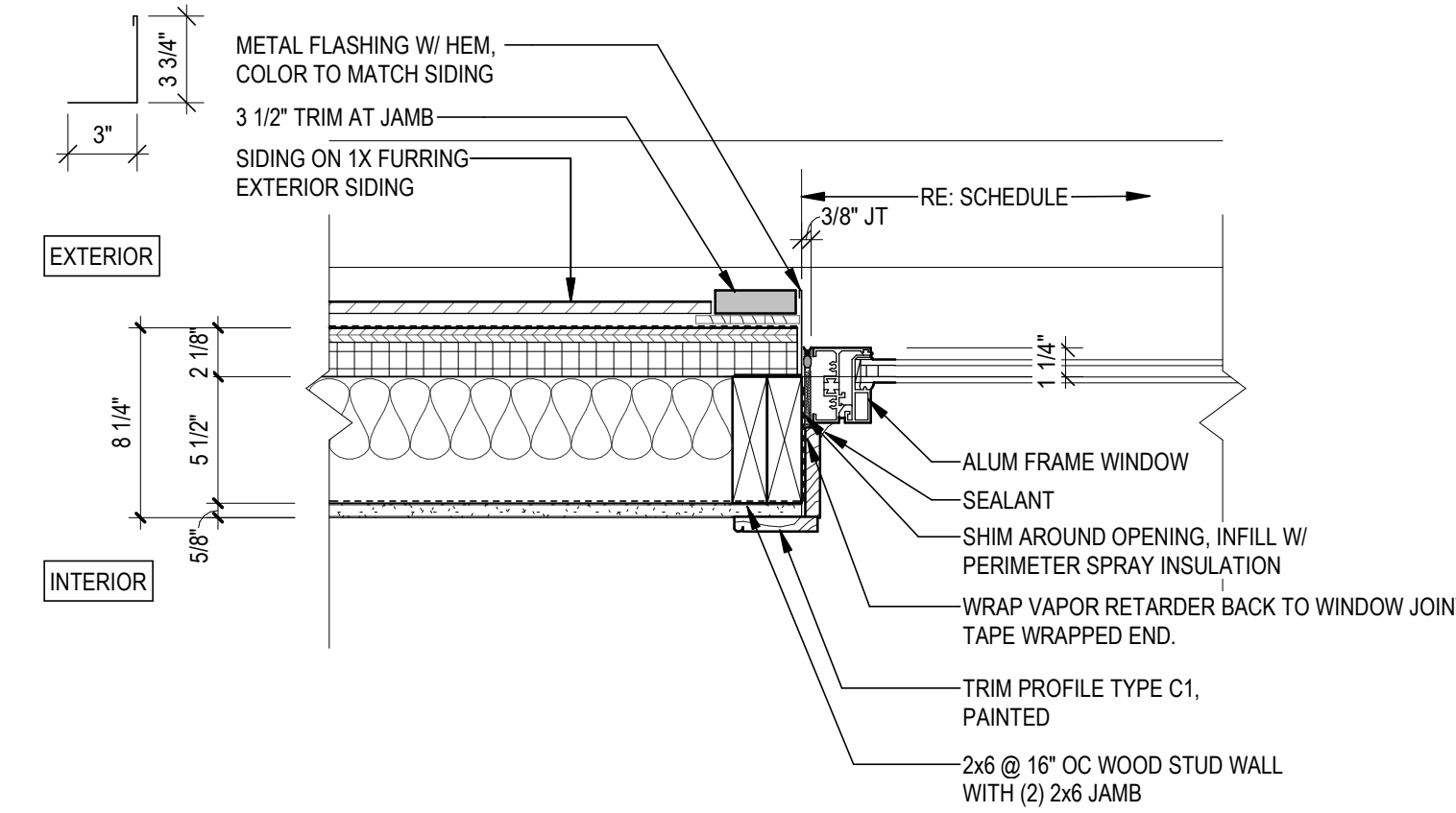
6 SECURITY WINDOW HEAD
1 1/2" = 1'-0"



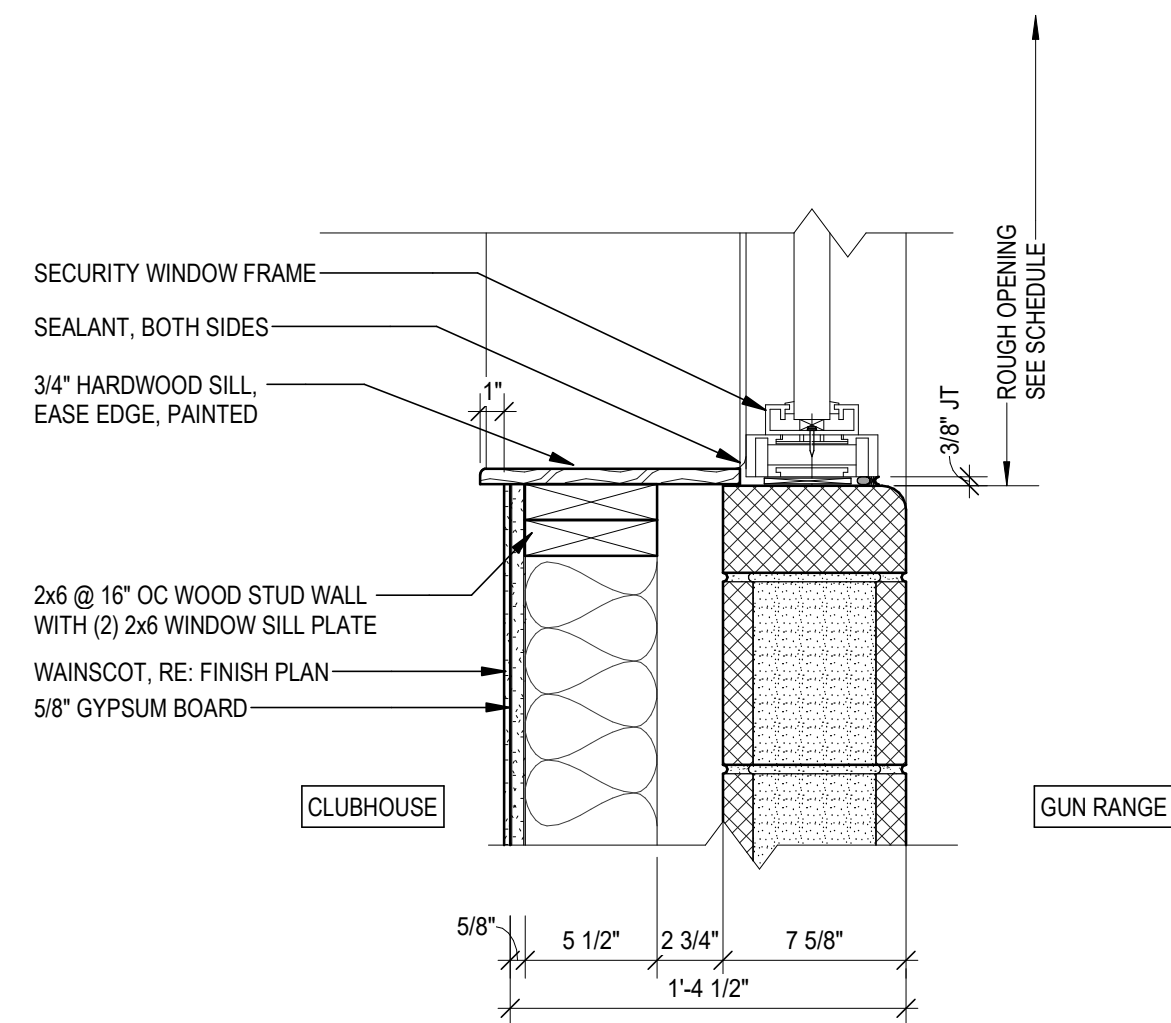
3 WINDOW HEAD
1 1/2" = 1'-0"



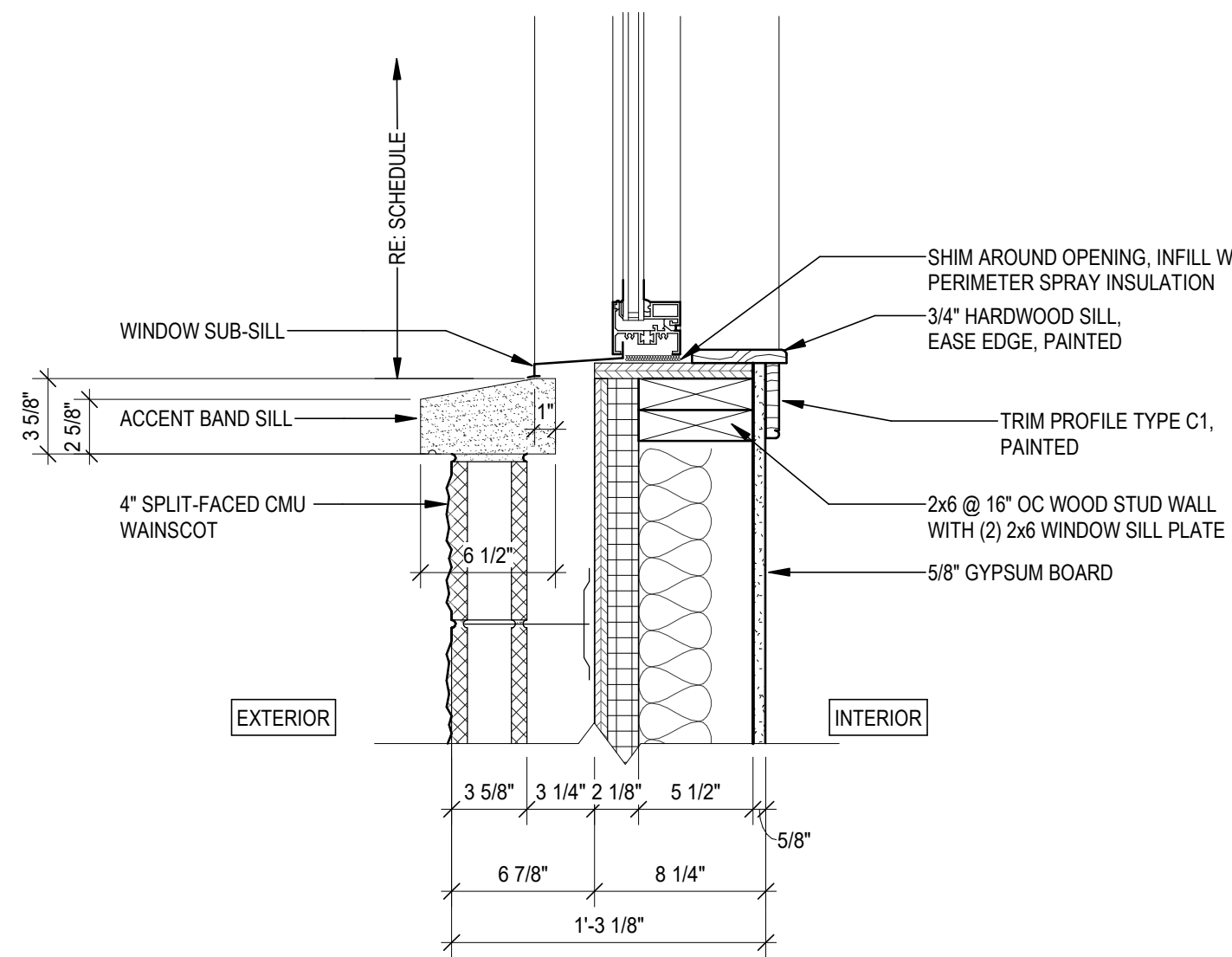
5 SECURITY WINDOW JAMB
1 1/2" = 1'-0"



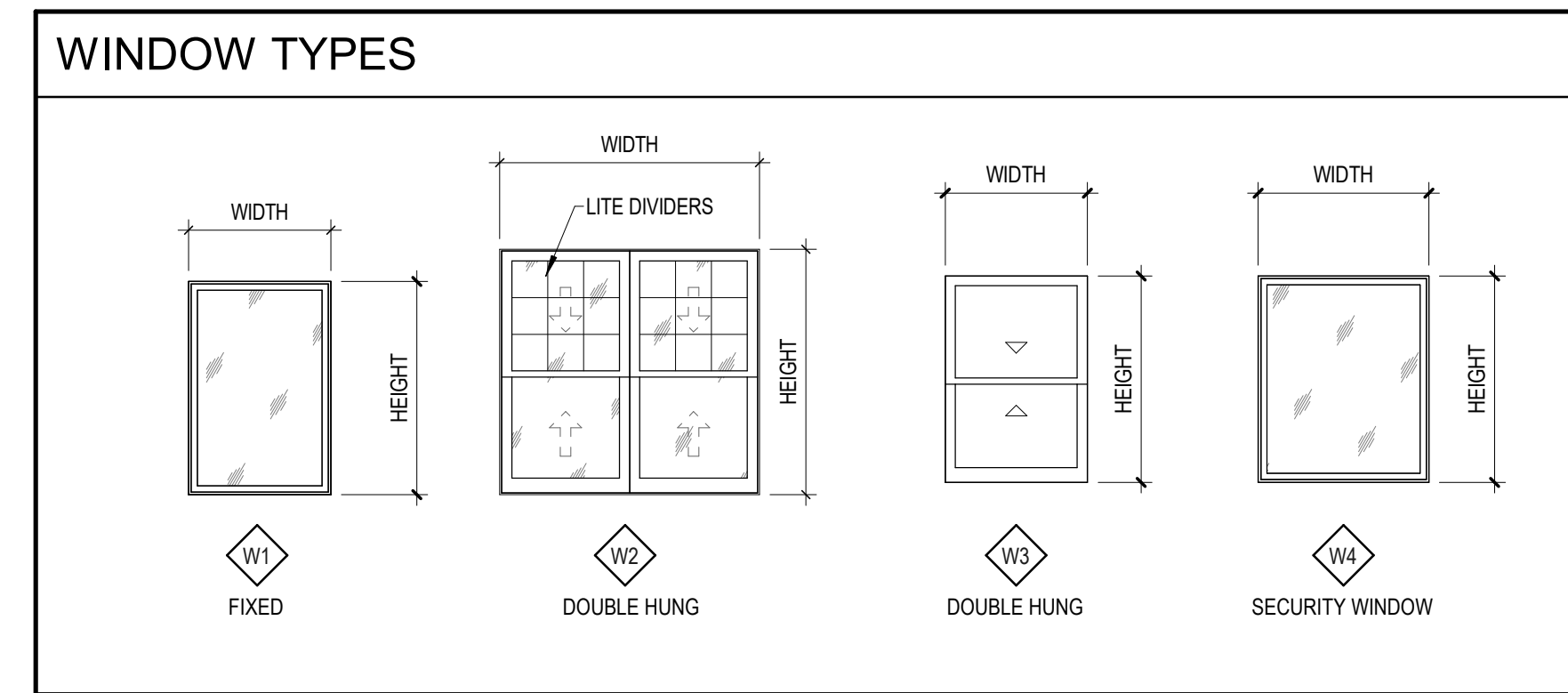
2 WINDOW JAMB
1 1/2" = 1'-0"



