



CENTRALBIDDING
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13-26 -- Lakeshore Elementary Office Renovation and Canopy
Ouachita Parish School Board

Project documents obtained from www.CentralBidding.com

07-Jan-2026 11:18:39 AM

Lakeshore Elementary School Office Renovation and Canopy Repair



RENDERINGS ARE CONCEPTUAL IN NATURE AND ARE PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. THEY DO NOT REPRESENT FINAL CONSTRUCTION DETAILS OR MATERIALS AND SHALL NOT BE USED FOR BIDDING, PERMITTING, OR CONSTRUCTION.

550 Balboa Dr, Monroe, LA 71203

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TBA

103 CYPRESS STREET
WEST MONROE, LA 71291
PHONE: 318-340-1550

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318-617-5686

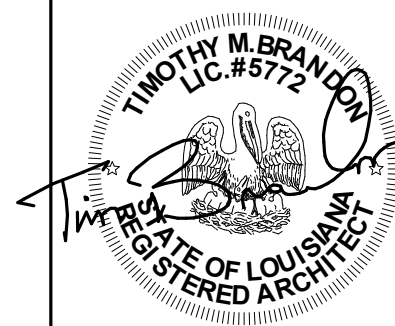
STRUCTURAL ENGINEER



3003 KNIGHT STREET
SHREVEPORT, LA
318-425-7452

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

TBA



Lakeshore Elementary School Office
Renovation and Canopy Repair

550 Balboa Dr, Monroe, LA 71203

DRAWING REVISIONS

No.	Description	Date

DRAWN BY: CJ, GS

CHECKED BY: CW

SHEET

G1.01

Date: 2025

Project No: 25-WM0039

File Name:

DESCRIPTION:

COVER SHEET

ABBREVIATIONS

# & @	NUMBER AND AREA	F.E.B.	FIRE EXTINGUISHER ON BRACKET	O.C.	ON CENTER
A/C	AIR CONDITIONING	F.E.C.	FIRE EXTINGUISHER IN CABINET	O.H.	OPPOSITE HAND
ACQUST.	ACOUSTIC(AL)	F.F.	FINISHED FLOOR	OPG.	OPENING
ADDL.	ADDITIONAL	FL.	FLOOR	PAR.	PARALLEL
ADJ.	ADJACENT	FLSH'G.	FLASHING	PART.	PARTITION
A.F.F.	ABOVE FINISHED FLOOR	FLUOR.	FLUORESCENT	PG.	PAGE
ALT.	ALTERNATE(ING)	FOOT.FEET	FOOT.FEET	P.LAM.	PLASTIC LAMINATE
ALUM.	ALUMINUM	FTG.	FOOTING	P.W.D.	PLYWOOD
APPROX.	APPROXIMATE(LY)	FURR.	FURRED, FURRING	PTD.	PAINTED
ARCH.	ARCHITECT(URAL)	FRP.	FIRE RET	P.T.D.	PAPER TOWEL DISPENSER
AVG.	AVERAGE				
		G.C.	GENERAL CONTRACTOR	Q.T.	QUARRY TILE
		GEN.	GENERAL		
BD.	BOARD	GND.	GROUND	RA	RETURN AIR
BLDG.	BUILDING	G.B.	GRAB BAR	RCP	REFLECTED CEILING PLAN
BLK.	BLOCK	GYP.	GYPNUM BOARD	REF.	REFERENCE
BLK'G.	BLOCKING	GYP.BD.	GYPNUM BOARD	RM.	ROOM
BM.	BEAM			RO.	ROTATED
B.N.	BULLNOSE	H.C.	HOLLOW CORE		
BOT.	BOTTOM	H.D.	ELECTRIC HAND DRYER	SCHED.	SCHEDULE
BTWN.	BETWEEN	H.M.	HOLLOW METAL	S.D.	SOAP DISPENSER
		HORIZ.	HORIZONTAL	SECT.	SECTION
CER.	CERAMIC	HT.	HEIGHT(H)	SHT.	SHEET
CIR.	CIRCLE	HTG.	HEATING	SHTG.	SHEETING
C.J.	CONTROL JOINT	HVAC	HEATING VENTILATING & A/C	SIM.	SIMILAR
CLG.	CEILING	H.W.	HOT WATER	SPEC'D.	SPECIFIED
CLR.	CLEAR	ID	INTERIOR DECOR	SPECS.	SPECIFICATIONS
CMU	CONCRETE MASONRY UNIT	IN.	INCH(ES)	SQ.	SQUARE
COL.	COLUMN	INFO.	INFORMATION	STG.	SEATING
CONC.	CONCRETE	INSUL.	INSULATION	STL.	STEEL
CONT.	CONTINUOUS	INT.	INTERIOR	STOR.	STORAGE
CPT	CARPER			SYM.	SYMBOLS
CTR	CENTER	JST.	JOIST	SYS.	SYSTEM
C.T.	CERAMIC TILE	JT.	JOINT		
C.TA.	CHANGING TABLE	KIT.	KITCHEN	TB.	TAC BOARD
C.T.B.S.	COLOR TO BE SELECTED BY ARCHITECT			TEL.	TELEPHONE
DEMO.	DEMOLISH(ION)	LAM.	LAMINATE	TEMP.	TEMPER(ED)
DET.	DETAIL	LAV.	LAVATORY(IES)	T.O.A.	TOP OF ATRIUM
DIA.	DIAMETER	LG.	LENGTH	T.O.P.	TOP OF PARAPET
DIAG.	DIAGNOL	LGTH.	LENGTH	T.S.	TUBULAR STEEL
DIM.	DIMENSION	LT.	LIGHT	TYP.	TYPICAL
DN.	DOWN				
DWG.	DRAWING	UNF.	UNFINISHED		
DWR.	DRAWER	UTIL.	UTILITY	U.N.O.	UNLESS NOTED OTHERWISE
		MACH.	MACHINE		
E.	EAST	MATL.	MATERIAL	VERT.	VERTICAL
EA.	EACH	MB	MARKER BOARD	VOL.	VOLUME
E.D.F.	ELECTRIC DRINKING FOUNTAIN	M.B.M.	METAL BUILDING MANUFACTURER	V.T.	VINYL TILE
E.H.D.	ELECTRIC HAND DRYER	MECH.	MECHANICAL	V.W.O.	VERIFY WITH OWNER
E.I.F.S.	ELECTRIC INSULATION FINISH SYSTEM	MET.	METAL		
		MFR.	MANUFACTURER	W/	WITH
E.J.	ELECTRIC(IAL)	MIN.	MINIMUM	W/C	WATER CLOSET
ELEC.	ELEVATION	MISC.	MISCELLANEOUS	WD.	WOOD
ELEV.	ENGINEERING(ING)	MTB	MARKER BOARD & TACK BOARD	W.H.	WATER HEATER
ENG.	EQUAL			W/O	WITHOUT
EQ.	EQUAL	N.	NORTH	WT.	WEIGHT
EXH.	EXHAUST	N.I.C.	NOT IN CONTRACT	WTH.	WIDTH
EXIST.	EXISTING	N.T.S.	NOT TO SCALE		
EXT.	EXTERIOR			YD.	YARD

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED BUILDING CODES AND JURISDICTIONAL REQUIREMENTS.
2. ALL WORK SHALL CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, DIMENSIONS, AND POTENTIAL CONFLICTS PRIOR TO CONSTRUCTION.
4. ANY DISCREPANCIES IN DRAWINGS OR FIELD CONDITIONS MUST BE REPORTED TO THE DESIGN TEAM BEFORE PROCEEDING.
5. NO DEVIATIONS, MODIFICATIONS, OR MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE OWNER AND DESIGN TEAM.
6. SHOP DRAWINGS ARE REQUIRED FOR ALL SHOP-FABRICATED MATERIALS, INCLUDING BUT NOT LIMITED TO STRUCTURAL COMPONENTS, MILLWORK, METALWORK, AND PLUMBING MATERIALS.
7. ALL MATERIAL SELECTIONS INVOLVING COLOR SELECTIONS SHALL BE SUBMITTED AT ONE TIME FOR ARCHITECT APPROVAL. THE CONTRACTOR SHALL SUBMIT ALL REQUIRED SELECTIONS EARLY IN THE PROJECT TO AVOID CONSTRUCTION DELAYS.
8. PHYSICAL SAMPLES OF ALL MATERIALS SHALL BE PROVIDED FOR SELECTION AND APPROVAL BEFORE FINALIZING PROCUREMENT AND INSTALLATION.
9. THE ARCHITECT WILL NOT BE HELD ACCOUNTABLE FOR DELAYS CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE MATERIAL SELECTIONS IN A TIMELY MANNER.
10. PAINTS, COATINGS, AND FINISHES SHALL BE APPLIED PER MANUFACTURER INSTRUCTIONS AND APPROVED SUBMITTALS.
11. SUBSTRATES MUST BE PROPERLY PREPARED BEFORE APPLYING FLOORING, TILE, OR WALL FINISHES.
12. THE CONTRACTOR SHALL MAINTAIN A WEATHER-TIGHT ENCLOSURE AS SOON AS POSSIBLE TO PROTECT INTERIOR MATERIALS AND FINISHES.
13. A LICENSED WATERPROOFING COMPANY SHALL INSTALL ALL FLUID-APPLIED WATERPROOFING IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND PROJECT SPECIFICATIONS.
14. FLASHING, WATERPROOFING, AND SEALANTS MUST BE INSTALLED PER MANUFACTURER SPECIFICATIONS TO PREVENT WATER INTRUSION.
15. ROOF PENETRATIONS AND WALL OPENINGS SHALL BE PROPERLY SEALED AND FLASHED TO PREVENT LEAKS.
16. A PRE-ROOFING CONFERENCE SHALL BE HELD PRIOR TO ROOFING WORK TO REVIEW MATERIALS, INSTALLATION PROCEDURES, AND COORDINATION WITH OTHER TRADES.
17. FIRE-RESISTANCE-RATED ASSEMBLIES MUST BE INSTALLED PER UL LISTINGS AND MANUFACTURER REQUIREMENTS.
18. FIRE-STOPPING AND FIRE-RATED PENETRATIONS SHALL BE INSPECTED AND TESTED PER CODE BEFORE CONCEALMENT.
19. A KEYING MEETING MUST BE HELD FOR KEYING COORDINATION BEFORE ORDERING AND INSTALLATION OF DOOR HARDWARE.
20. 4X7 FULL-WALL MOCKUPS SHALL BE PROVIDED FOR EACH WALL TYPE, SHOWING FINISH WALL MATERIAL CHANGES AND FLASHING INSTALLATION AT EXTERIOR WINDOWS AND DOORS.
21. ALL MOCKUPS MUST BE COMPLETED AND APPROVED PRIOR TO ORDERING MATERIALS.
22. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES TO AVOID CONFLICTS BETWEEN ARCHITECTURAL AND MEP COMPONENTS.
23. MEP SYSTEM INSTALLATION MUST BE COORDINATED WITH ARCHITECTURAL FEATURES TO PREVENT CONFLICTS BEFORE CONSTRUCTION BEGINS.
24. THE INSTALLATION OF THE SPRINKLER SYSTEM WILL NOT BE CONSIDERED A VALID REASON TO LOWER CEILING HEIGHTS. THE GENERAL CONTRACTOR SHALL IDENTIFY CONFLICTS BEFORE INSTALLATION SO THAT THE DESIGN TEAM CAN PROVIDE ADJUSTMENTS TO ALLEVIATE CONFLICTS.
25. THE CONTRACTOR SHALL COORDINATE ALL FINAL INSPECTIONS, APPROVALS, AND OCCUPANCY CERTIFICATES WITH THE AUTHORITIES HAVING JURISDICTION (AHJ).
26. PUNCH LISTS SHALL BE GENERATED AT SUBSTANTIAL COMPLETION AND FINAL WALKTHROUGHS TO ENSURE WORK IS COMPLETED TO SPECIFICATION.
27. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS, WARRANTIES, OPERATION MANUALS, AND MAINTENANCE DOCUMENTATION TO THE OWNER AT PROJECT CLOSEOUT.
28. THE CONTRACTOR SHALL PROVIDE TRAINING FOR THE OWNER'S REPRESENTATIVES ON INSTALLED SYSTEMS, EQUIPMENT OPERATION, AND MAINTENANCE PROCEDURES.
29. SHOP DRAWING REVIEW BY THE DESIGN TEAM IS A COURTESY REVIEW AND DOES NOT TRANSFER RESPONSIBILITY FOR ACCURACY OR COMPLIANCE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SHOP DRAWINGS MEET THE DESIGN INTENT PRIOR TO SUBMISSION. OMISSION OF ERRORS OR DISCREPANCIES IN THE SHOP DRAWING REVIEW DOES NOT PLACE LIABILITY ON THE DESIGN TEAM.



NOTE: 3D AXONOMETRIC VIEW SHOWN FOR GENERAL DESIGN AND REFERENCE ONLY. THIS IS NOT A SUBSTITUTION FOR CONSTRUCTION DOCUMENTS OR SHOP DRAWINGS.

Drawing Index	
Sheet Number	Sheet Name
1 - GENERAL	
G1.01	COVER SHEET
G1.02	GENERAL INFORMATION
SP1.01	SITE PLAN
LS1.01	OVERALL LIFE SAFETY PLAN
LS1.02	LIFE SAFETY PLAN
LS1.03	PARTITION TYPES
D1.01	DEMOLITION PLAN
3 - STRUCTURAL	
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S2.01	TEMPORARY SHORING PLAN
S2.02	FRAMING PLAN- OFFICE & ENTRANCE CANOPY
S3.01	FOUNDATION & FRAMING PLAN - DROP OFF CANOPY
S4.01	GENERAL NOTES & TYPICAL DETAILS
S4.02	TYPICAL DETAILS
4 - ARCHITECTURAL	
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A1.01	FLOOR PLAN
A1.02	BUS CANOPY FLOOR PLAN
A1.03	ROOF PLAN
A2.01	ROOM FINISH SCHEDULE
A3.01	EXTERIOR ELEVATIONS
A4.01	BUILDING SECTIONS
A5.01	ENLARGED DETAILS
A5.02	SECTIONS AND DETAILS
A6.01	INTERIOR ELEVATIONS
A6.02	INTERIOR ELEVATIONS
A6.03	MILLWORK DETAILS
A7.01	REFLECTED CEILING PLAN
A7.02	DROP OFF CANOPY REFLECTED CEILING PLAN
A8.01	FLOOR PATTERN PLAN
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MD1.01	1ST FLOOR PLAN - HVAC DEMOLITION
M1.01	1ST FLOOR PLAN - HVAC
M2.01	MECHANICAL SCHEDULES & DETAILS
M2.02	MECHANICAL SCHEDULES & DETAILS
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ED1.01	1ST FLOOR PLAN - ELECTRICAL DEMOLITION
E1.01	1ST FLOOR PLAN - POWER
E1.02	1ST FLOOR PLAN - LIGHTING
E1.03	CANOPY FLOOR PLAN - LIGHTING
E2.01	ELECTRICAL SCHEDULES & DETAILS
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8 - PLUMBING	
PD1.01	FLOOR PLAN - PLUMBING DEMOLITION
P1.01	FLOOR PLAN - SANITARY WASTE & VENT
P1.02	FLOOR PLAN - DOMESTIC WATER
P2.01	PLUMBING SCHEDULES & DETAILS
P2.02	PLUMBING SCHEDULES & DETAILS
P2.03	PLUMBING SCHEDULES & DETAILS
Grand total: 45	

LOUISIANA
one Call

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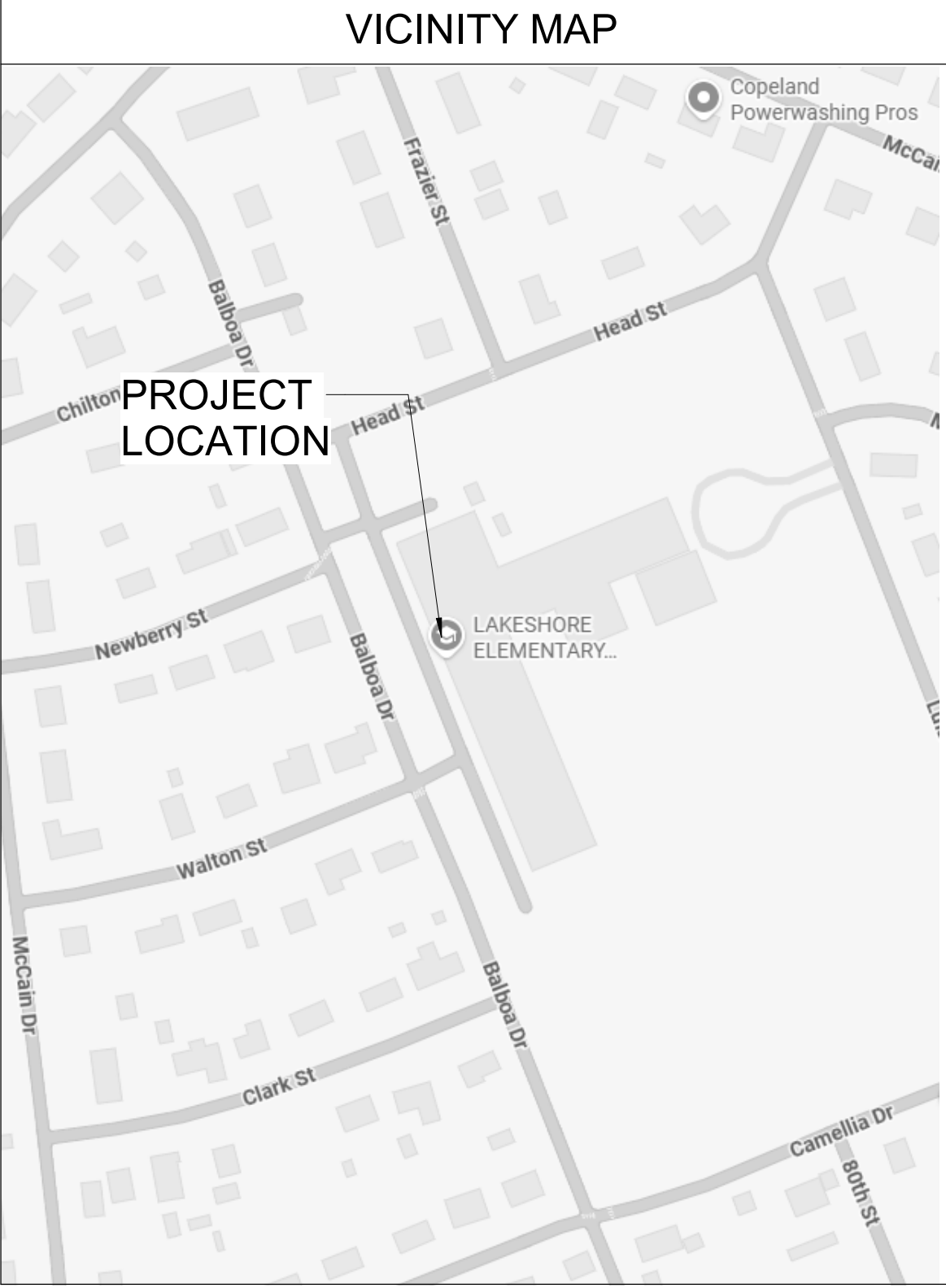
ALL CONTRACTORS AND SUBCONTRACTORS ARE TO REVIEW THE ENTIRE SET OF DRAWINGS AND ALL ISSUED ADDENDUM ITEMS PRIOR TO SUBMITTING BIDS OR PROCEEDING WITH CONSTRUCTION.

CODES & DESIGN SPECIFICATIONS

THE FOLLOWING CODES SHALL/WILL BE UTILIZED BY THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS TO COMPLETE THE REQUIRED CONSTRUCTION. THE FOLLOWING CODES INCLUDE THE MINIMUM CODE, DESIGN, & APPLICATION REQUIREMENTS THAT SHALL BE ADHERED TO DURING THE CONSTRUCTION PROCESS. MANUFACTURER SPECIFICATIONS & LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATIONS, SHALL CONTROL. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW & SUBMIT ALL SHOP DRAWINGS & REPORT ALL DOCUMENT DISCREPANCIES TO THE ARCHITECT PRIOR TO FABRICATION OR ERECTION.

1. BUILDING CODE(S): "LIFE SAFETY CODE" BY THE NATIONAL FIRE PROTECTION ASSOCIATION, 2021 EDITION. "INTERNATIONAL BUILDING CODE" BY THE INTERNATIONAL CODE COUNCIL, 2021 EDITION WITH LOUISIANA AMENDMENTS.
2. STRUCTURAL STEEL: "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-16)" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
3. STRUCTURAL CONCRETE: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)" BY THE AMERICAN CONCRETE INSTITUTE.
4. COLD-FORMED STEEL: "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI-S100-16(2020) w/ S2-20)" BY THE AMERICAN IRON AND STEEL INSTITUTE.
5. CONCRETE MASONRY: "BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 402/16) BY THE MASONRY STANDARDS JOINT COMMITTEE, LATEST EDITION.
6. MECHANICAL: "INTERNATIONAL MECHANICAL CODE" BY THE INTERNATIONAL CODE COUNCIL, 2021 EDITION.
7. TIMBER: ANSI / AWC NDS-18 NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.
8. ELECTRICAL: "NATIONAL ELECTRICAL CODE" BY THE NATIONAL FIRE PROTECTION ASSOCIATION, 2020 EDITION WITH LOUISIANA AMENDMENTS.
9. PLUMBING: "INTERNATIONAL PLUMBING CODE" BY THE INTERNATIONAL CODE CONCIL, 2021 EDITION WITH LOUISIANA AMENDMENTS.
10. ADA: "AMERICANS WITH DISABILITIES ACT" 2010. ADA STANDARDS FOR ACCESSIBLE DESIGN.

SYMBOLS	DESCRIPTION
SYMBOL	SECTION KEY
	SECTION NUMBER
	SHEET NUMBER
	ROOM NUMBER
	ROOM NAME
	DETAIL NUMBER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER
	ELEVATION HEIGHT KEY

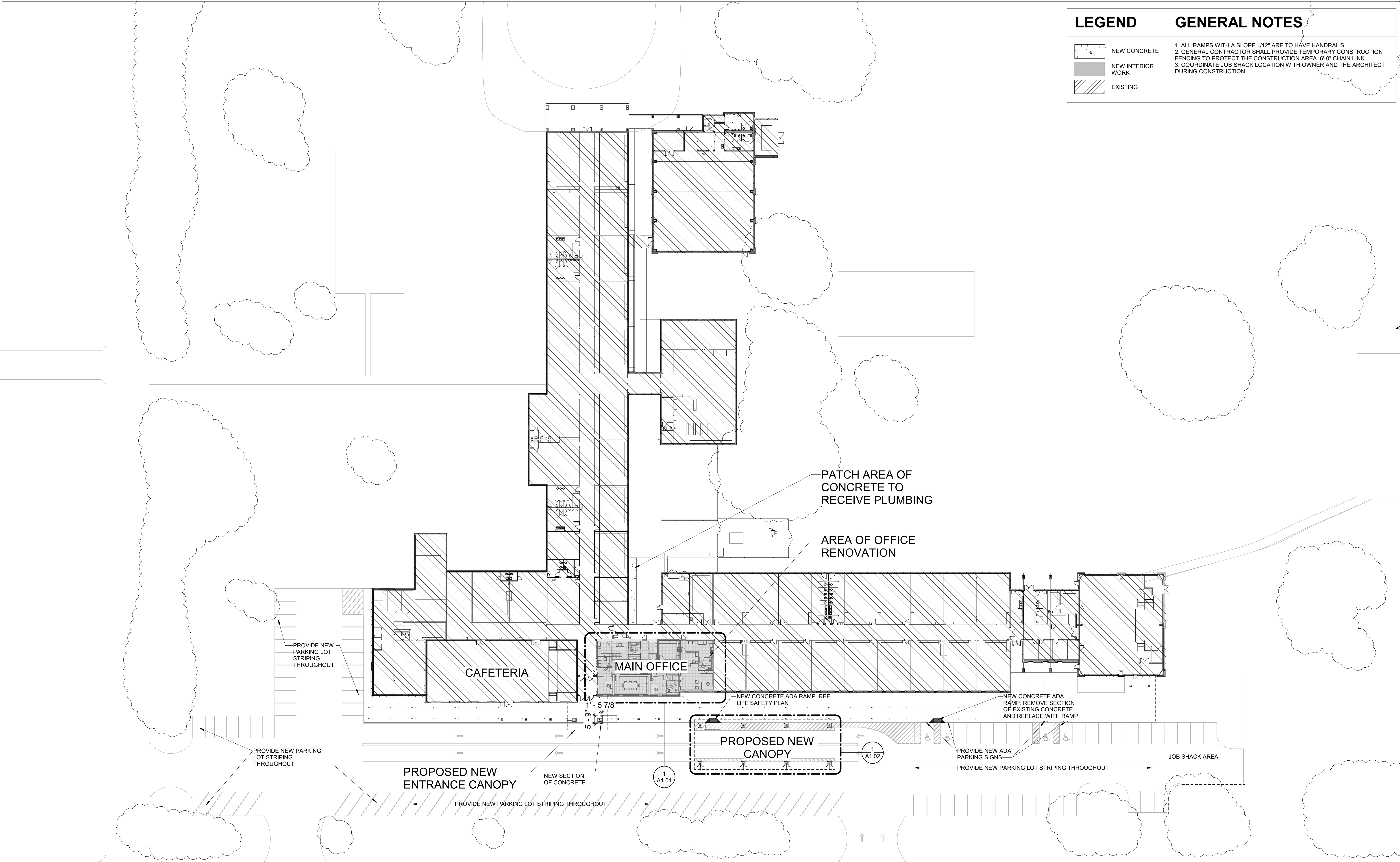


Lakeshore Elementary School Office
Renovation and Canopy Repair

550 Balboa Dr, Monroe, LA 71203

DRAWING REVISIONS		
No.	Description	Date

DRAWN BY:	CJ, GS
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SHEET	
G1.02	
Date:	2025
Project No.:	25-WM0039
File Name:	
DESCRIPTION:	
GENERAL INFORMATION	



LEGEND

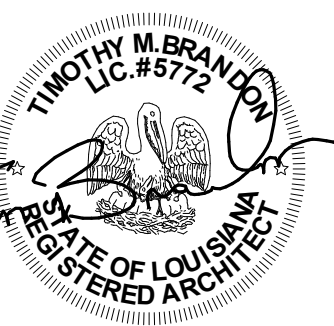
- NEW CONCRETE
- NEW INTERIOR WORK
- EXISTING

GENERAL NOTES

1. ALL RAMPS WITH A SLOPE 1/12" ARE TO HAVE HANDRAILS.
2. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING TO PROTECT THE CONSTRUCTION AREA. 6'-0" CHAIN LINK
3. COORDINATE JOB SHACK LOCATION WITH OWNER AND THE ARCHITECT DURING CONSTRUCTION.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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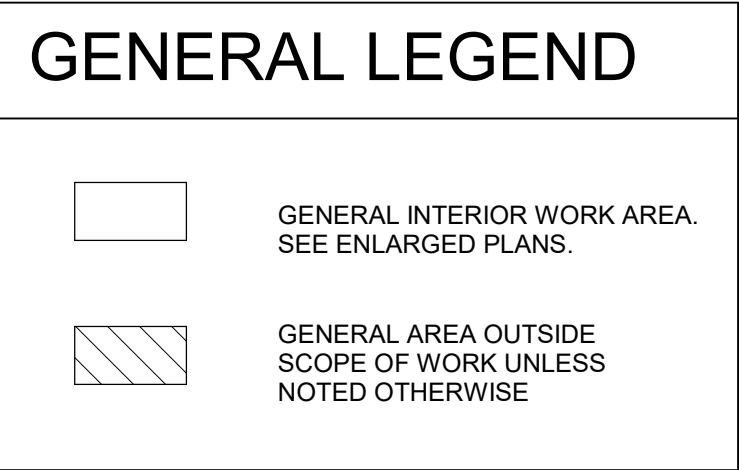
Project No.: 25-WM0039

File Name:

DESCRIPTION:

SITE PLAN

1 SITE PLAN
1" = 30'-0" | RE:2/A1.02



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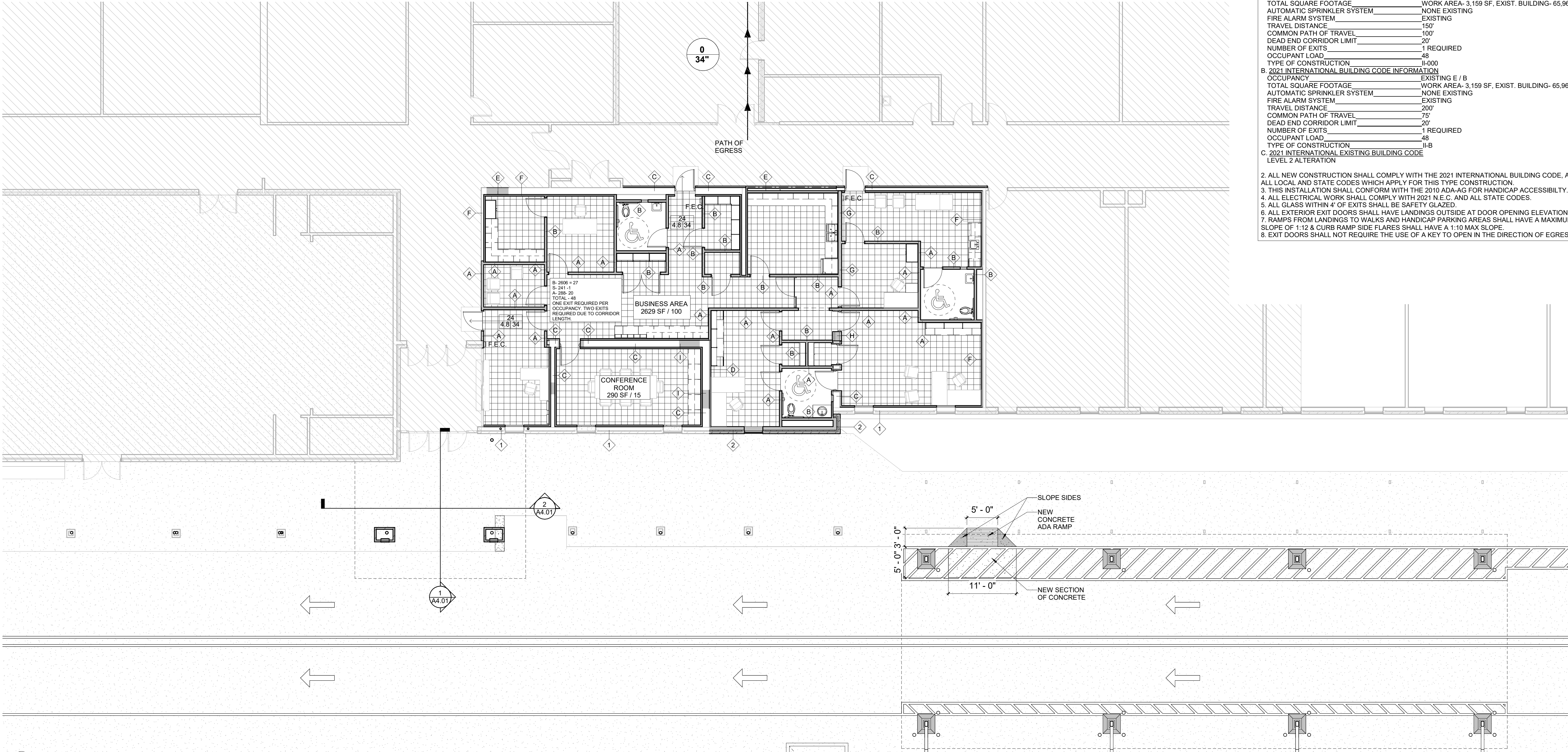
OVERALL LIFE
SAFETY PLAN

1 OVERALL LIFE SAFETY
1" = 20'-0" | RE:2/A1.02

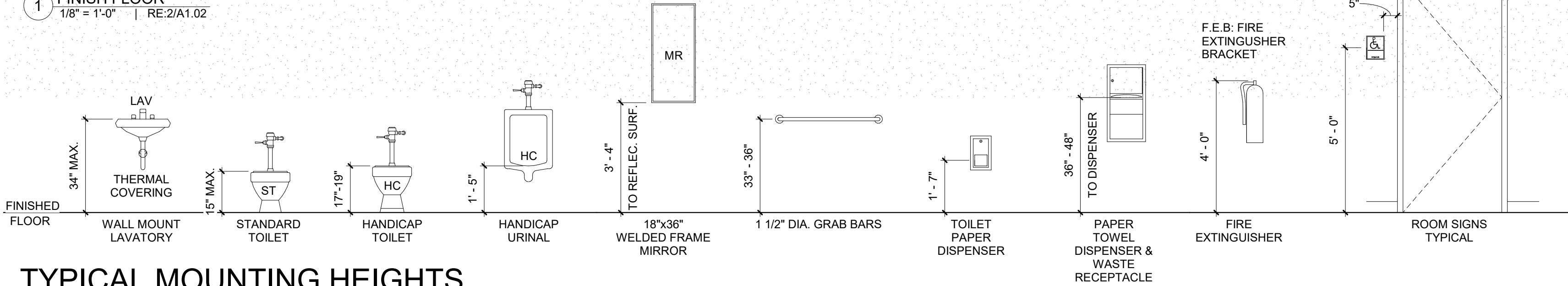
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Building Occupant Load Calculation per IBC Section 1004					
Name	Function of Area	Area	Area Per Occupant	Area Type	Occupant Load
Not Placed BUSINESS AREA	Business Areas	2629	100	GROSS	27
CONFERENCE ROOM	Assembly Unconcentrated	290	15	NET	20
STORAGE	Accessory Storage Areas, Mechanical Equipment Rooms	241	300	GROSS	1
Total Building Area					

LEGEND	GENERAL NOTES
<div><div>-----</div><div>F.E.C.</div><div><div></div></div><div><div></div></div></div> <div><div>1 HOUR RATED WALL</div><div>FIRE EXTINGUISHER IN CABINET</div><div>NEW WALLS</div><div>EXISTING WALLS</div></div>	<div>1. REFER TO ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISHES NOT SHOWN ON THE LS SHEETS.</div> <div>2. REFER TO BUILDING SECTIONS SHEETS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS NOT SHOWN ON THE LS SHEETS.</div> <div>3. REFER TO STRUCTURAL SHEETS FOR WALLS/PARTITIONS REQUIRING HEAVIER GUAGE STUDS AND/OR CLOSER STUD SPACING THAN INDICATED ON THE LS SHEETS.</div> <div>4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS, WHICH CONFLICT WITH THE PROPER INSTALLATION OF SMOKE PARTITIONS, FIRE WALLS AND FIRE BARRIERS. SUCH NOTIFICATION SHALL BE PROVIDED, PRIOR TO INSTALLATION AND WORK ON THE AFFECTED WALLS/PARTITIONS SHALL BE SUSPENDED, UNTIL THE CONFLICT HAS BEEN RESOLVED. ANY ADDITIONAL WORK REQUIRED, AS A RESULT OF THE CONTRACTOR FAILING TO PROVIDE SAID NOTIFICATION SHALL BE PERFORMED, AT THE ONTRACTORS EXPENSE, WITHOUT CHANGE ORDER.</div>
PARTITION TYPE LEGEND	DESIGN NOTES
<div><div><div>A</div></div><div>WALL TYPE</div></div>	<div>1. 1ST FLOOR:</div> <div>A. LIFE SAFETY CODE 2015 INFORMATION</div> <div>OCUPANCYEXISTING EDUCATION/BUSINESS</div> <div>TOTAL SQUARE FOOTAGEWORK AREA- 3,159 SF, EXIST. BUILDING- 65,963 SF</div> <div>AUTOMATIC SPRINKLER SYSTEMNONE EXISTING</div> <div>FIRE ALARM SYSTEMEXISTING</div> <div>TRAVEL DISTANCE150'</div> <div>COMMON PATH OF TRAVEL100'</div> <div>DEAD END CORRIDOR LIMIT20'</div> <div>NUMBER OF EXITS1 REQUIRED</div> <div>OCCUPANT LOAD48</div> <div>TYPE OF CONSTRUCTIONII-000</div> <div>B. 2021 INTERNATIONAL BUILDING CODE INFORMATION</div> <div>OCUPANCYEXISTING E / B</div> <div>TOTAL SQUARE FOOTAGEWORK AREA- 3,159 SF, EXIST. BUILDING- 65,963 SF</div> <div>AUTOMATIC SPRINKLER SYSTEMNONE EXISTING</div> <div>FIRE ALARM SYSTEMEXISTING</div> <div>TRAVEL DISTANCE200'</div> <div>COMMON PATH OF TRAVEL75'</div> <div>DEAD END CORRIDOR LIMIT20'</div> <div>NUMBER OF EXITS1 REQUIRED</div> <div>OCCUPANT LOAD48</div> <div>TYPE OF CONSTRUCTIONII-B</div> <div>C. 2021 INTERNATIONAL EXISTING BUILDING CODE</div> <div>LEVEL 2 ALTERATION</div> <div>2. ALL NEW CONSTRUCTION SHALL COMPLY WITH THE 2021 INTERNATIONAL BUILDING CODE, AND ALL LOCAL AND STATE CODES WHICH APPLY FOR THIS TYPE CONSTRUCTION.</div> <div>3. THIS INSTALLATION SHALL CONFORM WITH THE 2010 ADA-AG FOR HANDICAP ACCESSIBLITY.</div> <div>4. ALL ELECTRICAL WORK SHALL COMPLY WITH 2021 N.E.C. AND ALL STATE CODES.</div> <div>5. ALL GLASS WITHIN 4' OF EXITS SHALL BE SAFETY GLAZED</div> <div>6. ALL EXTERIOR EXIT DOORS SHALL HAVE LANDINGS OUTSIDE AT DOOR OPENING ELEVATION.</div> <div>7. RAMPS FROM LANDINGS TO WALKS AND HANDICAP PARKING AREAS SHALL HAVE A MAXIMUM SLOPE OF 1:12 & CURB RAMP SIDE FLARES SHALL HAVE A 1:10 MAX SLOPE.</div> <div>8. EXIT DOORS SHALL NOT REQUIRE THE USE OF A KEY TO OPEN IN THE DIRECTION OF EGRESS.</div>



1 FINISH FLOOR
1/8" = 1'-0" | RE:2/A1.02



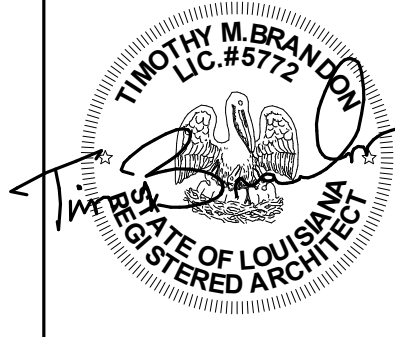
TYPICAL MOUNTING HEIGHTS

SCALE: 3/8" = 1'-0"

NOTE: PROVIDE 2x BLOCKING FOR ALL TOILET ACCESSORIES

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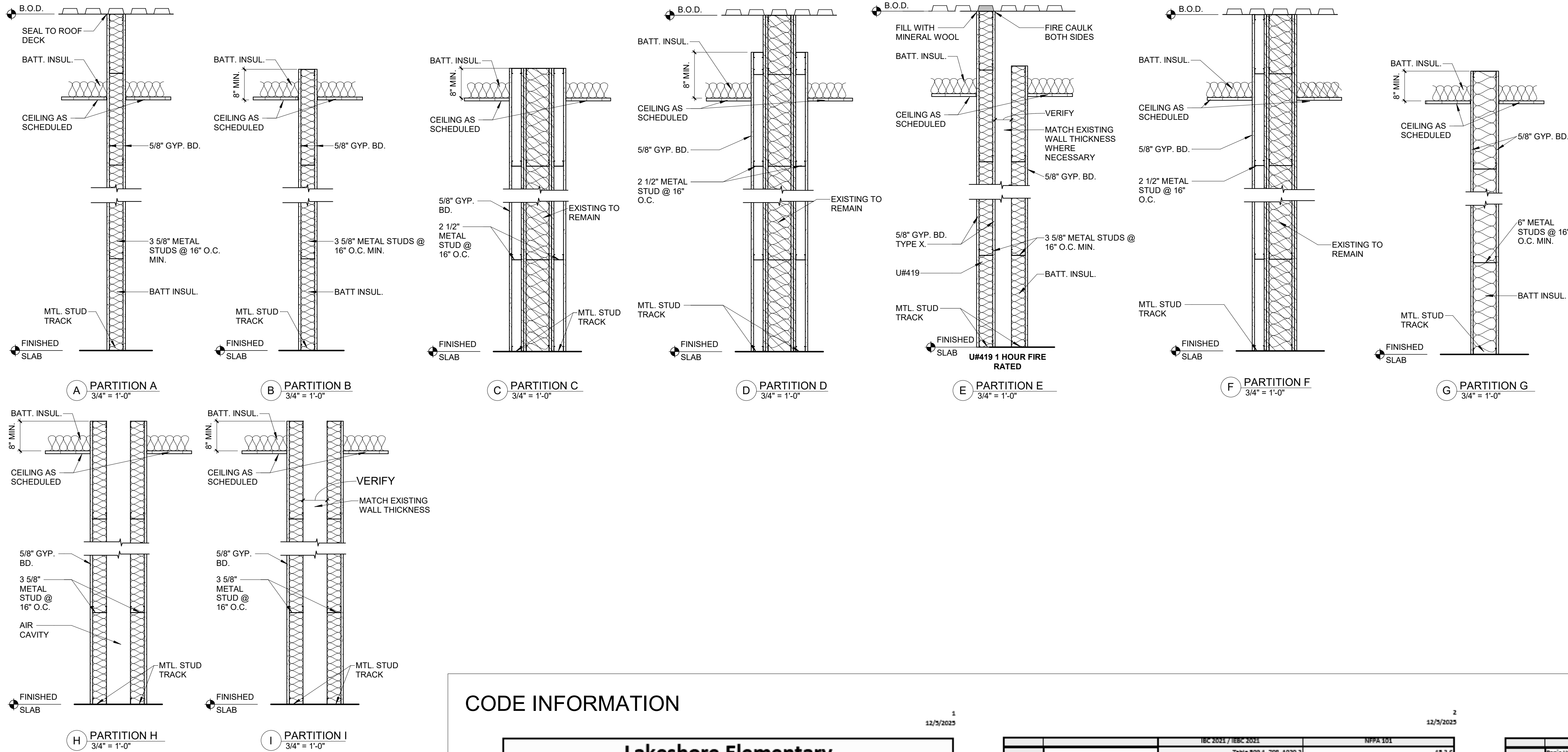
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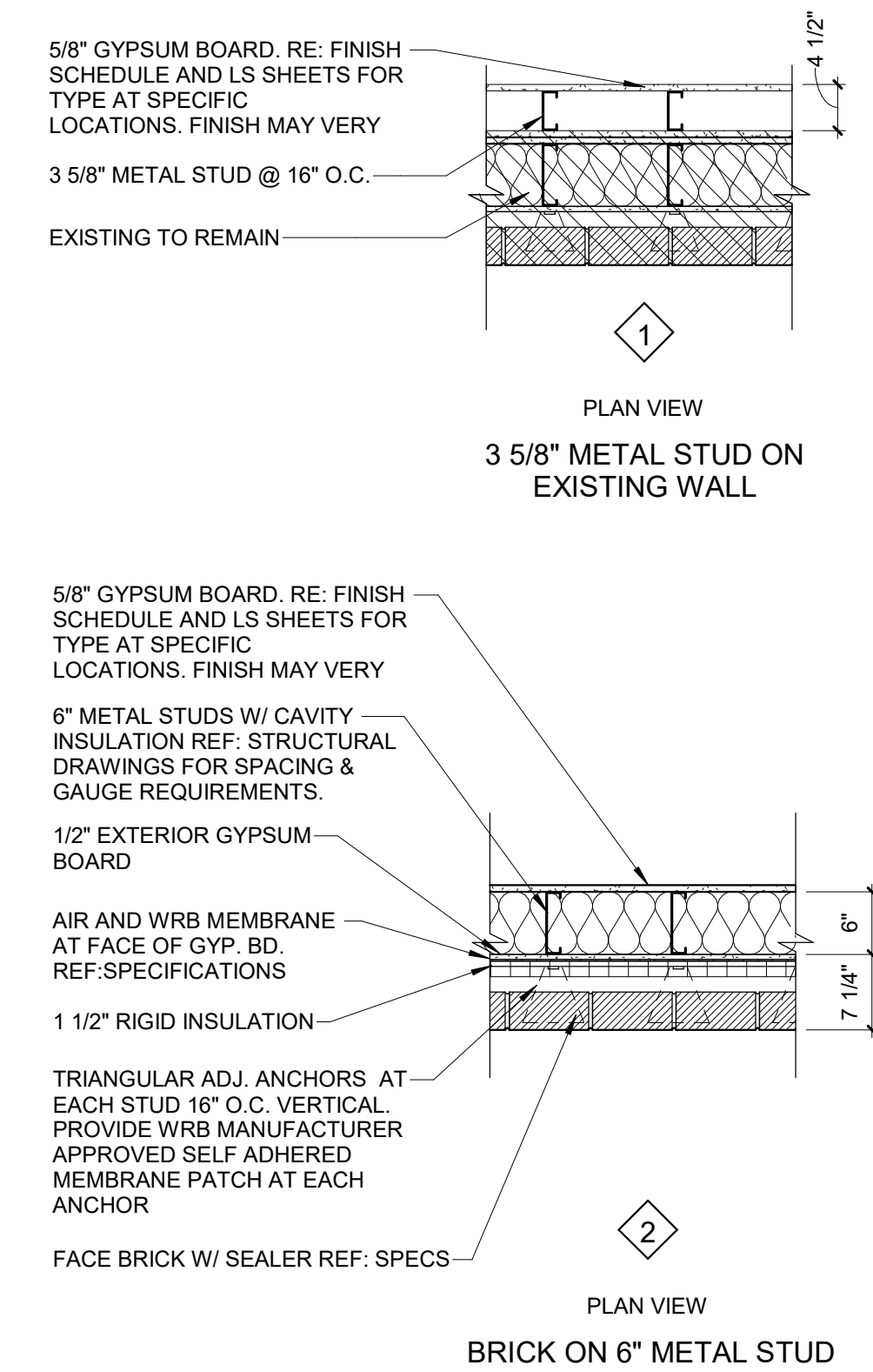
LIFE SAFETY PLAN



PARTITION TYPE GENERAL NOTES:

- WHERE STRUCTURAL SPECIFICATIONS OR DRAWINGS INDICATES HEAVIER GA. STUDS AND/OR CLOSER SPACING, STRUCTURAL SHALL GOVERN.
- REFER ROOM FINISH SCHEDULE & ALL OTHER DRAWINGS FOR FINISHES, WHICH MAY NOT BE INDICATED ON THE PARTITION TYPE DETAILS.
- ALL GYP. BD. IN RESTROOM, TOILET ROOMS & JANITOR CLOSETS SHALL BE WATER-RESISTANT GYP. BD. TO 48" A.F.F. PROVIDE MOISTURE RESISTANT FULL HEIGHT IN LAUNDRY ROOMS.
- ALL GYP. BD. IN SHOWER ROOMS SHALL BE WATER-RESISTANT GYP. BD. TO FULL HEIGHT OF WALL.
- PARTITIONS SHALL EXTEND ABOVE CEILING TO HEIGHT INDICATED OR TO BOTTOM OF FLOOR/ROOF DECK, WHICHEVER COMES FIRST.
- ALL PENETRATIONS IN FIRE RATED WALLS SHALL BE PROPERLY FIRE CAULKED AND FIRE-STOPPED AS REQ'D BY CODE.
- ALL PENETRATIONS IN SMOKE PARTITIONS SHALL BE PROPERLY CAULKED/SEALED AS REQ'D BY CODE.

EXTERIOR WALL ASSEMBLY DETAILS



CODE INFORMATION

Lakeshore Elementary
550 Balboa Drive, Monroe, LA
Building Code: Louisiana State Uniform Construction Code/2021 IBC, 2021 IBC, 2015 NFPA 101

	IBC 2021 / IBC 2021	NFPA 101
Use and Occupancy	E	Education
Minimum Construction Type	II-B, Level 2 Alteration	II-000
General Building Heights and Areas	Section 5	
Allowable Building Height - Non-Sprinklered	35'	
Actual Building Height	Existing	
Allowable Stories above Grade - Non-Sprinklered	2	
Actual Stories above Grade	1	
Allowable Building Area - Non-Sprinklered	14,500sf	
Actual Building Area	65,963sf	
Separation	Non-required	Non-required
	308	
Types of Construction	Section 6	
Fire Resistance Rating	Table 605	NFPA 220 Table 4.1.1
Primary Structural Frame	0	0
Bearing walls - exterior	0	0
Bearing walls - interior	0	0
Interior Nonbearing walls and partitions	0	0
Floor construction and associated secondary members	0	0
Roof construction and associated secondary members	0	0
Fire and Smoke Protection Features	Section 7	
Fire Resistance Rating for Exterior Walls	Table 703.5	NFPA 3000 Table 7.3.2.1
Fire Separation Distance = X		
X < 5'	1	1
5' ≤ X < 10'	2	2
10' ≤ X < 30'	0	0
X ≥ 30'	0	0
Fire barriers	not required	not required
Fire partitions	not required	1/2hr rated corridors

	IBC 2021 / IBC 2021	NFPA 101
Smoke partition	Table 309.3, 708, 1020.2	15.3.4
Shaft enclosures	N/A	N/A
Interior Finishes	Section 8	
Interior Finishes	Table 803.13	14.3.3.2
Interior exit stairways and ramps and exit passageways	A	A
Corridors and enclosure for exit access stairways and ramps	B	B
Rooms and enclosed spaces	C	C
Fire Protection Systems	Section 9	
Automatic Sprinkler System	none existing	none existing
Standpipes	903.2.3, IBC 903.2.2	15.3.2.2, 9.2.3
Portable Fire Extinguishers	905, IBC 903.3	910, NFPA 14
Fire Alarm System	required in work area	required
Emergency voice/alarm communication systems	907.2.3, IBC 903.4.1.1	15.3.4.1.1
Visible Alarms	907.2.3, 907.2.2.2	14.3.4.3.1.2, 9.6.3
Fire Alarm Zones	every 22,500sf with a length not to exceed 300' or existing to remain	9.6.3.5
Smoke Compartments	every 22,500sf with a length not to exceed 300' or existing to remain	9.6.7.4
Fire Command Center	not required	15.3.7.1
Fire Pump Room	not required	NFPA 20
Means of Egress	Section 10	
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT	Table 1004.5	Table 7.3.3.2
Assembly - Tables and Chairs	150sf/person	150sf/person
Office	150sf/person	100sf/person
Kitchen	200sf/person	300sf/person
Storage/Mechanical	300sf/person	300sf/person
Stairs width per person	N/A	N/A
Other egress elements width per person	0.2	0.2
Max. Common path of egress travel	75'	100'
Minimum exits	2	2
Distance between exits	1/2 diagonal of area	1/2 diagonal of area
Doors	32"	32"
Minimum door height	68"	68"
Swing in direction of egress	when occupant load is greater than 30	when occupant load is greater than 30

	IBC 2021 / IBC 2021	NFPA 101
Panic Hardware	when occupant load is greater than 30	when occupant load is greater than 100
Handrails	N/A	N/A
Guardrails	N/A	N/A
Maximum Exit Travel Distance	200'	150'
Corridors	Table 1017.2	15.2.6.2
Minimum width	E - 72", B - 44", Occupant load less than 30 - 36"	B - 44", E - 72"
Rating	not required to be rated where each classroom has a door opening directly to the outside	not required to be rated where each classroom has a door opening directly to the outside
Dead Ends Maximum Length	20'	20'
Plumbing Systems	Section 29	
A3 Occupancy	Table 2902.1	
Water Closets		
Men	1	
Women	1	
Urinals	0	
Lavatories	1	
Men	1	
Women	1	
Drinking Fountains	2	
Service Sinks	1	

Plumbing Counts	Water Closets	Urinals	Lavatories	Drinking Fountains	Service Sinks
Occupants	Men/Women	Men/Women	Men/Women	Men/Women	Men/Women
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
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DRAWING REVISIONS

No.	Description	Date

DRAWN BY: CJ, GS

CHECKED BY: CW

SHEET

LS1.03

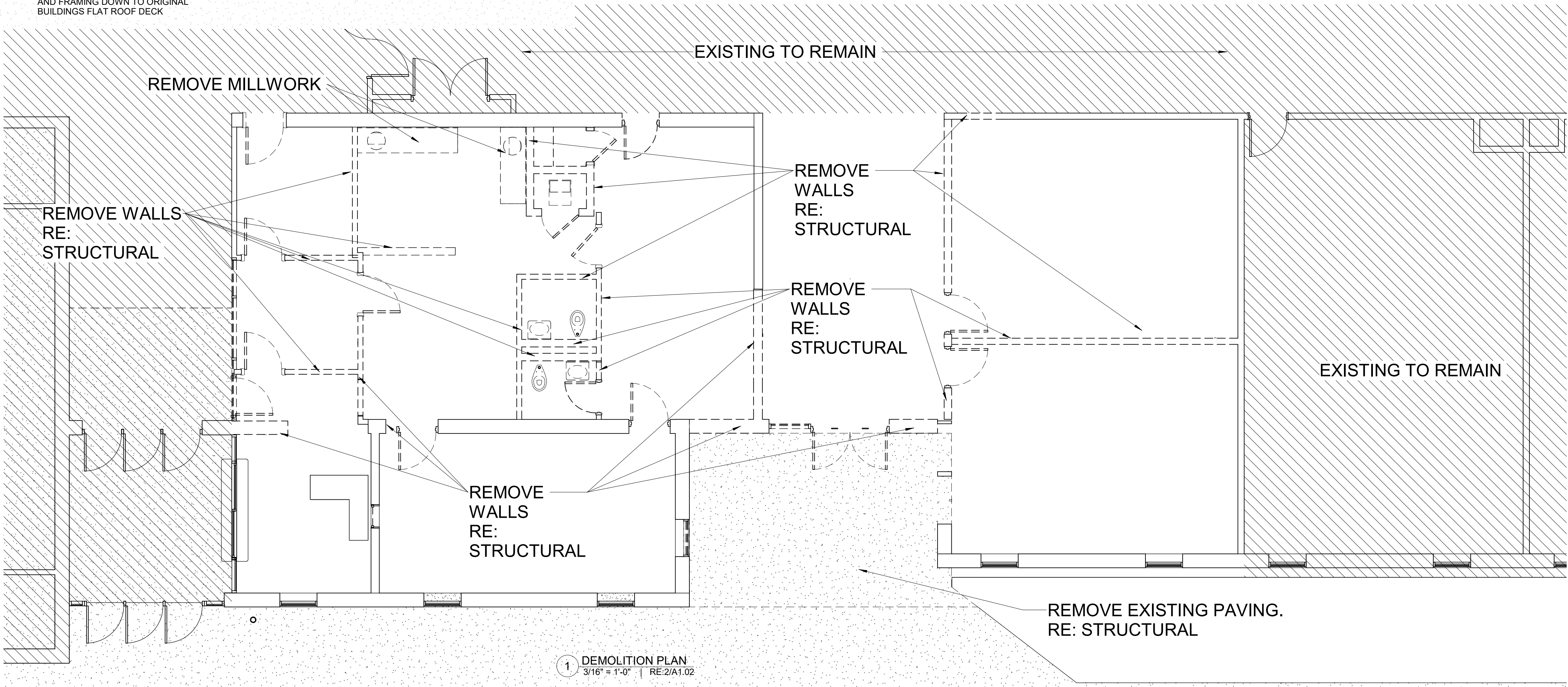
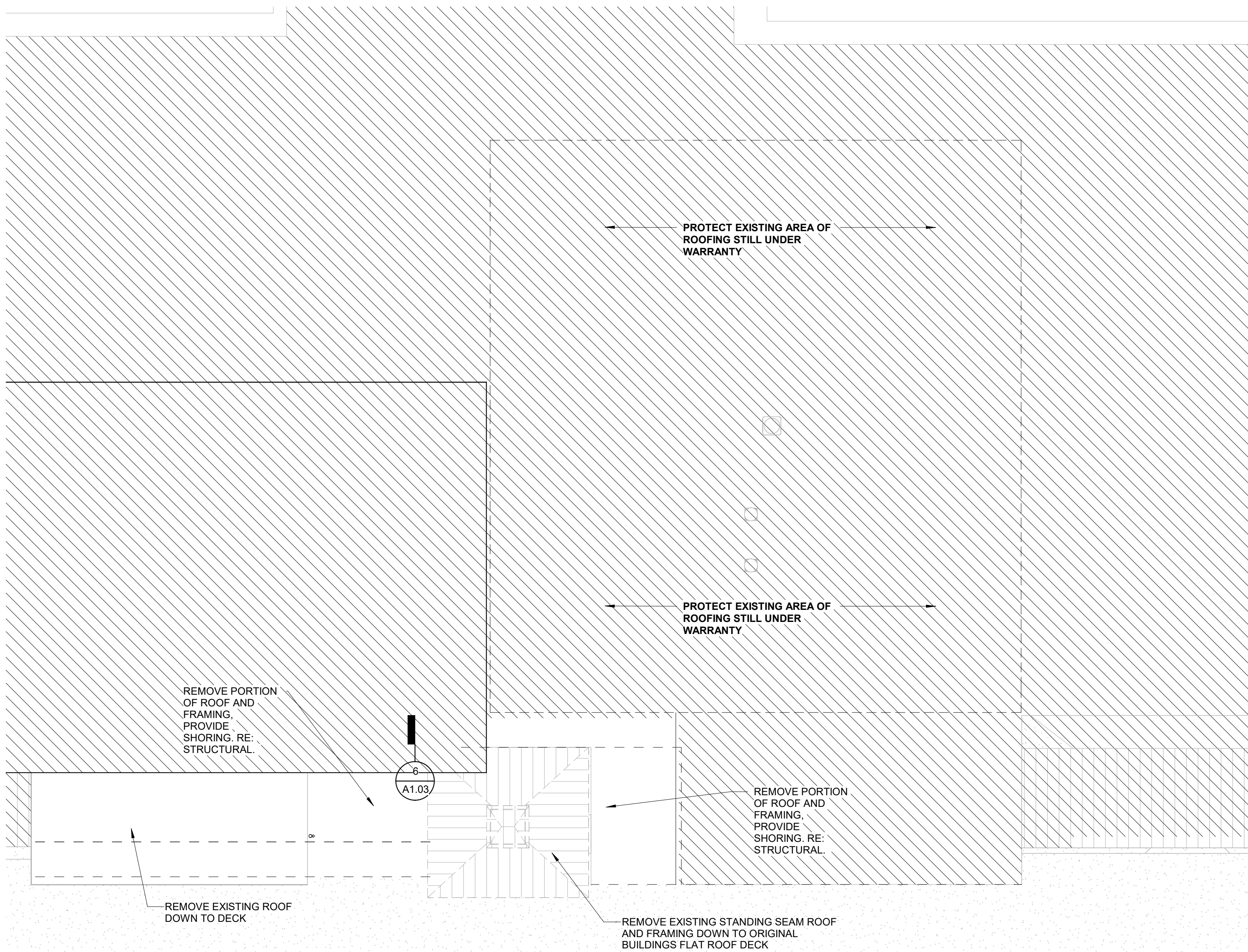
Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

PARTITION TYPES



GENERAL LEGEND

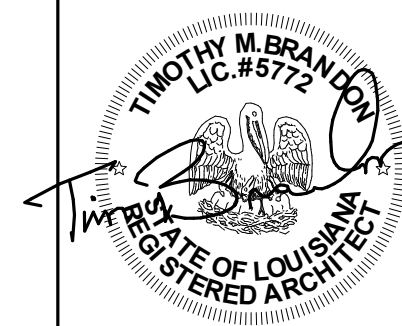
	INDICATES EXISTING WALL TO REMAIN
	INDICATES DEMO
	NO ARCHITECTURAL WORK

GENERAL NOTES

1. ALL GENERAL NOTES LISTED FOR DEMOLITION WORK APPLY TO AREA OF WORK ONLY. ALL AREAS NOT IN SCOPE OF WORK ARE EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION.
2. REMOVE ALL EXISTING CASEWORK AND MILLWORK IN ITS ENTIRETY.
3. REMOVE ALL EXISTING LIGHT FIXTURES IN THEIR ENTIRETY. REFERENCE ELECTRICAL DEMOLITION PLAN.
4. REMOVE ALL PLUMBING FIXTURES. REFERENCE PLUMBING DEMOLITION PLANS.
5. ALL EXISTING CEILING TILES AND GRIDS TO BE REMOVED IN THEIR ENTIRETY. TURN OVER ANY COMMUNICATION OR DATA DEVICES TO THE OWNER.
6. PREP ALL EXISTING TO REMAIN WALLS TO RECEIVE FURRING OF METAL STUDS AND GYPSUM BOARD. VERIFY GYPSUM TYPE TO BE INSTALLED WITH THE INTERIOR FINISH SCHEDULE AND NOTES. REFERENCE LIFE SAFETY SHEETS FOR WALL FURRING.
7. REMOVE EXISTING FLOORING AND BASE. PREP FOR NEW.
8. REMOVE ALL EXISTING TOILET ACCESSORIES. VERIFY TO EXISTING CONDITIONS ON-SITE.
9. REMOVE ALL DOORS, DOOR CASING AND DOOR HARDWARE WHERE DOORS ARE DASHED TO BE REMOVED.
10. REFERENCE STRUCTURAL FOR ANY ADDITIONAL REQUIREMENTS. SHORE EXISTING STRUCTURE AS REQUIRED.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

TBA



Lakeshore Elementary School Office
Renovation and Canopy Repair

550 Balboa Dr, Monroe, LA 71203

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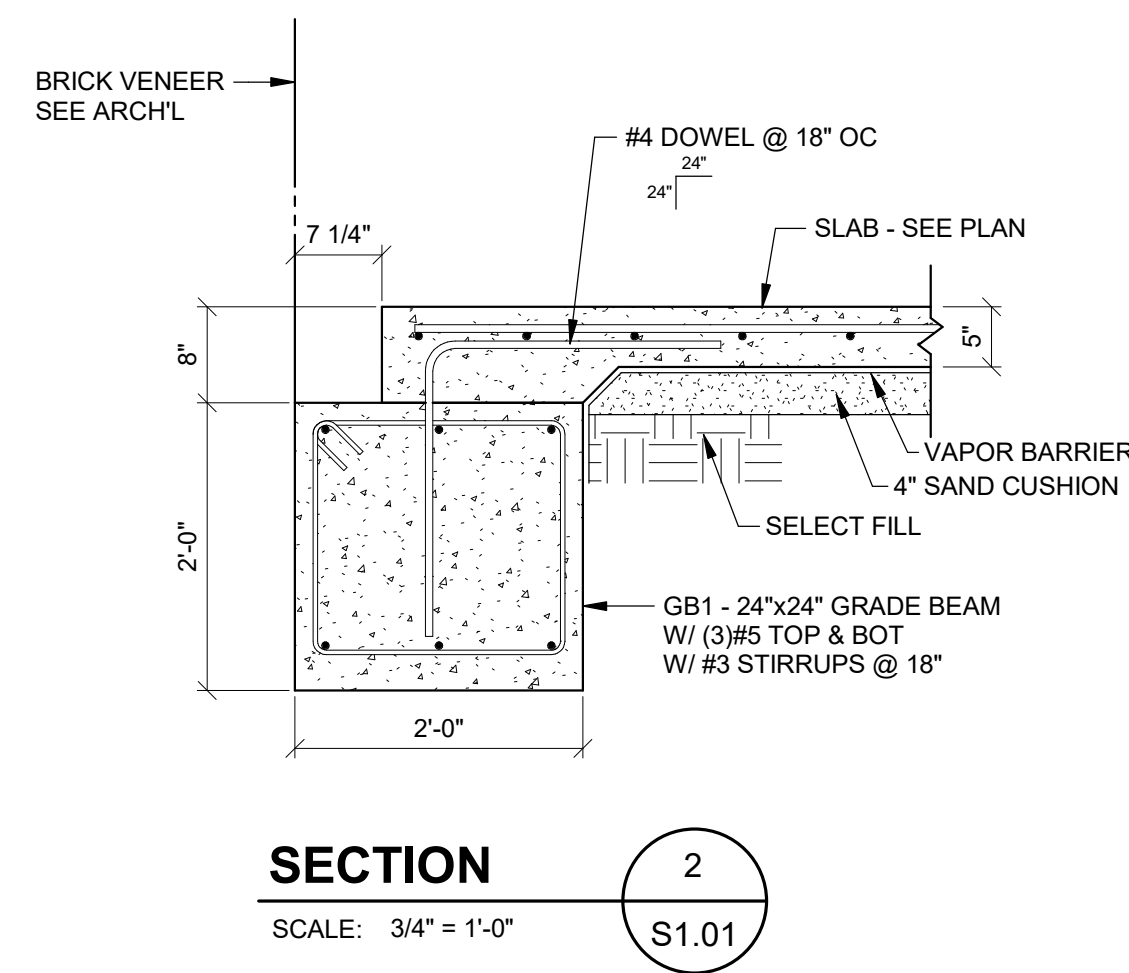
Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

DEMOLITION PLAN



NOTES:

GB1 - 24"x24" GRADE BEAM W/ (3)#5 TOP & BOT W/ #3 STIRRUPS @ 18"
TS - 12"x12" THICKENED SLAB W/ (2)#5

DRAWN BY: _____ PSF

CHECKED BY: _____ MJW

SHEET

S1.01

DESCRIPTION:

FOUNDATION & HI
ROOF PLAN - OFFICE
& ENTRANCE
CANOPY

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 711
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

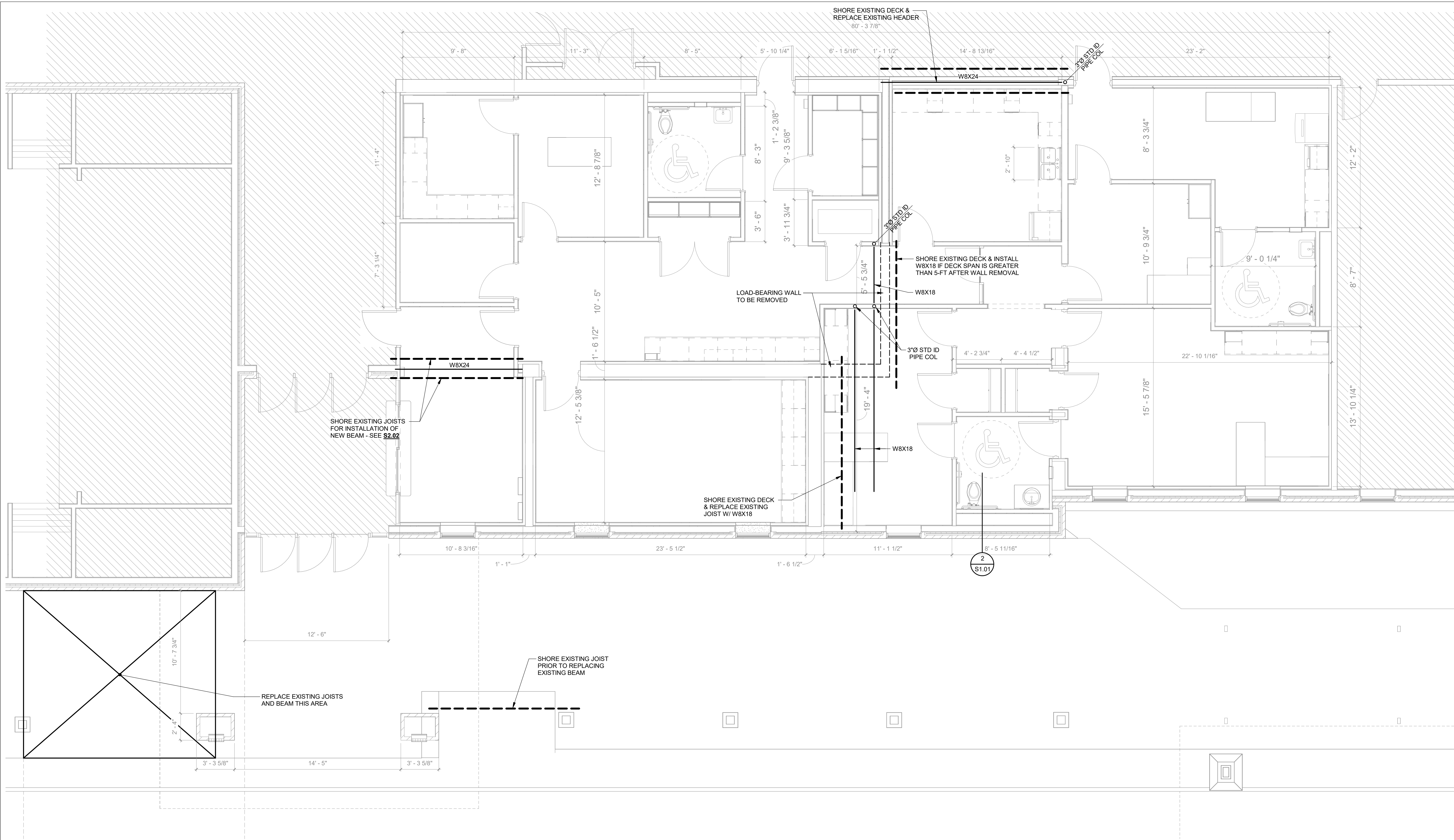
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Lakeshore Office Renovation and Canopy
Repair

550 Balboa Dr, Monroe, LA

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TEMPORARY SHORING PLAN

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

NOTE:
AFTER DEMOLITION OF CEILINGS ALERT SER IF DEMOLITION OF ANY EXISTING WALLS WILL RESULT IN UN-SUPPORTED JOISTS, DECK SPANS GREATER THAN 5-FT, OR UN-SUPPORTED DECK EDGES

STATE OF LOUISIANA
Matthew J. Wallace
License No. 25922
PROFESSIONAL ENGINEER
12/11/25
NATURAL ENGINEERING

CONSULTING ENGINEERS
3003 KNIGHT STREET, SUITE 120
SHREVEPORT, LOUISIANA 71105
phone: 318-425-7452 fax: 318-425-4622
www.AFJMc.com

ENGINEER: **MATTHEW J. WALLACE, P.E., S.E.**
LICENSE NO. 25922

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TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
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Lakeshore Office Renovation and Canopy Repair

