

# CITY OF TAYLOR ANIMAL SHELTER

25555 NORTHLINE ROAD  
TAYLOR, MI 48180

## - REMODEL & EXPANSION - 100% Complete - City Plan Review



**Sidock Group**  
ARCHITECTS • ENGINEERS • CONSULTANTS

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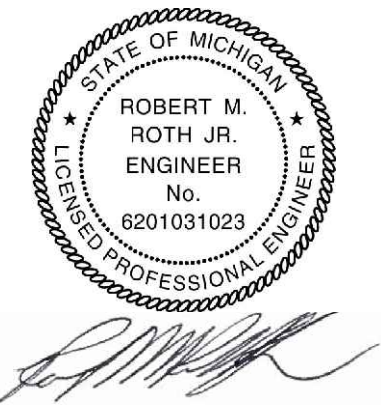


Client:  
**City of Taylor**  
23555 Goddard Rd.  
Taylor, MI 48180

Project:  
**City of Taylor**  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180

Seal:



Date: 09-13-2023 Issued For: 25% Complete Review  
10-18-2023 50% Complete Review  
12-21-2023 Owner Review  
01-17-2024 Permit Review

Drawn: WDJ/JNC  
Checked: WD  
Approved: MR

Sheet Title:  
**COVER SHEET &  
DRAWING INDEX**

Project Number: 22712.A

Sheet Number: **CS-001**

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PROJECT DESCRIPTION	
THIS PROJECT ENTAILS THE RENOVATION AND EXPANSION OF THE CITY OF TAYLOR ANIMAL SHELTER. THE CURRENT SHELTER OCCUPIES 5,200 SF OF THE EXISTING BUILDING. THIS EXISTING 5,200 SF WILL BE RENOVATED AND A NEW 9,020 SF BUILDING ADDITION WILL BE CONSTRUCTED TO EXPAND THE ANIMAL SHELTER TO 14,220 SF.	
SITE IMPROVEMENTS/ALTERATIONS WILL INCLUDE NEW WALKWAYS, DOG RUNS, AND LANDSCAPING.	

ZONING INFORMATION	
<b>CURRENT ZONING:</b>	I-1 LIGHT INDUSTRIAL DISTRICT
<b>PROPOSED ZONING:</b>	I-1 LIGHT INDUSTRIAL DISTRICT
<b>SETBACKS:</b>	50' FRONT YARD SETBACK (EXISTING TO REMAIN AS-IS) 10' SIDE YARD (EXISTING TO REMAIN AS-IS) 10' REAR YARD (EXISTING TO REMAIN AS-IS)
<b>EXISTING PARKING:</b>	117 PARKING SPACES
<b>REQUIRED PARKING:</b>	TOTAL = 75 SPACES (SEE BREAKDOWN BELOW)
<b>ANIMAL SHELTER:</b>	1 PER 400SF USEABLE PLUS 2 PER EMPLOYEE 14,220SF X 80% = 11,376 / 400SF = 28 SPACES 12 EMPLOYEES = 2 = 24
<b>FIRING RANGE:</b>	1.2 SPACES PER 300SF USEABLE 5,000SF X 80% = 4,000 / 300 = 13.3 X 1.2 = 16 SPACES (PREVIOUSLY APPROVED IN 1994)
<b>MAINTENANCE AREA:</b>	1 PER 1500SF GROSS 10,260SF / 1500 = 7 SPACES (PREVIOUSLY APPROVED IN 1994)
<b>LANDSCAPING:</b>	WILL COMPLY REFER TO LANDSCAPING PLAN L-100

PROJECT DATA	
PROPERTY ADDRESS:	25555 NORTHLINE RD
PROPERTY OWNER:	CITY OF TAYLOR
PROPERTY USER/TENANT:	CITY OF TAYLOR
CURRENT BUILDING SIZE:	20,460 SF (ANIMAL SHELTER PORTION 5,200 SF)
PROPOSED BUILDING SIZE:	29,480 SF (ANIMAL SHELTER PORTION 14,220 SF)
CURRENT USE:	ANIMAL SHELTER, FIRING RANGE, MAINTENANCE
PROPOSED USE:	ANIMAL SHELTER, FIRING RANGE, MAINTENANCE

CODE SUMMARY	
<b>CODE:</b>	2015 MICHIGAN BUILDING CODE 2015 MICHIGAN PLUMBING CODE 2015 MICHIGAN MECHANICAL CODE 2015 MICHIGAN ELECTRICAL CODE BARRIER FREE ICC/ANSI 117.1 (2009)
<b>USE GROUP (MIXED):</b>	S-1 (STORAGE WAREHOUSE) B (ANIMAL SHELTER AND FIRING RANGE)
<b>CONSTRUCTION TYPE:</b>	2B
<b>ALLOWABLE AREA:</b>	S-1 = 70,000 SF / B = 92,000 SF
<b>ALLOWABLE HEIGHT:</b>	S-1 = 3 STORIES / B = 4 STORIES
<b>OCCUPANT LOAD:</b>	WAREHOUSES = 1 PER 500 SF 9,665 SF / 500 = 19 OCCUPANTS BUSINESS = 1 PER 100 SF 665 SF (FIRING RANGE, FIRING AREA) / 100 = 7 OCCUPANTS BUSINESS = 1 PER 100 SF 5,200 SF (ANIMAL SHELTER, HUMAN AREA) / 100 = 52 OCCUPANTS
<b>OCCUPANCY SEPARATION:</b>	NO SEPARATION REQUIRED BETWEEN 'B' AND 'S-1' (MBC TABLE 508.4)
<b>FIRE SUPPRESSION:</b>	FULLY SUPPRESSED
<b>EGRESS TRAVEL:</b>	USE S-1: 250 FT USE B: 300 FT COMPLY: SEE LIFE SAFETY DRAWING LS-100
<b>PLUMBING FIXTURES:</b>	S-1 (MAINTENANCE AREA): EXISTING FIXTURES TO REMAIN AS-IS. B (FIRING RANGE): EXISTING FIXTURES TO REMAIN AS-IS. B (ANIMAL SHELTER): BASED ON THE SF OF HUMAN OCCUPIED SPACES OF 4800 SF. TOILETS 1 per 100 5 REQUIRED 8 PROVIDED LAVATORIES 1 per 100 5 REQUIRED 8 PROVIDED SERVICE SINK 1 1 REQUIRED 5 PROVIDED DRINKING FTN. 1 1 REQUIRED NONE PROVIDED

CONSTRUCTION PHASING	
THE GENERAL CONTRACTOR SHALL CONSTRUCT THIS PROJECT IN TWO PRIMARY PHASES. PHASE 1 SHALL INCLUDE THE CONSTRUCTION OF THE BUILDING ADDITION. PHASE 2 SHALL INCLUDE THE RENOVATION OF THE EXISTING ANIMAL SHELTER FOOTPRINT. SITE WORK CAN BE PERFORMED WITHIN EITHER OR BOTH PHASES AS DESIRED BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL ACCOUNT FOR THIS 2 PHASED CONSTRUCTION APPROACH WITHIN THEIR BID.	

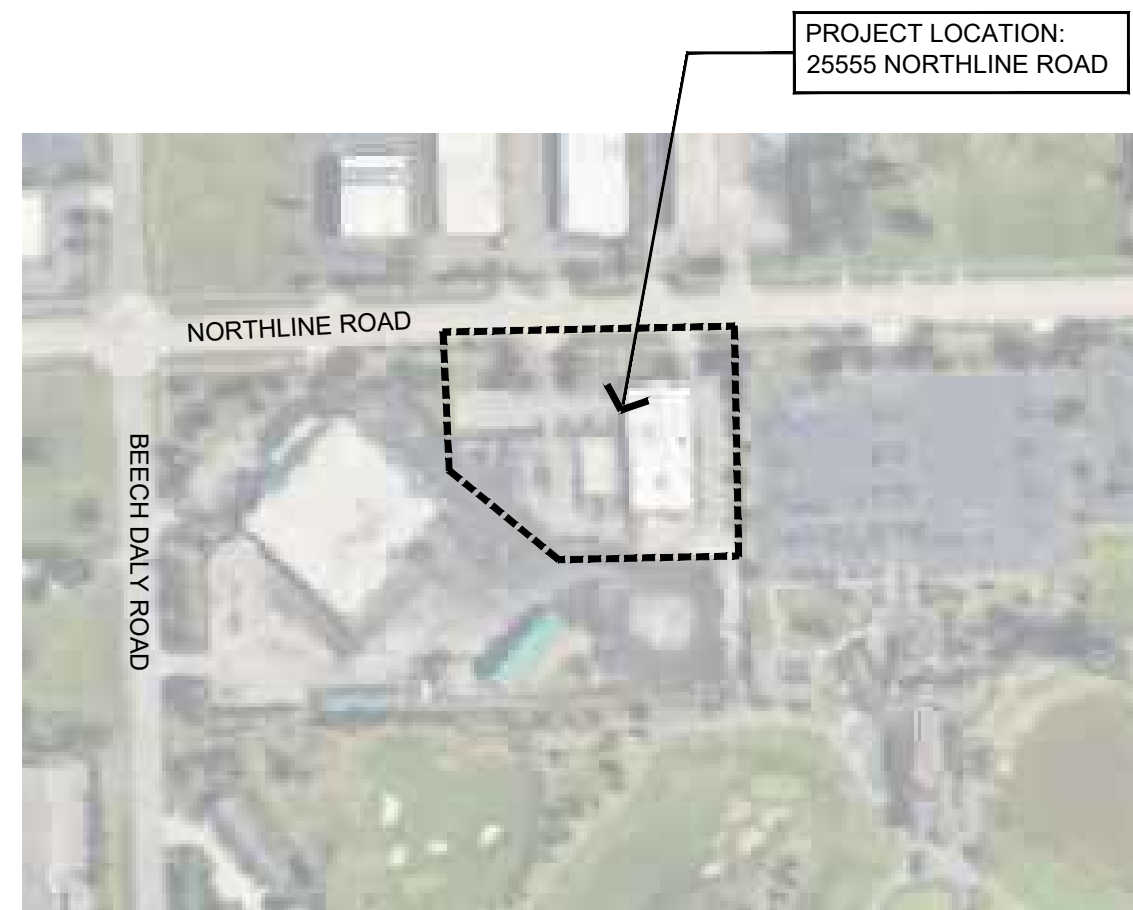
BID ALTERNATES	
<b>BID ALTERNATE 1</b>	SKYLIGHTS: GC SHALL PROVIDE A DEDUCTIVE COST ALTERNATE FOR THE ELIMINATION OF THE SKYLIGHTS WITHIN THE GUN RANGE CORRIDOR #158 AND HALLWAY #120. THIS COST SHALL INCLUDE THE SKYLIGHTS, ROOF CURBS, SUPPORT AND SUPPORT STEEL.