4 SECURITY WINDOW SILL
1 1/2" = 1'-0"



1 WINDOW SILL
1 1/2" = 1'-0"



WINDOW SCHEDULE										
SCHEDULE KEY:										
MARK	TYPE	FRAME MATERIAL		FRAME FINISH		GLAZING TYPE		DETAIL		FIRE RATING
AS SHOWN ON FLOOR PLANS	REFER TO LEGEND ON THIS SHEET	AL ALUMINUM	CW CLAD WOOD	EXST EXISTING TO REMAIN	PF PRE-FINISHED	GL-1 1 PANE, CLEAR	GL-2 2 PANE, CLEAR	GL-3 2 PANE, GRAY	REFER TO DETAILS AS INDICATED	IN MINUTES
W1	FIXED	AL		EXST	PF	GL-1				
W2	DOUBLE HUNG	AL		EXST	PF	GL-1				
W3	DOUBLE HUNG	AL		EXST	PF	GL-1				
W4	SECURITY WINDOW	AL		EXST	PF	GL-1				SECURITY WINDOW

WINDOW SCHEDULE & DETAILS

SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

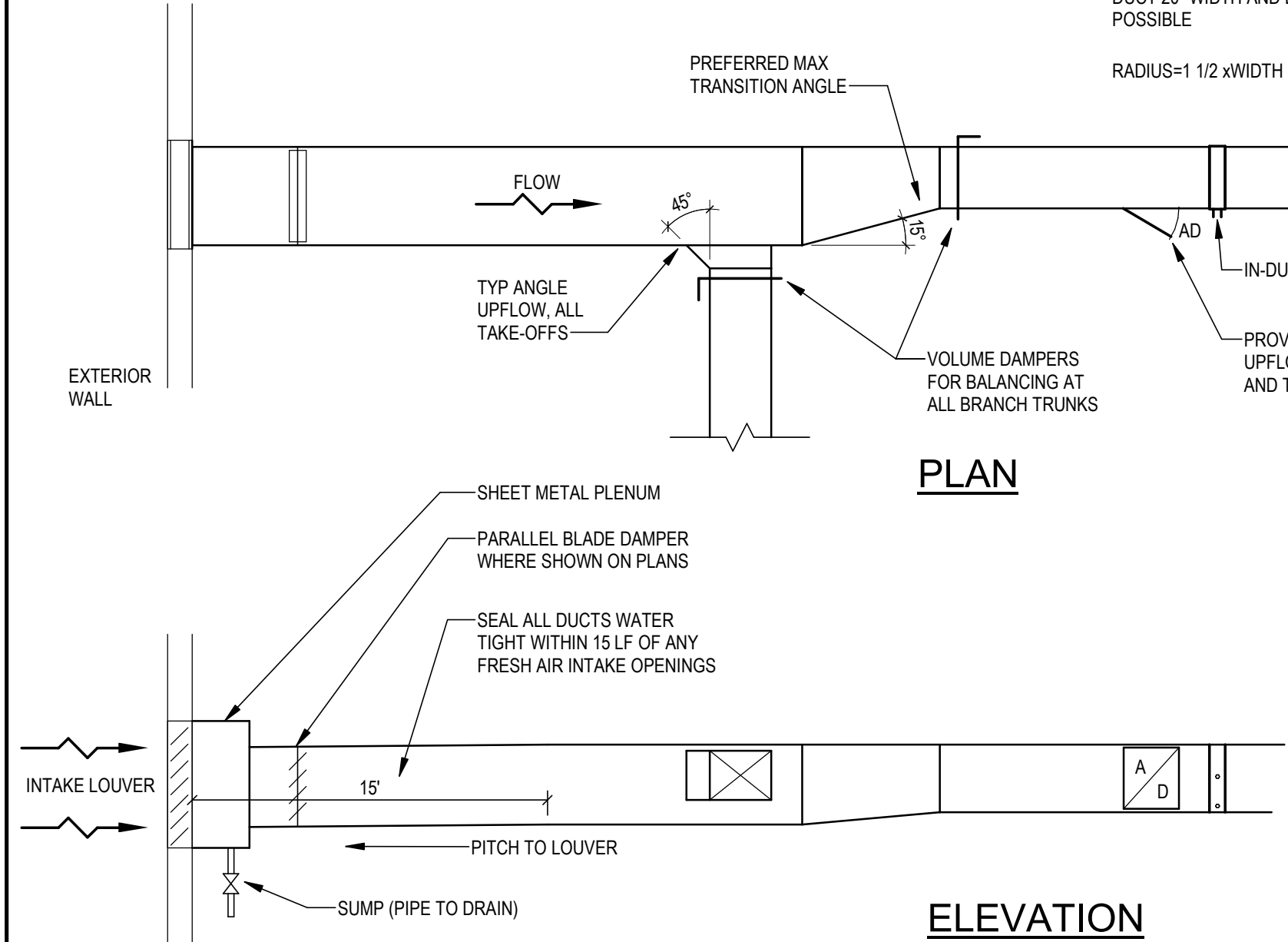
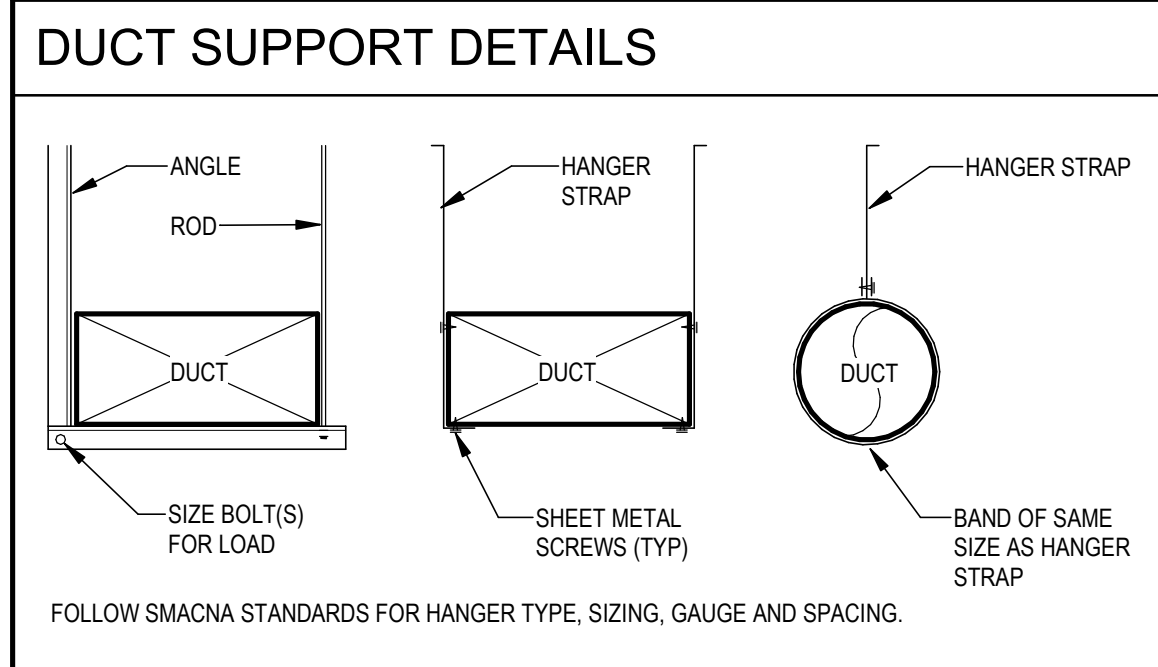
OHM
ARCHITECTS ENGINEERS PLANNERS
424 Hancock Street
Hancock, MI 49930
PH 906.482.0535 | F 906.482.6453
OHM-ADVISORS.COM
OHM PROJECT No.

DNR
DEPARTMENT OF NATURAL RESOURCES
MICHIGAN

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ROBERT C. HALL, RA, NCARB, DIRECTOR

DESIGNED	CO	DATE	03/10/2021
DRAWN	TD	ISSUED FOR	<input checked="" type="checkbox"/> PRELIMINARY <input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> FINAL RECORD
CHECKED	JB	IDENTIFICATION No.	PROJECT FILE NUMBER: 0868A11-0010 ACCOUNTING TEMP.: 2359051110
APPROVED	CO	SHEET	A-603

DUCTWORK REQUIREMENTS



PRESSURE CLASS

1/2", 1" & 2" WG & >2" WG EXHAUST	
CFM PER 100 SQ FT @ 1" WG	
SEAL CLASS	C
RECTANGULAR DUCT	24
ROUND DUCT	12

NOTES

- ITEMS AS SHOWN ARE THE MINIMUM REQUIRED AND SHALL BE PROVIDED BY THE CONTRACTOR WHETHER SHOWN ON THE FOLLOWING PLANS OR NOT.
- LISTED DUCT SIZES INDICATE THE INSIDE CLEAR DIMENSIONS, NOT INCLUDING DUCT LINER.
- ALL FLAT SURFACES ON DUCTS AND FITTINGS SHALL BE EITHER CROSS BROKE OR BEADED.
- DUCT SEAMS SHALL BE EITHER PITTSBURG OR BUTTON LOCK.
- STANDING RIB CLEATS ARE REQUIRED ON DUCTS HAVING WIDTHS OF 24" OR MORE.
- ALL JOINTS IN SHEET METAL SHALL BE SEALED WITH AN APPROVED DUCT SEALANT.
- ALL DAMPERS MUST HAVE A POSITION INDICATOR ON THE SHAFT.
- DAMPERS GREATER THAN 8" IN WIDTH MUST BE OPPOSED BLADE.

GENERAL NOTES - MECHANICAL

- COORDINATE LOCATIONS OF THE THERMOSTATS WITH OTHER TRADES.
- PROVIDE BALANCE DAMPERS FOR EACH DIFFUSER/GRILLE AND BRANCH DUCT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EQUIPMENT AND MATERIALS IN A "NEW" CONDITION DURING CONSTRUCTION.
- ALL EXTERNALLY ISOLATED HVAC EQUIPMENT SHALL HAVE FLEXIBLE DUCT CONNECTORS.
- ALL CONDENSATE DRAIN PIPING TO TERMINATE TO DRAIN VIA AIR GAP.
- DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND DUCTS AND SUGGESTED ROUTES. IT IS THE NOT INTENTION THE OF DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.

MECH. ABBR.	MECH. ABBR.	MECH. ABBR.
A	F	O
AAV	FPM	OA
AD	FPS	OUTSIDE AIR
AFF	FT	P
AFMS	*F	PH I
APD	G	PRV
	GA	PSI
B	G	PSIG
BDD	GA	R
BFP	GPH	RA
BOD	GPM	RF
	H	RH
C	HC	RPM
CFM	HP	S
CG	HVAC	SA
CND		SF
CONV		SP
CR		STD
CUH		T
	L	TYP
D	LAT	U
DB	LDB	UH
DIA Ø	LF	V
DN	LWB	V
DPS	LWT	VAV
	M	VFD
E	MAX	W
EA	MBH	WH
EAT	MCA	WPD
EDB	MIN	
EF	MISC	
ESP	MTD	
EWB	MUA	
EWT		
EXIST		

HVAC LEGEND

DUCTS						
	PROPOSED		EXISTING		DEMOLISH	
	RECTANGLE	ROUND	RECTANGLE	ROUND	RECTANGLE	ROUND
EXHAUST AIR	12"x12" EA	12" Ø EA	12"x12" EA	12" Ø EA	12"x12" EA	12" Ø EA
OUTSIDE AIR	12"x12" OA	12" Ø OA	12"x12" OA	12" Ø OA	12"x12" OA	12" Ø OA
RETURN AIR	12"x12" RA	12" Ø RA	12"x12" RA	12" Ø RA	12"x12" RA	12" Ø RA
SUPPLY AIR	12"x12" SA	12" Ø SA	12"x12" SA	12" Ø SA	12"x12" SA	12" Ø SA

DIFFUSERS & GRILLES		HVAC SYMBOLS	
	CEILING DIFFUSER		VOLUME DAMPER
	LINEAR SLOT DIFFUSER		MOTORIZED DAMPER
	WALL DIFFUSER/GRILLE		FIRE DAMPER
	FLOOR REGISTER		SMOKE DAMPER
	CEILING GRILLE		COMBINATION DAMPER
	TURNING VANES		THERMOSTAT
12x12	DUCT WIDTH x HEIGHT		HUMIDISTAT
12 Ø	ROUND DUCT DIAMETER		EQUIPMENT TAG
			CONNECT TO EXISTING

PIPING			
	NEW	EXISTING	DEMOLISH
CHILLED WATER RETURN	6" CWR	6" CWR	6" CWR
CHILLED WATER SUPPLY	6" CWS	6" CWS	6" CWS
HEATING WATER RETURN	6" HWR	6" HWR	6" HWR
HEATING WATER SUPPLY	6" HWS	6" HWS	6" HWS
STEAM CONDENSATE	6" CND	6" CND	6" CND
STEAM	6" STM	6" STM	6" STM
NATURAL GAS	6" G	6" G	6" G
FIN TUBE RADIATION			

ROOM VENTILATION DATA

ROOM	AREA	OCCUPANTS /1000 SQ FT	OCCUPANTS	RA CFM /SQ FT	RP CFM/ OCCUPANT	RA	RP	EXHAUST FLOW CFM	TOTAL CFM (RA+RP)
100 MAIN ENTRY	109	-	-	-	-	-	-	-	-
101 LOBBY	665	10	7	0.06	5	40	35	-	75
102 OFFICE	214	5	2	0.06	5	13	10	-	23
103 RANGE ENTRY	100	-	-	0.06	-	6	-	-	6
104 KITCHENETTE	112	-	-	-	-	-	-	-	-
105 HALL	57	-	-	0.06	-	4	-	-	4
106 TOILET	70	-	-	-	-	-	-	75	-
107 TOILET	70	-	-	-	-	-	-	75	-
108 CONFERENCE	968	50	49	0.06	5	59	245	-	304
109 STORAGE	180	-	-	0.12	-	22	-	-	22
110 MECHANICAL	185	-	-	-	-	-	-	-	-
111 RANGE STORAGE	153	-	-	0.12	-	19	-	-	19
112 RANGE	3189	-	-	0.30	-	957	-	-	957
TOTALS								150	1410

INSULATION SCHEDULE

ITEM	THICKNESS	TYPE	REMARKS
OUTSIDE AIR DUCT	2"	FIBERGLASS	TYPE ASJ
SUPPLY DUCT	1 1/2"	FIBERGLASS	TYPE ASJ
EXHAUST DUCT	2"	FIBERGLASS	TYPE ASJ

- ALL DUCTS WITHIN 25' OF MOTORS, INSTALL 1" MANVILLE LINO-COUSTIC DUCT LINER OR EQUAL, EXCLUDING OA DUCT.
- EXPOSED DUCTWORK SHALL BE INSULATED WITH RIGID FIBERGLASS DUCT INSULATION AND JACKET.
- INSULATE EXHAUST DUCTS WITHIN 10' OF EXTERIOR OPENINGS AND EXHAUST DUCTS EXPOSED TO OUTSIDE AIR.