550 Balboa Dr, Monroe, LA

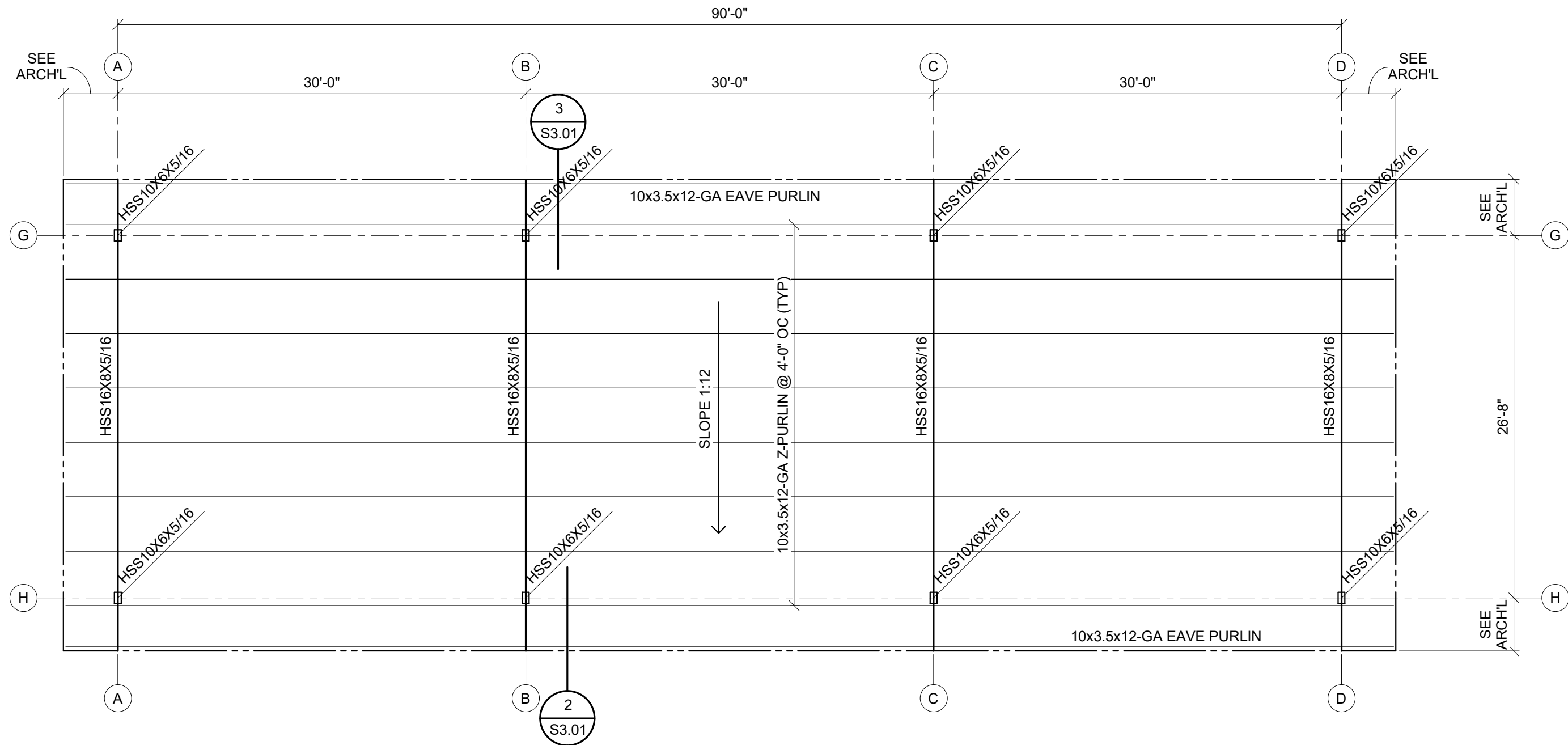
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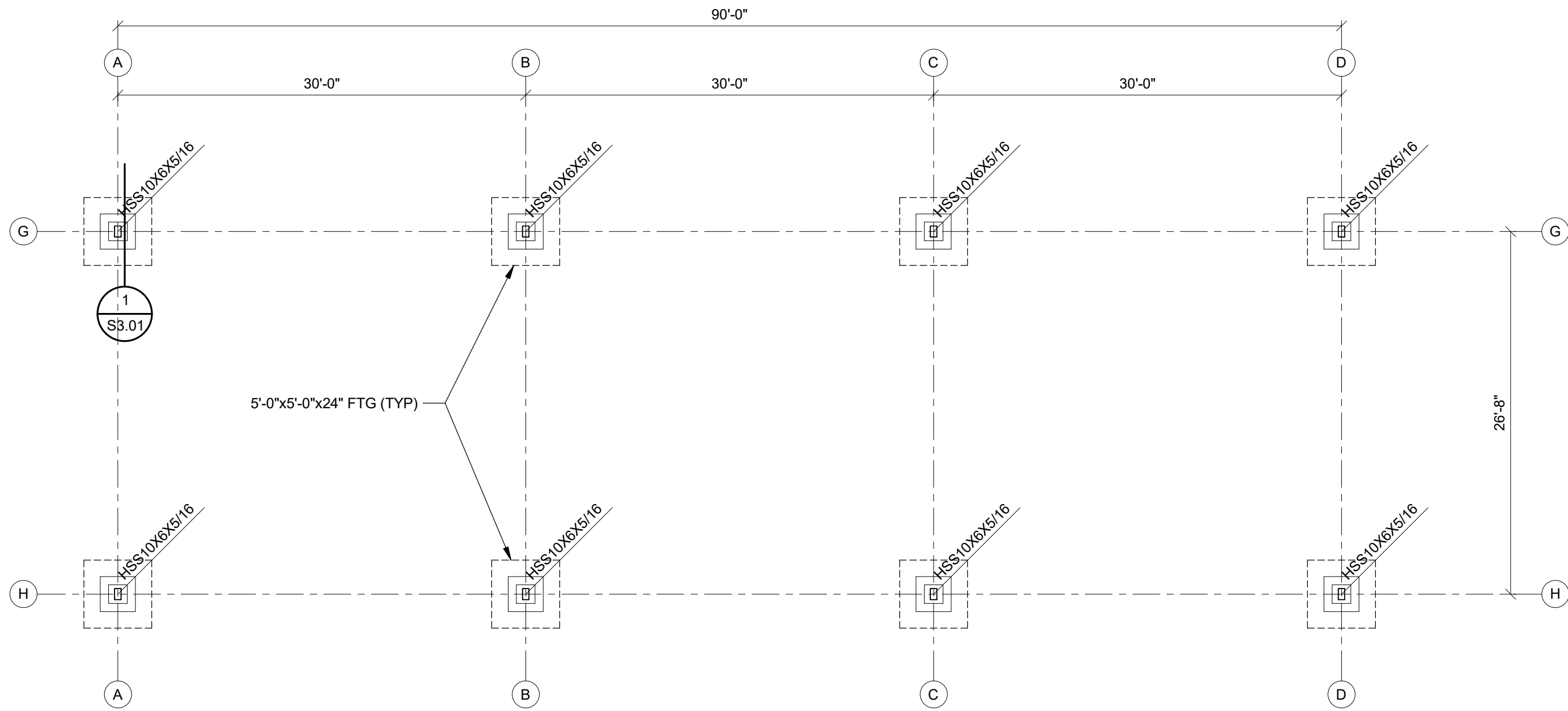
Date: DEC. 2025
Project No.: 25-WM0039
File Name:
DESCRIPTION: TEMPORARY SHORING PLAN





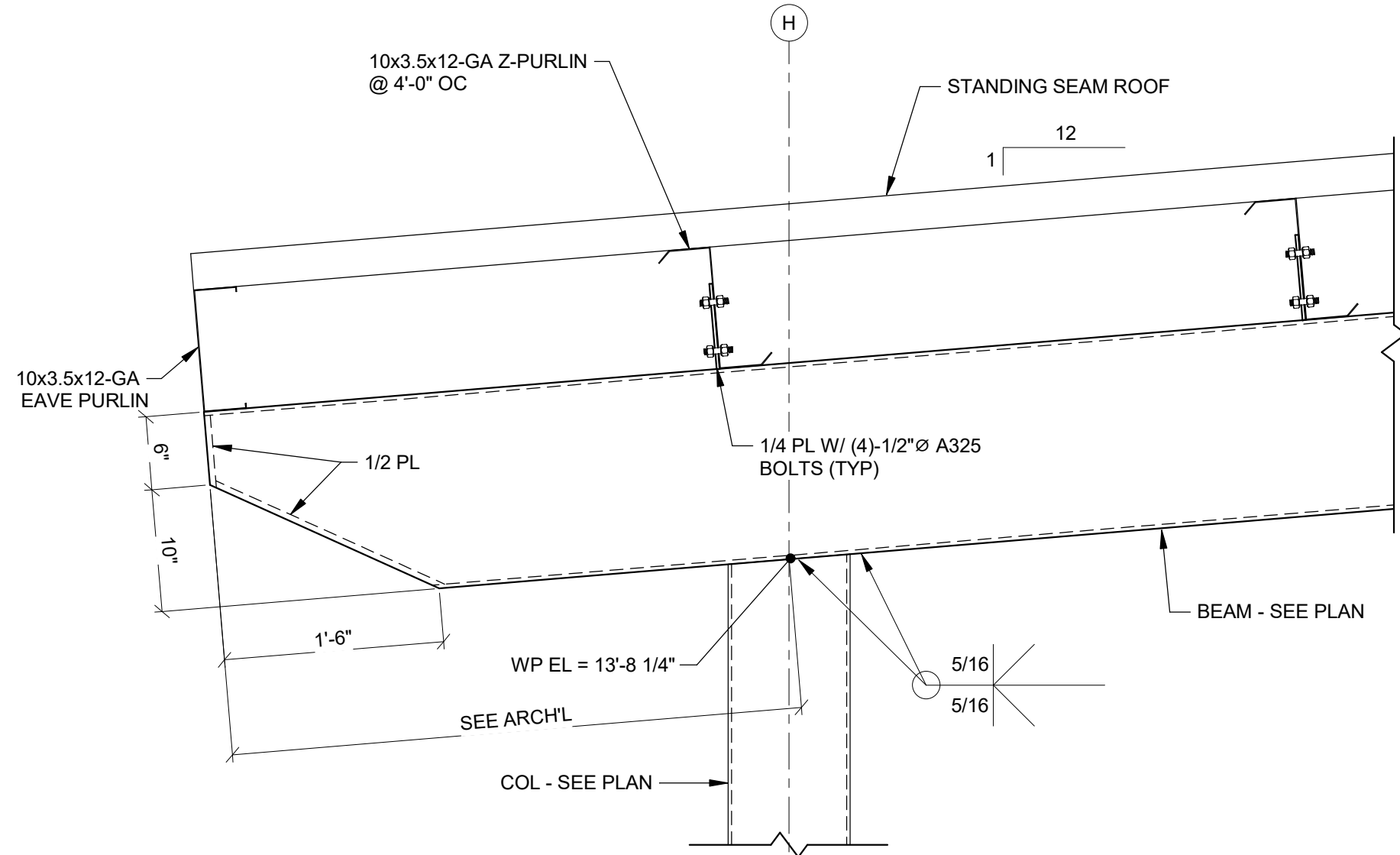
FRAMING PLAN - DROP OFF CANOPY

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



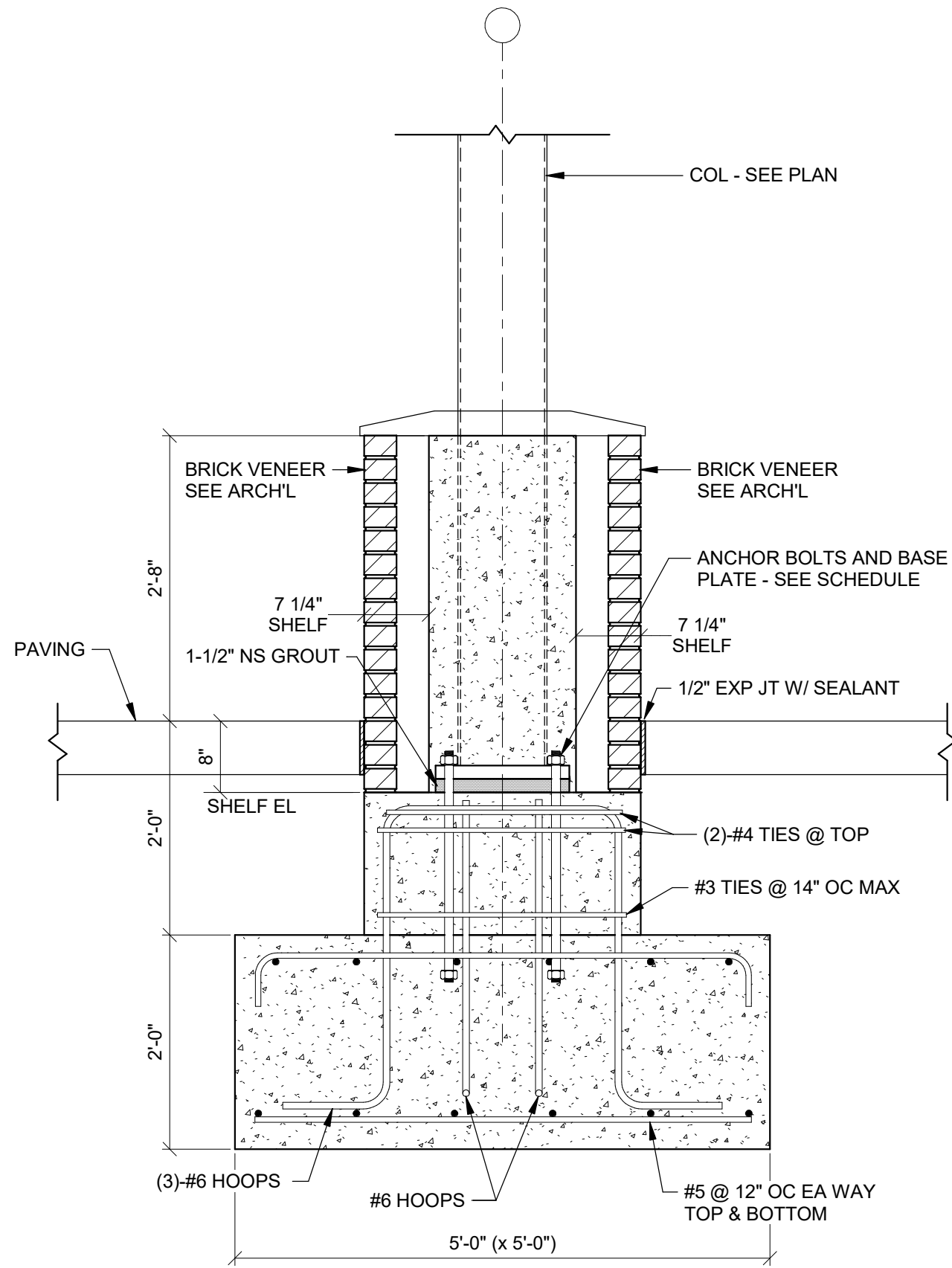
FOUNDATION PLAN - DROP OFF CANOPY

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



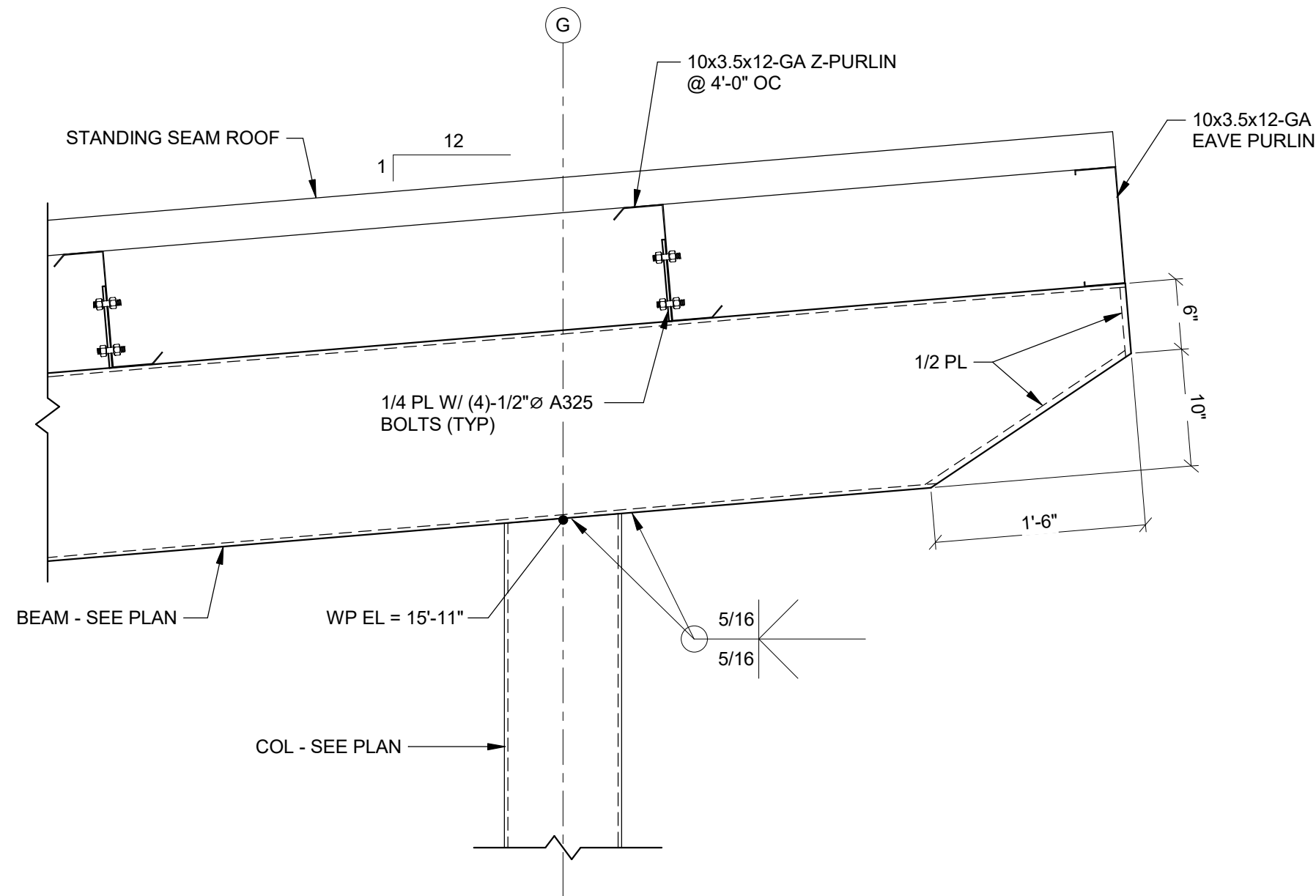
SECTION 2

SCALE: 1" = 1'-0"



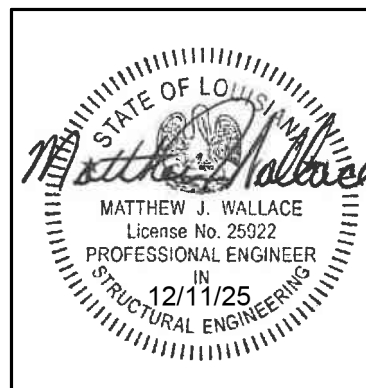
SECTION 1

SCALE: 3/4" = 1'-0"



SECTION 3

SCALE: 1" = 1'-0"



STATE OF LOUISIANA
PROFESSIONAL ENGINEERS
AND SURVEYORS

CONSULTING ENGINEERS
3003 KNIGHT STREET, SUITE 120
SHREVEPORT, LOUISIANA 71105
phone: 318-425-7452 fax: 318-425-4622
www.AFJMc.com

ENGINEER: MATTHEW J. WALLACE, P.E., S.E.
LICENSE NO. 25922

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COMPONENTS FOR CONSTRUCTION SAFETY. 25-225

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No.	Description	Date

DRAWN BY: PSF

CHECKED BY: MJW

SHEET

S3.01

Date: DEC. 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

FOUNDATION &
FRAMING PLAN -
DROP OFF CANOPY

GENERAL NOTES

GENERAL:

1. DESIGN DRAWINGS DEPICT THE FINISHED STATE OF THE CONSTRUCTED BUILDING OR STRUCTURE. IF INSTALLATION MEANS AND METHODS REQUIRE ADDITIONAL LABOR OR MATERIALS NOT SHOWN ON THE DESIGN DRAWINGS, THE COST OF THIS LABOR AND MATERIALS ARE TO BE INCLUDED IN THE GENERAL CONTRACTOR'S CONSTRUCTION PRICE. NO CHANGE ORDER WILL BE APPROVED BY THE DESIGN TEAM FOR COSTS ASSOCIATED WITH THE CONTRACTOR'S MEANS AND METHODS.
2. THE CONTRACTOR SHALL VERIFY FIELD DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES IN THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
3. THESE DRAWINGS ARE NOT TO BE SCALED. CALLED DIMENSIONS GOVERN SCALED DIMENSIONS.
4. THE CONTRACTOR SHALL VERIFY LOCATIONS AND SIZES OF ALL OPENINGS IN FLOORS AND ROOFS AND ALL INSERTS AND EMBEDDED ITEMS WITH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS BEFORE PLACING CONCRETE, INSTALLING METAL DECKING OR ERECTING ANY STRUCTURAL LOAD BEARING MATERIAL. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL COORDINATION WITH SUB-CONTRACTORS.
5. ADEQUATE TEMPORARY BRACING WILL BE REQUIRED OF ALL STRUCTURAL PIECES OR UNITS UNTIL THE FLOOR AND ROOF DECK ARE IN PLACE. ALL PERMANENT BRACING IS IN PLACE, ALL MOMENT CONNECTIONS ARE WELDED OUT, AND ALL CONCRETE HAS BEEN PLACED AND GAINED ITS ULTIMATE STRENGTH.
6. IN CASE OF DRAWING DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL VERIFY WITH ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
7. THE LATEST EDITION OF IBC, ACI, AISC, AWS, CRSI, AND SJI SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.
8. STRUCTURAL DESIGN CRITERIA (REF IBC 2021 AND ASCE 7-16):

ROOF DEAD LOAD	- 20 PSF
ROOF LIVE LOAD	- 20 PSF
FLOOR LIVE LOAD	- 100 PSF
BUILDING RISK CATEGORY III	
WIND LOAD	V _{ult} = 113 MPH PER ASCE 7-16 EXPOSURE G _{CPI} = +/- 0.18 SEE CHART FOR COMPONENTS AND CLADDING DESIGN PRESSURES
SEISMIC LOAD	IMPORTANCE FACTOR, I _e = 1.25 S _s = 0.133 S ₁ = 0.080 SITE CLASSIFICATION D S _{ds} = 0.142 S _{d1} = 0.128 SEISMIC DESIGN CATEGORY B SEISMIC FORCE RESISTING SYSTEM - ORDINARY STEEL MOMENT FRAMES RESPONSE MODIFICATION COEFFICIENT, R = 3.5 ANALYSIS PER EQUIVALENT LATERAL FORCE PROCEDURE
SNOW LOAD	IMPORTANCE FACTOR, I _s = 1.0 GROUND SNOW LOAD, P _g = 5 PSF
9. UNLESS NOTED OTHERWISE STRUCTURAL MEMBERS HAVE BEEN DESIGNED TO MEET THE FOLLOWING SERVICEABILITY CRITERIA: LIVE LOAD DEFLECTION L/600 TOTAL LONG TERM DEFLECTION L/240 EXTERIOR EDGE BEAMS HAVE BEEN DESIGNED FOR LIVE LOAD DEFLECTIONS OF L/600 OR 1/2" WHICHEVER IS LESS LATERAL DRIFT OF FRAMES LIMITED TO L/400 UNDER SERVICE WIND LOADS WITH A 25-YEAR WRI	
10. CONTRACTOR SHALL REVIEW AND STAMP ALL SUBMITTALS BEFORE FORWARDING TO ARCHITECT/ENGINEER FOR REVIEW. CONTRACTOR SHOULD INCORPORATE TEN (10) WORKING DAYS FOR ENGINEER REVIEW.	

DELEGATED DESIGN ITEMS:

THE FOLLOWING STRUCTURAL ITEMS ARE DELEGATED DESIGN ITEMS AND SHALL BE DESIGNED BY A SPECIALTY DESIGN ENGINEER UNDER CONTRACT WITH THE GENERAL CONTRACTOR. REFERENCE SPECIFICATIONS AND STRUCTURAL NOTES FOR SPECIFIC REQUIREMENTS FOR EACH DELEGATED DESIGN ITEM.

LOAD-BEARING LIGHT GAGE STEEL FRAMING AND TRUSSES

QUALITY ASSURANCE:

1. TESTING LABORATORY SHALL SUBMIT REPORTS INDICATING RESULTS AND OBSERVATIONS OF TESTS AND INSPECTIONS AND STATING COMPLIANCE OR NONCOMPLIANCE WITH CONTRACT DOCUMENTS TO ARCHITECT (STRUCTURAL ENGINEER) PER IBC 1704 AND 1705 AND GOVERNING CODE AUTHORITY. CONTRACTOR SHALL COORDINATE WITH TESTING AGENCY FOR ACCESS AND TESTING OF MATERIALS AND CONSTRUCTION. CONTRACTOR SHALL REIMBURSE OWNER FOR COSTS RELATED TO TESTS AND INSPECTIONS OF UNIDENTIFIABLE MATERIALS OR MATERIALS FURNISHED WITHOUT CERTIFIED LABORATORY TEST REPORTS. MATERIALS FOUND DEFICIENT AFTER INITIAL TESTS AND INSPECTIONS, OR MATERIALS REPLACING DEFICIENT MATERIALS, SEE SPECIFICATIONS FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS.
2. PROVIDE CEMENT, AGGREGATES, REINFORCING STEEL, STRUCTURAL STEEL, HIGH-STRENGTH BOLTS, OPEN-WEB STEEL JOISTS, ETC., FROM IDENTIFIABLE TESTED STOCK. SUBMIT CERTIFIED LABORATORY TEST REPORTS TO ARCHITECT (STRUCTURAL ENGINEER) AND GOVERNING CODE AUTHORITY. IF MATERIALS CANNOT BE IDENTIFIED OR IF CERTIFIED LABORATORY TEST REPORTS CANNOT BE MADE AVAILABLE, TESTING LABORATORY WILL PERFORM TESTS TO DETERMINE CONFORMANCE WITH CONTRACT DOCUMENTS AS DIRECTED BY ARCHITECT (STRUCTURAL ENGINEER).
3. THE OWNER SHALL ENGAGE AN APPROVED AGENCY TO ACT AS THE SPECIAL INSPECTIONS COORDINATOR TO PROVIDE SPECIAL INSPECTIONS COMPLYING WITH IBC CHAPTER 17 AND THE STATEMENT OF SPECIAL INSPECTIONS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD (SER). THE SPECIAL INSPECTIONS COORDINATOR SHALL PROVIDE INTERIM REPORTS AND A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS AT THE COMPLETION OF THE PROJECT. SPECIAL INSPECTIONS SHALL BE PERFORMED FOR THE FOLLOWING:
- STRUCTURAL STEEL CONSTRUCTION PER AISC 360-16
 - OPEN-WEB STEEL JOISTS AND JOIST GIRDERS TABLE 1705.2.3
 - CONCRETE CONSTRUCTION PER TABLE 1705.3
 - MASONRY CONSTRUCTION PER TABLE 1.19.2 (TMS 402-11/ACI 530-11/ASCE 5-11)
 - WOOD CONSTRUCTION PER SECTION 1705.5
 - SHALLOW FOUNDATION AND FILL INSTALLATION PER TABLE 1705.6
 - CAST-IN-PLACE DEEP FOUNDATION ELEMENTS PER TABLE 1705.8
4. SPECIAL INSPECTIONS AND OBSERVATIONS COMPLYING WITH IBC 1705.12 FOR WIND RESISTANCE ARE NOT REQUIRED FOR THIS PROJECT.
5. SPECIAL INSPECTIONS AND OBSERVATIONS COMPLYING WITH IBC 1705.13 FOR SEISMIC RESISTANCE ARE NOT REQUIRED FOR THIS PROJECT.

FOUNDATION:

1. FOUNDATION DESIGN IS BASED ON THE SOIL INVESTIGATION REPORT MADE BY ANDERSON ENGINEERING CONSULTANTS, INC. DATED OCTOBER 29, 2025 (JOB NO. 17833). AN ELECTRONIC COPY OF THE REPORT IS AVAILABLE UPON REQUEST.
2. SHALLOW FOOTINGS SHALL BEAR A MINIMUM OF 2'-0" BELOW LOWEST ADJACENT FINISHED GRADE ON FIRM NATURAL SOIL WITH A MINIMUM ALLOWABLE NET BEARING CAPACITY OF 2,000.
3. ALL SOIL USED AS FILL SHALL BE A CLAYEY SAND (SC) OR LOW PLASTICITY SANDY CLAY (CL) WITH A LIQUID LIMIT LESS THAN 40, PLASTICITY INDEX BETWEEN 7 AND 18, AND LESS THAN 70% PASSING THE No. 200 SIEVE. ALL FILL SHALL BE PLACED IN 8" LIFTS AND COMPACTED TO 98% ASTM D698 DENSITY. SUBGRADE ELEVATION SHALL BE LEVEL OR BENCHMARKED WITH A TRANSITION OF 3H:1V. DO NOT PLACE FILL ON SLOPING SUBGRADE. EXTEND FILL PLACEMENT A MINIMUM OF 5-FT BEYOND THE BUILDING LINE.
4. SUBMIT SELECT FILL GRADATION AND PROCTOR ANALYSIS FOR APPROVAL PRIOR TO INSTALLATION OF SELECT FILL.
5. TESTING AGENCY SHALL OBSERVE PROOFLAPPING ACTIVITIES AND SELECT FILL GRADATION, SOILS CLASSIFICATION, AND PROCTOR SHALL BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF BUILDING PAD PREPARATION AND INSTALLATION OF SELECT FILL. EACH LIFT OF COMPACTED SOIL SHALL BE TESTED PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS (1 TEST PER 2,500-SF WITH 4 TESTS MINIMUM PER LIFT).
6. CONTRACTOR SHALL PROVIDE FOR DEWATERING AT EXCAVATIONS FROM EITHER SURFACE WATER OR SEEPAGE.
7. CONTRACTOR SHALL PROVIDE ADEQUATE EXCAVATION SHORING TO PREVENT CAVE-INS.
8. AF-INC. RECOMMENDS ALL GRADE BEAMS BE FORMED ON BOTH SIDES WITH PLYWOOD. GRADE BEAM DIMENSIONS AND DETAILS ARE BASED ON FORMED GRADE BEAMS. IF GRADE BEAMS ARE EARTH FORMED THE CONTRACTOR SHALL WIDEN GRADE BEAMS BY 3" MINIMUM TO PROVIDE A MINIMUM OF 3" CLEARANCE FROM EARTH SIDE WALLS TO REINFORCING. AT A MINIMUM GRADE BEAMS SHALL BE FORMED AT THE FOLLOWING LOCATIONS:
- BUILDING CORNERS
 - EXTERIOR SIDE ABOVE GRADE
 - AT CONDUIT AND PIPING PENETRATIONS
- A 3" MUD SLAB SHALL BE PLACED IN THE BOTTOM OF ALL GRADE BEAM EXCAVATIONS AND BOTTOM OF GRADE BEAM TRENCH SHALL BE FREE OF LOOSE DIRT, MUD, ETC. AND ALL REINFORCING SHALL BE FREE OF DIRT, MUD, AND OTHER DELETERIOUS MATERIAL PRIOR TO CONCRETE PLACEMENT.

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE NEW BILLET, ASTM A615 GRADE 60 DEFORMED DOMESTIC BARS UNLESS NOTED OTHERWISE. ALL DETAILING, FABRICATION, PLACING AND SUPPORTING SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318 AND CRSI. ALL REINFORCING SHOWN TO BE WELDED SHALL BE ASTM A706 GRADE 60.
2. ALL DOWELS SHALL BE THE SAME SIZE AND SPACING AS ADJOINING MAIN BARS (MIN. LAP 62 BAR DIA.), UNLESS NOTED OR DETAILED OTHERWISE. THE MINIMUM SPLICE LENGTH OF ALL CONTINUOUS BARS SHALL BE 62 BAR DIA. (CLASS A SPLICE = 1.3 x DEVELOPMENT LENGTH PER ACI).
3. CLEAR MINIMUM COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE PER ACI 318 AND AS FOLLOWS:
- | | |
|-------------------------------|--------|
| CONCRETE CAST AGAINST EARTH | 3" |
| FORMED CONCRETE AGAINST EARTH | 1-1/2" |
| TOP OF SLABS-ON-GRADE | 2" UNO |
4. PROVIDE CHAIRS UNDER REINFORCING FOR SLABS-ON-METAL DECK AS REQUIRED TO LOCATE THE REINFORCING IN THE MIDDLE OF THE CONCRETE TOPPING ABOVE THE DECK RIBS.
5. ALL REINFORCING BARS, WELDED WIRE FABRIC, BOLTS, DOWELS, INSERTS, ETC., SHALL BE RIGIDLY SECURED IN POSITION PRIOR TO PLACING CONCRETE.
6. CONTRACTOR SHALL SUBMIT COMPLETE SHOP AND PLACING DRAWINGS AND OBTAIN APPROVAL PRIOR TO FABRICATION.

CONCRETE:

1. CONCRETE SHALL HAVE THE FOLLOWING 28-DAY STRENGTHS:
- | | |
|----------------------------------|-----------|
| FOOTINGS, GRADE BEAMS, AND PIERS | 3,000 PSI |
| SLABS-ON-GRADE | 4,000 PSI |
- ENTRAPPED AIR SHALL NOT EXCEED 3% AND WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 FOR INTERIOR SLABS WITH A STEEL TROWEL FINISH.
2. MAXIMUM AGGREGATE SHALL BE AS FOLLOWS:
- | | |
|---------------------------------------|--------|
| FOOTINGS, GRADE BEAMS, AND PIERS - 1" | 1-1/2" |
| SLABS-ON-GRADE | 1-1/2" |
3. SAND LAYER UNDER VAPOR BARRIER SHALL BE CLEAN MIXTURE OF CRUSHED STONE, CRUSHED GRAVEL, AND MANUFACTURED OR NATURAL SAND; ASTM D448 SIZE 10, WITH 100% PASSING A 30" SIEVE, 10% TO 30% PASSING A No. 100 SIEVE, AND LESS THAN 5% PASSING THE No. 200 SIEVE. MATERIAL SHALL COMPLY WITH DELETERIOUS SUBSTANCE LIMITS OF ASTM C33 FOR FINE AGGREGATES. SUBMIT GRADATION FOR APPROVAL PRIOR TO INSTALLATION OF SAND LAYER.
4. VAPOR BARRIER SHALL BE 15-MIL UNLESS NOTED ON THE DRAWINGS. REFERENCE SPECIFICATIONS FOR ADDITIONAL VAPOR BARRIER REQUIREMENTS.
5. CHAMFER ALL EXPOSED EDGES TO 3/4" UNLESS OTHERWISE NOTED.
6. PIPING OR SIMILAR VERTICAL SLAB-ON-GRADE PENETRATIONS SHALL BE WRAPPED WITH 3/8" CLOSED CELL INSULATION HELD 3/8" BELOW THE SLAB AND TOPPED WITH JOINT SEALANT.
7. ALL EXPOSED VERTICAL CONCRETE SURFACES TO RECEIVE RUBBED FINISH UNLESS OTHERWISE NOTED.

MISCELLANEOUS STEEL:

REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MISCELLANEOUS STEEL ITEMS.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE 15TH EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION AND AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC 303-16 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES." STEEL FOR WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, HSS SQUARE AND RECTANGULAR SECTIONS SHALL CONFORM TO ASTM A500 GRADE C (50-KSI), HSS ROUND SECTIONS SHALL CONFORM TO ASTM A500 GRADE C (46-KSI), PLATE MATERIAL ASTM A572 OR A529 (50-KSI), ALL OTHER STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36.
2. UNLESS NOTED OTHERWISE, CONNECTIONS BETWEEN STRUCTURAL STEEL MEMBERS SHALL BE SELECTED OR COMPLETED BY AN EXPERIENCED STEEL DETAILER PER OPTION 2 OF SECTION 3.1.1 OF AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
3. FOR THOSE CONNECTIONS SELECTED OR COMPLETED BY AN EXPERIENCED STEEL DETAILER PER OPTION 2 OF THE CODE OF STANDARD PRACTICE, THE SHOP DRAWINGS SHALL PROVIDE THE SHEAR CAPACITY OF THE END CONNECTIONS ON THE BEAM PIECE SHEETS.
4. CONNECTIONS OF STRUCTURAL STEEL BEAMS TO COLUMNS AND BEAMS TO BEAMS SHALL BE BEARING TYPE WITH STANDARD CLIP ANGLES WITH THE MAXIMUM NUMBER OF BOLT ROWS USING 3" SPACING PERMITTED BY THE INDIVIDUAL BEAM SIZE, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL FLOOR OR ROOF FILLER BEAMS CARRYING GRAVITY LOAD ONLY MAY BE CONNECTED TO GIRDERS USING SINGLE ANGLE SHEAR CONNECTIONS SIZED TO DEVELOP THE MEMBER END FORCES SHOWN.
5. LOAD-BEARING STRUCTURAL MEMBERS AND ASSEMBLIES FABRICATED IN THE SHOP SHALL BE INSPECTED PER IBC 1704.2.5 UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL. APPROVED FABRICATORS SHALL SUBMIT A CERTIFICATE OF COMPLIANCE AT THE COMPLETION OF FABRICATION IN LIEU OF THE INSPECTIONS SPECIFIED IN IBC 1704.2.5.
6. ALL WELDING SHALL CONFORM TO THE RECOMMENDATIONS OF THE AWS, AND ALL WELDS, INCLUDING FIELD, SHALL BE MADE ONLY BY CERTIFIED WELDERS USING E70XX ELECTRODES.
7. BOLTED CONNECTIONS FOR STRUCTURAL STEEL TO STRUCTURAL STEEL SHALL BE 3/4"-DIAMETER ASTM A325-N, BEARING TYPE UNLESS NOTED OTHERWISE. CONNECTIONS NOTED OR REQUIRED TO BE FULLY TIGHTENED SHALL BE WITH ASTM F3125, GRADE F1852 "TWIST-OFF" STYLE TENSION CONTROL BOLT ASSEMBLIES (A325-N EQUIVALENT). COORDINATE LOCATION OF BOLTED JOIST CONNECTIONS WITH JOIST SUPPLIER AND PROVIDE A325 BOLTS AS REQUIRED.
8. ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 AND SHALL HAVE A PLATE WASHER AND MAXIMUM HOLE DIAMETER PER AISC TABLE 14-2. PLATE WASHERS SHALL BE WELDED TO THE BASE PLATE AT ALL VERTICAL BRACING LOCATIONS. ALL ANCHOR RODS SHALL BE SET WITH TEMPLATES TO THE TOLERANCES GIVEN IN SECTION 7.5.1 OF THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. PLACE AND SECURE ANCHOR RODS PRIOR TO PLACEMENT OF CONCRETE - DO NOT PLACE ANCHOR RODS IN WET CONCRETE. CEMENTITIOUS NON-SHRINK GROUT UNDER BASE PLATES AND BEARING PLATES SHALL HAVE A MINIMUM STRENGTH OF 6,000-PSI. ALL BASE PLATES SHALL BE FULLY GROUTED PRIOR TO PLACING ELEVATED FLOOR AND ROOF ASSEMBLIES.
9. STEEL JOISTS SHALL BE DESIGNED, MANUFACTURED AND BRIDGED TO CONFORM WITH THE LATEST EDITION OF THE "STEEL JOIST INSTITUTE" STANDARD SPECIFICATIONS. PROVIDE RECOMMENDED CAMBER FOR JOIST SPAN. JOIST MANUFACTURER SHALL PROVIDE JOIST BRIDGING PER SJI RECOMMENDATIONS FOR ERECTION STABILITY AND A NET UPLIFT FORCE OF 15-PSF ASD FOR ROOF JOISTS UNLESS OTHERWISE NOTED. STEEL JOIST MANUFACTURER SHALL SUPPLY A CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH IBC 2207.5. MECHANICAL EQUIPMENT LOADS SHOWN ARE IN ADDITION TO STANDARD JOIST LOADING. CONTRACTOR SHALL PROVIDE A 1/2-1/2 x 2-1/2 x 3/16 ANGLE WITH 1/2"-DIAMETER HILTI HUS SCREW WITH 4" EMBEDMENT AT JOIST BRIDGING TERMINATION LOCATIONS AT CMU OR TILT-UP WALLS.

10. ROOF DECKING SHALL BE 1-1/2", 22 GAGE, TYPE B, GALVANIZED STEEL DECK. ATTACH ROOF DECK TO SUPPORTS WITH 5/8" PUDDLE WELDS AT 12" O.C. (584 FASTENER PATTERN). PROVIDE ONE (1) #10 TEK SCREW SIDE LAP FASTENER AT MIDSPAN OF DECK, TYPICAL UNLESS NOTED OTHERWISE. ATTACH ROOF DECK TO PERIMETER SUPPORTS WITH 5/8" PUDDLE WELDS AT 6" O.C. AT ROOF EDGES.
11. DECK SUPPLIER SHALL SUPPLY ALL GIRDER FILLERS, CELL CLOSURES, AND COLUMN CLOSURES AS REQUIRED.
12. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MISCELLANEOUS STEEL ITEMS NOT SHOWN ON STRUCTURAL DRAWINGS.
13. CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND OBTAIN APPROVAL PRIOR TO FABRICATION.

CONCRETE:

1. CONCRETE SHALL HAVE THE FOLLOWING 28-DAY STRENGTHS:
- | | |
|--|----------------------------|
| FOOTINGS, GRADE BEAMS, AND PIERS - 3,000 PSI | SLABS-ON-GRADE - 4,000 PSI |
|--|----------------------------|
- ENTRAPPED AIR SHALL NOT EXCEED 3% AND WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 FOR INTERIOR SLABS WITH A STEEL TROWEL FINISH.
2. MAXIMUM AGGREGATE SHALL BE AS FOLLOWS:
- | | |
|---------------------------------------|-------------------------|
| FOOTINGS, GRADE BEAMS, AND PIERS - 1" | SLABS-ON-GRADE - 1-1/2" |
|---------------------------------------|-------------------------|
3. SAND LAYER UNDER VAPOR BARRIER SHALL BE CLEAN MIXTURE OF CRUSHED STONE, CRUSHED GRAVEL, AND MANUFACTURED OR NATURAL SAND; ASTM D448 SIZE 10, WITH 100% PASSING A 30" SIEVE, 10% TO 30% PASSING A No. 100 SIEVE, AND LESS THAN 5% PASSING THE No. 200 SIEVE. MATERIAL SHALL COMPLY WITH DELETERIOUS SUBSTANCE LIMITS OF ASTM C33 FOR FINE AGGREGATES. SUBMIT GRADATION FOR APPROVAL PRIOR TO INSTALLATION OF SAND LAYER.
4. VAPOR BARRIER SHALL BE 15-MIL UNLESS NOTED ON THE DRAWINGS. REFERENCE SPECIFICATIONS FOR ADDITIONAL VAPOR BARRIER REQUIREMENTS.
5. CHAMFER ALL EXPOSED EDGES TO 3/4" UNLESS OTHERWISE NOTED.
6. PIPING OR SIMILAR VERTICAL SLAB-ON-GRADE PENETRATIONS SHALL BE WRAPPED WITH 3/8" CLOSED CELL INSULATION HELD 3/8" BELOW THE SLAB AND TOPPED WITH JOINT SEALANT.
7. ALL EXPOSED VERTICAL CONCRETE SURFACES TO RECEIVE RUBBED FINISH UNLESS OTHERWISE NOTED.

LIGHT GAGE STEEL TRUSSES AND LOAD-BEARING FRAMING:

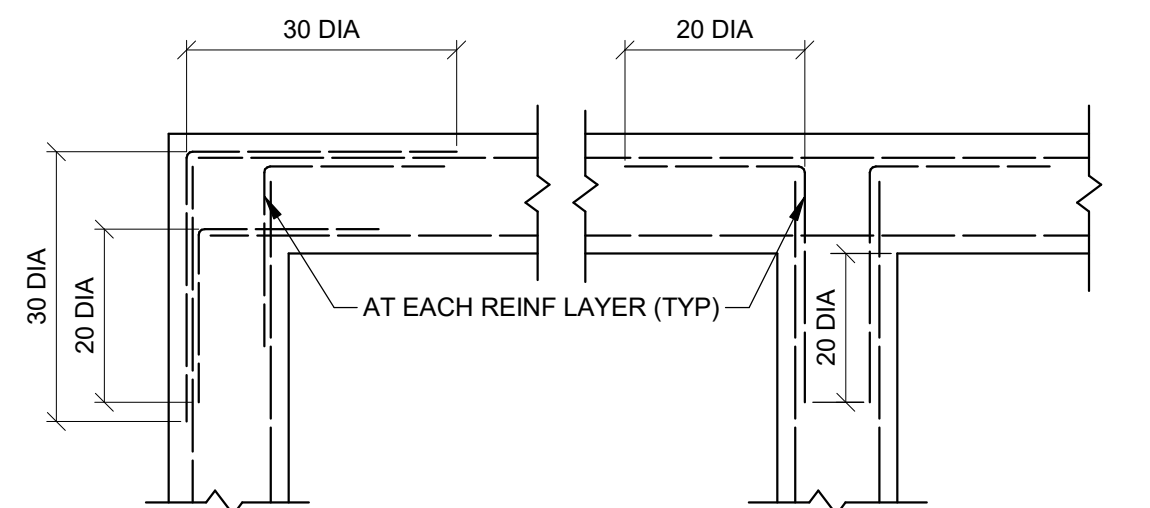
1. LIGHT GAGE STEEL TRUSSES, ROOF FRAMING MEMBERS, AND LOAD-BEARING METAL STUD COMPONENTS AND THEIR CONNECTIONS SHALL BE DESIGNED BY SUPPLIER TO SUPPORT THE CODE-PRESCRIBED LOADS REFERENCED IN THE DRAWINGS AND SPECIFICATIONS. MEMBER SIZES AND SPACING SHOWN ARE FOR REFLECTING INFORMATION AND ARCHITECTURAL COORDINATION ONLY. ALL LIGHT GAGE COMPONENTS SHALL BE PART OF A DELEGATED DESIGN PACKAGE. TRUSS SUPPLIER SHALL DESIGN AND SUPPLY BOTTOM CHORD AND WEB BRACING AS REQUIRED TO DEVELOP THE REQUIRED STRENGTH OF THE TRUSS, BRACING FROM CEILING ELEMENTS OR PURLINS PROVIDED BY OTHERS SHALL NOT BE ASSUMED TO BRACE ROOF FRAMING ELEMENTS.
2. LOAD-BEARING METAL WALL STUDS SHALL BE 600S200-43 MEMBERS SPACED AT 12" O.C. LOCATE STUDS DIRECTLY UNDER TRUSS BEARING POINTS.
3. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
- | | |
|------------------------|----------|
| TOP CHORD LIVE LOAD | - 20 PSF |
| BOTTOM CHORD LIVE LOAD | - 5 PSF |
| TOP CHORD DEAD LOAD | - 10 PSF |
| BOTTOM CHORD DEAD LOAD | - 5 PSF |
4. ROOF JOIST FRAMING SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
- | | |
|----------------|----------|
| ROOF DEAD LOAD | - 15 PSF |
| ROOF LIVE LOAD | - 20 PSF |
5. ROOF TRUSS SUPPLIER SHALL SUPPLY PERMANENT BRACING FOR ROOF TRUSS BOTTOM CHORD AND ALL WEB MEMBERS IN COMPRESSION.
6. CONNECTIONS BETWEEN LOAD-BEARING TRUSSES AND LOAD-BEARING METAL WALL STUDS SHALL BE DESIGNED BY THE METAL STUD SUPPLIER USING THE LOADS SUPPLIED BY THE TRUSS MANUFACTURER. ALL CONNECTIONS SHOWN ON THE CONTRACT DRAWINGS ARE CONCEPTUAL.
7. ROOF TRUSS DESIGN DETAILS SHOWN ARE FOR REFERENCE ONLY AND ARE BASED ON THE NUCON STEEL NUTRUSST SYSTEM (DENTON, TX 940-891-3050). ALTERNATE EQUAL SYSTEMS MAY BE USED SUBJECT TO APPROVAL.
8. LOAD-BEARING METAL WALL STUDS, JOIST FRAMING, AND ROOF JOIST CALL-OUTS ARE PER CLARK STEEL FRAMING SYSTEMS. ALTERNATE EQUAL MEMBER SECTIONS MAY BE USED SUBJECT TO APPROVAL.
9. CALCULATIONS AND CONNECTION DETAILS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF LOUISIANA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION OF LIGHT GAGE COMPONENTS.

WOOD SHEATHING:

1. PLYWOOD FOR ROOF SHEATHING SHALL BE 15/32" MIN, EXTERIOR GLUE (SPAN INDEX 40/20). FASTENING FOR PLYWOOD ROOF SHEATHING SHALL BE #10-24 x 1-1/4" PWH #3 WAFFER HEAD SELF DRILLING SCREWS AT 6" O.C. ALONG PLYWOOD EDGES AND 12" O.C. ALONG INTERMEDIATE MEMBERS. INSTALL PLYWOOD SO THAT LONG DIMENSION IS PERPENDICULAR TO ROOF FRAMING DIRECTION AND EDGES ARE STAGGERED. BLOCK ALL PLYWOOD EDGES IF SUPPORTING FRAMING IS SPACED GREATER THAN 24" O.C.
2. INSTALL ALL PLYWOOD SHEATHING WITH 1/8" GAP BETWEEN PANEL EDGES AND ENDS.
3. ALL PLYWOOD SHEATHING SHALL BE FIRE RETARDANT. USE HOT DIPPED GALVANIZED FASTENERS.

MASONRY:

1. CMU WALLS SHALL BE REINFORCED AND GROUTED AS FOLLOWS UNLESS NOTED OTHERWISE:
- INTERIOR WALLS - GROUT AND REINFORCE WITH 1#5 AT 48" OC.
- EXTERIOR WALLS - GROUT AND REINFORCE WITH 1#5 AT 24" OC.
- TERMINATE VERTICAL REINFORCING IN BOND BEAM AT TOP OF WALL WITH STD HOOK. PROVIDE 50" LONG DOWEL MATCHING VERTICAL BARS WITH STANDARD HOOK INTO FOUNDATION AT ALL VERTICALLY REINFORCED CELLS. ALL CMU SHALL HAVE 9-GAGE HORIZONTAL WIRE LADDER TYPE GALVANIZED REINFORCING EVERY OTHER COURSE. HORIZONTAL WIRE LADDER REINFORCING SHALL HAVE PREFABRICATED CORNERS AND PREFABRICATED "T"s (TEES) AT WALL INTERSECTIONS.
3. MINIMUM COMPRESSION STRENGTH OF MASONRY ASSEMBLIES SHALL BE 1500-PSI (f_m = 1,500-PSI).
4. ALL CONCRETE BLOCK ABOVE GRADE SHALL BE LIGHT WEIGHT (105 PCF DENSITY) AND ALL CONCRETE BLOCK BELOW GRADE SHALL BE NORMAL WEIGHT DENSITY (135 PCF DENSITY). CONCRETE BLOCK SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH BASED ON THE NET AREA OF THE BLOCK OF 2,000 PSI.
5. MORTAR FOR CONCRETE BLOCK UNIT MASONRY CONSTRUCTION SHALL CONFORM WITH ASTM C 270. MORTAR FOR ALL APPLICATIONS SHALL BE TYPE S (COMPRESSIVE STRENGTH AT 28-DAYS = 1,800-PSI).
6. GROUT SHALL CONFORM TO ASTM C 476 AND SHALL HAVE A SLUMP OF 8" TO 11" WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. ALL BLOCK CELLS WITH VERTICAL REINFORCING SHALL BE GROUTED FULL HEIGHT. ALL BOND BEAMS SHALL BE GROUTED FULL. ALL BELOW GRADE MASONRY SHALL BE FULLY GROUTED.
7. BOND BEAMS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS IN ADDITION TO THOSE SHOWN IN SECTIONS:
- TOP OF ALL MASONRY WALLS NOT SUPPORTING FRAMING - 8" x 8"
- TOP OF ALL MASONRY WALLS SUPPORTING FRAMING - 8" x 16"
- FLOOR AND ROOF FRAMING LEVELS - 8" x 16"
- EVERY 8-FT VERTICALLY - 8" x 8"
- 8"x8" BOND BEAMS SHALL HAVE ONE (1) #5 CONTINUOUS TOP AND BOTTOM UNLESS NOTED OTHERWISE. 8"x16" BOND BEAMS SHALL HAVE ONE (1) #5 CONTINUOUS TOP AND TWO (2) #5s CONTINUOUS BOTTOM UNLESS NOTED OTHERWISE. INSTALL #5 CORNER BARS AT WALL INTERSECTIONS OR WALL CORNERS.
8. LINTELS SHALL BE PROVIDED OVER ALL CMU OPENINGS INCLUDING MECHANICAL OR OTHER OPENINGS FOR UTILITIES, ETC. PER THE SCHEDULE PROVIDED IN THE DRAWINGS. OPENINGS CREATED IN CMU WALLS AFTER THEIR COMPLETION WITH NO LINTEL OR BOND BEAM ABOVE SHALL BE REINFORCED BY THE CONTRACTOR AS REQUIRED AT NO COST TO THE OWNER.
9. CONTRACTOR SHALL SUBMIT COMPLETE SHOP AND PLACING DRAWINGS SHOWING THE ELEVATION OF ALL EXTERIOR AND LOAD-BEARING CMU WALLS SHOWING VERTICAL REINFORCING, LINTEL REINFORCING, AND BOND BEAM REINFORCING AND OBTAIN APPROVAL PRIOR TO ERECTION OF CMU OR FABRICATION OF REINFORCING.



PLAN AT TYPICAL CORNER REINFORCING

(FOR ALL REINFORCED CONCRETE BEAMS)

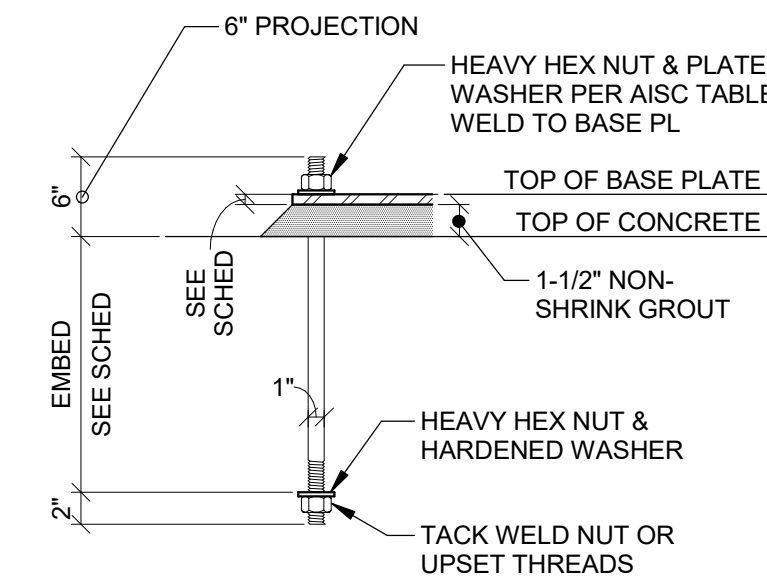
DESIGN WIND PRESSURE FOR COMPONENTS & CLADDING		
PRESSURES BASED ON Vail		
BUILDING AREA	ZONE	PRESSURE (PSF) (+) PRESSURE ACTING TOWARD SURFACE (-) PRESSURE ACTING AWAY FROM SURFACE
ROOF	1	+25.30 -22.59
	2	+37.95 -34.33
	3	+50.60 -67.77

GRADE BEAM SCHEDULE

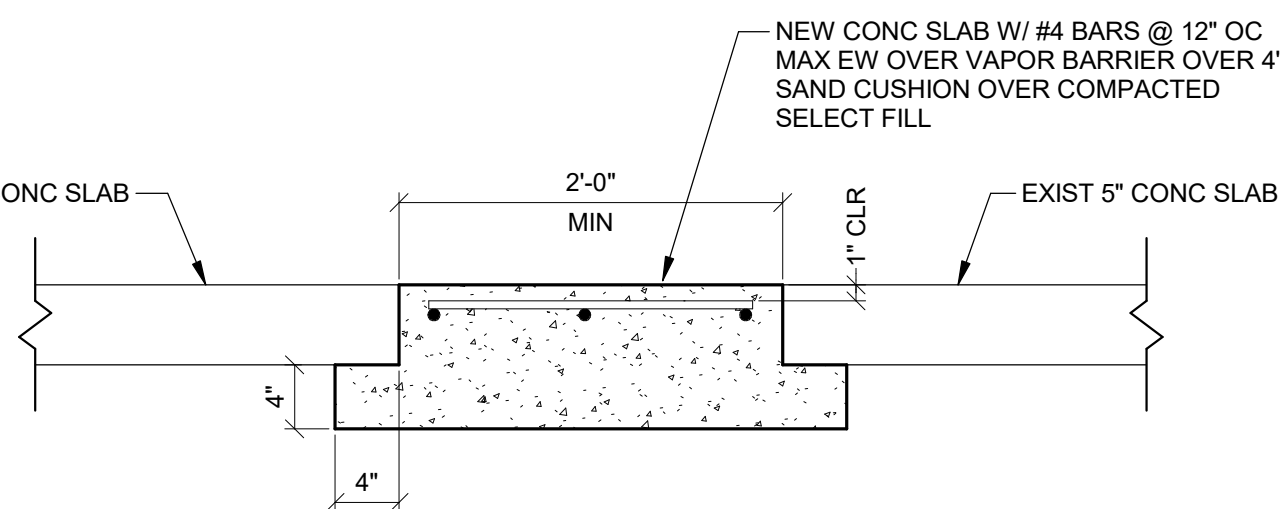
MARK	REINFORCING
GB1	15"B x 24"D W/ (2)#6 TOP & BOT W/ (5)#3 TIES @ 10" OC EACH END (FILL @ 18" OC)
GB2	12"B x 24"D W/ (2)#6 TOP & BOT W/ (5)#3 TIES @ 10" OC EACH END (FILL @ 18" OC)
GB3	20"B x 24"D W/ (3)#6 TOP & BOT W/ (5)#3 TIES @ 12" OC EACH END (FILL @ 18" OC)

BASE PLATE SCHEDULE

COLUMN	BASE PLATE SIZE	ANCHOR RODS	REMARKS
HSS10x6x5/16	1'-3"x1-1/2"x1'-7"	(4)-1"Ø x 1'-8" LG HEADED	
3"-DIA	4'-1/2"x5/8"x0'-11"	(2)-1/2" x 4'-1/2" HILTI KB3 ANCHORS	



ASTM F1554 GRADE 36 ANCHOR ROD DETAIL



TYPICAL SLAB SAWCUT REPAIR DETAIL

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

TBA

Lakeshore Office Renovation and Canopy Repair

550 Balboa Dr, Monroe, LA

DRAWING REVISIONS

No.	Description	Date

DRAWN BY: PSF

CHECKED BY: MJW

SHEET

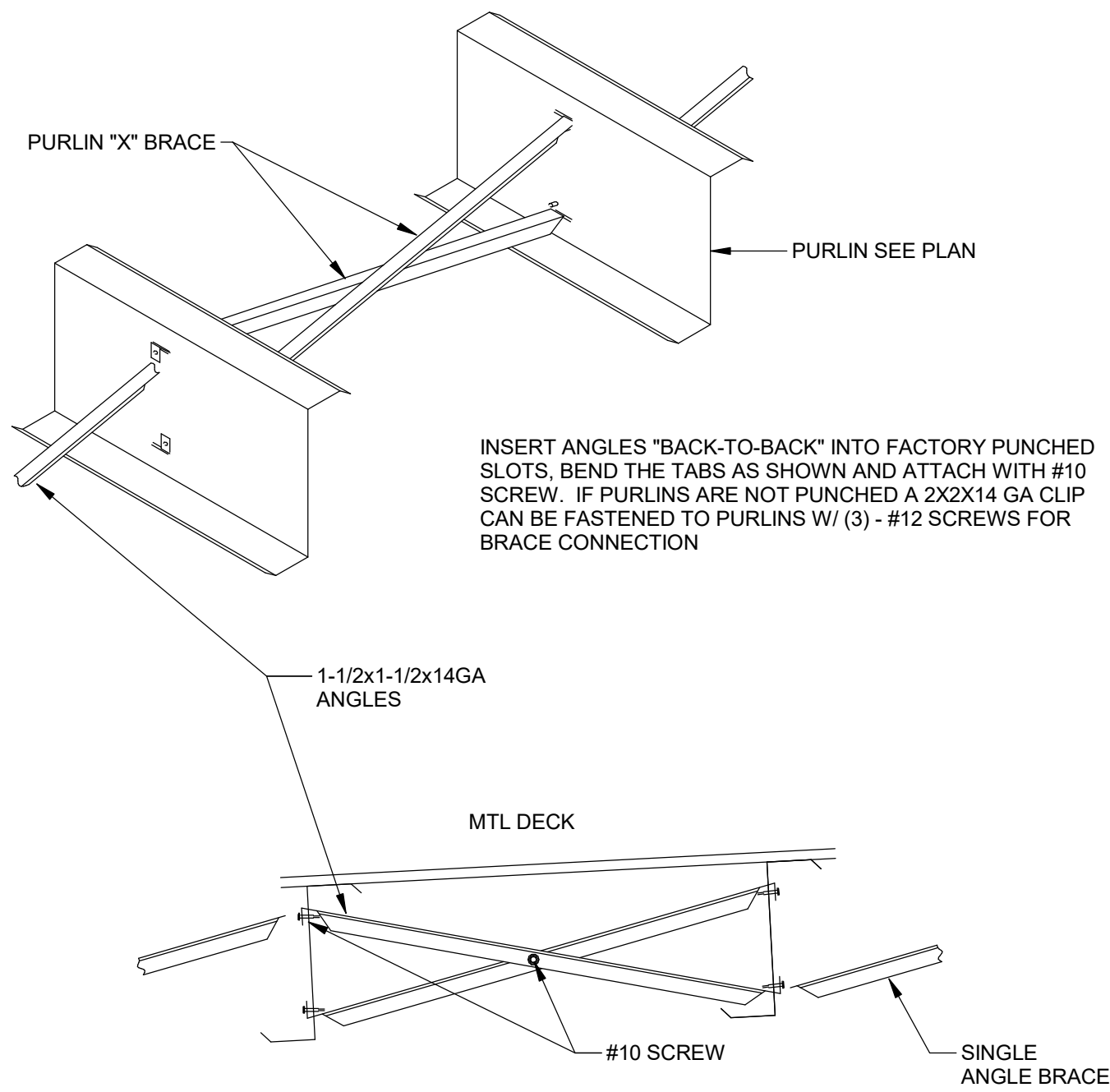
S4.01

Date: DEC. 2025
Project No.: 25-WM0039

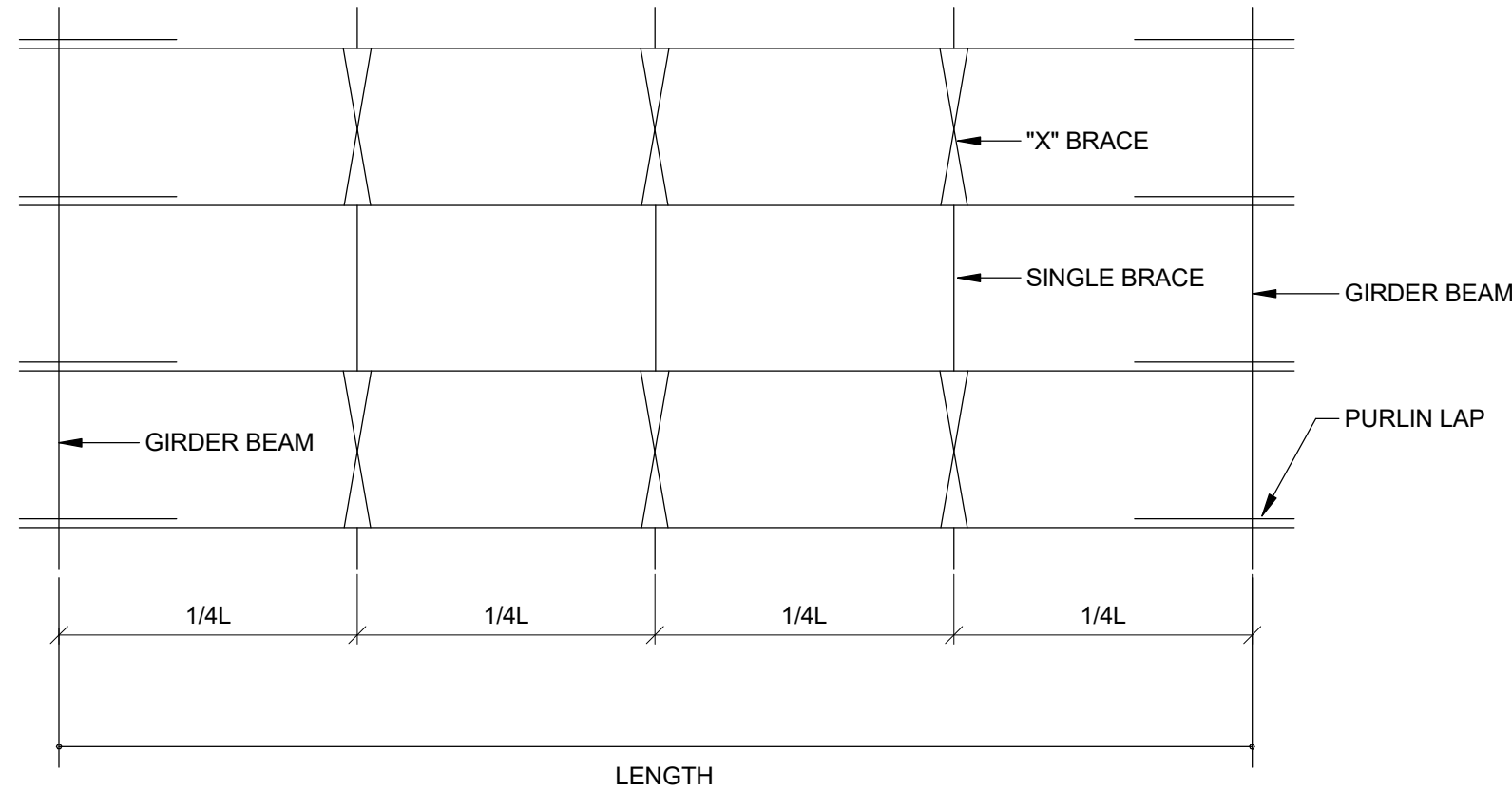
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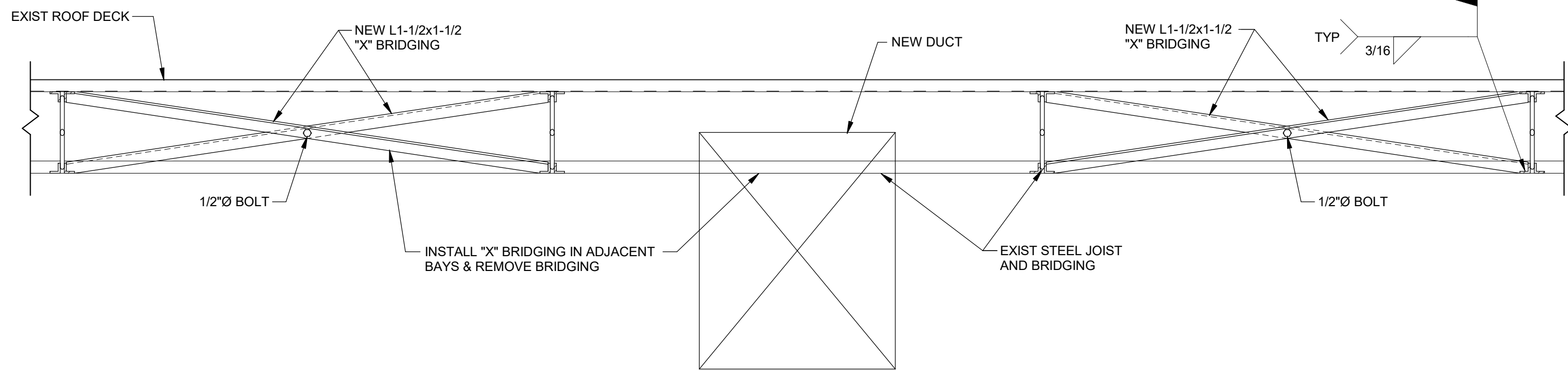
GENERAL NOTES & TYPICAL DETAILS



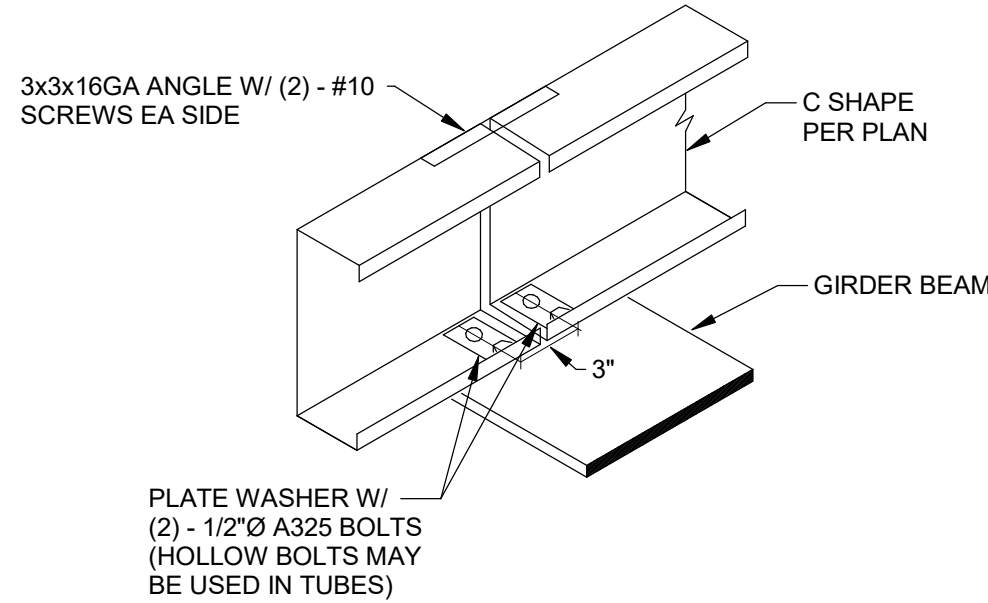
PLAN VIEW OF PURLIN BRIDGING PER BAY



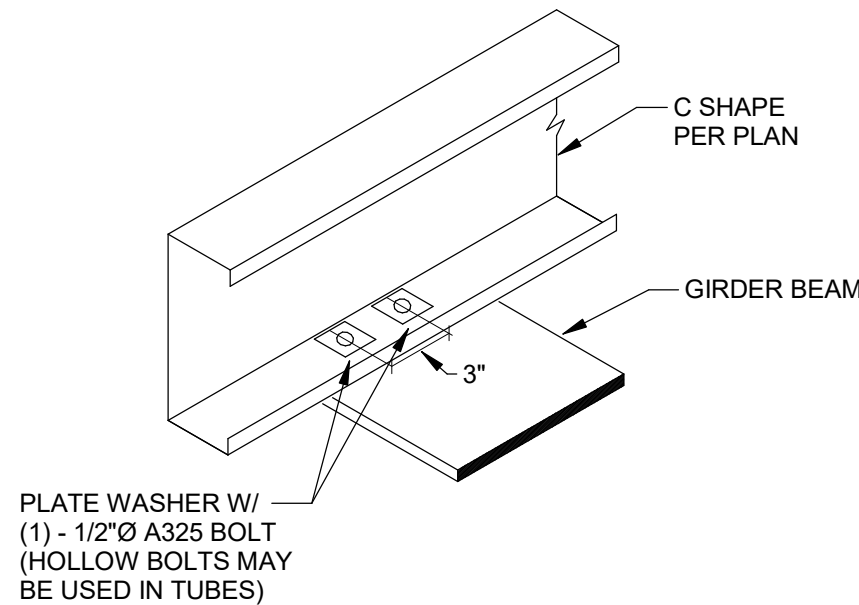
TYPICAL PURLIN BRIDGING DETAILS



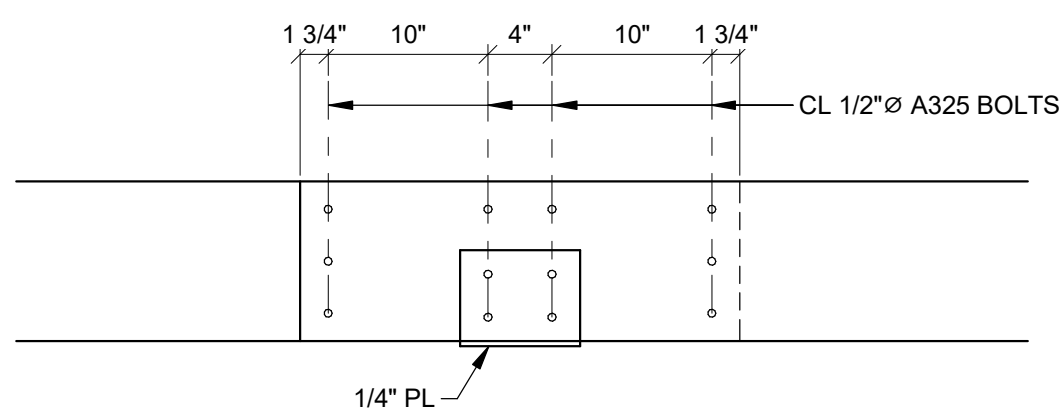
TYPICAL BRIDGING MODIFICATION AT DUCTWORK - 10 LOCATIONS