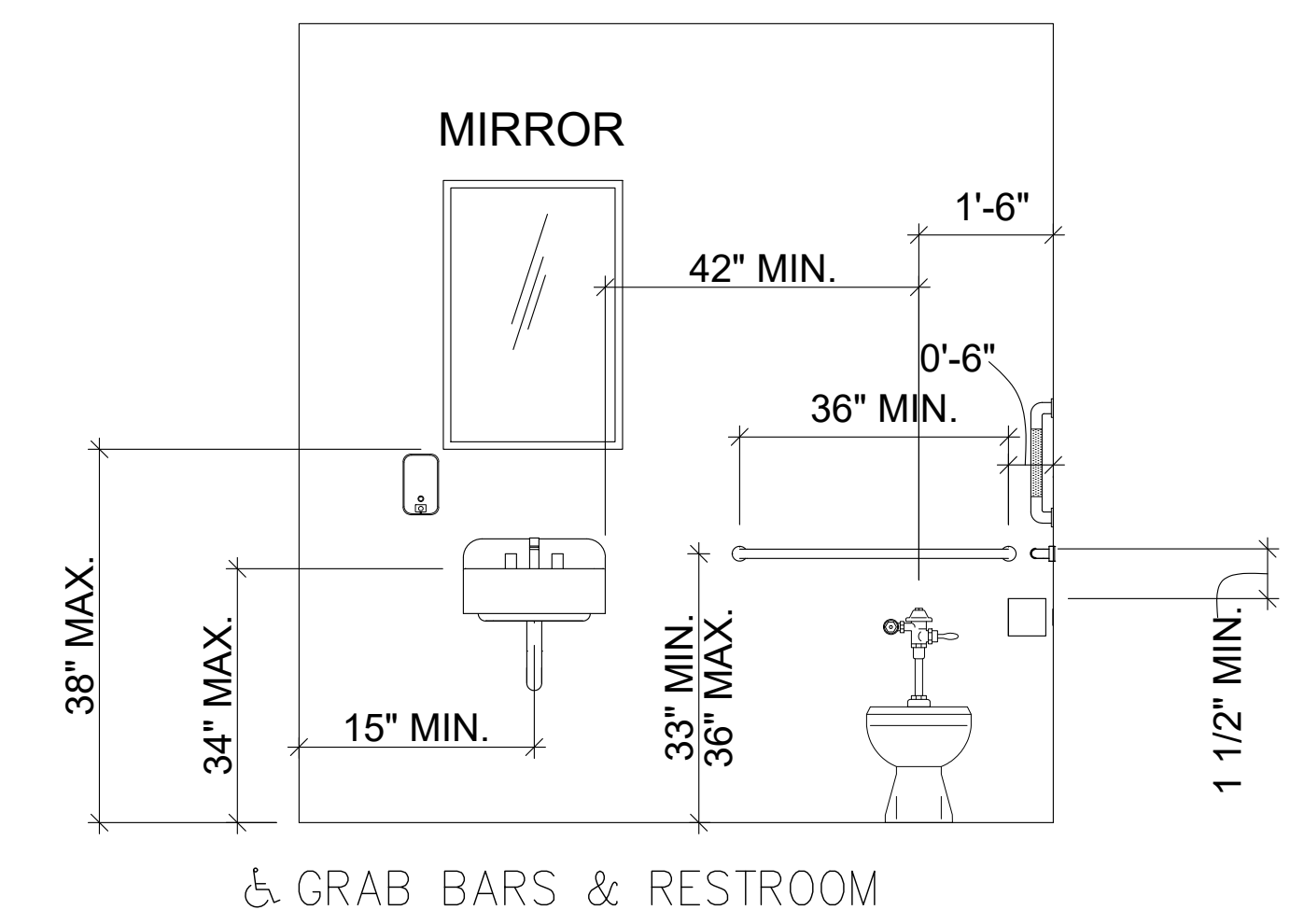
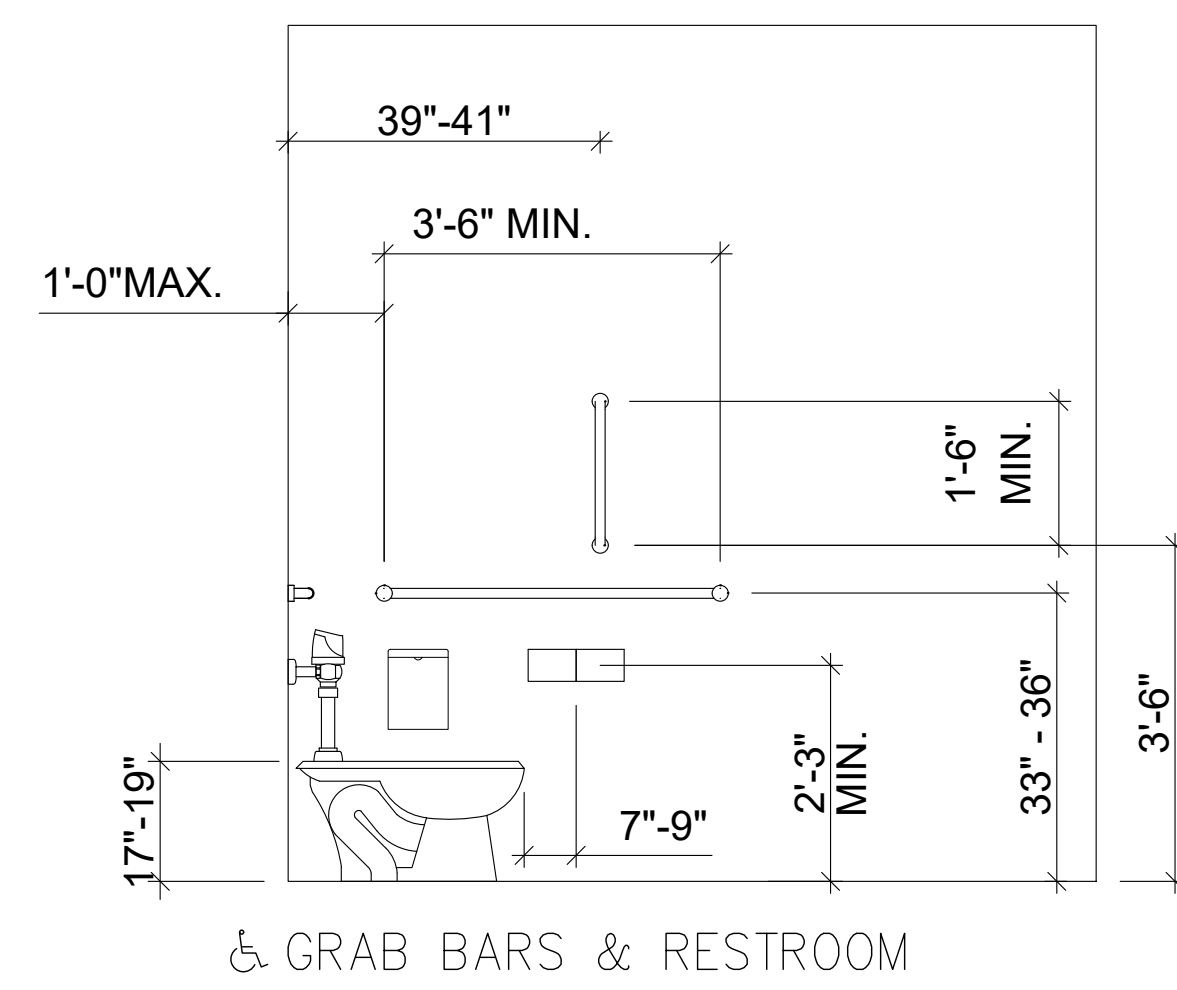
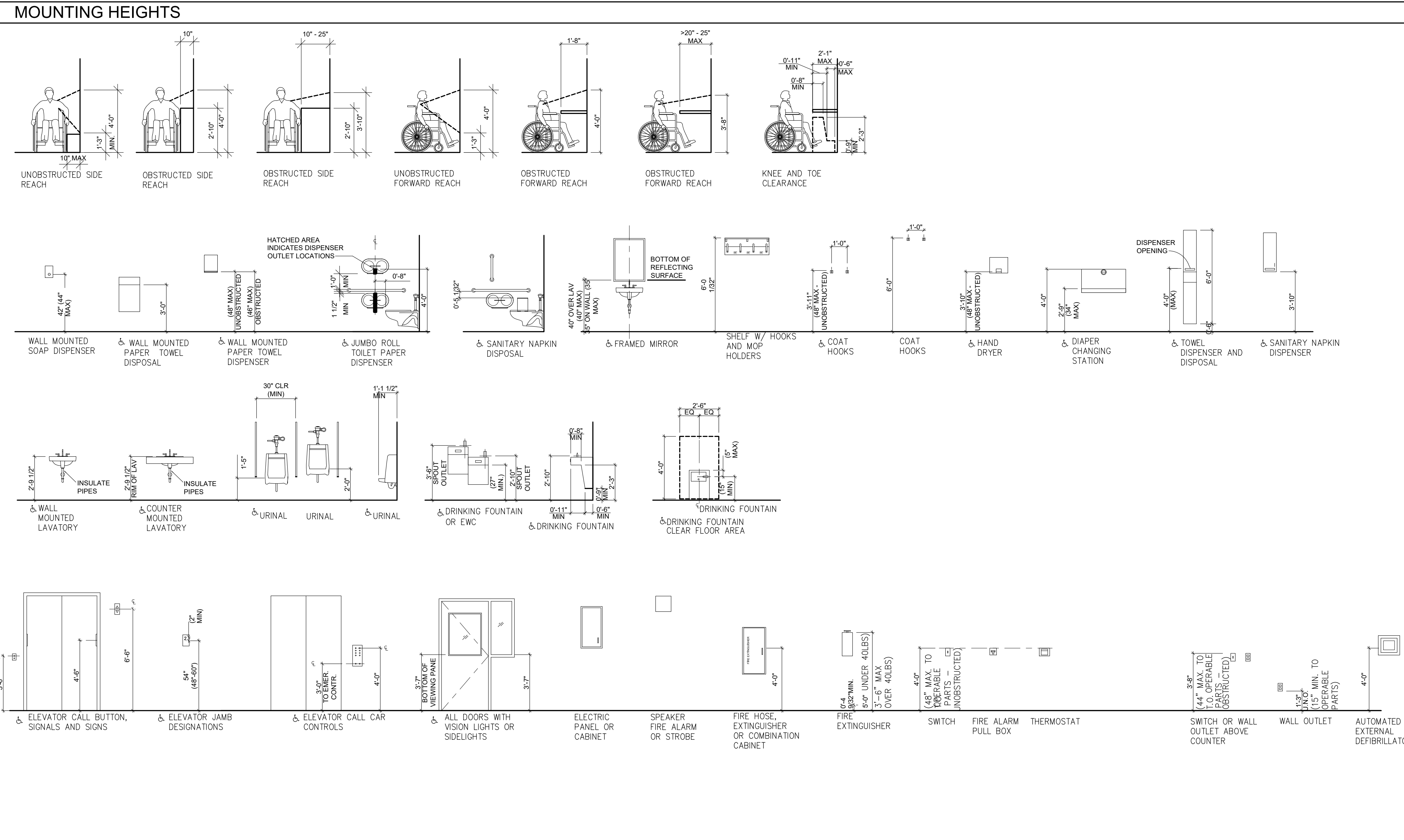
GENERAL NOTES	
1.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE, AND COUNTY CODES / ORDINANCES AND BUILDING REGULATIONS OF THE CITY OF FERRDALE / OSHA / AND THE INSTRUCTIONS OF INSPECTING AUTHORITIES.
2.	THE GENERAL CONTRACTOR (GC) SHALL VISIT THE PREMISES AND SHALL BECOME THOROUGHLY FAMILIAR WITH THE CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
3.	THE OWNER SHALL CONFIRM THE GENERAL CONTRACTORS (GC) SCOPE OF WORK.
4.	THE GC SHALL PROMPTLY NOTIFY THE OWNER AND ARCHITECT OF ANY AMBIGUITY, INCONSISTENCY OR ERROR WHICH HE MAY DISCOVER UPON EXAMINATION OF THE DOCUMENTS OR OF THE SITE.
5.	GC SHALL INCLUDE COSTS OF ALL PERMITS AND RELATED FEES.
6.	ALL PRODUCT/MATERIAL SUBSTITUTIONS SHALL BE APPROVED BY ARCHITECT/OWNER.
7.	DO NOT SCALE DRAWINGS, USE ONLY THE DIMENSIONS PROVIDED.
8.	FIELD VERIFY ALL DIMENSIONS. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS. MATERIAL QUANTITIES AND EXTENT OF THE CONSTRUCTION WORK SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PERFORM THE WORK TO MEET FIELD CONDITIONS ENCOUNTERED.
9.	GC SHALL BE RESPONSIBLE FOR SAFETY ON THIS PROJECT, INCLUDING ALL NECESSARY SIGNS, BARRIERS AND SUPERVISION.
10.	GC SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE & PROPER COMPLETION OF THE PROJECT AS INDICATED ON THE DRAWINGS & AS SPECIFIED HEREIN.
11.	DURING CONSTRUCTION, GC SHALL MAINTAIN EXISTING MEANS OF EGRESS AND PASSAGEWAYS CLEAR OF OBSTRUCTIONS. TAKE ALL PRECAUTIONS NECESSARY TO INSURE THE SAFETY OF THE GENERAL PUBLIC AND WORKERS.
12.	GC SHALL BE RESPONSIBLE TO PROTECT ADJACENT PRIVATE AND PUBLIC PROPERTY FROM DAMAGE DURING CONSTRUCTION.
13.	COORDINATION AND SEQUENCE OF CONSTRUCTION IS THE RESPONSIBILITY OF THE GC.
14.	THE LOCATION OF ALL UTILITIES INDICATED HEREIN ARE APPROXIMATE ONLY AND WERE LOCATED FROM SOURCES BELIEVED TO BE RELIABLE, BUT NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO LOCATION. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATION AS TO THE EXTENT OF THESE OR OTHER UTILITIES, AND SHALL BE RESPONSIBLE FOR PROTECTION AND RESTORATION OF SAME IF DAMAGED AS A RESULT OF HIS OPERATIONS.
15.	OWNER SHALL HAVE FIRST CLAIM TO ALL SALVAGEABLE ITEMS.
16.	GC SHALL CONSULT WITH OWNER REGARDING STORAGE OF ON SITE MATERIALS AND ACCESS TO SITE.
17.	ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT.
18.	ALL EXISTING CONSTRUCTION, EQUIPMENT AND FINISHES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.
19.	GC SHALL PERFORM ALL DEMOLITION REQUIRED FOR INSTALLATION OF NEW ITEMS. FIELD VERIFY ITEMS TO BE DEMOLISHED. ANY DISCREPANCIES OR QUESTIONABLE ITEMS SHOULD BE BROUGHT TO THE OWNER/ARCHITECT'S ATTENTION. GC SHALL REMOVE ALL DEBRIS FROM SITE AND LEGALLY DISPOSE OF.
20.	GC SHALL PROVIDE A WRITTEN GUARANTEE THAT WILL BE MADE GOOD AT GC'S OWN EXPENSE FOR ANY DEFICIENCIES IN MATERIAL AND/OR WORKMANSHIP WHICH MAY DEVELOP WITHIN (1) ONE YEAR FROM FINAL ACCEPTANCE. FURTHER, THIS GC SHALL OBTAIN WRITTEN GUARANTEES FROM ALL MANUFACTURERS STATING ON WHAT OPERATING CONDITIONS & PERFORMANCE CAPACITIES EACH EQUIPMENT PIECE GUARANTEE IS BASED.

BID ALLOWNACES	
<b>BID ALLOWANCE 1</b>	CARPORT: GC SHALL INCLUDE AN ADD ALLOWANCE OF \$25,000 FOR A OPEN CARPORT WITHIN THE EAST PARKING LOT.
<b>BID ALLOWANCE 2</b>	DOG RUN STORAGE BINS: GC SHALL INCLUDE AN ADD ALLOWANCE OF \$1,600 FOR 2 STORAGE BINS WITHIN THE OUTDOOR DOG RUN AREA.
<b>BID ALLOWANCE 3</b>	EXTERIOR STORAGE SHED: GC SHALL INCLUDE AN ADD ALLOWANCE OF \$12,000 FOR STORAGE SHED WITHIN THE EAST PARKING LOT.
<b>BID ALLOWANCE 4</b>	EXTERIOR SIGNS: GC SHALL INCLUDE AN ADD ALLOWANCE OF \$14,000 FOR EXTERIOR SIGNS.
<b>BID ALLOWANCE 5</b>	APPLIANCES: GC SHALL INCLUDE AN ADD ALLOWANCE OF \$12,000 FOR APPLIANCES.
<b>BID ALLOWANCE 5</b>	ARTIFICIAL PLANTS: GC SHALL INCLUDE AN ADD ALLOWANCE OF \$2,500 FOR INTERIOR ARTIFICIAL PLANTS.
<b>BID ALLOWANCE 6</b>	HAZARDOUS MATERIALS TESTING: GC SHALL INCLUDE AN ADD ALLOWANCE OF \$4,000 FOR TESTING OF SUSPECT MATERIALS SUCH AS ASBESTOS.
<b>BID ALLOWANCE 7</b>	ACOUSTIC WALL PANELS: GC SHALL INCLUDE AN ADD ALLOWANCE OF \$7,500 FOR WALL MOUNTED ACOUSTIC PANELS WITHIN THE CANINE KENNEL AREAS.

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#### ABBREVIATION LEGEND

<b>A</b>	AT ACUSTICAL CEILING TILE	<b>H</b>	HSS HOLLOW STRUCTURAL STEEL	<b>P</b>	PEMB PRE-ENGINEERED METAL BUILDING PERIMETER	<b>W</b>	W/ WITH
<b>ACT</b>	ACUSTICAL CEILING TILE ABOVE FINISH FLOOR	<b>HP</b>	HIGH POINT	<b>PERM</b>	PERIMETER	<b>WB</b>	WALL BASE
<b>ALUM.</b>	ALUMINUM	<b>HDW</b>	HARDWARE	<b>PL</b>	PLATE	<b>WG</b>	WIRE GLASS
<b>B</b>		<b>HM</b>	HOLLOW METAL HORIZONTAL HEIGHT	<b>PLAM</b>	PLASTIC LAMINATE	<b>WWF</b>	WELDED WIRE FABRIC
<b>BF</b>	BARRIER FREE	<b>HT</b>	HORIZONTAL HEIGHT	<b>PRE-FIN</b>	PRE FINISHED		
<b>C</b>		<b>ID</b>	INSIDE DIAMETER	<b>PSF</b>	POUNDS PER SQUARE FOOT	<b>X</b>	
<b>CL</b>	CENTER LINE	<b>IN</b>	INCHES	<b>PSI</b>	POUNDS PER SQUARE INCH	<b>Y</b>	
<b>CLG</b>	CEILING	<b>IN</b>	INCHES	<b>PT</b>	PAINT	<b>Z</b>	
<b>CMU</b>	CONCRETE MASONRY UNIT	<b>INSUL</b>	INSULATED	<b>Q</b>			
<b>COL</b>	COLUMN	<b>J</b>		<b>R</b>			
<b>CONC</b>	CONCRETE	<b>K</b>		<b>RD</b>	RADIUS		
<b>CONT</b>	CONTINUOUS	<b>L</b>		<b>REIN</b>	ROOF DRAIN REINFORCING		
<b>CPT</b>	CARPET	<b>LAV</b>	LAVATORY	<b>RO</b>	ROUGH OPENING REFERENCE		
<b>CJ</b>	CERAMIC TILE CONTROL/CONSTRUCTION JOINT	<b>LF</b>	LINEAR FOOT/FEET	<b>REF</b>	REFERENCE		
<b>DEMO</b>	DEMOLITION	<b>LH</b>	LONG LEG HORIZONTAL	<b>S</b>			
<b>DIA</b>	DIAMETER	<b>LLV</b>	LONG LEG VERTICAL	<b>SCHED</b>	SCHEDULE		
<b>DF</b>	DRINKING FOUNTAIN	<b>LP</b>	LONG LEG VERTICAL LOW POINT	<b>SOH</b>	SECTIONAL OVERHEAD DOOR		
<b>DN</b>	DOWN	<b>M</b>		<b>SHT</b>	SHEET		
<b>DO</b>	DOOR OPENING	<b>MAX</b>	MAXIMUM	<b>STL</b>	STEEL		
<b>DS</b>	DOWN SPOUT	<b>MISC</b>	MISCELLANEOUS	<b>T</b>			
<b>E</b>		<b>MEZZ</b>	MEZZANINE	<b>TEMP</b>	TEMPORARY		
<b>ELEV</b>	ELEVATION	<b>MIN</b>	MINIMUM	<b>THRESH</b>	THRESHOLD		
<b>EQ</b>	EQUAL	<b>MO</b>	MASONRY OPENING	<b>TOS</b>	TOP OF STEEL		
<b>EWV</b>	ELECTRIC WATER COOLER EXPANSION	<b>N</b>		<b>TYP</b>	TYPICAL		
<b>F</b>		<b>NIC</b>	NOT IN CONTRACT	<b>U</b>			
<b>FD</b>	FLOOR DRAIN	<b>N/A</b>	NOT APPLICABLE	<b>UNO</b>	UNLESS NOTED OTHERWISE		
<b>FIN</b>	FINISH/FINISHED	<b>NO/#</b>	NUMBER NOT TO SCALE	<b>V</b>			
<b>FEC</b>	FIRE EXTINGUISHER	<b>NTS</b>	NOT TO SCALE	<b>VCT</b>	VINYL COMPOSITION TILE		
<b>FLR</b>	FLOOR	<b>O</b>		<b>VERT</b>	VERTICAL		
<b>FLR</b>	FLOOR	<b>OC</b>	ON CENTER				
<b>FND</b>	FOUNDATION	<b>OD</b>	OUTSIDE DIAMETER				
<b>FRP</b>	FIBERGLASS REINFORCED PANEL(S)	<b>OHC</b>	OVERHEAD COILING DOOR				
<b>FT</b>	FOOT/FEET						
<b>G</b>							
<b>GALV</b>	GALVANIZE (D)						
<b>GYP BD</b>	GYPSUM BOARD						
<b>GA</b>	GAUGE						