424 Hancock Street
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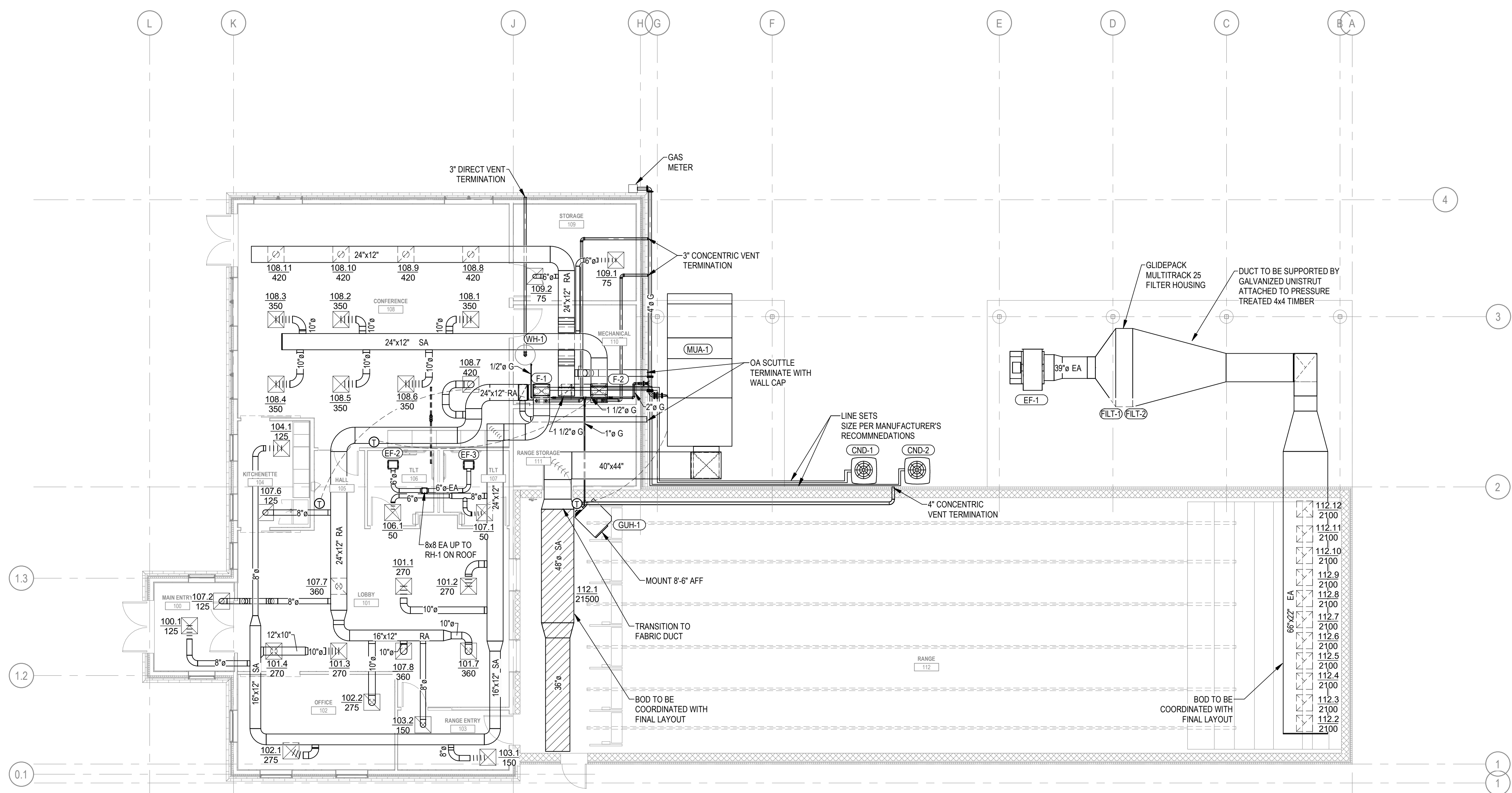
GENERAL MECHANICAL INFORMATION

SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

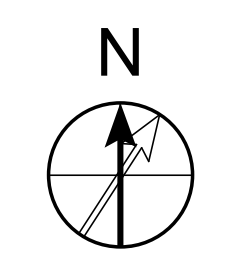
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ISSUED FOR		PRELIMINARY CONSTRUCTION	<input checked="" type="checkbox"/>
IDENTIFICATION No.		ACCOUNTING TEMP.	<input type="checkbox"/>
PROJECT FILE NUMBER	0860-17-0010	FINAL RECORD	<input type="checkbox"/>
SHEET	M-001		



MECHANICAL PLAN
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY



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



SHEET M-101	IDENTIFICATION No. PROJECT FILE NUMBER 0860-17-0010 ACCOUNTING TEMP. 233906110	ISSUED FOR <input checked="" type="checkbox"/> PRELIMINARY <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> FINAL RECORD	DATE 03/10/2021	DESIGNED LA DRAWN LA CHECKED ST APPROVED TW
	<p>MECHANICAL PLAN</p>			

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FILE PATH: BIN\360\0860-17-0010 Lake Superior Sportsman's Club\0860\70010_MEP_LSSC-SHOOTING COMPLEX 2020_CEN.rvt

GENERAL NOTES - PLUMBING

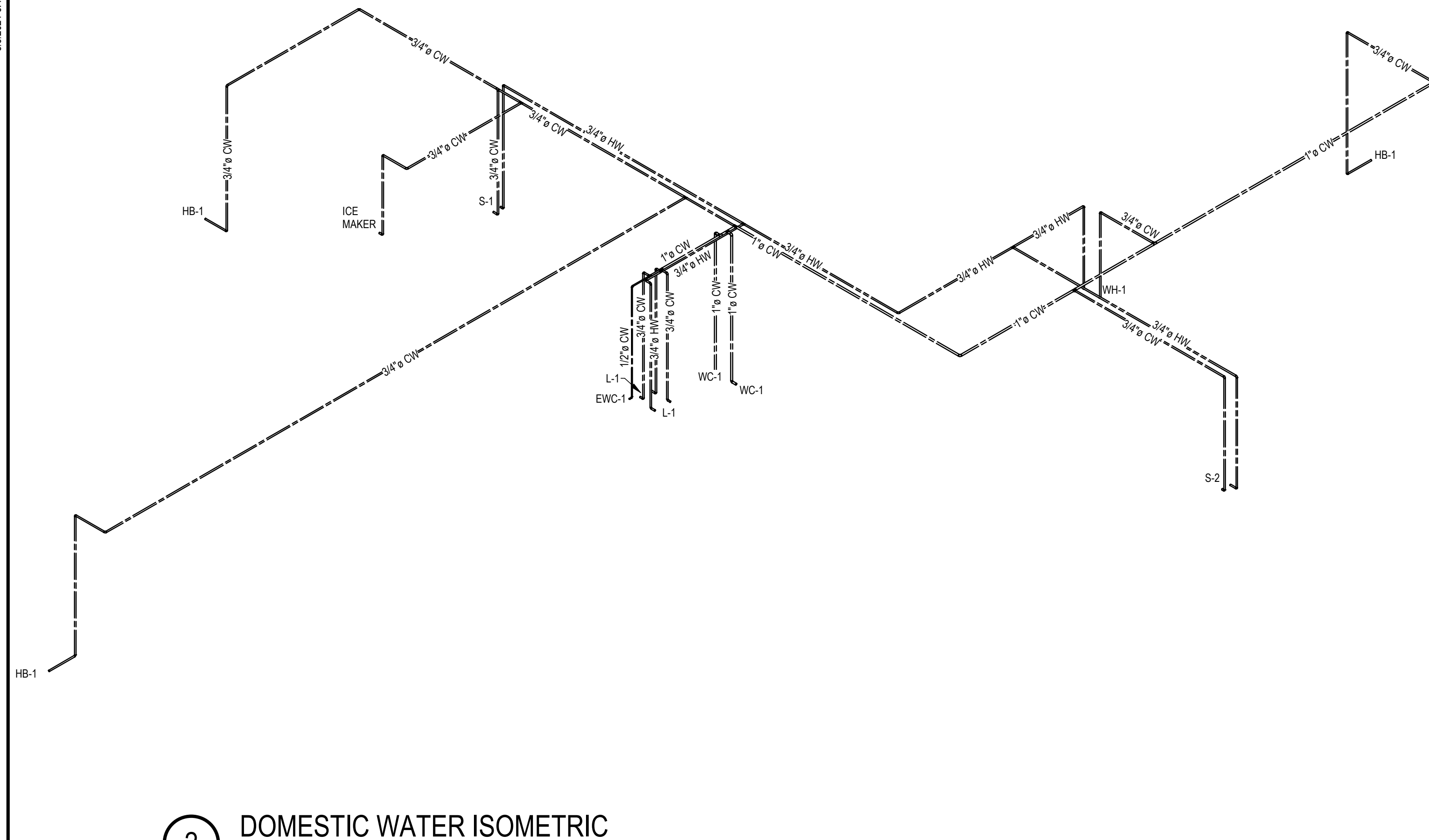
1. ALL PLUMBING EQUIPMENT AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2015 STATE OF MICHIGAN PLUMBING CODE AND THE 2015 INTERNATIONAL PLUMBING CODE.
2. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A PLUMBING PERMIT AND INSPECTIONS. A FINAL INSPECTION CERTIFICATE SHALL BE SUBMITTED BEFORE FINAL PAYMENT WILL BE ISSUED.
3. THE PLUMBING CONTRACTOR SHALL FURNISH SHOP DRAWINGS ON FIXTURES, APPURTENANCES AND MATERIALS THAT HE INTENDS TO FURNISH, FOR APPROVAL TO OWNER.
4. A BOUND MANUAL SHALL BE SUBMITTED UPON COMPLETION WITH MAINTENANCE INSTRUCTIONS, PARTS LISTS, AND MANUFACTURER'S WARRANTIES. ALSO A WARRANTY FROM THE PLUMBING CONTRACTOR ALONG WITH RECORD DRAWINGS SHALL BE SUBMITTED AT THIS TIME.
5. PLUMBING PIPING: DOMESTIC WATER: ABOVE GROUND, 2 1/2" AND SMALLER, TYPE L, SOLDERED (95/5) JOINTS
6. PLUMBING PIPING: DWV: HUB & SPIGOT CAST IRON ASTM-A74, HUBLESS CAST IRON ASTM-A888, SCHEDULE 40 PVC ASTM-D1785 AND D2665, FITTINGS ASTM-D2466
7. PLUMBING PIPING: GAS PIPING: STEEL PIPE: ASTM A53/A TYPE E OR S; GRADE B; BLACK WALL THICKNESS OF WROUGHT STEEL PIPE SHALL COMPLY WITH ASME B36-10M. COPPER TUBE ASTM B88, TYPE L, ANNEALED TEMPER.



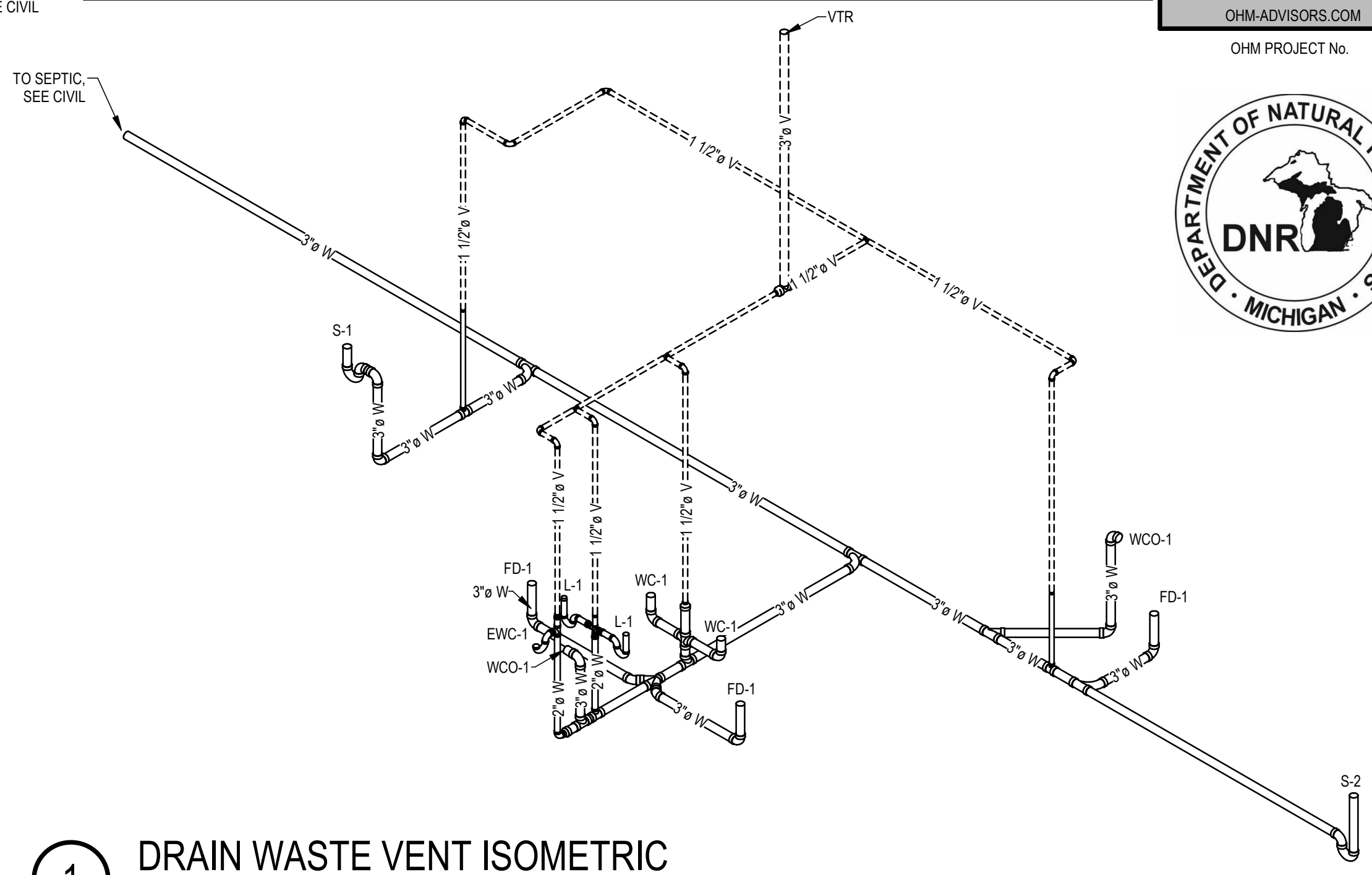
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2 DOMESTIC WATER ISOMETRIC



1 DRAIN WASTE VENT ISOMETRIC

PLUMB. ABBR.