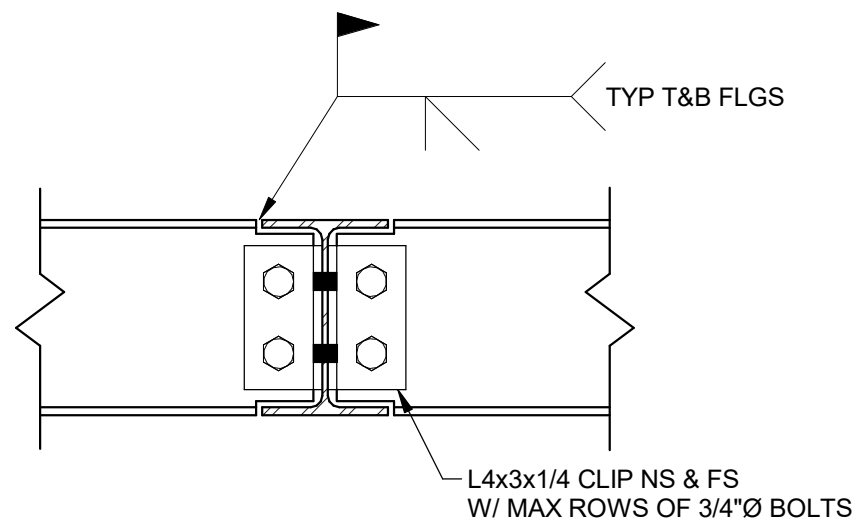
2 MEMBER EAVE CHANNEL CONDITION



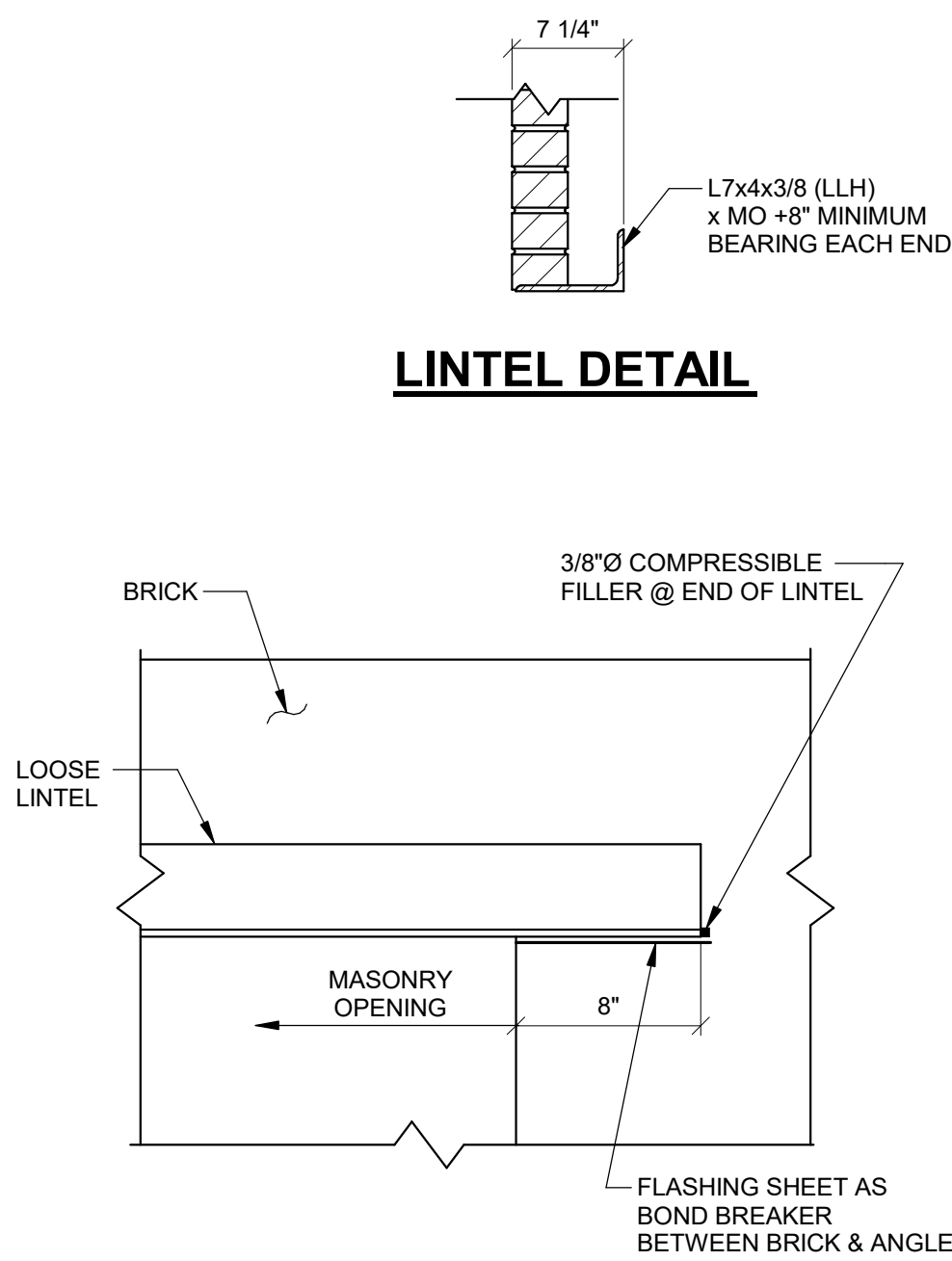
CONT EAVE CHANNEL CONDITION



STANDARD PURLIN LAP DETAIL

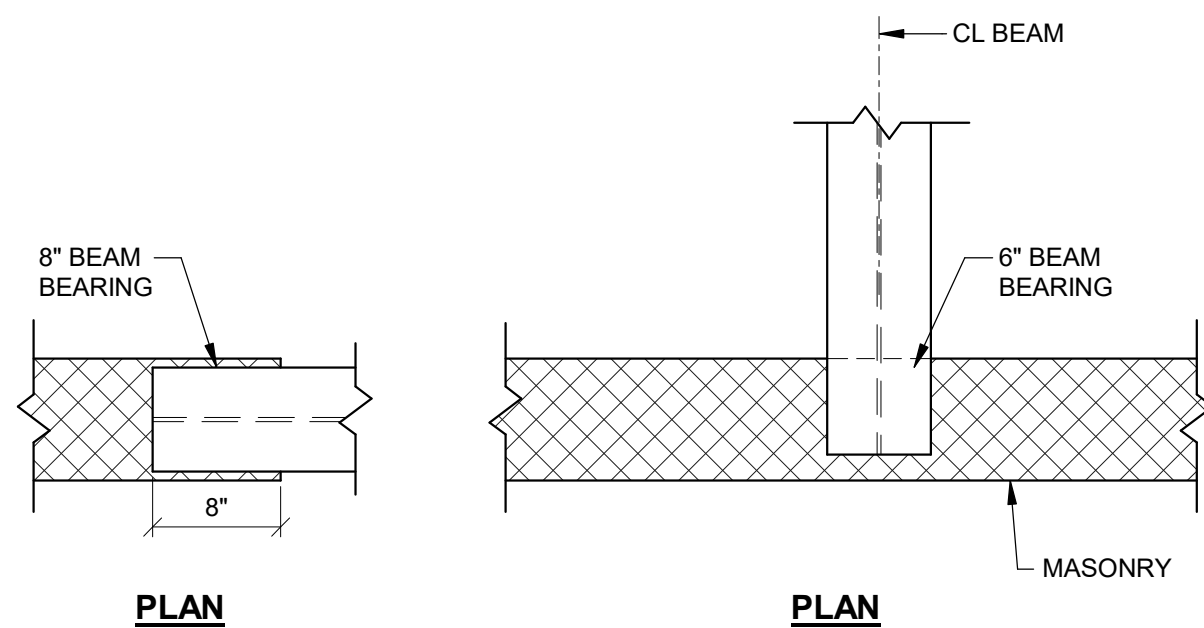


MOMENT CONNECTION



LINTEL DETAIL

TYPICAL LOOSE BRICK LINTEL BEARING ELEVATION



PLAN

PLAN

SECTION

STEEL BEAM TO EXIST MASONRY CONNX

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

TBA

Lakeshore Office Renovation and Canopy
Repair
550 Balboa Dr, Monroe, LA

DRAWING REVISIONS

No.	Description	Date

DRAWN BY: PSF

CHECKED BY: MJW

SHEET

S4.02

Date: DEC. 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

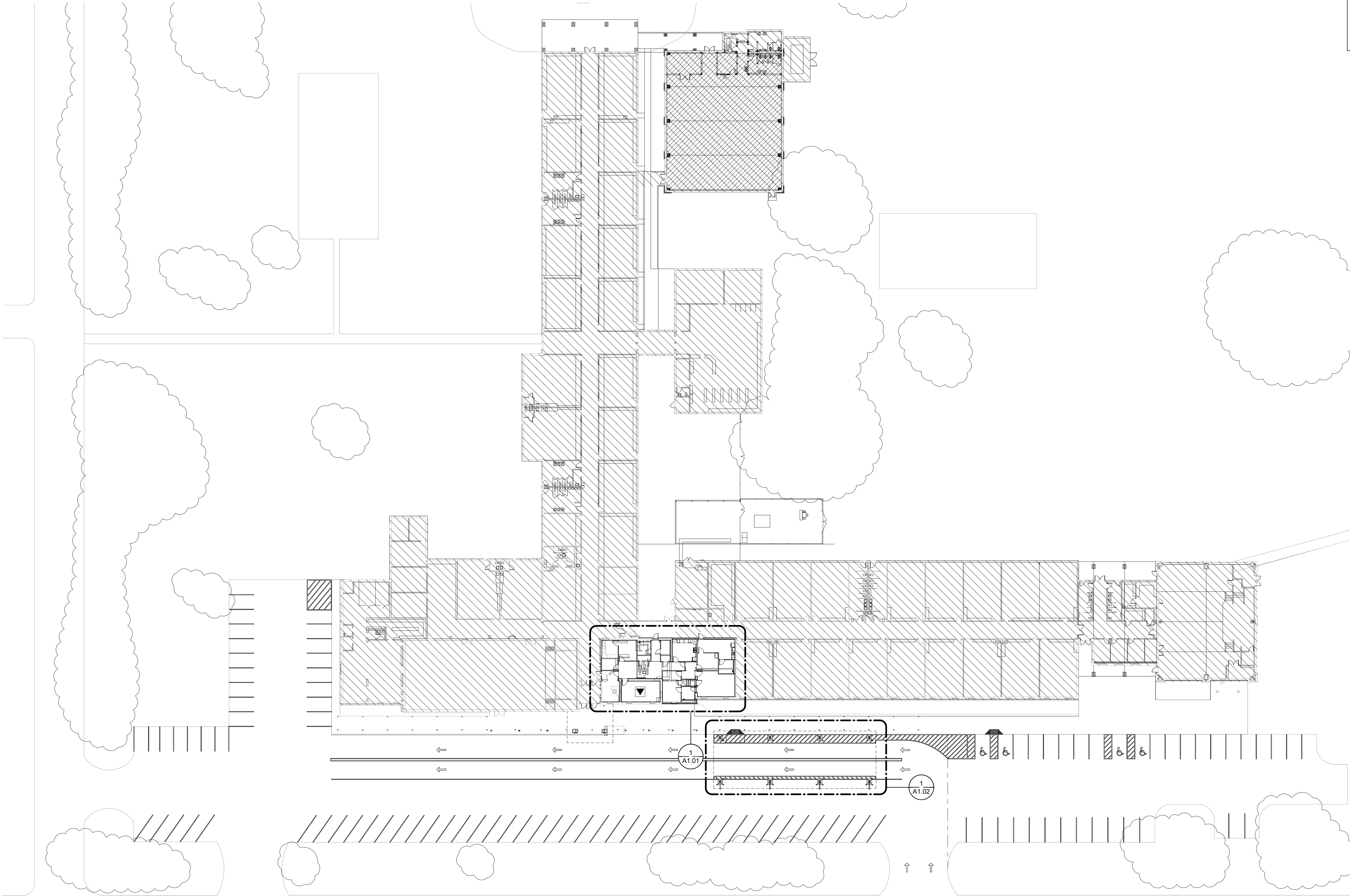
TYPICAL DETAILS

STATE OF LOUISIANA
MATTHEW J. WALLACE
License No. 25922
PROFESSIONAL ENGINEER
12/11/25
CIVIL ENGINE

CONSULTING ENGINEERS
3003 KNIGHT STREET, SUITE 120
SHREVEPORT, LOUISIANA 71105
phone: 318-425-7452 fax: 318-425-4622
www.AFJMC.com

ENGINEER: MATTHEW J. WALLACE, P.E., S.E.
LICENSE NO. 25922

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. 25-225

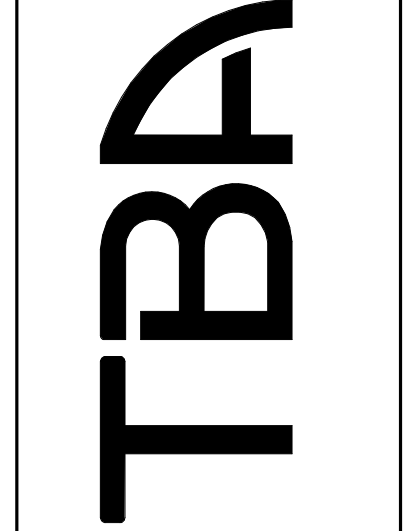


GENERAL LEGEND

GENERAL INTERIOR WORK AREA.
SEE ENLARGED PLANS.

GENERAL AREA OUTSIDE
SCOPE OF WORK UNLESS
NOTED OTHERWISE

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No.	Description	Date

DRAWN BY: Author

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SHEET

A1.00

Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:
OVERALL FLOOR
PLAN

1 OVERALL FLOOR PLAN
1" = 30'-0" | RE: 2/A1.02



1 1ST FLOOR PLAN
1/4" = 1'-0" RE:1/A1.00

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TIMOTHY M. BRANCO
L.C. #5772
STATE OF LOUISIANA
REGISTERED ARCHITECT

Lakeshore Elementary School Office
Renovation and Canopy Repair

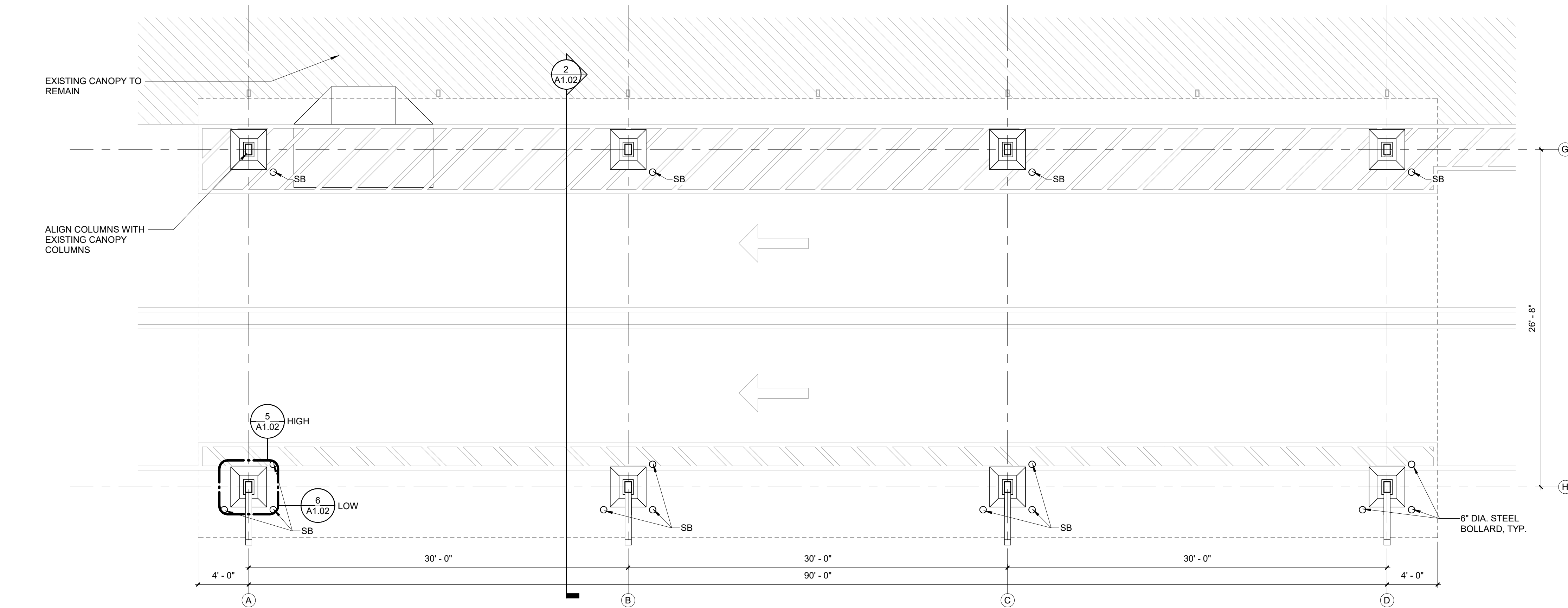
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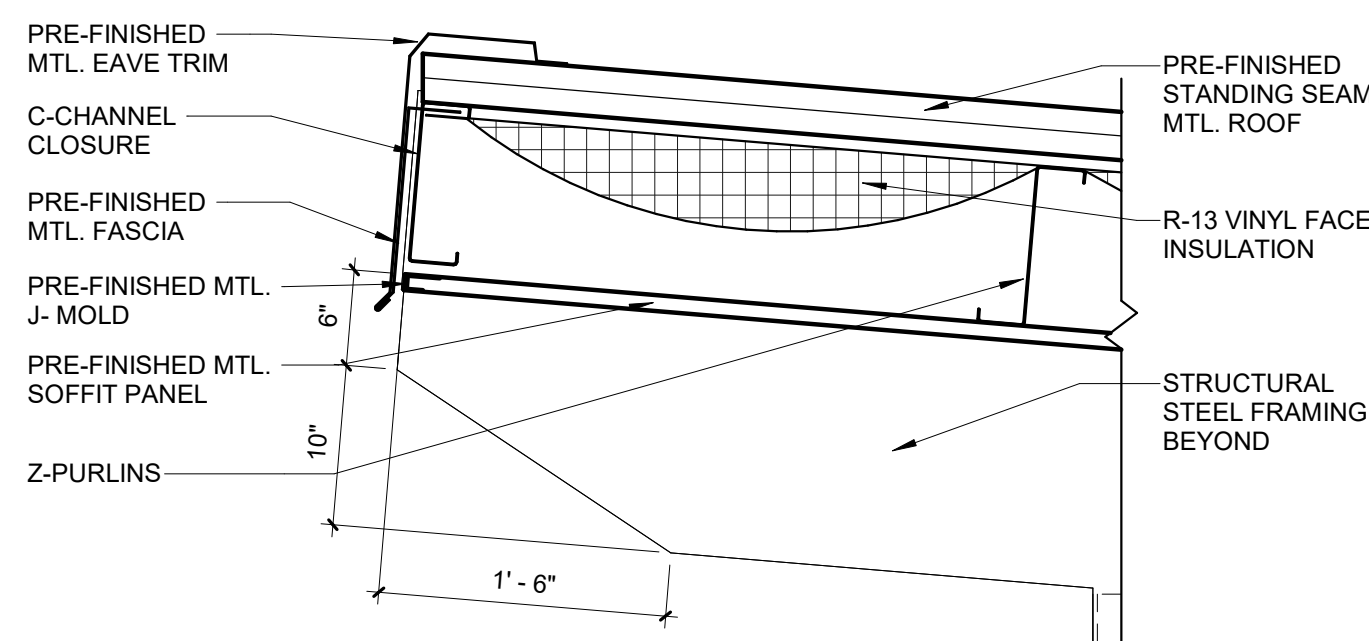
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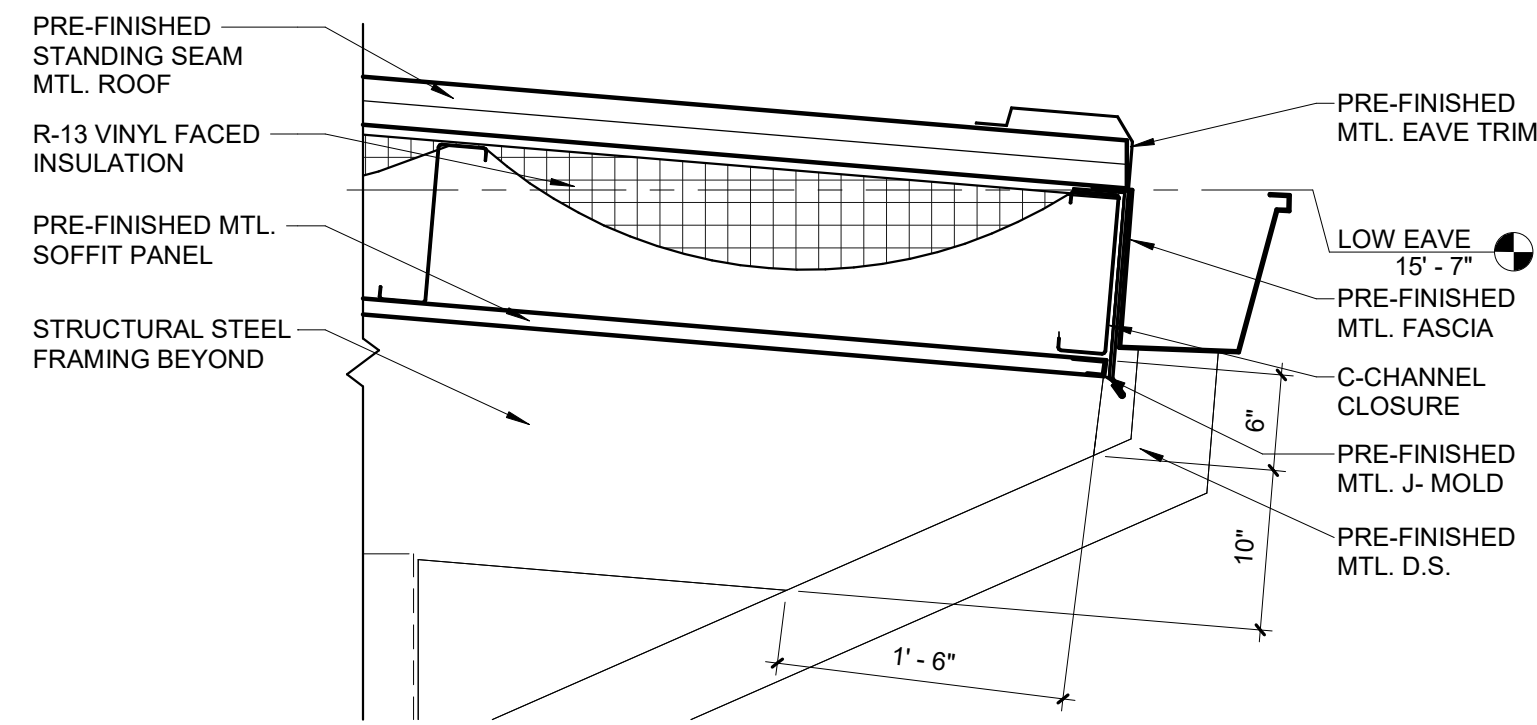
Date: 2025
Project No.: 25-WM0039
File Name:
DESCRIPTION:
FLOOR PLAN



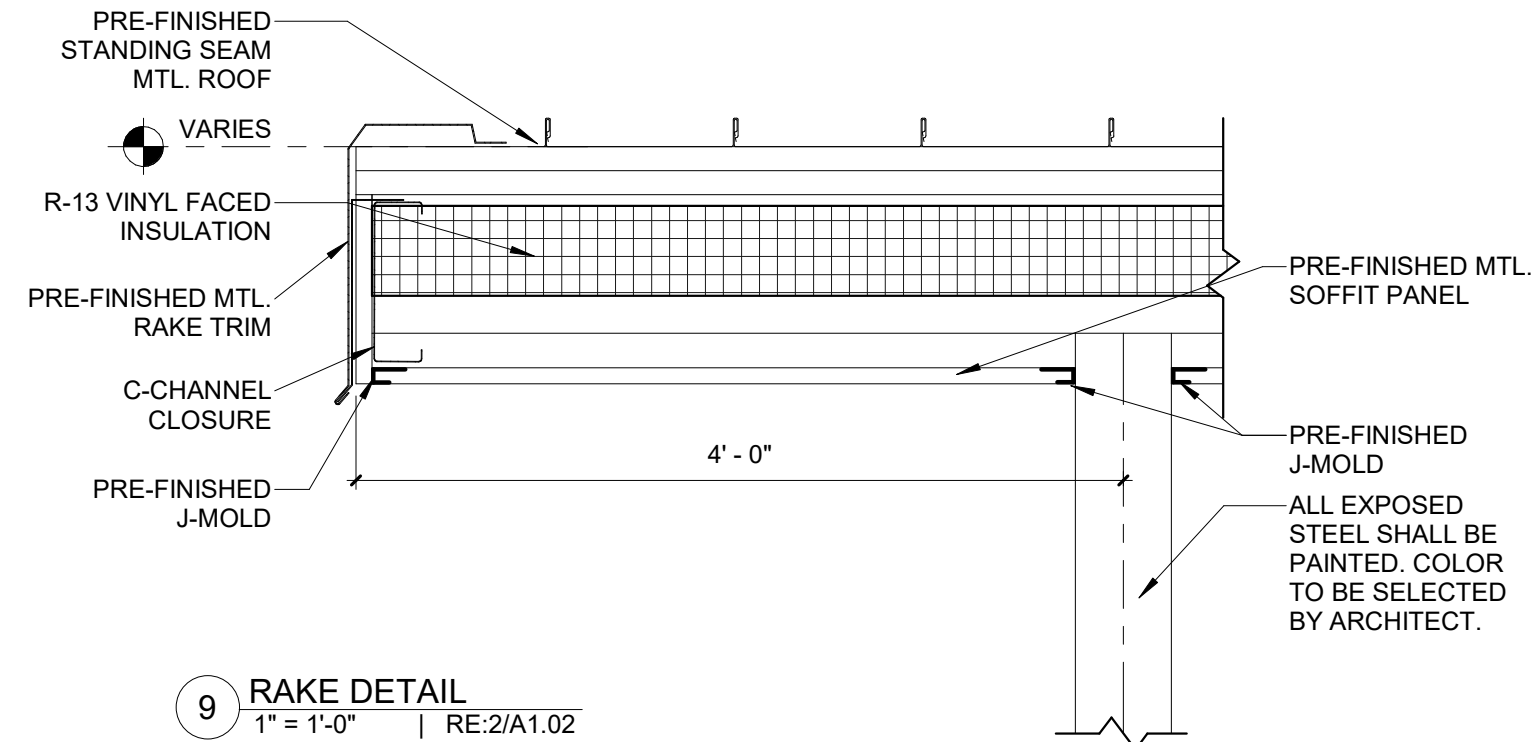
1 DRIVE THROUGH CANOPY FLOOR PLAN
3/16" = 1'-0" | RE:1/A1.00



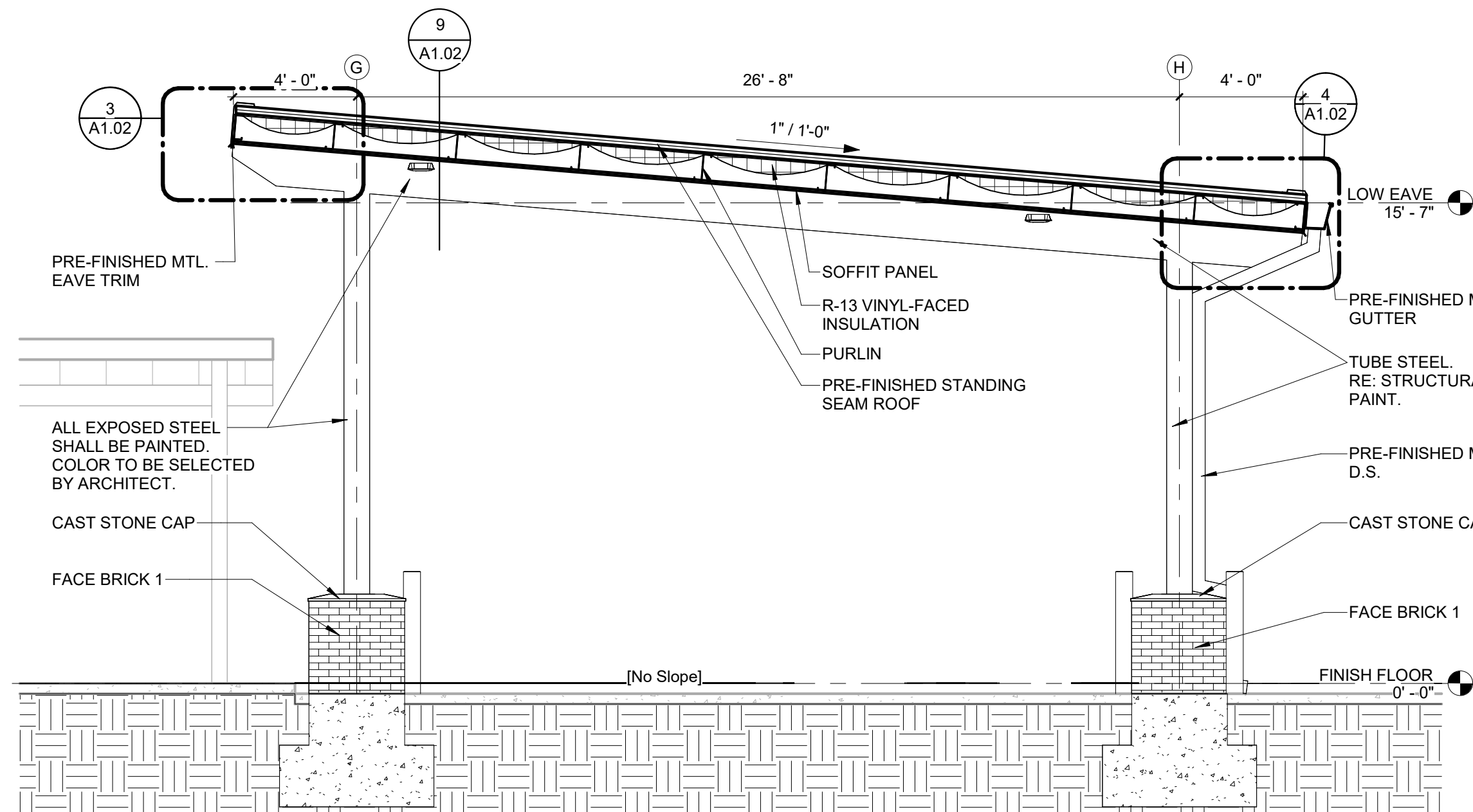
3 HIGH EAVE DETAIL
1" = 1'-0" | RE:2/A1.02



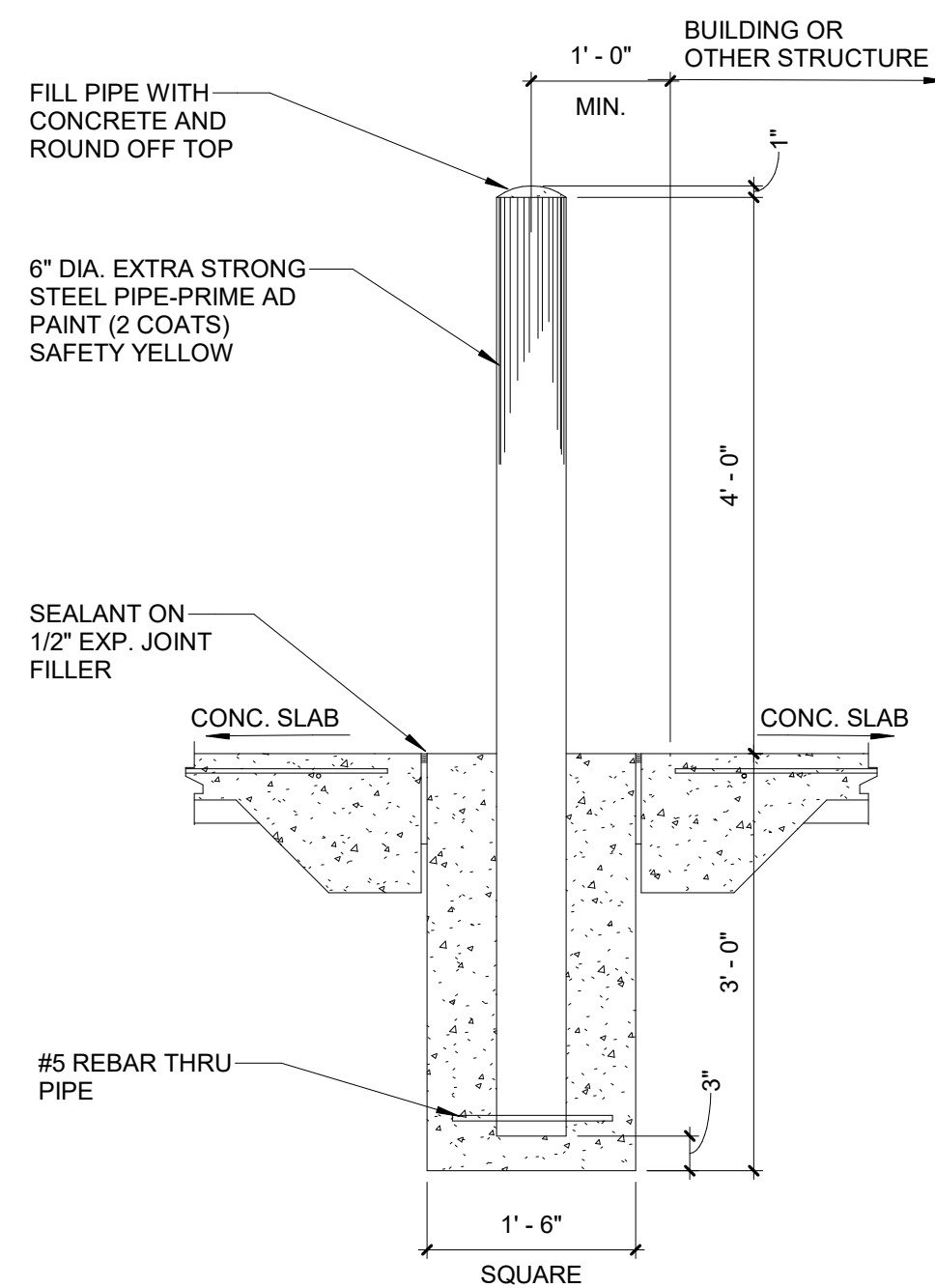
4 LOW EAVE DETAIL
1" = 1'-0" | RE:2/A1.02



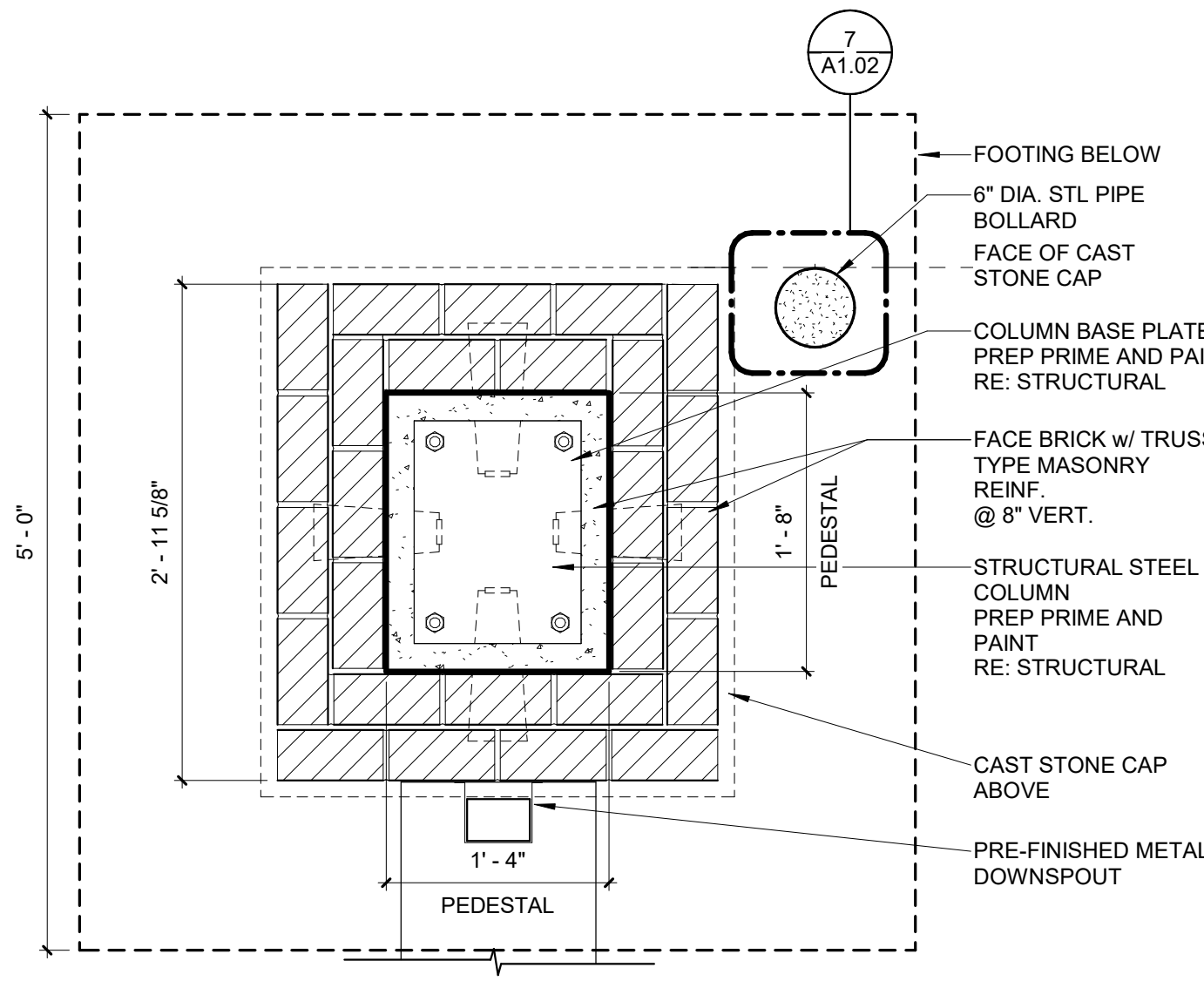
9 RAKE DETAIL
1" = 1'-0" | RE:2/A1.02



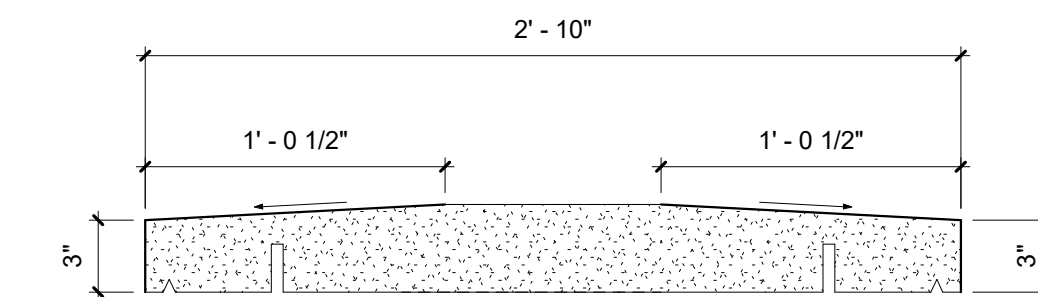
2 DROP OFF CANOPY SECTION
1/4" = 1'-0" | RE:1/A1.02



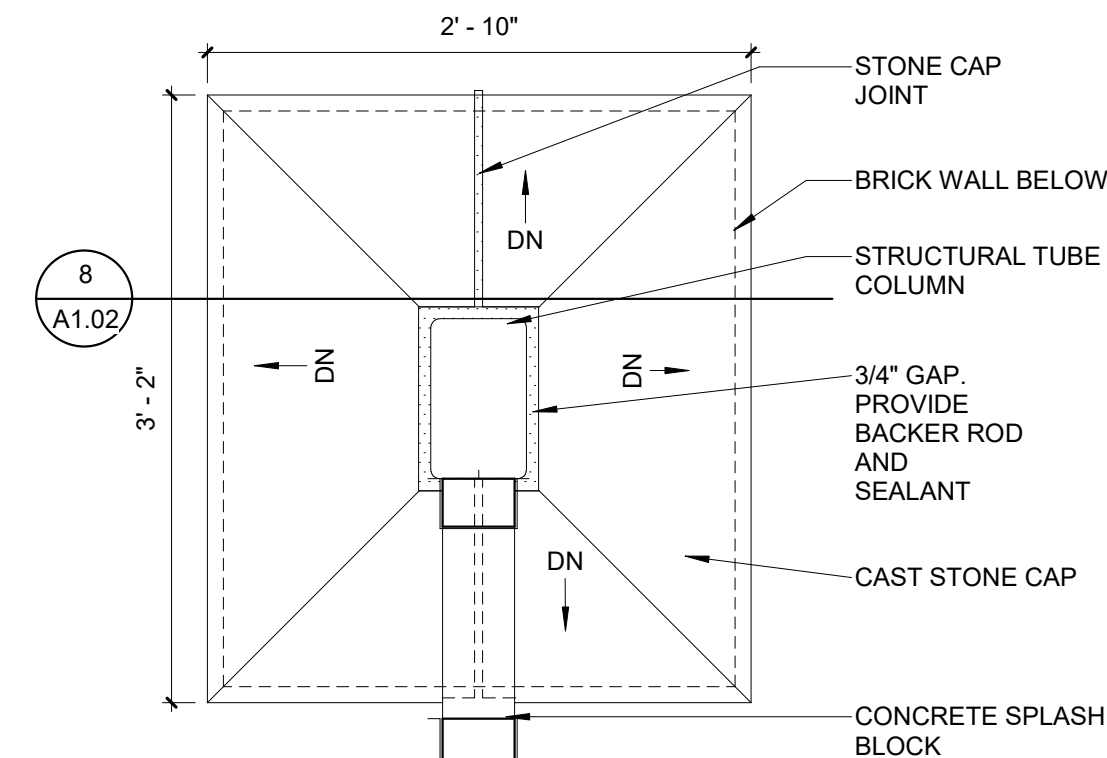
7 PIPE BOLLARD
3/4" = 1'-0" | RE:5/A1.02



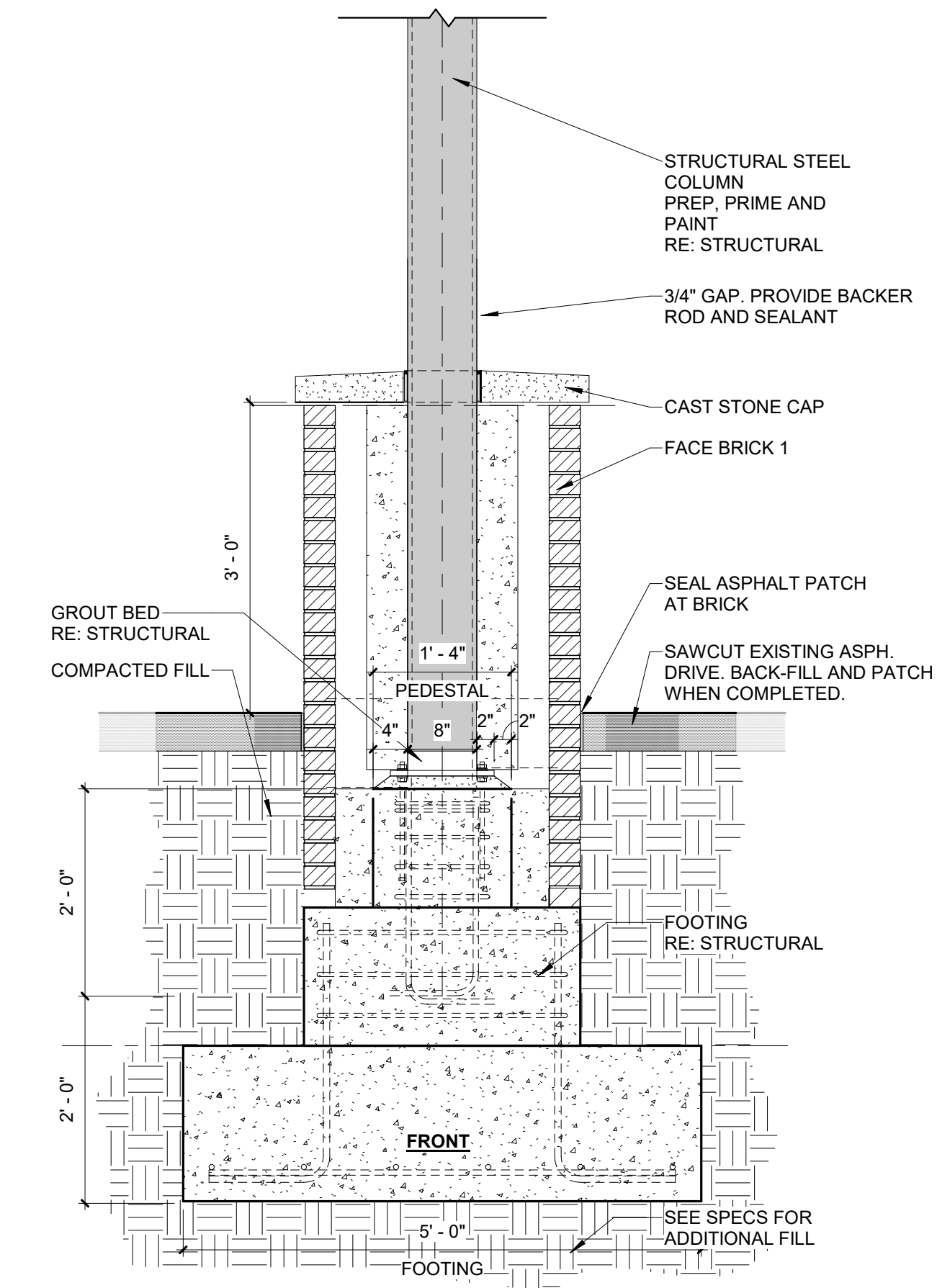
5 COLUMN DETAIL
1" = 1'-0" | RE:1/A1.01



8 STONE CAP DETAIL
1 1/2" = 1'-0" | RE:6/A1.02



6 STONE CAP DETAIL
1" = 1'-0" | RE:1/A1.02



10 COLUMN SECTION
3/4" = 1'-0"

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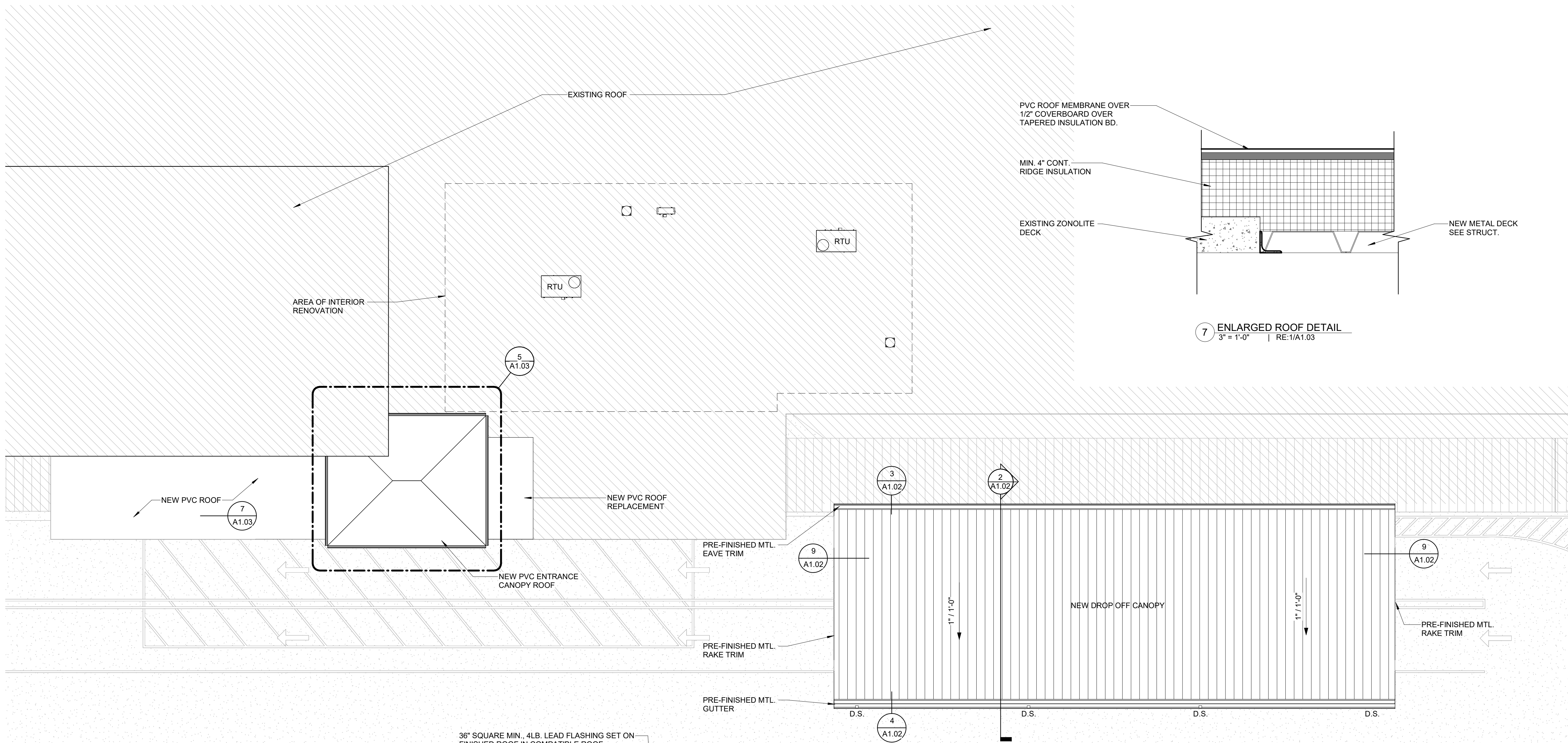
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Project No.: 25-WM0039

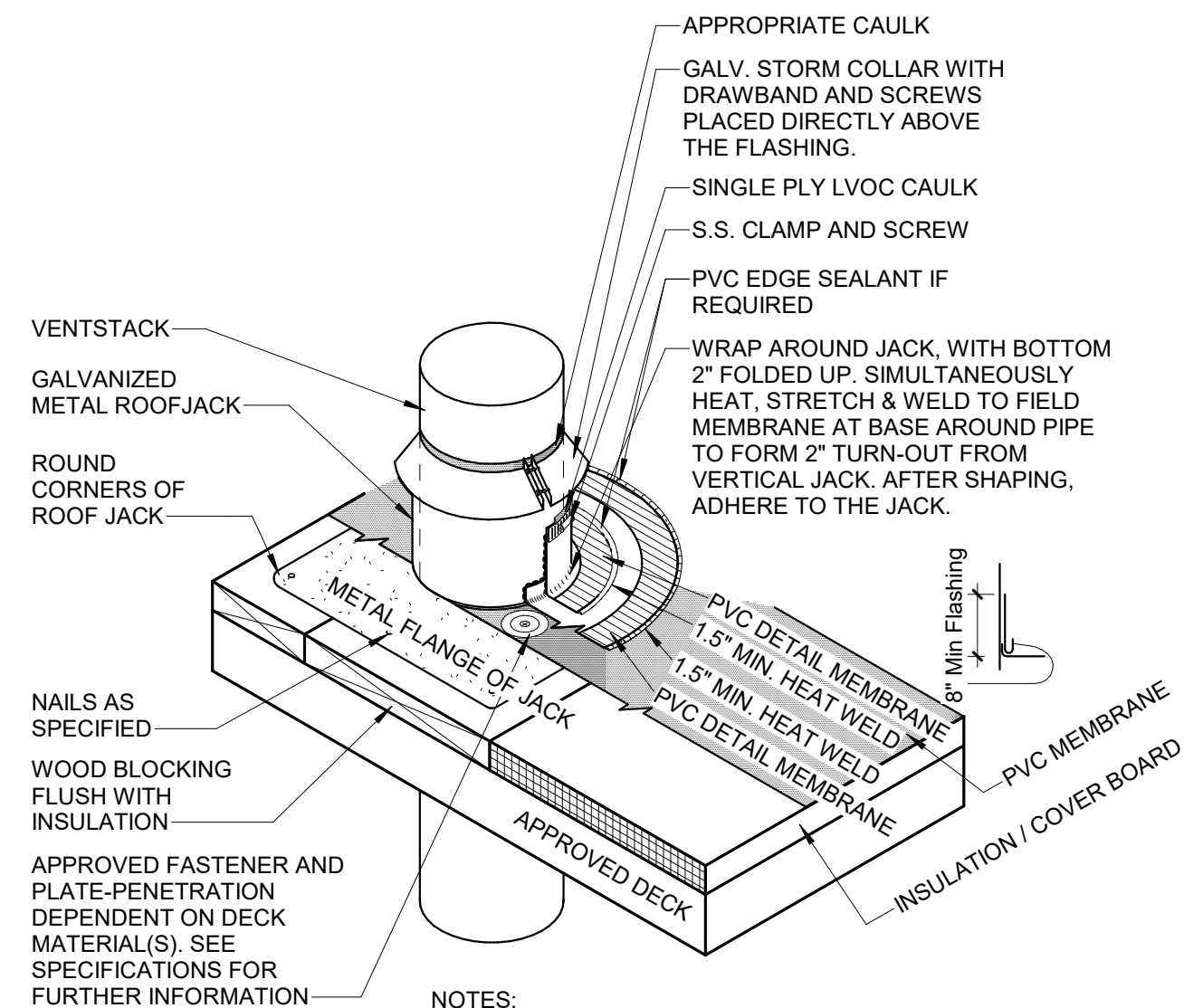
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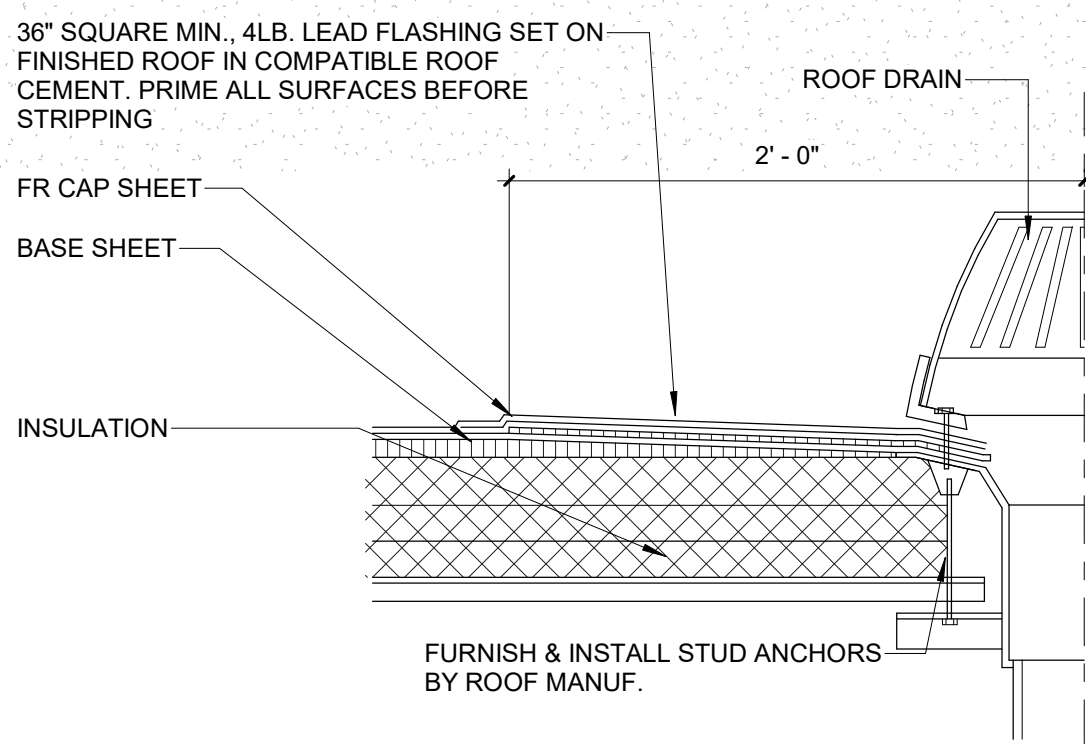
BUS CANOPY FLOOR PLAN



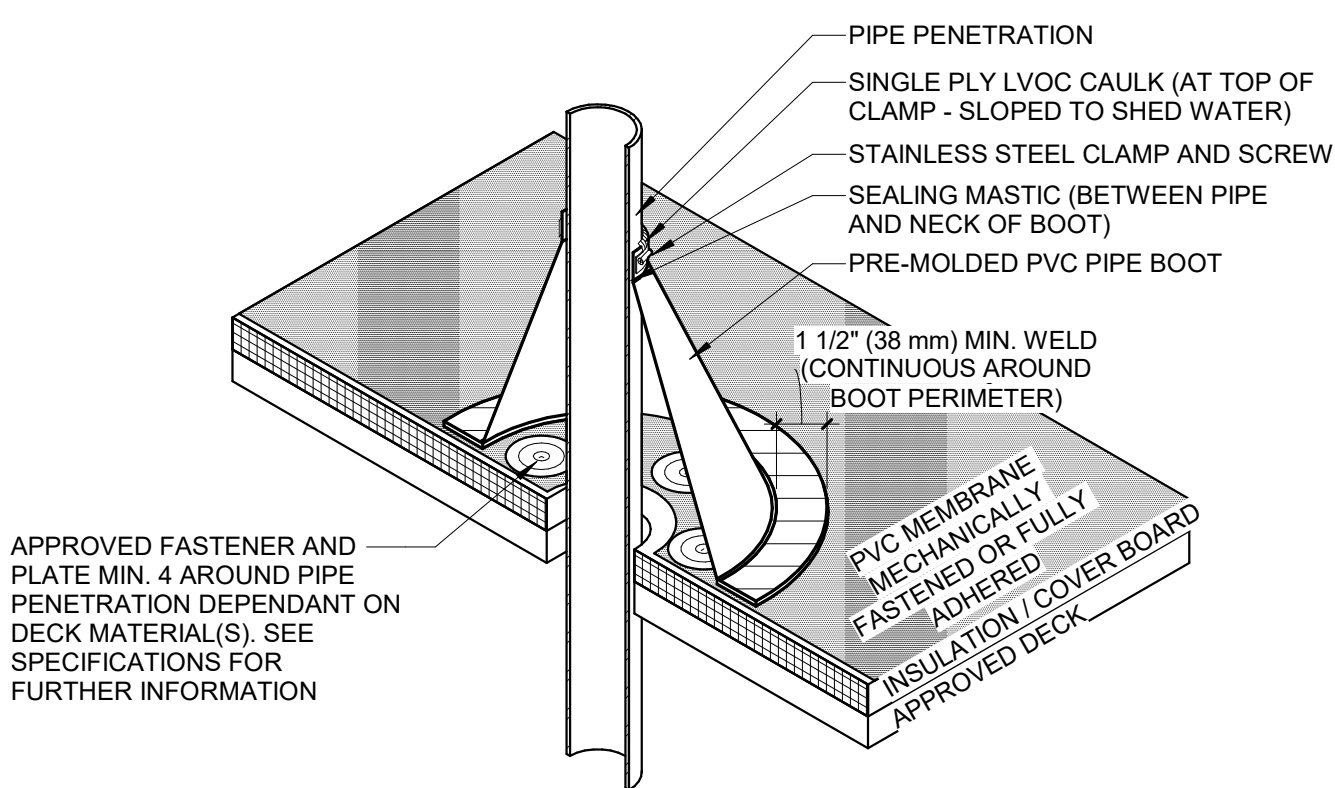
1 ROOF PLAN
1" = 10'-0"



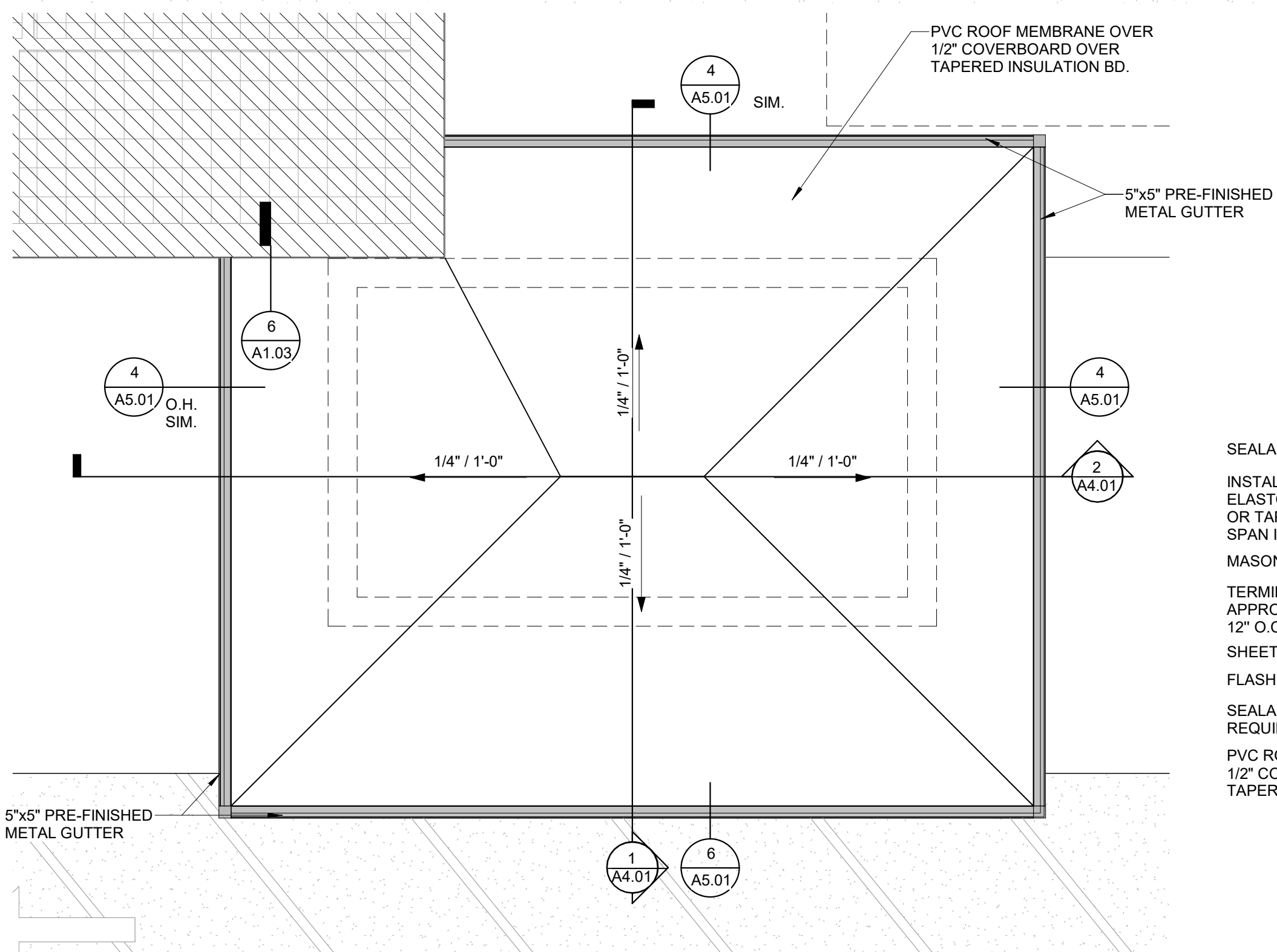
2 VENT PIPE TYP.
1" = 1'-0"



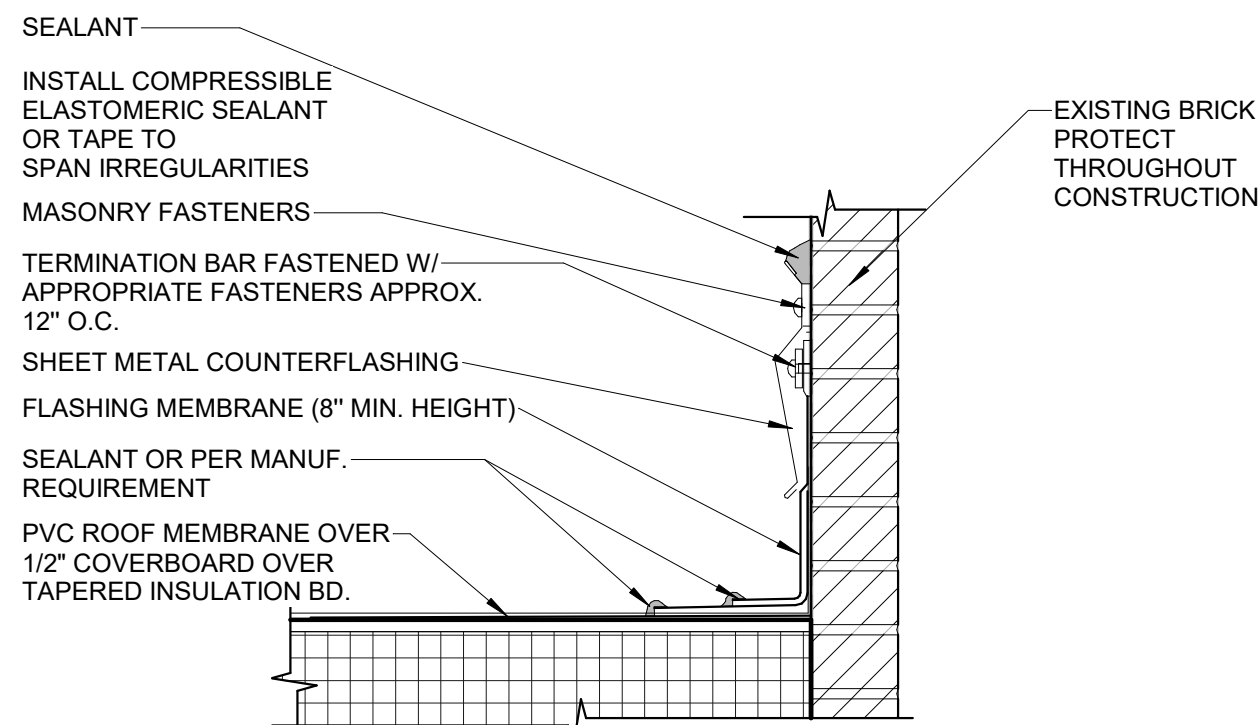
3 ROOF DRAIN TYP.
1 1/2" = 1'-0"



4 TPO PIPE BOOT TYP.
1" = 1'-0"



5 ENTRANCE CANOPY ROOF PLAN
1/4" = 1'-0" | RE:1/A1.03



6 ENLARGED DETAIL
1 1/2" = 1'-0" | RE:5/A1.03

LEGEND:

- PVC ROOFING SYSTEM
- STANDING SEAM ROOF
- GUTTER
- EXISTING TO REMAIN
- RTU ROOF TOP UNIT
- D.S. DOWNSPOUT

GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY ALL ROOF SLOPES, DRAINAGE PATTERNS, AND ROOF PENETRATIONS BEFORE BEGINNING INSTALLATION.
- ALL ROOFING MATERIALS AND SYSTEMS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND WARRANTIES.
- THE CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS, INCLUDING BUT NOT LIMITED TO PLUMBING VENTS, HVAC UNITS, AND ELECTRICAL CONDUITS, BEFORE INSTALLATION.
- ROOF INSULATION AND VAPOR BARRIERS MUST BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- ALL FLASHING, PARAPETS, AND EXPANSION JOINTS MUST BE INSTALLED PER DETAILS SHOWN IN THE CONSTRUCTION DOCUMENTS.
- THE CONTRACTOR SHALL ENSURE THAT ALL ROOFTOP EQUIPMENT IS PROPERLY SECURED AND INSTALLED WITH ADEQUATE STRUCTURAL SUPPORT.
- ROOF DRAINS, SCUPPERS, AND GUTTERS SHALL BE INSTALLED AND TESTED TO ENSURE PROPER DRAINAGE AND FUNCTION.
- TEMPORARY PROTECTION OF COMPLETED ROOFING AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE.
- PENETRATIONS MADE AFTER ROOFING INSTALLATION SHALL BE PROPERLY SEALED AND FLASHED PER MANUFACTURER REQUIREMENTS.
- FINAL ROOF-INSTALLATION SHALL BE INSPECTED BY THE ROOFING MANUFACTURER AND OWNER'S REPRESENTATIVE FOR WARRANTY COMPLIANCE.
- ALL TAPERING INSULATION TO SLOPE 1/4"/12" AT MINIMUM.