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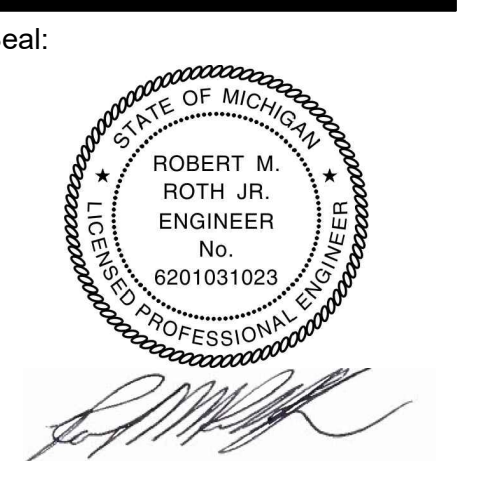
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Project Number: **22712.A**

Sheet Number: **CS-003**

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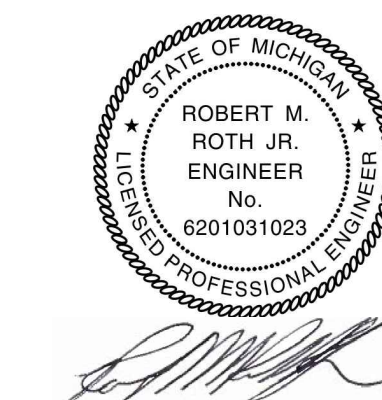
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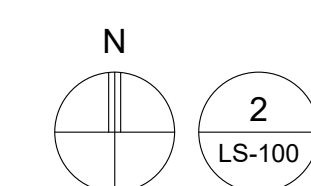
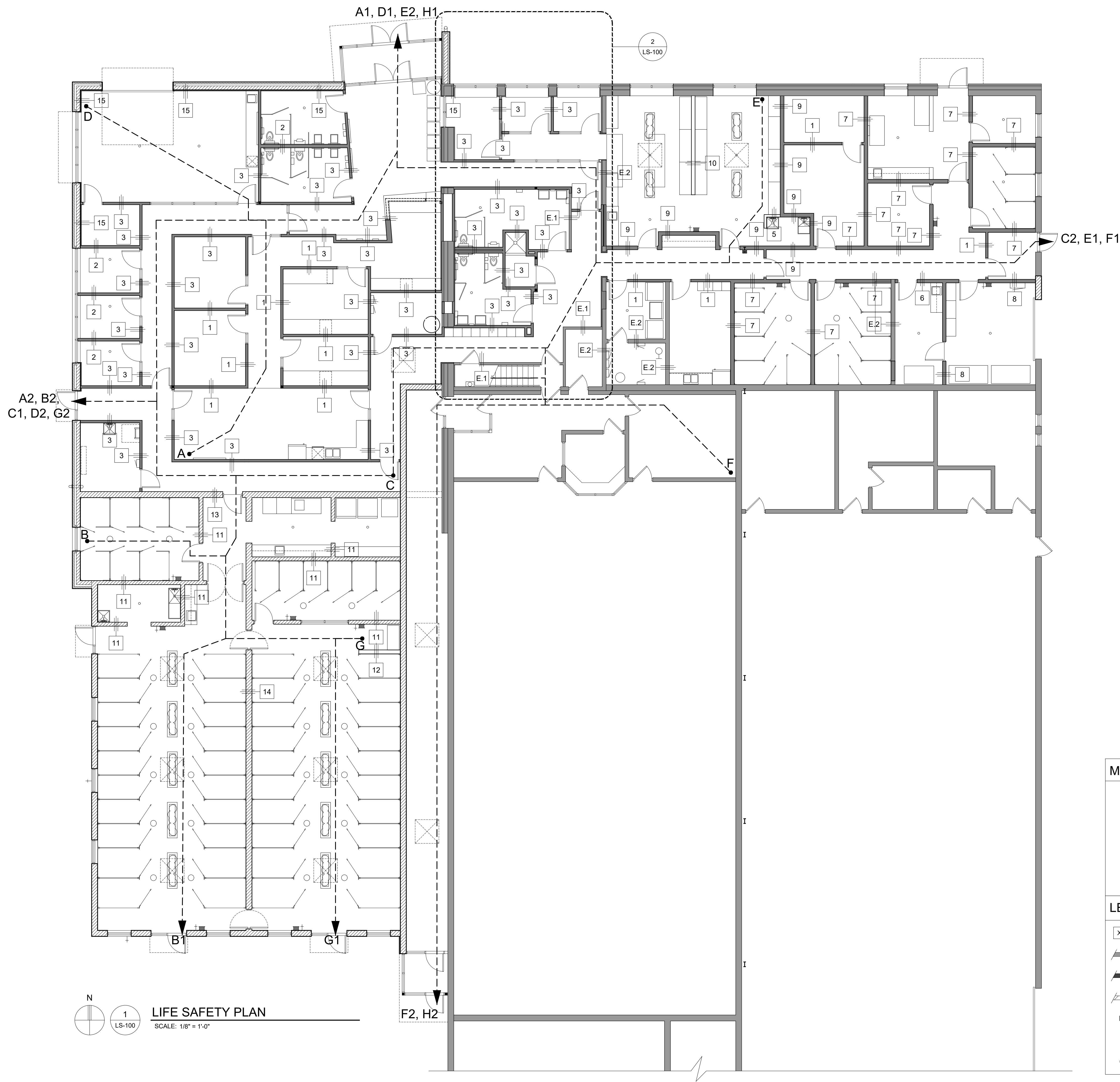
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Sheet Title:  
**LIFE SAFETY PLAN**

Project Number: 22712.A

Sheet Number: **LS-100**

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**SECOND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**MAX. TRAVEL DISTANCE**

A1 = 93'-6 1/2"	A2 = 108'-4"
B1 = 80'-0"	B2 = 94'-7"
C1 = 66'-8"	C2 = 141'-0"
D1 = 86'-6"	D2 = 95'-4.5"
E1 = 84'-0"	E2 = 124'-0"
F1 = 139'-5 1/2"	F2 = 155'-3"
G1 = 54'-6"	G2 = 91'-11"
H1 = 160'-9 1/2"	H2 = 190'-7 1/2"

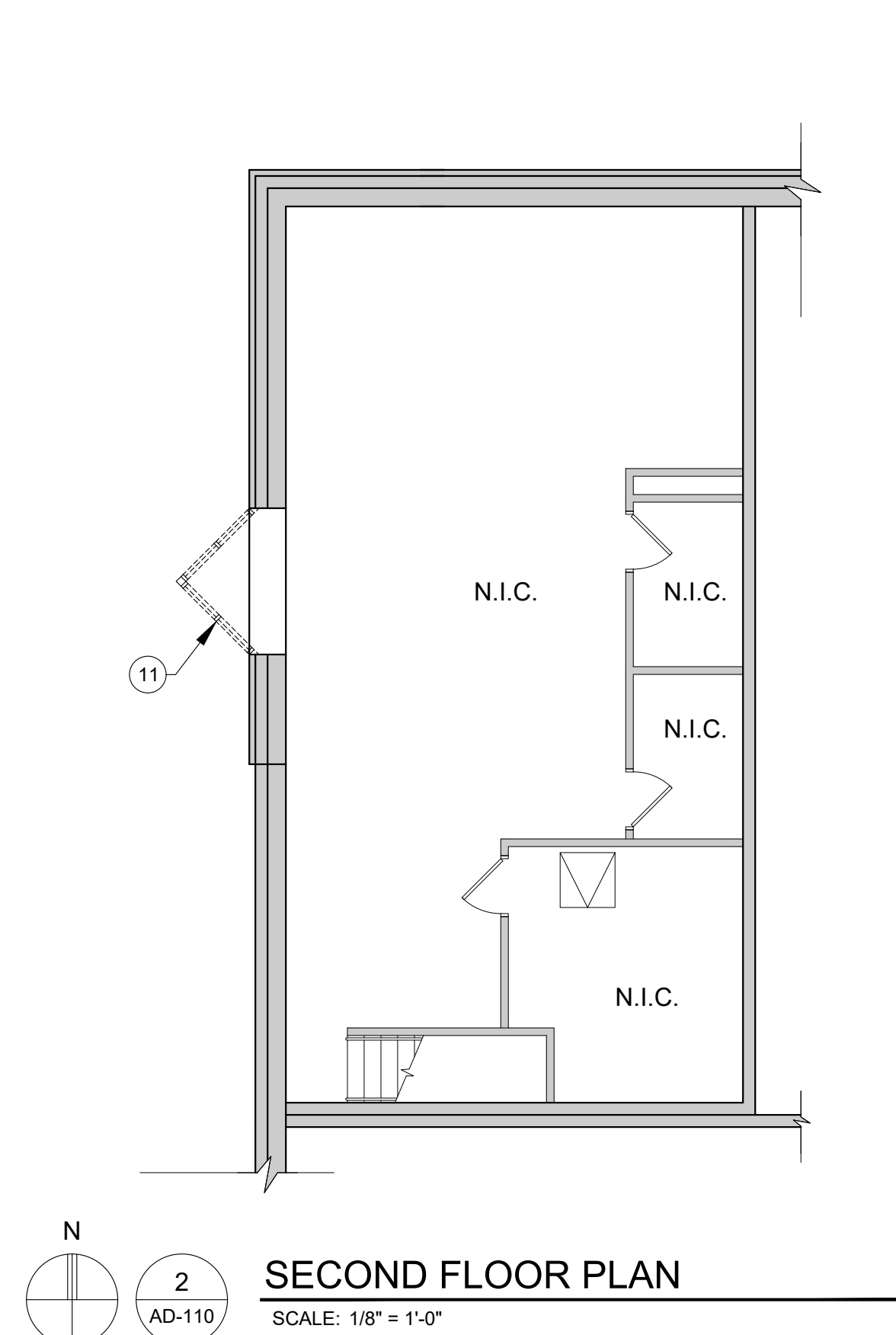
**LEGEND:**

	WALL TYPE SYMBOL (SEE WALL TYPES LIST ON THIS SHEET LS-100)
	EXISTING WALL
	NEW PARTITION WALL
	NEW MASONRY WALL
	NOT IN CONTRACT NO WORK IN THIS ROOM
	NEW DOOR
	EXISTING DOOR