- A AAV AIR ADMITTANCE VALVE
- AFF ABOVE FINISHED FLOOR
- B BFP BACK FLOW PREVENTER
- D DWV DRAIN WASTE & VENT
- E EWC ELECTRIC WATER COOLER
- F FD FLOOR DRAIN
- FCO FLOOR CLEAN OUT
- H HB HOSE BIB
- HVAC HEATING VENTILATION & AIR CONDITIONING
- HWCP HOT WATER CIRCULATION PUMP
- L LAVATORY
- M MISC MISCELLANEOUS MOUNTED
- MTD MOUNTED
- P PRV PRESSURE REDUCING VALVE
- S SINK
- T TYPICAL
- U URINAL
- V VTR VENT THROUGH ROOF
- W WC WATER CLOSET
- WCO WALL CLEAN OUT
- WH WATER HEATER

PLUMBING FIXTURE SCHEDULE

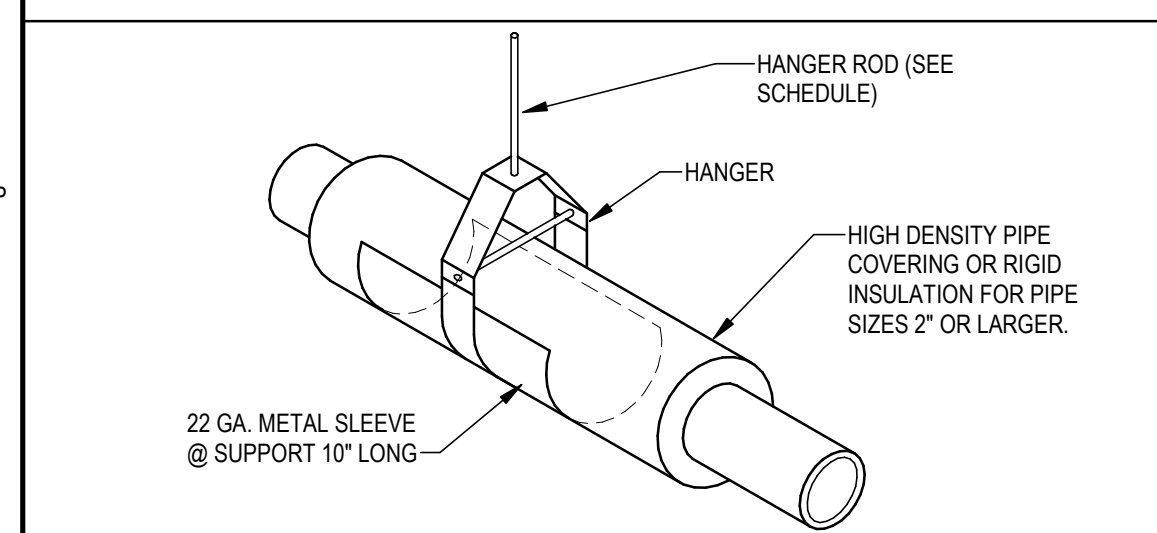
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	TRIM	REMARKS	ADA
EWC-1	WALL MOUNT, 62H20 BOTTLE FILLING STATION & VERSATILE BI-LEVEL ADA COOLER	ELKAY	LZSTL8WSLK	115V/60Hz 8.0 GPH	FURNISHED WITH FLOW REGULATOR AND DRAIN TRAP ASSEMBLIES AND ALL MOUNTING ASSEMBLIES REQUIRED	☑
L-1	20-3/4" X 18-1/4" WALL MOUNT, VITREOUS CHINA, WHITE	KOHLER	GREENWICH K-2032	FAUCET - DELTA B501LF	MIXING VALVE - WATTS MMV-M1 PTRAP - TRUBRO LAV GUARD 2 WALL CARRIER - ZURN 1231	☑
S-1	31" X 22" SINGLE BOWL STAINLESS STEEL SINK, COUNTERTOP	ELKAY	LRADQ312260	FAUCET - HOUZER CORPO-554-OB	MIXING VALVE - WATTS MMV-M1 PTRAP - TRUBRO LAV GUARD 2	☑
S-2	24" X 24" FLOOR SERVICE SINK ONE PIECE CONSTRUCTION	MUSTEE	63M	FAUCET - MUSTEE 63.600A HOSE AND HOSE HOLDER - MUSTEE 65.700 MOP HANGER - MUSTEE 65.600 BUMPER GUARDS - MUSTEE 63.401 WALL GUARDS - MUSTEE 67.2424	REMOVABLE STAINLESS STEEL STRAINER, MOUNT FAUCET 36" AFF.	
WC-1	FLOOR MOUNTED, FLUSH TANK, VITREOUS CHINA, WHITE, ELONGATED RIM, 1.6 GPF	KOHLER	HIGHLINE K-3611	SEAT - CHURCH 9500CT		☑
WH-1	GAS WATER HEATER, POWER DIRECT VENT	LOCHINVAR	PRN40 40ES	40 GAL CAPACITY 40,000 BTU/HR		
HB-1	EXPOSED, NON-FREEZE WALL HYDRANT, LOOSE KEY - W/ 3/4" VACUUM BREAKER	ZURN	Z1315	POLISHED BRONZE FACE	SET VALVE 4" MIN. INSIDE WALL	
WCO-1	WALL CLEANOUT	ZURN	Z1468	POLISHED STAINLESS STEEL WALL ACCESS COVER		
FD-1	FLOOR DRAIN, CAST IRON BODY W/ NICKEL BRONZE FINISH & ADJUSTABLE COLLAR	ZURN	ZN415S	5"x5" POLISHED NICKEL BRONZE TYPE "S" SQUARE STRAINER BARRIER TRAP SEAL- ZURN Z1072	VERIFY SETTING BEFORE CONCRETE SETS.	

PIPE INSULATION SCHEDULE

PIPE SYSTEM	THICKNESS	TYPE	REMARKS
DOMESTIC HOT WATER	1" TO 1 1/2" SEE NOTE 1	FIBERGLASS	SELF SEALING W/PVC FITTING COVERS
DOMESTIC COLD WATER	1"	FIBERGLASS	SELF SEALING W/PVC FITTING COVERS

1. FOR PIPING NO LARGER THAN 1 1/2", INSULATION THICKNESS SHALL BE 1", FOR PIPING 1 1/2" AND LARGER, INSULATION THICKNESS SHALL BE 1 1/2"

PIPE HANGER SCHEDULE



PIPE SIZE (NOMINAL)	HANGER SPACING (FT)				HANGER ROD SIZE
	STEEL	CAST IRON	COPPER	PVC/ABS	
1 1/2"	5	-	6	3	3/8"
3/4"	6	-	6	4	3/8"
1"	7	-	6	4	3/8"
1 1/4"	8	-	6	4	3/8"
1 1/2"	9	5	10	4	3/8"
2"	10	5	10	4	3/8"
2 1/2"	10	-	10	4	1/2"
3"	10	5	10	4	1/2"
4"	10	5	10	4	1/2"
5"	10	5	10	-	1/2"
6"	10	5	10	-	1/2"

PLUMBING LEGEND

PIPING			
	NEW	EXISTING	DEMOLISH
DOMESTIC COLD WATER	3/4" CW	3/4" CW	3/4" CW
DOMESTIC HOT WATER	3/4" HW	3/4" HW	3/4" HW
HOT WATER CIRCULATION	3/4" HWC	3/4" HWC	3/4" HWC
ROOF OVERFLOW DRAIN	3/4" OFD	3/4" OFD	3/4" OFD
ROOF DRAIN	3/4" RD	3/4" RD	3/4" RD
SANITARY VENT	3/4" SV	3/4" SV	3/4" SV
SANITARY WASTE	3/4" SW	3/4" SW	3/4" SW

VALVES	PIPE FITTINGS	PIPE FITTINGS
3-WAY VALVE	HOSE BIB	AIR CHAMBER
BALL VALVE	CONNECT TO EXISTING	AIR ELIMINATOR
BUTTERFLY VALVE	ELBOW DOWN	AIR SEPARATOR
CHECK VALVE	ELBOW UP	AUTOMATIC AIR VENT
CONTROL VALVE	TEE UP	COMPOUND GAUGE
GATE VALVE	TEE DOWN	PRESSURE GAUGE
GLOBE VALVE	CLEAN OUT	SHOCK ABSORBER
RELIEF VALVE	CONCENTRIC REDUCER	
BACK FLOW PREVENTER	ECCENTRIC REDUCER	
PRESSURE REDUCING VALVE	END CAP	
WATER REGULATOR VALVE	UNION	
GAS METER	STRAINER	
WATER METER	FLANGED CONNECTION	
	EXPANSION JOINT	

OTHER SYMBOLS
PLUMBING FIXTURE / EQUIPMENT TAG

GENERAL PLUMBING INFORMATION
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

SHEET	IDENTIFICATION No.	ISSUED FOR	DATE	DESIGNED	DRAWN	CHECKED	ST	APPROVED	TW
P-001	PROJECT FILE NUMBER: 0860-17-0010 ACCOUNTING TEMP: 2359/6110	<input checked="" type="checkbox"/> PRELIMINARY <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> FINAL RECORD	03/10/2021	LA	LA		ST		TW