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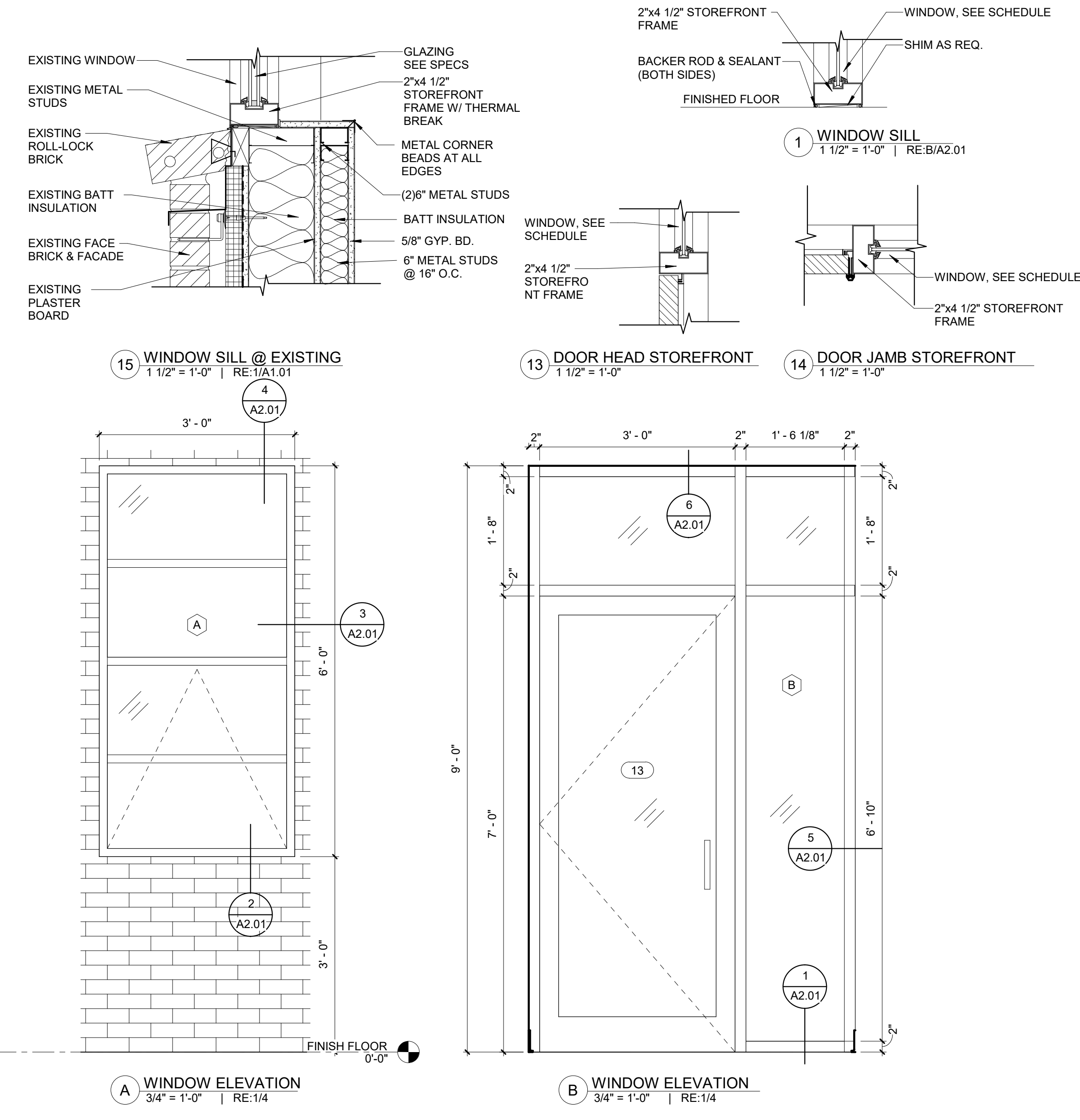
DESCRIPTION:

ROOF PLAN

Room Finish Schedule									
NUMBER	ROOM NAME	FLOOR	BASE	WALLS				CEILING TYPE	CEILING HT.
				NORTH	EAST	SOUTH	WEST		
100	RECEPTION	LVT	RB	PNT-1	CWG-1	PNT-1	PNT-1	ACT-1	9'-0"
101	SENSORY ROOM	LVT	RB	PNT-1	PNT-1	PNT-1	WG-3	ACT-1	9'-0"
102	PANTRY/SUPPLIES	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
103	CONFERENCE ROOM	LVT	RB	PNT-1	PNT-1	WW	PNT-1	ACT-1	9'-0"
104	WORK AREA	LVT	RB	PNT-1	PNT-1	CWG-2	PNT-1	ACT-1	9'-0"
105	OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
106	SUPPLY	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
107	DATA CLOSET	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
108	MEP	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
109	VICE PRINCIPAL'S OFFICE	LVT	RB	WW	PNT-1	CWG-3	PNT-1	ACT-1	9'-0"
110	CLOSET	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
111	CLOSET	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
112	BREAK ROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
113	NURSE'S OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
114	ASSESSMENT ROOM	LVT	RB	WG-6	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
115	PRINCIPAL'S OFFICE	LVT	RB	PNT-1/WW	CWG-3	PNT-1	PNT-1	ACT-1	9'-0"
116	RR	PFT	PTB	PWT-1	PWT-1	PWT-1	PWT-1	ACT-2	9'-0"
117	RR	PFT	PTB	PWT-1	PWT-1	PWT-1	PWT-1	ACT-2	9'-0"
118	RR	PFT	PTB	PWT-1	PWT-1	PWT-1	PWT-1	ACT-2	9'-0"
119	CORRIDOR	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
120	CORRIDOR	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
121	VESTIBULE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"
122	EXISTING CORRIDOR	ETR	ETR/RB	ETR	ETR	CWG-4/ETR	ETR	ETR	

Grand total: 23

FINISHES				GENERAL NOTES	
FLOORS - REFERENCE FLOOR PATTERN PLAN		WALLS	ONLY REPRESENTS FINISH LAYER OF WALL ASSEMBLY UNLESS NOTED OTHERWISE		1. ALL FINISH COLORS ARE TO BE APPROVED BY OWNER AND ARCHITECT ONCE PHYSICAL SAMPLES ARE RECEIVED FROM CONTRACTOR FOR EVERY MATERIAL IN THE PROJECT. EVERY MATERIAL COLOR IN THE PROJECT WILL BE APPROVED AT ONE TIME. THE CONTRACTOR'S DELAY IN PROVIDING ALL SUBMITTAL SAMPLES FOR REVIEW AND APPROVAL WILL NOT CONSTITUTE AN EXTENSION OF PROJECT TIME. THE ARCHITECT WILL NOT APPROVE ONE COLOR WITHOUT ALL MATERIAL SAMPLES FOR CONSIDERATION. A COLOR BOARD WILL BE PRODUCED FOR THE OWNER TO APPROVE ALL COLORS AT ONE TIME. 2. ALL EXPOSED STRUCTURAL STEEL AT WALLS & CEILINGS ARE TO BE PAINTED. SEE SPECS.
LVT	LUXURY VINYL TILE - SEE SPECIFICATIONS	GYP 1	5/8" GYPSUM BOARD - TAPE, FLOAT, AND PAINT - SEE SPECIFICATIONS		
PFT	PROCELAIN FLOOR TILE - SEE SPECIFICATIONS	PWT-1	PORCELAIN WALL TILE 1 - SEE SPECIFICATIONS		
		CWG -1	WALL GRAPHIC 1 - SEE SPECIFICATIONS NOTE: GYP TO BE INSTALLED IN ALL LOCATIONS WHERE WALLCOVERINGS ARE INDICATED.		
BASE		CWG -2	WALL GRAPHIC 2 - SEE SPECIFICATIONS NOTE: GYP TO BE INSTALLED IN ALL LOCATIONS WHERE WALLCOVERINGS ARE INDICATED.		
RB	4" RUBBER BASE - SEE SPECIFICATIONS	CWG -3	WALL GRAPHIC 3 - SEE SPECIFICATIONS NOTE: GYP TO BE INSTALLED IN ALL LOCATIONS WHERE WALLCOVERINGS ARE INDICATED.		
PTB	PORCELINE TILE BASE - SEE SPECIFICATIONS	CWG -4	WALL GRAPHIC 4 - SEE SPECIFICATIONS NOTE: IMPACT RESISTANT GYP TO BE INSTALLED IN ALL LOCATIONS WHERE WALLCOVERINGS ARE INDICATED.		
CEILING		WW	WOOD SLAT WALL - SEE SPECIFICATIONS		
ACT 1	2' x 2' ACOUSTICAL TILE - SEE SPECIFICATIONS				
ACT 2	2' x 2' WASHABLE ACOUSTICAL TILE - SEE SPECIFICATIONS				



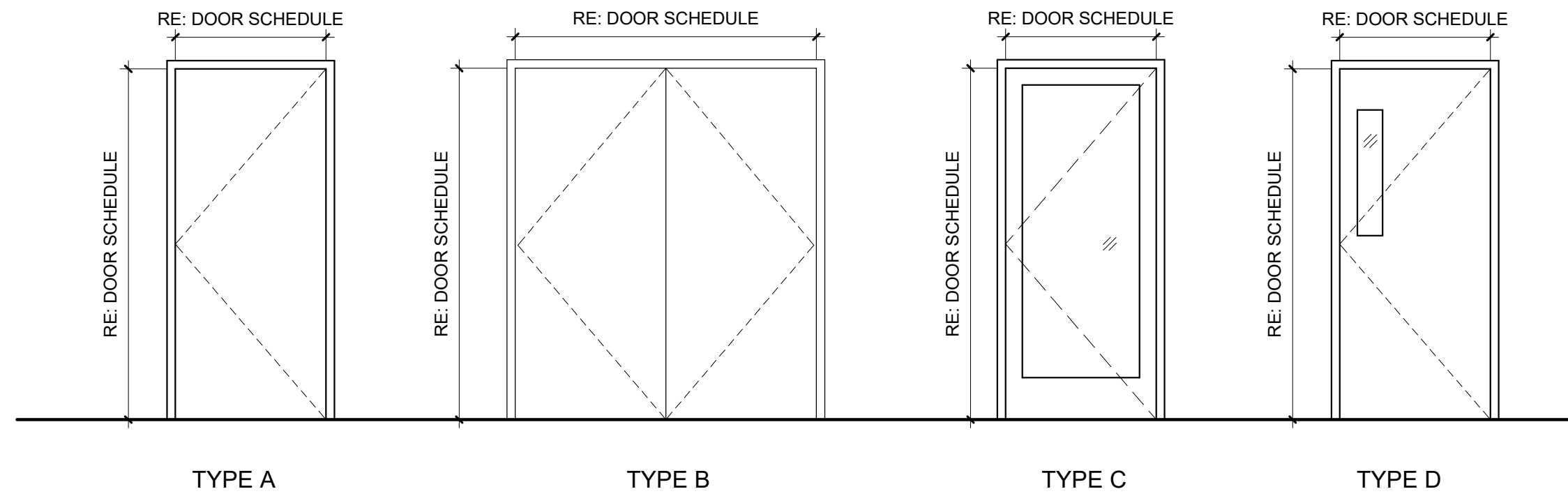
GENERAL NOTES

1. ALL DOORS IN SMOKE PARTITIONS, SMOKE BARRIERS & FIRE WALLS SHALL BE PROVIDED WITH DOOR CLOSERS AND SHALL NOT BE UNDERCUT. CLEARANCE FOR DOOR OPERATION SHALL BE 1/8" MAX.
2. ALL DOORS IN 1 HOUR RATED WALLS SHALL BE 45 MIN. RATED.
3. INSTALL SEALANT AROUND PERIMETER ON ALL EXTERIOR OPENINGS WHERE RECOMMENDED BY MANUFACTURER.
4. ALL CMU BOND BEAMS BY STRUCTURAL ENGINEER. VERIFY IF SINGLE AND DOUBLE BOND BEAMS.
5. SEE HARDWARE SCHEDULE FOR MORE INFORMATION.

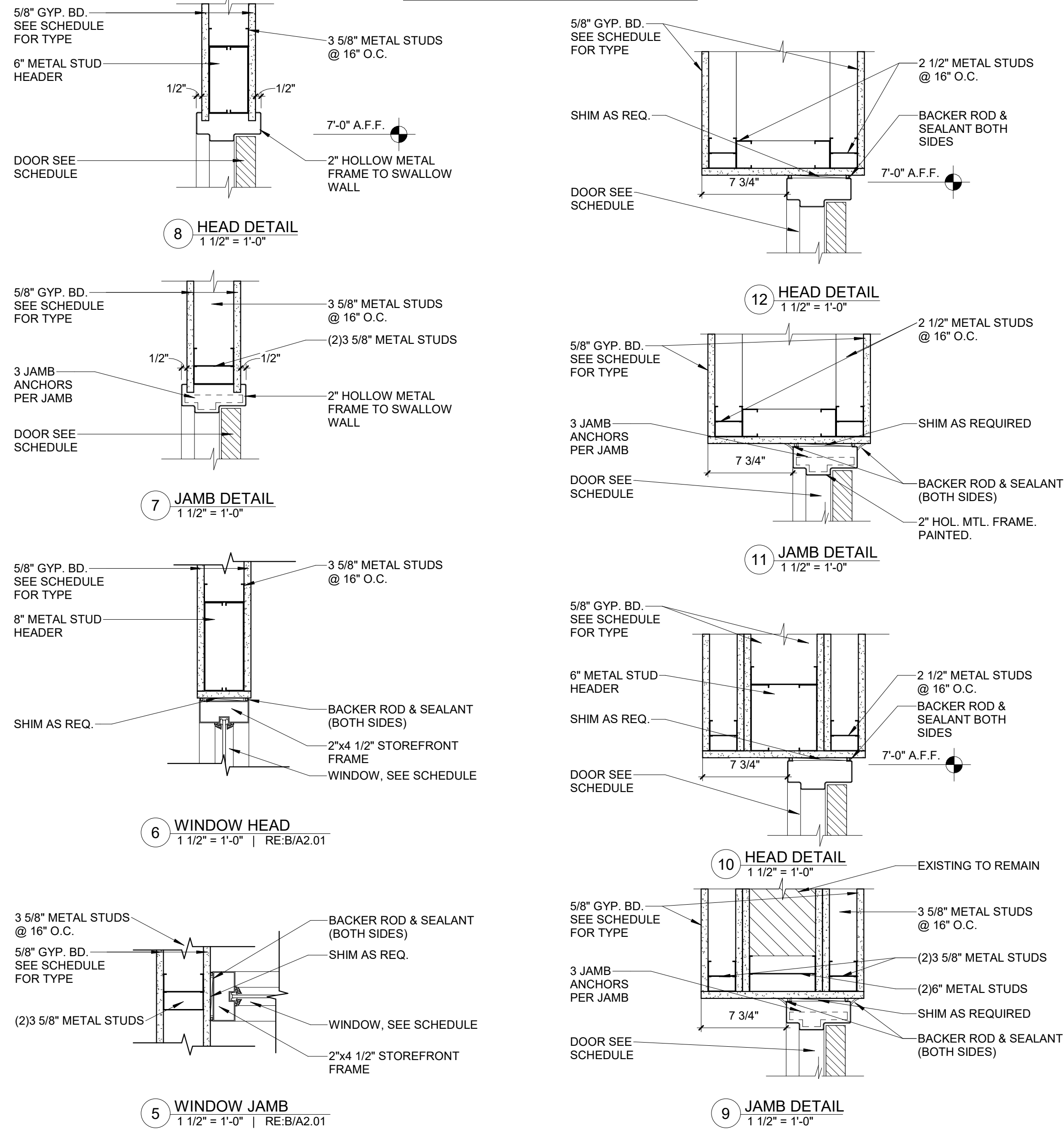
Door Schedule

MARK	WIDTH	HEIGHT	DOOR MATERIAL	FRAME MATERIAL	DETAIL		ELEV.	FIRE RATING	ACCESS CONTROL	NOTES
					JAMB	HEAD				
1	3' - 0"	7' - 0"	GLASS	ALUM.	7/A2.01	8/A2.01	C	20min		
2	3' - 0"	7' - 0"	GLASS	ALUM.	7/A2.01	8/A2.01	C			
3	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	D			
4	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	D			
5	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	A			
6	3' - 0"	7' - 0"	P. LAM.	H.M.	9/A2.01	10/A2.01	D			
7	6' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	B			
8	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	A			
9	3' - 0"	7' - 0"	P. LAM.	H.M.	9/A2.01	10/A2.01	D	20min		
10	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	A			
11	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	A			
12	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	D			
13	3' - 0"	7' - 0"	GLASS	ALUM.			C			
14	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	D			
15	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	A			
16	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	A			
17	3' - 0"	7' - 0"	P. LAM.	H.M.	9/A2.01	10/A2.01	A			
18	3' - 0"	7' - 0"	P. LAM.	H.M.	9/A2.01	10/A2.01	A			
19	3' - 0"	7' - 0"	P. LAM.	H.M.	12/A2.01	11/A2.01	D			
20	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	D			
21	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	D			
22	3' - 0"	7' - 0"	P. LAM.	H.M.	9/A2.01	10/A2.01	D	20min		
23	3' - 0"	7' - 0"	P. LAM.	H.M.	7/A2.01	8/A2.01	A			

Grand total: 23

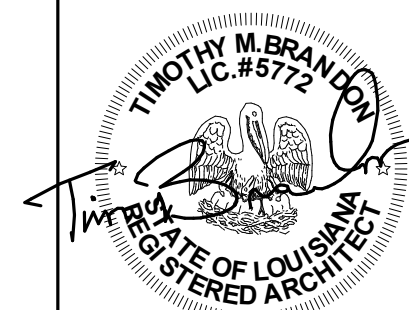


DOOR ELEVATIONS



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Date: 2025

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File Name:

DESCRIPTION:

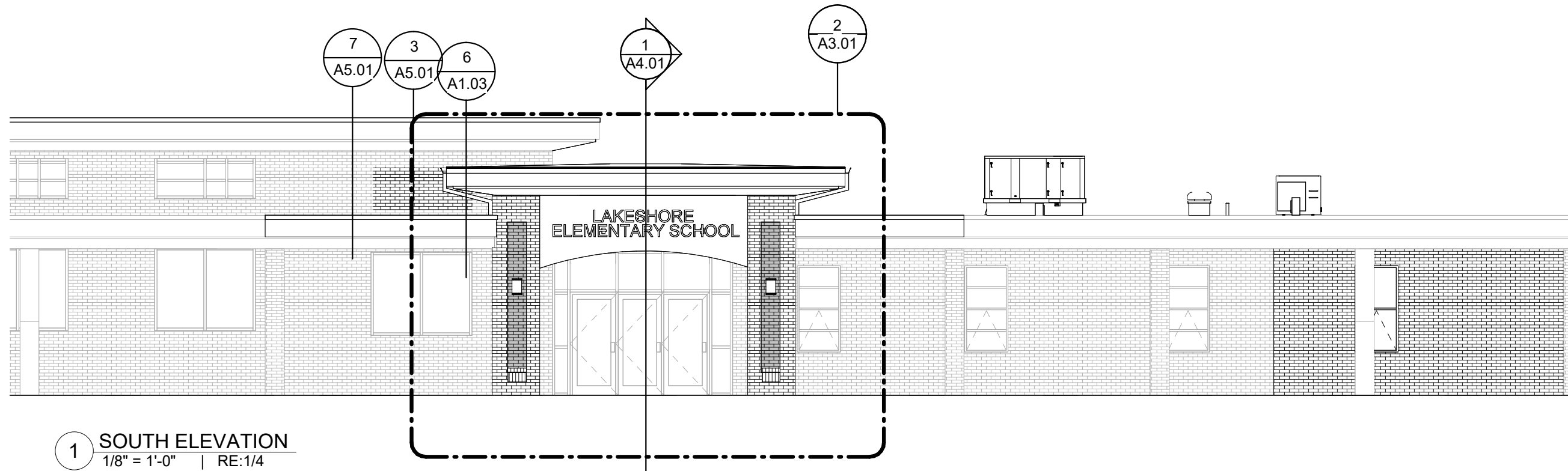
ROOM FINISH SCHEDULE

GENERAL NOTES

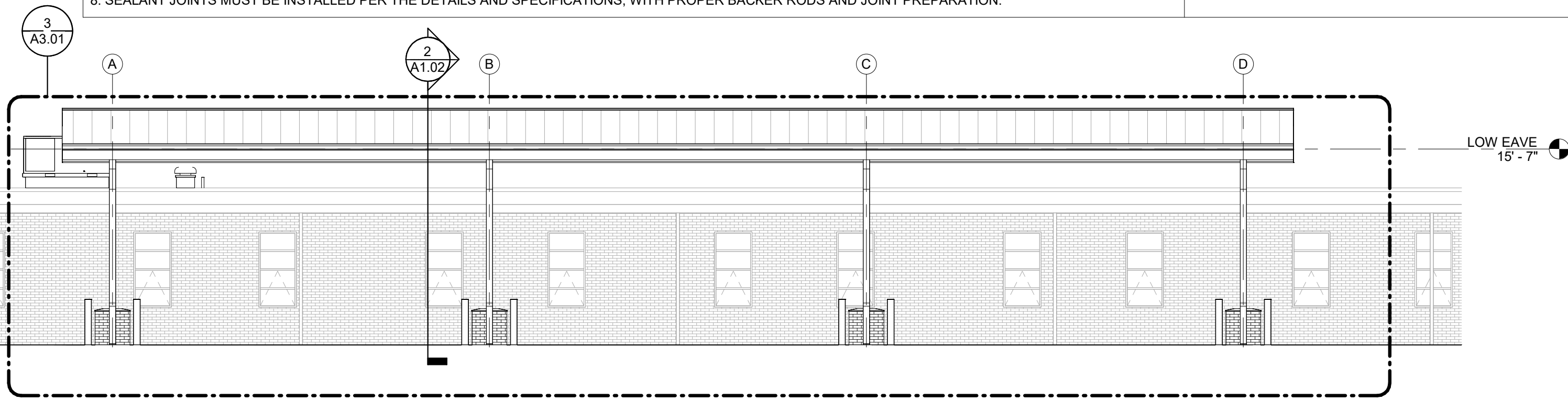
1. THE CONTRACTOR SHALL VERIFY ALL EXTERIOR MATERIAL TRANSITIONS AND ENSURE PROPER ALIGNMENT AND INSTALLATION PER THE APPROVED DRAWINGS.
2. ALL EXTERIOR CLADDING, INCLUDING MASONRY, STUCCO, METAL PANELS, AND SIDING, SHALL BE INSTALLED PER MANUFACTURER INSTRUCTIONS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL COORDINATE ALL EXTERIOR PENETRATIONS, INCLUDING ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS, TO ENSURE PROPER INTEGRATION WITH THE FAÇADE.
4. FLASHING AND WATERPROOFING DETAILS AROUND WINDOWS, DOORS, AND OTHER OPENINGS MUST BE INSTALLED PER APPROVED DETAILS AND SHOP DRAWINGS.
5. ALL EXPOSED FASTENERS, EXPANSION JOINTS, AND TRIM PIECES MUST BE INSTALLED PER THE DESIGN INTENT AND PROJECT SPECIFICATIONS.
6. EXTERIOR FINISHES SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE AND SHALL BE CLEANED PRIOR TO PROJECT COMPLETION.
7. THE CONTRACTOR SHALL ENSURE PROPER INSTALLATION OF EXTERIOR SUNSHADES, CANOPIES, AND DECORATIVE ELEMENTS IN COORDINATION WITH STRUCTURAL SUPPORTS.
8. SEALANT JOINTS MUST BE INSTALLED PER THE DETAILS AND SPECIFICATIONS, WITH PROPER BACKER RODS AND JOINT PREPARATION.

LEGEND

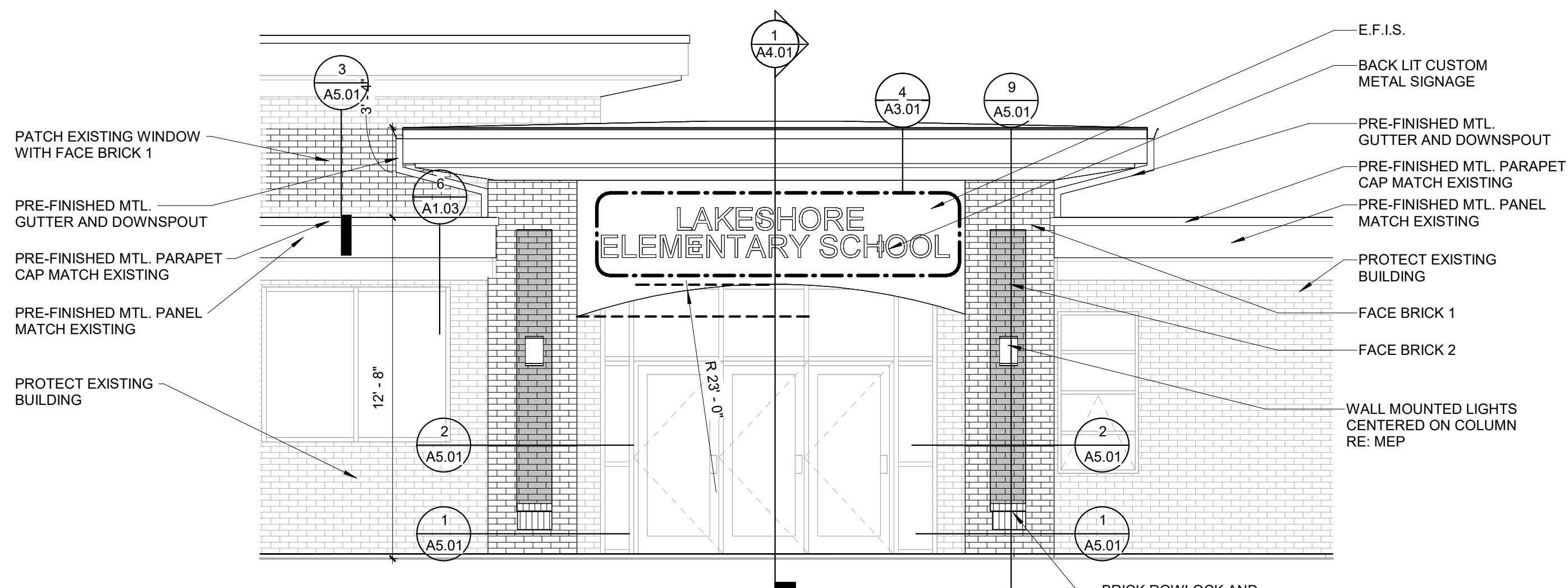
- FACE BRICK 1
- FACE BRICK 2
- STANDING SEAM MTL. ROOF



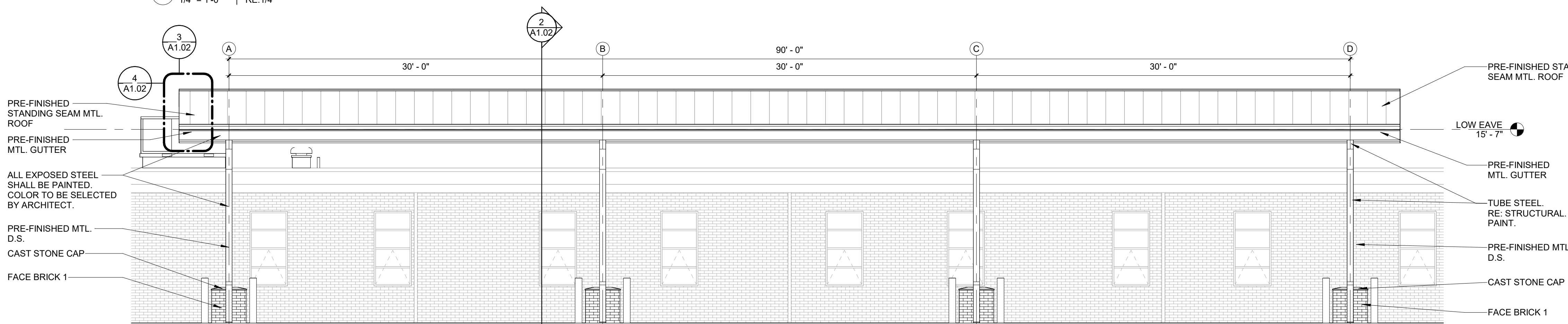
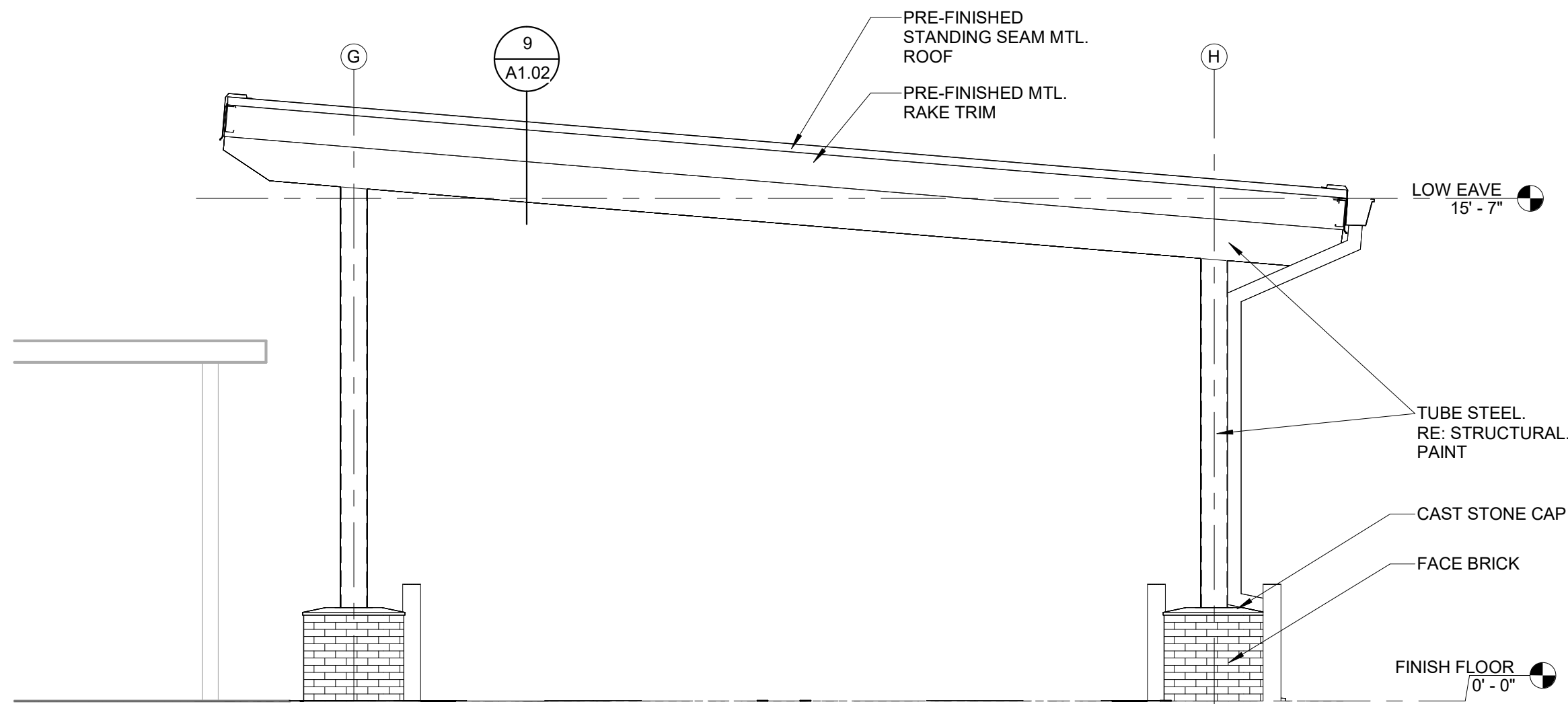
1 SOUTH ELEVATION
1/8" = 1'-0" | RE:1/4



5 DROP OFF CANOPY - WEST ELEVATION
1/4" = 1'-0" | RE:1/4



2 SOUTH ELEVATION - ENTRANCE CANOPY
1/4" = 1'-0" | RE:1/4



3 SOUTH ELEVATION - DROP OFF CANOPY
3/16" = 1'-0" | RE:1/4



4 ENLARGED SIGNAGE
3/4" = 1'-0" | RE:2/A3.01

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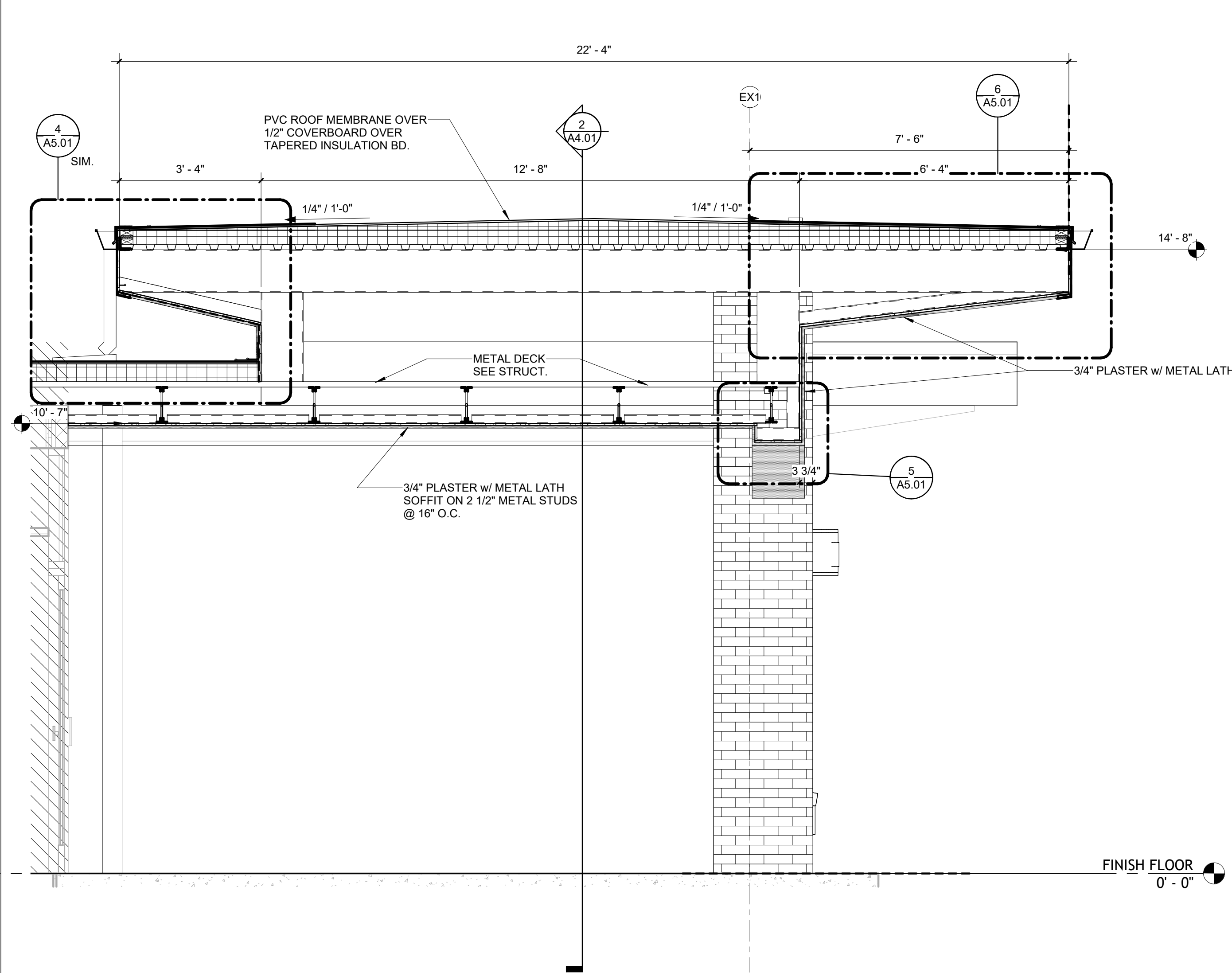
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Date: 2025

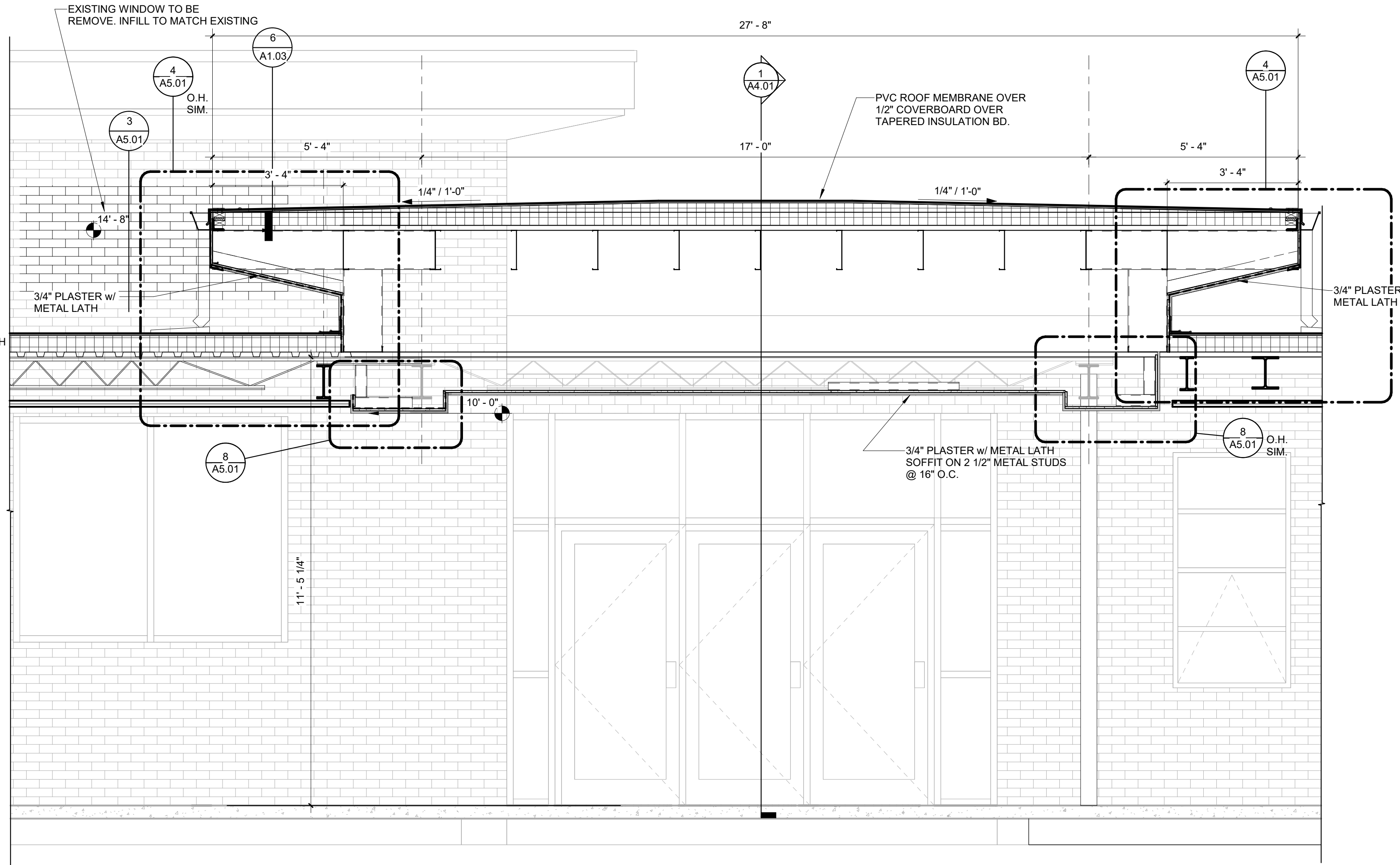
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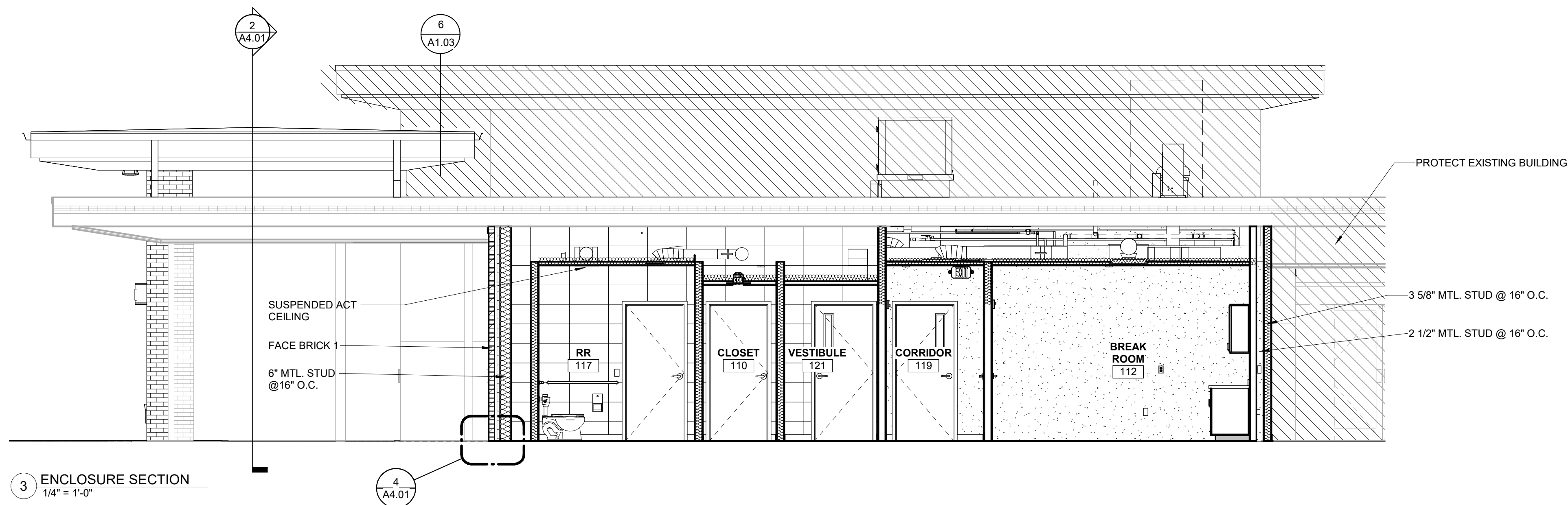
DESCRIPTION:
EXTERIOR
ELEVATIONS



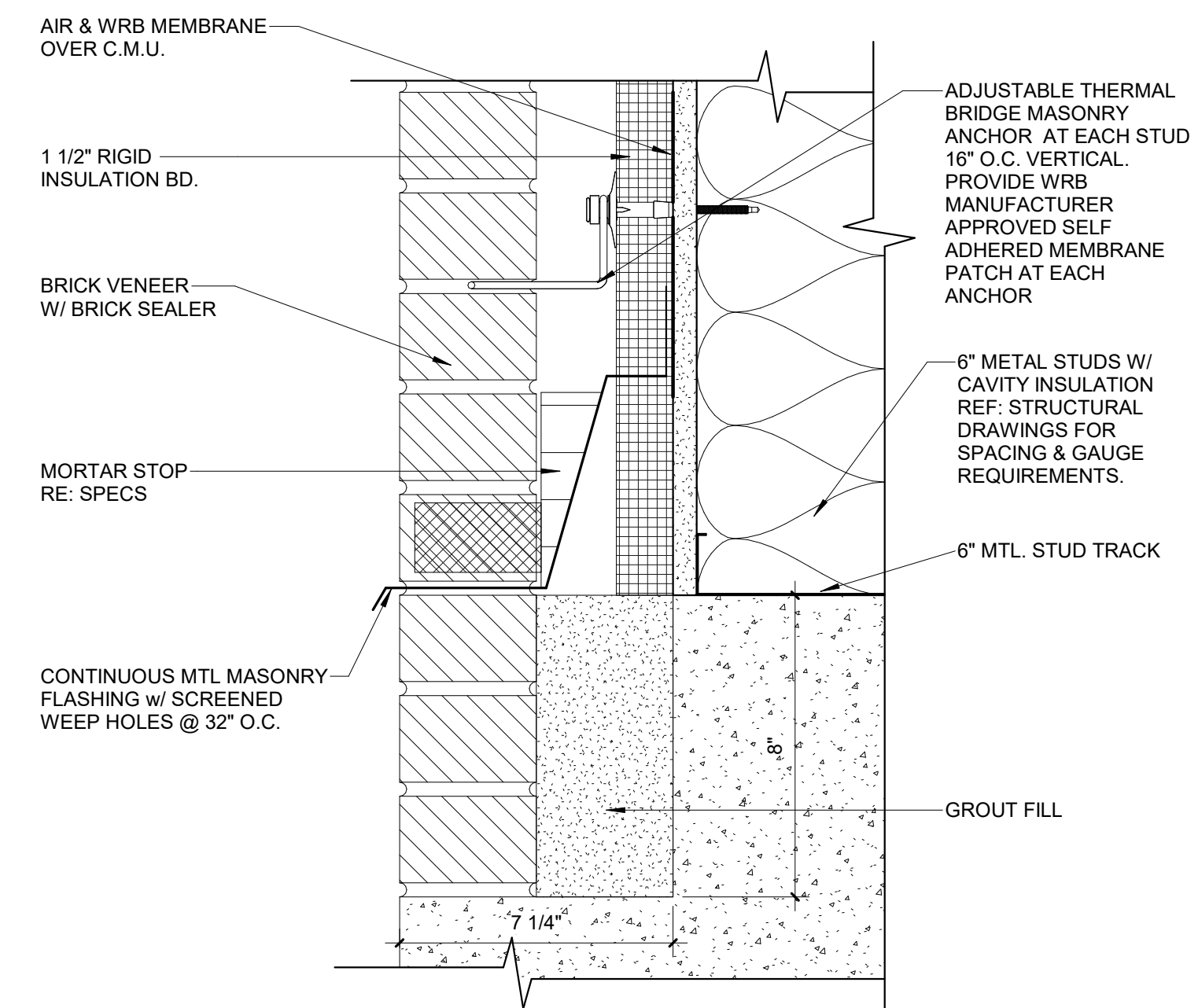
1 ENTRANCE CANOPY SECTION
1/2" = 1'-0" | RE:1/4



2 ENTRANCE CANOPY SECTION
1/2" = 1'-0" | RE:1/4



3 ENCLOSURE SECTION
1/4" = 1'-0"



4 ENLARGED WALL BASE DETAIL
3\"/>

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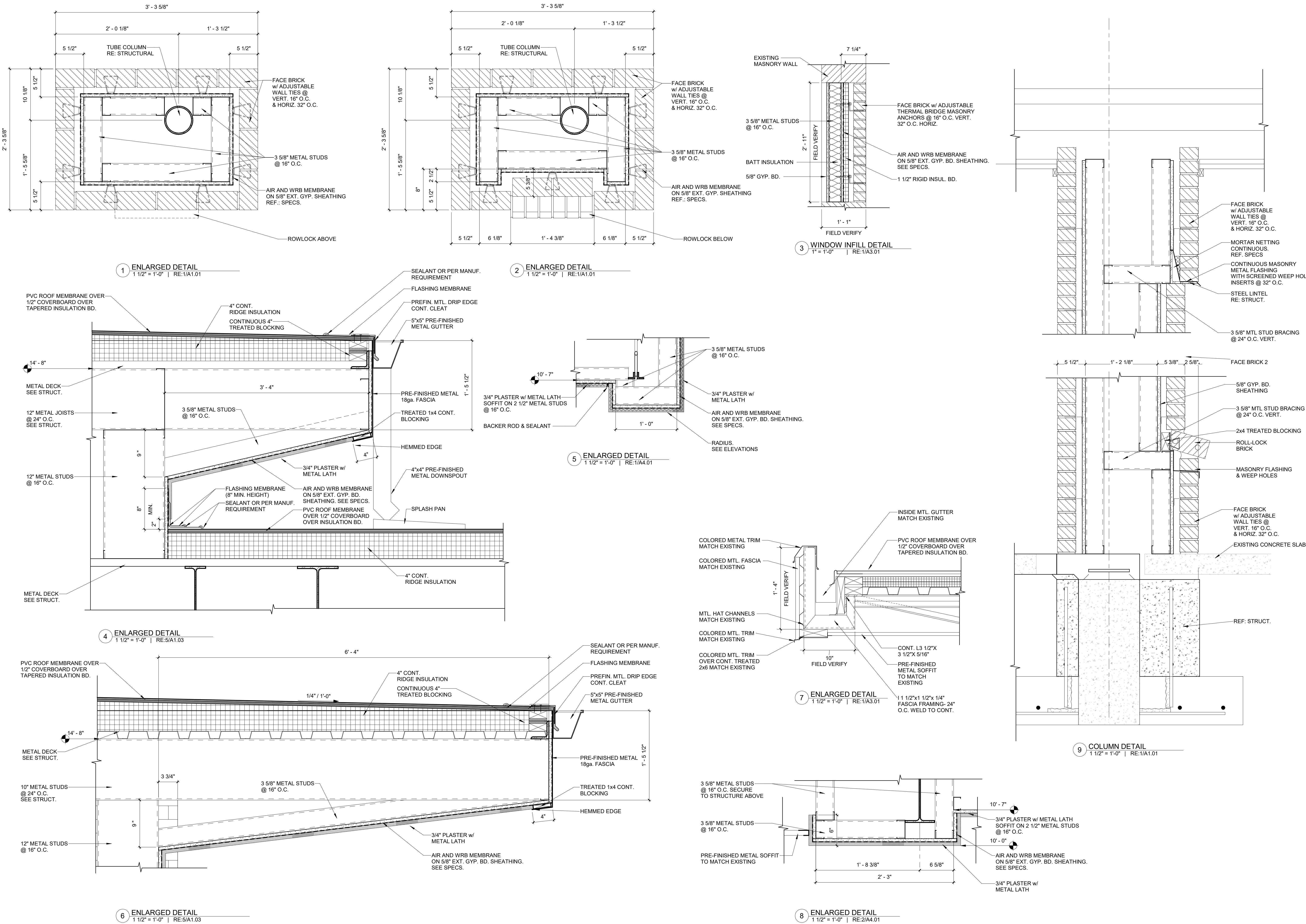
Date: 2025

Project No.: 25-WM0039

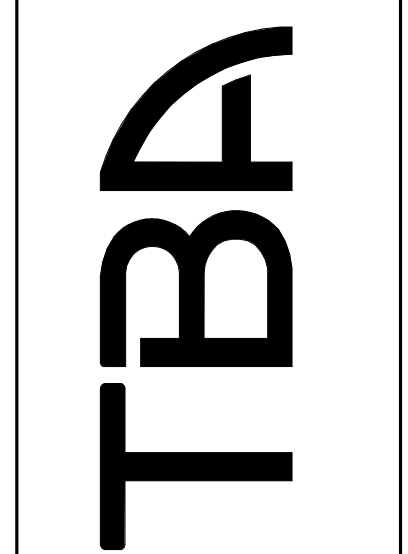
File Name:

DESCRIPTION:

BUILDING
SECTIONS



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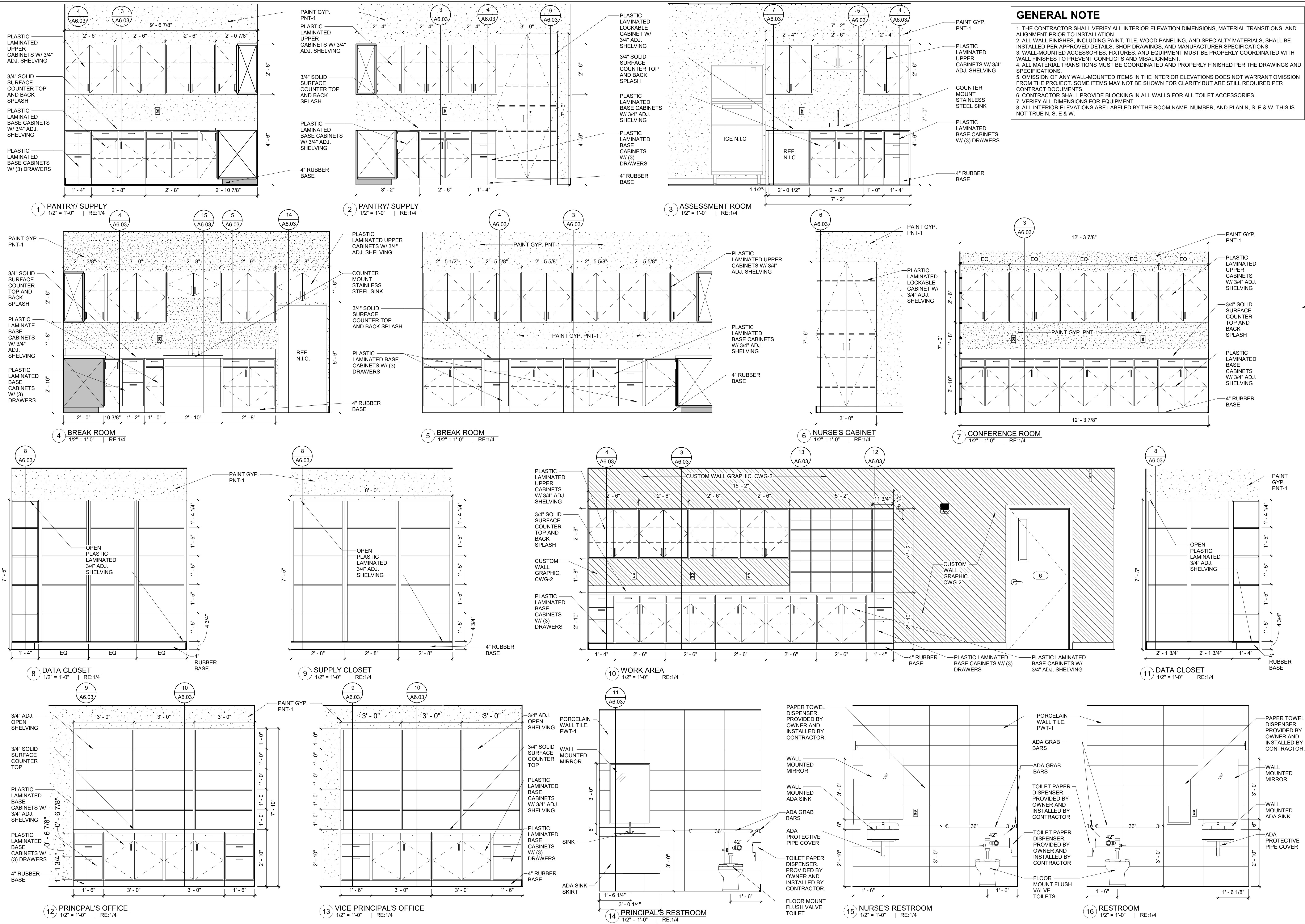
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Date: 2025

Project No.: 25-WM0039

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DESCRIPTION:
ENLARGED
DETAILS



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TIMOTHY M. BRANNON
L.C. #5712
STATE OF LOUISIANA
REGISTERED ARCHITECT

**Lakeshore Elementary School Office
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No.	Description	Date

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A6.01
Date: 2025
Project No.: 25-WM0039
File Name:
DESCRIPTION:
INTERIOR
ELEVATIONS



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Fax. 318.998.1315
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TIMOTHY M. BRANNON
J.C. #572
STATE OF LOUISIANA
REGISTERED ARCHITECT

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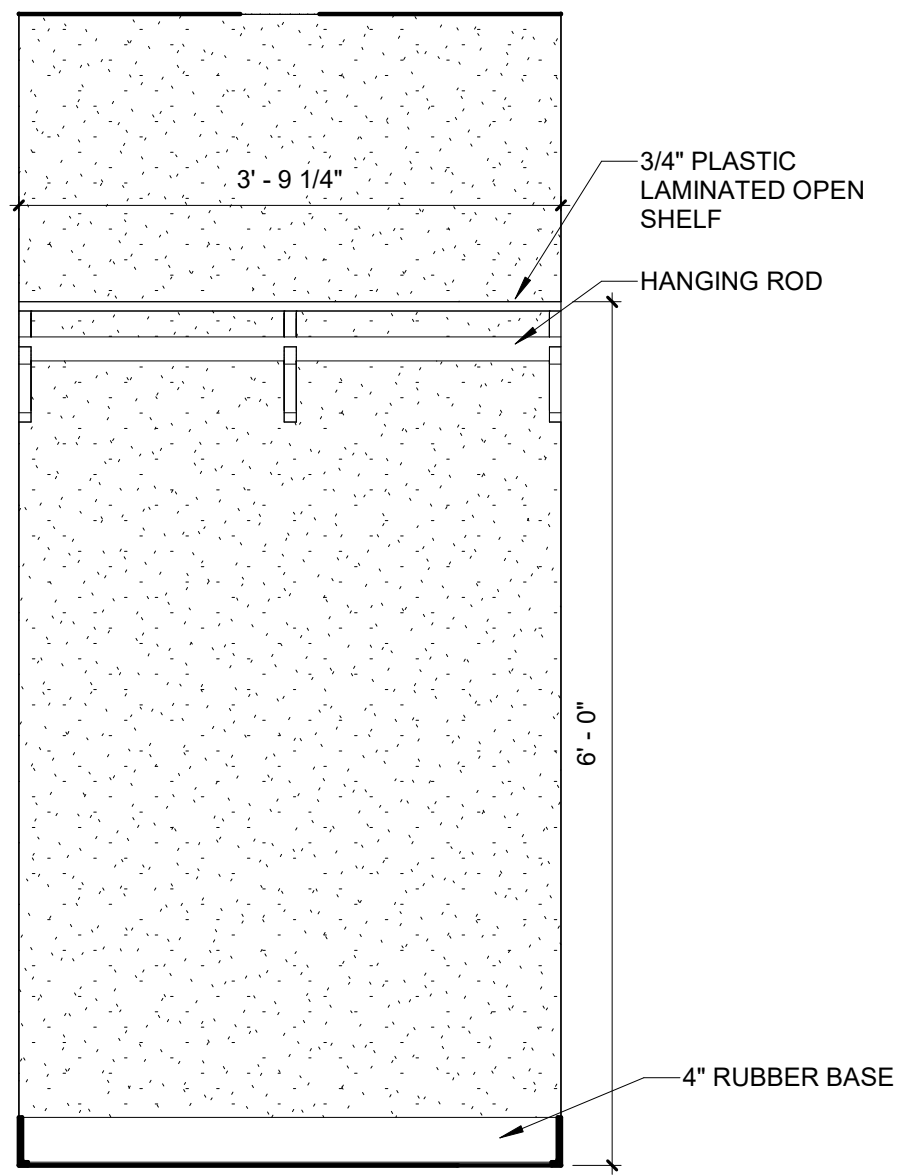
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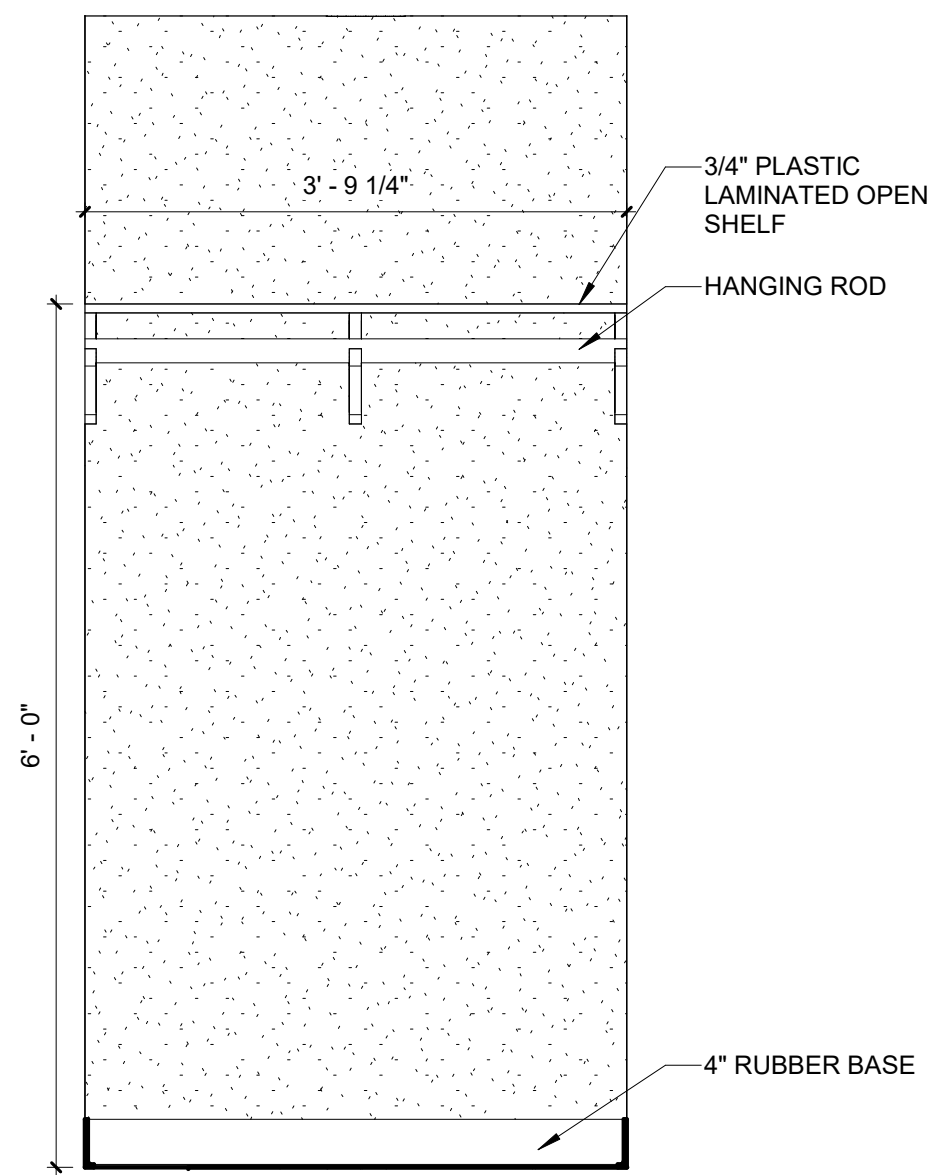
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Date: 2025
Project No.: 25-WM0039
File Name:

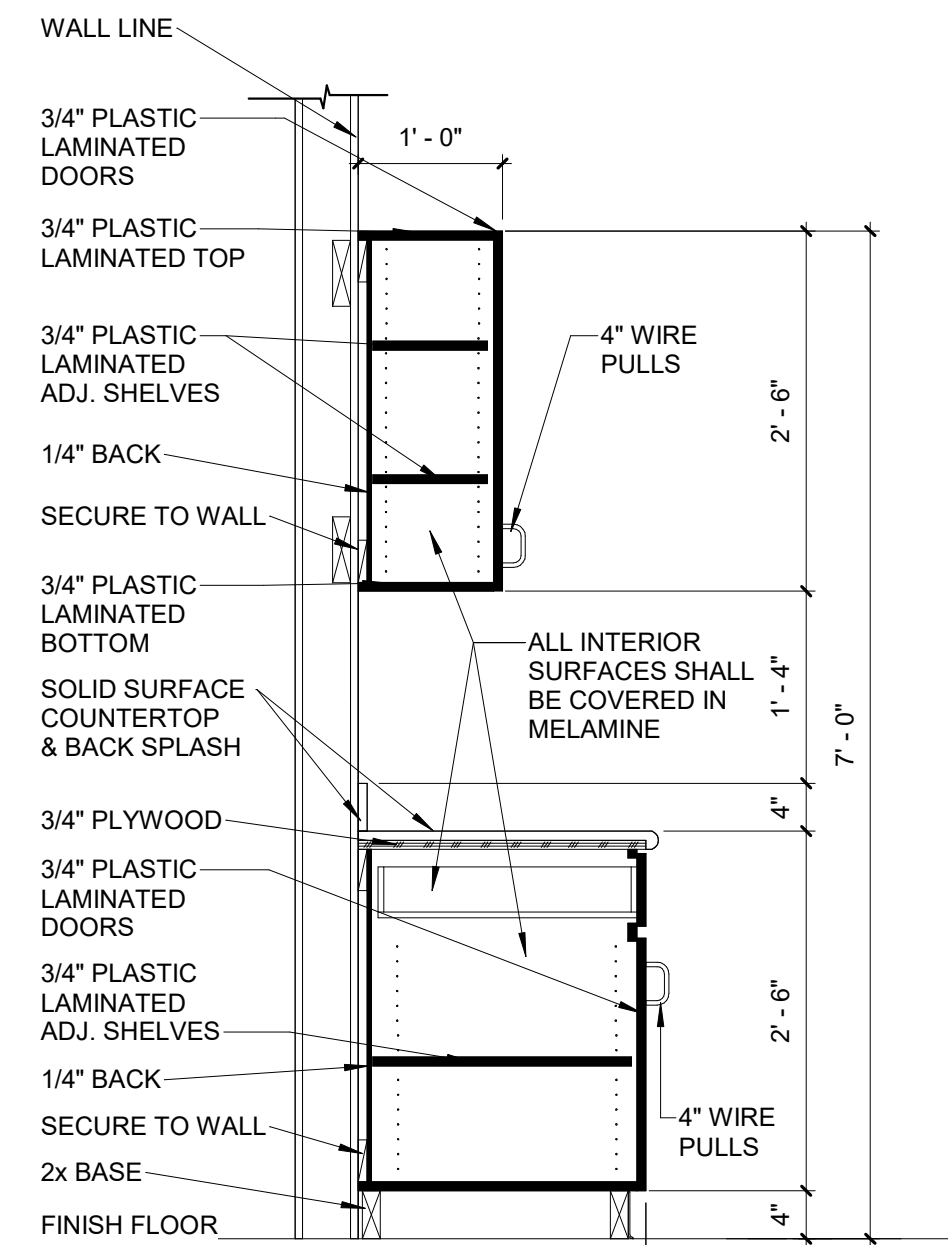
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INTERIOR
ELEVATIONS



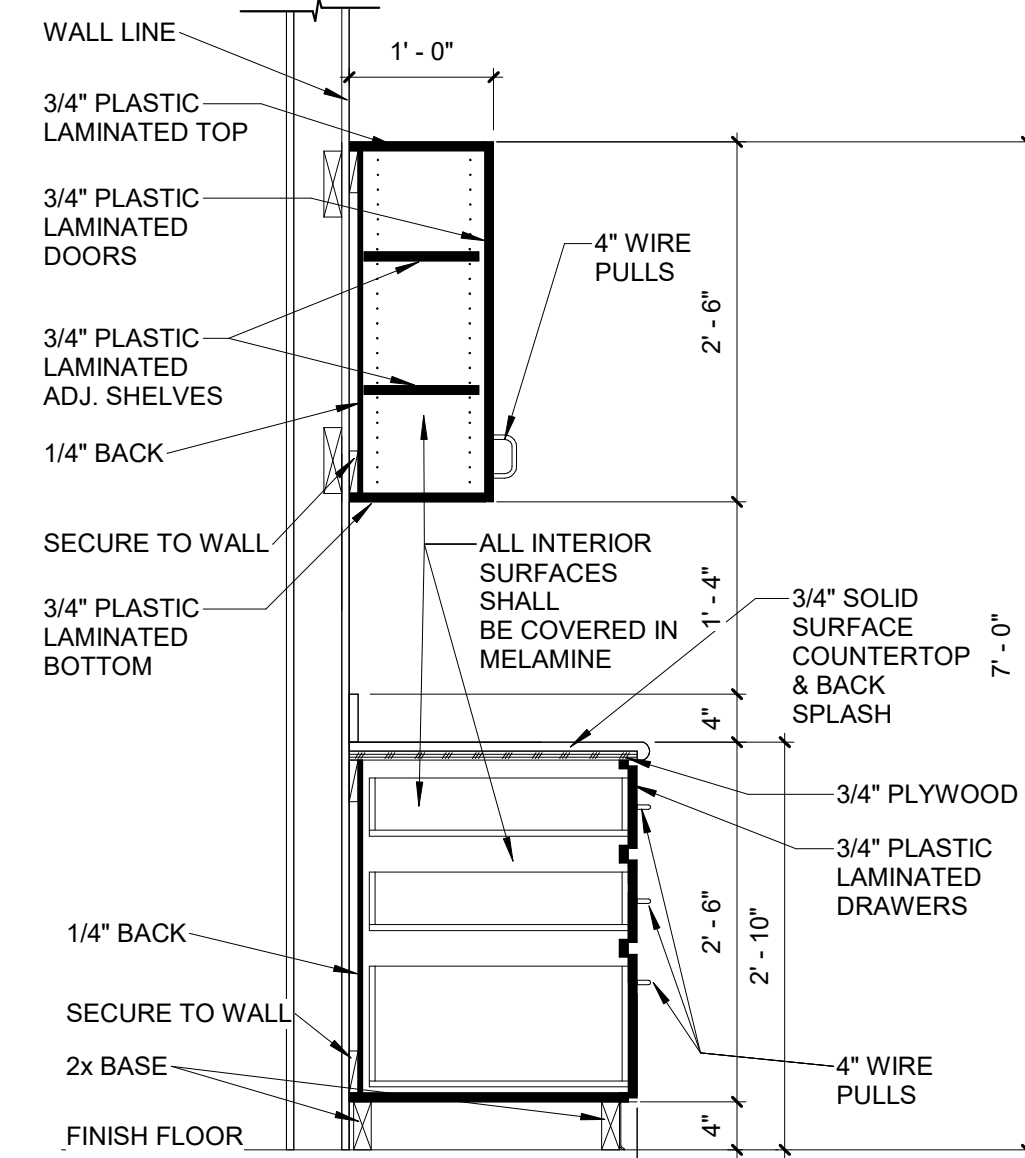
1 CLOSET
3/4" = 1'-0" | RE:1/4



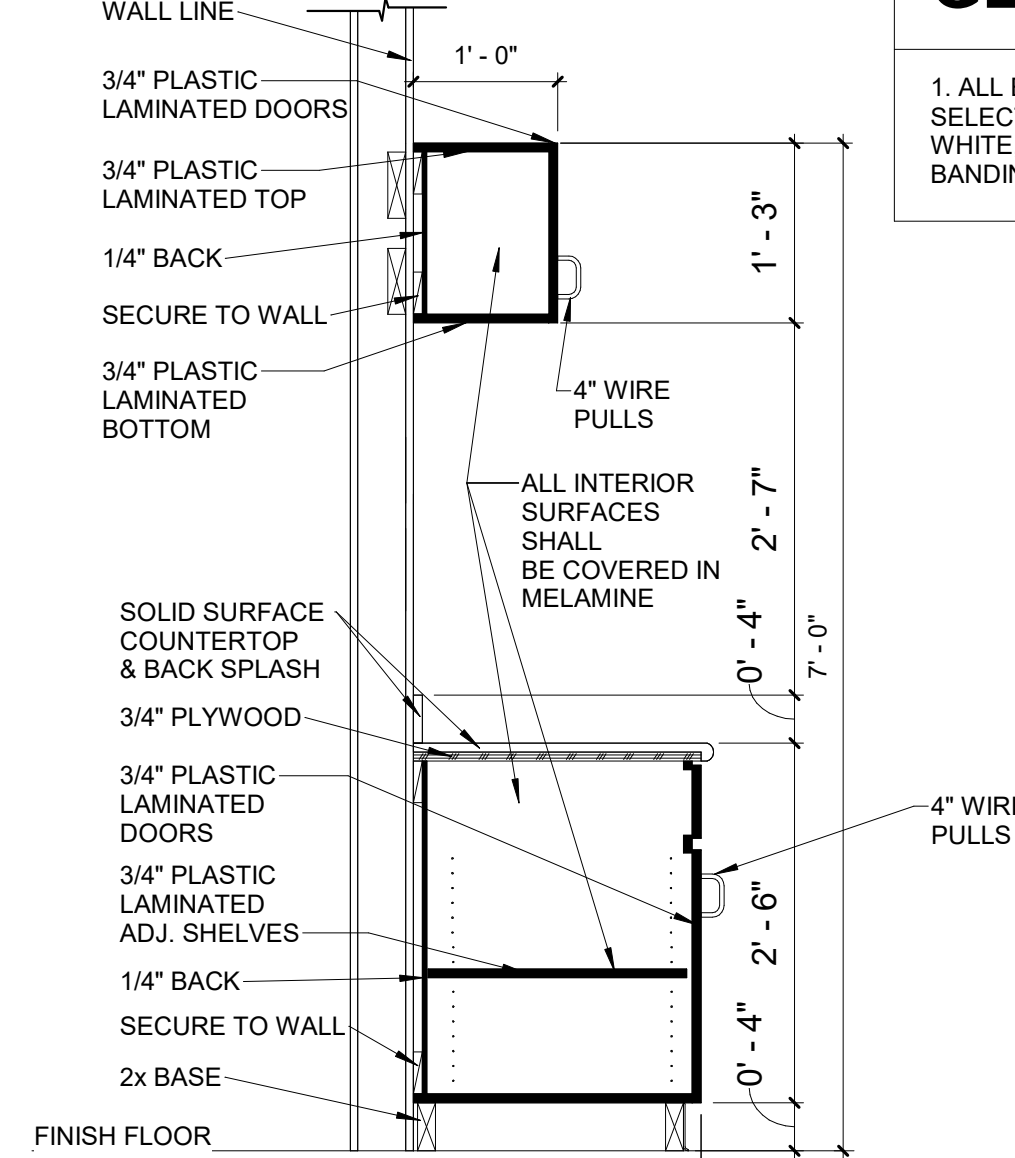
2 CLOSET
3/4" = 1'-0" | RE:1/4



3 MILLWORK DETAIL
3/4" = 1'-0" | RE:1/A6.01



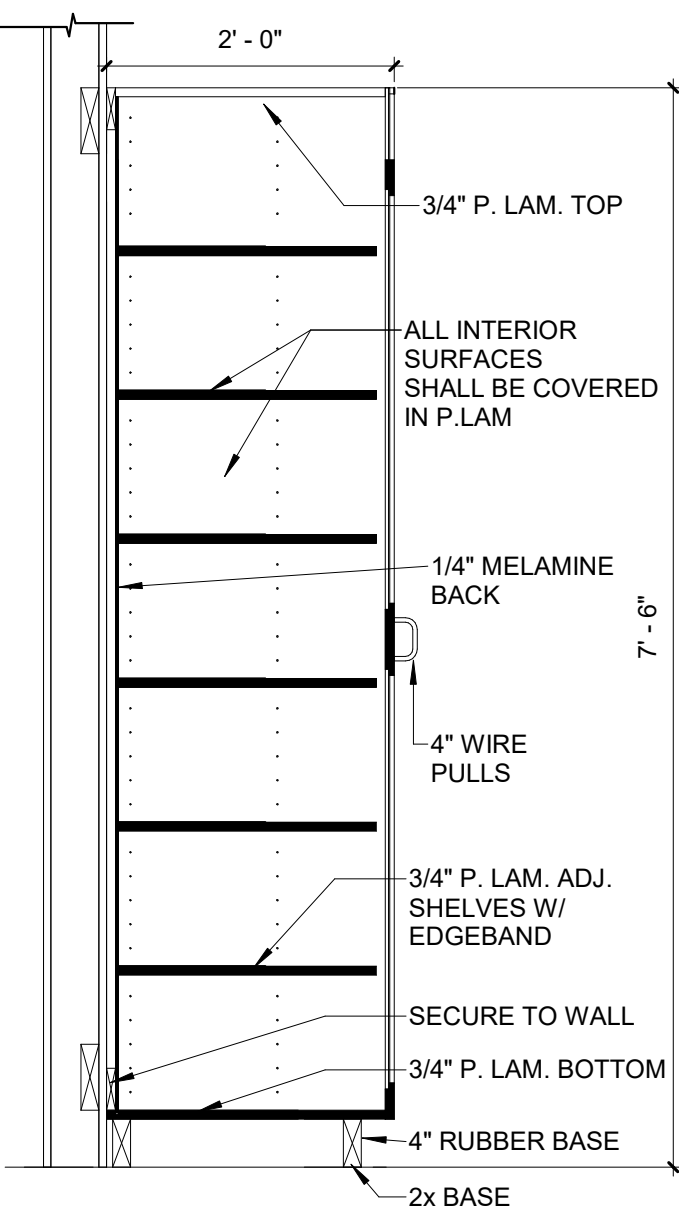
4 MILLWORK DETAIL
3/4" = 1'-0" | RE:1/A6.01



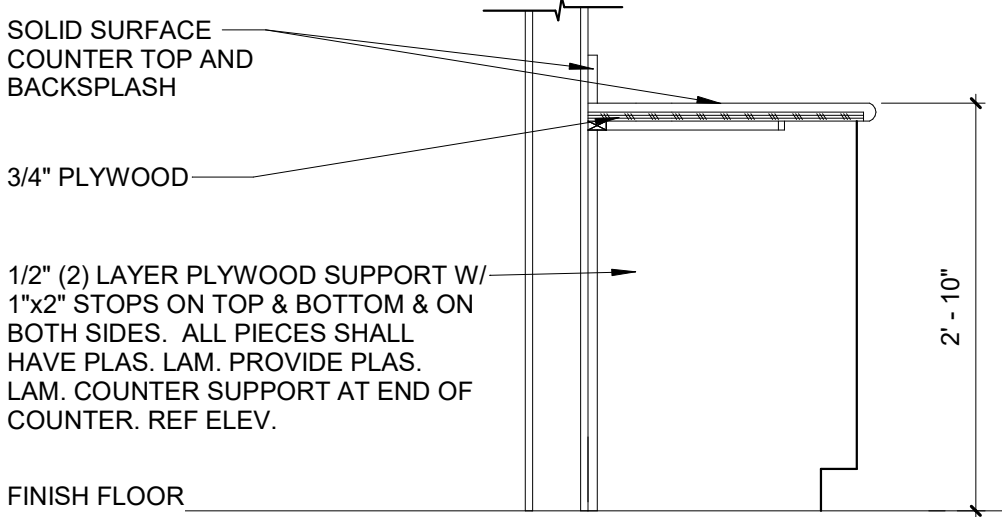
5 MILLWORK DETAIL
3/4" = 1'-0" | RE:3/A6.01

GENERAL NOTES

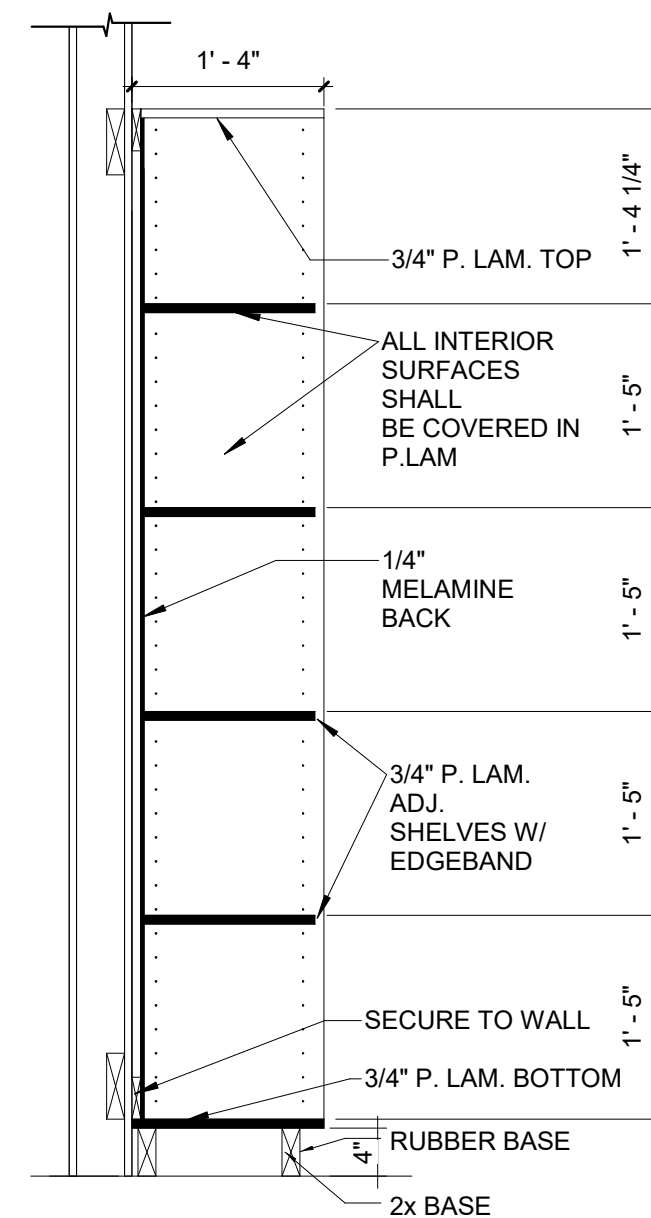
1. ALL EXTERIOR EXPOSED MILLWORK AND DOORS TO BE PLAM SELECTED. ONLY INTERIOR HIDDEN MELAMINE TO HAVE (SELECT: WHITE, GRAY OR BEIGE) EDGE BAND. ALL MILLWORK DOOR EDGE BANDING TO MATCH PLAM SELECTED.