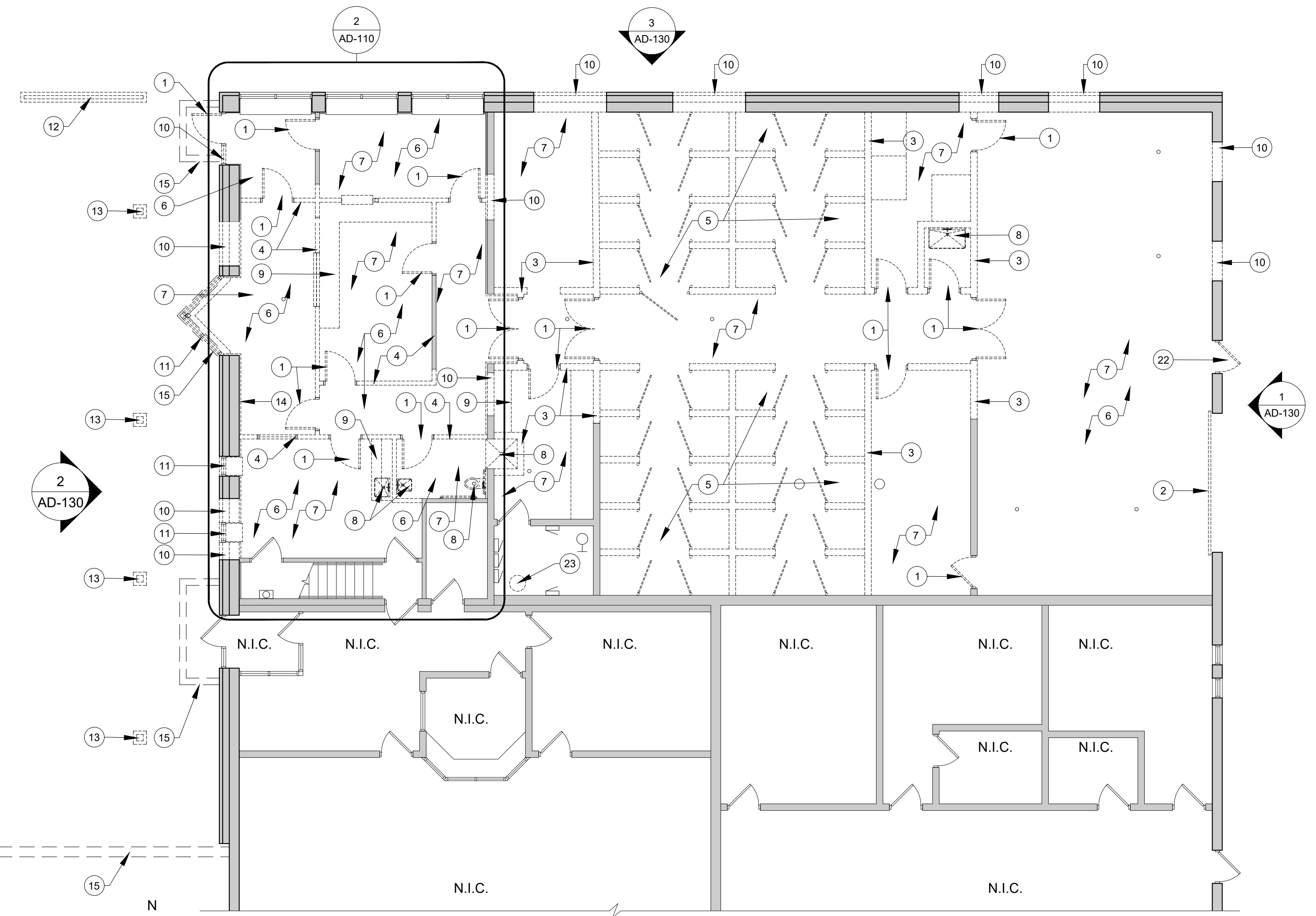
**WALL TYPES**

PROPOSED WALLS	
<b>3-5/8" STUD WALLS</b>	
1	3-5/8" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO 8" ABOVE FINISH CEILING W/ (1) LAYER 5/8" GYP. BD. EA SIDE W/ SOUND ATTENUATING UNFACED BATT INSULATION WITHIN CAVITIES (FULL HEIGHT).
2	3-5/8" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO 8" ABOVE FINISH CEILING W/ (1) LAYER 5/8" GYP. BD. EA SIDE W/ 1/2" RESILIENT CHANNELS BENEATH GYP. BD. ONE SIDE W/ SOUND ATTENUATING UNFACED BATT INSULATION WITHIN CAVITIES (FULL HEIGHT).
3	3-5/8" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO UNDERSIDE OF DECK ABOVE W/ (1) LAYER 5/8" GYP. BD. EA SIDE W/ SOUND ATTENUATING UNFACED BATT INSULATION WITHIN CAVITIES (FULL HEIGHT).
4	3-5/8" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO UNDERSIDE OF DECK ABOVE W/ (1) LAYER 5/8" GYP. BD. EA SIDE W/ 1/2" RESILIENT CHANNELS BENEATH GYP. BD. ONE SIDE W/ SOUND ATTENUATING UNFACED BATT INSULATION WITHIN CAVITIES (FULL HEIGHT).
5	3-5/8" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO 7'-4" ABOVE FIN. FLR. W/ (1) LAYER 5/8" GYP. BD. EA SIDE. UNFACED BATT INSULATION WITHIN
<b>6" STUD WALLS</b>	
6	6" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO 8" ABOVE FINISH CEILING W/ (1) LAYER 5/8" GYP. BD. EA SIDE W/ SOUND ATTENUATING UNFACED BATT INSULATION WITHIN CAVITIES (FULL HEIGHT).
7	6" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO 8" ABOVE FINISH CEILING W/ (1) LAYER 5/8" GYP. BD. EA SIDE W/ 1/2" RESILIENT CHANNELS BENEATH GYP. BD. ONE SIDE W/ SOUND ATTENUATING UNFACED BATT INSULATION WITHIN CAVITIES (FULL HEIGHT).
8	6" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO UNDERSIDE OF DECK ABOVE W/ (1) LAYER 5/8" GYP. BD. EA SIDE W/ SOUND ATTENUATING UNFACED BATT INSULATION WITHIN CAVITIES (FULL HEIGHT).
9	6" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO UNDERSIDE OF DECK ABOVE W/ (1) LAYER 5/8" GYP. BD. EA SIDE W/ 1/2" RESILIENT CHANNELS BENEATH GYP. BD. ONE SIDE W/ SOUND ATTENUATING UNFACED BATT INSULATION WITHIN CAVITIES (FULL HEIGHT).
10	6" MTL. STUDS @ 16" O.C. FROM FIN. FLR. TO 7'-4" ABOVE FIN. FLR. W/ (1) LAYER 5/8" GYP. BD. EA SIDE. UNFACED BATT INSULATION WITHIN
<b>CMU WALLS</b>	
11	8" CMU WALL TO 8" ABOVE FINISH CEILING W/ PAINTED FINISH BOTH SIDES. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS.
12	8" CMU WALL FROM FIN. FLR. TO 7'-4" ABOVE FIN. FLR. W/ PAINTED FINISH BOTH SIDES. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS.
13	12" CMU WALL TO HEIGHT OF PARAPET WALL W/ PAINTED FINISH BOTH SIDES AT INTERIOR. REFER TO STRUCTURAL PLANS FOR REINFORCING REQUIREMENTS. REFER TO WALL SECTIONS FOR ANY EXTERIOR FINISHES.
14	12" CMU WALL FROM FIN. FLR. TO UNDERSIDE OF DECK ABOVE W/ PAINTED FINISH BOTH SIDES AT INTERIOR. REFER TO STRUCTURAL PLANS FOR REINFORCING REQUIREMENTS. REFER TO WALL SECTIONS FOR ANY EXTERIOR FINISHES.
<b>INTERIOR FURRING</b>	
15	2" MTL. FURRING STUDS AT 16" O.C. ON FACE OF EXTERIOR WALL TO 8" ABOVE FINISH CEILING W/ (1) LAYER 5/8" GYP. BD. ON INTERIOR W/ 2" RIGID INSULATION WITHIN STUD CAVITIES.
<b>EXISTING WALLS</b>	
E.1	EXISTING 3-1/2" STL. STUDS @ 16" O.C. FROM FIN. FLR. TO UNDERSIDE OF DECK ABOVE W/ (1) LAYER 5/8" GYP. BD. EA SIDE
E.2	EXISTING 8" CMU WALL FROM FIN. FLR. TO UNDERSIDE OF DECK ABOVE

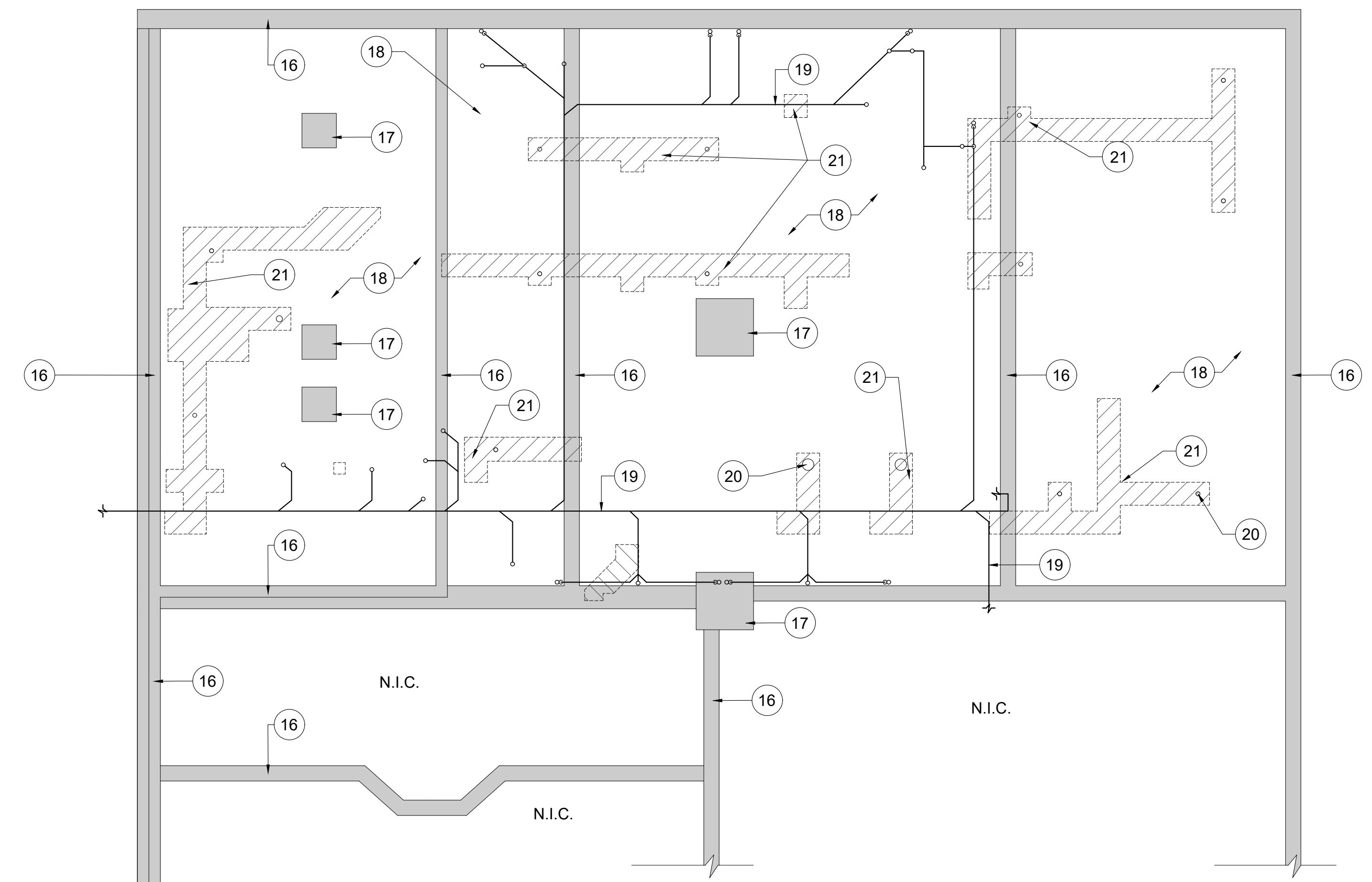
**LIFE SAFETY PLAN**  
SCALE: 1/8" = 1'-0"



**SECOND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



**FIRST FLOOR DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"



**FLOOR SLAB DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"

**GENERAL DEMOLITION NOTES:**

- A. COORDINATE ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION DRAWINGS ACCORDINGLY.
- B. THESE DEMOLITION NOTES AND PLANS DO NOT FULLY REPRESENT ALL DEMOLITION WORK REQUIRED TO INSTALL NEW WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS, BUT ARE INTENDED TO SERVE AS GENERAL DEMOLITION GUIDELINES. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATIONS OF INCIDENTAL DEMOLITION WORK NOT INDICATED ON THIS PLAN.
- C. THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS TO BE SALVAGED AND RELOCATED, INCLUDING SAFE STORAGE OF SAME. UPON DEMOLITION, THE OWNER SHALL RETAIN THOSE ITEMS DEEMED SALVAGEABLE. ITEMS NOT RETAINED SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL LEGALLY DISPOSE OF SAME.
- D. WHERE ITEMS ARE REMOVED, PATCH SURFACES TO MATCH ADJACENT SURFACES OR NEW FINISHES WHERE SCHEDULED. PATCHING OF NEW OR EXISTING FINISHES SHALL EXTEND TO NEAREST NATURAL BREAK OR TERMINATION FOR A CLEAN UNBLEMISHED APPEARANCE AT THE END OF CONSTRUCTION.
- E. DISCONNECT AND REMOVE ALL ITEMS AS INDICATED OR AS OTHERWISE REQUIRED TO CLEAR AREA FOR NEW WORK.
- F. CONTRACTOR IS RESPONSIBLE FOR SAFETY ON THIS PROJECT (PROVIDE BARRICADES, WARNING SIGNS, ETC.).
- G. PROVIDE ALL DUST CURTAINS AND TEMPORARY PARTITIONS AS REQUIRED TO PROTECT EXISTING BUILDING DURING CONSTRUCTION.
- H. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO THIS SHEET. SEE ADDITIONAL SHEETS FOR FURTHER INFORMATION.
- I. MECHANICAL DUCT WORK TO BE REMOVED. FILL OR REPAIR EXISTING MECHANICAL WALL OPENINGS AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR PLACEMENT OF NEW OR REUSED OPENINGS.
- J. PLUMBING TO BE REMOVED TO CONCEALED AREA AND CAPPED. REFER TO ARCHITECTURAL & PLUMBING DRAWINGS FOR PLACEMENT OF NEW FIXTURES & DRAINS.
- K. ALL ELECTRICAL FIXTURES, WIRING, CONDUIT AND HOUSINGS TO BE REMOVED BACK TO ELECTRICAL PANEL. REFER TO ARCHITECTURAL & ELECTRICAL DRAWINGS FOR PLACEMENT OF NEW FIXTURES, RECEPTACLES, SWITCHES, ETC.

**DEMOLITION PLAN NOTES:**

- 1 REMOVE DOOR AND FRAME.
- 2 REMOVE OVERHEAD DOOR AND ASSOCIATED TRACKS/EQUIPMENT.
- 3 REMOVE MASONRY WALL.
- 4 REMOVE STUD FRAMED WALL.
- 5 REMOVE LOW MASONRY KENNEL WALL AND ASSOCIATED KENNEL FENCING/GATES.
- 6 REMOVE FINISH FLOORING.
- 7 REMOVE FINISH CEILING.
- 8 REMOVE PLUMBING FIXTURE.
- 9 REMOVE MILLWORK.
- 10 REMOVE PORTION OF WALL TO CREATE NEW OPENING.
- 11 REMOVE WINDOW.
- 12 REMOVE EXTERIOR MASONRY WALL.
- 13 REMOVE COLUMNS AND AWNING ABOVE.
- 14 REMOVE INTERIOR WALL FURRING.
- 15 REMOVE EXISTING FOOTING
- 16 EXISTING FOOTING
- 17 EXISTING COLUMN PAD FOOTING
- 18 EXISTING CONCRETE FLOOR SLAB TO REMAIN
- 19 EXISTING SANITARY PIPING SHOWN FOR REFERENCE. REFER TO PLUMBING PLANS.
- 20 NEW FLOOR DRAINS SHOWN FOR REFERENCE. REFER TO PLUMBING PLANS.
- 21 APPROXIMATE LOCATION AND SIZE OF CONCRETE FLOOR SLAB TO BE REMOVED AS NEEDED TO INSTALL NEW FLOOR DRAINS AND ASSOCIATED PIPING.
- 22 REMOVE EXISTING DOOR, FRAME TO REMAIN
- 23 REMOVE EXISTING DOMESTIC WATER HEATER

**LEGEND:**

	ELEVATION SYMBOL
	KEY NOTE
	EXISTING WALL
	APPROXIMATE LOCATION OF EXISTING CONCRETE TO BE SAWCUT
	ITEM TO BE REMOVED
N.I.C.	NOT IN CONTRACT. NO WORK IN THIS AREA

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**City of Taylor**  
23555 Goddard Rd.  
Taylor, MI 48180

Project:  
**City of Taylor**  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180

Seal:

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09-13-2023	25% Complete Review
10-18-2023	50% Complete Review
12-21-2023	Owner Review
01-17-2024	Permit Review

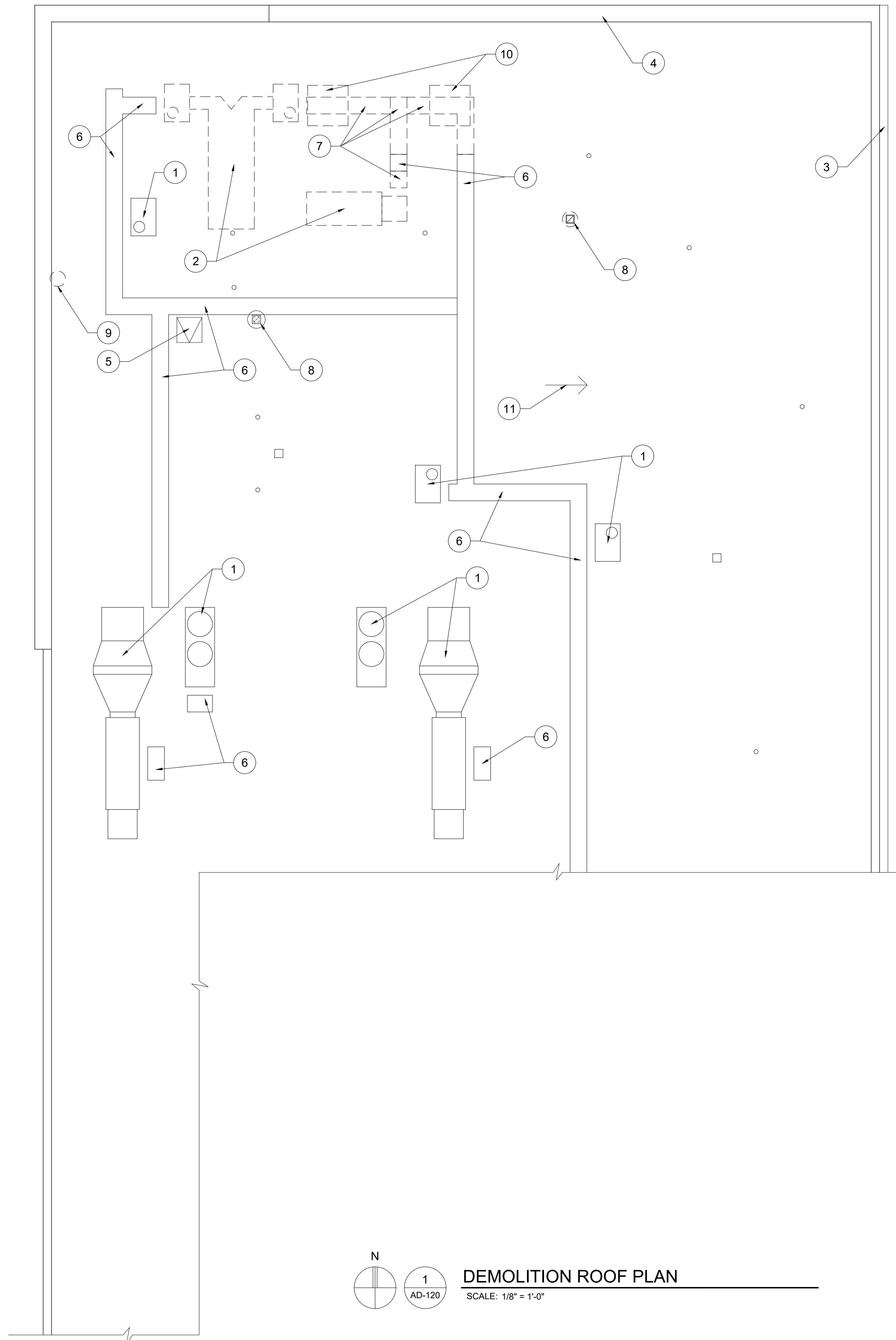
Drawn: WD/JC/NC  
Checked: WD  
Approved: MR

Sheet Title:  
**DEMOLITION**  
**FLOOR PLANS**

Project Number: 22712.A

Sheet Number: **AD-110**

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- GENERAL DEMOLITION NOTES:**
- A. COORDINATE ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION DRAWINGS ACCORDINGLY.
  - B. THESE DEMOLITION NOTES AND PLANS DO NOT FULLY REPRESENT ALL DEMOLITION WORK REQUIRED TO INSTALL NEW WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS, BUT ARE INTENDED TO SERVE AS GENERAL DEMOLITION GUIDELINES. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATIONS OF INCIDENTAL DEMOLITION WORK NOT INDICATED ON THIS PLAN.
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  - G. PROVIDE ALL DUST CURTAINS AND TEMPORARY PARTITIONS AS REQUIRED TO PROTECT EXISTING BUILDING DURING CONSTRUCTION.
  - H. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO THIS SHEET. SEE ADDITIONAL SHEETS FOR FURTHER INFORMATION.
  - I. MECHANICAL DUCT WORK TO BE REMOVED. FILL OR REPAIR EXISTING MECHANICAL WALL OPENINGS AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR PLACEMENT OF NEW OR REUSED OPENINGS.
  - J. PLUMBING TO BE REMOVED TO CONCEALED AREA AND CAPPED. REFER TO ARCHITECTURAL & PLUMBING DRAWINGS FOR PLACEMENT OF NEW FIXTURES & DRAINS.
  - K. ALL ELECTRICAL FIXTURES, WIRING, CONDUIT AND HOUSINGS TO BE REMOVED BACK TO ELECTRICAL PANEL. REFER TO ARCHITECTURAL & ELECTRICAL DRAWINGS FOR PLACEMENT OF NEW FIXTURES, RECEPTACLES, SWITCHES, ETC.