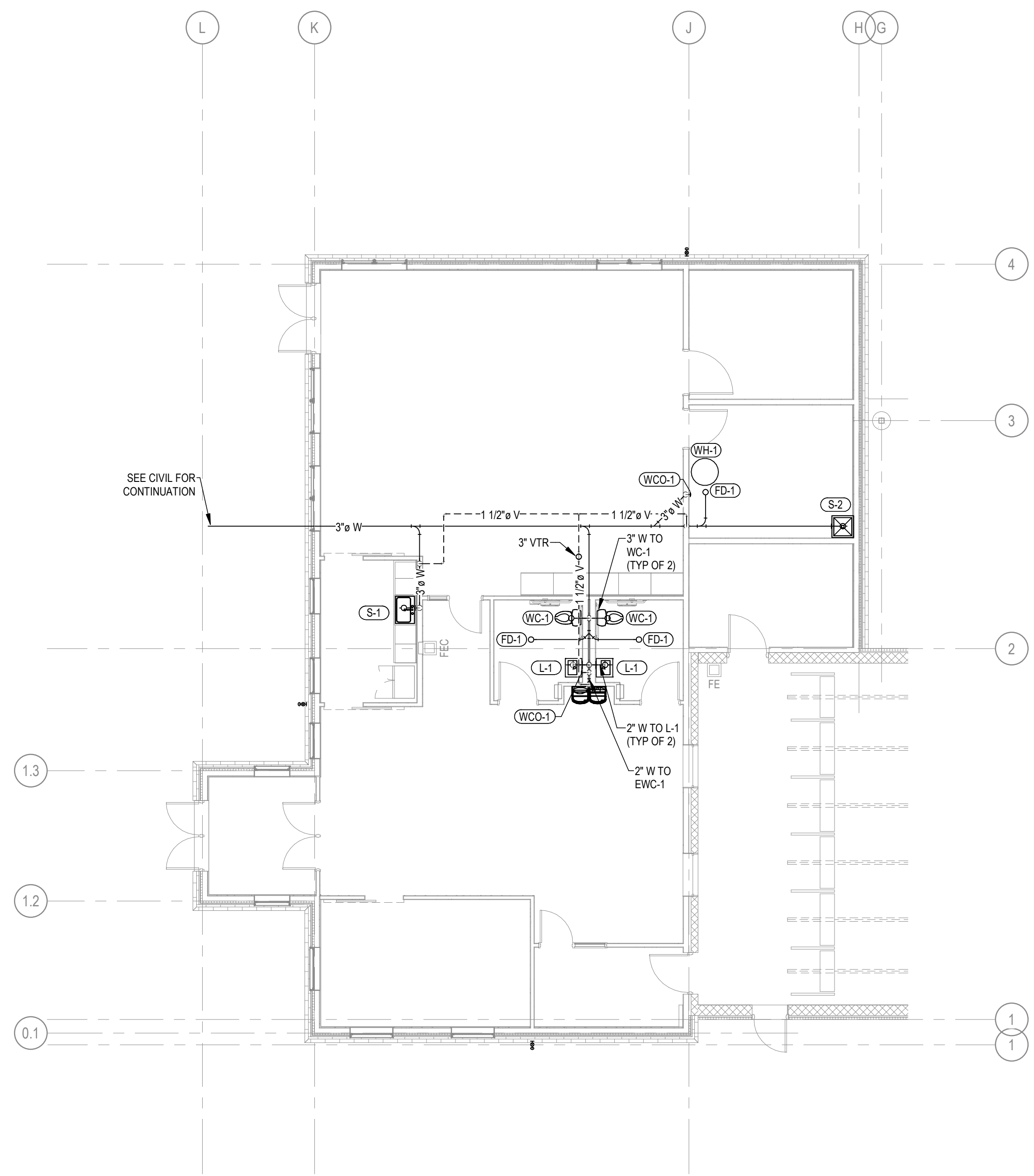


STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
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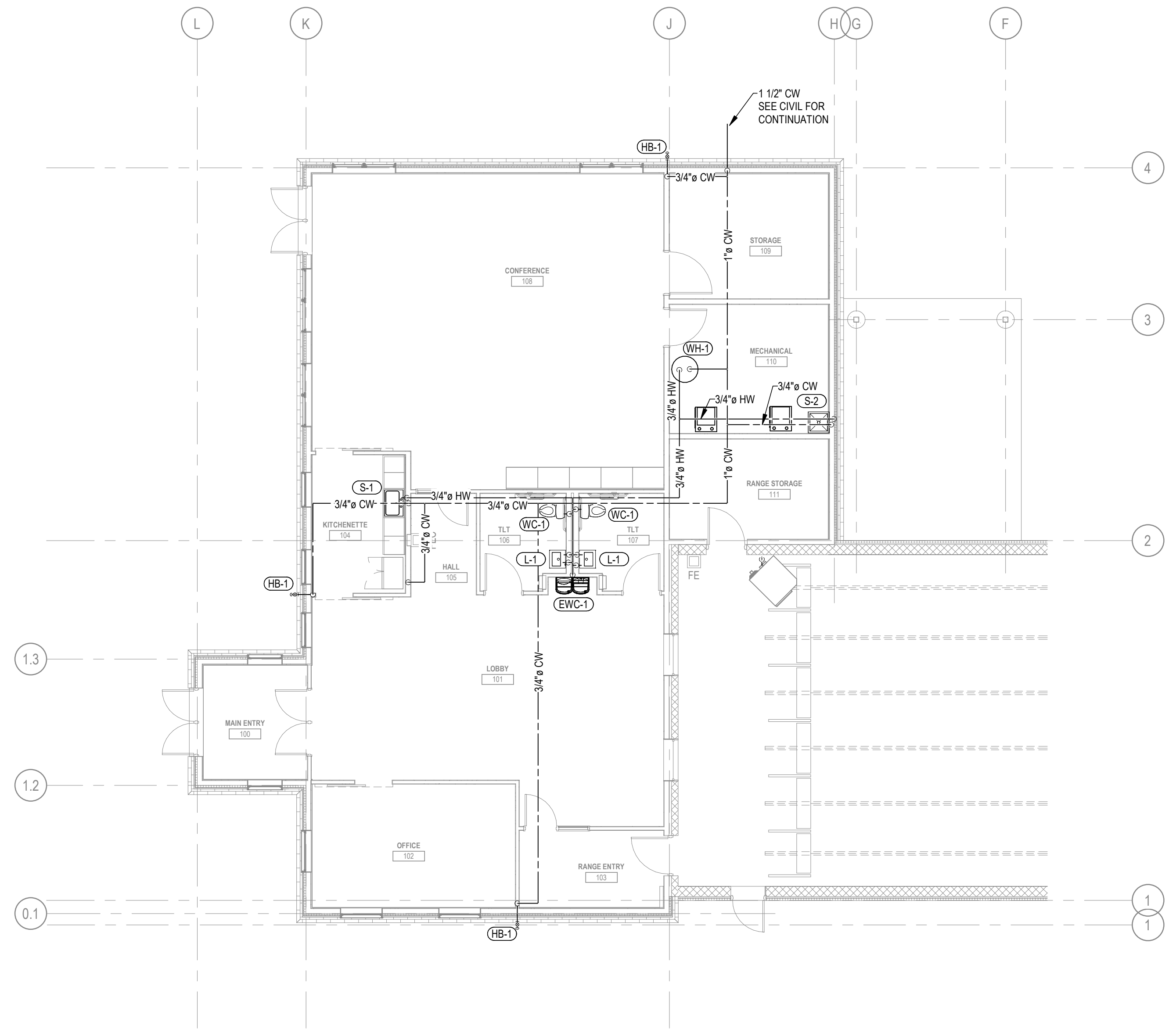
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

PLUMBING PLAN

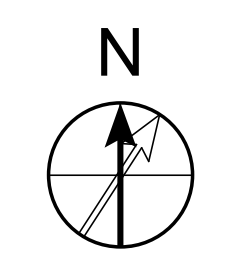
SHEET P-101	IDENTIFICATION No.	ISSUED FOR	DATE	DESIGNED
	PROJECT FILE NUMBER 0860-17-0010 ACCOUNTING TEMP. 2359/05/110	PRELIMINARY <input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> FINAL RECORD <input type="checkbox"/>	03/10/2021	LA
				DRAWN
				CHECKED
				ST
				APPROVED
				TW



2 DRAIN & WASTE VENT PLAN
1/8" = 1'-0"



1 DOMESTIC WATER PLAN
1/8" = 1'-0"



ELEC. ABBR.

Table of electrical abbreviations including symbols for special, phase, ampere, conduit, and various electrical components like breakers, fans, and heaters.

GENERAL NOTES - ELECTRICAL

- 1. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND ANY STATE/LOCAL AMENDMENTS.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF AN ELECTRICAL PERMIT AND SCHEDULING OF THE NECESSARY INSPECTIONS.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION REQUIRED WITH THE ELECTRIC UTILITY SERVING THE FACILITY.



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ELECTRICAL NOTES AND SYMBOLS

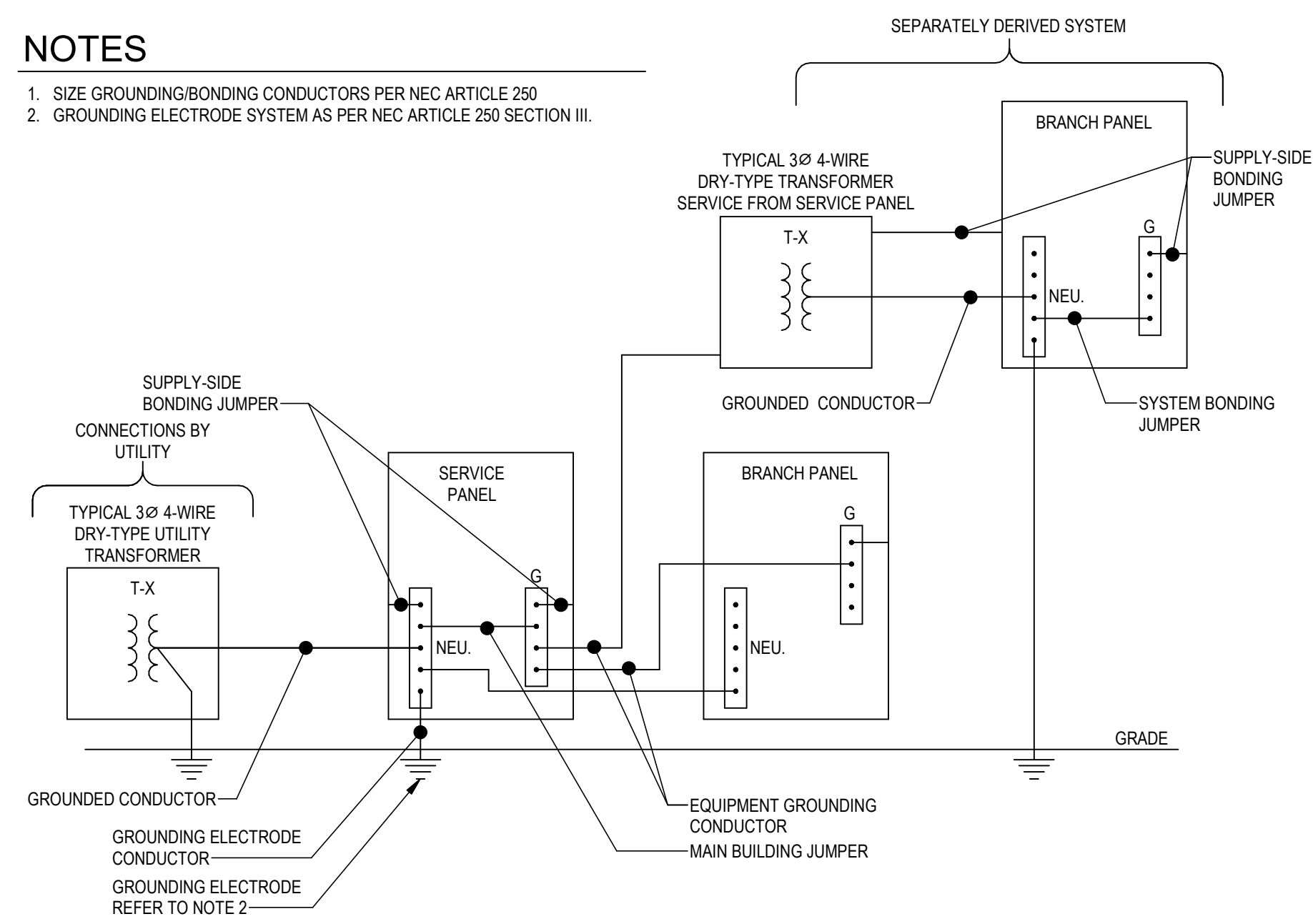
SHOOTING COMPLEX MICHIGAN DEPARTMENT OF NATURAL RESOURCES WESTERN PENINSULA SHOOTING FACILITY

GROUNDING BONDING DIAGRAM

N.T.S

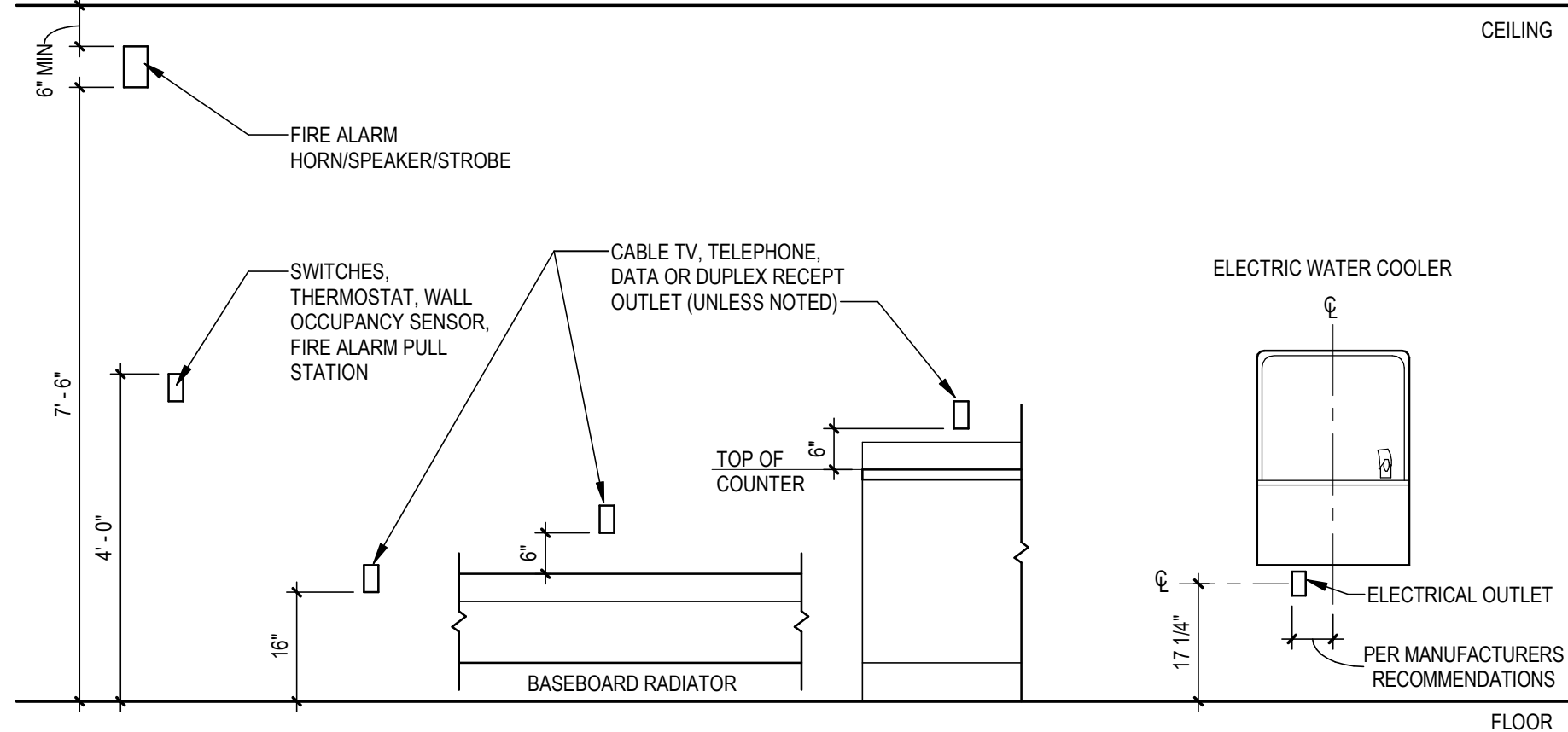
NOTES

- 1. SIZE GROUNDING/BONDING CONDUCTORS PER NEC ARTICLE 250
2. GROUNDING ELECTRODE SYSTEM AS PER NEC ARTICLE 250 SECTION III.



TYPICAL MOUNTING HEIGHTS

N.T.S



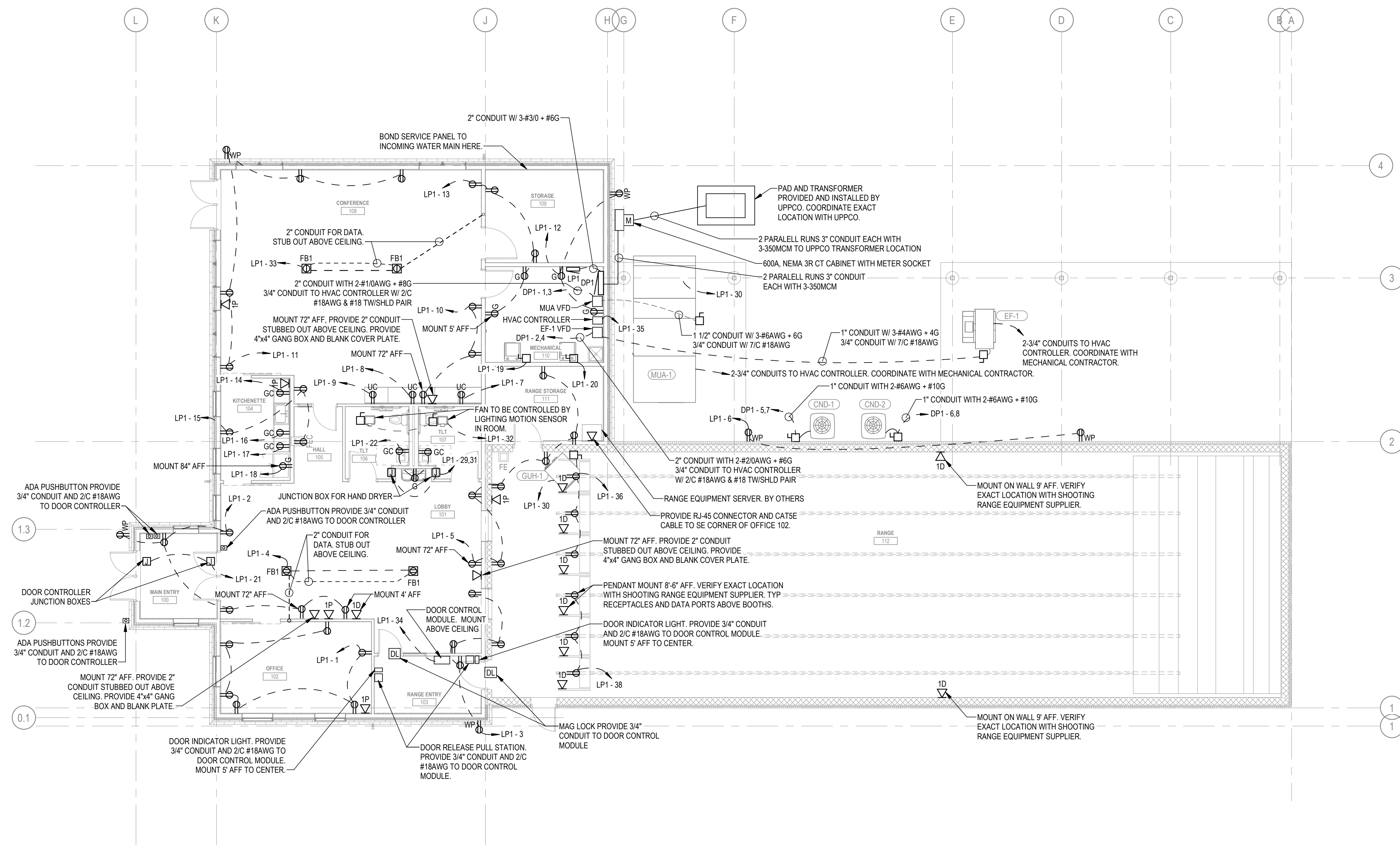
ELECTRICAL LEGEND

Comprehensive legend table for electrical symbols, including categories for Light Fixtures, Receptacle Outlets, Fire Alarm System, Switch Outlets, Power Distribution, Sensors, Security, Raceway Notes, and Wires.