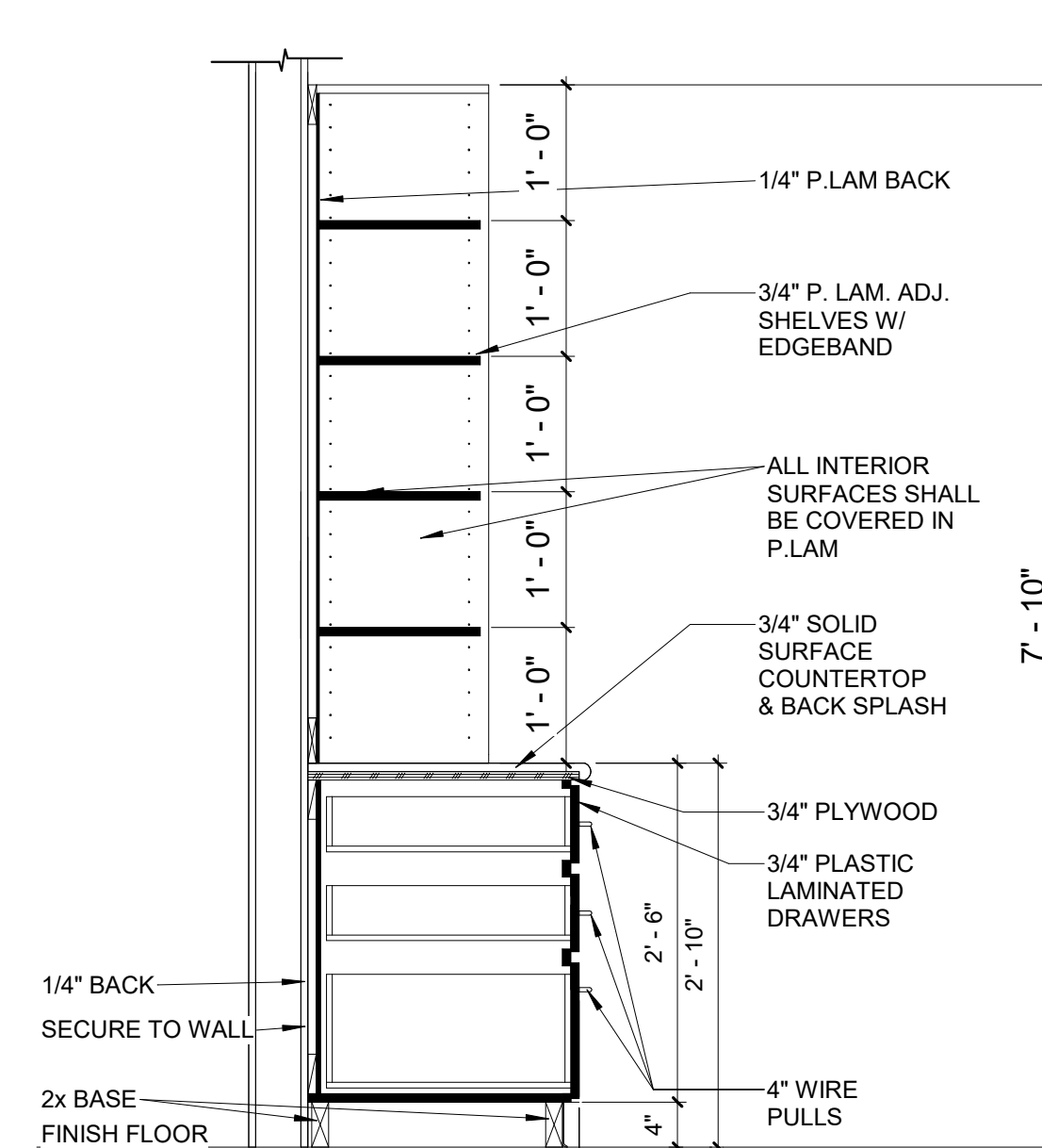
6 MILLWORK DETAIL
3/4" = 1'-0" | RE:2/A6.01



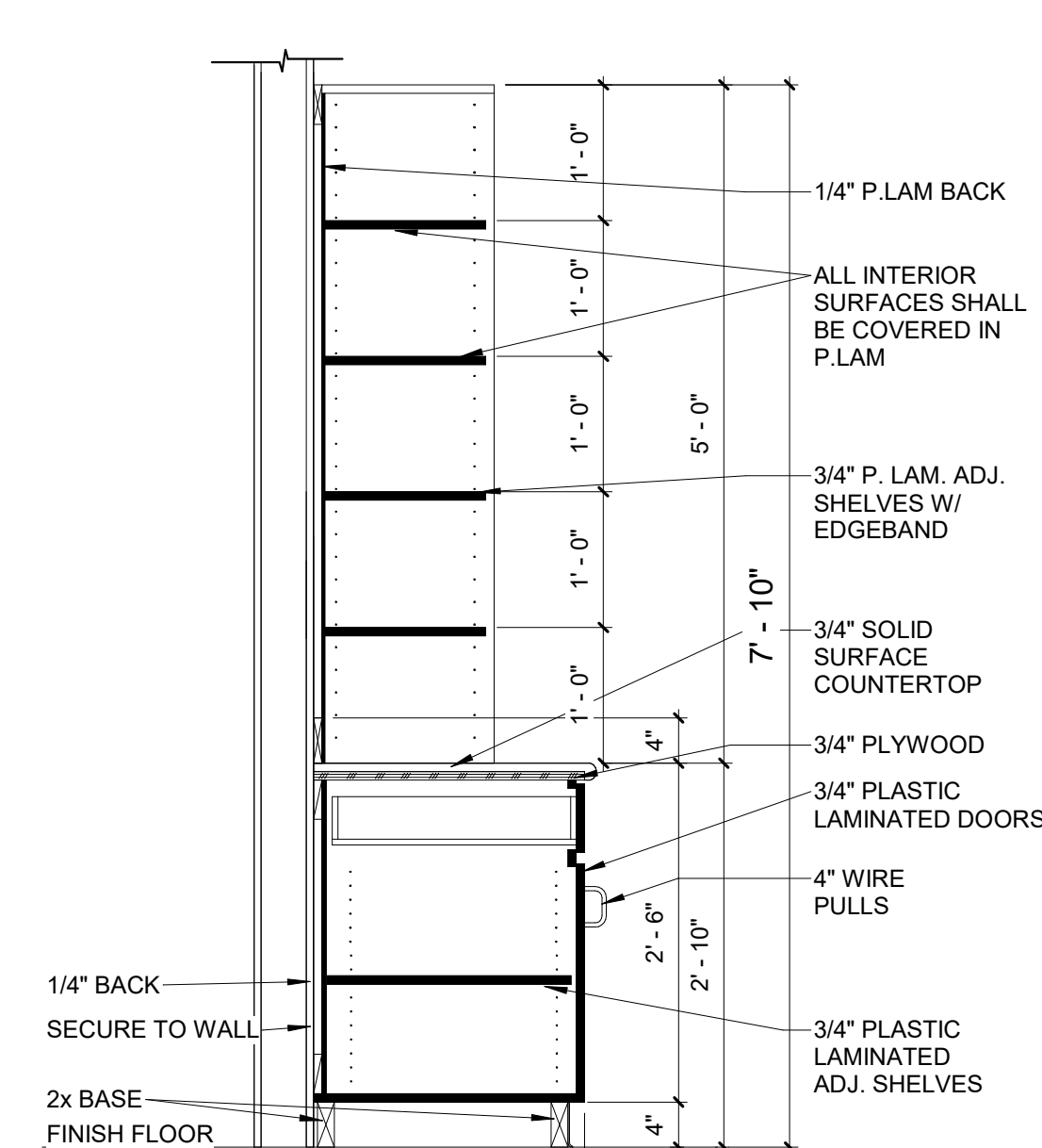
7 MILLWORK DETAIL
3/4" = 1'-0" | RE:3/A6.01



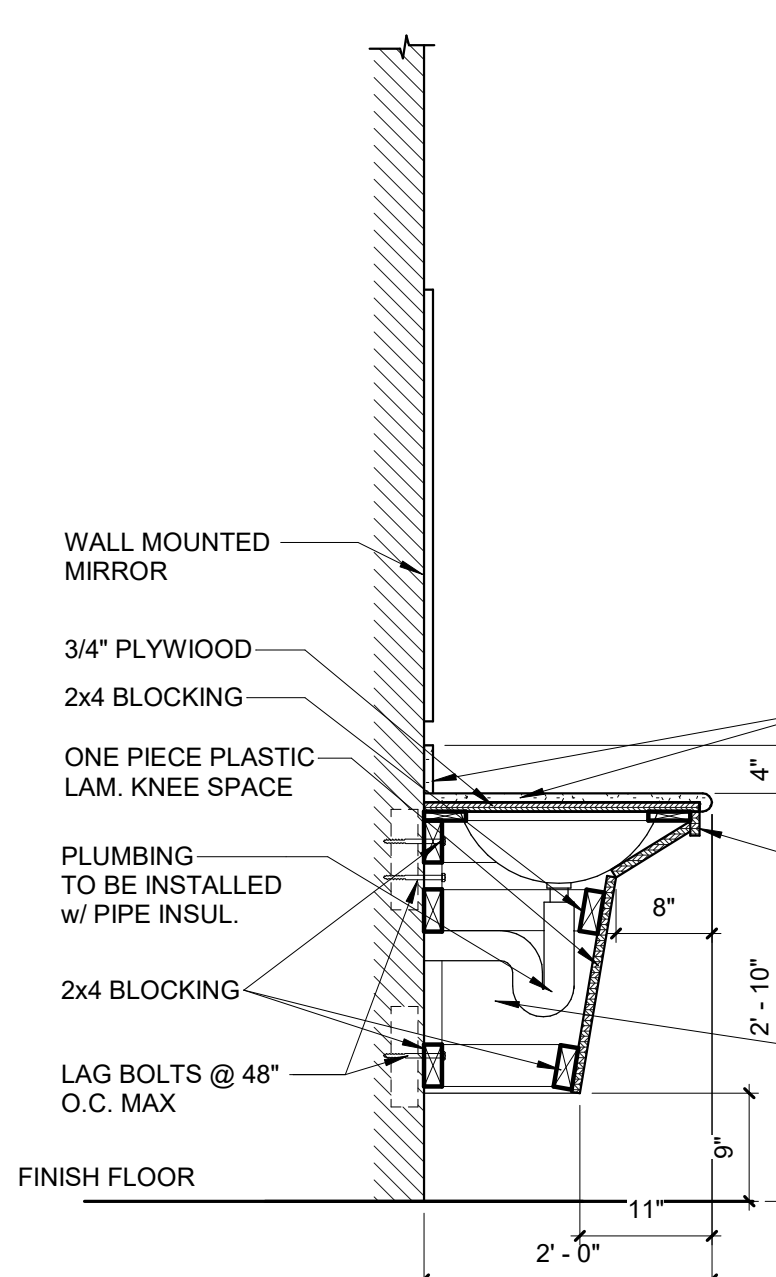
8 MILLWORK DETAIL
3/4" = 1'-0" | RE:8/A6.01



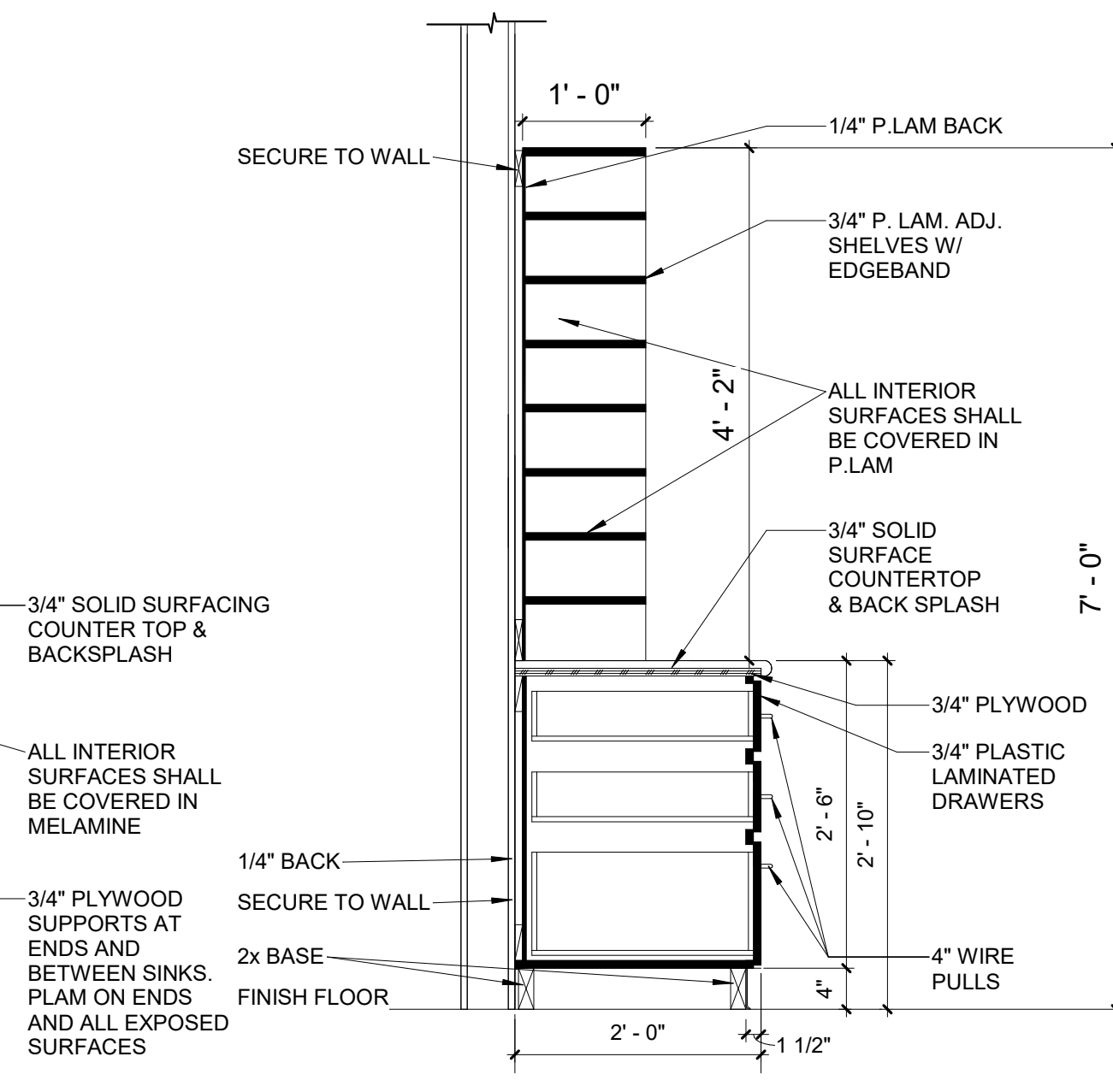
9 MILLWORK DETAIL
3/4" = 1'-0" | RE:12/A6.01



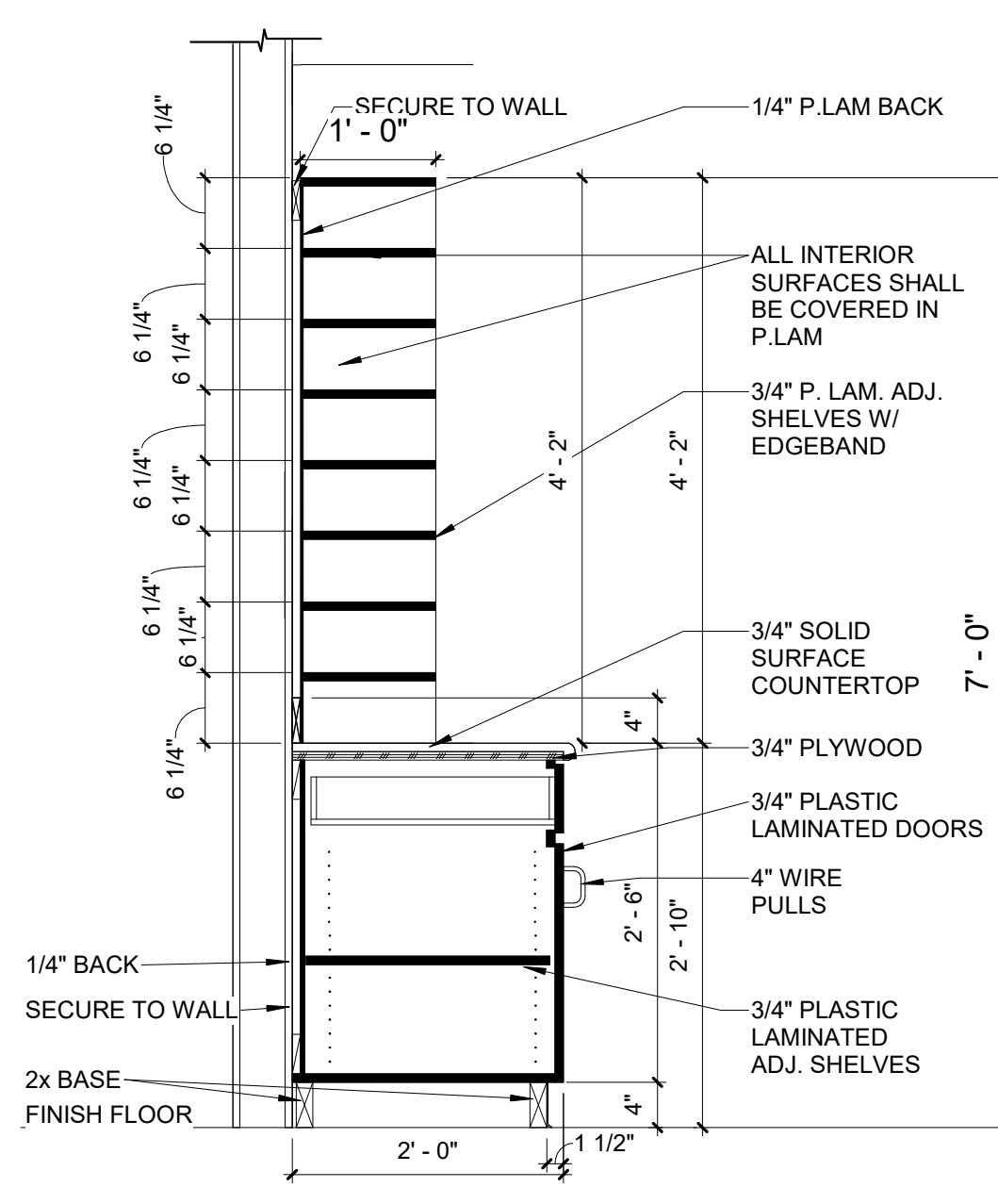
10 MILLWORK DETAIL
3/4" = 1'-0" | RE:12/A6.01



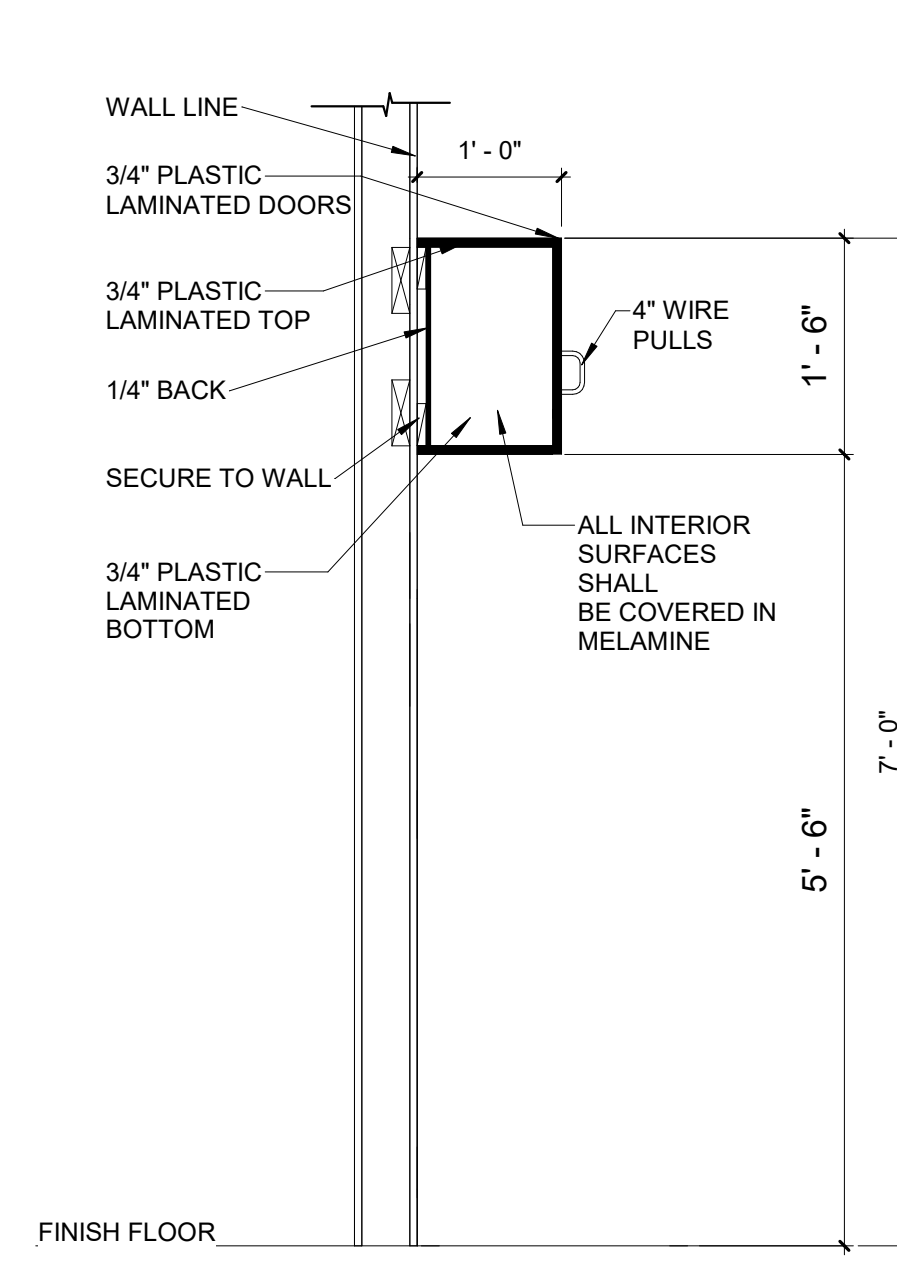
11 MILLWORK DETAIL
3/4" = 1'-0" | RE:14/A6.01



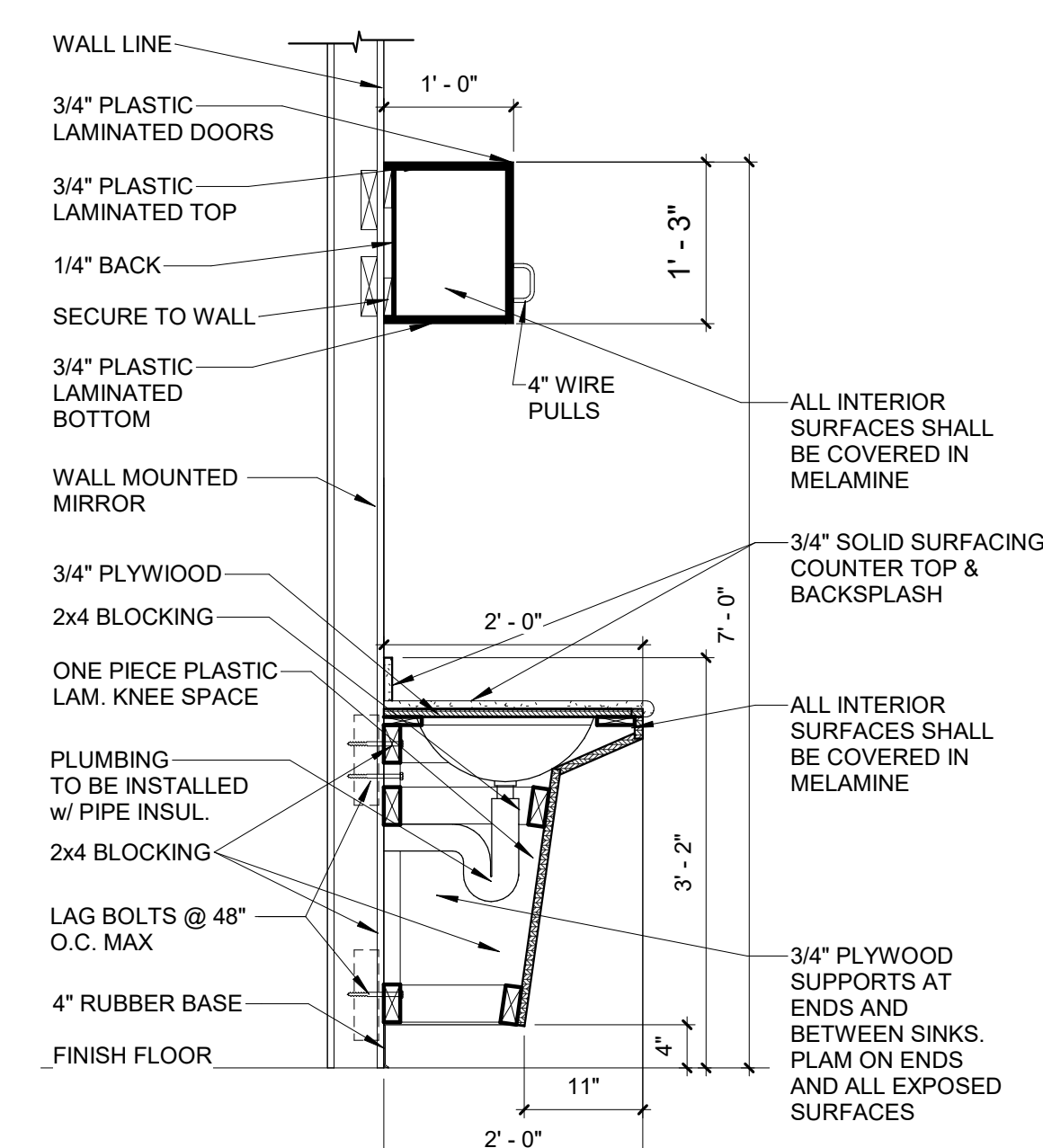
12 MILLWORK DETAIL
3/4" = 1'-0" | RE:10/A6.01



13 MILLWORK DETAIL
3/4" = 1'-0" | RE:10/A6.01



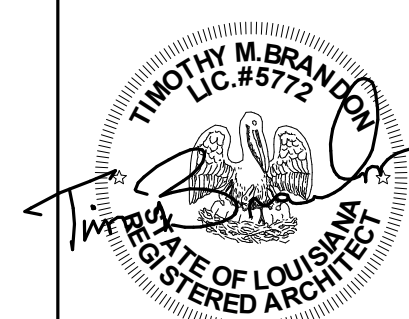
14 MILLWORK DETAIL
3/4" = 1'-0" | RE:4/A6.01



15 MILLWORK DETAIL
3/4" = 1'-0" | RE:4/A6.01

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SHEET

A6.03

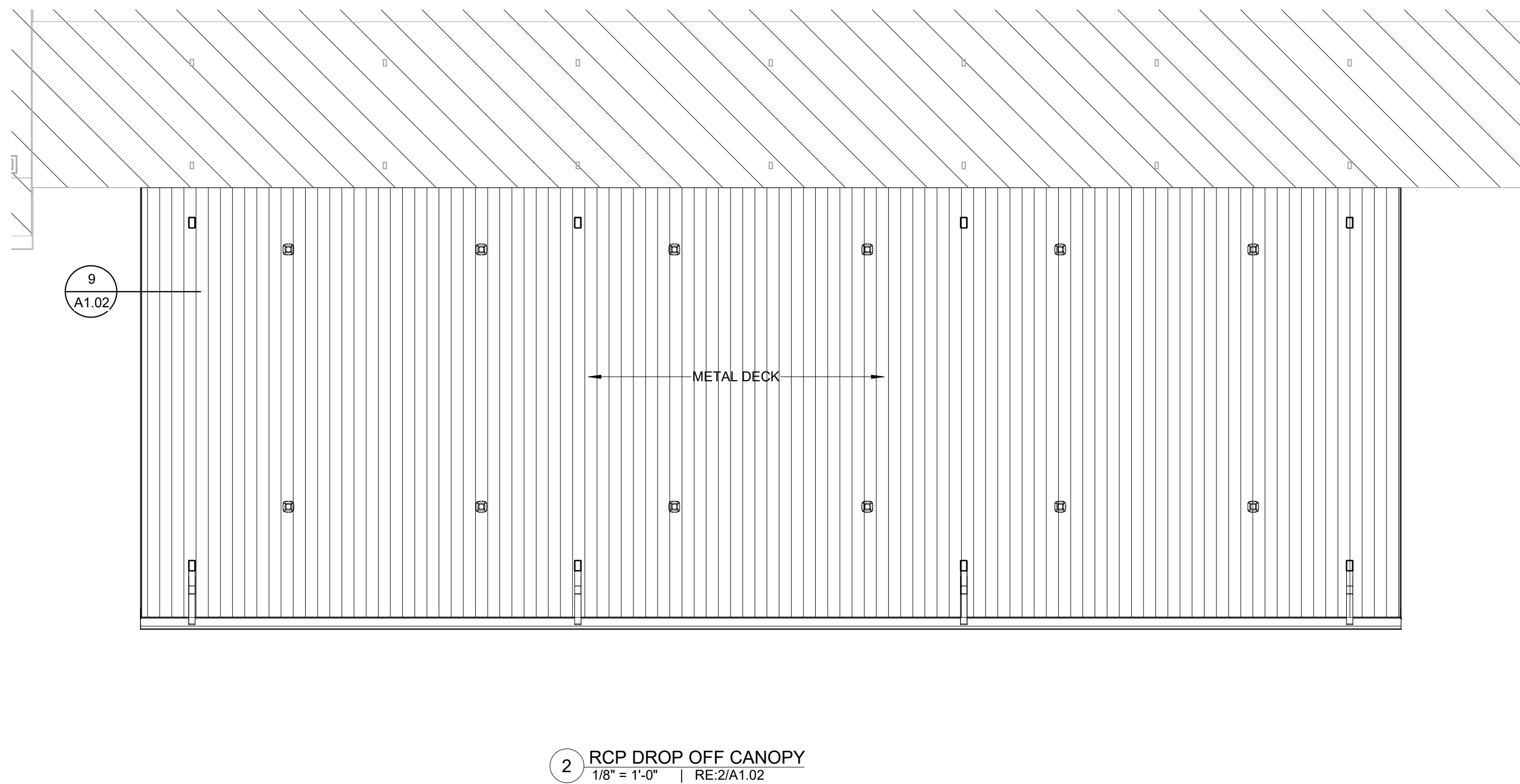
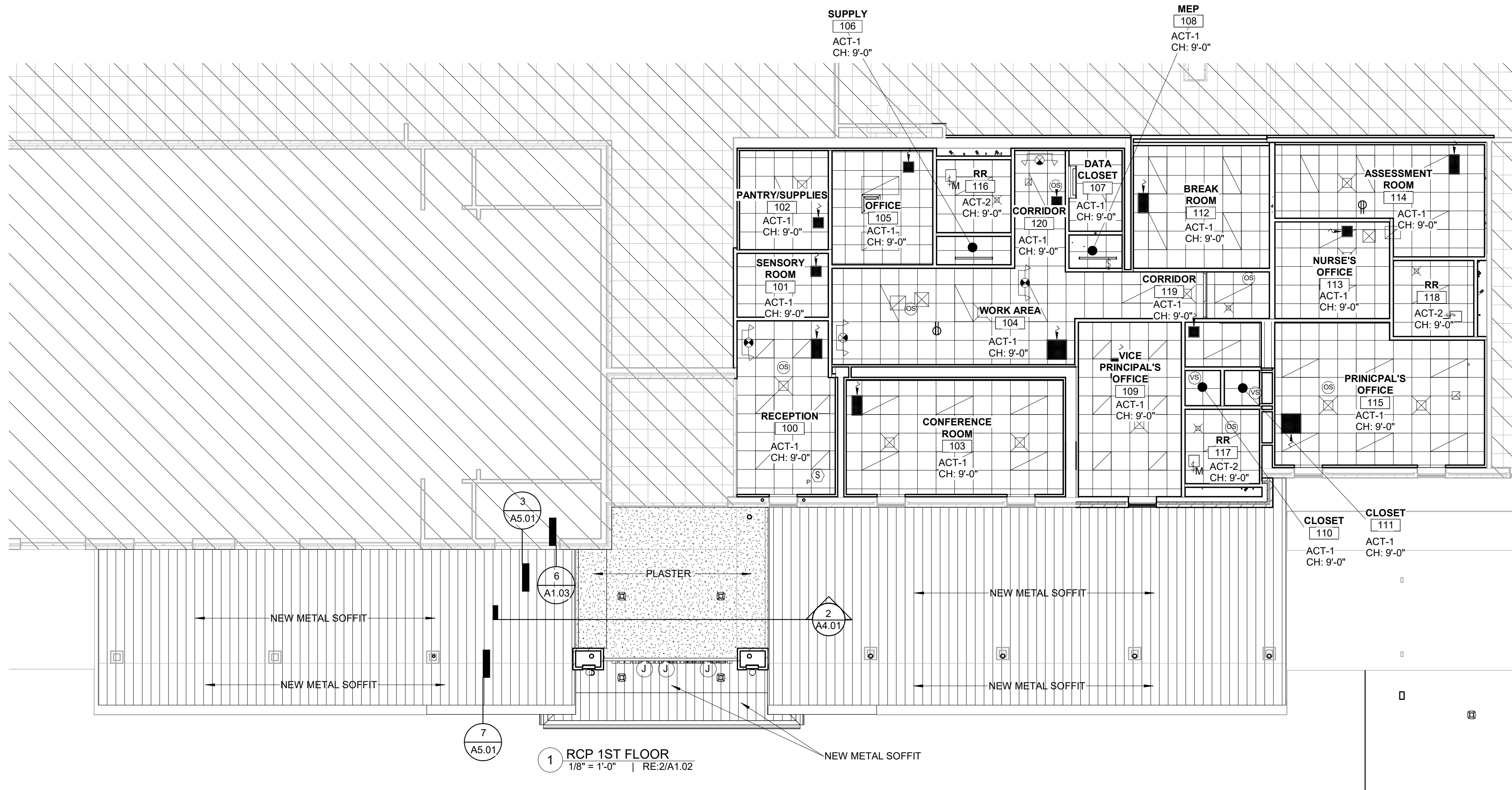
Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

MILLWORK
DETAILS



CEILING MATERIAL LEGEND

	2'-0" x 2'-0" CEILING TILES AND SUSPENDED METAL GRID	ACT 1
	2' X 2' MOISTURE RESISTANT ACOUSTICAL CEILING TILE - SEE SPECIFICATIONS	ACT 2
	CEILING HEIGHT	
	METAL DECK OR SOFFIT PANELS	
	PLASTER ON EXTERIOR SHEATHING	
	EXISTING TO REMAIN	

1. THE REFLECTED CEILING PLAN DRAWING INDICATES CEILING FINISHES AND HEIGHTS. SEE ELECTRICAL DRAWINGS FOR ALL LIGHTING AND CEILING MOUNTED DEVICES WHICH SHALL BE COUNTED AND INSTALLED PER THE ELECTRICAL DRAWINGS. ALL SUSPENDED ACOUSTIC CEILINGS IN CORRIDORS SHALL HAVE HOLD DOWN CLIPS. SEE THE FINISH SCHEDULE FOR MORE INFORMATION ON THE SPECIFIC TYPE OF CEILING TILES AND FINISHES FOR EACH INDIVIDUAL ROOM.
2. THE ARCHITECT MAINTAINS THE RIGHT TO SELECT LIGHT FIXTURE, ELECTRICAL SWITCH, OUTLET, AND ALL COVER PLATES COLOR. IF THE COLOR IS INCLUDED IN THE ELECTRICAL SPECIFICATIONS OR THE SUBMITTAL, AND APPROVED BY THE ELECTRICAL ENGINEER, THE ARCHITECT SHALL STILL APPROVE ALL COLORS BEFORE THAT SUBMITTAL ITEM IS CONSIDERED OFFICIAL.

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SHEET

A7.01

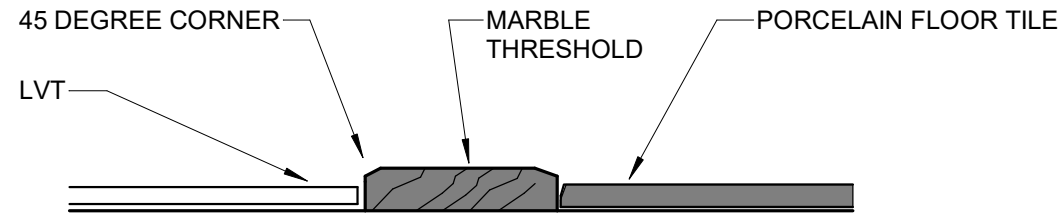
Date: 2025

Project No.: 25-WM0039

File Name:

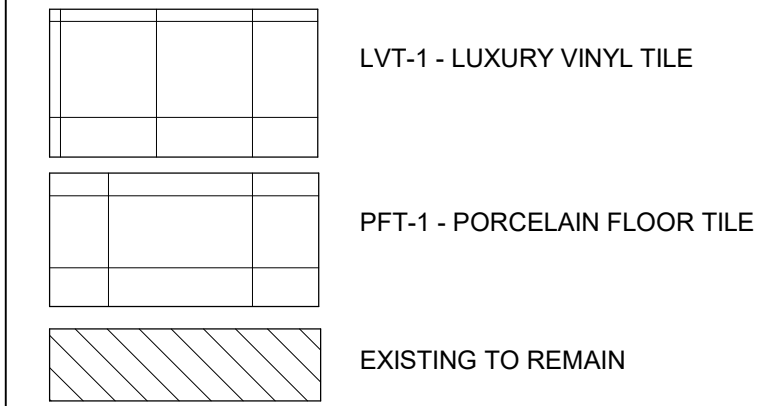
DESCRIPTION:

REFLECTED
CEILING PLAN



2 LVT @ PFT @ RESTROOM LOCATIONS
6" = 1'-0" | RE:1/A8.01

FLOOR PLAN LEGEND



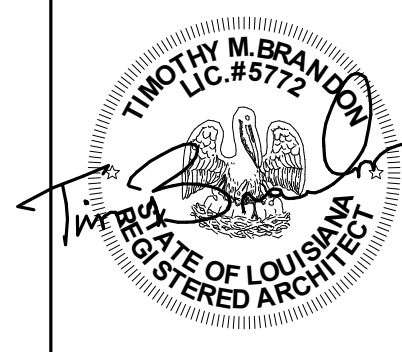
PATCH SECTION OF EXISTING CONCRETE AND VCT FOR INCOMING PLUMBING LINES. PROVIDE UP TO (3) COLORS FROM MANUFACTURER'S FULL COLOR RANGE. REF: PLUMBING FOR LOCATION.



1 FLOOR PATTERN PLAN
1/4" = 1'-0" | RE:2/A1.02

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ARCHITECTURE
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A8.01

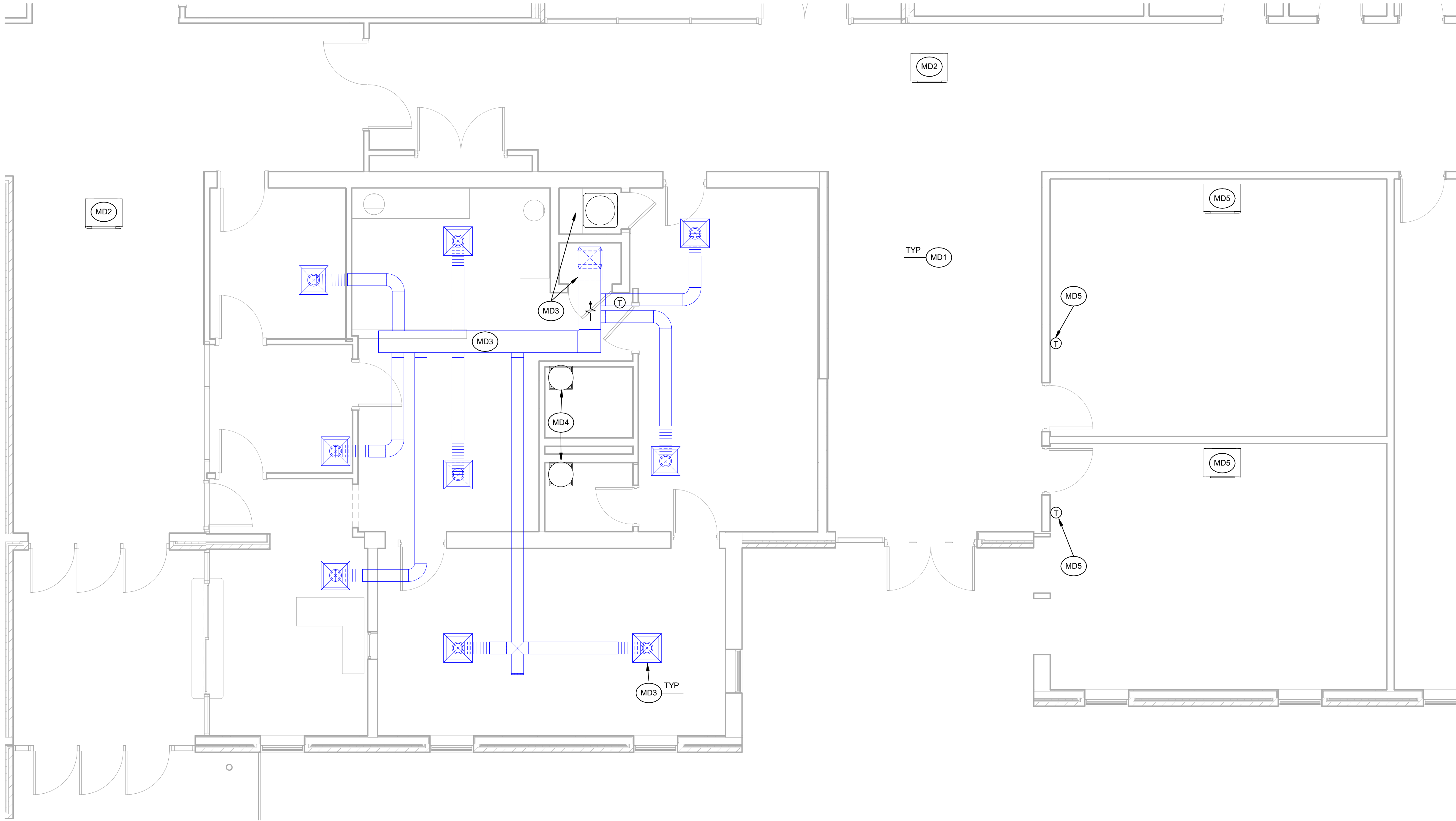
Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

FLOOR PATTERN
PLAN



HVAC DEMOLITION NOTES

- MD1 REFERENCE GENERAL HVAC NOTES ON SHEET M2.03.
- MD2 EXISTING HYDRONIC FAN COIL UNIT AND ASSOCIATED PIPING, POWER, AND CONTROLS TO REMAIN. PROTECT DURING DEMOLITION AND NEW CONSTRUCTION.
- MD3 DISCONNECT AND REMOVE EXISTING SPLIT SYSTEM INDOOR AND OUTDOOR UNITS, ASSOCIATED DUCTWORK, AIR DEVICES, PIPING, POWER, AND CONTROLS.
- MD4 DISCONNECT AND REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, AIR DEVICES, PIPING, POWER, AND CONTROLS. PATCH AND SEAL ROOF OPENINGS WATER-TIGHT.
- MD5 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED POWER AND CONTROLS. REMOVE HYDRONIC BRANCH PIPING SERVING FAN COIL UNIT BACK TO MAIN SUPPLY AND RETURN LINES. RETAIN MAIN HYDRONIC LINES AND CAP TERMINATION POINTS AS REQUIRED FOR A LEAK-FREE SYSTEM. COORDINATE WITH BUILDING OPERATIONS FOR ANY REQUIRED SHUTDOWNS.

1 1ST FLOOR PLAN - HVAC DEMOLITION
1/4" = 1'-0"

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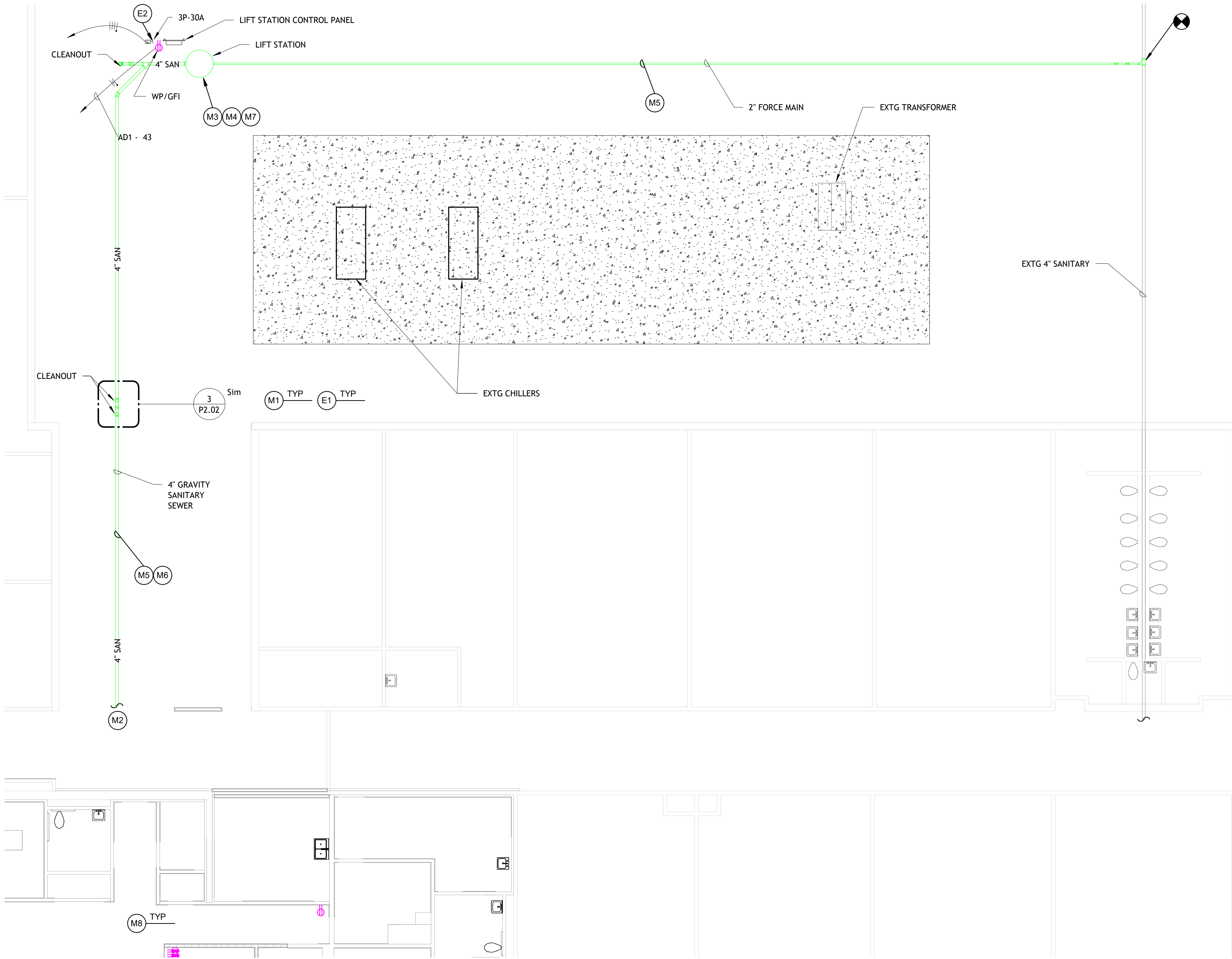
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SHEET

MD1.01

Date: 2025
Project No.: 25-WM0039
File Name:

DESCRIPTION:
1ST FLOOR PLAN -
HVAC DEMOLITION



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

ELECTRICAL & MECHANICAL NOTES

- E1 REFERENCE GENERAL ELECTRICAL NOTES ON SHEET 2.01.
E2 PROVIDE NEMA 3R, 3P-30A DISCONNECT SWITCH FOR LIFT STATION. MOUNT ON UNISTRUT RACK WITH CONCRETE FOOTINGS. PAINT UNISTRUT WITH TWO (2) COATS OF RUST-INHIBITING ENAMEL PAINT. COORDINATE THE EXACT LOCATION WITH EXISTING CONDITIONS AND WITH LOCATION OF THE LIFT STATION. EXTEND 4#8 CONDUCTORS IN 1" CONDUIT TO NEW 3P-30A BREAKER IN EXISTING 1200A SWITCHBOARD. ROUTE CIRCUIT UNDERGROUND FROM LIFT STATION TO BUILDING. PROVIDE CONDUIT TURN-UP AT BUILDING EXTERIOR AND PENETRATE BUILDING AT LOW POINT PRACTICAL ABOVE GRADE. PAINT EXPOSED CONDUIT AS DIRECTED BY THE ARCHITECT. MINIMIZE EXPOSED CONDUIT; ANY EXPOSED RUNS SHALL BE COORDINATED WITH AND APPROVED BY THE ARCHITECT.
- M1 REFERENCE GENERAL PLUMBING NOTES ON SHEET P2.01.
M2 SEE SHEET P1.01 FOR CONTINUATION.
M3 REFERENCE GENERAL PLUMBING NOTES ON SHEET P2.01.
M4 SANITARY LIFT STATION SHOWN IS BASED ON AVAILABLE RECORD INFORMATION. PRIOR TO ORDERING OR INSTALLING LIFT STATION EQUIPMENT, CONTRACTOR SHALL PERFORM SELECTIVE DEMOLITION AS REQUIRED TO VERIFY EXISTING SANITARY INVERT ELEVATIONS AND AVAILABLE GRAVITY CONNECTION DEPTHS. IF FIELD CONDITIONS CONFIRM THAT ALL NEW FIXTURES CAN BE SERVED BY GRAVITY DRAINAGE IN COMPLIANCE WITH APPLICABLE CODE REQUIREMENTS, CONTRACTOR SHALL NOTIFY THE ARCHITECT & ENGINEER. REMOVAL OF LIFT STATION SHALL BE PERMITTED ONLY UPON WRITTEN APPROVAL BY THE ARCHITECT.
- M5 CONTRACTOR SHALL PERFORM CAREFUL EXCAVATION FOR ALL NEW SANITARY SEWER PIPING ROUTED TO GRAVITY FEED THE SANITARY LIFT STATION AND FOR THE FORCE MAIN DISCHARGE PIPING ROUTED FROM THE LIFT STATION. EXISTING UNDERGROUND UTILITIES ARE KNOWN TO BE PRESENT IN THE VICINITY, INCLUDING BUT NOT LIMITED TO HYDRONIC PIPING, ELECTRICAL CONDUITS, AND OTHER UNDERGROUND SERVICES. CONTRACTOR SHALL LOCATE, PROTECT, AND MAINTAIN ALL EXISTING UTILITIES DURING EXCAVATION AND INSTALLATION AND SHALL COORDINATE WITH ALL TRADES AND EXISTING SITE CONDITIONS. ADJUST ROUTING AS REQUIRED TO AVOID EXISTING UTILITIES WHILE MAINTAINING REQUIRED SLOPES, ALIGNMENTS, AND CODE COMPLIANCE. ANY DAMAGE TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- M6 CONTRACTOR SHALL SAWCUT, REMOVE, AND PATCH EXISTING SLAB AS REQUIRED TO INSTALL NEW SANITARY SEWER PIPING INDICATED. EXTENT OF SLAB REMOVAL SHALL BE LIMITED TO THE MINIMUM NECESSARY TO PERFORM THE WORK. COORDINATE SLAB REMOVAL WITH ALL TRADES AND EXISTING CONDITIONS. PROTECT ADJACENT SLABS, STRUCTURES, AND FINISHES DURING DEMOLITION AND RESTORATION. PATCH AND RESTORE SLAB TO MATCH EXISTING CONDITIONS AND STRUCTURAL REQUIREMENTS. ALL SLAB REPAIR WORK SHALL COMPLY WITH APPLICABLE CODES AND PROJECT SPECIFICATIONS.
- M7 REFERENCE ADDITIONAL LIFT STATION INFORMATION ON SHEET P2.04.
M8 SEE SHEETS P1.01 & P1.02 FOR WORK IN THIS AREA.

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ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
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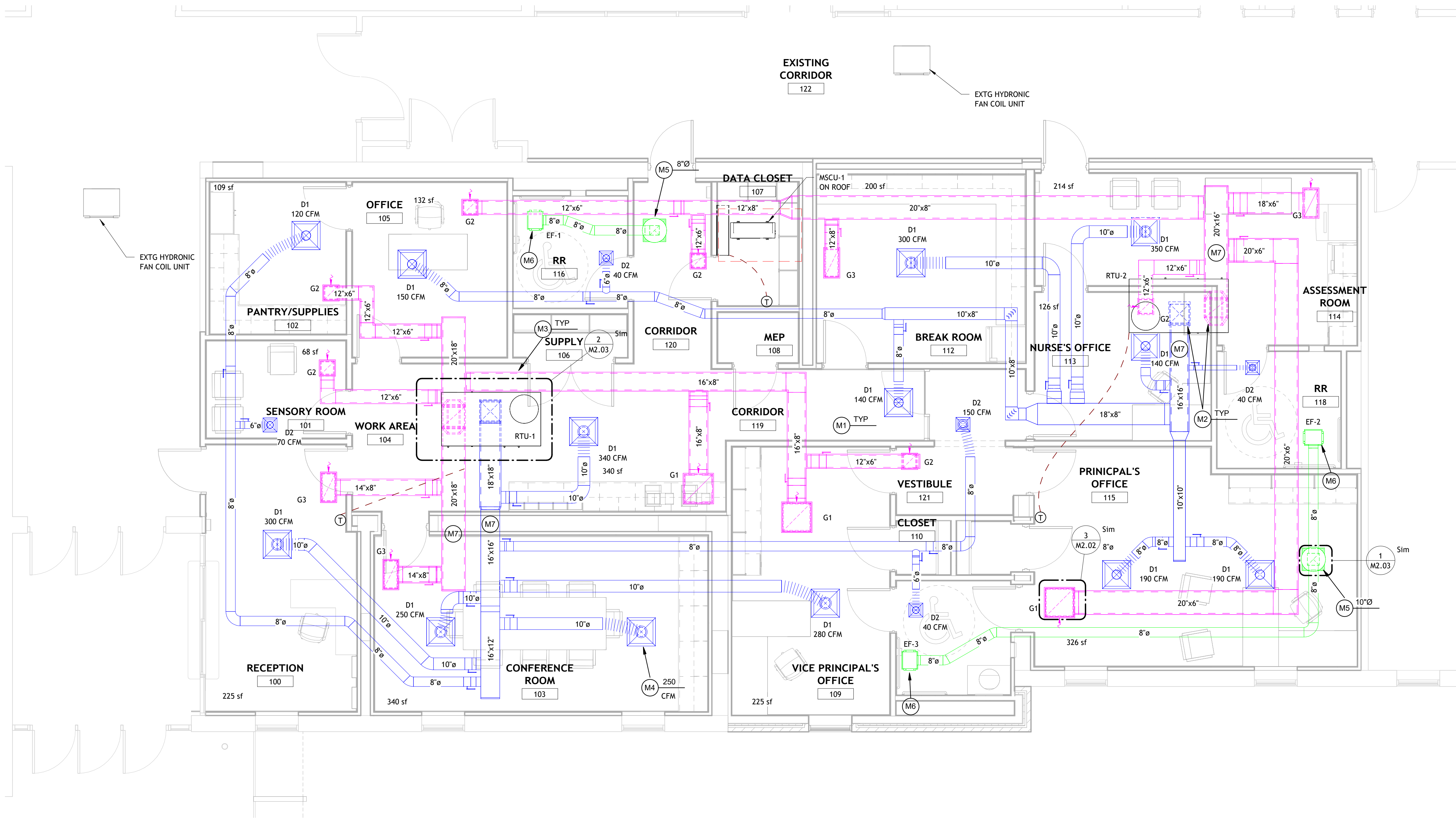
ME1.01

Date: 2025
Project No.: 25-WM0039

File Name:

DESCRIPTION:

PARTIAL
MECHANICAL &
ELECTRICAL SITE
PLAN



1 1ST FLOOR PLAN - HVAC
1/4" = 1'-0"

HVAC NOTES

- M1 REFERENCE GENERAL HVAC NOTES ON SHEET M2.03.
M2 EXTEND SUPPLY/RETURN DUCT FROM ROOFTOP UNIT OPENINGS. TRANSITION IN THE VERTICAL TO DUCT SIZE INDICATED ON DRAWING, AND OFFSET AS REQUIRED TO AVOID STRUCTURAL MEMBERS.
M3 CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ROOFTOP UNITS WITH EXISTING FIELD CONDITIONS. PROVIDE ALL REQUIRED STRUCTURAL STEEL SUPPORTS AS NECESSARY FOR A COMPLETE INSTALLATION. STRUCTURAL SUPPORT DESIGN SHALL BE PREPARED AND SEALED BY A LICENSED STRUCTURAL ENGINEER AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION.
M4 PROVIDE THERMALLY POWERED VAV DIFFUSER (THERMA-FUSER™ TF-HC OR APPROVED EQUAL) WITH SEPARATE FIELD-ADJUSTABLE TEMPERATURE SETPOINTS FOR HEATING AND COOLING (FACTORY SET TO 74° F, ADJUSTABLE 70° F-78° F). DIFFUSER SHALL INCLUDE INTEGRAL COOLING THERMOSTAT/ACTUATOR, HEATING THERMOSTAT/ACTUATOR, AND CHANGEOVER MECHANISM. PROVIDE MICROMETER-TYPE TEMPERATURE SETPOINT ADJUSTMENT ACCESSIBLE FROM APPEARANCE PANEL WITHOUT TOOLS. DIFFUSER SHALL MODULATE BASED ON ROOM TEMPERATURE AND SUPPLY AIR TEMPERATURE AND SHALL HAVE POSITIVE INDUCTION OF SECONDARY ROOM AIR. PROVIDE PERIMETER DAMPERS FOR AIR DISTRIBUTION AND BALANCING WITHOUT EXTERNAL WIRING OR PNEUMATICS. INSTALL AND ADJUST PER MANUFACTURER'S REQUIREMENTS.
M5 PROVIDE EXHAUST HOOD EQUAL TO GREENHECK GRSR WITH THROAT SIZE MATCHING DUCT SIZE INDICATED. EXTEND AND CONNECT EXHAUST DUCT TO EXHAUST HOOD. PROVIDE BIRDSCREEN AND FACTORY ROOF CURB. FIELD-PAINT HOOD AND CURB TO MATCH ROOF OR AS DIRECTED BY ARCHITECT.
M6 INTERLOCK EXHAUST FAN WITH ROOM LIGHT SWITCH SO THAT FAN OPERATES WHEN LIGHT IS SWITCHED ON. COORDINATE CONTROL WIRING AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
M7 TRUNK DUCT SHALL BE ROUTED BETWEEN TRUSSES. INSTALLATION MAY REQUIRE INTERRUPTION OF TRUSSES BRIDGING. PROVIDE STRUCTURAL REINFORCEMENT OF TRUSSES AS REQUIRED BY THE STRUCTURAL ENGINEER. REFERENCE STRUCTURAL DRAWINGS.

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M1.01

Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

1ST FLOOR PLAN -
HVAC

ROOFTOP HEAT PUMP UNIT SCHEDULE																
Mark	CFM	FAN HP	EXT. S.P.	E.A.T (DB/WB)	L.A.T. (DB/WB)	TOT. CAP. (MBH)	SENS. CAP. (MBH)	OUTSIDE AIR (CFM)	ELECTRIC HEAT (VOLTS/Ø)	ELECTRIC HEAT CAP. (KW)	HEAT PUMP CAP. (MBH)	POWER SUPPLY (V/Ø)	EST. WEIGHT	SEER2	MANUFACTURER	MODEL NO.
RTU-1	1810	2.4	0.6	78.3/64.4	55.8/53.7	59.6	43.0	250	208/3	12	56/30	208/3	700	14.3	TEMPMASTER	WYE06A2B1
RTU-2	1550	2.4	0.6	78.6/64.6	57.3/54.6	46.6	35.7	230	208/3	12	46/26	208/3	700	14.4	TEMPMASTER	WYE05A2B1

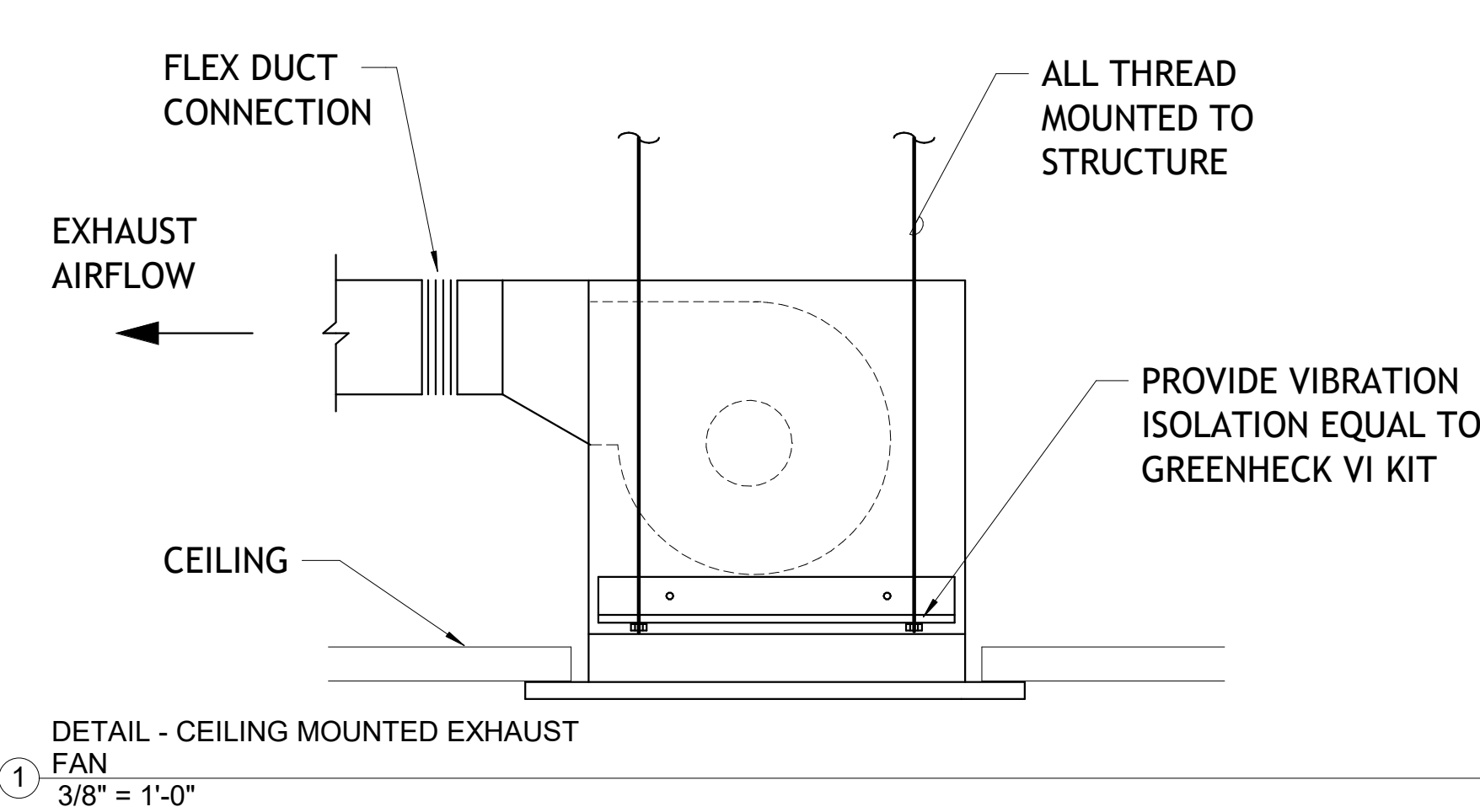
- NOTES:
1. PROVIDE MINIMUM 5-YEAR COMPRESSOR WARRANTY, INCLUDE REFRIGERANT, PARTS, AND LABOR (NON-PRORATED), FOR GAS HEAT SECTIONS, PROVIDE 10-YEAR HEAT EXCHANGER WARRANTY.
 2. PROVIDE FULLY PROGRAMMABLE 7-DAY AUTO-CHANGEOVER THERMOSTAT/CONTROLLER WITH MIN. 5° F DEADBAND, OCCUPIED/UNOCCUPIED SCHEDULING, ANTI-SHORT-CYCLE, AND SERVICE ALERTS. PROVIDE REMOTE ROOM SENSOR WHERE SHOWN.
 3. ALL COMPONENTS OF EACH HVAC SYSTEM SHALL BE FACTORY MATCHED BY THE SAME MANUFACTURER AND LISTED WITH PUBLISHED PERFORMANCE RATINGS. MIX-AND-MATCH SYSTEMS WILL NOT BE ACCEPTED.
 4. REFRIGERANT AND SAFETY: UNITS SHALL COMPLY WITH CURRENT EPA SNAP/DOE REQUIREMENTS AND UL 60335-2-40 (LATEST). WHERE A2L REFRIGERANT IS PROVIDED, FURNISH FACTORY SAFETY FEATURES, LABELING, AND INSTALLATION CLEARANCES PER MANUFACTURER AND CODE. FIELD PIPING INSIDE THE BUILDING (IF ANY) SHALL MEET APPLICABLE A2L REQUIREMENTS.
 5. PROVIDE TWO (2) COMPLETE SETS OF FILTERS PER RTU. MINIMUM MERV-13 WHERE REQUIRED BY CODE OR OWNER; OTHERWISE PROVIDE MERV-8 PREFILTER WITH MERV-13 FINAL FILTER IF AVAILABLE FOR THE MODEL SELECTED. ACCOUNT FOR FILTER STATIC IN FAN SELECTION.
 6. PROVIDE MULTI-SPEED OR VARIABLE-SPEED SUPPLY FAN CONTROL THAT REDUCES AIRFLOW DURING REDUCED COOLING STAGES; COMPLY WITH IECC 2021 SUPPLY-FAN CONTROL REQUIREMENTS. COORDINATE FAN TURNDOWN WITH COMPRESSOR STAGING TO MAINTAIN LATENT PERFORMANCE.
 7. PROVIDE CONDENSER HAIL GUARDS, AND HINGED ACCESS PANELS.
 8. PROVIDE FACTORY ROOF CURBS WITH GASKETS, INSULATION, AND DUCT SUPPORTS
 9. PROVIDE MINIMUM 2 STAGES OF HEATING & COOLING
 10. PROVIDE UNIT CONTROLLER WITH BACNET MS/TP INTERFACE--UNITS SHALL BE INTEGRATED INTO EXISTING CAMPUS TRANE ENSEMBLE BAS SYSTEM.
 11. PROVIDE BI-POLAR ION GENERATOR EQUAL TO PHENOMENAL AIRE OR GLOBAL PLASMA SOLUTIONS. UNIT SHALL BE SIZED AS RECOMMENDED BY MANUFACTURER FOR THE RTU AIRFLOW. ION GENERATOR SHALL BE SELF-CLEANING AND SHALL COMPLY WITH UL 2998. ION GENERATOR SHALL BE POWERED FROM RTU. COORDINATE FINAL CONNECTION AND INSTALLATION REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

MINI SPLIT HEAT PUMP SYSTEM SCHEDULE													
INDOOR UNIT							OUTDOOR UNIT						
Mark	BLOWER CFM	SOUND PRESSURE (DBA)	VOLTS/Ø	COOLING (MBH)	HEATING MBH@19° F	MAKE	MARK	O/A TEMP (° F)	COOLING (MBH)	EFFICIENCY	VOLTS/Ø	MAKE	MODEL
MS-1	148-459	50	208/1	13.8	10560	LG	KNSAC121A	MSHP-1	99	13.8	20.0	208/1	KUSAC121A

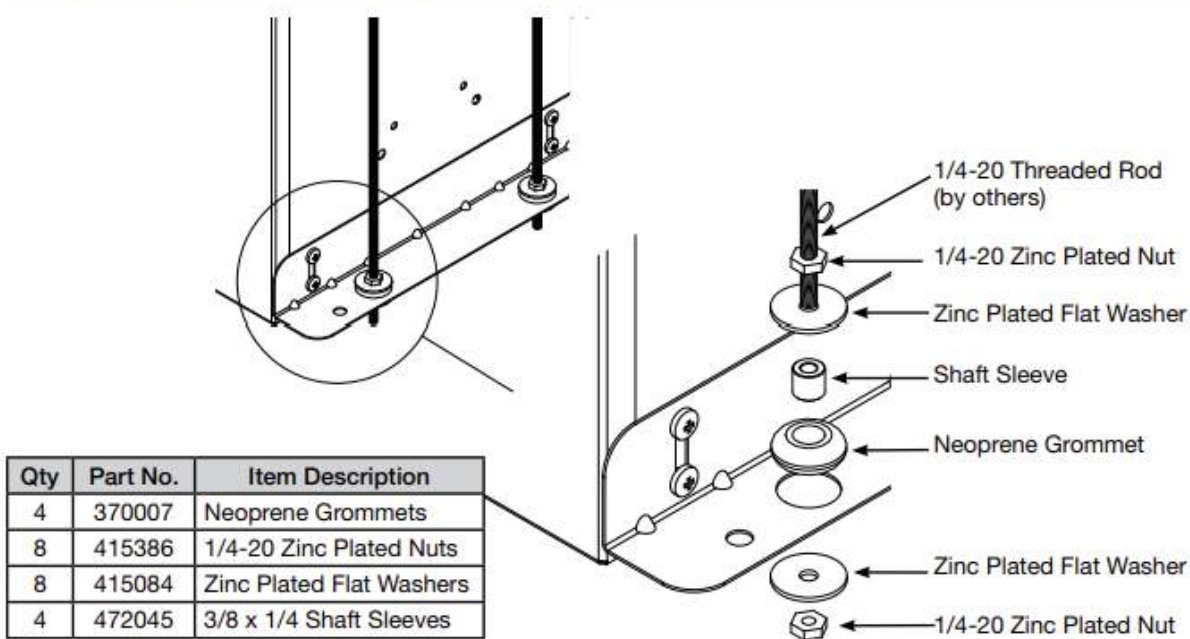
- NOTES:
1. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT VOLTAGE AND PHASE OF EACH MECHANICAL EQUIPMENT ITEM WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
 2. INDOOR UNIT SHALL BE ELECTRICALLY FED FROM OUTDOOR UNIT. COORDINATE CIRCUIT ROUTING WITH ELECTRICAL DRAWINGS.
 3. WALL-MOUNTED INDOOR UNIT. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
 4. PROVIDE MANUFACTURER-PROVIDED CONDENSATE PUMP AND ROUTE CONDENSATE DRAIN TO NEAREST APPROVED LOCATION IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS.
 5. PROVIDE LOW AMBIENT KIT FOR COOLING OPERATION TO -4° F.
 6. COORDINATE EXACT LOCATION OF OUTDOOR UNIT WITH ARCHITECTURAL AND STRUCTURAL PLANS. VERIFY CLEARANCES FOR SERVICE ACCESS, AIRFLOW, AND SNOW/DEBRIS ACCUMULATION.
 7. ALL REFRIGERANT PIPING, VALVES, AND FITTINGS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE INSULATION AND VAPOR SEAL ON REFRIGERANT LINES.
 8. PROVIDE REFRIGERANT LINE SETS WITH MINIMUM AND MAXIMUM LENGTHS, HEIGHT DIFFERENCES, AND CONNECTIONS VERIFIED WITH MANUFACTURER'S ALLOWABLE LIMITS.
 9. PROVIDE COMMUNICATION CABLES AND CONTROL WIRING BETWEEN OUTDOOR AND INDOOR UNITS PER MANUFACTURER'S REQUIREMENTS. ALL CONTROL WIRING SHALL BE RUN SEPARATE FROM POWER WIRING.
 10. LOCATE OUTDOOR UNIT ON EXISTING EQUIPMENT PAD.