- DEMOLITION ROOF PLAN NOTES:**
- 1 EXISTING RTU
  - 2 EXISTING RTU TO BE REMOVED
  - 3 EXISTING GUTTER
  - 4 EXISTING COPING
  - 5 EXISTING ROOF HATCH
  - 6 EXISTING WALKWAY PADS
  - 7 EXISTING WALKWAY PADS TO BE REMOVED
  - 8 EXISTING EXHAUST VENT
  - 9 AREA OF EXISTING ROOF TO BE REMOVED FOR INSTALLATION OF NEW EXHAUST VENT
  - 10 AREA OF EXISTING ROOF TO BE DEMOLISHED FOR INSTALLATION OF NEW SKYLIGHT
  - 11 EXISTING ROOF SLOPE DOWN



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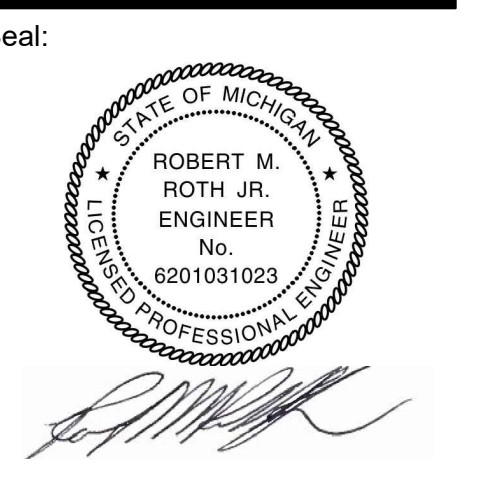
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Client:  
City of Taylor  
23555 Goddard Rd.  
Taylor, MI 48180

Project:  
City of Taylor  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180



Date	Issued For
09-13-2023	25% Complete Review
10-18-2023	50% Complete Review
12-21-2023	Owner Review
01-17-2024	Permit Review

Drawn: WDJ/CNC  
Checked: WD  
Approved: MR

Sheet Title:  
**DEMOLITION  
ROOF PLAN**

Project Number: 22712.A

Sheet Number: **AD-120**

N  
1  
AD-120  
**DEMOLITION ROOF PLAN**  
SCALE: 1/8" = 1'-0"

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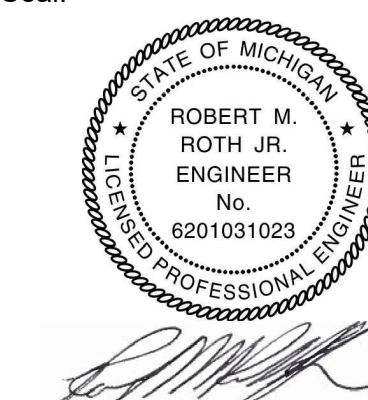
City of Taylor  
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Approved: MR

Sheet Title:  
**DEMOLITION  
ELEVATIONS**

Project Number: **22712.A**

Sheet Number: **AD-130**

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**GENERAL DEMOLITION NOTES:**

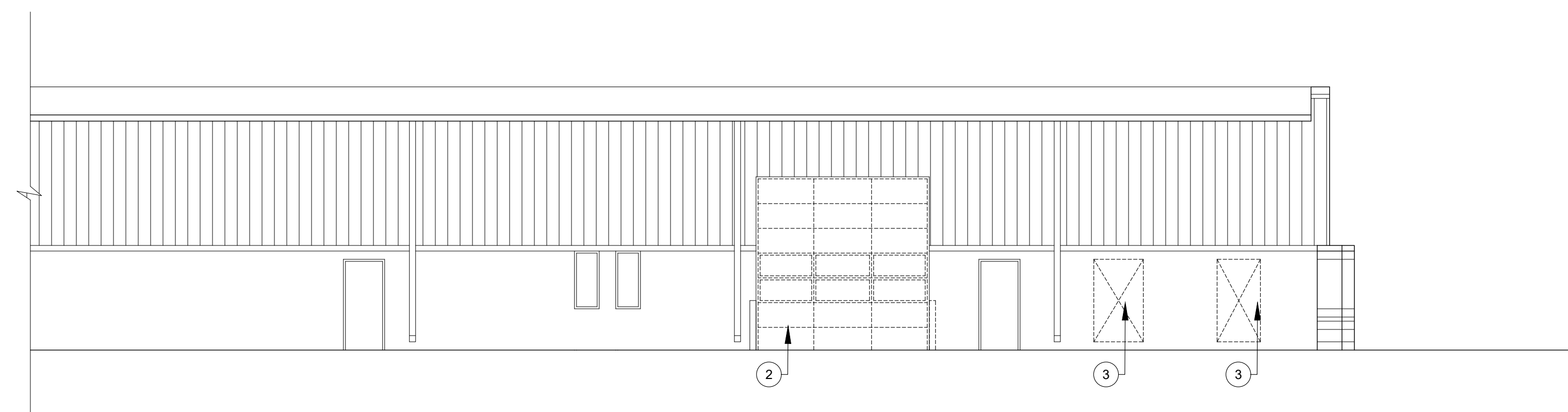
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- H. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO THIS SHEET. SEE ADDITIONAL SHEETS FOR FURTHER INFORMATION.
- I. MECHANICAL DUCT WORK TO BE REMOVED. FILL OR REPAIR EXISTING MECHANICAL WALL OPENINGS AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR PLACEMENT OF NEW OR REUSED OPENINGS.
- J. PLUMBING TO BE REMOVED TO CONCEALED AREA AND CAPPED. REFER TO ARCHITECTURAL & PLUMBING DRAWINGS FOR PLACEMENT OF NEW FIXTURES & DRAINS.
- K. ALL ELECTRICAL FIXTURES, WIRING, CONDUIT AND HOUSINGS TO BE REMOVED BACK TO ELECTRICAL PANEL. REFER TO ARCHITECTURAL & ELECTRICAL DRAWINGS FOR PLACEMENT OF NEW FIXTURES, RECEPTACLES, SWITCHES, ETC.

**DEMOLITION ELEVATION NOTES:**

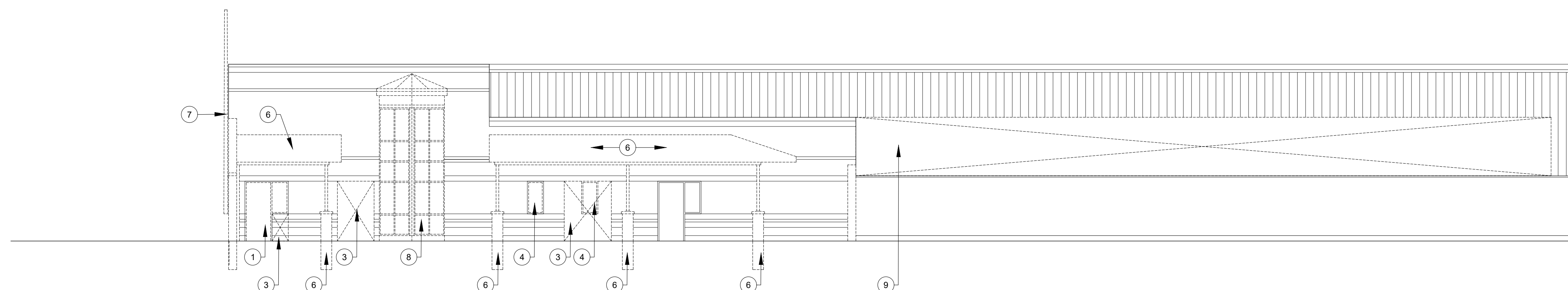
- 1 REMOVE DOOR AND FRAME.
- 2 REMOVE OVERHEAD DOOR AND ASSOCIATED TRACKS/EQUIPMENT.
- 3 REMOVE PORTION OF WALL TO CREATE NEW OPENING.
- 4 REMOVE WINDOW.
- 5 REMOVE EXTERIOR MASONRY WALL AND ASSOCIATED FOOTING.
- 6 REMOVE COLUMNS AND AWNING ABOVE.
- 7 REMOVE AND RELOCATE WALL MOUNTED FLAG POLE.
- 8 REMOVE CURTAIN WALL WINDOW SYSTEM.
- 9 REMOVE PORTION OF EXISTING METAL SIDING TO A HEIGHT OF 12" ABOVE THE NEW T.O.S. DECK ELEVATION

**LEGEND:**

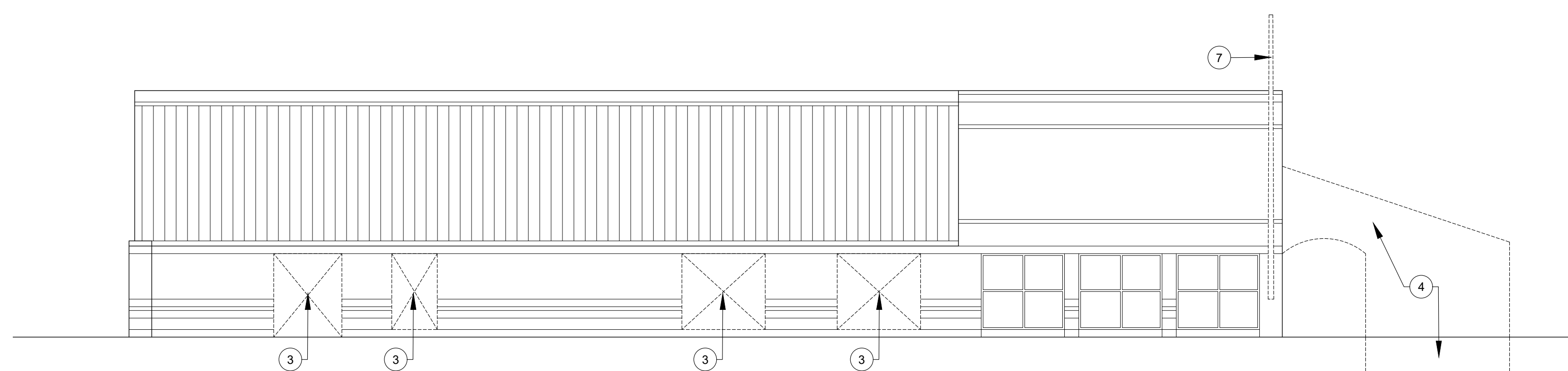
- (X) → KEY NOTE
- ITEM TO BE REMOVED



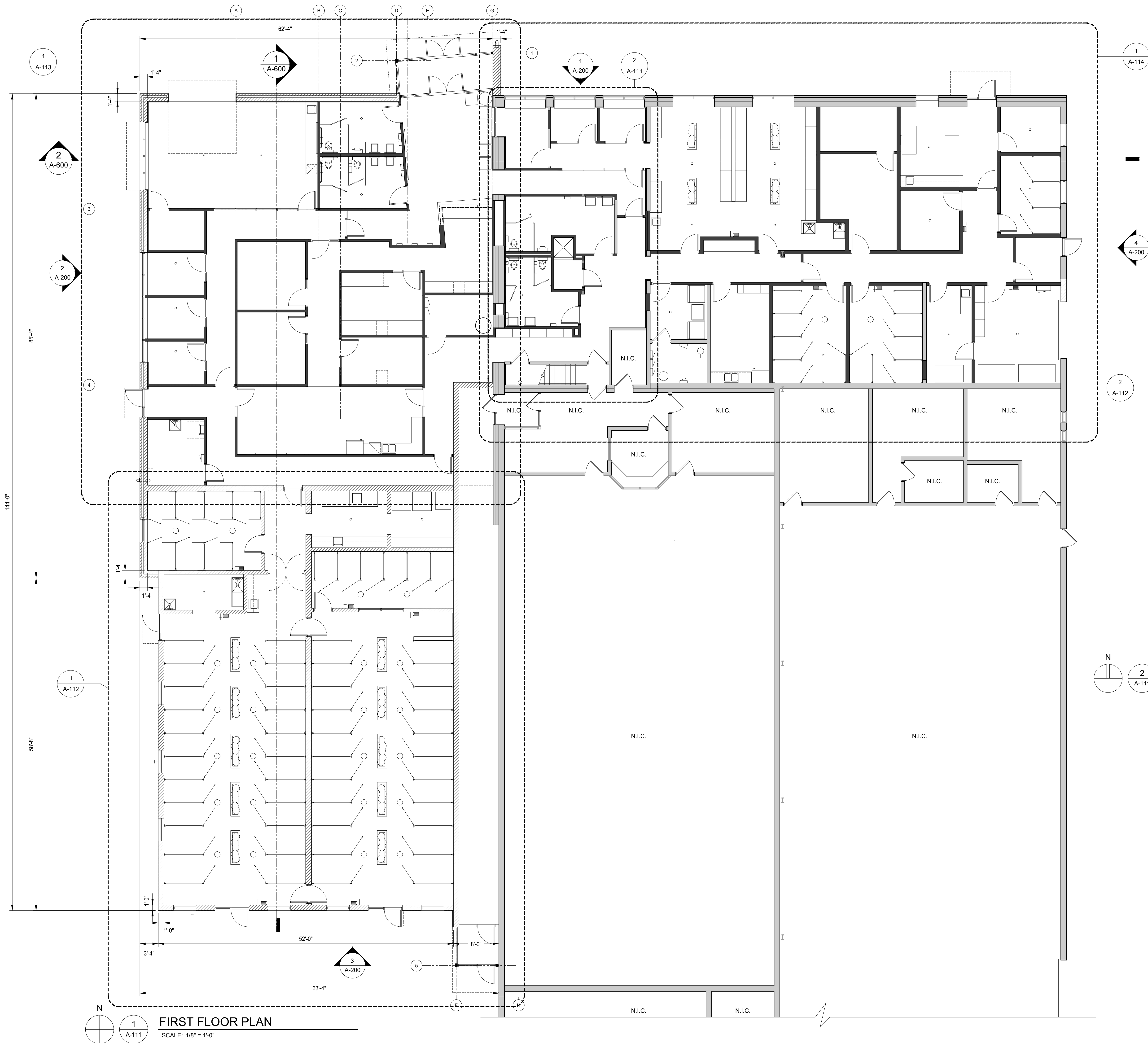
**1 EAST DEMOLITION ELEVATION**  
AD-130 SCALE: 1/8" = 1'-0"