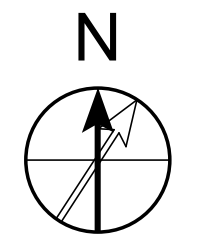


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- NOTE:
1. SEE DOOR HARDWARE SPECIFICATION FOR RANGE ENTRY AND MAIN ENTRY DOOR OPERATION.
 2. PROVIDE CAT5E CABLE TO SOUTH EAST CORNER OF OFFICE 102 FOR ALL PHONE JACKS. PROVIDE 10' COIL ABOVE OFFICE CEILING.
 3. PROVIDE CAT5E CABLE TO RANGE EQUIPMENT SERVER FOR ALL DATA PORTS MARKED 1D. PROVIDE AND INSTALL RJ-45 CONNECTOR ON SERVER END OF CABLE.



1 FLOOR 1 POWER PLAN
1/8" = 1'-0"



FLOOR 1 POWER PLAN
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

SHEET	IDENTIFICATION No.	PROJECT FILE NUMBER 0850-17-0010	ACCOUNTING TEMP. 2359/061110	ISSUED FOR	DATE	DESIGNED	BL
				PRELIMINARY	03/10/2021	DRAWN	RD
E-101				CONSTRUCTION		CHECKED	LM
				FINAL RECORD		APPROVED	CO

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FILE PATH: BIM\300\0850-17-0010 Lake Superior Sportsman's Club\0850\70010_MEP_LSSC SHOOTING COMPLEX 2020_CEN.rvt



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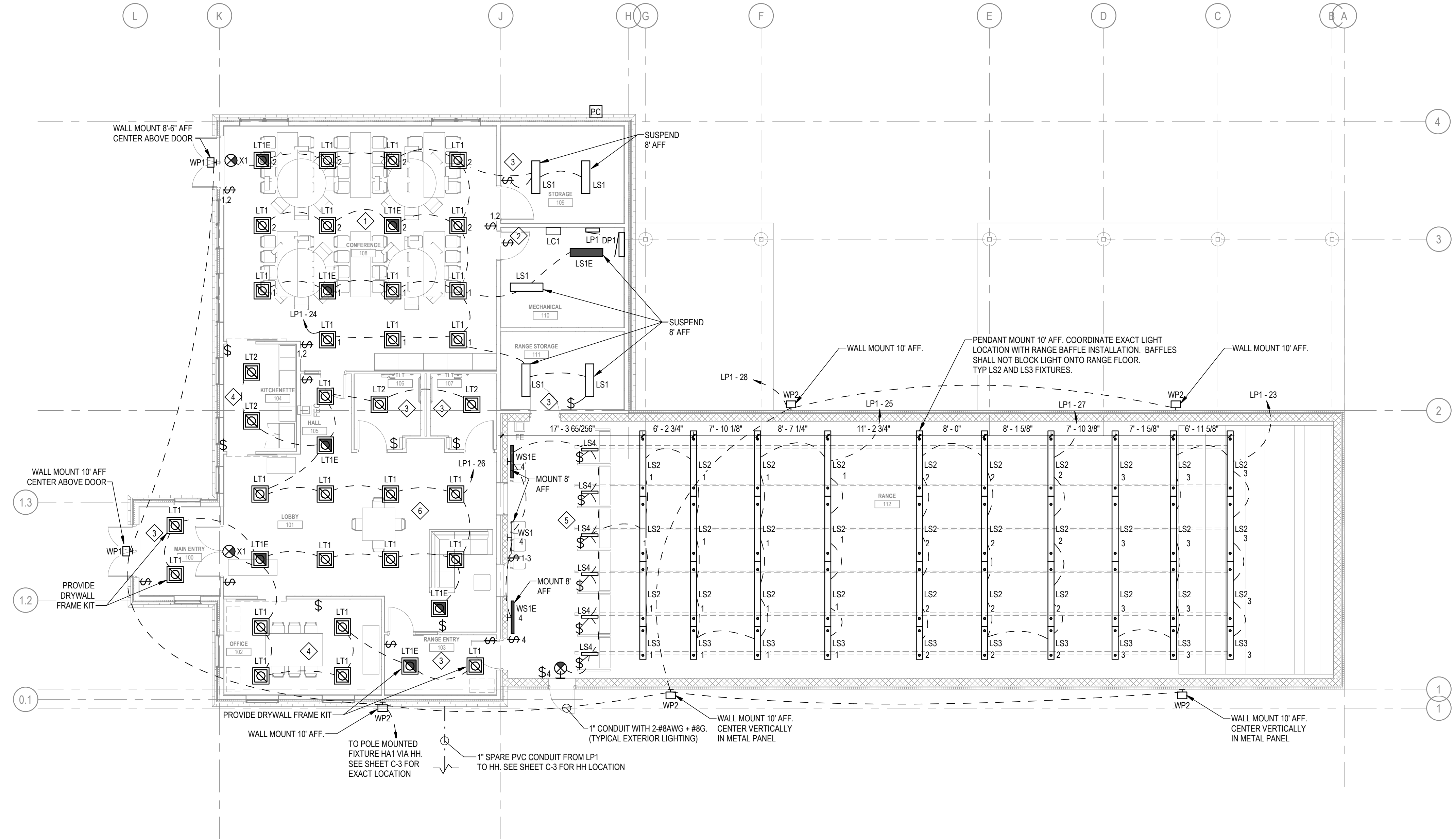
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OHM PROJECT No.

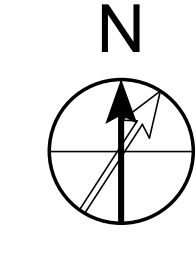


STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
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FLOOR 1 LIGHTING PLAN
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY



1 FLOOR 1 LIGHTING PLAN
1/8" = 1'-0"



SHEET E-102	IDENTIFICATION No.	ISSUED FOR	DATE	DESIGNED	BL
	PROJECT FILE NUMBER 0850-17-0010 ACCOUNTING TEMP. 235905110	PRELIMINARY CONSTRUCTION FINAL RECORD	03/10/2021	DRAWN CHECKED APPROVED	RD LM CO

Electrical Load Calculations

Phase	Description	Quantity	Unit	Quantity	Unit	kVA	Factor	kVA	Amps	
1	Lighting Loads (Range)	1	VA/sq.ft.	2572	sq.ft.	2.57	1.00	2.6	21.43	continuous
1	Lighting Loads (Business Area)	3.5	VA/sq.ft.	2540	sq.ft.	8.89	1.00	8.9	74.08	continuous
1	Exterior Lighting	8	each	100	VA	0.80	1.00	0.8	3.33	continuous
1	Receptacles (DUPLX) up to 10KVA	40	each	180	VA	7.20	1.00	7.2	30.00	continuous
1	Receptacles over 10KVA		each	180	VA	0.00	0.50	0.0	0.00	continuous
1	Microwave	1	each	1200	VA	1.20	1.00	1.2	5.00	non-continuous
1	Refridgerator	1	each	1200	VA	1.20	1.00	1.2	5.00	non-continuous
1	MUA (Range)	1	each	27000	VA	27.00	1.00	27.0	112.50	continuous
1	EF (Range)	1	each	31700	VA	31.70	1.00	31.7	132.08	continuous
1	Furnace	1	each	1200	VA	1.20	1.00	1.2	5.00	non-continuous
1	Condenser 1,2	2	each	8952	VA	17.90	1.00	17.9	74.60	non-continuous
			each		VA	0.00	1.00	0.0	0.00	non-continuous
	TOTAL kVA		Connected:			80.56		Demand: 99.67		

calcs based on 240-volt, 1-phase

Demand Load - each phase 415.3 Amps

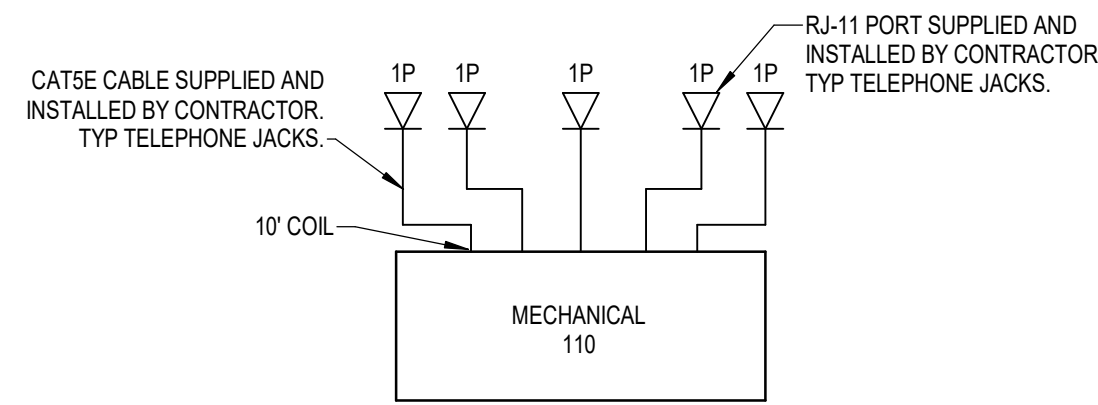
Continuous Load*1.25 - each phase 407 Amps