FAN SCHEDULE													
Mark	MOUNTING	SERVES	CFM	EXT. S.P. (IN)	RPM	H.P. (WATTS)	VOLTS/PHASE	MANUFACTURER	MODEL NUMBER	SONES	DRIVE	REMARKS	INTERLOCK
EF-1	CEILING	TOILET	80	0.5	777	(30)	120/1	GREENHECK	SP-A200	2.5	DIRECT	PROVIDE DISCONNECT SWITCH; BACKDRAFT DAMPER; WHITE CEILING GRILLE; FAN SPEED CONTROLLER; HANGERS W/VIBRATION ISOLATION	W/LIGHT SWITCH
EF-2	CEILING	TOILET	80	0.5	777	(30)	120/1	GREENHECK	SP-A200	2.5	DIRECT	PROVIDE DISCONNECT SWITCH; BACKDRAFT DAMPER; WHITE CEILING GRILLE; FAN SPEED CONTROLLER; HANGERS W/VIBRATION ISOLATION	W/LIGHT SWITCH
EF-3	CEILING	TOILET	80	0.5	777	(30)	120/1	GREENHECK	SP-A200	2.5	DIRECT	PROVIDE DISCONNECT SWITCH; BACKDRAFT DAMPER; WHITE CEILING GRILLE; FAN SPEED CONTROLLER; HANGERS W/VIBRATION ISOLATION	W/LIGHT SWITCH

AIR TERMINAL SCHEDULE						
Type Mark	AIR DEVICE TYPE	AIR DEVICE MOUNTING	MATERIAL	MANUFACTURER & MODEL	AIR DEVICE COLOR & FINISH	AIR DEVICE REMARKS
D1	24" X 24" SQUARE SUPPLY DIFFUSER	CEILING	STEEL	TITUS TMS-AA	BAKED WHITE ENAMEL	24" X 24" SQUARE CEILING DIFFUSER; 360° PATTERN WITH 3 CONES; 4-WAY THROW UNLESS NOTED OTHERWISE; NECK SIZE TO MATCH BRANCH DUCT SIZE INDICATED ON DRAWINGS.
D2	12" X 12" SQUARE SUPPLY DIFFUSER	CEILING	STEEL	TITUS	BAKED WHITE ENAMEL	12" X 12" SQUARE CEILING DIFFUSER; 360° PATTERN WITH 3 CONES; 4-WAY THROW UNLESS NOTED OTHERWISE; NECK SIZE TO MATCH BRANCH DUCT SIZE INDICATED ON DRAWINGS.
G1	RECTANGULAR RETURN GRILLE	CEILING	ALUMINUM CORE W/STEEL FRAME	PRICE 80	BAKED WHITE ENAMEL	24" X 24" PANEL; ALUMINUM EGG CRATE CORE 1/2" SQUARE BY 1/2" DEEP W/0° DEFLECTION; STEEL FRAME
G2	RECTANGULAR RETURN GRILLE	CEILING	ALUMINUM CORE W/STEEL FRAME	PRICE 80	BAKED WHITE ENAMEL	12" X 12" PANEL; ALUMINUM EGG CRATE CORE 1/2" SQUARE BY 1/2" DEEP W/0° DEFLECTION; STEEL FRAME
G3	RECTANGULAR RETURN GRILLE	CEILING	ALUMINUM CORE W/STEEL FRAME	PRICE 80	BAKED WHITE ENAMEL	24" X 12" PANEL; ALUMINUM EGG CRATE CORE 1/2" SQUARE BY 1/2" DEEP W/0° DEFLECTION; STEEL FRAME



Hanging Vibration Isolator Parts List



HVAC LEGEND

ⓘ	THERMOSTAT
⊗	CONNECT TO EXISTING
AFF	ABOVE FINISHED FLOOR
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
O/A	OUTSIDE AIR
—D—	DRAIN LINE
VTR	VENT THROUGH ROOF
EF	EXHAUST FAN
AHU	AIR HANDLING UNIT
HP	HEAT PUMP
U/G	UNDERGROUND
U/S	UNDER SLAB
U/F	UNDER FLOOR
UNO	UNLESS NOTED OTHERWISE
TYP	TYPICAL
⬠FD	FIRE DAMPER
	INTERNALLY LINED DUCTWORK
	SUPPLY DIFFUSER AND DUCTWORK
	RETURN GRILLE OR DUCTWORK
	EXHAUST GRILLE OR DUCTWORK
	MANUAL BALANCING DAMPER
	AUTOMATIC MOTORIZED DAMPER
	90° ELBOW WITH TURNING VANES
	LINEAR SLOT DIFFUSER
AFF	ABOVE FINISHED FLOOR
RS ; RL	REFRIGERANT SUCTION ; REFRIGERANT LIQUID
Ⓣ	TEMPERATURE SENSOR
ⓓ	HUMIDITY SENSOR
Ⓜ	HUMIDISTAT
CO2	CARBON DIOXIDE SENSOR

NOTE: SOME SYMBOLS MAY NOT BE USED.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
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Lakeshore Office Renovation and Canopy
Repair

550 Balboa Dr, Monroe, LA

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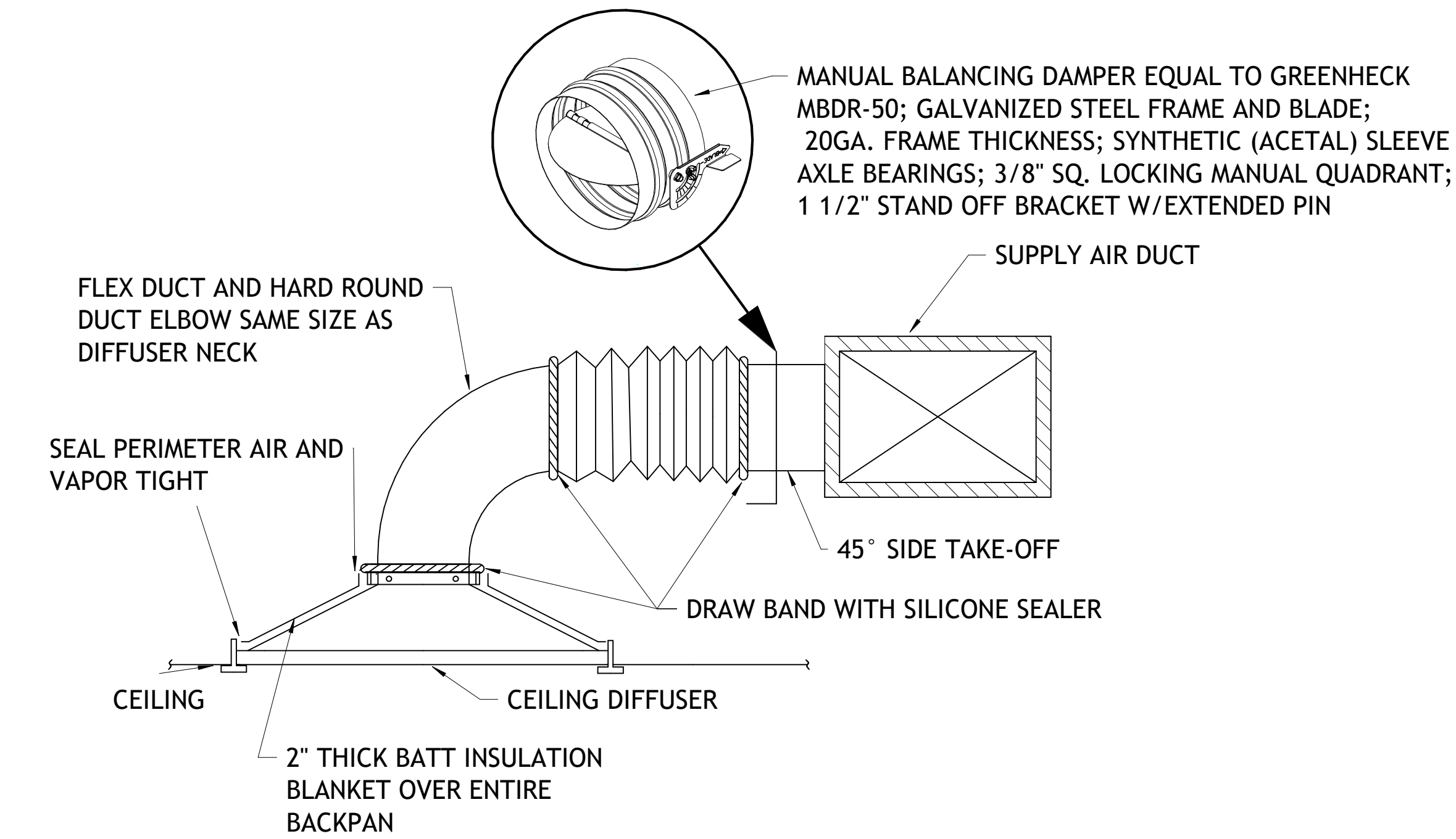
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Project No.: 25-WM0039

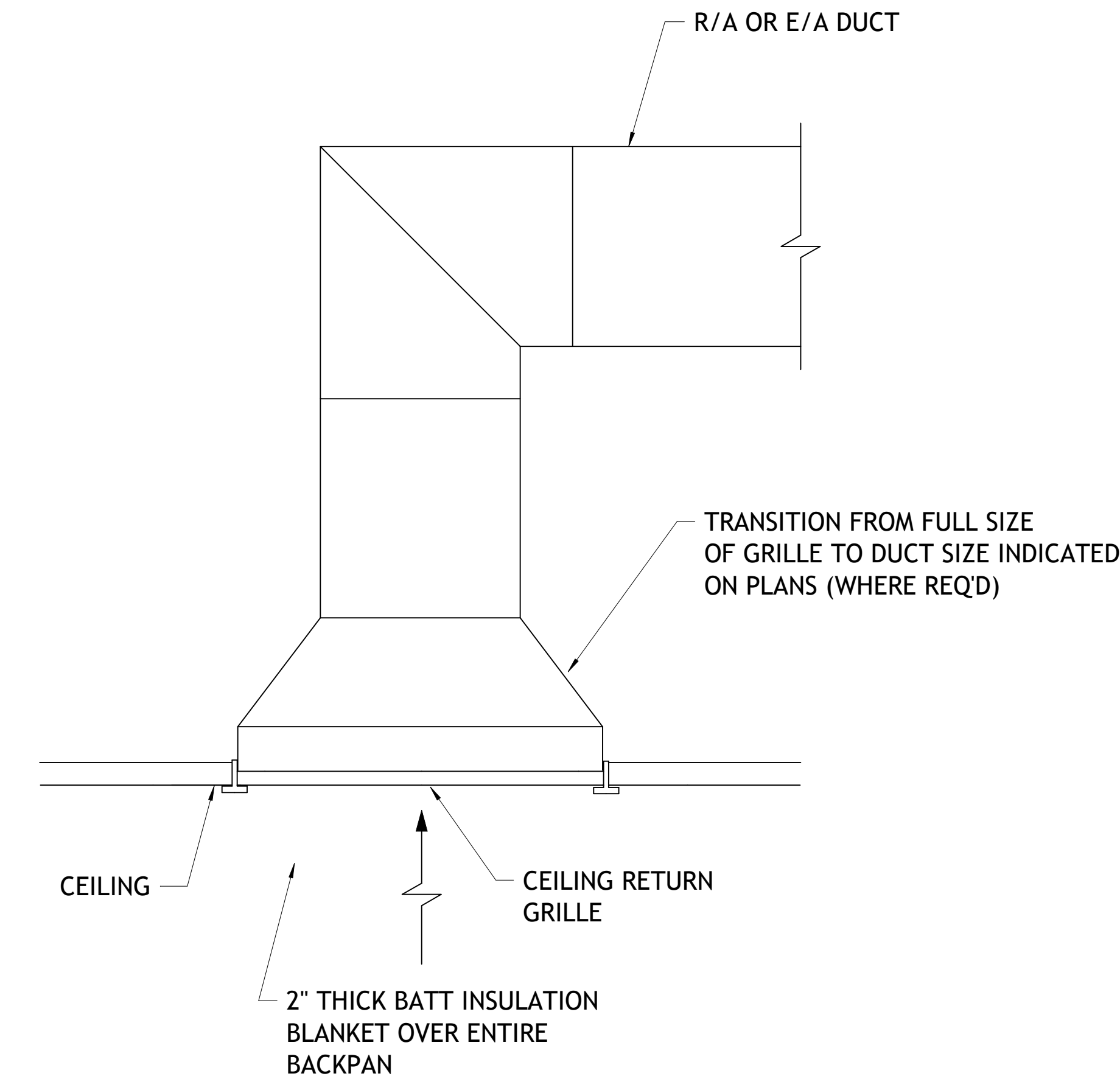
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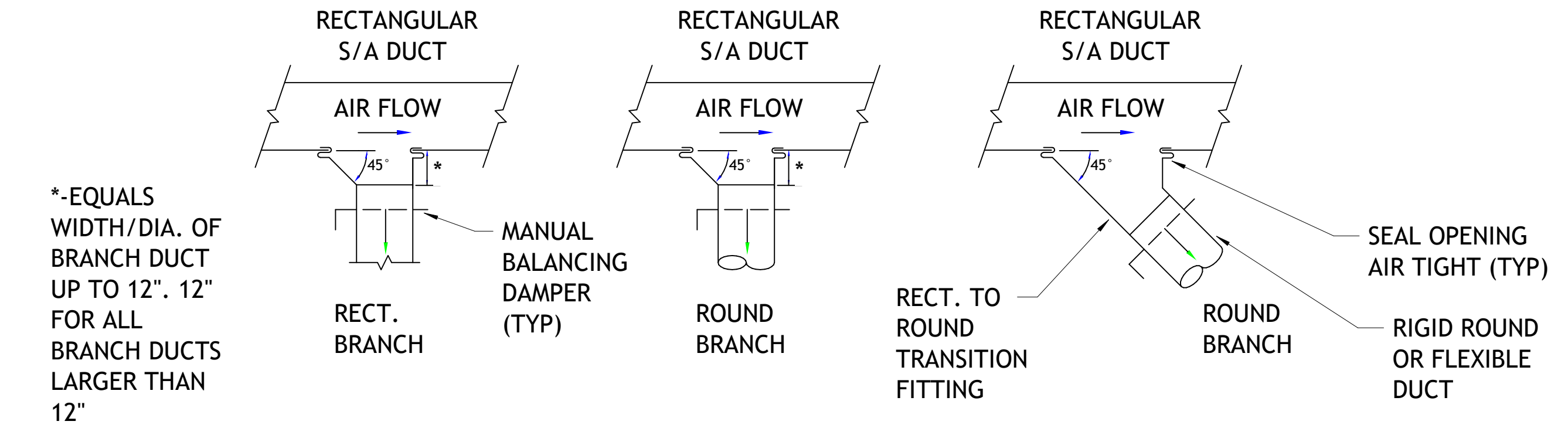
MECHANICAL
SCHEDULES &
DETAILS



1 DETAIL - DIFFUSER CONNECTION
NO SCALE



3 DETAIL - RETURN GRILLE
NO SCALE



*-EQUALS
WIDTH/DIA. OF
BRANCH DUCT
UP TO 12". 12"
FOR ALL
BRANCH DUCTS
LARGER THAN
12"

2 DETAIL - LOW PRESSURE DUCT TAKE-OFFS
NO SCALE

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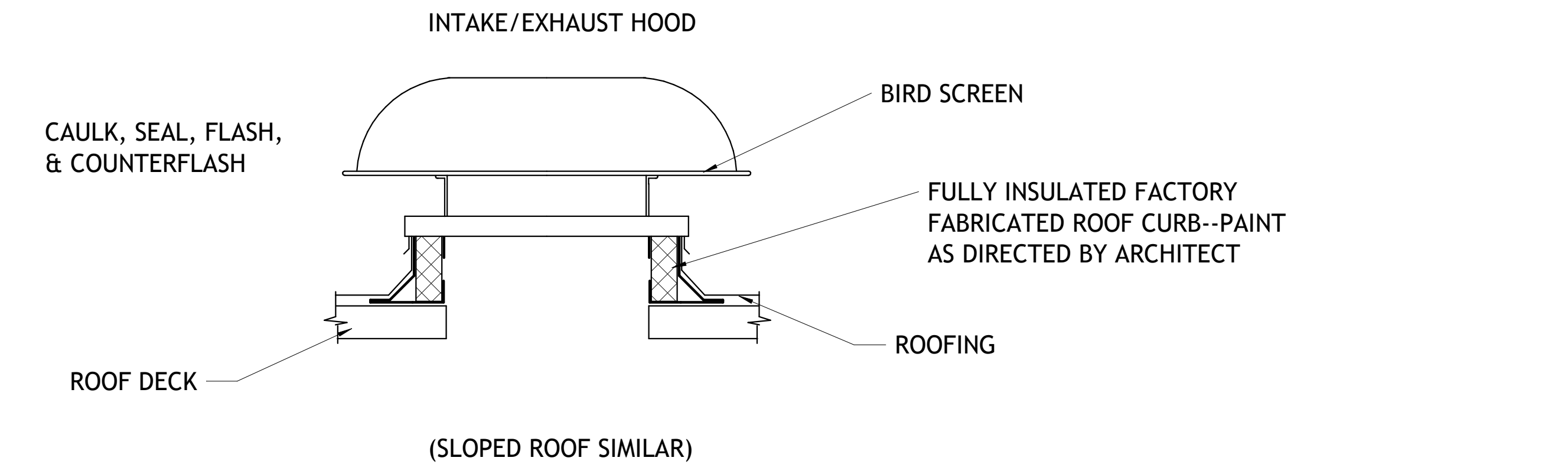
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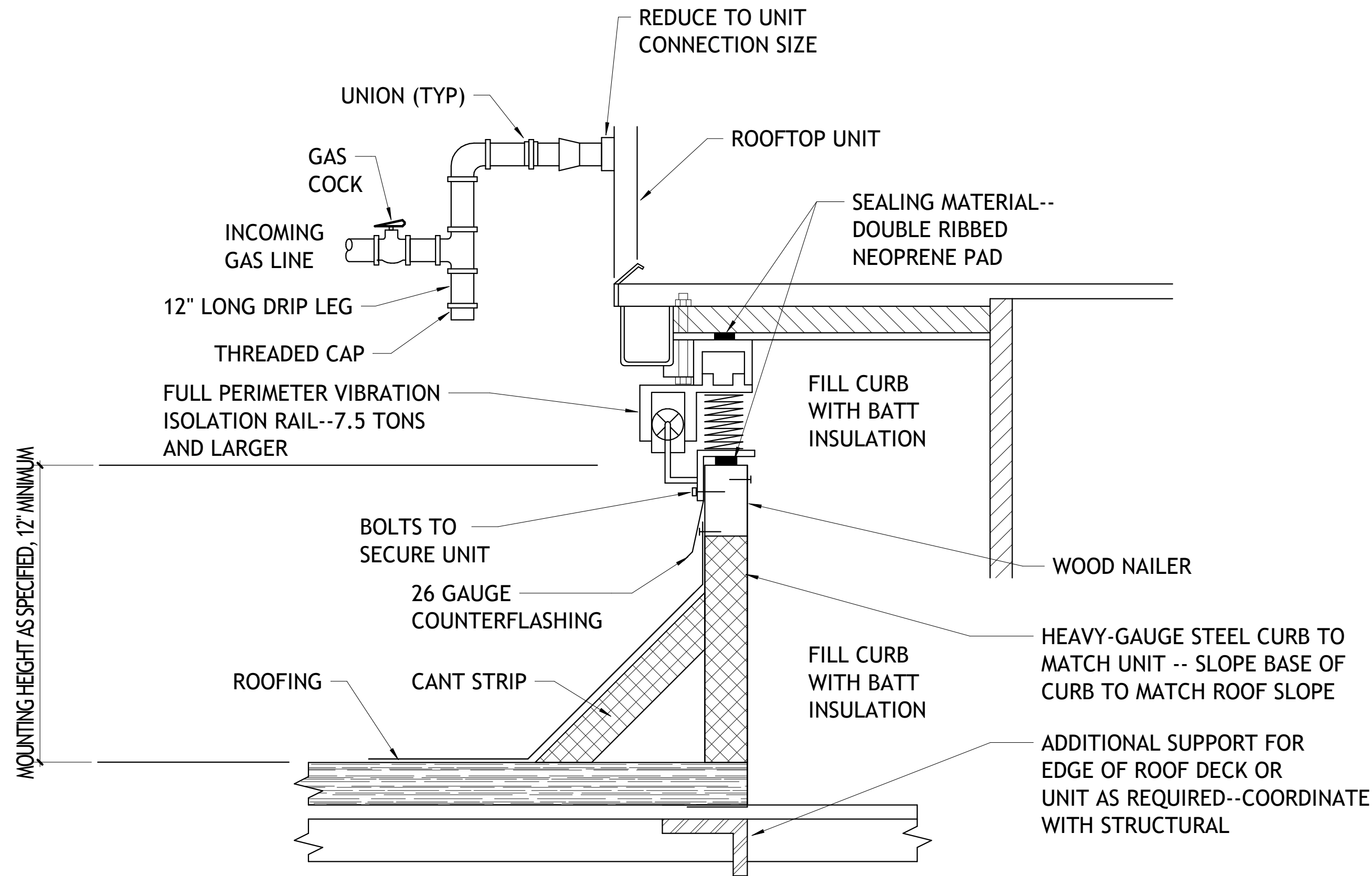
Project No.: 25-WM0039

File Name:

DESCRIPTION:
MECHANICAL
SCHEDULES &
DETAILS



1 DETAIL - INTAKE/EXHAUST HOOD
NO SCALE



2 DETAIL - RTU MOUNTING
NO SCALE

GENERAL HVAC NOTES

1	PROVIDE DUCT DROPS TO RETURN/EXHAUST GRILLES FULL SIZE OF GRILLE. PAINT INSIDE OF DUCT VISIBLE FROM ROOM FLAT BLACK.
2	DUCT SIZES ON DRAWINGS INDICATE INSIDE FREE AREA. ROUND DUCT MAY BE USED IN LIEU OF RECTANGULAR WHERE SUFFICIENT SPACE EXISTS.
3	COORDINATE THE EXACT LOCATION AND MOUNTING OF CEILING AIR DEVICES (DIFFUSERS/GRILLES) WITH LIGHT FIXTURE LOCATIONS AND REFLECTED CEILING PLAN (INCLUDING CEILING TYPE). WHERE A CONFLICT BETWEEN LIGHTING FIXTURES AND AIR DEVICES EXISTS, LIGHTING FIXTURES SHALL TAKE PRIORITY.
4	COORDINATE THE EXACT LOCATIONS OF ALL HVAC EQUIPMENT WITH OTHER TRADES AND LOCATE EQUIPMENT SO AS TO ENSURE THAT THE MANUFACTURER'S RECOMMENDED CLEARANCES ARE PROVIDED FOR PROPER EQUIPMENT PERFORMANCE AND ACCESS. PROVIDE MINOR ADJUSTMENT OF EQUIPMENT AS REQUIRED.
5	PROVIDE FULL-SIZE PROPERLY-TRAPPED TYPE "L" HARD COPPER CONDENSATE DRAIN PIPING FROM EACH AIR HANDLING UNIT AND TERMINATE OPEN-SIGHT AT LOCATION INDICATED ON THE DRAWING. MINIMUM PIPE SIZE SHALL BE 1" UNLESS NOTED OTHERWISE. PROVIDE TEE FITTINGS AND THREADED CAPS (FOR CLEANOUT) AT ALL CHANGES OF DIRECTION.
6	DUCT MOUNTED SMOKE DETECTORS (WHERE INDICATED) SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND CONNECTED TO THE FIRE ALARM SYSTEM BY THE FIRE ALARM CONTRACTOR.
7	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT QUANTITY AND LOCATION OF ALL FIRE DAMPERS REQUIRED, WHETHER INDICATED ON THE PLANS OR NOT. COORDINATE THE EXACT REQUIREMENTS WITH THE ARCHITECTURAL PLANS AND SPECIFICATIONS PRIOR TO BID.
8	THIS CONTRACTOR SHALL PROVIDE AN HVAC SYSTEM IN STRICT COMPLIANCE WITH THE LATEST APPLICABLE EDITIONS OF NFPA 101, NFPA 72, THE IECC, THE IMC, AND ALL OTHER APPLICABLE CODES AND LOCAL ORDINANCES.
9	PRE-CHARGED LINE SETS ARE NOT PERMITTED. REFRIGERANT PIPING SHALL BE FIELD-INSTALLED AND PRESSURE-TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE MECHANICAL CODES AND THE MANUFACTURER'S REQUIREMENTS. LINE SETS SHALL BE EVACUATED, CHARGED, AND VERIFIED FOR LEAKS ON-SITE.
10	ROUTE REFRIGERANT SUCTION AND LIQUID PIPING THROUGH PVC SLEEVE EMBEDDED AND SEALED IN EXTERIOR WALL APPROXIMATELY 12" ABOVE EQUIPMENT PAD. THOROUGHLY SEAL ANNULAR SPACE AROUND PIPING WITH HIGH-QUALITY, WEATHER-RESISTANT EXPANDING SILICONE FOAM TO ENSURE AIRTIGHT AND WATERTIGHT PENETRATION. INSIDE BUILDING, ROUTE REFRIGERANT PIPING CONCEALED WITHIN WALL CAVITY AND ABOVE CEILING SPACE DIRECTLY TO FAN COIL UNIT. PIPE SIZING SHALL BE BASED ON EQUIPMENT MANUFACTURER'S LATEST PUBLISHED GUIDELINES AND RECOMMENDATIONS. CONTRACTOR SHALL FIELD VERIFY ALL INSTALLATION CONDITIONS PRIOR TO CONSTRUCTION.
11	PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR-MOUNTED MECHANICAL (HVAC & PLUMBING) IN THE BUILDING, AND PROVIDE A 6" THICK CONCRETE HOUSEKEEPING PAD FOR ALL EXTERIOR HVAC EQUIPMENT MOUNTED ON GRADE.
12	PROVIDE CEILING-MOUNTED REMOTE OPERATORS FOR ALL DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS. OPERATORS SHALL BE SIMILAR TO YOUNG REGULATOR CABLE CONTROL TYPE OR ENGINEER-APPROVED EQUIVALENT. PAINT ALL EXPOSED COVERS AND TRIM TO MATCH ADJACENT CEILING FINISH FOR SEAMLESS APPEARANCE.
13	PROVIDE FLEXIBLE DUCT CONNECTIONS AT ALL AIR HANDLING UNITS, RTUs, PAHUs, EXHAUST FANS, ETC.
14	PROVIDE ALL NECESSARY DUCT OFFSETS AND ROUTING ADJUSTMENTS TO ENSURE A MINIMUM OF 15'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ANY PLUMBING VENTS, EXHAUST AIR OUTLETS, OR OTHER SOURCES OF CONTAMINATION. FIELD VERIFY AND COORDINATE EXACT LOCATIONS WITH ARCHITECT AND ENGINEER PRIOR TO ORDERING MATERIALS OR COMMENCING INSTALLATION.
15	COORDINATE THE EXACT LOCATIONS OF ALL THERMOSTATS WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
16	INSTALL ALL EQUIPMENT, PIPING, DUCTWORK, SUPPORTS, INSERTS, AND OTHER COMPONENTS THAT ATTACH TO STRUCTURAL ELEMENTS PRIOR TO APPLICATION OF FIREPROOFING. CLOSELY COORDINATE SEQUENCE AND TIMING OF INSTALLATION WITH ALL OTHER TRADES TO AVOID CONFLICTS OR DAMAGE TO APPLIED FIREPROOFING.
17	EQUIPMENT LOCATIONS INDICATED ON THESE PLANS ARE GENERAL AND APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY AND CLOSELY COORDINATE THE EXACT LOCATIONS OF ALL EQUIPMENT, INCLUDING ASSOCIATED DUCTWORK ROUTING AND PENETRATIONS, WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION AND INSTALLATION.
18	PROVIDE FLEXIBLE DUCTWORK RATED CLASS 1 IN STRICT ACCORDANCE WITH UL 181 REQUIREMENTS. FLEX DUCT SHALL HAVE A MAXIMUM INSTALLED LENGTH OF 6 FEET AND SHALL MATCH OR EXCEED CHARACTERISTICS OF FLEXMASTER U.S.A 1M. FLEXIBLE DUCT SHALL BE PRE-INSULATED WITH MINIMUM R8 FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, AND POLYETHYLENE INNER LINER WITH EMBEDDED HELICAL STEEL WIRE REINFORCEMENT. FLEXIBLE DUCT SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50.
19	ALL INSULATION MATERIALS SHALL BE HIGH-QUALITY PRODUCTS AS MANUFACTURED BY ARMSTRONG, CERTAINTED, OWENS-CORNING, JOHNS MANVILLE, OR ENGINEER-APPROVED EQUAL. VERIFY THAT ALL EQUIPMENT AND MATERIALS TO RECEIVE INSULATION HAVE BEEN TESTED, INSPECTED, AND FULLY APPROVED PRIOR TO INSULATION INSTALLATION. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S RECOMMENDED PROCEDURES AND INDUSTRY BEST PRACTICES.
20	DIMENSIONS AND WEIGHTS OF HVAC EQUIPMENT SHOWN ON PLANS ARE BASED ON MANUFACTURER'S PUBLISHED DATA AND ARE FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL OBTAIN EXACT EQUIPMENT WEIGHTS FROM APPROVED SUBMITTALS AND VERIFY STRUCTURAL SUPPORT REQUIREMENTS WITH THE STRUCTURAL ENGINEER PRIOR TO EQUIPMENT INSTALLATION. REPORT ANY DISCREPANCIES IMMEDIATELY.
21	THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL, INCLUDING ALL NECESSARY MATERIALS, LABOR, EQUIPMENT, AND SERVICES REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

TBA

Lakeshore Office Renovation and Canopy
Repair

550 Balboa Dr, Monroe, LA

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Project No.: 25-WM0039

File Name:

DESCRIPTION:

MECHANICAL
SCHEDULES &
DETAILS

MECHANICAL SPECIFICATIONS:

PART 1 - GENERAL PROVISIONS

- 1.1 SCOPE: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND SERVICES NECESSARY TO COMPLETE THE MECHANICAL INSTALLATION AS INDICATED ON DRAWINGS AND SPECIFICATIONS.
- 1.2 WORK INCLUDES HVAC EQUIPMENT, AIR DISTRIBUTION SYSTEMS, EXHAUST SYSTEMS, INSULATION, AND ALL ASSOCIATED CONTROLS AND ACCESSORIES.
- 1.3 ALL WORK SHALL CONFORM TO APPLICABLE BUILDING CODES INCLUDING 2021 INTERNATIONAL MECHANICAL CODE (IMC), 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), NFPA 90A, ASHRAE 62.1, ASHRAE 90.1, AND LOCAL AUTHORITIES HAVING JURISDICTION (AHJ).
- 1.4 PROVIDE COMPLETE MECHANICAL SYSTEMS AS INDICATED ON DRAWINGS AND SPECIFICATIONS.
- 1.5 CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 1.6 PROVIDE SHOP DRAWINGS, PRODUCT DATA, AND CUT SHEETS FOR ALL HVAC EQUIPMENT, DUCTWORK, INSULATION, FIRE DAMPERS, CONTROLS SYSTEMS COMPONENTS, DAMPERS, LOUVERS, AND OTHER REQUIRED MATERIALS FOR ARCHITECT/ENGINEER APPROVAL PRIOR TO ORDERING MATERIALS.
- 1.7 COORDINATE WORK WITH OTHER TRADES TO PREVENT INTERFERENCE WITH OTHER BUILDING SYSTEMS.
- 1.8 ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED MECHANICAL CONTRACTORS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE, MEETING THE REQUIREMENTS OF THE LATEST APPLICABLE EDITION OF THE INTERNATIONAL MECHANICAL CODE, ASHRAE STANDARDS, AND SMACNA STANDARDS. ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION SHALL BE PURCHASED AND OBTAINED UNDER THIS CONTRACT.
- 1.9 CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS.
- 1.10 PROVIDE IDENTIFICATION OF ALL PIPES, VALVES, AND EQUIPMENT. IDENTIFICATION DEVICES TO BE USED SHALL INCLUDE THE FOLLOWING:
 - PLASTIC PIPE MARKERS
 - VALVE TAGS AND EQUIPMENT TAGS
 - VALVE SCHEDULE

PART 2 - MATERIALS

- 2.1 ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIALS OF EQUAL QUALITY BY OTHER RECOGNIZED COMMERCIAL MANUFACTURERS SHALL BE PERMITTED ONLY IF APPROVED IN WRITING BY THE ARCHITECT AND ENGINEER. CONTRACTOR SHALL SUBMIT A FORMAL SUBSTITUTION REQUEST WITH SUPPORTING DOCUMENTATION FOR REVIEW.
- 2.2 DUCTWORK:

GALVANIZED SHEET METAL DUCTWORK SHALL MEET SMACNA HVAC DUCT CONSTRUCTION STANDARDS, LATEST EDITION, METAL AND FLEXIBLE. CONSTRUCT DUCTWORK TO MEET ALL FUNCTIONAL CRITERIA DEFINED IN NFPA 90A, NFPA 90B, AND SMACNA DUCT CONSTRUCTION STANDARDS. RECTANGULAR LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED AND REINFORCED FOR 2" W.G.

RECTANGULAR DUCTS SHALL BE REINFORCED FOR 2" W.G. AND CONSTRUCTED WITH PITTSBURG LOCK SEAMS SEALED WITH MASTIC. SNAPLOCK JOINTS ARE NOT PERMITTED.MITERED ELBOWS SHALL INCLUDE DOUBLE-THICKNESS TURNING VANES OR BE LONG-RADIUS SWEEP TYPE. COMBINATION ELBOWS ARE NOT ACCEPTABLE.

FLEXIBLE AIR DUCTS SHALL COMPLY WITH UL 181, CLASS 1 WITH FIBERGLASS INSULATION AND VAPOR BARRIER.

ALL DUCTWORK SHALL BE SEALED PER IECC 2021 REQUIREMENTS FOR DUCT SEALING AND AS PRESCRIBED IN SMACNA STANDARDS.

PROVIDE DUCT SUPPORTS FOR HORIZONTAL AND VERTICAL DUCTS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

SUPPORT FLEXIBLE DUCTS AT MAXIMUM 36" O.C. USING 3/4" WIDE FLAT BANDING MATERIAL. INSTALL WITHOUT SAGGING OR KINKS. PERFORATED STRAP IS NOT ACCEPTABLE.

FOR ALL SUPPLY AND RETURN DUCTWORK NOTED ON THE PLANS WITH DASHED LINES, PROVIDE INTERNAL DUCTLINER, 1" THICK, 1-1/2 POUNT PER CUBIC FOOT. PROVIDE INTERNAL LINER FOR EXPOSED DUCTWORK IN MECHANICAL ROOMS.

DUCTWORK DIMENSIONS PROVIDED IN THE DRAWINGS ARE INSIDE FREE AREA.
- 2.3 AIR DISTRIBUTION DEVICES:

SUPPLY AND RETURN DIFFUSERS SHALL BE ALUMINUM OR STEEL WITH A BAKED ENAMEL FINISH. PRICE INDUSTRIES OR TITUS MODELS AS INDICATED ON DRAWINGS OR EQUIVALENT BY ENGINEER APPROVAL.

SLOT DIFFUSERS SHALL BE EXTRUDED ALUMINUM WITH FACTORY-APPLIED POWDER COAT FINISH, PRICE INDUSTRIES SDS SERIES OR EQUIVALENT APPROVED.

2.4 EXHAUST FANS:

- CEILING AND INLINE EXHAUST FANS SHALL BE GREENHECK, COOK, OR PENNBARRY, BELT OR DIRECT DRIVE AS INDICATED. FANS SHALL INCLUDE BACKDRAFT DAMPERS AND VIBRATION ISOLATION.
- PROVIDE INTEGRAL THERMAL OVERLOAD PROTECTION AND FACTORY-INSTALLED DISCONNECT SWITCH FOR CEILING OR INLINE EXHAUST FANS.
- 2.5 HVAC EQUIPMENT:

- SPLIT SYSTEM HVAC EQUIPMENT SHALL BE TRANE, CARRIER, LENNOX, OR DAIKIN, AS INDICATED, COMPLETE WITH FACTORY-INSTALLED CONTROLS, HIGH-EFFICIENCY COILS, FILTER DRIERS, LOW AMBIENT CONTROLS (IF REQUIRED), AND FACTORY-CHARGED WITH REFRIGERANT AS ALLOWED BY GOVERNMENT STANDARDS.
- OUTDOOR UNITS SHALL HAVE HIGH-EFFICIENCY SCROLL OR ROTARY COMPRESSORS, COIL GUARDS, AND BE RATED IN ACCORDANCE WITH AHRI STANDARD 210/240. MINIMUM 2-STAGE COOLING.
- INDOOR UNITS SHALL INCLUDE ECM MOTORS, CONDENSATE OVERFLOW SWITCHES, AND FACTORY-MOUNTED DRAIN PANS. AUXILIARY DRAIN PANS SHALL BE PROVIDED UNDER HORIZONTAL AIR HANDLING UNITS AND FURNACE/COIL UNITS. MINIMUM 2-STAGE COOLING. PROVIDE VIBRATION ISOLATION AND OTHER ACCESSORIES & FEATURES ARE SCHEDULED.

2.6 HVAC INSULATION:

- PROVIDE INSULATION FOR ALL HVAC PIPING, DUCTWORK, AND ASSOCIATED EQUIPMENT AS SPECIFIED HEREIN. INSULATION SHALL BE MANUFACTURED BY JOHNS MANVILLE, OWENS CORNING, OR APPROVED EQUAL.
- ALL INSULATION MATERIALS, INCLUDING JACKETS, FACINGS, AND ADHESIVES, SHALL HAVE COMPOSITE SURFACE-BURNING CHARACTERISTICS WITH A MAXIMUM FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50, IN ACCORDANCE WITH ASTM E84.
- ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK—EXCEPT INTERNALLY LINED RETURN AIR DUCTS—SHALL BE WRAPPED WITH 2" THICK, 3/4 LB/CF MINIMUM DENSITY GLASS FIBER BLANKET INSULATION, FACED WITH TYPE FRK FOIL-REINFORCED KRAFT VAPOR BARRIER JACKET. MINIMUM R-VALUE SHALL BE 8 (°F·ft²·hr/Btu).

- INTERNALLY LINED SUPPLY AIR DUCTWORK SHALL ALSO BE WRAPPED IN ADDITION TO INTERNAL LINING. INSULATION SHALL BE INSTALLED TIGHTLY AGAINST DUCT SURFACES, WITH CIRCUMFERENTIAL JOINTS BUTTED AND LONGITUDINAL JOINTS OVERLAPPED A MINIMUM OF 2".
- SECURE INSULATION TO METAL SURFACES USING 4" WIDE STRIPS OF INSULATION BONDING ADHESIVE AT 8" O.C. ON CIRCUMFERENTIAL JOINTS. FOR LONGITUDINAL JOINTS, SECURE OVERLAPS USING 9/16" FLARED DOOR STAPLES AT 6" O.C., THEN TAPE WITH A MINIMUM 3" WIDE FOIL-REINFORCED KRAFT TAPE.
- ALL PIN PENETRATIONS OR TEARS IN THE VAPOR BARRIER SHALL BE TAPED. TAPE ALL CIRCUMFERENTIAL JOINTS USING 4" WIDE FOIL-REINFORCED KRAFT TAPE.
- REFRIGERANT PIPING SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC CLOSED-CELL INSULATION, ASTM C534. COAT WITH WATER BASED LATEX ENAMEL COATING AS RECOMMENDED BY THE MANUFACTURER.
- ALL INSULATION OUTSIDE, EXPOSED TO WEATHER SHALL BE COVERED WITH A 0.024" ALUMINUM METAL JACKET.
- INSULATION THICKNESS SHALL BE AS REQUIRED BY THE 2021 IECC AND THE INTERNATIONAL MECHANICAL CODE.

2.7 CONTROLS AND ACCESSORIES:

- ALL THERMOSTATS SHALL BE PROGRAMMABLE, 7-DAY WITH AUTO-CHANGEOVER. HONEYWELL, JOHNSON CONTROLS, OR APPROVED EQUAL.
- PROVIDE ALL LOW-VOLTAGE WIRING AND CONTROL COMPONENTS AS REQUIRED FOR COMPLETE OPERATION OF HVAC SYSTEMS.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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550 Balboa Dr., Monroe, LA

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MECHANICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS CONTINUED:

2.8 DRAIN AND RELIEF PIPING:

CONDENSATE DRAIN PIPING, AUXILIARY DRAIN PIPING, EQUIPMENT DRAINS, APPLIANCE DRAIN PIPING AND WATER HEATER RELIEF PIPING SHALL BE TYPE "L" HARD DRAWN COPPER PIPING WITH SOLDERED JOINTS. PROVIDE PIPE SUPPORTS AT INTERVALS AS REQUIRED BY THE INTERNATIONAL MECHANICAL CODE. ALL DRAIN PIPING SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. THE SIZE OF CONDENSATE DRAIN PIPING SHALL BE AS INDICATED ON THE DRAWINGS. WHERE NO SIZE IS INDICATED, THE FOLLOWING SIZES SHALL APPLY:

COIL NOMINAL TONNAGE	COPPER PIPE SIZE
UP TO 2	3/4"
2-1/2 TO 5	1"
6 TO 14	1-1/4"
15 TO 30	1-1/2"
30 TO 100	2"

2.9 REFRIGERATION PIPING:

REFRIGERATION PIPING SHALL BE TYPE "L" HARD DRAWN COPPER PER ASTM B-88; REFRIGERATION PIPING IN CONCEALED WALLS AND CHASES/FURRINGS SHALL BE TYPE "L" SOFT COPPER WITH LONG RADIUS BENDS, WITHOUT JOINTS. FITTINGS AND JOINTS SHALL BE MADE WITH SILVER-FOS SOLDER.

PROVIDE THE FOLLOWING AT REFRIGERANT COILS AND CONDENSING UNITS/HEAT PUMPS:

STRAINER-DRYER COMBINATION

LIQUID LINE SOLENOID VALVES

THERMOSTATIC EXPANSION VALVES AND ACCESSORIES EQUAL TO ALCO, INC. OR APPROVED EQUAL

DISTRIBUTORS FOR MULTISTAGE UNITS SUITABLE FOR MODULATING FLOW, EQUAL TO ALCO, INC. OR APPROVED EQUAL

SPECIALTIES AS REQUIRED FOR SYSTEM OPERATION INCLUDING SOLENOID VALVES, SIGHT GLASSES, ACCUMULATORS, AND FILTER/DRYERS.

PIPING SHALL BE TESTED FOR FOUR (4) HOURS WITH 500 PSIG ON HIGH/LOW SIDE, USING NITROGEN AND ANHYDROUS CARBON DIOXIDE. REFRIGERANT CHARGE SHALL BE PROVIDED AS REQUIRED AFTER THE PIPING SYSTEM HAS BEEN PRESSURE TESTED AND THEN DRAWN DOWN TO A VACUUM OF 50 MICRONS FOR 12 HOURS. HALIDE TORCH TEST EACH JOINT AFTER CHARGING.

PRE-CHARGED LINE SETS SHALL NOT BE ACCEPTABLE.

2.10 PIPE SPECIALTIES:

PROVIDE ALL-BRONZE UNIONS FOR COPPER PIPING SYSTEMS AND MALLEABLE IRON UNIONS WITH GROUND JOINTS FOR STEEL PIPING SYSTEMS. PROVIDE DIELECTRIC UNIONS FOR CONNECTIONS BETWEEN DISSIMILAR METALLIC PIPING MATERIALS.

ESCUTCHEONS SHALL BE ONE-PIECE, CHROME-PLATED, SET SCREW TYPE. PROVIDE ESCUTCHEONS TO FULLY COVER PENETRATIONS AND SLEEVES.

2.11 FIRE DAMPERS:

FIRE DAMPERS SHALL COMPLY WITH UL 555, WITH APPROPRIATE FIRE RATING TO MATCH WALL, FLOOR, OR CEILING RATING. INSTALL IN ALL DUCT PENETRATIONS THROUGH RATED ASSEMBLIES. PROVIDE A DUCT ACCESS PANEL FOR EACH FIRE DAMPER.

2.12 SUPPORTS AND ANCHORS:

MANUFACTURERS: GRINNELL, B-LINE, O.Z. GEDNEY, MICHIGAN HANGER, BERGEN/CARPENTER AND PATERSON.

USE MATERIALS COMPATIBLE WITH PIPING SYSTEMS AVOIDING ELECTROLYTIC ACTION AND CONFORM TO ANSI/ASME B31, NFPA, MSS SP-58, 69, 89.

2.13 DUCT SMOKE DETECTORS:

PROVIDE DUCT SMOKE DETECTORS IN THE RETURN AND SUPPLY AIR DUCTWORK OF EACH RECIRCULATING AIR UNIT WITH A NOMINAL CAPACITY OF 2,000 CFM OR GREATER. ALSO PROVIDE IN UNITS UNDER 2,000 CFM IF SERVING EGRESS AREAS. EACH DETECTOR SHALL INCLUDE SUPERVISORY RELAYS AND A REMOTE TEST STATION TO ACTIVATE AN ALARM HORN (EQUAL TO SIMPLEX #4901-9822) AND VISUAL SIGNAL (EQUAL TO WHEELock AC-MAX-C), AND TO SHUT DOWN THE ASSOCIATED FAN.

SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE, EQUAL TO SIMPLEX #4098-9687 WITH FULL-WIDTH DUCT SAMPLING TUBE, AND INCLUDE A REMOTE TEST STATION EQUAL TO SIMPLEX #4098-9842. PROVIDE RELAYS EQUAL TO SIMPLEX 2088-9008 TO INITIATE HORN/STROBE DEVICES.

ALL INSTALLATIONS SHALL COMPLY WITH NFPA 90A.

REMOTE TEST STATIONS AND ALARM HORNS SHALL BE INSTALLED IN OCCUPIED SPACES. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER. PROVIDE LAMINATED PHENOLIC LABELS WITH THE FOLLOWING ENGRAVING:

"DUCT SMOKE ALARM"
"UNIT DESIGNATION"

FOR INSTALLATIONS WHERE DETECTORS MUST BE LOCATED OUTDOORS OR IN HARSH ENVIRONMENTS, PROVIDE A WEATHERPROOF DUCT DETECTOR HOUSING EQUAL TO SIMPLEX #4098-9845.

IF A NEW OR MODIFIED FIRE ALARM SYSTEM IS INCLUDED IN THE PROJECT, DUCT SMOKE DETECTORS AND ASSOCIATED DEVICES SHALL BE FURNISHED AND CONNECTED BY THE FIRE ALARM SUBCONTRACTOR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE DETECTORS IN THE DUCTWORK.

2.14 DAMPERS:

2.14.1 AUTOMATIC DAMPERS

MODULATING DAMPERS SHALL BE OPPOSED BLADE TYPE WITH INDIVIDUAL BLADE WIDTHS NOT EXCEEDING 6". DAMPERS SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL AND RIGIDLY FABRICATED TO PREVENT DISTORTION. PROVIDE NEOPRENE BLADE EDGES. MAXIMUM LEAKAGE RATE SHALL NOT EXCEED 5% AT OPERATING PRESSURE CONDITIONS.

DAMPER OPERATORS SHALL BE QUIET, REVERSING TYPE, OIL-IMMERSED, AND SIZED TO HANDLE THE ANTICIPATED OPERATING LOAD. MOTORS SHALL COMPLY WITH CONTROL SEQUENCE REQUIREMENTS.

2.14.1 MANUAL BALANCING DAMPERS

PROVIDE MANUAL BALANCING DAMPERS AS FOLLOWS:

TYPE: OPPOSED BLADE FOR RECTANGULAR DUCTS; SINGLE-BLADE FOR ROUND DUCTS

CONSTRUCTION: MINIMUM 20 GAUGE GALVANIZED STEEL FRAME AND BLADES

BLADES: MULTI-BLADE, PARALLEL OR OPPOSED ACTION AS REQUIRED FOR SYSTEM BALANCING; BLADES SHALL BE AERODYNAMICALLY SHAPED TO MINIMIZE AIRFLOW RESISTANCE

AXLES: 1/2" PLATED STEEL

BEARINGS: SELF-LUBRICATING NYLON END BEARINGS FOR SMOOTH OPERATION AND REDUCED NOISE

SEALS: BLADE EDGE AND JAMB SEALS SHALL BE PROVIDED TO LIMIT AIR LEAKAGE TO A MAXIMUM OF 6 CFM PER SQ FT AT 1" WG STATIC PRESSURE, IN ACCORDANCE WITH AMCA 500-D CLASS 1A PERFORMANCE (WHERE APPLICABLE)

OPERATOR: INCLUDE LOCKING QUADRANT WITH POSITION INDICATOR, ACCESSIBLE WITHOUT REMOVING DUCT INSULATION

INSTALLATION: LOCATE DAMPERS AS INDICATED ON DRAWINGS OR AS REQUIRED FOR COMPLETE AIR BALANCING OF ALL BRANCHES AND TERMINALS.

ALL DAMPERS SHALL BE CAPABLE OF HOLDING ANY ADJUSTED POSITION AGAINST SYSTEM PRESSURE AND SHALL BE INSTALLED IN A MANNER THAT MAINTAINS ACCESSIBILITY FOR FINAL TESTING AND BALANCING.

2.15 WALL LOUVERS:

PROVIDE 6" THICK EXTRUDED ALUMINUM STATIONARY LOUVERS WITH DRAINABLE BLADES. UNITS SHALL BE WEATHER-TIGHT AND FIT ROUGH OPENINGS EXACTLY. MAX INTAKE FREE AREA VELOCITY: 500 FPM @ 0.10" W.G. MAX PRESSURE DROP. BLADES SHALL BE MIN. 0.125" THICK, BRACKETED FOR 20 PSF WIND LOAD. INCLUDE BIRD SCREEN IN REMOVABLE FRAME, EXTENDED SILL, CLIP ANGLES, AND MOUNTING HARDWARE. FINISH TO MATCH ARCHITECTURAL SPECIFICATIONS. ACCEPTABLE MANUFACTURERS: RUSKIN, GREENHECK, EMPCO.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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M3.02

Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:
MECHANICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS CONTINUED:

PART 3 - EXECUTION

3.1 INSTALLATION:

INSTALL ALL HVAC EQUIPMENT AND COMPONENTS PER MANUFACTURER'S INSTRUCTIONS, BUILDING CODE REQUIREMENTS, AND BEST INDUSTRY PRACTICES.

SEAL ALL DUCT JOINTS, CONNECTIONS, AND PENETRATIONS WITH UL-181 LISTED MASTIC OR TAPE, ENSURING NO LEAKAGE IN EXCESS OF IECC REQUIREMENTS.

INSTALL FIRE DAMPERS IN ACCORDANCE WITH MANUFACTURER’S RECOMMENDATIONS AND LOCAL FIRE CODE ENFORCEMENT.

3.2 TEST AND BALANCING:

HVAC SYSTEMS SHALL BE BALANCED BY A CERTIFIED TESTING AND BALANCING CONTRACTOR PER AABC OR NEBB STANDARDS.

PROVIDE BALANCE REPORT SHOWING FINAL SUPPLY, RETURN, AND OUTDOOR AIR QUANTITIES.

DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS AND COMPONENTS TO ENGINEER AND OWNER’S REPRESENTATIVE PRIOR TO FINAL ACCEPTANCE.

3.3 CLEANING AND ADJUSTMENT:

CLEAN ALL HVAC EQUIPMENT, DUCTS, AND ACCESSORIES OF DIRT, DEBRIS, AND FOREIGN MATERIAL BEFORE SYSTEM START-UP.

REPLACE ALL FILTERS PRIOR TO BUILDING OCCUPANCY.

3.4 TESTS AND INSPECTIONS:

PERFORM ALL REQUIRED CODE-COMPLIANCE TESTS, INCLUDING FIRE DAMPER ACTUATION TESTS, EQUIPMENT OPERATION CHECKS, CONTROL SYSTEM OPERATION, AND SAFETY DEVICE FUNCTIONALITY TESTS.

NOTIFY ENGINEER AND AHJ PRIOR TO TESTING TO SCHEDULE INSPECTIONS.

3.5 WARRANTY:

PROVIDE MINIMUM ONE-YEAR WARRANTY ON ALL HVAC EQUIPMENT AND INSTALLATION, COVERING PARTS, LABOR, AND REFRIGERANT. GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE. ANY DEFECTS ARISING DURING THIS PERIOD SHALL BE PROMPTLY REPAIRED AT NO COST TO OWNER.

3.6 AS-BUILT DRAWINGS AND O&M MANUALS

A. PROVIDE OPERATION & MAINTENANCE MANUALS TO OWNER AT PROJECT COMPLETION. INCLUDE ALL SYSTEM COMPONENTS AND MANUFACTURER’S DOCUMENTATION. MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION, AND PROVIDE THE OWNER WITH ONE SET UPON COMPLETION OF WORK. PROVIDE THE OWNER'S PERSONNEL WITH ON-SITE INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE COMPLETED MECHANICAL SYSTEM.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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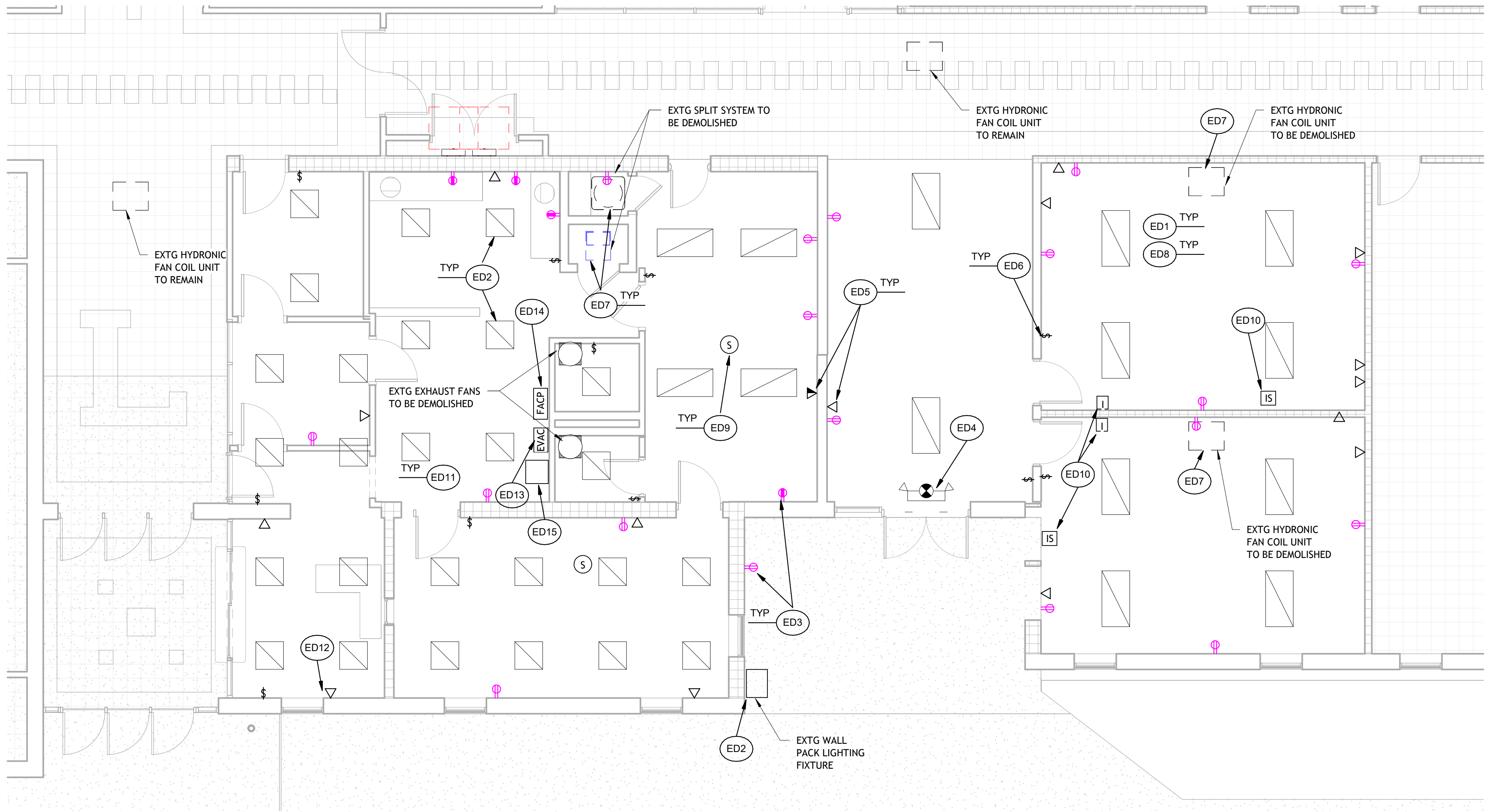
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Date: 2025
Project No.: 25-WM0039
File Name:
DESCRIPTION:
MECHANICAL SPECIFICATIONS



1 FIRST FLOOR PLAN - ELECTRICAL
DEMOLITION
3/16" = 1'-0"

ELECTRICAL DEMOLITION NOTES

- ED1 REFERENCE GENERAL ELECTRICAL NOTES ON SHEET E2.01.
- ED2 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE AND ASSOCIATED CONDUCTORS TO SOURCE.
- ED3 DISCONNECT AND REMOVE EXISTING RECEPTACLE AND ASSOCIATED CONDUCTORS TO SOURCE.
- ED4 DISCONNECT AND REMOVE EXISTING EMERGENCY LIGHTING FIXTURE OR EXIT SIGN AND ASSOCIATED CONDUCTORS TO SOURCE.
- ED5 DISCONNECT AND REMOVE EXISTING DATA OUTLET AND ASSOCIATED CONDUCTORS TO SOURCE.
- ED6 DISCONNECT AND REMOVE EXISTING LIGHT SWITCH AND ASSOCIATED CONDUCTORS TO SOURCE.
- ED7 PROVIDE ELECTRICAL DEMOLITION ASSOCIATED WITH MECHANICAL DEMOLITION. COORDINATE WITH MECHANICAL CONTRACTOR.
- ED8 CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EXISTING FEED-THRU ELECTRICAL CIRCUITS OR CONDUCTORS THAT ARE DAMAGED OR INTERRUPTED DURING DEMOLITION OR INSTALLATION WORK. ANY CIRCUITS AFFECTED BY DEMOLITION SHALL BE RESTORED TO PROPER OPERATION PRIOR TO FINAL ACCEPTANCE.
- ED9 DISCONNECT AND REMOVE EXISTING CEILING MOUNTED SPEAKER AND CONDUCTORS TO SOURCE. RETURN SPEAKER TO OWNER.
- ED10 DISCONNECT AND REMOVE EXISTING INTERCOM CALL BUTTON AND ASSOCIATED WALL MOUNTED SPEAKER. REMOVE CONDUCTORS TO SOURCE. PATCH WALL TO MATCH EXISTING WHERE WALL REMAINS.
- ED11 DISCONNECT AND REMOVE EXISTING CAMERAS IN AREA OF RENOVATION AND ASSOCIATED CONDUCTORS TO SOURCE. RETURN CAMERAS TO OWNER. PROTECT DURING DEMOLITION AND NEW CONSTRUCTION.
- ED12 DISCONNECT AND REMOVE EXISTING TELECOR MCC-300 INTERCOM CONSOLE. RETAIN FOR INSTALLATION IN NEW LOCATION--REFERENCE NEW WORK ON SHEET E1.01. PROTECT EQUIPMENT DURING DEMOLITION AND NEW CONSTRUCTION.
- ED13 DISCONNECT AND REMOVE EXISTING VOICE EVACUATION PANEL AND ASSOCIATED HARDWARE AND RETAIN FOR RELOCATION TO THE RECEPTION AREA. REFERENCE NEW WORK ON SHEET E1.01. PROTECT EQUIPMENT DURING DEMOLITION AND NEW CONSTRUCTION.
- ED14 DISCONNECT AND REMOVE EXISTING FIRE ALARM PANEL AND ASSOCIATED HARDWARE AND RETAIN FOR RELOCATION TO THE RECEPTION AREA. REFERENCE NEW WORK ON SHEET E1.01. PROTECT EQUIPMENT DURING DEMOLITION AND NEW CONSTRUCTION.
- ED15 DISCONNECT AND REMOVE EXISTING INTERCOM SYSTEM EQUIPMENT AND RETAIN FOR RELOCATION IN NEW DATA CLOSET. REFERENCE NEW WORK ON SHEET E1.01. PROTECT EQUIPMENT DURING DEMOLITION AND NEW CONSTRUCTION.

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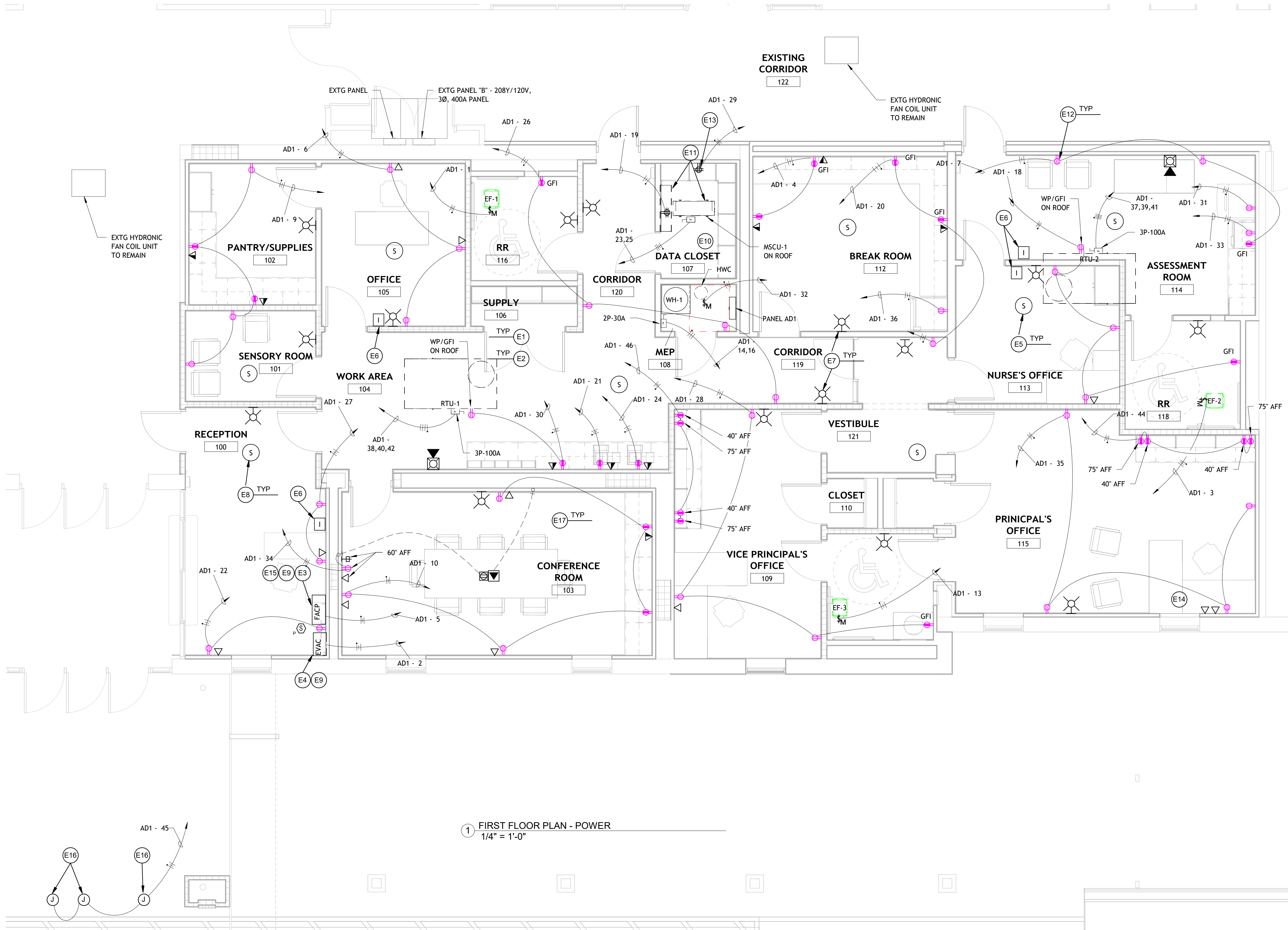
ED1.01

Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:
1ST FLOOR PLAN -
ELECTRICAL
DEMOLITION



ELECTRICAL NOTES

- E1 REFERENCE GENERAL ELECTRICAL NOTES ON SHEET E2.01.
- E2 INSTALL ABOVE-COUNTER RECEPTACLES AND DATA DEVICES WITH BOTTOM OF BOX 6 INCHES ABOVE COUNTERTOP, OR 2 INCHES ABOVE BACKSPASH WHEN REQUIRED TO CLEAR BACKSPASH OR WALL TILE, WHICHEVER RESULTS IN LOWER MOUNTING HEIGHT. COORDINATE LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATIONS. UNDER NO CIRCUMSTANCES SHALL BACKSPASHES OR WALL FINISHES BE CUT TO ACCOMMODATE DEVICE BOXES OR PLATES. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF BOXES AND ALL ASSOCIATED REPAIRS IF DEVICES ARE INSTALLED AT INCORRECT HEIGHTS OR IF DAMAGE OCCURS DUE TO IMPROPER COORDINATION.
- E3 RELOCATE EXISTING FIRE ALARM CONTROL PANEL (FACP) TO NEW LOCATION INDICATED ON DRAWINGS AND EXTEND OR REPLACE EXISTING NOTIFICATION, INITIATION, AND CONTROL CIRCUIT CABLES AS REQUIRED TO REACH THE NEW LOCATION. PROVIDE ALL NEW FIRE ALARM DEVICES, APPLIANCES, ADDRESSING, AND INTEGRATION NECESSARY FOR A FULLY FUNCTIONAL SYSTEM. MAINTAIN WIRING TYPE, SIZE, AND RATING CONSISTENT WITH EXISTING SYSTEM AND MANUFACTURER REQUIREMENTS. ALL NEW WIRING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, NFPA 70, AND THE SYSTEM MANUFACTURER'S PUBLISHED INSTALLATION REQUIREMENTS. SPLICING SHALL OCCUR ONLY IN LISTED, ACCESSIBLE JUNCTION BOXES. RELOCATE OR EXTEND SECONDARY POWER CONDUCTORS TO THE NEW FACP LOCATION AS REQUIRED. AFTER RELOCATION AND DEVICE ADDITIONS ARE COMPLETE, RECONNECT, PROGRAM, AND PERFORM FULL FUNCTIONAL TESTING OF ALL INITIATION, NOTIFICATION, CONTROL CIRCUITS, AND SUPERVISORY FUNCTIONS IMPACTED BY THIS WORK. COORDINATE WITH OWNER AND AHJ FOR ANY REQUIRED NOTIFICATIONS OR INSPECTIONS. CONTRACTOR SHALL PROVIDE A COMPLETE, CODE-COMPLIANT, AND FULLY OPERATIONAL FIRE ALARM SYSTEM UPON COMPLETION OF ALL WORK.
- E4 RELOCATE EXISTING VOICE EVACUATION PANEL TO THE NEW LOCATION INDICATED ON DRAWINGS AND EXTEND OR REPLACE ALL EXISTING SPEAKER CIRCUITS, CONTROL CIRCUITS, INITIATION CIRCUITS, AND OTHER SYSTEM WIRING AS REQUIRED TO REACH THE NEW LOCATION. FURNISH AND INSTALL ALL NEW NOTIFICATION APPLIANCES, SPEAKERS, CONTROL MODULES, AND ASSOCIATED WIRING SHOWN ON THE DRAWINGS AND PROVIDE ALL PROGRAMMING, ADDRESSING, AND AMPLIFIER CONFIGURATION NECESSARY FOR A FULLY FUNCTIONAL VOICE EVACUATION SYSTEM. MAINTAIN WIRING TYPE, SIZE, LISTING, AND RATING CONSISTENT WITH EXISTING SYSTEM AND MANUFACTURER REQUIREMENTS. ALL NEW WIRING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, NFPA 70, AND THE SYSTEM MANUFACTURER'S PUBLISHED INSTALLATION REQUIREMENTS. SPLICING SHALL OCCUR ONLY IN LISTED, ACCESSIBLE JUNCTION BOXES. RELOCATE OR EXTEND SECONDARY POWER CONDUCTORS AND BACKUP POWER CONNECTIONS TO THE NEW LOCATION AS REQUIRED. AFTER RELOCATION AND DEVICE ADDITIONS ARE COMPLETE, RECONNECT, PROGRAM, AND PERFORM FULL FUNCTIONAL TESTING OF ALL SPEAKER CIRCUITS, AUDIO PATHS, MESSAGE GENERATORS, CONTROL FUNCTIONS, AND SUPERVISORY FEATURES IMPACTED BY THIS WORK. COORDINATE WITH OWNER AND AHJ FOR ANY REQUIRED NOTIFICATIONS OR INSPECTIONS. CONTRACTOR SHALL PROVIDE A COMPLETE, CODE-COMPLIANT, AND FULLY OPERATIONAL VOICE EVACUATION SYSTEM UPON COMPLETION OF ALL WORK.
- E5 PROVIDE COMPLETE INTERCOM SYSTEM COVERAGE THROUGHOUT THE AREA OF RENOVATION. PROVIDE ALL REQUIRED HARDWARE AND COMPONENTS FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE ALL DEVICE LOCATIONS AND INTERFACE REQUIREMENTS WITH THE ARCHITECT, OWNER, AND EXISTING INTERCOM SYSTEM PRIOR TO BID.
- E6 PROVIDE INTERCOM CALL BUTTON EQUAL TO TELECOR CS-1 2/4 MOMENTARY-ACTION PUSH-BUTTON SWITCH INSCRIBED WITH THE LETTERS "PUSH TO CALL", DESIGNED TO ALLOW CALL-IN AND DE-COUPLE THE SPEAKER AUDIO FROM THE CALL-IN SIGNAL.
- E7 PROVIDE A COMPLETE, FULLY OPERATIONAL FIRE ALARM SYSTEM EXTENSION IN STRICT COMPLIANCE WITH IBC, NFPA 72, AND NFPA 101. FURNISH AND INSTALL ALL DEVICES REQUIRED BY NFPA CODES BASED ON BUILDING OCCUPANCY, WHETHER OR NOT SHOWN ON THE DRAWINGS.
- E8 PROVIDE RECESSED CEILING MOUNTED SPEAKER EQUAL TO TELECOR STB-12 WITH 8", 12 WATT SPEAKER.
- E9 PROVIDE ALL DOCUMENTATION, DRAWINGS, CALCULATIONS, AND REVISIONS REQUIRED BY THE LOUISIANA STATE FIRE MARSHAL FOR MODIFICATION OF AN EXISTING FIRE ALARM / VOICE EVACUATION SYSTEM, INCLUDING ANY REQUIRED UPDATES TO RISER DIAGRAMS, BATTERY AND VOLTAGE DROP CALCULATIONS, SEQUENCE OF OPERATIONS, AND DEVICE LAYOUTS. COORDINATE SUBMITTALS AND FIELD PROCEDURES AS REQUIRED BY THE LOUISIANA STATE FIRE MARSHAL AND OBTAIN APPROVAL PRIOR TO FINAL TESTING.
- E10 RELOCATE EXISTING TELECOR AMPLIFIER, POWER SUPPLY, AND ASSOCIATED EQUIPMENT SHOWN TO THE NEW DATA CLOSET LOCATION INDICATED ON DRAWINGS. EXTEND OR REPLACE ALL EXISTING AUDIO, CONTROL, COMMUNICATION, AND LOW-VOLTAGE CABLES AS REQUIRED TO REACH THE NEW LOCATION. MAINTAIN WIRING TYPE, SIZE, AND RATING CONSISTENT WITH EXISTING SYSTEM AND MANUFACTURER REQUIREMENTS, AND PROVIDE ALL NEW CONDUIT, RACEWAY, MOUNTING HARDWARE, AND BACKING REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE ALL RECONNECTION, PROGRAMMING, AND TESTING NECESSARY TO RESTORE FULL SYSTEM FUNCTIONALITY, INCLUDING AUDIO PATHS, PAGING CHANNELS, AND SUPERVISORY FEATURES. COORDINATE RELOCATION WITH OWNER'S IT DEPARTMENT AND SYSTEM PROVIDER AS REQUIRED. CONTRACTOR SHALL PROVIDE A COMPLETE, CODE-COMPLIANT, AND FULLY OPERATIONAL SYSTEM UPON COMPLETION OF ALL WORK.
- E11 MS-1 (INDOOR UNIT) SHALL BE POWERED FROM MSCU-1 ON ROOF. PROVIDE CONDUIT AND CONDUCTORS BETWEEN INDOOR AND OUTDOOR UNITS AS DIRECTED BY THE MANUFACTURER.
- E12 FOR ALL 15- AND 20-AMPERE, 125-VOLT NONLOCKING-TYPE RECEPTACLES, PROVIDE TAMPER-RESISTANT RECEPTACLES IN ALL LOCATIONS ACCESSIBLE TO STUDENTS IN ACCORDANCE WITH NEC 406.12. EXCEPTIONS SHALL ONLY PERMITTED WHERE SPECIFICALLY ALLOWED BY THE NEC.
- E13 PROVIDE ONE (1) QUADRUPEX RECEPTACLE FOR TELECOR INTERCOM EQUIPMENT. COORDINATE THE EXACT LOCATION OF RECEPTACLE WITH OWNER AND INTERCOM SYSTEM EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- E14 PROVIDE, PROGRAM, AND TEST NEW MCC-300 MASTER CONTROL CONSOLE IN PRINCIPAL'S OFFICE. COORDINATE WITH EXISTING INTERCOM AND COMMUNICATION SYSTEMS TO ENSURE FULL FUNCTIONALITY AND COMPATIBILITY. FINAL LOCATION SHALL BE COORDINATED WITH OWNER AND ARCHITECT. PROVIDE ALL REQUIRED WIRING, INTERFACES, SOFTWARE, LICENSES, AND CONFIGURATION REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- E15 PROVIDE REQUIRED TESTING AND VERIFICATION OF THE EXISTING FIRE ALARM AND VOICE EVACUATION SYSTEM FOLLOWING RELOCATION OF THE MASTER FIRE ALARM PANEL. TESTING SHALL INCLUDE VERIFICATION OF COMMUNICATION, SUPERVISION, AND PROPER OPERATION BETWEEN THE MASTER PANEL AND THE EXISTING FIRE ALARM PANEL SERVING THE MULTIPURPOSE BUILDING. COORDINATE TESTING WITH THE OWNER AND AUTHORITY HAVING JURISDICTION. PROVIDE ALL DOCUMENTATION REQUIRED FOR FINAL ACCEPTANCE.
- E16 PROVIDE POWER FOR LIGHTED SIGN. COORDINATE THE EXACT REQUIREMENTS WITH THE SIGN PROVIDER. ADJUST CIRCUIT AS REQUIRED. ALL ELECTRICAL WORK SHALL BE CONCEALED.
- E17 PROVIDE SHALLOW DEPTH ELECTRICAL BOXES IN ALL WALLS WITH 2-1/2" STUD DEPTH OR LESS. VERIFY WALL CONSTRUCTION CONDITIONS PRIOR TO ROUGH-IN. STANDARD DEPTH BOXES SHALL NOT BE INSTALLED WHERE THEY WOULD CONFLICT WITH FINISHED SURFACES OR OTHER TRADES. ANY CONFLICTS OR REQUIRED REWORK RESULTING FROM FAILURE TO COORDINATE SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR AT NO COST TO THE OWNER.