**2 WEST DEMOLITION ELEVATION**  
AD-130 SCALE: 1/8" = 1'-0"

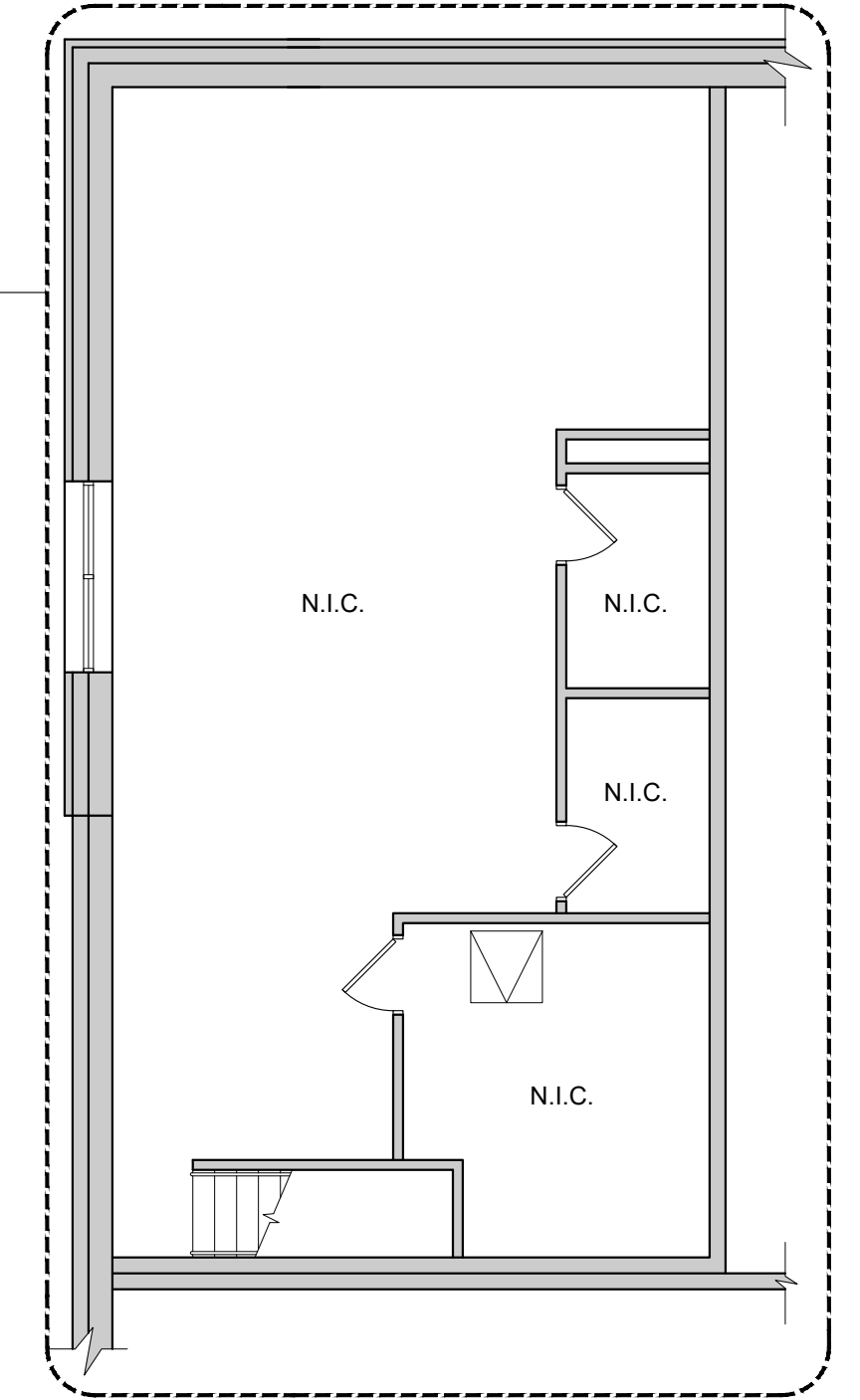


**3 NORTH DEMOLITION ELEVATION**  
AD-130 SCALE: 1/8" = 1'-0"



**LEGEND:**

	ELEVATION SYMBOL
	BUILDING SECTION SYMBOL
	PLAN DETAIL SYMBOL
	KEY NOTE
	NEW DOOR TAG (SEE DOOR TYPES SHEET A-900)
	EXISTING WALLS
	NEW PARTITION WALL
	NEW MASONRY WALL
	NOT IN CONTRACT NO WORK IN THIS ROOM
	NEW DOOR
	EXISTING DOOR



**SECOND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

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Seal:

*Robert M. Roth Jr.*

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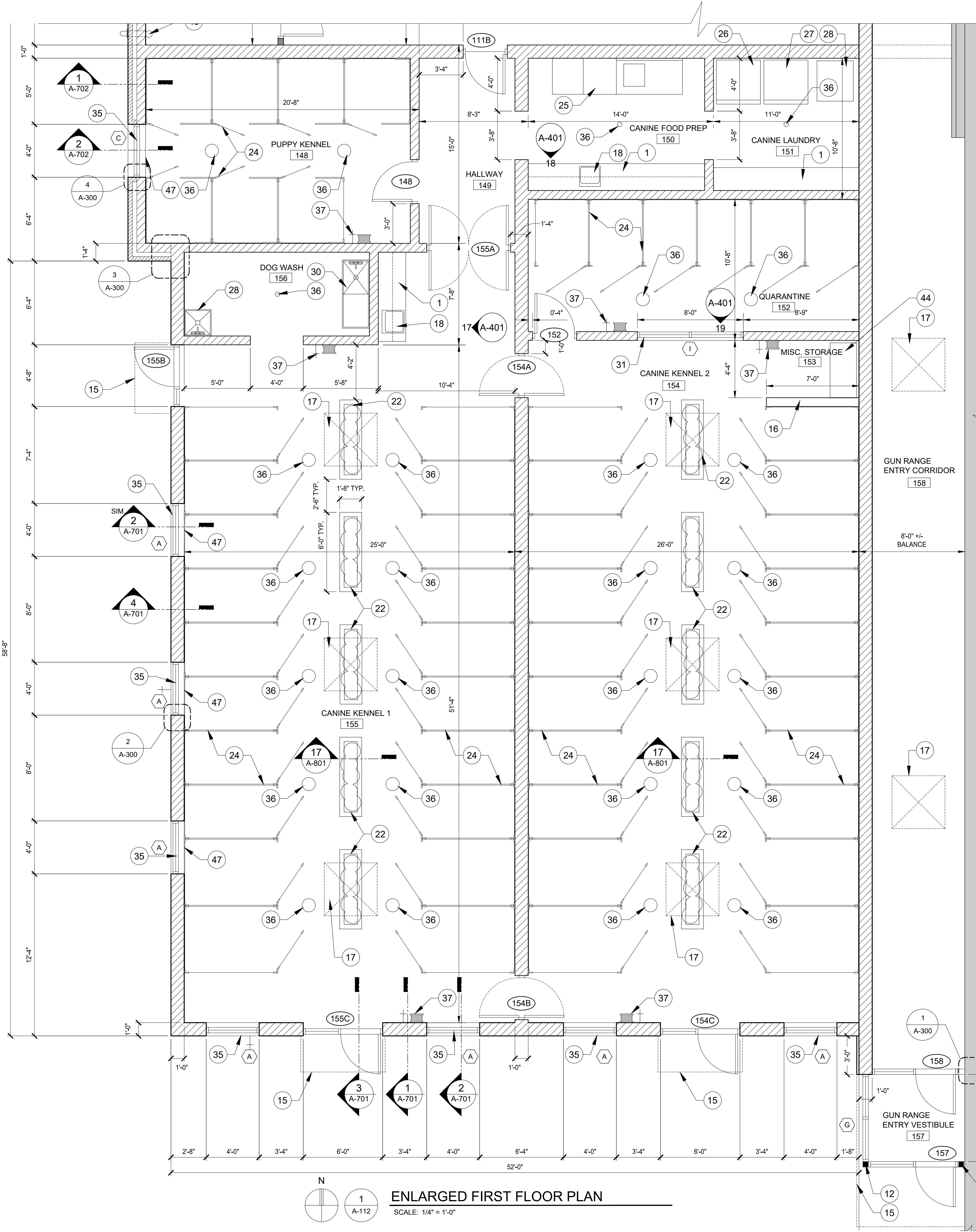
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Approved: MR

Sheet Title:  
**FLOOR PLAN**

Project Number: **22712.A**

Sheet Number: **A-111**

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**ENLARGED FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**ENLARGED SECOND FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**LEGEND:**

	ELEVATION SYMBOL
	BUILDING SECTION SYMBOL
	PLAN DETAIL SYMBOL
	KEY NOTE
	NEW DOOR TAG (SEE DOOR TYPES & SCHEDULE, SHEETS A-900 & A-901)
	EXISTING WALLS
	NEW PARTITION WALL
	NEW MASONRY WALL
	NOT IN CONTRACT NO WORK IN THIS ROOM
	NEW DOOR
	EXISTING DOOR (EX)
	WINDOW TAG (SEE WINDOW TYPES, SHEET A-900)

**GENERAL NOTES:**

- A. ALL FLOOR PLANS NOTES LISTED BELOW MAY NOT BE UTILIZED WITHIN THIS DRAWING SHEET.
- B. DIMENSION STRINGS ORIGINATE FROM FACE OF GYP. BD. ON ONE SIDE OF WALL. DIMENSION STRINGS AT EXTERIOR WALLS ORIGINATE FROM INSIDE FACE OF CMU. WALL THICKNESS NOT SHOWN, REFER TO LS-100 FOR WALL TYPES.
- C. SEE LS-100 FOR WALL TYPES.

**ENLARGED PLAN NOTES:**

- 1 MILLWORK. REFER TO INTERIOR ELEVATION.
- 2 WALL MOUNTED T.V. (OWNER SUPPLIED)
- 3 WALL MOUNTED ELECTRICAL PANEL
- 4 WALL MOUNTED MIRROR
- 5 WALL MOUNTED SOAP DISPENSER
- 6 WALL MOUNTED PAPER TOWEL DISPENSER
- 7 WALL MOUNTED TOILET PAPER DISPENSER
- 8 WALL MOUNTED ADA COMPLIANT GRAB BARS
- 9 WALL MOUNTED HAND SINK
- 10 TOILET
- 11 URINAL
- 12 NEW STRUCTURAL COLUMN.
- 13 COLUMNS WITHIN ROOM TO BE 'BOXED-OUT' WITH STUD FRAMING AND GYP. BD.
- 14 OVERHEAD SECTIONAL DOOR
- 15 CANOPY ABOVE
- 16 HALF-HIGH WALL
- 17 SKYLIGHT ABOVE
- 18 SINK
- 19 ELECTRIC RANGE
- 20 REFRIGERATOR
- 21 TOILET PARTITION
- 22 PLANTER BOX
- 23 FELINE KENNEL SUPPLIED BY OWNER
- 24 CANINE KENNEL SUPPLIED BY OWNER
- 25 DISHWASHING EQUIPMENT
- 26 WASHING MACHINE
- 27 CLOTHES DRYER
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- 35 NEW WINDOW
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- 43 ANIMAL EXAM TABLE BY OWNER
- 44 HEAVY DUTY FREE STANDING SHELVING UNIT BY OWNER
- 45 WALL FURRING
- 46 STUDWALL INFILL AT EXISTING WALL OPENING
- 47 SOLID SURFACE WINDOW SILL
- 48 EXISTING STRUCTURAL COLUMN
- 49 MASONRY WALL INFILL AT PREVIOUS OVERHEAD DOOR OPENING. NEW MASONRY TO MATCH EXISTING ADJACENT WALL
- 50 WALL MOUNTED ROOF ACCESS LADDER
- 51 ELECTRONIC KIOSK
- 52 NEW DOOR IN EXISTING FRAME
- 53 WALL MOUNTED SANITARY NAPKIN DISPOSAL
- 54 EXISTING ROOF HATCH ACCESS ABOVE
- 55 NEW HOT WATER HEATER
- 56 NEW FIRE PROTECTION RISER

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Taylor, MI 48180

Seal:

Date	Issued For
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10-18-2023	50% Complete Review
12-21-2023	Owner Review
01-17-2024	Permit Review

Drawn: WD/JC/NC  
Checked: WD  
Approved: MR

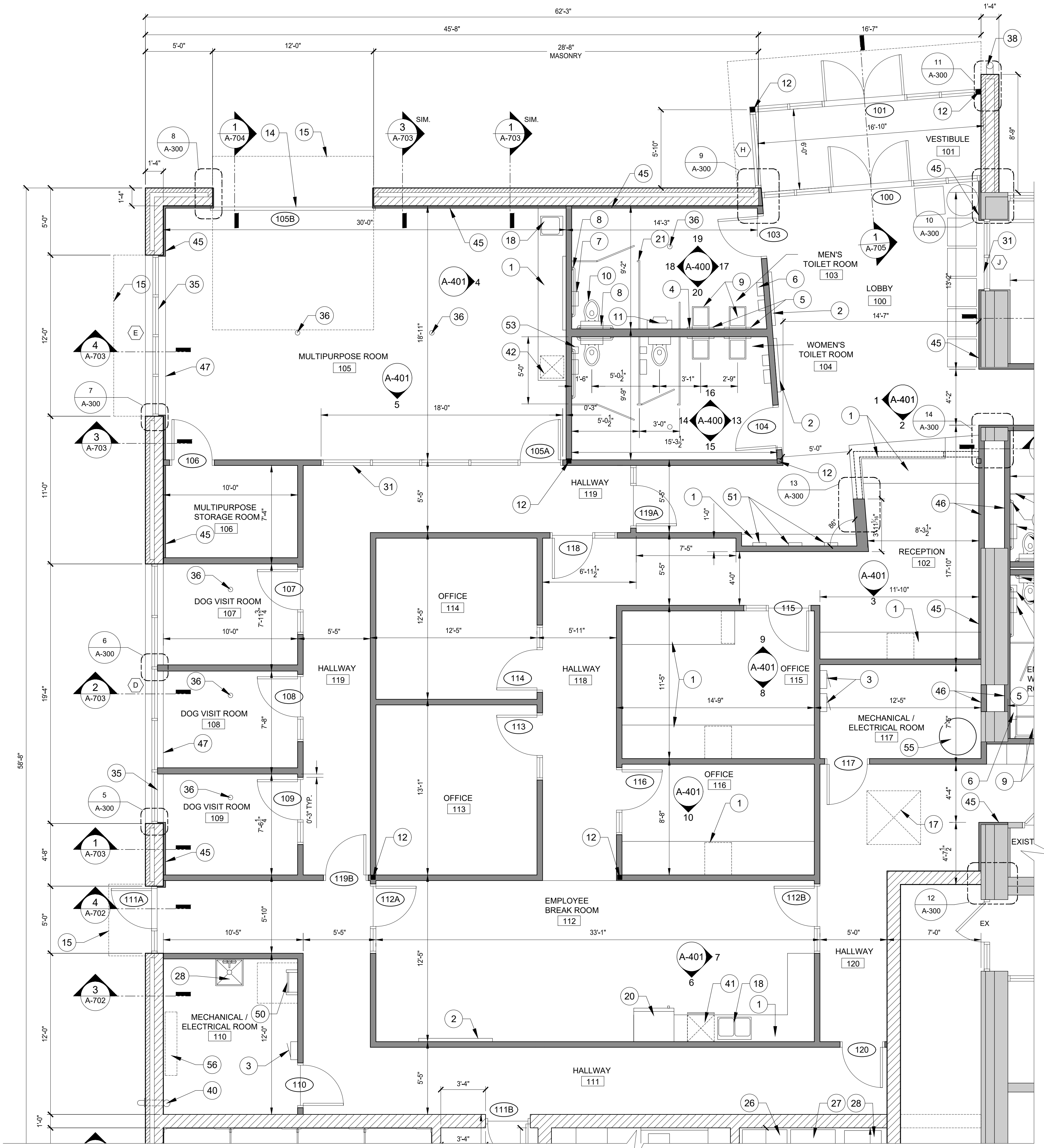
Sheet Title:  
**ENLARGED FLOOR PLANS**

Project Number: **22712.A**

Sheet Number: **A-112**

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1  
**ENLARGED FIRST FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

**LEGEND:**

	ELEVATION SYMBOL
	BUILDING SECTION SYMBOL
	PLAN DETAIL SYMBOL
	KEY NOTE
	NEW DOOR TAG (SEE DOOR TYPES & SCHEDULE, SHEETS A-900 & A-901)
	EXISTING WALLS
	NEW PARTITION WALL
	NEW MASONRY WALL
	N.I.C.
	NEW DOOR
	EXISTING DOOR (EX)
	WINDOW TAG (SEE WINDOW TYPES, SHEET A-900)

**GENERAL NOTES:**

A. ALL FLOOR PLANS NOTES LISTED BELOW MAY NOT BE UTILIZED WITHIN THIS DRAWING SHEET.

B. DIMENSION STRINGS ORIGINATE FROM FACE OF GYP. BD. ON ONE SIDE OF WALL. DIMENSION STRINGS AT EXTERIOR WALLS ORIGINATE FROM INSIDE FACE OF CMU. WALL THICKNESS NOT SHOWN, REFER TO LS-100 FOR WALL TYPES.