Non-continuous Load - each phase 90 Amps

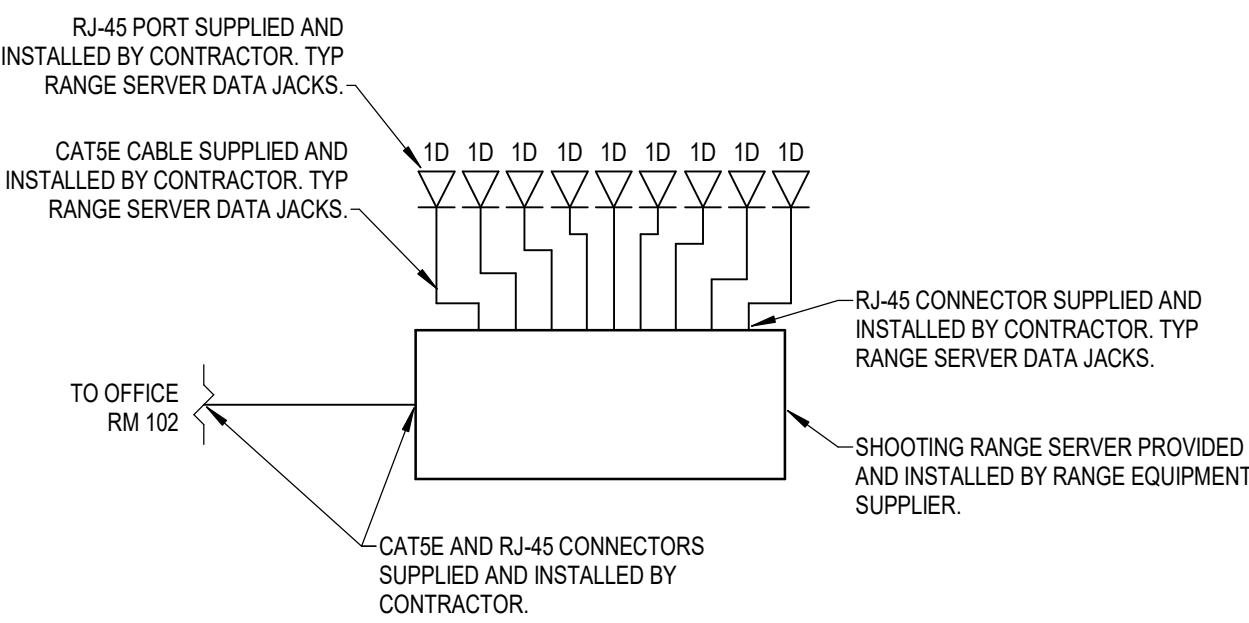
Total Amps - each phase 497 Amps

Actual Main Overcurrent Protection 600 Amps

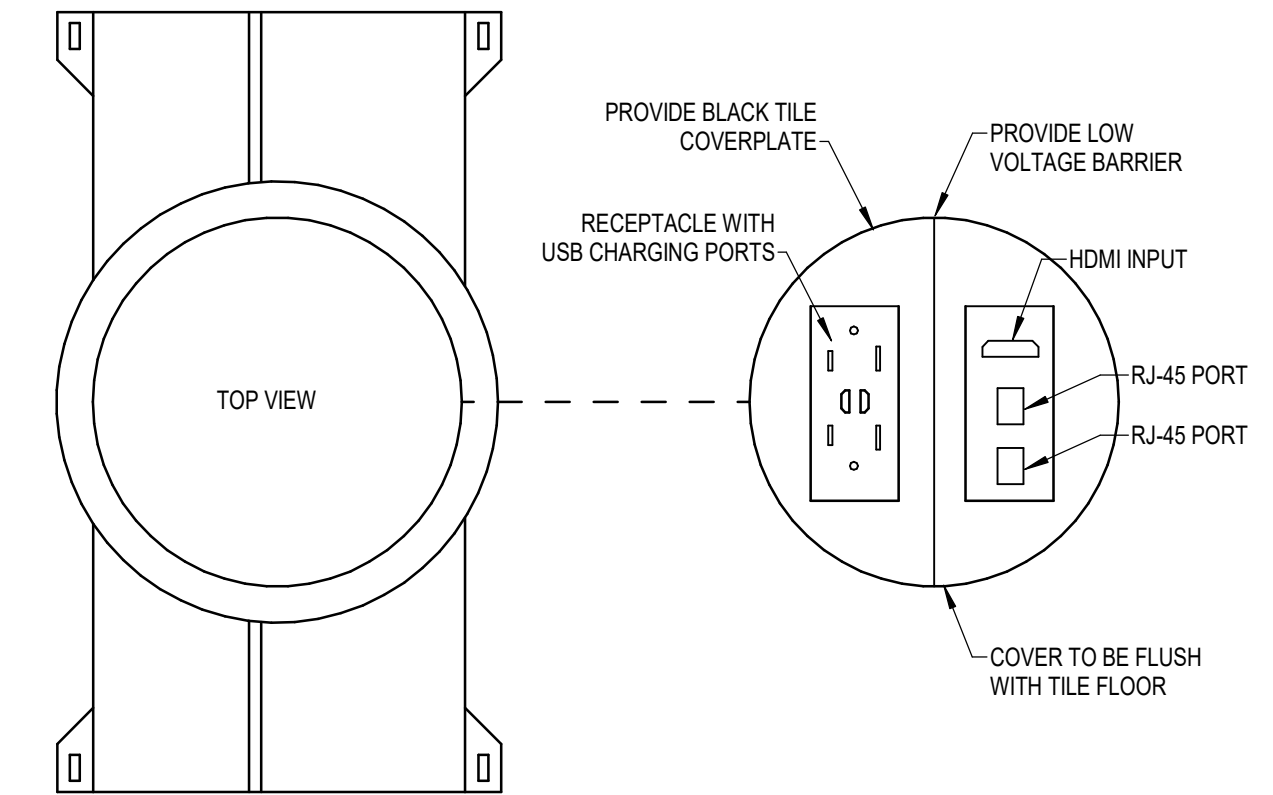
Project # 0860-17-0010



6 TELEPHONE RISER DIAGRAM
NTS

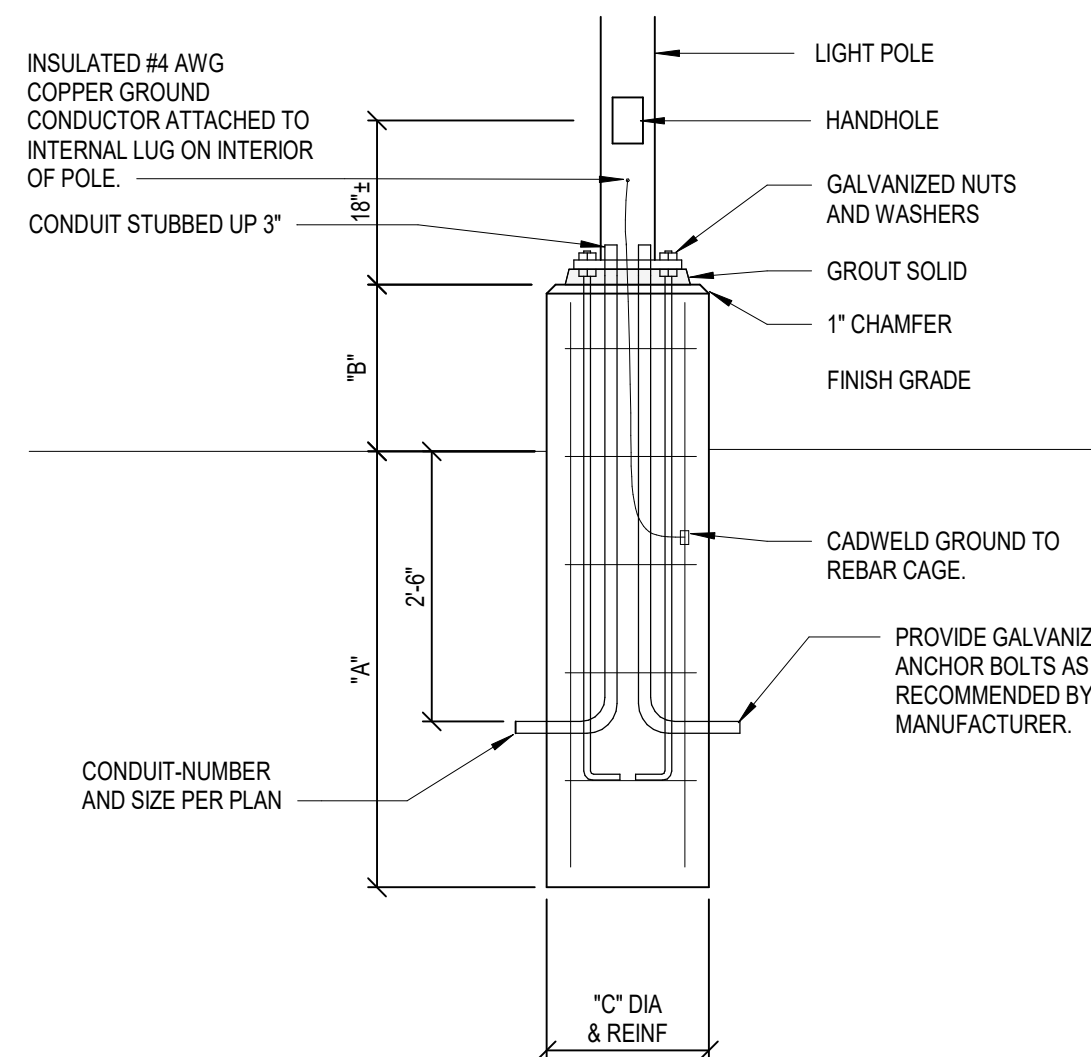


5 RANGE SERVER RISER DIAGRAM
NTS

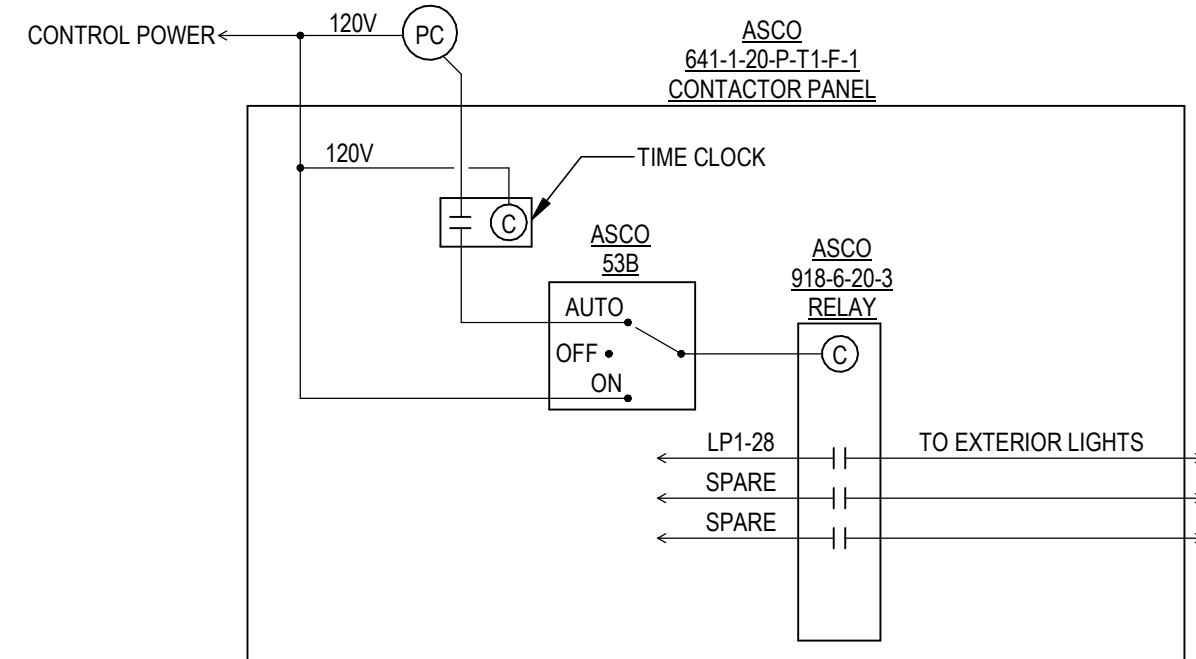


4 FB1 FACEPLATE DETAIL
NTS

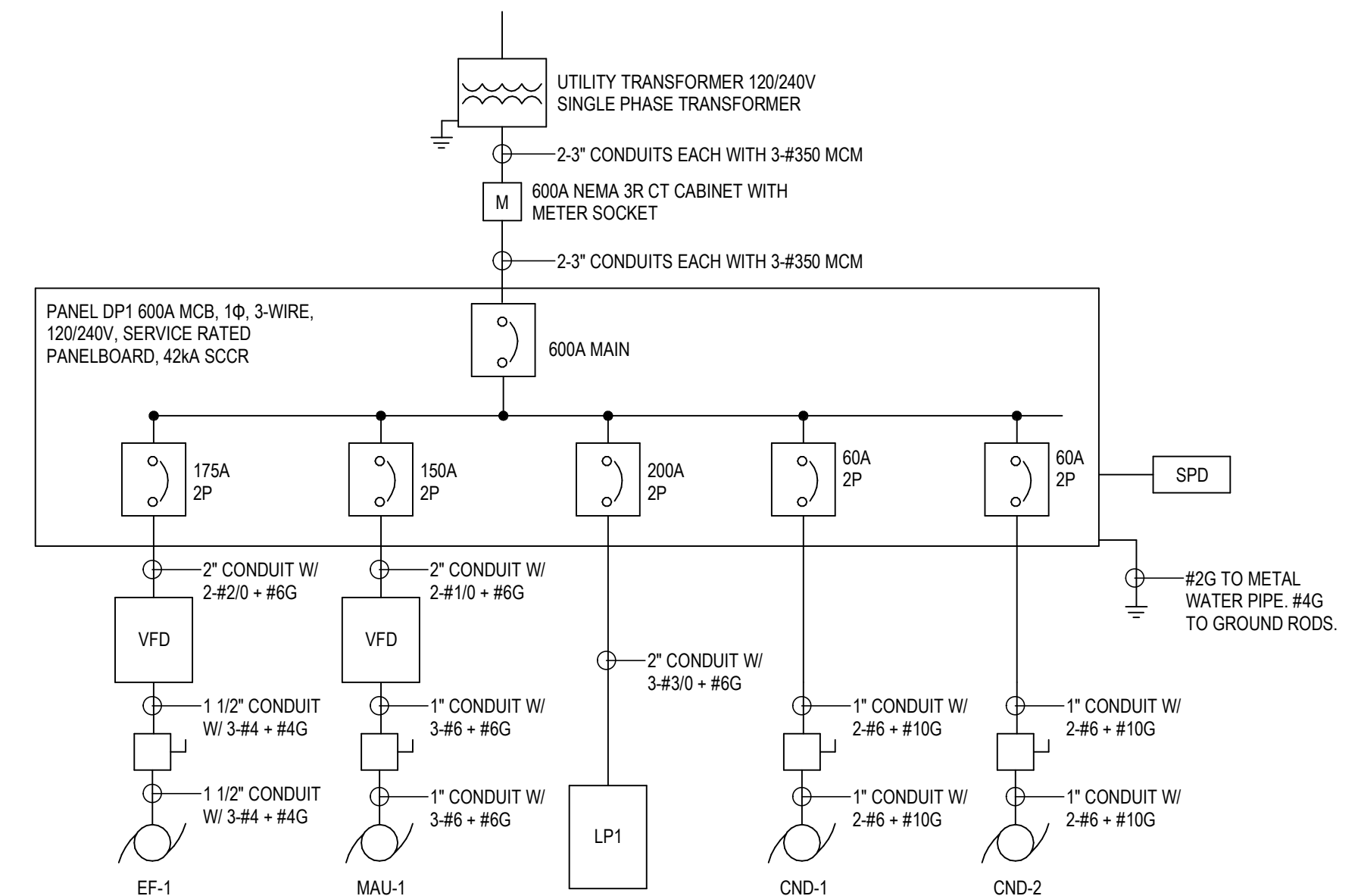
POLE SCHEDULE			
POLE PART: SSA30GDDB			
POLE HEIGHT	"A"	"B"	"C"
30' HIGH	6'-0"	2'-6"	24" DIA. CONCRETE BASE (6) #8 BARS VERTICAL, #3 TIES @ 12" OC



3 POLE BASE DETAIL
NTS



2 RELAY CONTROL PANEL LC1 DIAGRAM
NTS



1 ELECTRICAL ONELINE DIAGRAM
NTS



STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ROBERT C. HALL, RA, NCARB, DIRECTOR

ELECTRICAL DETAILS
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

SHEET	IDENTIFICATION No.	PROJECT FILE NUMBER	ISSUED FOR	DATE	DESIGNED	BL	RD
E-501	0860-17-0010	0860-17-0010	PRELIMINARY CONSTRUCTION	03/10/2021	BL	RD	
	ACCOUNTING TEMP.	2359/05110	FINAL RECORD		CO		