TBA STUDIO

ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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Lakeshore Office Renovation and Canopy
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550 Balboa Dr, Monroe, LA

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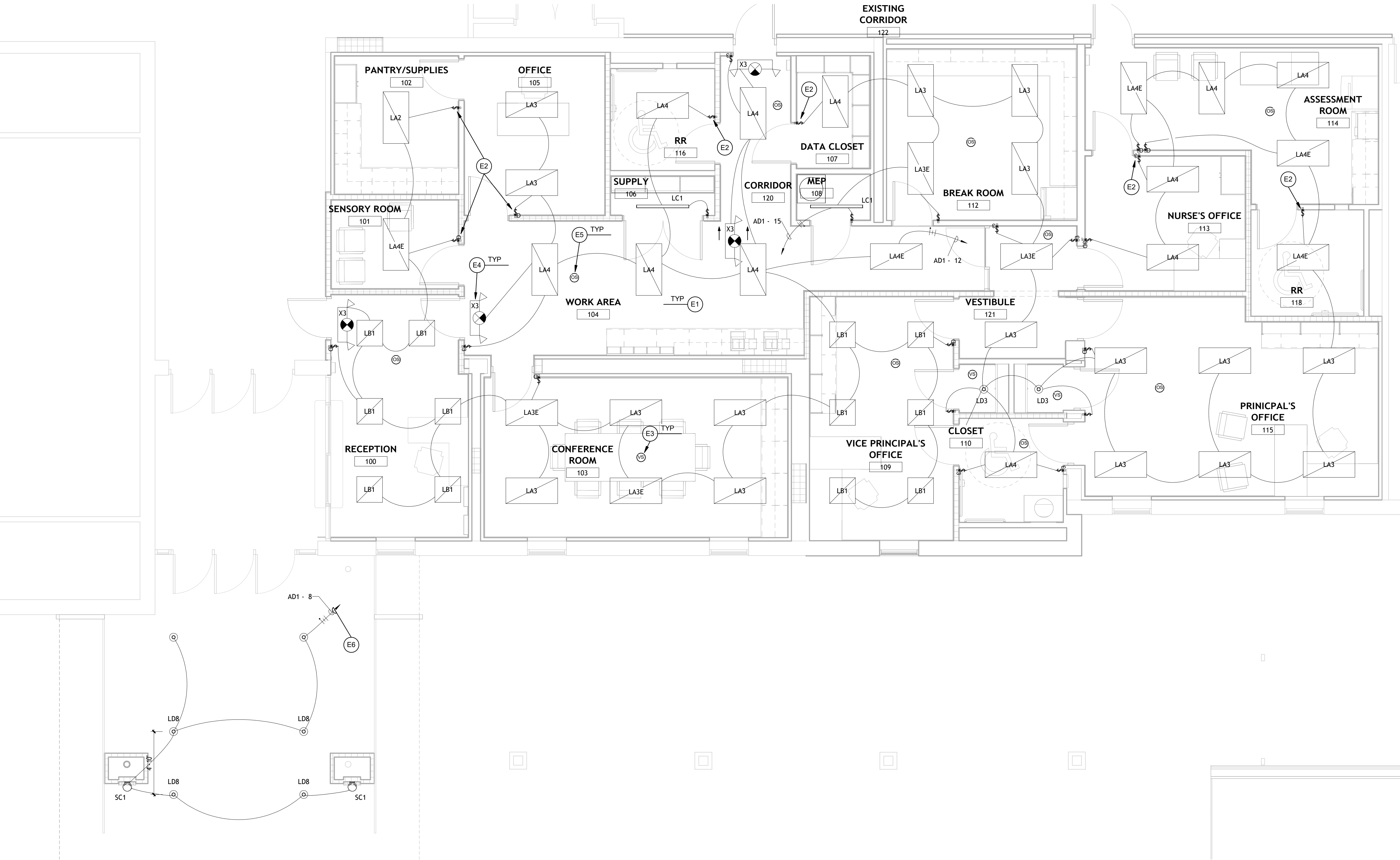
Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

1ST FLOOR PLAN -
POWER



1 FIRST FLOOR PLAN - LIGHTING
1/4" = 1'-0"

ELECTRICAL NOTES

- E1 REFERENCE GENERAL ELECTRICAL NOTES ON SHEET E3.01.
- E2 PROVIDE COMBINATION MANUAL SWITCH AND OCCUPANCY SENSOR, LUTRON MAESTRO OR EQUAL. DIMMER SWITCH WHERE INDICATED.
- E3 PROVIDE OCCUPANCY/VACANCY SENSOR CONTROLS IN ACCORDANCE WITH THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), INCLUDING QUANTITY, TYPE, LOCATION, COVERAGE, AND CONTROL SETTINGS REQUIRED FOR A FUNCTIONAL SYSTEM. SENSOR LOCATIONS SHOWN ON PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE FINAL SENSOR PLACEMENT AND SETTINGS TO MEET IECC REQUIREMENTS AND ENSURE FULL ROOM COVERAGE AND OPERATIONAL PERFORMANCE.
- E4 EXIT SIGNS AND EMERGENCY FIXTURES SHALL HAVE MINIMUM 90-MINUTE, 1400-LUMEN SELF-DIAGNOSTIC BATTERY PACK, CONNECTED TO UNSWITCHED CONDUCTORS.
- E5 ALL CONTROLS, OCCUPANCY SENSORS, POWER PACKS, ETC. SHALL BE LOW VOLTAGE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITH LIGHTING SUBMITTAL FOR ENTIRE SPACE, INDICATING ALL COMPONENTS, WIRING DIAGRAMS, ETC.
- E6 PROVIDE PHOTOCELL ON ROOF FACING NORTH TO CONTROL THIS LIGHTING CIRCUIT.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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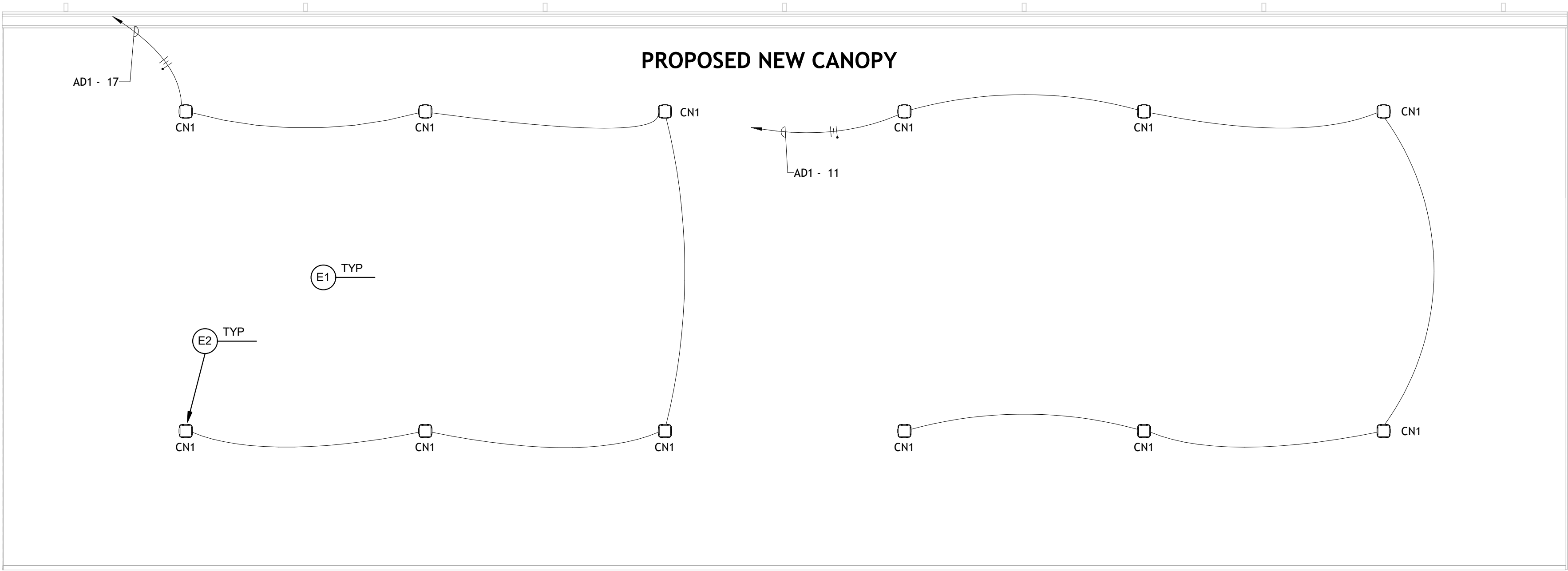
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Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:
1ST FLOOR PLAN -
LIGHTING



1 CANOPY FLOOR PLAN - LIGHTING
3/16" = 1'-0"

ELECTRICAL NOTES

- E1 REFERENCE GENERAL ELECTRICAL NOTES ON SHEET E2.01.
E2 COORDINATE THE EXACT LOCATION OF LIGHTING FIXTURES AND ALL ASSOCIATED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN. ROUTE CONDUIT CONCEALED WITHIN CANOPY CONSTRUCTION, WITHIN STRUCTURAL COLUMNS, OR BELOW GRADE AS REQUIRED TO MAINTAIN A CONCEALED INSTALLATION. BREAKOUT, SAWCUT, AND PATCH EXISTING PAVEMENT AS REQUIRED TO ROUTE CONDUIT TO STRUCTURAL COLUMNS. EXPOSED OR SURFACE-MOUNTED CONDUIT AND RACEWAYS SHALL NOT BE PERMITTED.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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550 Balboa Dr, Monroe, LA

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Date: 2025
Project No.: 25-WM0039
File Name:

DESCRIPTION:
CANOPY FLOOR
PLAN - LIGHTING

LIGHTING FIXTURE SCHEDULE									
MARK	MOUNTING	DIMMING	DESCRIPTION	LAMP	VOLTAGE	WATTS	COMMENTS	MANUFACTURER	MODEL NO.
CN1	SURFACE	0-10V TO 10%	LED LOW PROFILE CANOPY FIXTURE	LED, 5000K, 5000 LUMENS, ADJUSTABLE	120V	145 W	ADJUSTABLE LUMEN OUTPUT (SET AT 5000L); SWITCHABLE CCT (SET AT 5000K); INTEGRATED PHOTOCELL; INTEGRATED OCCUPANCY SENSOR; POLYCARBONATE FROSTED LENS; IP65 RATED, DIE CAST ALUMINUM HOUSING	LITHONIA	CNY LED ALO SSW2 UVOLT PE PIR DDB M2
LA1	CEILING RECESSED	0-10V TO 1%	2X4 LED TROFFER	LED, 3500K, 6000 LUMENS	UNIVERSAL	46.6	LOW PROFILE, HIGH EFFICACY TROFFER; DIE-FORMED HOUSING; ACRYLIC DIFFUSER	LITHONIA	2BLT4 60L ADSM GZ1 LP835
LA2	CEILING RECESSED	0-10V TO 1%	2X4 LED TROFFER	LED, 3500K, 5000 LUMENS	UNIVERSAL	39.3	LOW PROFILE, HIGH EFFICACY TROFFER; DIE-FORMED HOUSING; ACRYLIC DIFFUSER	LITHONIA	2BLT4 48L ADSM GZ1 LP835
LA3	CEILING RECESSED	0-10V TO 1%	2X4 LED TROFFER	LED, 3500K, 3200 LUMENS	UNIVERSAL	22.5	LOW PROFILE, HIGH EFFICACY TROFFER; DIE-FORMED HOUSING; ACRYLIC DIFFUSER	LITHONIA	2BLT4 30L ADSM GZ1 LP835
LA4	CEILING RECESSED	0-10V TO 1%	2X4 LED TROFFER	LED, 3500K, 4000 LUMENS	UNIVERSAL	32.1	LOW PROFILE, HIGH EFFICACY TROFFER; DIE-FORMED HOUSING; ACRYLIC DIFFUSER	LITHONIA	2BLT4 40L ADSM GZ1 LP835
LB1	CEILING RECESSED	0-10V TO 1%	2X2 LED TROFFER	LED, 3500K, 2000 LUMENS	UNIV	16.4W	LOW PROFILE, HIGH EFFICACY TROFFER; DIE-FORMED HOUSING; ACRYLIC DIFFUSER	LITHONIA	2BLT2 20L ADSM MVOLT GZ1 LP835
LD1	CEILING RECESSED	0-10V TO 1%	6" DOWNLIGHT, SELF FLANGED	LED, 5000K, 3000 LUMENS	120V	29.5W	COLOR & FINISH SHALL BE AS SELECTED BY THE ARCHITECT	GOTHAM	EV06 50/30 AR LSS ND MVOLT GZ1
LD3	CEILING RECESSED	0-10V TO 1%	6" DOWNLIGHT, SELF FLANGED	LED, 3500K, 500 LUMENS	120V	6.2W	COLOR & FINISH SHALL BE AS SELECTED BY THE ARCHITECT	GOTHAM	EV06 35/05 AR LSS MD MVOLT GZ1
SC1	WALL SURFACE	0-10V TO 1%	8" LED CYLINDER	LED, 4000K, 4000 LUMENS	120V	46W	8" CYLINDER, WALL MOUNTED, IP65 WET LOCATION RATED, DOWN LIGHT ONLY, POWDER COATED, COLOR AND FINISH AS SELECTED BY THE ARCHITECT	WAC LIGHTING	DS-WS08 F 40S
X3	SURFACE	N/A	LOW PROFILE EMERGENCY LIGHT/EXIT COMBO	LED	120V	1.1W	THERMOPLASTIC HOUSING; SINGLE/DOUBLE FACE EXIT; TWO (2) ADJUSTABLE LED HEADS; SELF-DIAGNOSTIC BATTERY NICKEL CADMIUM BATTERY; ARROWS AS REQUIRED; COMPLIANT WITH UL 924 & NFPA 101	LITHONIA	ECC R
NOTES:									

- CONTRACTOR SHALL SUBMIT THE FULL RANGE OF AVAILABLE FINISHES FOR ALL LIGHT FIXTURES TO THE ARCHITECT FOR REVIEW AND SELECTION. ALL COSTS ASSOCIATED WITH CUSTOM FINISHES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL LIGHT FIXTURES SHALL BE RATED FOR 120/277V UNLESS SPECIFIED OTHERWISE.
- INTERIOR LIGHTING FIXTURES SHALL BE 3500K CCT UNLESS NOTED OTHERWISE. EXTERIOR LIGHTING FIXTURES SHALL BE 4000K CCT UNLESS OTHERWISE INDICATED.
- ALL FIXTURES SHALL BE PROVIDED WITH A MINIMUM 5-YEAR WARRANTY.
- VERIFY EXACT MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND WALL FINISHES. CENTER EXTERIOR FIXTURES ON PANELS, JOINTS, AND ALIGN WITH ARCHITECTURAL FEATURES. DO NOT MOUNT ON PROTRUSIONS OR RIBS. ADJUST LOCATIONS AS REQUIRED.
- PROVIDE PROPER MOUNTING ACCESSORIES INCLUDING FLANGE KITS FOR GYPSUM CEILINGS AND ADAPTERS FOR SLOPED CEILINGS WHERE APPLICABLE.
- ALL CROSS-HATCHED LIGHTING FIXTURES AND FIXTURES DEVOTED WITH AN "E" SUFFIX ON THE PLANS SHALL INCLUDE A 1400 LUMEN MINIMUM, 90-MINUTE MINIMUM EMERGENCY BATTERY PACK CONNECTED TO UNSWITCHED CONDUCTORS, UNLESS NOTED OTHERWISE.
- EXIT SIGNS AND EMERGENCY FIXTURES SHALL BE CONNECTED TO UNSWITCHED CONDUCTORS.

EXTERIOR LIGHTING CONTROL:

- EXTERIOR LIGHTING SHALL BE AUTOMATICALLY CONTROLLED VIA PHOTOCELL TO TURN LIGHTS ON AND OFF BASED ON AVAILABLE DAYLIGHT.
- BUILDING FAÇADE AND LANDSCAPE LIGHTING SHALL BE CONTROLLED TO TURN OFF AT DAWN AND ON AT DUSK, WITH TIME-BASED OVERRIDE USING A 7-DAY TIME CLOCK. LIGHTS SHALL NOT TURN ON EARLIER THAN 1 HOUR BEFORE BUSINESS OPENING NOR STAY ON LATER THAN 1 HOUR AFTER CLOSING, AS DIRECTED BY OWNER.

GENERAL ELECTRICAL NOTES

1	ALL WORK BY THIS CONTRACTOR SHALL BE IN STRICT COMPLIANCE WITH THE LATEST APPLICABLE EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE INTERNATIONAL BUILDING CODE (IBC), NPFA 101 & 72, AND ALL LOCAL CODES AND ORDINANCES.
2	THE DRAWINGS PROVIDED ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS OR DIMENSIONS. DO NOT SCALE THESE DRAWINGS FOR CONSTRUCTION OR PRECISE DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, CONDITIONS, AND EXISTING ARRANGEMENTS AT THE JOB SITE PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES OR QUESTIONS ARISE.
3	PROVIDE SAFETY SWITCHES AND DISCONNECT SWITCHES, EITHER FUSED OR NON-FUSED AS INDICATED ON THE DRAWINGS AND REQUIRED BY APPLICABLE CODES. ALL SWITCHES SHALL BE HEAVY-DUTY TYPE, LOAD AND HORSEPOWER RATED, AND SUITABLE FOR THEIR INTENDED APPLICATION. ACCEPTABLE MANUFACTURERS INCLUDE SQUARE D, GUILD, EATON (CUTLER-HAMMER), GENERAL ELECTRIC, OR ENGINEER-APPROVED EQUAL. COORDINATE EXACT EXIT TYPE WITH SPECIFIC EQUIPMENT REQUIREMENTS PRIOR TO ORDERING. EXTERIOR DISCONNECTS AND DISCONNECTS LOCATED IN WET LOCATIONS SHALL BE NEMA 3R RATED.
4	PROVIDE CONDUCTORS FOR BRANCH CIRCUITS AND FEEDERS SIZED FOR A VOLTAGE DROP OF 3% OR LESS.
5	THIS CONTRATOR SHALL PROVIDE ALL GROUNDING SYSTEMS REQUIRED BY AND IN STRICT ACCORDANCE WITH THE NEC.
6	FOR DIMENSIONAL INFORMATION AND WIRING DETAILS RELATING TO C.T. COMPARTMENTS, METERING EQUIPMENT, AND CONNECTIONS OF THE SYSTEM GROUNDING CONDUCTOR, REFER TO STANDARD DRAWINGS AND SPECIFICATIONS PROVIDED BY THE LOCAL ELECTRIC UTILITY. THE GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LATEST APPLICABLE EDITION OF THE NEC.
7	COORDINATE THE EXACT LOCATION OF ALL WIRING AND SPECIAL SYSTEMS DEVICES WITH THE ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. THE ARCHITECT SHALL HAVE THE RIGHT TO RELOCATE DEVICES PRIOR TO ROUGH-IN, AND TO WITHIN 25 FEET OF INSTALLATION LOCATION AT NO ADDITIONAL COST.
8	COORDINATE THE EXACT REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. ADJUST CIRCUITS AS REQUIRED.
9	UNLESS NOTED OTHERWISE, ALL DEVICES SHALL BE INSTALLED AT A HEIGHT CONFORMING WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
10	ALL ELECTRICAL INSTALLATIONS IN AREAS OF NEW CONSTRUCTION SHALL BE RECESS/FLUSH MOUNTED EXCEPT IN CONCEALED AREAS AND MECHANICAL AND/OR ELECTRICAL SPACES, , UNLESS NOTED OTHERWISE. DEVIATIONS SHALL NOT BE ACCEPTABLE UNLESS APPROVED IN WRITING BY THE ARCHITECT.
11	CONTRACTOR SHALL CAREFULLY COORDINATE THE INSTALLATION OF ALL ELECTRICAL MATERIALS AND EQUIPMENT LOCATED ABOVE CEILINGS WITH CEILING SUSPENSION SYSTEMS, MECHANICAL EQUIPMENT, HVAC DUCTWORK AND PIPING, STRUCTURAL COMPONENTS, AND ALL OTHER BUILDING SYSTEMS. INSTALLATION SHALL BE FULLY COORDINATED TO PREVENT INTERFERENCE WITH OTHER TRADES AND TO FACILITATE ACCESSIBILITY FOR MAINTENANCE.
12	WHERE EXACT MOUNTING HEIGHTS ARE NOT SPECIFICALLY INDICATED ON THE DRAWINGS, INSTALL ALL ELECTRICAL SERVICES AND OVERHEAD EQUIPMENT TO MAXIMIZE AVAILABLE HEADROOM. INSTALL EQUIPMENT IN A MANNER THAT ENSURES ADEQUATE ACCESSIBILITY FOR ROUTINE MAINTENANCE, REPAIR, AND COMPONENT REPLACEMENT. TO THE GREATEST EXTENT PRACTICAL, EQUIPMENT SHALL BE CONNECTED TO FACILITATE EASY DISCONNECTION AND REPLACEMENT WITH MINIMAL INTERFERENCE TO OTHER BUILDING COMPONENTS AND SYSTEMS.
13	ALL WIRING SHALL BE RUN IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4", AND MINIMUM WIRE SIZE FOR POWER CONDUCTORS SHALL BE #12AWG, UNLESS NOTED OTHERWISE.
14	ALL ELECTRICAL MATERIAL AND EQUIPMENT SHALL BE NEW, SHALL BE UL LISTED, AND SHALL BEAR THE UL LABEL.
15	PROVIDE UL LISTED THROUGH PENETRATION FIRESTOP SYSTEM FOR FIRE RATED WALL PENETRATIONS.
16	THE GROUND PATH OF THE GROUNDING ELECTRODE SYSTEM SHALL BE PERMANENT AND CONTINUOUS, AND THE RESISTANCE OF THE GROUND PATHS MUST NOT EXCEED 25 OHMS.
17	ALL RECEPTACLES LOCATED IN BATHROOMS, KITCHENS, GARAGES, LAUNDRY AREAS, AND OUTDOORS SHALL BE GFCI RATED.
18	ALL EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE CONNECTED TO UNSWITCHED CONDUCTORS.
19	ALL LIGHTING FIXTURES INSTALLED IN CEILING GRID SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE.
20	THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL, INCLUDING ALL NECESSARY MATERIALS, LABOR, EQUIPMENT, AND SERVICES REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.
21	PROVIDE A NYLON PULL STRING IN ALL EMPTY CONDUITS.
22	COORDINATE THE EXACT LOCATIONS AND MOUNTING REQUIREMENTS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS, INCLUDING CEILING TYPE, PRIOR TO ORDERING LIGHTING FIXTURES. COORDINATE WITH LOCATIONS OF AIR DEVICES AND DUCTWORK.
23	DUCT DETECTORS ARE INDICATED ON THE MECHANICAL PLANS. CONNECT AS REQUIRED.
24	PROVIDE SURGE PROTECTIVE DEVICE(S) AS REQUIRED FOR ALL SPECIAL SYSTEMS, INCLUDING BUT NOT LIMITED TO: ACCESS CONTROL, SECURITY, FIRE ALARM, TELECOMMUNICATION, ETC. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT AND OWNER.
25	LIGHTING FIXTURE CONTROLS (SWITCHING, OCCUPANCY SENSORS, DAYLIGHT SENSORS, ETC) SHALL BE LOW VOLTAGE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITH LIGHTING SUBMITTAL FOR ENTIRE BUILDING, INDICATING ALL COMPONENTS, WIRING DIAGRAMS, ETC.
26	THE LIGHTING AND LIGHTING CONTROLS SYSTEM SHALL BE IN STRICT COMPLIANCE WITH THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC). PROVIDE ALL SWITCHING, OCCUPANCY SENSORS, DAYLIGHT SENSORS, POWER PACKS, ETC AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN FULL COMPLIANCE WITH THE IECC.

ELECTRICAL LEGEND

	DUPLEX RECEPTACLE ; ABOVE COUNTER; QUAD	\$; \$ ₃ ; \$ ₄ ; \$ ₀ ; \$ ₂₀	SINGLE POLE SWITCH ; 3-WAY ; 4-WAY ; DIMMER SWITCH ; 3-WAY DIMMER
GFI , WP/GFI	GROUND FAULT ; WEATHERPROOF GROUND FAULT	AFF	ABOVE FINISHED FLOOR
;	2-POLE, 3-WIRE ; SPECIAL PURPOSE	U/G ; U/S	UNDERGROUND ; UNDER SLAB
;	DUPLEX FLOOR/CEILING ; QUAD FLOOR/CEILING	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE
	TV/CATV OUTLET	CT	CURRENT TRANSFORMER
;	DATA OUTLET ; ABOVE COUNTER	XFMR	TRANSFORMER
	FLOOR DATA OUTLET	PWT	PADMOUNT TRANSFORMER
	CONDUIT ABOVE CEILING OR IN WALL	OHE	OVERHEAD ELECTRICAL
	CONDUIT UNDERGROUND		VANITY LIGHTING FIXTURE
	HOMERUN ; TICKMARKS INDICATE GROUND, PHASE, AND NEUTRAL CONDUCTORS		UNDER CABINET LIGHTING FIXTURE
	MOTOR TOGGLE SWITCH		UNDER CABINET LIGHTING FIXTURE
;	NON-FUSED DISCONNECT; FUSED		LED DOWNLIGHT
	PANELBOARD		SINGLE ZONE DMX WALL CONTROLLER
	MOTORIZED DAMPER		ILLUMINATED EXIT SIGN, SINGLE FACE ; DOUBLE FACE
	FIRE ALARM MANUAL PULL STATION		COMBINED BATTERY-POWERED EMERGENCY LIGHT AND ILLUMINATED EXIT SIGN
	FIRE ALARM COMBINATION HORN/VISIBLE NOTIFICATION DEVICE		
	FIRE ALARM VISIBLE ONLY (STROBE) NOTIFICATION DEVICE		BATTERY POWERED EMERGENCY LIGHT
	COMBINATION SPEAKER/VISIBLE NOTIFICATION DEVICE		
;	PHOTOELECTRIC SMOKE DETECTOR ; SMOKE DETECTOR W/ LOW FREQ SOUNDER BASE		PHOTOCELL
	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR	UNO	UNLESS NOTED OTHERWISE
	SINGLE STATION SMOKE ALARM	;	OCCUPANCY SENSOR ; VACANCY SENSOR
	HEAT DETECTOR/SENSOR		
	FIRE ALARM CONTROL PANEL		
	FIRE ALARM REMOTE ANNUNCIATOR PANEL		
	VOICE EVACUATION PANEL		
	REMOTE VOICE EVACUATION MICROPHONE		
	DOOR CLOSER		
	FLOW & TAMPER SWITCH		
	INTERCOM REMOTE CALL SWITCH		
	INTERCOM CEILING SPEAKER		
	INTERCOM WALL MOUNTED PAGE HORN		

NOTE: SOME SYMBOLS MAY NOT BE USED.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

TBA

Lakeshore Office Renovation and Canopy
Repair
550 Balboa Dr., Monroe, LA

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No.	Description	Date

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SHEET

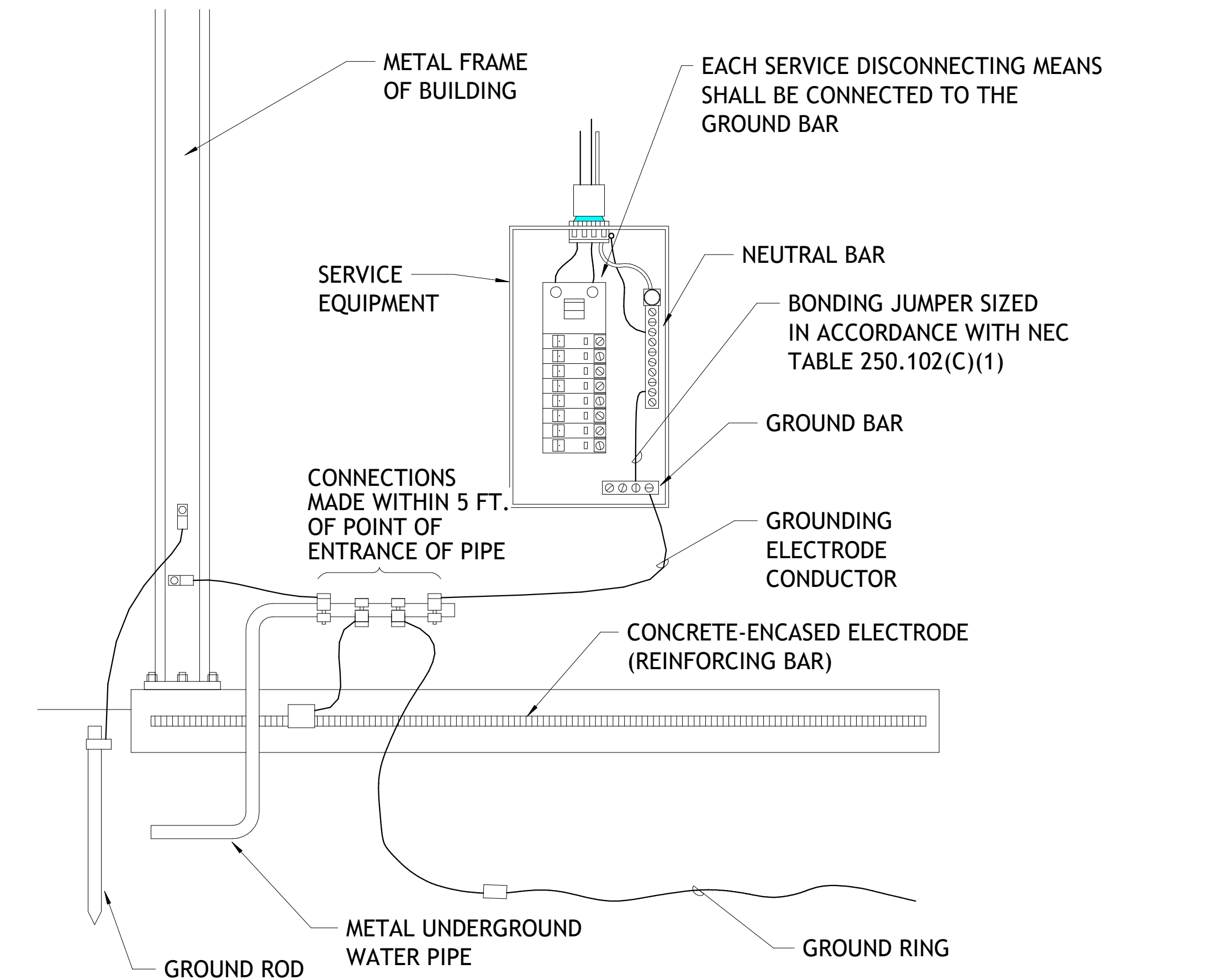
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Date: 2025

Project No.: 25-WM0039

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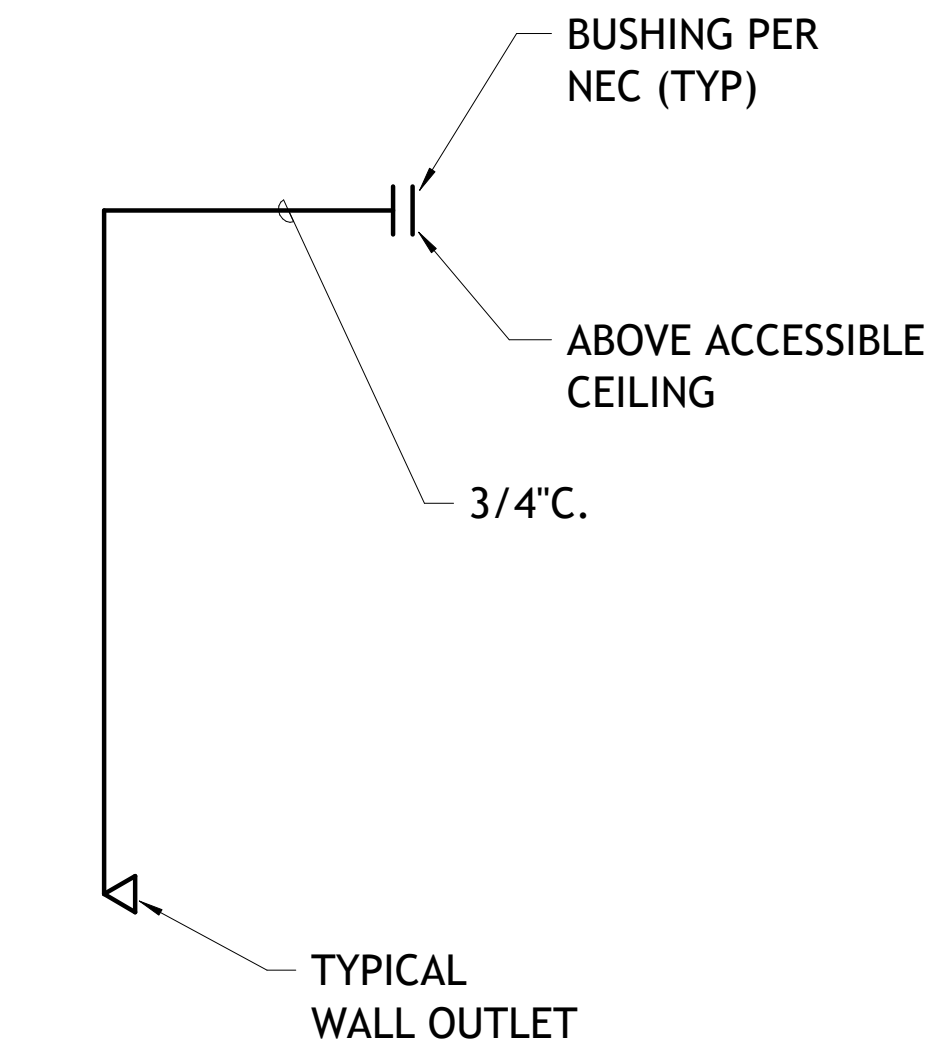
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ELECTRICAL
SCHEDULES AND
DETAILS



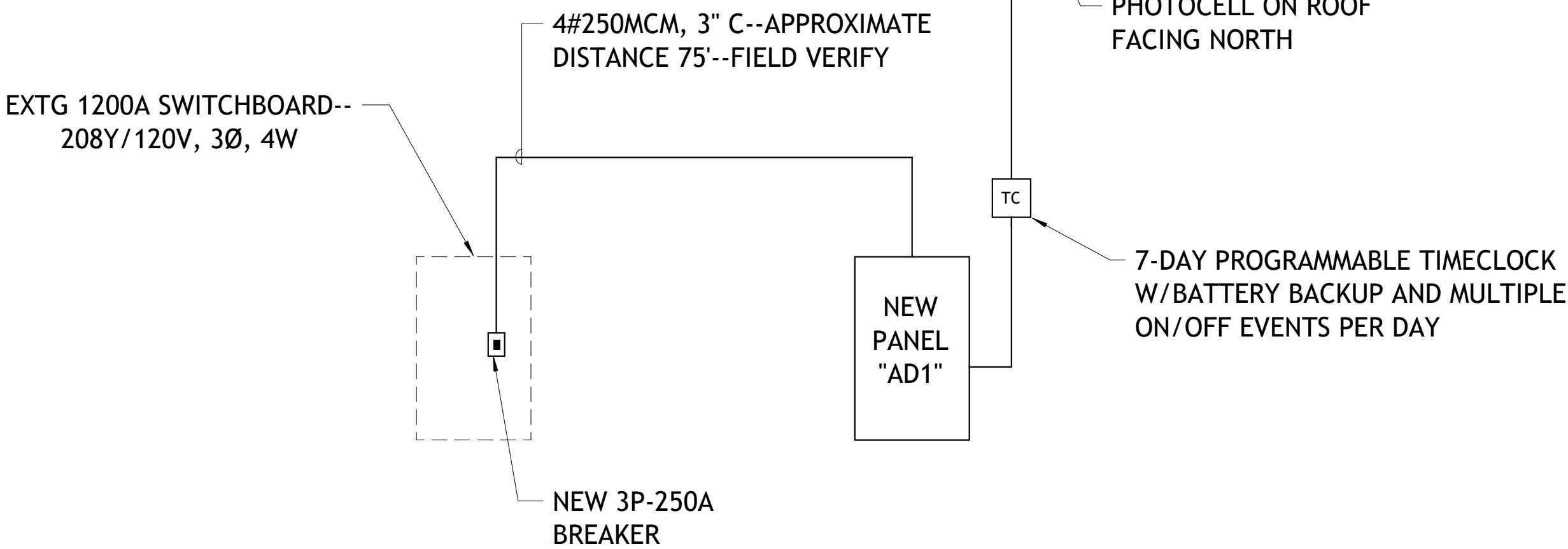
NOTES:

- GROUNDING CONDUCTORS ARE TO BE IN COMPLIANCE WITH THE LATEST APPLICABLE EDITION OF NEC ARTICLE 250. REFER TO ELECTRICAL RISER DIAGRAM.
- ISOLATED GROUNDING (WHERE SPECIFIED) AND EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TABLE 250.122 OF THE LATEST APPLICABLE EDITION OF THE NEC.
- GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH TABLE 250-66 OF THE LATEST APPLICABLE EDITION OF THE NEC BASED ON SERVICE ENTRANCE CONDUCTORS OR CONDUCTORS OF SEPARATELY DERIVED SYSTEM (SECONDARY CONDUCTORS).
- GROUNDING AND GROUNDED CONDUCTORS SHALL BE RUN IN CONDUIT WITH FEEDER AND BRANCH CIRCUIT CONDUCTORS.
- GROUND ROD SHALL BE 3/4" X 10' COPPER-CLAD STEEL.

2 ELECTRICAL GROUNDING ELECTRODE SYSTEM DETAIL
NO SCALE



1 DETAIL - DATA RISER
NO SCALE



3 DETAIL - ELECTRICAL RISER FOR LAKESHORE
NO SCALE

NOTES

- PROVIDE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS IN ACCORDANCE WITH THE NEC.

Branch Panel: AD1																	
Location: MEP 108						Volts: 120/208 Wye						A.I.C. Rating: 22KA					
Supply From:						Phases: 3						Mains Type: MLO					
Mounting: Surface						Wires: 4						Mains Rating: 250 A					
Enclosure: TYPE 1						MCB Rating: 0 A											
Notes: INTEGRAL SPD																	
CKT	Circuit Description	CIRCUIT NOTES	Wire Size	Trip	Poles	A		B		C		Poles	Trip	Wire Size	CIRCUIT NOTES	Circuit Description	CKT
1	EF-1		1-#12, 1-#12, 1-#12	20 A	1	180 VA	250 VA					1	20 A	1-#12, 1-#12, 1-#12		VOICE EVAC PANEL	2
3	EF-2		1-#12, 1-#12, 1-#12	20 A	1			180 VA	360 VA			1	20 A	1-#12, 1-#12, 1-#12		RECEPT	4
5	FACP		1-#12, 1-#12, 1-#12	20 A	1					250 VA	540 VA	1	20 A	1-#12, 1-#12, 1-#12		RECEPT	6
7	RECEPT		1-#12, 1-#12, 1-#12	20 A	1	540 VA	269 VA					1	20 A	1-#12, 1-#12, 1-#12		LIGHTING	8
9	RECEPT		1-#12, 1-#12, 1-#12	20 A	1			900 VA	900 VA			1	20 A	1-#12, 1-#12, 1-#12		RECEPT	10
11	LIGHTING		1-#6, 1-#6, 1-#6	20 A	1					870 VA	736 VA	1	20 A	1-#12, 1-#12, 1-#12		LIGHTING	12
13	EF-3		1-#12, 1-#12, 1-#12	20 A	1	180 VA	2250 VA					2	30 A	2-#10, 1-#10, 1-#10		WATER HEATER	14
15	LIGHTING		1-#12, 1-#12, 1-#12	20 A	1			966 VA	2250 VA			--	--	--	--	--	16
17	LIGHTING		1-#8, 1-#8, 1-#8	20 A	1					870 VA	900 VA	1	20 A	1-#12, 1-#12, 1-#12		RECEPT	18
19	RECEPT		1-#12, 1-#12, 1-#12	20 A	1	360 VA	540 VA					1	20 A	1-#12, 1-#12, 1-#12		RECEPT	20
21	RECEPT		1-#12, 1-#12, 1-#12	20 A	1			180 VA	360 VA			1	20 A	1-#12, 1-#12, 1-#12		RECEPT	22
23	MINI-SPLIT		2-#10, 1-#10, 1-#10	30 A	2					1500 VA	180 VA	1	20 A	1-#12, 1-#12, 1-#12		RECEPT	24
25	--	--	--	--	--	1500 VA	720 VA					1	20 A	1-#12, 1-#12, 1-#12		RECEPT	26
27	RECEPT		1-#12, 1-#12, 1-#12	20 A	1			360 VA	720 VA			1	20 A	1-#12, 1-#12, 1-#12		RECEPT	28
29	RECEPT		1-#12, 1-#12, 1-#12	20 A	1					360 VA	360 VA	1	20 A	1-#12, 1-#12, 1-#12		RECEPT	30
31	ICE MAKER	GF	1-#12, 1-#12, 1-#12	20 A	1	1000 VA	180 VA					1	20 A	1-#12, 1-#12, 1-#12		HWC	32
33	RECEPT	GF	1-#12, 1-#12, 1-#12	20 A	1			1000 VA	180 VA			1	20 A	1-#12, 1-#12, 1-#12		RECEPT	34
35	RECEPT		1-#12, 1-#12, 1-#12	20 A	1					720 VA	1000 VA	1	20 A	1-#12, 1-#12, 1-#12	GF	REFRIGERATOR	36
37	RTU-2		3-#4, 1-#4, 1-#8	70 A	3	6700 VA	7700 VA					3	80 A	3-#3, 1-#3, 1-#8		RTU-1	38
39	--	--	--	--	--			6700 VA	7700 VA			--	--	--	--	--	40
41	--	--	--	--	--					6700 VA	7700 VA	--	--	--	--	--	42
43	RECEPT		1-#12, 1-#12, 1-#12	20 A	1	180 VA	720 VA					1	20 A	1-#12, 1-#12, 1-#12		R	44
45	LIGHTED SIGN		1-#12, 1-#12, 1-#12	20 A	1			300 VA	720 VA			1	20 A	1-#12, 1-#12, 1-#12		R	46
47	Spare	--	--	20 A	1					0 VA	0 VA	1	20 A	--	--	Spare	48
49	Spare	--	--	20 A	1	0 VA	0 VA					1	20 A	--	--	Spare	50
51	Spare	--	--	20 A	1			0 VA	0 VA			1	20 A	--	--	Spare	52
53	Spare	--	--	20 A	1					0 VA	0 VA	1	20 A	--	--	Spare	54
55	Space	--	--	--	1	--	--					1	--	--	--	Space	56
57	Space	--	--	--	1			--	--			1	--	--	--	Space	58
59	Space	--	--	--	1					--	--	1	--	--	--	Space	60
Total Load:						23269 VA		23776 VA		22686 VA							
Total...						195 A		199 A		189 A							
Legend:																	
Load Classification						Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Other						1020 VA		100.00%		1020 VA							
Receptacle						720 VA		100.00%		720 VA		Total Conn. Load: 69731 VA					
Power						50700 VA		100.00%		50700 VA		Total Est. Demand: 68191 VA					
Lighting						3711 VA		100.00%		3711 VA		Total Conn.: 194 A					
Appliance						500 VA		100.00%		500 VA		Total Est. Demand: 189 A					
R						13080 VA		88.23%		11540 VA							
Notes:																	
GF = GFCI BREAKER																	

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

TBA

Lakeshore Office Renovation and Canopy
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550 Balboa Dr, Monroe, LA

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E2.02

Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

ELECTRICAL
SCHEDULES AND
DETAILS

ELECTRICAL SPECIFICATIONS (SPEC-ON-PLAN)

PART 1 - GENERAL

1.1 SCOPE OF WORK

A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM. ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED ELCTRICAL CONTRACTORS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE IN COMPLIANCE WITH:

NATIONAL ELECTRICAL CODE (NEC), 2023 EDITION

INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2021 EDITION

NFPA 101 (LIFE SAFETY CODE), 2021 EDITION

APPLICABLE LOCAL AND STATE OF LOUISIANA CODES AND STANDARDS

B. DRAWINGS INDICATE GENERAL ARRANGEMENT. EXACT ROUTING AND COORDINATION WITH OTHER TRADES IS CONTRACTOR’S RESPONSIBILITY. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO COMMENCEMENT OF WORK.

C. OBTAIN AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS, AND CERTIFICATES REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

D. PROVIDE COMPLETE SHOP DRAWINGS AND PRODUCT DATA SUBMITTALS FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, LIGHTING CONTROLS, AND FIRE ALARM SYSTEM.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS

A. ALL MATERIALS SHALL BE NEW, UL-LISTED, LABELED, AND APPROVED FOR THE INTENDED APPLICATION.

B. ACCEPTABLE MANUFACTURERS LISTED ARE BASIS OF DESIGN; APPROVED EQUALS MAY BE SUBMITTED TO ARCHITECT/ENGINEER FOR REVIEW.

2.2 RACEWAYS AND WIRING

A. CONDUIT AND FITTINGS:

PROVIDE COMPLETE RACEWAY SYSTEM USING THE FOLLOWING ACCEPTABLE CONDUIT TYPES, AS INDICATED ON DRAWINGS AND SUBJECT TO NEC CODE AND LOCAL AUTHORITY REQUIREMENTS:

RIGID GALVANIZED STEEL (RGS) - REQUIRED FOR ALL UNDERGROUND INSTALLATIONS, CONDUITS IN CONCRETE SLABS, AND EXTERIOR APPLICATIONS ABOVE GRADE.

ELECTRICAL METALLIC TUBING (EMT) - ALLOWED FOR INTERIOR INSTALLATIONS ABOVE FINISHED CEILINGS AND WITHIN WALLS, WHERE NOT SUBJECT TO PHYSICAL DAMAGE.

PVC SCHEDULE 40/80 - PERMITTED ONLY WHERE SPECIFICALLY INDICATED ON DRAWINGS AND APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

RIGID STEEL CONDUIT (RSC) OR RIGID ALUMINUM - PERMITTED FOR SPECIAL APPLICATIONS WHERE INDICATED OR REQUIRED.

FLEXIBLE METAL CONDUIT (FMC) OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) - SHALL BE USED FOR FINAL CONNECTIONS TO MOTORS, HVAC EQUIPMENT, AND VIBRATION-ISOLATED EQUIPMENT. DO NOT EXCEED 6 FEET IN LENGTH. SUPPORT PER NEC REQUIREMENTS.

ENT (ELECTRICAL NONMETALLIC TUBING) - NOT PERMITTED UNLESS APPROVED IN WRITING BY THE ENGINEER.

ALL CONDUITS SHALL BE INSTALLED WITH PROPER SUPPORTS AND STRAPS, FREE FROM DENTS, KINKS, OR DAMAGE. USE MINIMUM 1/2".

MAINTAIN ELECTRICAL CONTINUITY THROUGHOUT THE RACEWAY SYSTEM. CONDUITS SHALL BE BONDED TO BOXES USING A LOCKNUT ON THE EXTERIOR AND AN INSULATED BUSHING OR REINFORCED BAKELITE BUSHING ON THE INTERIOR.

ALL CONDUIT TERMINATIONS AT METAL BOXES SHALL INCLUDE GROUNDING BUSHINGS WITH GROUND LUGS WHERE REQUIRED.

NO CONDUIT SHALL BE USED FOR STORAGE OF WIRE PULLS OR LEFT OPEN DURING CONSTRUCTION WITHOUT TEMPORARY CAPS OR PLUGS.

RIGID METAL CONDUIT SHALL BE USED IN ALL LOCATIONS SUBJECT TO PHYSICAL DAMAGE. ALL CONDUITS SHALL BE SUPPORTED USING TWO-HOLE METAL STRAPS OR MANUFACTURER-SPECIFIED CLAMPS.

EMBEDDED CONDUITS SHALL NOT PENETRATE SLABS LESS THAN 4” THICK WITHOUT ENGINEER’S APPROVAL. FIELD-ROUTED CONDUITS IN SLABS OR WALLS MUST BE SHOWN ON COORDINATION DRAWINGS PRIOR TO INSTALLATION.

2.3 WIRE AND CABLES:

ALL WIRE AND CABLES SHALL BE UL LISTED, LABELED, AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, NEMA (WC-5 AND WC-7), ICEA (S-61-402 AND S-66-524), AND ALL OTHER APPLICABLE INDUSTRY STANDARDS. ALL CONNECTORS AND TERMINAL LUGS SHALL BE UL LISTED AND MEET THE REQUIREMENTS OF UL 486.

ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 600V, STRANDED COPPER, TYPE THHN/THWN, RATED FOR A MINIMUM OF 70°C AND SUITABLE FOR THE INSTALLATION CONDITIONS. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. CONDUCTORS SIZE #8 AWG AND LARGER SHALL BE STRANDED.

SERVICE AND FEEDER CONDUCTORS SHALL BE 600V, TYPE XHHW OR EQUIVALENT, RATED FOR 75°C MINIMUM, UNLESS OTHERWISE SPECIFIED. EACH CIRCUIT SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH NEC TABLE 250.122.

ALL CONDUCTORS SHALL BE INSTALLED IN RACEWAYS (CONDUIT), UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. NON-METALLIC SHEATHED CABLE (NM OR "ROMEX") IS NOT PERMITTED FOR THIS PROJECT.

COLOR CODE CONVENTIONS SHALL BE AS FOLLOWS:

PHASE A = BLACK

PHASE B = RED

PHASE C = BLUE

NEUTRAL = WHITE OR GRAY

GROUND = GREEN OR BARE

LOW VOLTAGE AND CONTROL WIRING:
ALL COMMUNICATION, CONTROL, AND SIGNAL WIRING SHALL BE ROUTED ABOVE ACCESSIBLE CEILINGS OR IN DEDICATED RACEWAYS WHERE CEILINGS ARE NOT ACCESSIBLE. IN AREAS WHERE CEILING SPACE IS DESIGNATED FOR RETURN AIR (PLENUM), LOW VOLTAGE AND CLASS 2 WIRING SHALL BE INSTALLED IN PLENUM-RATED CABLE OR ENCLOSED IN RACEWAYS COMPLIANT WITH NEC ARTICLE 300.22(C).

ALL FIRE ALARM, LIFE SAFETY, AND MONITORED SYSTEM WIRING SHALL BE INSTALLED IN METALLIC RACEWAY OR CONFORM TO NEC ARTICLES 760 AND 725. WHERE WIRING IS EXPOSED TO PHYSICAL DAMAGE OR PENETRATES RATED ASSEMBLIES, INSTALL IN RIGID CONDUIT.

WIRING SERVING FIRE ALARM INITIATION, NOTIFICATION, SHUNT TRIPS, OR OTHER LIFE SAFETY FUNCTIONS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND THE NEC, AND SHALL BE RACEWAY-PROTECTED UNLESS EXPLICITLY PERMITTED OTHERWISE BY THE AUTHORITY HAVING JURISDICTION (AHJ).

2.4 OUTLETS AND JUNCTION BOXES

- A. PROVIDE GALVANIZED STEEL OUTLET/JUNCTION BOXES, 4" SQUARE OR OCTAGONAL. BOXES IN DAMP LOCATIONS SHALL BE WEATHERPROOF TYPE.
- B. FLOOR BOXES SHALL BE WIREMOLD EVOLUTION OR EQUAL.
- C. LABEL ALL JUNCTION BOXES WITH CIRCUIT DESIGNATION.

2.5 WIRING DEVICES

- A. RECEPTACLES: HUBBELL, LEVITON, OR LEGRAND.
- B. SWITCHES: HUBBELL, LEVITON, OR LEGRAND.
- C. RECEPTACLES SHALL BE TAMPER-RESISTANT WHERE REQUIRED BY NEC ARTICLE 406.12.
- D. GFCI AND AFCI PROTECTION REQUIRED AS SPECIFIED BY NEC 2023.
- E. ALL WIRING DEVICES SHALL BE UL LISTED, COMMERCIAL SPECIFICATION GRADE. SWITCHES SHALL BE RATED 20 AMPS AT 120/277 VOLTS, AC. STANDARD RECEPTACLES SHALL BE 20 AMP, DUPLEX, GROUNDING TYPE, IN NEMA CONFIGURATIONS, UNLESS NOTED OTHERWISE . DEVICE COLOR AND COVER PLATE COLOR SHALL BE AS SELECTED BY THE ARCHITECT. COMMERCIAL NYLON DEVICE COVER PLATES: PROVIDE HEAVY-DUTY, SELF-EXTINGUISHING NYLON COVER PLATES, COLOR TO MATCH DEVICES. PLATES SHALL BE IMPACT-RESISTANT, NON-WARPING, AND COMPLETE WITH COLOR-MATCHED MOUNTING SCREWS. ACCEPTABLE MANUFACTURERS: LEVITON, HUBBELL, PASS & SEYMOUR, OR APPROVED EQUAL.
- F. DEVICE HEIGHTS SHALL BE AS FOLLOWS: LIGHTING SWITCH - 44" AFF; STANDARD RECEPTACLE (POWER OR DATA) - 30" AFF; ABOVE COUNTER RECEPTACLE (POWER OR DATA) - 6" ABOVE COUNTER OR BACKSPLASH; RECEPTACLES IN BATHROOM - 42" AFF. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND BACKSPLASH LOCATIONS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL DEVICE LOCATIONS PRIOR TO ROUGH-IN TO AVOID INTERFERENCE WITH BACKSPLASH, TILE, OR FINISHED SURFACES. ANY DEVICES INSTALLED IN CONFLICT WITH ARCHITECTURAL FINISHES SHALL BE RELOCATED AND ALL AFFECTED FINISHES SHALL REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. MOUNTING HEIGHTS INDICATED SHALL BE MEASURED FROM FINISHED FLOOR/TOP OF COUNTER OR BACKSPLASH TO THE BOTTOM OF THE BOX.

2.6 LIGHTING FIXTURES

- A. ALL LIGHTING FIXTURES SHALL BE UL LISTED, COMMERCIAL QUALITY, AND AS SPECIFIED ON FIXTURE SCHEDULE. PROVIDE LED TYPE WITH MINIMUM 50,000-HOUR LIFE EXPECTANCY. INDOOR FIXTURES SHALL BE 3500°K COLOR TEMPERATURE, AND EXTERIOR FIXTURES SHALL BE 4000°K COLOR TEMPERATURE, AND ALL FIXTURES SHALL HAVE A MINIMUM OF 80CRI, UNLESS NOTED OTHERWISE.
- B. ALL FIXTURES AND LAMPS SHALL COMPLY WITH IECC 2021 LIGHTING EFFICACY REQUIREMENTS.
- C. ALL FIXTURES MOUNTED IN CEILING SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE WITH TIE WIRES AT TWO POINTS, MINIMUM.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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Lakeshore Office Renovation and Canopy
Repair
550 Balboa Dr, Monroe, LA

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No.	Description	Date

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E3.01

Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:
ELECTRICAL
SPECIFICATIONS

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ELECTRICAL SPECIFICATIONS CONTINUED:

2.9 PANELBOARDS AND DISTRIBUTION EQUIPMENT

- A. PROVIDE PANELBOARDS WITH COPPER BUS, QUICK-MAKE, QUICK-BREAK THERMAL MAGNETIC BREAKERS, BOLT-ON TYPE.
B. MINIMUM INTERRUPTING CAPACITY OF 22,000 AIC UNLESS OTHERWISE INDICATED.
C. ACCEPTABLE MANUFACTURERS: SQUARE D (QO), EATON (PRL), OR SIEMENS (P1).
D. INCLUDE FULLY TYPEWRITTEN CIRCUIT DIRECTORY.
E. 20 INCHES WIDE (MINIMUM), 5-3/4" TO 6-1/2" DEEP, UL LISTED, MEETING UL 67, UL 50, AND FEDERAL SPECIFICATION W-P-115B AS TYPE 1, CLASS 1. NEMA 3R IF INSTALLED OUTDOORS OR IN WET LOCATION.
F. COPPER OR IN-PLATED ALUMINUM BUS BARS, NEUTRAL BUS, GROUND BUS, AND A HINGED LOCKABLE DOOR IN DOOR TYPE. CABINETS SHALL BE CODE GAUGE, GALVANIZED STEEL.

2.10 MOTOR STARTERS AND CONTACTORS

- E. MOTOR STARTERS:
ALL MOTOR CONTROLLERS SHALL BE UL LISTED AND LABELED IN ACCORDANCE WITH UL 508 AND COMPLY WITH APPLICABLE ANSI/NEMA STANDARDS INCLUDING ICS1 AND ICS2, AS WELL AS IEEE, NFPA, AND OTHER RELEVANT INDUSTRY REGULATIONS. PROVIDE AC MAGNETIC, COMBINATION TYPE, FULL VOLTAGE NON-REVERSING (FVNR) MOTOR STARTERS, RATED TO NEMA (NOT IEC) STANDARDS FOR THE LOAD SERVED. EACH STARTER SHALL BE ENCLOSED IN A NEMA 1 CABINET WITH A LOCKABLE HANDLE. STARTERS SHALL INCLUDE EITHER A MOTOR CIRCUIT PROTECTOR (MCP) OR A FUSIBLE DISCONNECT WITH DUAL-ELEMENT, TIME-DELAY CURRENT LIMITING FUSES. PROVIDE THERMAL OVERLOAD RELAYS WITH MANUAL RESET AND MELTING ALLOY SENSORS SIZED TO MATCH THE NAMEPLATE FULL LOAD AMPS OF THE MOTOR. EACH STARTER SHALL BE CAPABLE OF ACCEPTING A MINIMUM OF TWO (2) AUXILIARY CONTACTS, AND SHALL BE PROVIDED WITH THE QUANTITY INDICATED ON THE PLANS. CONTROL CIRCUIT VOLTAGE SHALL BE 120V AC AND SHALL INCLUDE A FUSED CONTROL TRANSFORMER UNLESS OTHERWISE NOTED. STARTERS SHALL BE SUITABLE FOR THE VOLTAGE, PHASE, AND HORSEPOWER RATINGS OF THE CONNECTED EQUIPMENT. ALL CONTROLS AND COMPONENTS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT FROM THE UPSTREAM OVERCURRENT DEVICE.

ACCEPTABLE MANUFACTURERS INCLUDE ALLEN-BRADLEY, EATON (CUTLER-HAMMER), SIEMENS, SCHNEIDER ELECTRIC (SQUARE D), OR APPROVED EQUAL.

2.11 CIRCUIT AND MOTOR DISCONNECTS

- A. PROVIDE HEAVY-DUTY, NEMA-RATED (NEMA 1 INTERIOR AND NEMA 3R FOR EXTERIOR LOCATIONS) DISCONNECT SWITCHES WITH SWITCHING MECHANISM VISIBLE IN "OFF" POSITION, PADLOCKABLE.
B. ACCEPTABLE MANUFACTURERS: SQUARE D, EATON, OR SIEMENS.
C. LABEL ALL DISCONNECTS WITH PERMANENT PHENOLIC TAG IDENTIFYING EQUIPMENT CONTROLLED.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. INSTALLATION SHALL COMPLY WITH MANUFACTURER’S INSTRUCTIONS AND NEC 2023.
B. MAINTAIN CLEARANCE REQUIREMENTS OF NEC ARTICLE 110.26.
C. ALL RACEWAYS SHALL BE SECURELY SUPPORTED AT INTERVALS SPECIFIED BY NEC.
D. CONDUCTORS INSTALLED WITHOUT SPLICES BETWEEN OUTLET AND JUNCTION BOXES. SPLICES TO BE MADE IN BOXES ONLY.

3.2 GROUNDING

- A. COMPLETE AND EFFECTIVE GROUNDING OF ALL ELECTRICAL SYSTEMS REQUIRED. GROUNDING SHALL COMPLY WITH NEC ARTICLE 250.

3.3 TESTS AND INSPECTIONS

- A. ALL SYSTEMS AND EQUIPMENT SHALL BE TESTED TO CONFIRM PROPER OPERATION, CONTINUITY, INSULATION RESISTANCE, AND COMPLIANCE WITH SPECIFICATIONS. SUBMIT TEST REPORTS TO ARCHITECT.
- B. CONTRACTOR SHALL PERFORM AND DOCUMENT THE FOLLOWING MINIMUM TESTS, AS APPLICABLE, BEFORE ACCEPTANCE:
- INSULATION RESISTANCE TESTS (MEGGER TESTS) ON ALL FEEDER CIRCUITS, MINIMUM 100 MEGOHMS AT 500 VOLTS DC.
 - CONTINUITY TESTS FOR ALL CIRCUITS.
 - GROUNDING RESISTANCE TESTS PER NEC ARTICLE 250.
 - FIRE ALARM SYSTEM ACCEPTANCE TESTS IN PRESENCE OF LOCAL AHJ.
 - PHASE ROTATION TESTING ON ALL MOTORS AND MOTOR STARTERS.

3.4 FIRE ALARM SYSTEM TESTING

- A. FIRE ALARM SYSTEM SHALL BE FULLY TESTED PER NFPA 72 REQUIREMENTS. PROVIDE RECORD OF COMPLETED SYSTEM TESTING AND ACCEPTANCE BY LOCAL FIRE AUTHORITY PRIOR TO OCCUPANCY.

3.5 CLEAN-UP

- A. REMOVE AND LEGALLY DISPOSE OF ALL DEBRIS, SCRAPS, AND UNUSED MATERIAL.

- B. PROVIDE FINAL CLEANING OF ALL ELECTRICAL EQUIPMENT AND DEVICES PRIOR TO SUBSTANTIAL COMPLETION.

3.6 AS-BUILT DRAWINGS AND O&M MANUALS

- A. PROVIDE OPERATION & MAINTENANCE MANUALS TO OWNER AT PROJECT COMPLETION. INCLUDE ALL SYSTEM COMPONENTS AND MANUFACTURER’S DOCUMENTATION. MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION, AND PROVIDE THE OWNER WITH ONE SET UPON COMPLETION OF WORK. PROVIDE THE OWNER’S PERSONNEL WITH ON-SITE INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE COMPLETED ELECTRICAL SYSTEM.

3.7 WARRANTY

- A. GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE. ANY DEFECTS ARISING DURING THIS PERIOD SHALL BE PROMPTLY REPAIRED AT NO COST TO OWNER.

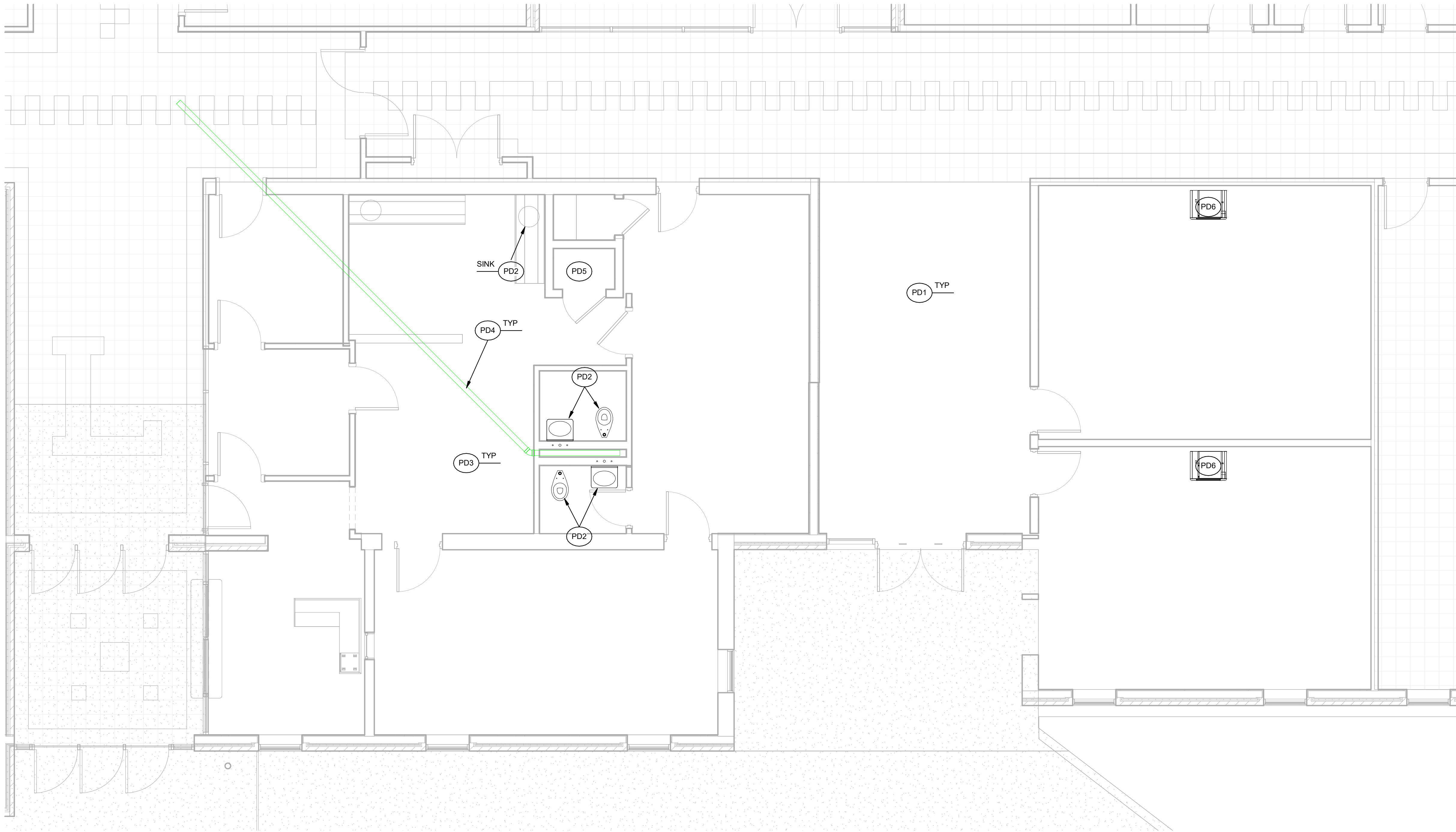
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ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
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E3.02	
Date:	2025
Project No.:	25-WM0039
File Name:	
DESCRIPTION:	
ELECTRICAL SPECIFICATIONS	



1
1ST FLOOR PLAN - PLUMBING
DEMOLITION
1/4" = 1'-0"

PLUMBING DEMOLITION NOTES

- PD1 REFERENCE GENERAL PLUMBING NOTES ON SHEET P2.01.
- PD2 DISCONNECT, REMOVE, AND DISCARD EXISTING PLUMBING FIXTURE, ASSOCIATED TRIM, AND ROUGH-IN. CAP WASTE PIPING BELOW SLAB AND GROUT FLUSH TO FINISHED FLOOR. REMOVE AND DISCARD VENT AND DOMESTIC WATER BRANCH PIPING BACK TO MAIN AND CAP. DO NOT LEAVE ANY DEAD LEGS. FIELD VERIFY EXISTING CONDITIONS.
- PD3 ALL FLOOR, WALL, AND CEILING PENETRATIONS RESULTING FROM REMOVAL OF PLUMBING EQUIPMENT OR PIPING SHALL BE SEALED, PATCHED, AND FINISHED TO MATCH ADJACENT SURFACES, PER ARCHITECTURAL REQUIREMENTS.
- PD4 ROD-OUT, CLEAN, AND FLUSH ALL EXISTING SANITARY SEWER MAINS TO REMAIN, INCLUDING INTERIOR AND EXTERIOR SECTIONS FROM THE BUILDING TO THE EXISTING MANHOLE OR CITY MAIN CONNECTION. UPON COMPLETION, PROVIDE VERIFICATION CONFIRMING PROPER FLOW.
- PD5 DISCONNECT AND REMOVE EXISTING CONDENSATE DRAIN PIPING. CAP WASTE PIPING BELOW SLAB AND GROUT FLUSH TO FINISHED FLOOR. REMOVE VENT BRANCH PIPING BACK TO MAIN AND CAP.
- PD6 DISCONNECT AND REMOVE EXISTING CONDENSATE DRAIN PIPING FROM HYDRONIC FAN COIL UNIT TO SOURCE. CAP WASTE PIPING BELOW SLAB AND GROUT FLUSH TO FINISHED FLOOR. REMOVE VENT BRANCH PIPING BACK TO MAIN AND CAP.