C. SEE LS-100 FOR WALL TYPES.

**ENLARGED PLAN NOTES:**

- 1 MILLWORK. REFER TO INTERIOR ELEVATION.
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- 3 WALL MOUNTED ELECTRICAL PANEL
- 4 WALL MOUNTED MIRROR
- 5 WALL MOUNTED SOAP DISPENSER
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- 8 WALL MOUNTED ADA COMPLIANT GRAB BARS
- 9 WALL MOUNTED HAND SINK
- 10 TOILET
- 11 URINAL
- 12 NEW STRUCTURAL COLUMN.
- 13 COLUMNS WITHIN ROOM TO BE 'BOXED-OUT' WITH STUD FRAMING AND GYP. BD.
- 14 OVERHEAD SECTIONAL DOOR
- 15 CANOPY ABOVE
- 16 HALF-HIGH WALL
- 17 SKYLIGHT ABOVE
- 18 SINK
- 19 ELECTRIC RANGE
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- 21 TOILET PARTITION
- 22 PLANTER BOX
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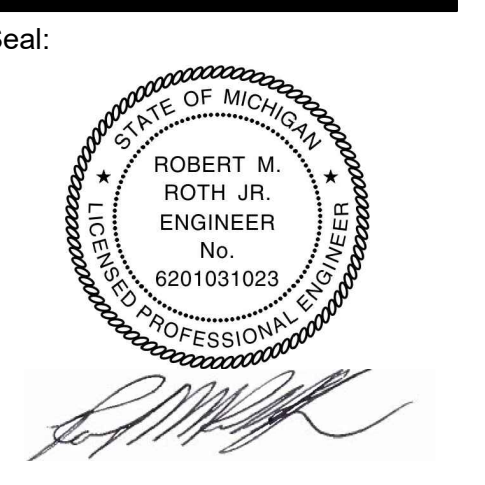
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**Animal Shelter**  
**Remodel & Expansion**

25555 Northline Rd.  
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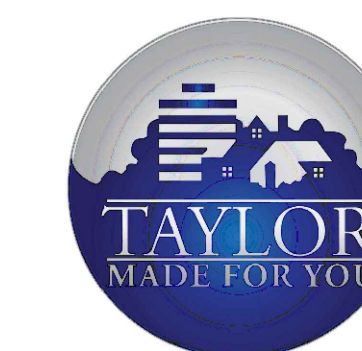
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 Approved: MR

Sheet Title:  
**ENLARGED**  
**FLOOR PLANS**

Project Number: **22712.A**

Sheet Number: **A-113**

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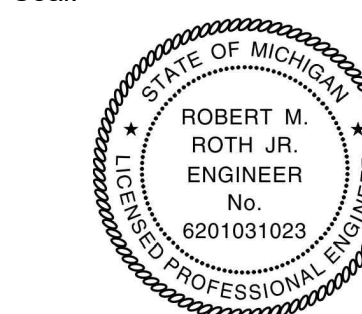


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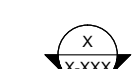
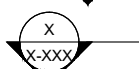
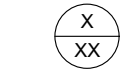
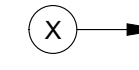


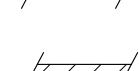

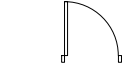


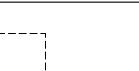
Sheet Title:  
**ENLARGED FLOOR PLANS**

Project Number: 22712.A

Sheet Number: **A-114**

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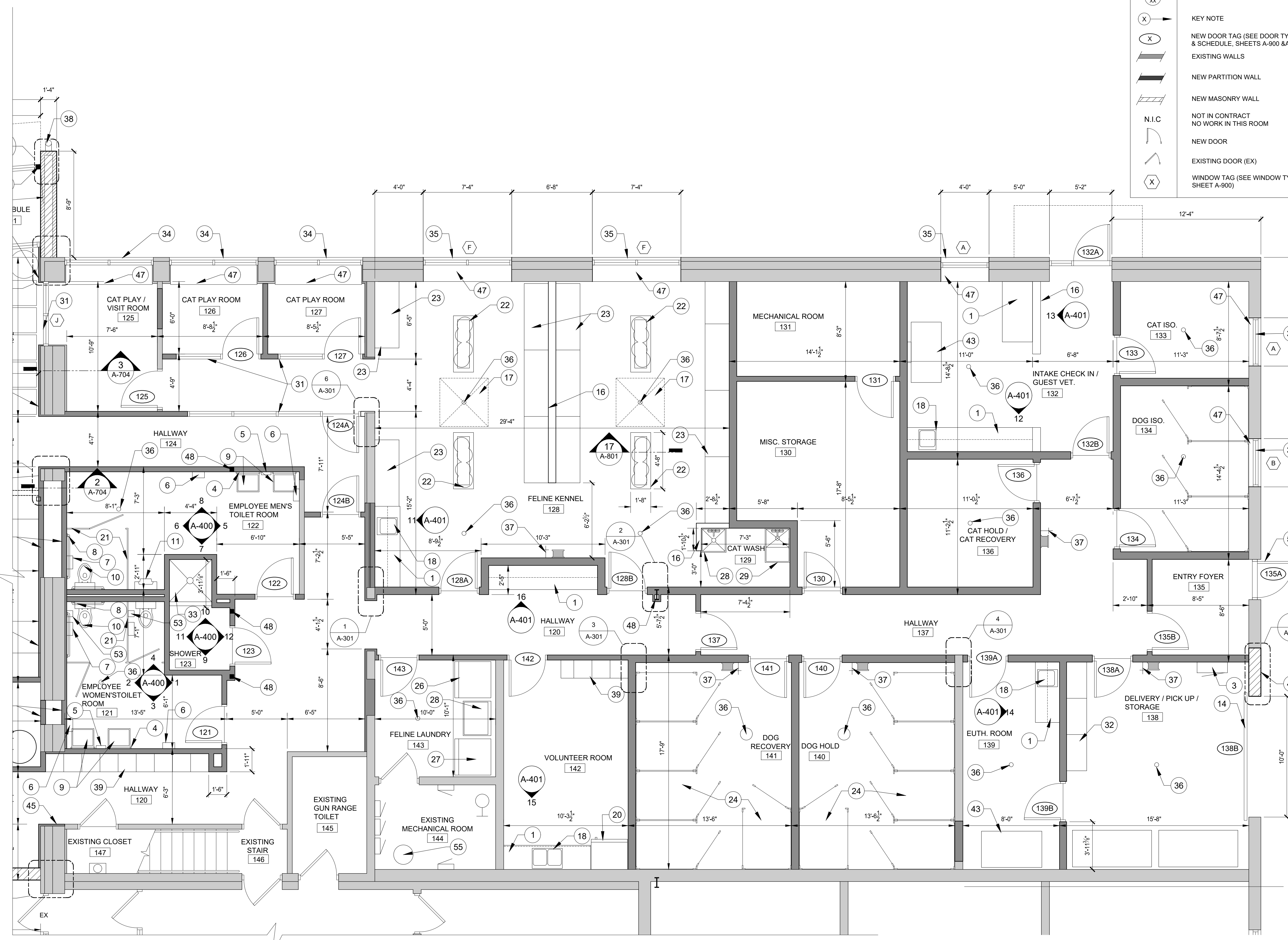
	ELEVATION SYMBOL
	BUILDING SECTION SYMBOL
	PLAN DETAIL SYMBOL
	KEY NOTE
	NEW DOOR TAG (SEE DOOR TYPES & SCHEDULE, SHEETS A-900 & A-901)
	EXISTING WALLS
	NEW PARTITION WALL
	NEW MASONRY WALL
	NOT IN CONTRACT NO WORK IN THIS ROOM
	NEW DOOR
	EXISTING DOOR (EX)
	WINDOW TAG (SEE WINDOW TYPES, SHEET A-900)

**GENERAL NOTES:**

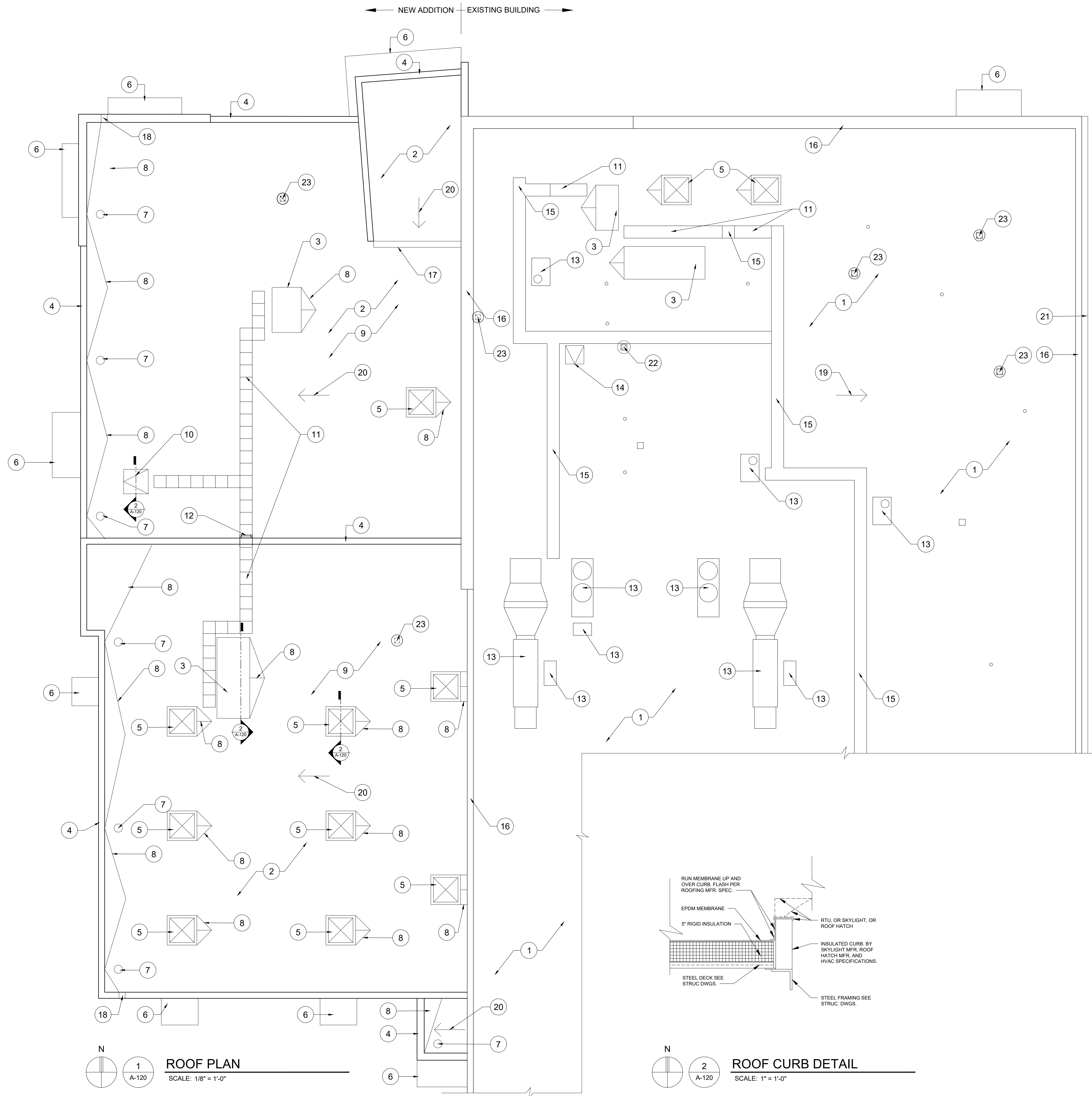
- A. ALL FLOOR PLANS NOTES LISTED BELOW MAY NOT BE UTILIZED WITHIN THIS DRAWING SHEET.
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- 56 NEW FIRE PROTECTION RISER



N  
1  
A-114  
**ENLARGED FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**GENERAL NOTES:**

- A. NEW ROOFING SYSTEM CONSISTS OF EPDM MEMBRANE ON 5" RIGID INSULATION ON SLOPED STRUCTURAL DECK. ROOF SADDLES TO BE COMPRISED OF TAPERED INSULATION.
- B. NEW ROOFING SYSTEM IS TO BE INSTALLED PER THE MFR. SPECIFICATIONS AS REQUIRED TO MEET PRODUCT WARRANTY GUIDELINES. THIS WOULD INCLUDE THE FOLLOWING DETAILS: LAPS, SEAMS, PIPE PENETRATIONS, ROOF CURB TERMINATIONS, PARAPET WALL TERMINATIONS, PRESSURE BARS, SADDLES, AND ALL REQUIRED FASTENERS/ADHESIVES/SEALANTS/CAULKS.
- C. ROOFING CONTRACTOR IS REQUIRED TO BE A CERTIFIED INSTALLER OF THE FINAL ROOFING PRODUCT/MFR. SELECTION.
- D. REFER TO STRUCTURAL, MECHANICAL, AND PLUMBING PLANS FOR ADDITIONAL INFORMATION REGARDING ROOF PENETRATIONS & OPENINGS.
- E. REFER TO WALL SECTIONS FOR COPING DETAILS.
- F. THE CONTRACTOR SHALL COORDINATE STRUCTURAL STEEL OPENING SIZES W/ ALL ROOF CURB SIZES PRIOR TO COMMENCEMENT OF WORK.
- G. REFER TO A-900 FOR PRODUCT INFORMATION. PRODUCTS INCLUDE SKYLIGHTS, ROOF HATCH, & ROOF ACCESS LADDERS.