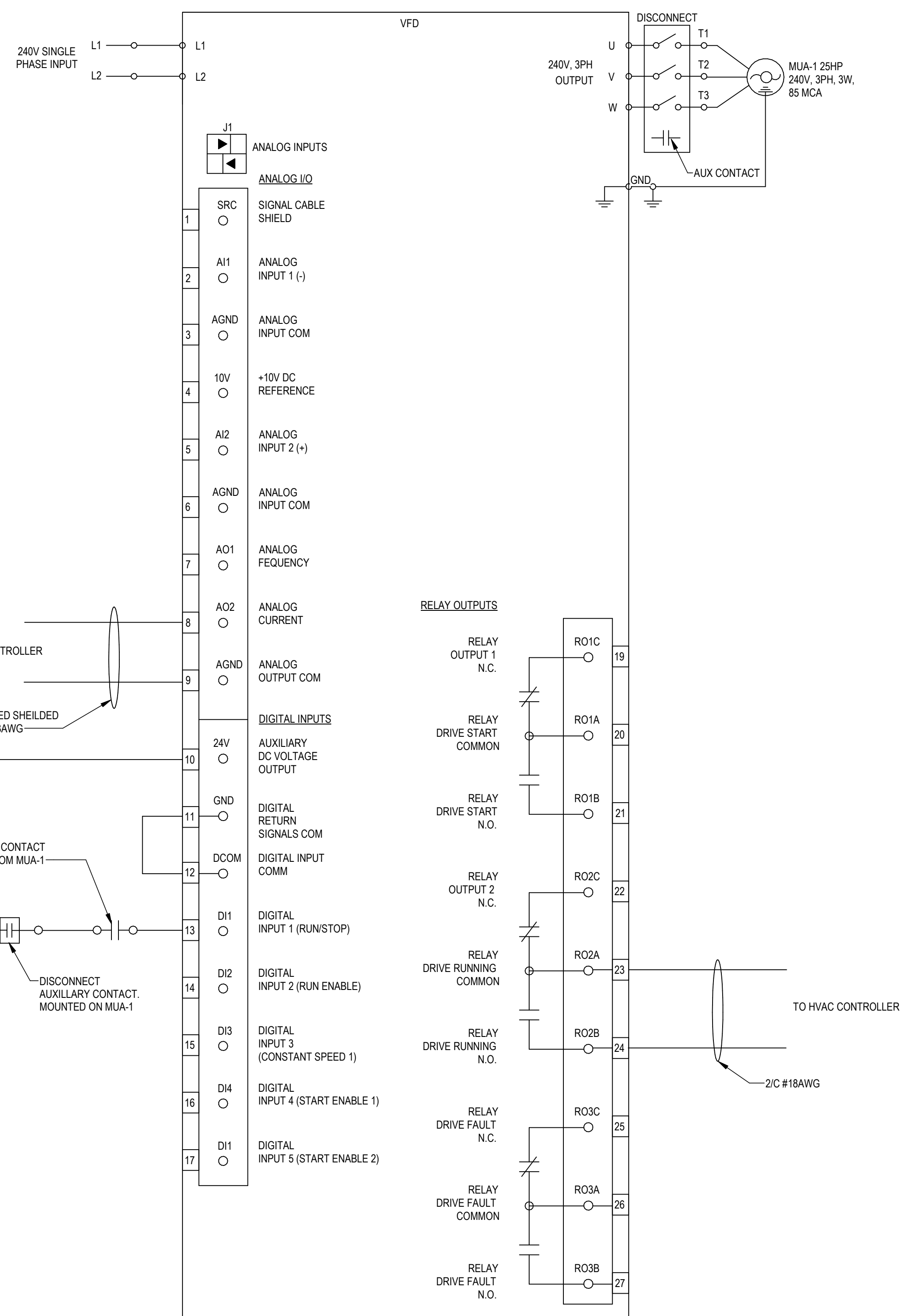


STATE OF MICHIGAN
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STATE FACILITIES ADMINISTRATION
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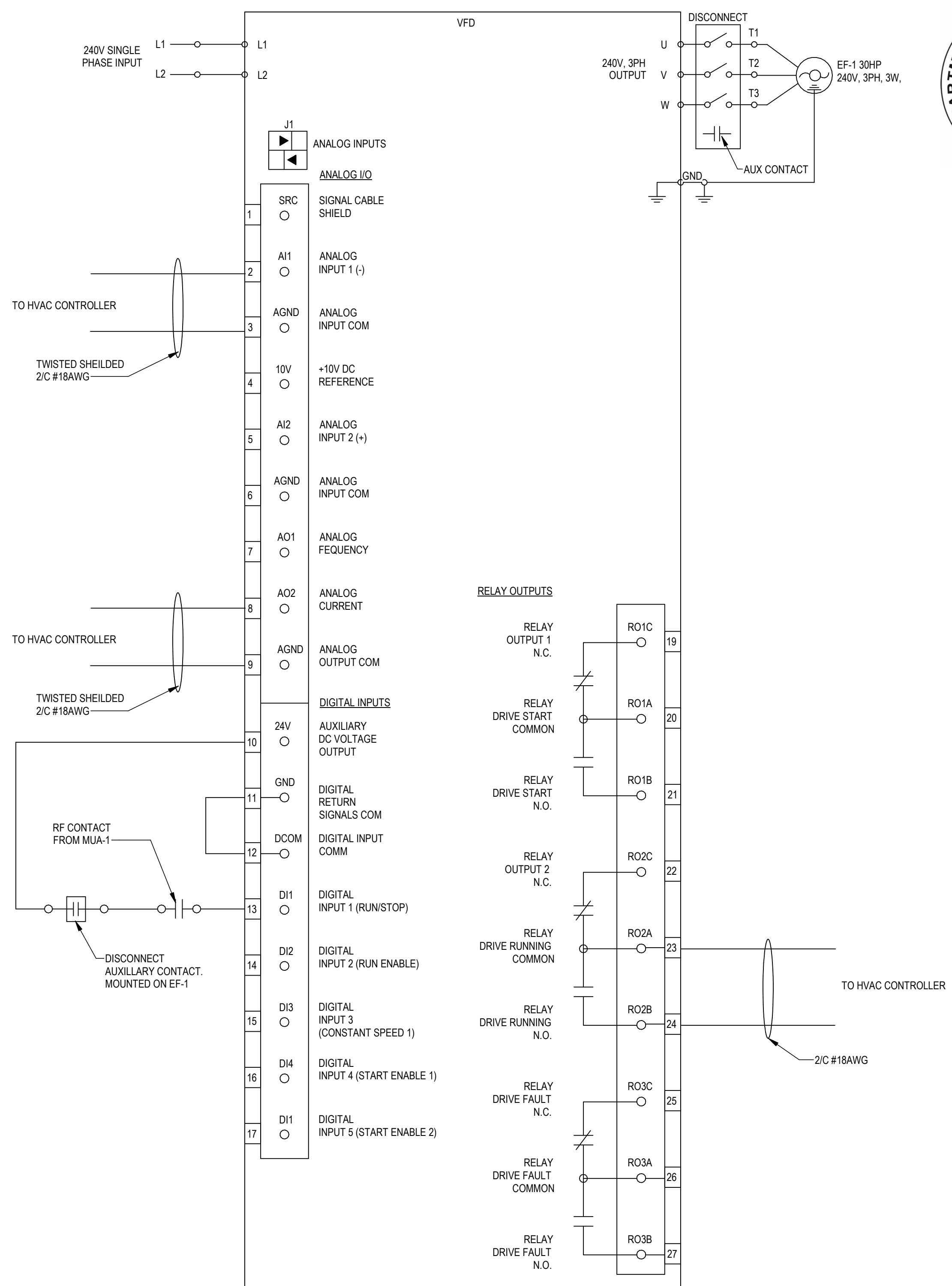
ELECTRICAL DIAGRAMS
SHOOTING COMPLEX
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

SHEET	IDENTIFICATION No.	PROJECT FILE NUMBER 0850-17-0010	ACCOUNTING TEMP. 2359/05110	ISSUED FOR	DESIGNED	BL	
					DRAWN	RD	
E-502	DATE	03/10/2021		CHECKED	LM	APPROVED	CO
		PRELIMINARY	CONSTRUCTION				

NOTE:
1.) UPSIZE VFD FOR SINGLE PHASE INPUT.



2 MUA-1 VFD WIRING DIAGRAM
NTS



1 EF-1 VFD WIRING DIAGRAM
NTS

LIGHTING FIXTURE SCHEDULE

SCHEDULE NOTES:
1.
2.

TYPE	DESCRIPTION	MFR.	CATALOG #	LAMPS	WATTS	NOTES
HA1	POLE MOUNTED FIXTURE	MCGRW EDISON	GLEON-AF-03-LED-E1-SL3-BZ-QMEA-LED	LED	191	PROVIDE SSA30GDDDB POLE
LS1	LINEAR STRIP LIGHT	METALUX	4SNLED-LD5-34SL-LC-UNV-L840-C-D1	LED	25	
LS1E	LINEAR STRIP LIGHT EMERG	METALUX	4SNLED-LD5-34SL-LC-UNV-EL14W-L840-C-D1	LED	25	REQUIRES UNSWITCHED HOT
LS2	LINEAR PENDANT LIGHTING FIXTURE	METALUX	8WSL-LD2-60-SPC-UNV-L840-CD1	LED	53.5	PROVIDE ARLINGTON BOX FS420SCL
LS3	LINEAR PENDANT LIGHTING FIXTURE	METALUX	4WSL-LD2-50-SPC-UNV-L840-CD1	LED	44.8	PROVIDE ARLINGTON BOX FS420SCL
LS4	LINEAR STRIP LIGHT	METALUX	2BCLED-LD4-28HL-F-UNV-L840	LED	29	
LT1	2 X 2 RECESSED TROFER	METALUX	22FP3240C	LED	29.2	
LT1E	2 X 2 RECESSED TROFER EMERG	METALUX	22FP3240C-EL14W	LED	29.2	REQUIRES UNSWITCHED HOT
LT2	2 X 2 RECESSED TROFER	METALUX	22FP4240C	LED	38.3	
WP1	WALL PACK	LUMARK	XTOR2B-W	LED	18	
WP2	WALL PACK	LUMARK	XTOR8BRL-W	LED	81	
WS1	4' LED WALL MOUNT	METALUX	4SWLED-80HL-LN-UNV-L840	LED	82.4	
WS1E	LINEAR STRIP LIGHT EMERG	METALUX	4SWLED-80HL-LN-UNV-EL14W-L840	LED	82.4	
X1	EXIT SIGN	SURE-LITES	LPX7	LED	18	REQUIRES UNSWITCHED HOT

LIGHTING CONTROL SCHEDULE

SCHEME NO.	MANUAL ON	NO. OF SCENES	MULTIPLE ZONES	DAYLIGHTING	OCCUPANCY SENSOR	VACANCY SENSOR	ORDER OF OPERATIONS
1	X	1	X	X		X	WALL MOUNTED SWITCH TURNS ON ALL FIXTURES ON TO 100%. ALL FIXTURES TURN OFF 15 MINUTES AFTER ROOM IS VACATED. DAYLIGHT SENSOR TO BE 0-10V DIMMING AND CONTROL ALL FIXTURES IN THE SPACE. WALL DIMMER TO CONTROL ALL FIXTURES IN THE SPACE AND CONTROL ZONES INDEPENDENTLY.
2	X	1					WALL MOUNTED SWITCH TO TURN ALL FIXTURES ON 100%. MANUAL SWITCH TO TURN ALL FIXTURES OFF. ALL FIXTURES TO BE DIMMABLE. WALL DIMMER TO CONTROL ALL FIXTURES IN THE SPACE.
3		1			X		OCCUPANCY SENSOR TO TURN ON FIXTURES TO 100%. FIXTURES TURN OFF 15 MINUTES AFTER AREA IS VACATED. WALL SWITCH FOR ON/OFF CONTROL. ALL FIXTURES TO BE DIMMABLE.
4	X	1				X	WALL MOUNTED SWITCH TURNS ALL FIXTURES ON TO 100%. ALL FIXTURES TURN OFF 15 MINUTES AFTER ROOM IS VACATED. WALL DIMMER TO CONTROL ALL FIXTURES IN THE SPACE. ALL FIXTURES TO BE DIMMABLE.
5	X	1	X			X	WALL MOUNTED SWITCH TURNS ALL ZONES ON SWITCH TO 100%. ALL FIXTURES TURN OFF 15 MINUTES AFTER ROOM IS VACATED. WALL DIMMER TO CONTROL ALL ZONES ON SWITCH AND CONTROL ZONES ON SWITCH INDEPENDENTLY. ALL FIXTURES TO BE DIMMABLE.
7		1			X		OCCUPANCY SENSOR TO TURN ON FIXTURES TO 100%. ALL FIXTURES TURN OFF 15 MINUTES AFTER ROOM IS VACATED. WALL SWITCHES FOR ON/OFF CONTROL AND DIMMING OF ALL FIXTURES IN THE SPACE. ALL FIXTURES TO BE DIMMABLE.

1 SCHEME NO.

MAIN PANEL: DP1

LOCATION: MECHANICAL 110 VOLTS: 120/240 Single A.I.C. RATING: 65k
 SUPPLY FROM: PHASES: 1 MAINS TYPE: MCB
 MOUNTING: SURFACE WIRES: 3 MAINS RATING: 600.0 A
 ENCLOSURE: Type 1 MCB RATING: 600.0 A

NOTES:

IDENTIFICATION	WIRE	POLE	AMP	CKT	A KVA	B KVA	A KVA	B KVA	CKT	AMP	POLE	WIRE	IDENTIFICATION
MUA-1	1/0	2	150	1	13.00		15.90		2	175	2	2/0	EF-1 VFD (240V)
				3	13.50		15.90	4					
				5	4.50	4.50	4.50	6					
CND-1	6	2	60	7	4.50		4.50	8	60	2	6	CND-2	
				9	10.00		10						
LP1	3/0	2	200	11	7.04			12					
CONNECTED LOAD: (KVA)					49.34		0.00						

BRANCH PANEL: LP1

LOCATION: MECHANICAL 110 VOLTS: 120/240 Single A.I.C. RATING: 22k
 SUPPLY FROM: DP1 PHASES: 1 MAINS TYPE: MLO
 MOUNTING: SURFACE WIRES: 3 MAINS RATING: 200.0 A
 ENCLOSURE: TYPE 1

NOTES:

IDENTIFICATION	WIRE	POLE	AMP	CKT	A	B	A	B	CKT	AMP	POLE	WIRE	IDENTIFICATION
RECEPTS RM 102	12	1	20	1	1.08		1.08		2	20	1	12	RECEPTS RM...
RECEPTS RM101,103,112	12	1	20	3	0.90		0.36		4	20	1	12	FLOOR BOXES RM 101
RECEPTS RM 111,112, 101	12	1	20	5	1.26		0.36		6	20	1	12	EXTERIOR RECEPTS
RECEPT RM 108	12	1	20	7	0.18		0.18		8	20	1	12	RECEPT RM 108
RECEPT RM 108	12	1	20	9	0.18		0.54		10	20	1	12	RECEPTS RM 108
RECEPTS RM 108	12	1	20	11	0.90		0.54		12	20	1	12	SERVICE RECEPT RM 110
RECEPTS RM 109, 108	12	1	20	13	0.90		0.18		14	20	1	12	RECEPT RM 104
RECEPTS RM 104,105	12	1	20	15	0.54		0.18		16	20	1	12	RECEPT RM 104
RECEPT RM 104	12	1	20	17	0.18		0.18		18	20	1	12	RECEPT RM 104
FURNACE DISCONNECT	12	1	20	19	0.00		0.00		20	20	1	12	FURNACE DISCONNECT
DOOR OPERATORS	12	1	20	21	1.00		0.54		22	20	1	12	RECEPTS RM 106,107
LIGHTS RANGE	12	1	20	23	0.57		0.01		24	20	1	12	LIGHTS
LIGHTS RANGE	12	1	20	25	0.99		0.01		26	20	1	12	LIGHTS
LIGHTS RANGE	12	1	20	27	0.57		0.75		28	20	1	12	EXTERIOR WALL PACKS
HAND DRYERS	12	2	20	29	0.50		0.74		30	20	1	12	MUA-1, GUH-1
				31	0.50		0.50		32	20	1	12	TOILET ROOM FANS
FLOOR BOXES RM 108	12	1	20	33	0.18		0.50		34	20	1	12	DOOR CONTROL MODULE
HVAC CONTROLLER	12	1	20	35			0.18		36	20	1	12	RECEPTS BOOTHS NORTH
FUTURE POLE LIGHT	--	1	20	37	0.00		0.54		38	20	1	12	RECEPTS BOOTHS SOUTH
				39					40				
CONNECTED LOAD: (KVA)					16.9	KVA							



ELECTRICAL SCHEDULES

SHOOTING COMPLEX

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
WESTERN PENINSULA SHOOTING FACILITY

DESIGNED BL
DRAWN RD
CHECKED LM
APPROVED CO

ISSUED FOR DATE
03/10/2021

ISSUED FOR
 PRELIMINARY
 CONSTRUCTION
 FINAL RECORD

IDENTIFICATION NO.
PROJECT FILE NUMBER
086A-17-0010
ACCOUNTING TEMP.
2359/05110

SHEET
E-601