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ARCHITECTURE
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PD1.01

Date: 2025

Project No.: 25-WM0039

File Name:

DESCRIPTION:

FLOOR PLAN -
PLUMBING
DEMOLITION

1 FLOOR PLAN - DOMESTIC WATER
1/4" = 1'-0"

PLUMBING NOTES

- P1 REFERENCE GENERAL PLUMBING NOTES ON SHEET P2.01.
- P2 PATCH, REPAIR, AND RESTORE ALL WALLS, FLOORS, CEILINGS, AND FINISHES DAMAGED OR REMOVED AS PART OF PLUMBING WORK. ALL PATCHING SHALL MATCH ADJACENT CONSTRUCTION AND BE ACCEPTABLE TO THE ARCHITECT.
- P3 TEST ALL NEW CONNECTIONS FOR LEAKS PRIOR TO FINAL FINISH INSTALLATION.
- P4 PROVIDE ESCUTCHEONS AT ALL WALL PENETRATIONS OF EXPOSED PIPING.
- P5 PROVIDE 1/2" TYPE "L" SOFT COPPER FROM "WATER SAVER" TRAP PRIMER DOWN IN WALL/CHASE AND U/S TO FLOOR DRAIN.
- P6 PROVIDE AUTOMATIC FLOW-SPLITTING BALANCING VALVE EQUAL TO KEMPER KHS FLOW-SPLITTER. VALVE SIZE SHALL MATCH THE HOT WATER MAIN LOOP SIZE AT THE INLET AND OUTLET OF THE VALVE. THE BRANCH OUTLET AND RETURN SIZE SHALL MATCH THE PIPE SIZE SERVING THE CONNECTED FIXTURE(S).
- P7 EXTEND 1-1/2" DOMESTIC COLD WATER FROM RENOVATED AREA AND CONNECT TO EXISTING DOMESTIC COLD WATER SYSTEM IN THE BUILDING. CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING PIPING PRIOR TO CONNECTION AND SHALL CONFIRM THAT EXISTING PIPING IS OF ADEQUATE SIZE AND CAPACITY TO SERVE THE ADDITIONAL LOAD. COORDINATE SHUTDOWN AND CONNECTION WORK WITH OWNER TO MINIMIZE INTERRUPTION TO BUILDING OPERATIONS; SHUTDOWN DURATION SHALL BE LIMITED TO THE MINIMUM TIME NECESSARY TO MAKE THE CONNECTION. VERIFY ACCEPTABLE CONNECTION LOCATION WITH ENGINEER PRIOR TO INSTALLATION. PROVIDE ALL FITTINGS, VALVES, AND MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL CONNECTION.
- P8 1" CW ABOVE CEILING. TURN DOWN IN WALL/CHASE AND CONNECT TO WATER CLOSET FLUSH VALVE CONNECTION.
- P9 1/2" CW ABOVE CEILING. TURN DOWN IN WALL/CHASE AND CONNECT TO SINK/LAVATORY.
- P10 1/2" CW ABOVE CEILING. TURN DOWN IN WALL/CHASE AND CONNECT TO WOB.
- P11 EXTEND HOT WATER LOOP DN/UP IN WALL/CHASE. HOT WATER LOOP PIPING SHALL BE WITHIN 2' OF EACH FIXTURE HOT WATER CONNECTION.
- P12 PROVIDE ALL REQUIREMENTS ASSOCIATED WITH THE WATER HEATER AS REFERENCED IN DETAIL 2 ON SHEET P2.02.

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550 Balboa Dr, Monroe, LA

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ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
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P1.02




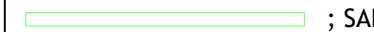

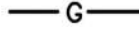




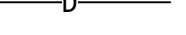














Date: 2025
Project No.: 25-WM0039
File Name:

DESCRIPTION:
FLOOR PLAN -
DOMESTIC WATER

PLUMBING FIXTURE SCHEDULE				
Type Mark	Description	Manufacturer	Model	PLUMBING FIXTURE NOTES
FD-1	FLOOR DRAIN WITH 7" STRAINER AND 3" PIPE SIZE	ZURN	ZN415N	CAST IRON BODY AND CAST IRON FLASHING COLLAR WITH POLISHED ROUND 7" NICKEL BRONZE STRAINER (ADJUSTABLE). COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS. 3" BOTTOM DRAIN OUTLET. 1/2" TRAP PRIMER CONNECTION.
FS-1	12" X 12" FLOOR SINK	ZURN	ZN1901	SANI-FLOOR RECEPTOR, 2" OUTLET, 12" X 12" X 8" DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS. WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER. PROVIDE FULL GRATE.
LH1	WALL HUNG LAVATORY	KOHLER	K-2005-4	21-1/4" X 18-1/8" WHITE VITREOUS CHINA, WALL HUNG LAVATORY WITH OVERFLOW AND 4" FAUCET CENTERS. PROVIDE AMERICAN STANDARD MONTERREY 5500.175 CHROME DECK MOUNTED FAUCET WITH ADA-COMPLIANT VANDAL-RESISTANT WRIST BLADE HANDLES, 3-3/4" SPOUT, 0.5 GPM PCA VANDAL-RESISTANT MULTI-LAMINAR SPRAY AERATOR. PROVIDE MCGUIRE ANGLE HOT AND COLD WATER SUPPLIES WITH LOOSE KEY STOPS AND RIGID RISERS, MCGUIRE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND OUTLET TO WALL WITH ESCUTCHEON, MCGUIRE ADA COMPLIANT OFFSET CHROME PLATED CAST BRASS TAILPIECE WITH OPEN GRID STRAINER. PROVIDE FLOOR SUPPORTED CONCEALED ARM CARRIER EQUAL TO WADE W520. PROVIDE ASSE 1070 RATED THERMOSTATIC MIXING VALVE EQUAL TO BRADLEY 559-4000A WITH MOUNTING BRACKET. PROVIDE TRUEBRO LAV GUARD 2 E-Z SERIES PIPE COVERS. CONNECTION SIZES: CW = 1/2", HW = 1/2", WD = 1 1/4".
LH2	Vitreous China Drop-In Lavatory.	Sloan Valve	SS-3802	20" X 17" WHITE VITREOUS CHINA, DROP-IN SELF-RIMMING LAVATORY WITH OVERFLOW AND 8" FAUCET CENTERS. PROVIDE AMERICAN STANDARD MONTERREY 5500.170 CHROME DECK MOUNTED FAUCET WITH ADA-COMPLIANT VANDAL-RESISTANT WRIST BLADE HANDLES, 4" SPOUT, 0.5 GPM PCA VANDAL-RESISTANT MULTI-LAMINAR SPRAY AERATOR. PROVIDE MCGUIRE ANGLE HOT AND COLD WATER SUPPLIES WITH LOOSE KEY STOPS AND RIGID RISERS, MCGUIRE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND OUTLET TO WALL WITH ESCUTCHEON, MCGUIRE ADA COMPLIANT OFFSET CHROME PLATED CAST BRASS TAILPIECE WITH OPEN GRID DRAIN. PROVIDE ASSE 1070 RATED THERMOSTATIC MIXING VALVE EQUAL TO BRADLEY 559-4000A WITH MOUNTING BRACKET. PROVIDE TRUEBRO LAV GUARD 2 E-Z SERIES PIPE COVERS. CONNECTION SIZES: CW = 1/2", HW = 1/2", WD = 1-1/4".
S1	Lustertone Double Bowl Sink	Elkay Manufacturing	LRAD372260	ELKAY "LUSTERONE" 37" X 22" X 6" DEEP EQUAL DOUBLE BOWL DROP-IN SELF-RIMMING ADA SINK, 18 GAUGE 304 STAINLESS STEEL, COATED UNDERSIDE, 4-HOLE DRILLING ON 4" CENTERS. PROVIDE ELKAY LKJ35 304 STAINLESS STEEL BODY/STRAINERS WITH STRAINER BASKETS AND LK53 CONTINUOUS WASTE CONNECTION. PROVIDE ELKAY LKD2433C TRIM WITH ARC SWING SPOUT AND SIDE SPRAY, 1.5 GPM AERATOR, 2-5/8" CHROME LEVER HANDLES. PROVIDE MCGUIRE ANGLE STOPS WITH CROSS HANDLES, RIGID RISERS, AND CHROME-PLATED BRASS P-TRAP. PROVIDE TRUEBRO LAV GUARD 2 E-Z SERIES PIPE COVERS. CONNECTION SIZES: CW=1/2", HW=1/2", WD=1-1/2".
S2	Elkay Lustertone® Classic Stainless Steel 22 inches x 19 1/2 inches x 6 1/2 inches Single Bowl Drop-in Classroom ADA Sink	Elkay Manufacturer Company	LRAD1919553	ELKAY "LUSTERONE" 19-1/2" X 19" X 5-1/2" DEEP SINGLE BOWL DROP-IN SELF-RIMMING ADA SINK, 18 GAUGE 304 STAINLESS STEEL, CENTER DRAIN, 3-HOLE DRILLING ON 4" CENTERS. PROVIDE ELKAY "DELUXE" 304 STAINLESS STEEL BODY/STRAINER/3-1/2" TAILPIECE. PROVIDE ELKAY LKD2442C TRIM WITH ARC SWING SPOUT, 8" SPOUT REACH, 1.5 GPM AERATOR, 2.6" CHROME LEVER HANDLES. PROVIDE MCGUIRE ANGLE STOPS WITH CROSS HANDLES, RIGID RISERS, AND CHROME-PLATED BRASS P-TRAP. PROVIDE TRUEBRO LAV GUARD 2 E-Z SERIES PIPE COVERS. CONNECTION SIZES: CW = 1/2", HW = 1/2", WD = 1-1/2".
WC-1	FLOOR MOUNT FLUSH VALVE WATER CLOSET ADA	KOHLER	K-96057	VITREOUS CHINA LOW CONSUMPTION ELONGATED FRONT RIM, SIPHON JET FLUSH VALVE FLOOR MOUNTED WATER CLOSET. 1-1/2" TOP SPUD AND 2 BOLT CAPS. 2-1/8" FULLY GLAZED TRAPWAY. ADA COMPLIANT. PROVIDE SEAT EQUAL TO CHURCH 9500CT, ELONGATED, LESS COVER; COORDINATE COLOR WITH ARCHITECT. PROVIDE 1.28 GPF FLUSHOMETER MANUAL FLUSH VALVE, POLISHED CHROME, SINGLE FLUSH, SEMI-RED BRASS VALVE BODY, WITH 1-1/2" SPUD COUPLING AND 1" SUPPLY PIPE, VACUUM BREAKER, DIAPHRAGM VALVE, ADJUSTABLE TAILPIECE, SWEAT SOLDER ADAPTER, ANGLE STOP. CONNECTION SIZES: CW = 1", WD = 4".
WOB	RECESSED WATER OUTLET BOX	IPS Corporation	MIB2HAAB	7" X 7" RECESSED DISHWASHER OUTLET BOX WITH 3/8" OUTLET, LEAD FREE 1/4-TURN ARRESTER VALVE, 1/2" SWT CONNECTION. BOX SHALL BE WHITE POWDER-COATED COLD ROLLED STEEL. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.

GENERAL PLUMBING NOTES	
1	THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL, INCLUDING ALL NECESSARY MATERIALS, LABOR, EQUIPMENT, AND SERVICES REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.
2	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO PROVIDE A COMPLETE, FUNCTIONAL, AND FULLY OPERATIONAL SYSTEM. THIS INCLUDES ITEMS EXPLICITLY SPECIFIED AS WELL AS THOSE IMPLIED OR REQUIRED BY STANDARD INDUSTRY PRACTICE, EVEN IF NOT SPECIFICALLY MENTIONED ON THE DRAWINGS OR SPECIFICATIONS.
3	PVC PIPING SHALL NOT BE INSTALLED WITHIN RETURN AIR PLENUMS. WHERE PVC PIPING PENETRATIONS THROUGH FIRE-RATED WALLS, CEILINGS, OR FLOORS OCCUR, THE CONTRACTOR SHALL PROVIDE LISTED FIRESTOP SYSTEMS THAT MAINTAIN THE FIRE RATINGS OF THE ASSEMBLY, IN COMPLIANCE WITH APPLICABLE BUILDING AND FIRE CODES (E.G., IBC, NFPA). IN ALL OTHER CASES, THE CONTRACTOR SHALL USE APPROVED NON-COMBUSTIBLE OR FIRE-RATED PIPING MATERIALS IN THESE LOCATIONS. ALL PENETRATIONS SHALL BE SEALED AND TESTED IN ACCORDANCE WITH CODE REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.
4	ALL PIPE PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED WITH AN APPROVED UL-LISTED FIRESTOPPING ASSEMBLY, MEETING FIRE RESISTANCE DIRECTORY STANDARDS, LATEST APPLICABLE EDITION.
5	ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE LATEST APPLICABLE EDITION OF THE UNIFORM PLUMBING CODE (UPC), ALL LOCAL CODES, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
6	VTRs SHALL BE LOCATED A MINIMUM OF 15 FEET FROM ALL HVAC OUTSIDE AIR INTAKES.
7	PROVIDE ADA COMPLIANT FLUSH VALVE OPERATORS AT ACCESSIBLE TOILET FIXTURES. OPERATORS SHALL BE INSTALLED ON THE OPEN SIDE OF EACH FIXTURE.
8	CONTRACTOR SHALL CLOSELY COORDINATE ALL PLUMBING FIXTURE TYPES, LOCATIONS, MOUNTING HEIGHTS, AND ROUGH-IN REQUIREMENTS WITH ARCHITECTURAL PLANS PRIOR TO START OF ROUGH-IN.
9	UNDERGROUND SANITARY WASTE PIPING SHALL BE INSTALLED WITH A MINIMUM UNIFORM SLOPE OF 1/8" PER FOOT. PROVIDE CLEANOUTS AS REQUIRED BY CODE AT ALL DIRECTION CHANGES GREATER THAN 45 DEGREES AND AT THE BASE OF STACKS SERVING MULTIPLE FIXTURES.
10	LOCATE FULL-PORT DOMESTIC WATER BALL VALVES NO HIGHER THAN 12" ABOVE FINISHED CEILING IN AREAS READILY ACCESSIBLE FOR MAINTENANCE AND SERVICE. COORDINATE PRECISE VALVE PLACEMENT AND REQUIRED ACCESS PANEL LOCATIONS WITH HVAC, LIGHTING, AND STRUCTURAL PRIOR TO INSTALLATION.
11	PROVIDE ACCESS PANELS IN ALL NON-ACCESSIBLE CEILINGS AND WALLS FOR VALVES, SHOCK ABSORBERS, CLEANOUTS, AND ANY OTHER DEVICES OR EQUIPMENT REQUIRING MAINTENANCE OR SERVICE. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL PLANS AND REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
12	PIPING INDICATED ON THESE PLANS IS DIAGRAMMATIC AND INTENDED TO SHOW GENERAL LAYOUT AND INTENT. EXACT LOCATIONS, ROUTING, AND FITTINGS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL COORDINATE ALL PIPING INSTALLATION WITH OTHER TRADES, INCLUDING BUT NOT LIMITED TO HVAC, ELECTRICAL, AND STRUCTURAL SYSTEMS, PRIOR TO INSTALLATION.
13	PROVIDE NINE (9) FEET OF SEPARATION IN ALL DIRECTIONS BETWEEN UNDERGROUND DOMESTIC WATER PIPING AND SANITARY SEWER PIPING. WHERE THIS SEPARATION DISTANCE IS NOT ACHIEVABLE, PROVIDE PIPING SYSTEMS IN ACCORDANCE WITH THE TEXAS ADMINISTRATIVE CODE AND THE UNIFORM PLUMBING CODE.
14	ALL PUBLIC LAVATORIES AND HAND-WASH SINKS SHALL BE PROVIDED WITH TEMPERED WATER DELIVERED THROUGH POINT-OF-USE THERMOSTATIC MIXING VALVES LOCATED AT FIXTURE IN ACCORDANCE WITH LOCAL CODES; MIXING VALVES SHALL MAINTAIN DELIVERED WATER TEMPERATURE AT 110°F MAXIMUM.
15	COORDINATE THE EXACT LAYOUT AND ROUGH-IN REQUIREMENTS OF THE PLUMBING SYSTEM WITH FINAL APPROVED ARCHITECTURAL PLANS (INCLUDING ADDENDUMS) AND WITH THE ARCHITECT & OWNER PRIOR TO INSTALLATION OF PIPING AND SLAB POUR.
16	UNDERSLAB VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO THE HORIZONTAL DRAIN PIPING TO WHICH IT CONNECTS, AT A MINIMUM SLOPE OF 1/8 INCH PER FOOT (1% SLOPE) OR STEEPER (UP TO 45 DEGREES) WHERE FEASIBLE. THE CONTRACTOR SHALL PROVIDE A CLEANOUT AT THE BASE OF EACH VERTICAL STACK SERVED BY THE VENT PIPING, LOCATED IN THE WALL OR ABOVE THE CEILING, UNLESS OTHERWISE NOTED ON THE PLANS. CLEANOUTS SHALL BE ACCESSIBLE AND COORDINATED WITH ARCHITECTURAL AND STRUCTURAL ELEMENTS (E.G., THROUGH ACCESS PANELS IF ABOVE NON-ACCESSIBLE CEILING).
17	ALL WASTE MAIN PIPING BELOW SLAB SHALL BE MINIMUM 3" IN DIAMETER AND INSTALLED WITH A MINIMUM SLOPE OF 1/8" PER FOOT. PROVIDE LONG-SWEEP REDUCING ELBOWS AND WYE OR COMBINATION FITTINGS FOR CONNECTIONS AT 2" WASTE AND VENT STACKS SERVING LAVATORIES, SINKS, ELECTRIC WATER COOLERS, AND URINALS. ENSURE INSTALLATION COMPLIES WITH THE LATEST EDITION OF THE UNIFORM PLUMBING CODE AND LOCAL AMENDMENTS.
18	COORDINATE THE INSTALLATION OF FIXTURE CARRIERS WITH THE GENERAL CONTRACTOR. BLOCK OUT STUDS AND PROVIDE ADEQUATE BLOCKING AND REINFORCEMENT IN WALLS AS REQUIRED TO SUPPORT FIXTURE CARRIERS AND PROVIDE SUFFICIENT CLEARANCE FOR THEIR INSTALLATION.
19	COORDINATE EXACT STACK, VENT, AND HEADER LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL ELEMENTS PRIOR TO INSTALLATION.
20	PROVIDE WATER HAMMER ARRESTERS IN ACCORDANCE WITH PDI-VH201 AND IPC REQUIREMENTS AT ALL QUICK-CLOSING VALVES, INCLUDING BUT NOT LIMITED TO: DISHWASHERS, WASHING MACHINES, ICE MAKERS, SOLENOID-OPERATED VALVES, AND FLUSH VALVES. SIZE AND LOCATE PER MANUFACTURER'S RECOMMENDATIONS AND ACCESSIBILITY REQUIREMENTS.

PLUMBING LEGEND

	; CW	DOMESTIC COLD WATER
	; HW	DOMESTIC HOT WATER (120° F, UNLESS NOTED OTHERWISE)
	; HWR	DOMESTIC HOT WATER RETURN
	; V	SANITARY VENT
	; SAN	SANITARY WASTE
	; F	FIRE SPRINKLER SUPPLY
	; COND	CONDENSATE DRAIN LINE
		LOW PRESSURE GAS
		PIPE RISER DOWN
		PIPE RISER UP
	VTR	VENT THROUGH ROOF
		GAS COCK
		CONNECT TO EXISTING
		DRAIN LINE
	FCO	FLOOR CLEANOUT
	FFCO	FINISHED FLOOR CLEANOUT
	WCO	WALL CLEANOUT
	ABV	ABOVE
	AFF	ABOVE FINISHED FLOOR
	CLG	CEILING
	BLDG	BUILDING
	DN	DOWN
	EXTG	EXISTING
	TYP	TYPICAL
	U/F	UNDER FLOOR
	U/S	UNDER SLAB
	U/G	UNDERGROUND
	UNO	UNLESS NOTED OTHERWISE
		UNION
		FULL PORT BALL SHUTOFF VALVE
		FLOOR DRAIN
	ETR	EXISTING TO REMAIN

NOTE: SOME SYMBOLS MAY NOT BE USED.

ELECTRIC WATER HEATER SCHEDULE													
Mark	TANK STORAGE (GAL)	GPH @ 100°F RISE	FUEL	ELECTRICAL (V/PH)	WATER HEATER ELEMENT KW	NUMBER OF ELEMENTS	SIMULTANEOUS ELEMENTS	MANUFACTURER	MODEL	INLET SIZE	OUTLET SIZE	LOCATION	REMARKS
WH-1	30	18	ELECTRIC	208/1	4.5	2	No	AO SMITH	DEL-30	3/4" NPT	3/4" NPT	MEP 108	4" THICK HOUSEKEEPING PAD ELECTRIC WATER HEATER; EXTRUDED HIGH DENSITY ANODE ROD; ALL INTERNAL SURFACES OF THE HEATERS EXPOSED TO WATER SHALL BE GLASSLINED WITH AN ALKALINE BOROSILICATE COMPOSITION, FUSED-TO-STEEL; HEATING ELEMENTS SHALL BE MEDIUM WATT DENSITY WITH ZINC PLATED COPPER SHEATH; EACH ELEMENT SHALL BE CONTROLLED BY AN INDIVIDUALLY MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUTOFF SWITCH; BAKED ENAMEL OUTER JACKET; FOAM INSULATED TANK; FACTORY T&P VALVE

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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Lakeshore Office Renovation and Canopy Repair

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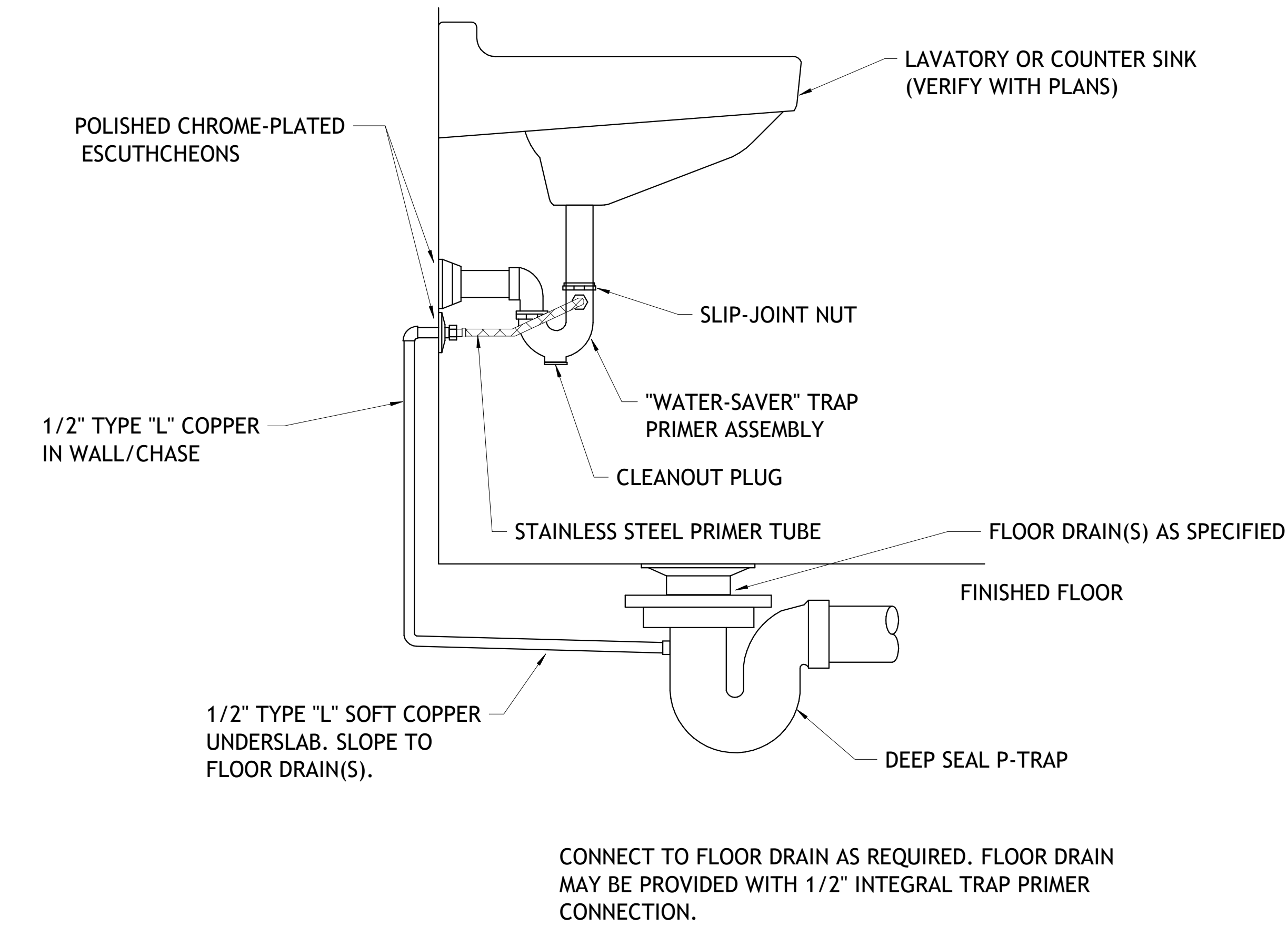
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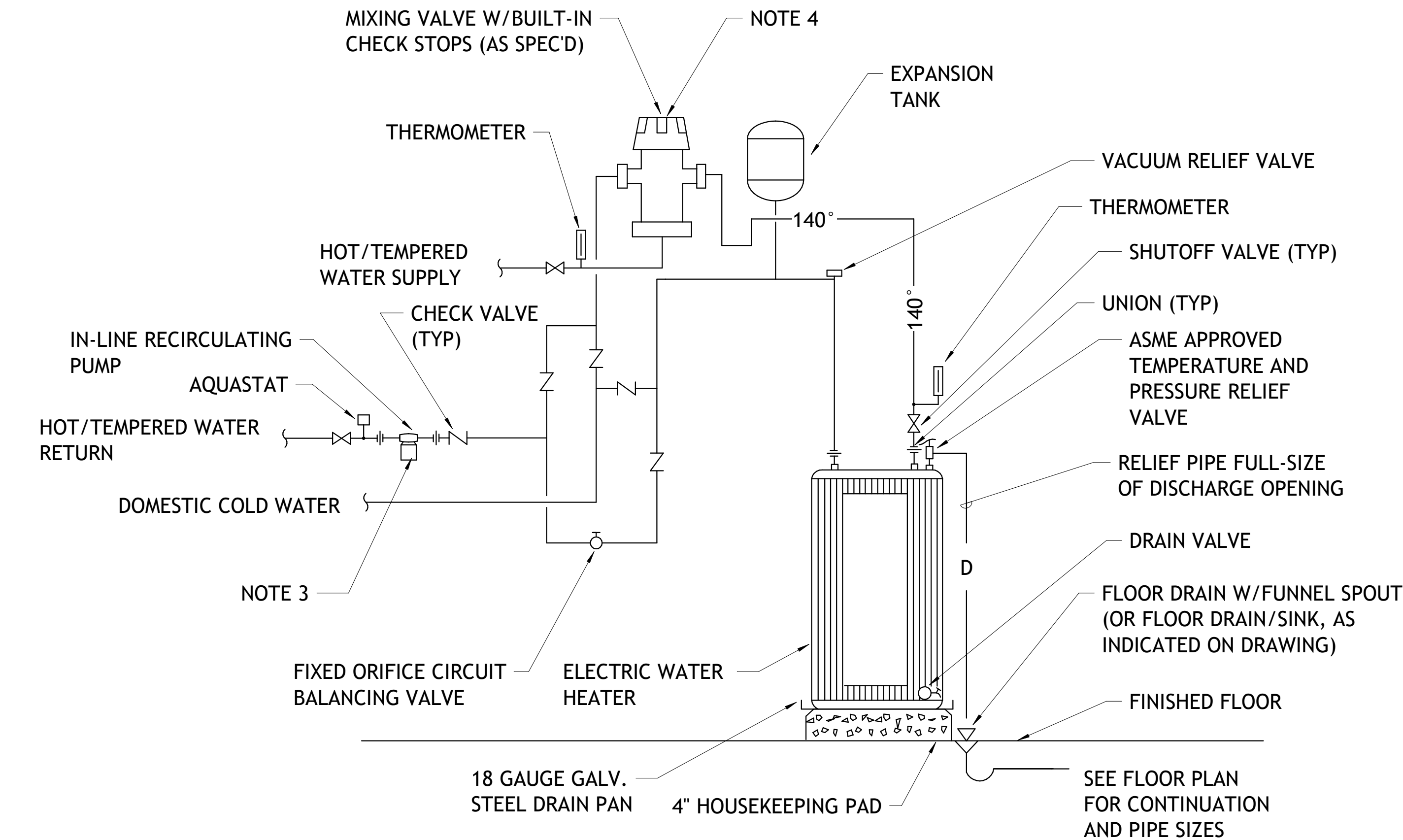
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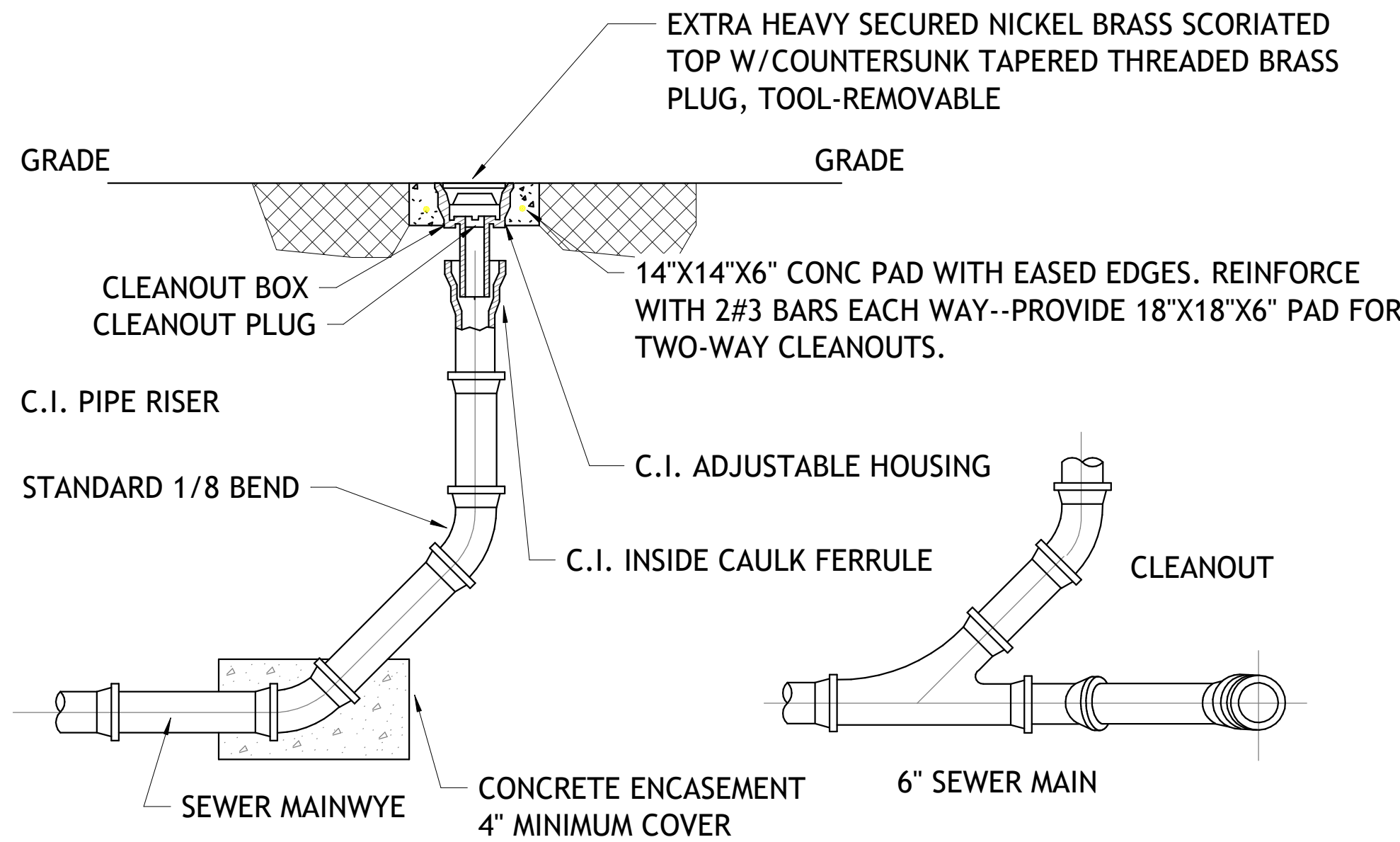


DETAIL - "WATER SAVER" TRAP PRIMER ASSEMBLY
NO SCALE



DETAIL - ELECTRIC WATER HEATER - FLOOR MOUNTED
NO SCALE

CLEANOUTS				
MARK	MANUFACTURER	TYPE	MODEL NO.	REMARKS
WCO	SIOUX CHIEF	FINISHED WALLS	873	BRASS PLUG; ROUND STAINLESS STEEL ACCESS COVER WITH SCREW
FCO	SIOUX CHIEF	HARD FINISHED FLOOR	852	PVC BODY; ROUND ADJUSTABLE NICKEL BRONZE CORRUGATED TOP, PVC CLOSURE PLUG
FCO	SIOUX CHIEF	CARPETED FINISHED FLOOR	852-C	PVC BODY; ROUND ADJUSTABLE NICKEL BRONZE CORRUGATED TOP, PVC CLOSURE PLUG W/ CARPET MARKER
CO	SIOUX CHIEF	FINISHED GRADE	852	PVC BODY AND CLOSURE PLUG WITH ROUND CAST IRON TRACTOR TYPE TOP



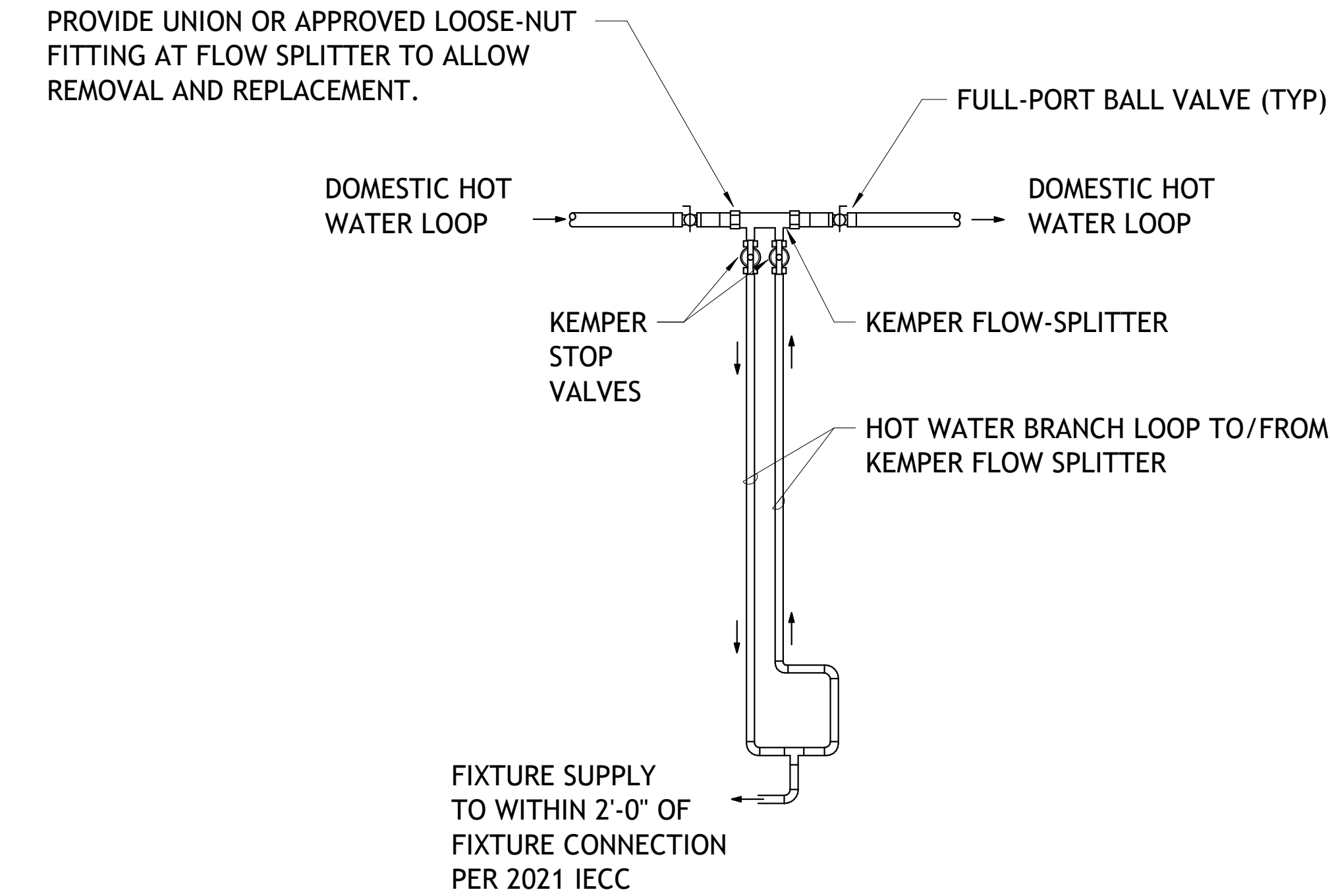
DETAIL - EXTERIOR CLEANOUTS
NO SCALE

NOTE:
1. PIPING DIAGRAM SHOWN IS SPECIFIC TO A SPECIFIC MANUFACTURER'S MIXING VALVES. MATCH REQUIRED/RECOMMENDED PIPING DIAGRAM OF MIXING VALVE MANUFACTURER PROVIDED. MIXING VALVE MUST BE CAPABLE OF PROPER OPERATION DN TO 0.5 GPM FLOW THRU SYSTEM UNLESS NOTED OTHERWISE. PIPE IN STRICT ACCORDANCE WITH MIXING VALVE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. FOR EACH HEATED-WATER CIRCULATED SYSTEM/TEMPERATURE MAINTENANCE SYSTEM, PROVIDE CIRCULATION PUMP. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMP SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NOT A DEMAND FOR HOT WATER. CONTROLS SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE, SENSING THE PRESENCE OF A USER OF A FIXTURE, OR SENSING THE FLOW OF HOT OR TEMPERED WATER TO A FIXTURE FITTING OR APPLIANCE.
3. PROVIDE HOT WATER CIRCULATOR PUMP EQUAL TO TACO 006e3 ECM CIRCULATOR, MAXIMUM 13 FEET HEAD, MAX FLOW 11 GPM, 120V, 1Ø, ECM MOTOR.
4. PROVIDE WATTS LFLM490-10, 1" LEAD-FREE MASTER THERMOSTATIC MIXING VALVE, ASSE 1017, ADJUSTABLE 90-160°F, SET TO DELIVER 120°F, WITH INTEGRAL CHECK STOPS, STRAINERS, UNION BALL VALVES, AND THERMOMETER. VALVE SHALL OPERATE DOWN TO 0.5 GPM WITH RECIRCULATION AND UP TO 35 GPM PEAK DEMAND. STORAGE TEMPERATURE 140°F.

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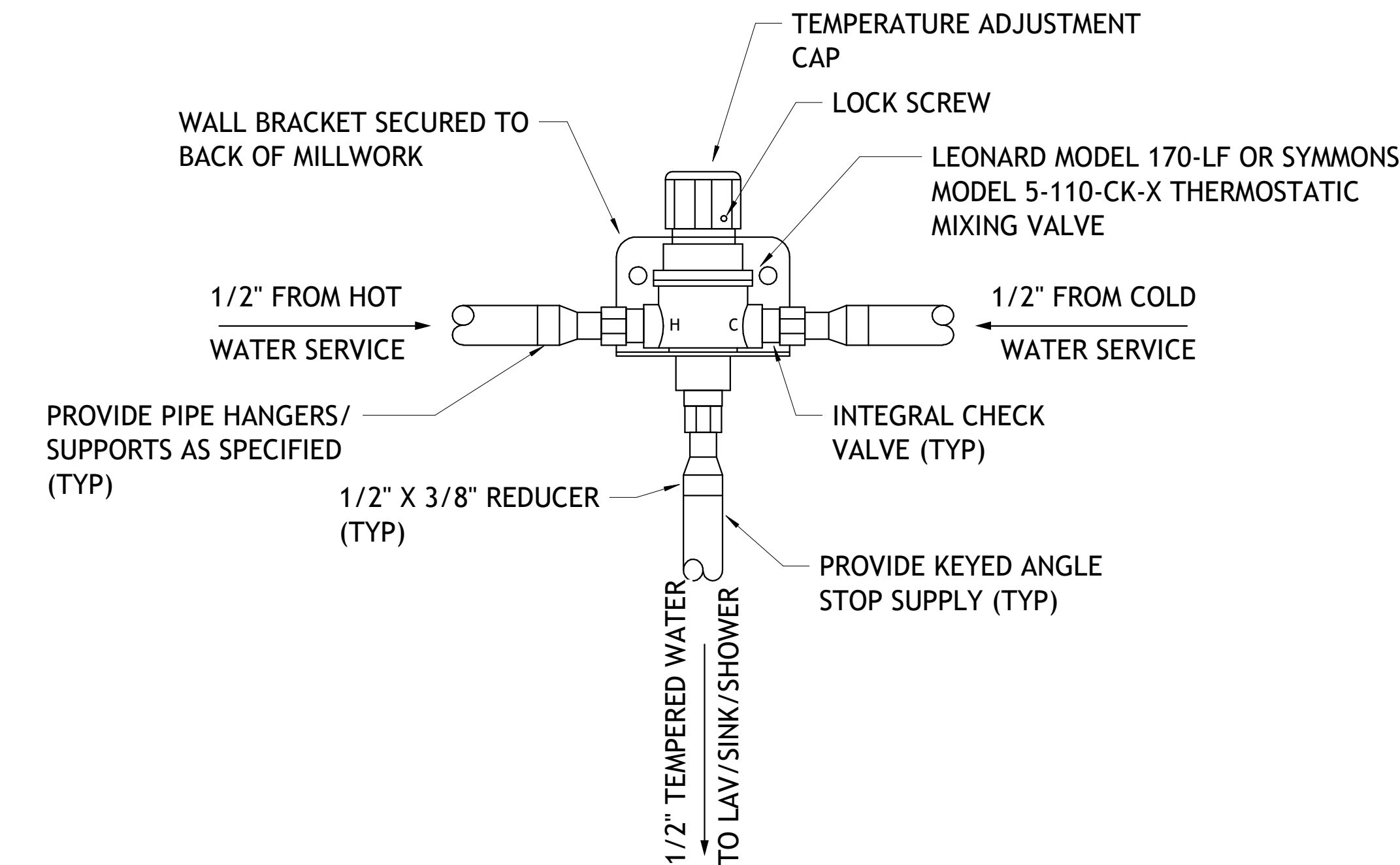
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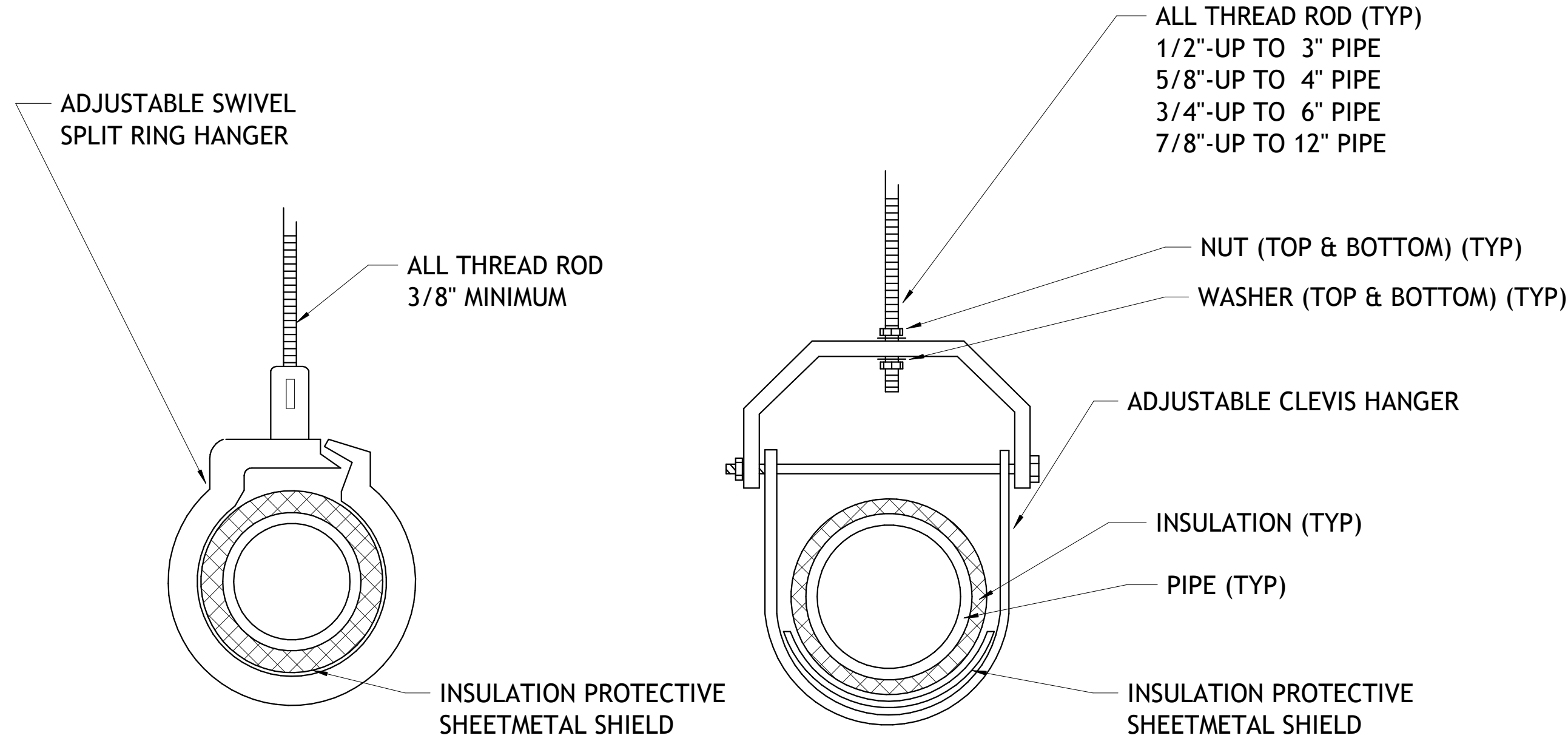


- NOTES:
1. PROVIDE TEMPORARY NIPPLE INSTALLED IN PLACE OF FLOW-SPLITTER FOR SYSTEM FLUSHING PRIOR TO INSTALLATION OF FLOW-SPLITTER.
 2. PROVIDE FULL-PORT BALL VALVES FOR ISOLATION OF FLOW-SPLITTER CONNECTIONS TO DOMESTIC HOT WATER LOOP.

① DETAIL - KEMPER FLOW-SPLITTER DETAIL
NO SCALE



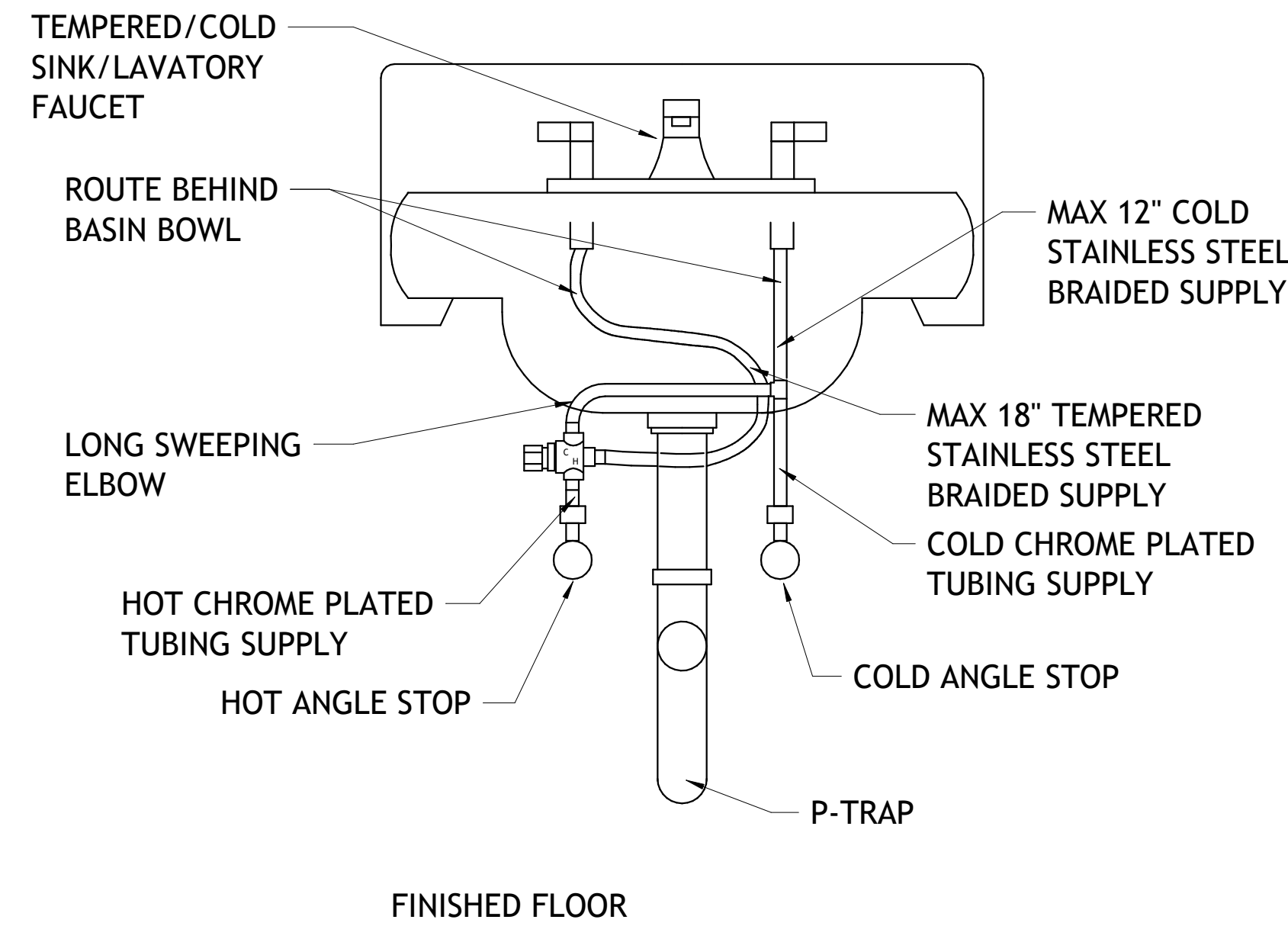
③ DETAIL - POINT-OF-USE MIXING VALVE
NO SCALE



ALL SYSTEMS LINES
2" & SMALLER

ALL SYSTEMS LINES
2 1/2" & LARGER

② DETAIL - PIPE SUPPORTS
NO SCALE



- NOTES:
1. THERMOSTATIC MIXING VALVE SHALL BE WALL MOUNTED, 8" FROM EDGE OF LAVATORY, WITH WALL BRACKET AND RUBBER SPACER BETWEEN WALL AND TMV. USE ANCHOR SYSTEM.
 2. STAINLESS STEEL SUPPLY LINES SHALL BE KEPT TO MINIMUM LENGTH.

④ DETAIL - TEMPERED & COLD SUPPLY LAVATORY DETAIL
NO SCALE

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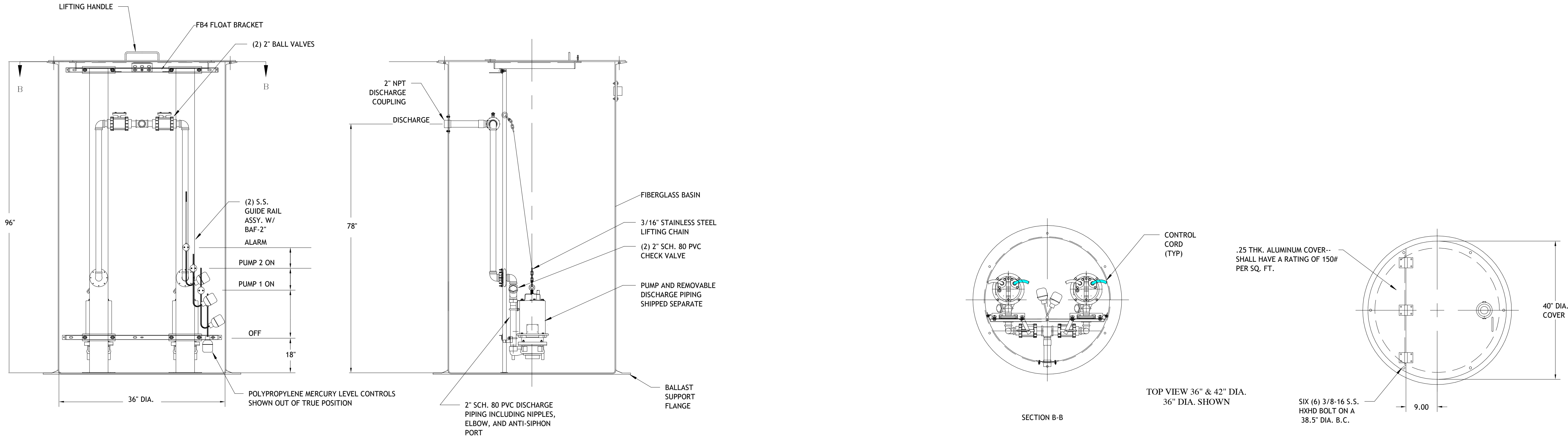
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Date: 2025

Project No.: 25-WM0039

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PLUMBING
SCHEDULES &
DETAILS



1 DETAIL - LIFT STATION
NO SCALE

LIFT STATION SPECIFICATION:

DUPLEX 2 HP GRINDER PUMP STATION

PART A - GENERAL

A.1 GENERAL CONDITIONS

ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED MECHANICAL CONTRACTORS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE COMPLY WITH THE LATEST EDITIONS OF INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL PLUMBING CODE (IPC), AND ALL APPLICABLE LOCAL AND STATE REGULATIONS.

ALL MATERIALS AND EQUIPMENT SHALL BE NEW, DEFECT-FREE, AND MEET OR EXCEED INDUSTRY STANDARDS.

CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION.

A.2 SUBMITTALS

PROVIDE SHOP DRAWINGS, PRODUCT DATA, AND CUT SHEETS FOR THE DUPLEX GRINDER PUMP STATION, INCLUDING BASIN, GRINDER PUMPS, DISCHARGE PIPING, VALVES, CONTROLS, FLOATS, AND ALL ASSOCIATED APPURTENANCES, FOR ARCHITECT/ENGINEER REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS.

A.3 GUARANTEE AND WARRANTY

PROVIDE A ONE-YEAR WARRANTY ON ALL MATERIALS AND WORKMANSHIP FROM DATE OF FINAL ACCEPTANCE.

REPAIR OR REPLACE DEFECTIVE MATERIALS AND/OR WORKMANSHIP AT NO COST TO OWNER.

SECTION B - EQUIPMENT AND INSTALLATION REQUIREMENTS

B.1 BASIN

THE BASIN SHALL BE CONSTRUCTED OF FILAMENT WOUND FIBERGLASS/RESIN AND MANUFACTURED WITH PREMIUM E-TYPE CONTINUOUS GLASS FIBERS MAINTAINED IN HIGH CONSTANT TENSION DURING THE MANUFACTURING PROCESS; 65% GLASS CONTENT.

BASIN CAPACITIES, DIMENSIONS AND MINIMUM BURIAL DEPTH TO ENSURE PIPE COVER SHALL BE AS SHOWN ON PLANS. BASIN SHALL BE CAPABLE OF WITHSTANDING 150% OF THE ANTICIPATED MAXIMUM PRESSURE EXERTED BY SATURATED SOIL (120 LB/CF) AT MAXIMUM BURY DEPTH. ALL STATION COMPONENTS SHALL FUNCTION NORMALLY WHEN EXPOSED TO THESE LOADINGS.

BASIN SHALL HAVE AN ANTI-FLOTATION COLLAR EXTENDING A MINIMUM OF 3" BEYOND THE OUTSIDE DIAMETER OF THE BASIN WALL.

B.2 BASIN COVER

THE BASIN COVER SHALL BE PROVIDED WITH BASIN ASSEMBLY. COVER SHALL BE ALUMINUM TREADPLATE WITH HINGED ACCESS HATCH, AND SHALL BE BOLTED TO THE BASIN WITH STAINLESS STEEL CAP SCREWS. ZINC PLATED NUTS SHALL BE EMBEDDED IN THE UPPER FLANGE OF THE FIBERGLASS BASIN FOR CORROSION RESISTANCE AND TO PREVENT TURNING.

B.3 PUMP MOUNTING ASSEMBLY

THE GRINDER PUMPS SHALL BE INSTALLED IN THE BASIN WITH A STAINLESS STEEL C-CHANNEL SLIDE RAIL SYSTEM. SLIDE RAIL SYSTEMS UTILIZING RAIL PIPING SHALL NOT BE ACCEPTABLE. THE C-CHANNEL RAIL SYSTEM SHALL BE CONNECTED TO THE BASIN THROUGH THE PIPING MANIFOLD DESCRIBED IN SECTION B.6.

B.4 CHECK VALVE

PROVIDE HEAVY DUTY, PVC, FLAPPER-STYLE OR BALL-CHECK VALVES, USED IN THE PUMP DISCHARGE PIPING TO PREVENT BACKFLOW FROM THE FORCE MAIN. THE VALVE SHALL BE DESIGNED TO OPERATE AT ALL PRESSURES IN THE SEWER SYSTEM CREATED BY THE GRINDER PUMPS.

B.5 LIFTOUT SYSTEM

SHOULD THE PUMP NEED TO BE REMOVED FROM THE BASIN FOR ANY REASON, IT IS DESIGNED TO BE LIFTED OUT THROUGH THE USE OF THE C-CHANNEL SLIDE RAIL SYSTEM. A STAINLESS STEEL LIFTING CHAIN SHALL BE ATTACHED TO THE PUMP.

B.6 DISCHARGE PIPE

SCHEDULE 80 PVC DISCHARGE PIPING SHALL CONNECT TO THE C-CHANNEL RAIL SYSTEM DISCHARGE FITTINGS AND TERMINATE AT A 2" DISCHARGE FLANGE MOUNTED ON THE BASIN AT THE HEIGHT SHOWN IN THE PLANS. THE DISCHARGE FLANGE SHALL HAVE A 2" NPT HUB FOR ATTACHING EXTERNAL DISCHARGE PIPING.

B.7 SHUTOFF VALVE

PVC BALL TYPE SHUT OFF VALVES WITH TEFLON SEATS SHALL BE PROVIDED AS INTEGRAL PART OF THE PIPING ASSEMBLY. IF THE DISCHARGE DEPTH IS MORE THAN 2 FEET FROM THE SURFACE, AN EXTENSION HANDLE SHALL BE SUPPLIED.

B.8 INLET FITTING

A ONE-PIECE INLET FITTING FOR 4" SCHEDULE 80 PVC PIPE SHALL BE SHIPPED LOOSE FOR FIELD INSTALLATION AS REQUIRED.

B.9 GRINDER PUMP

TWO GRINDER PUMPS, EQUAL TO BARNES SGVF SERIES, 2HP, THREE-PHASE, 208 VOLT, 60 HERTZ, SHALL BE PROVIDED WITH A FULLY FUNCTIONAL DUPLEX LEVEL CONTROL PANEL--SEE B.10 BELOW. THE PUMP AND DUPLEX LEVEL CONTROL PANEL SHALL UTILIZE FOUR (4) MERCURY FLOAT, LEVEL-CONTROL SWITCHES FOR AUTOMATIC OPERATION. THE PUMP SHALL BE DESIGNED TO OPERATE ON RAW, UNSCREENED SEWAGE AND SHALL BE CAPABLE OF 25 GPM AND 12' TDH.

B.10 LEVEL CONTROLS & HIGH WATER ALARM

PROVIDE A NEMA 4X FIBERGLASS OR STAINLESS STEEL CONTROL PANEL WITH HIGH WATER ALARM LIGHT, H-O-A SWITCHES, CIRCUIT BREAKERS, MOTOR STARTERS, INCOMING POWER LUGS AND TERMINAL STRIPS. THE PANEL SHALL BE DESIGNED TO OPERATE ON 208 VOLT, THREE-PHASE, 60 HERTZ POWER. FOUR (4) MERCURY FLOAT, LEVEL CONTROL SWITCHES AND A STAINLESS FLOAT SUPPORT BRACKET SHALL ALSO BE REQUIRED.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

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Lakeshore Office Renovation and Canopy
Repair
550 Balboa Dr, Monroe, LA

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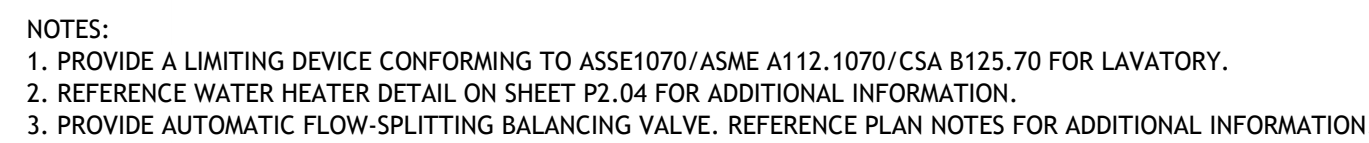
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Date: 2025
Project No.: 25-WM0039
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NOTES:

1. PROVIDE A LIMITING DEVICE CONFORMING TO ASSE1070/ASME A112.1070/CSA B125.70 FOR LAVATORY/SINK.
2. PROVIDE AUTOMATIC FLOW-SPLITTING BALANCING VALVE. REFERENCE PLAN NOTES FOR ADDITIONAL INFORMATION.

5550 Balboa Dr, Monroe, LA

PLUMBING RISERS

PLUMBING SPECIFICATIONS:

PART 1 - GENERAL

1.1 GENERAL CONDITIONS

ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED MECHANICAL CONTRACTORS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE COMPLY WITH THE LATEST EDITIONS OF INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL FIRE CODE (IFC), NFPA 13, NFPA 24, NFPA 25, NFPA 101, ADA STANDARDS, AND ALL APPLICABLE LOCAL AND STATE REGULATIONS.

ALL MATERIALS AND EQUIPMENT SHALL BE NEW, DEFECT-FREE, AND MEET OR EXCEED INDUSTRY STANDARDS.

CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION.

1.2 SUBMITTALS

PROVIDE SHOP DRAWINGS, PRODUCT DATA, AND CUT SHEETS FOR ALL PLUMBING FIXTURES, VALVES, SPECIALTIES, WATER HAMMER ARRESTERS, CLEANOUTS, FIRE SPRINKLER SYSTEM COMPONENTS, AND OTHER REQUIRED MATERIALS FOR ARCHITECT/ENGINEER APPROVAL PRIOR TO ORDERING MATERIALS.

SUBMIT HYDRAULIC CALCULATIONS AND SHOP DRAWINGS FOR FIRE SPRINKLER SYSTEM PER NFPA 13.

FIRE SPRINKLER SYSTEM SHOP DRAWINGS, HYDRAULIC CALCULATIONS, AND PRODUCT DATA SHALL BE PREPARED, SIGNED, AND SEALED BY THE CONTRACTOR IN ACCORDANCE WITH NFPA 13 AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION, AND SUBMITTED TO THE LOUISIANA STATE FIRE MARSHAL FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ENGINEER OF RECORD REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS ONLY.

1.3 GUARANTEE AND WARRANTY

PROVIDE A ONE-YEAR WARRANTY ON ALL MATERIALS AND WORKMANSHIP FROM DATE OF FINAL ACCEPTANCE.

REPAIR OR REPLACE DEFECTIVE MATERIALS AND/OR WORKMANSHIP AT NO COST TO OWNER.

PART 2 - MATERIALS

2.1 DOMESTIC WATER PIPING

COPPER TUBING, TYPE "L" HARD DRAWN WITH WROUGHT COPPER FITTINGS, LEAD-FREE SOLDERED JOINTS, OR APPROVED PRESS FITTINGS.

2.2 SANITARY AND VENT PIPING

PVC SCHEDULE 40 DWV (ASTM D2665), OR CAST-IRON NO-HUB PIPING (CISPI 301).

2.3 NATURAL GAS PIPING

SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS (ASTM A53). PROVIDE CONCEALED SPRINKLER HEADS WHERE REQUIRED BY ARCHITECT.

2.4 FIRE SPRINKLER SYSTEM (NFPA 13)

BLACK STEEL PIPE (SCHEDULE 10 OR 40) WITH GROOVED OR THREADED FITTINGS, OR OTHER MATERIALS SPECIFIED IN NFPA 13 TABLE 6.3.1.

SPRINKLER HEADS: UL-LISTED, AS SPECIFIED BY NFPA 13. PROVIDE GUARDS IN AREAS SUBJECT TO DAMAGE. PROVIDE CONCEALED SPRINKLER HEADS WHERE REQUIRED BY THE ARCHITECT.

PROVIDE INDICATING VALVES, CHECK VALVES, TEST CONNECTIONS, WATERFLOW SWITCHES, AND TAMPER SWITCHES AS REQUIRED BY NFPA 13 AND THE LOCAL AHJ.

SYSTEMS DESIGNED IN ACCORDANCE WITH NFPA 13R OR NFPA 13D ARE NOT PERMITTED.

2.5 VALVES AND FIXTURE CONNECTIONS

DOMESTIC VALVES: FULL-PORT, LEAD-FREE BRONZE BALL VALVES. FIXTURE STOPS: QUARTER-TURN, CHROME-PLATED BRASS.

2.6 CLEANOUTS

PROVIDE CLEANOUTS AS REQUIRED BY IPC.

FLOOR CLEANOUTS SHALL BE CAST-IRON WITH ADJUSTABLE NICKEL-BRONZE COVERS IN FINISHED AREAS; CAST-IRON WITH HEAVY-DUTY IRON COVERS IN UNFINISHED AREAS.

WALL CLEANOUTS SHALL BE CAST-IRON WITH STAINLESS STEEL OR CHROME-PLATED BRASS COVER PLATES IN FINISHED WALLS.

2.7 WATER HAMMER ARRESTERS

SIZED AND SELECTED IN ACCORDANCE WITH PDI WH-201 STANDARDS.

SHALL BE STAINLESS STEEL OR COPPER BODY, BELLOWS OR PISTON-TYPE, PRE-CHARGED, MAINTENANCE-FREE.

MANUFACTURERS: SIOUX CHIEF, JOSAM, WATTS, OR ZURN.

2.8 PIPE INSULATION

ALL COLD WATER PIPING, HOT WATER PIPING, AND HOT WATER RECIRCULATING PIPING ABOVE GRADE SHALL BE INSULATED WITH A MINIMUM OF 1" THICK MOLDED FIBERGLASS INSULATION, PRECISION-MITERED TO FIT THE PIPE. INSULATION SHALL BE FURNISHED WITH A FACTORY-APPLIED WHITE VAPOR BARRIER JACKET WITH FLAP, LABELED "UNIVERSAL" OR EQUAL. PROVIDE MANUFACTURED RIGID FITTING COVERS AT ALL ELBOWS, TEES, AND VALVES. INSULATION INSTALLATION SHALL COMPLY WITH 2021 IECC REQUIREMENTS FOR SERVICE WATER HEATING SYSTEMS. INSULATION SHALL BE EQUAL TO OWENS CORNING SSL II WITH ASJ MAX.

2.9 PIPE IDENTIFICATION

SEMI-RIGID PLASTIC PIPE MARKERS; CLEARLY LABEL ALL PIPING WITH DIRECTIONAL ARROWS AND SERVICE DESIGNATIONS.

FIRE SPRINKLER PIPE LABELING PER NFPA REQUIREMENTS.

2.10 TRAP PRIMERS OR TRAP SEAL DEVICES

PROVIDE AUTOMATIC TRAP PRIMERS OR MECHANICAL TRAP SEAL DEVICES (PROSET OR APPROVED EQUAL) AT FLOOR DRAINS AND FLOOR SINKS PER IPC.

PART 3 - EXECUTION

3.1 INSTALLATION OF GENERAL PIPING

INSTALL PIPING PLUMB, LEVEL, AND TRUE WITH PROPER SUPPORTS AND CLEARANCES. BUSHINGS NOT PERMITTED; USE ONLY REDUCING FITTINGS.

3.2 FIRE SPRINKLER SYSTEM INSTALLATION

INSTALL ACCORDING TO NFPA 13 REQUIREMENTS. MAINTAIN ALL REQUIRED CLEARANCES FROM OBSTRUCTIONS.

3.3 WATER HAMMER ARRESTER INSTALLATION

INSTALL WATER HAMMER ARRESTERS ON HOT AND COLD WATER LINES SERVING QUICK-CLOSING VALVES AND FIXTURES INCLUDING DISHWASHERS, ICE MACHINES, WASHING MACHINES, FLUSH VALVES, SOLENOID VALVES, AND OTHER APPLIANCES PRONE TO WATER HAMMER.

LOCATE ARRESTERS ACCESSIBLY NEAR THE FIXTURE SUPPLY STOPS OR IN ACCESSIBLE CEILING SPACE.

3.4 CLEANOUT INSTALLATION

PROVIDE CLEANOUTS AT BASE OF SANITARY STACKS, AT HORIZONTAL RUNS EVERY 100 FEET, AT DIRECTIONAL CHANGES GREATER THAN 45°, AND AS REQUIRED BY IPC.

CLEANOUT COVERS SHALL BE ACCESSIBLE WITHOUT REMOVAL OF FIXED EQUIPMENT.

3.5 VALVE INSTALLATION

INSTALL VALVES IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED BY ARCHITECTURAL CONDITIONS.

3.6 PIPE INSULATION INSTALLATION

INSTALL NEATLY WITH TIGHTLY SEALED JOINTS; AVOID GAPS AND BREAKS.

SUPPORT INSULATION TO PREVENT COMPRESSION AND DAMAGE.

3.7 IDENTIFICATION AND TAGGING

CLEARLY LABEL VALVES, CONTROLS, AND EQUIPMENT WITH PERMANENT METAL OR PLASTIC TAGS. LABELS SHALL MATCH AS-BUILT DOCUMENTATION.

3.8 AS-BUILT DRAWINGS AND O&M MANUALS

PROVIDE OPERATION & MAINTENANCE MANUALS TO OWNER AT PROJECT COMPLETION. INCLUDE ALL SYSTEM COMPONENTS AND MANUFACTURER'S DOCUMENTATION. MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION, AND PROVIDE THE OWNER WITH ONE SET UPON COMPLETION OF WORK. PROVIDE THE OWNER'S PERSONNEL WITH ON-SITE INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE COMPLETED PLUMBING SYSTEM.

TBA STUDIO
ARCHITECTURE
103 Cypress Street
West Monroe, LA 71291
Tel. 318.340.1550
Fax. 318.998.1315
www.tbastudio.com

TBA

Lakeshore Office Renovation and Canopy
Repair
550 Balboa Dr, Monroe, LA

DRAWING REVISIONS		
No.	Description	Date

DRAWN BY:	Author
CHECKED BY:	Checker
SHEET	
P4.01	
Date:	2025
Project No.:	25-WM0039
File Name:	
DESCRIPTION:	
PLUMBING SPECIFICATIONS	