**ROOF PLAN NOTES:**

- 1 EXISTING ROOFING TO REMAIN
- 2 NEW EPDM MEMBRANE ROOFING AND RIGID INSULATION
- 3 NEW RTU AND CURB. SEE MECHANICAL DRAWINGS.
- 4 NEW COPING AT PARAPET WALL. SEE WALL SECTIONS.
- 5 NEW SKYLIGHT AND CURB. SEE STRUCTURAL PLANS FOR EXACT LOCATION.
- 6 NEW CANOPY BELOW
- 7 NEW ROOF DRAIN
- 8 NEW TAPERED INSULATION ROOF SADDLE
- 9 NEW ROOF STRUCTURE TO SLOPE TO DRAINS. SEE STRUCTURAL DRAWINGS.
- 10 NEW ROOF HATCH WITH INTEGRAL CURB.
- 11 NEW EPDM WALKWAY PADS
- 12 NEW ROOF ACCESS LADDER
- 13 EXISTING HVAC EQUIPMENT
- 14 EXISTING ROOF ACCESS HATCH
- 15 EXISTING WALKING PADS
- 16 EXISTING COPING
- 17 NEW GUTTER
- 18 NEW THROUGH WALL OVERFLOW SCUPPER
- 19 EXISTING ROOF SLOPE DOWN
- 20 NEW ROOF SLOPE DOWN
- 21 EXISTING GUTTER
- 22 EXISTING EXHAUST VENT
- 23 NEW EXHAUST VENT

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*[Signature]*

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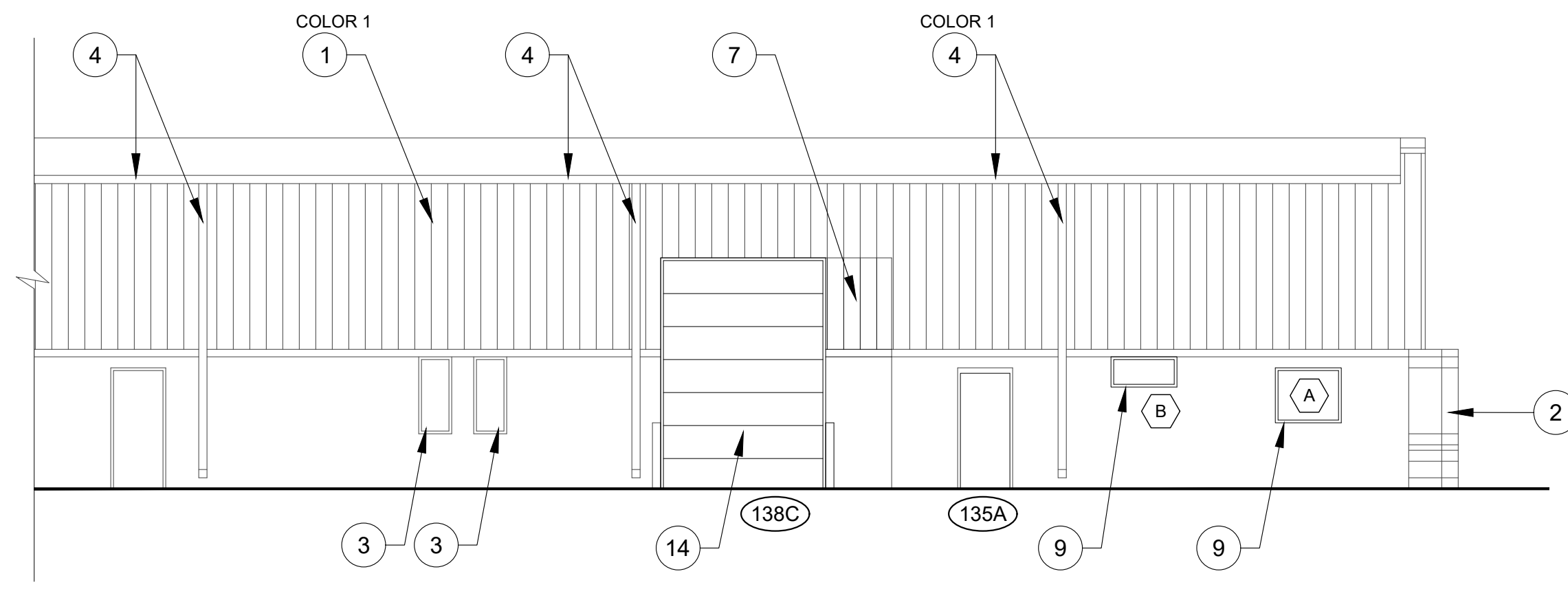
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 Checked: WD  
 Approved: MR

Sheet Title:  
**ROOF PLAN**

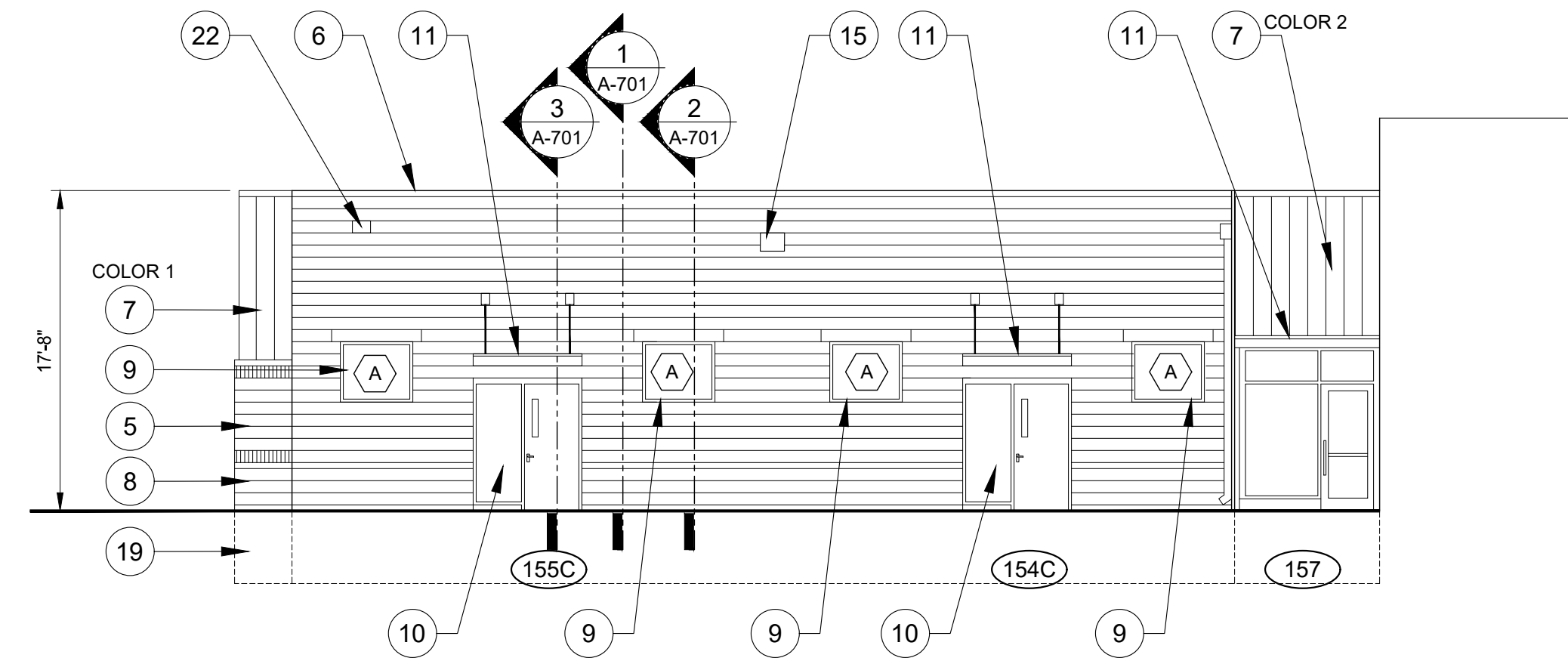
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Sheet Number: **A-120**

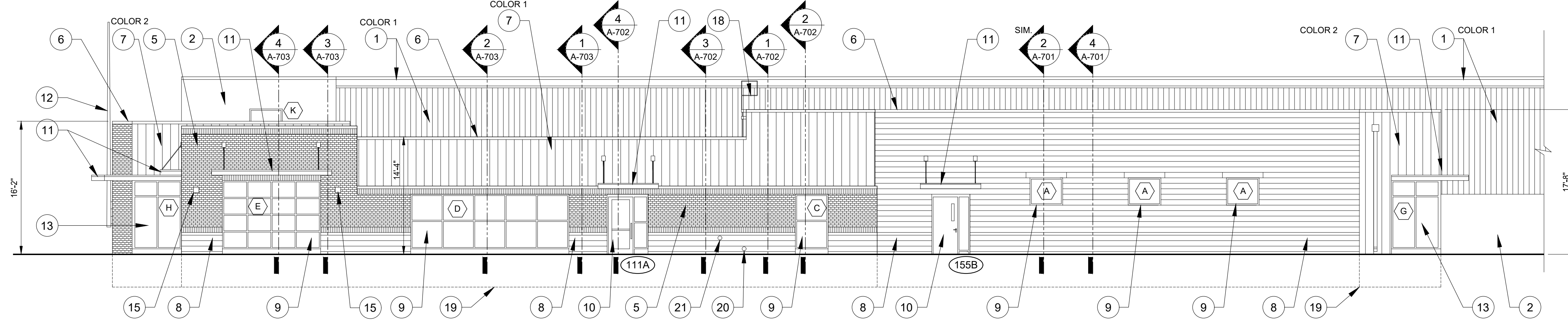
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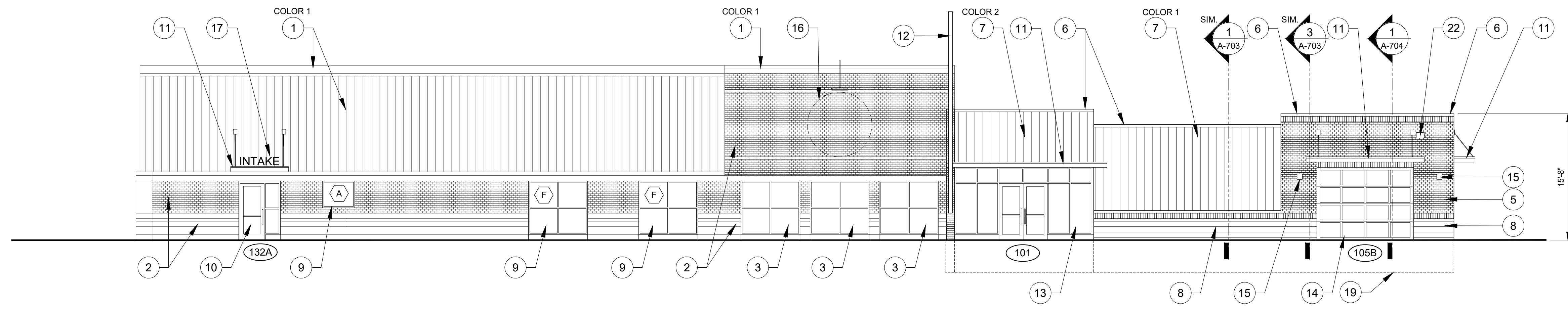
**3**  
A-200  
**PROPOSED EAST ELEVATION**  
SCALE: 1/8" = 1'-0"



**3**  
A-200  
**PROPOSED SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**2**  
A-200  
**PROPOSED WEST ELEVATION**  
SCALE: 1/8" = 1'-0"



**1**  
A-200  
**PROPOSED NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"

**LEGEND:**

	BUILDING SECTION SYMBOL
	KEY NOTE
	NEW DOOR TAG (SEE SHEET A-900 FOR MORE INFO.)
	NEW WINDOW TAG (SEE SHEET A-900 FOR MORE INFO.)

**GENERAL NOTES:**

- A. REFER TO SHEET A-901 FOR EXTERIOR MATERIAL INFORMATION.
- B. NEW SPLIT-FACE BLOCK TO MATCH EXISTING.
- C. NEW FACEBRICK TO MATCH EXISTING.
- D. NEW METAL SIDING PROFILE TO MATCH EXISTING. AT COLOR 1 LOCATIONS.
- E. NEW METAL SIDING TO BE FLUSH PANEL PROFILE AT COLOR 2 LOCATIONS.

**ELEVATION KEY NOTES:**

- 1 EXISTING METAL SIDING AND COPING (TO BE PAINTED) (SEE A-901)
- 2 EXISTING MASONRY (TO BE POWER WASHED)
- 3 EXISTING WINDOW
- 4 EXISTING GUTTER & DOWNSPOUT (TO BE PAINTED)
- 5 NEW FACEBRICK VENEER TO MATCH EXISTING (SEE A-901)
- 6 NEW METAL COPING THROUGHOUT
- 7 NEW METAL SIDING COLOR 1 & COLOR 2 (SEE A-901)
- 8 NEW SPLIT-FACE BLOCK TO MATCH EXISTING
- 9 NEW WINDOW
- 10 NEW DOOR
- 11 NEW METAL CANOPY
- 12 RELOCATED WALL MOUNTED FLAG POLE
- 13 NEW STOREFRONT SYSTEM
- 14 NEW OVERHEAD SECTIONAL DOOR
- 15 NEW WALL MOUNTED LIGHT FIXTURE
- 16 LOCATION OF NEW WALL MOUNTED SIGN
- 17 NEW METAL LETTERING FIXED TO CANOPY
- 18 NEW ROOF ACCESS LADDER
- 19 LINE OF NEW FOOTING
- 20 NEW BRASS 'COWS TONGUE' DOWNSPOUT
- 21 NEW FIRE DEPARTMENT CONNECTION (FDC)
- 22 NEW THROUGH-WALL OVERFLOW SCUPPER



Client:  
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Sheet Title:  
**ELEVATIONS**

Project Number: **22712.A**

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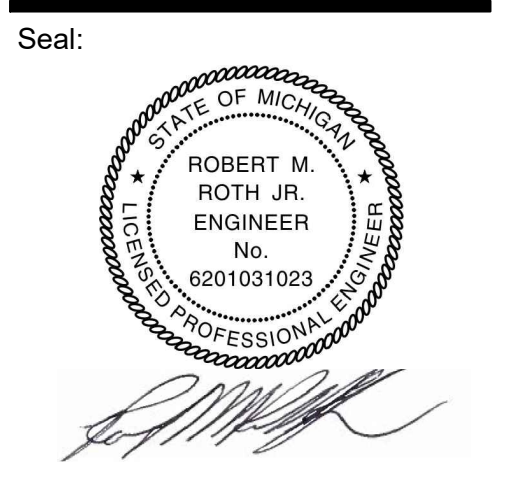
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Sheet Title:  
**PLAN DETAILS**

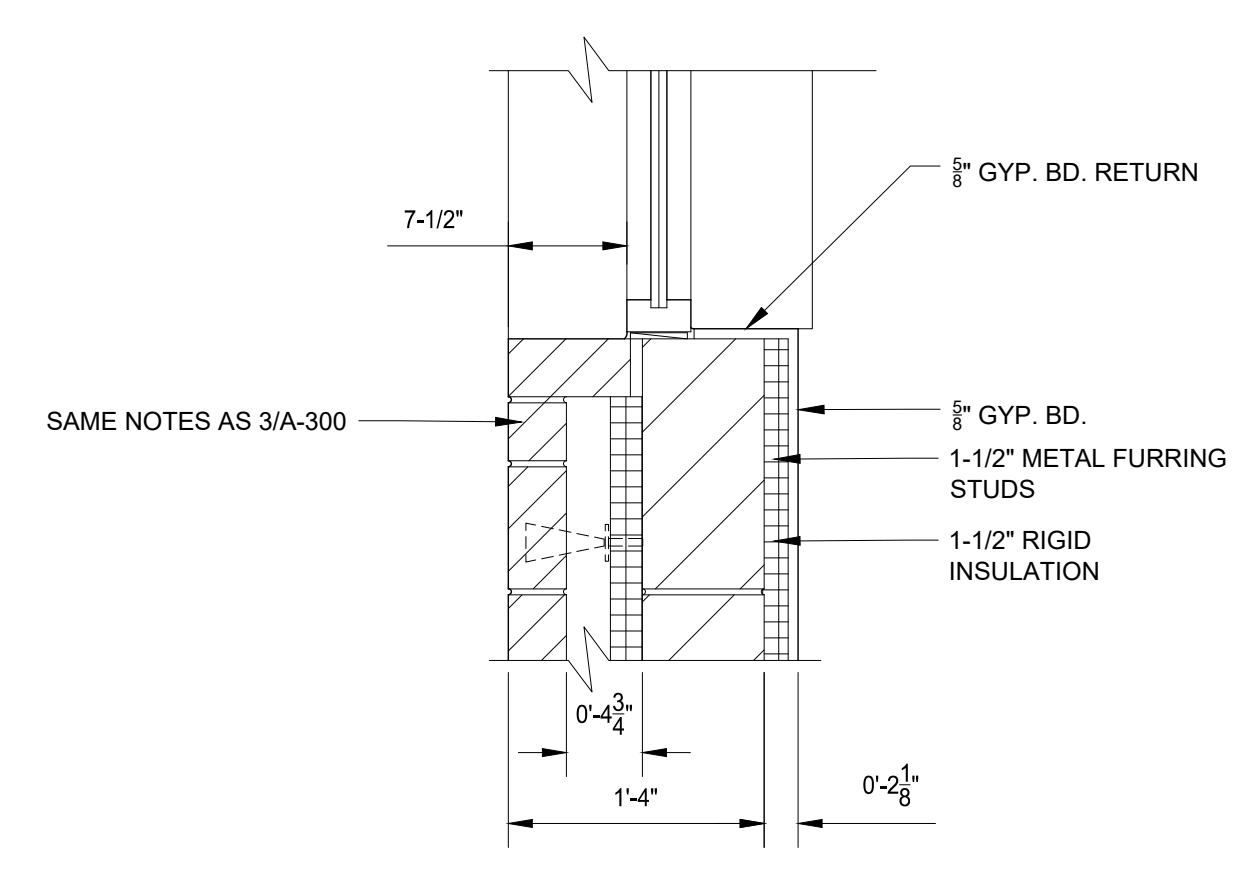
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Sheet Number: **A-300**

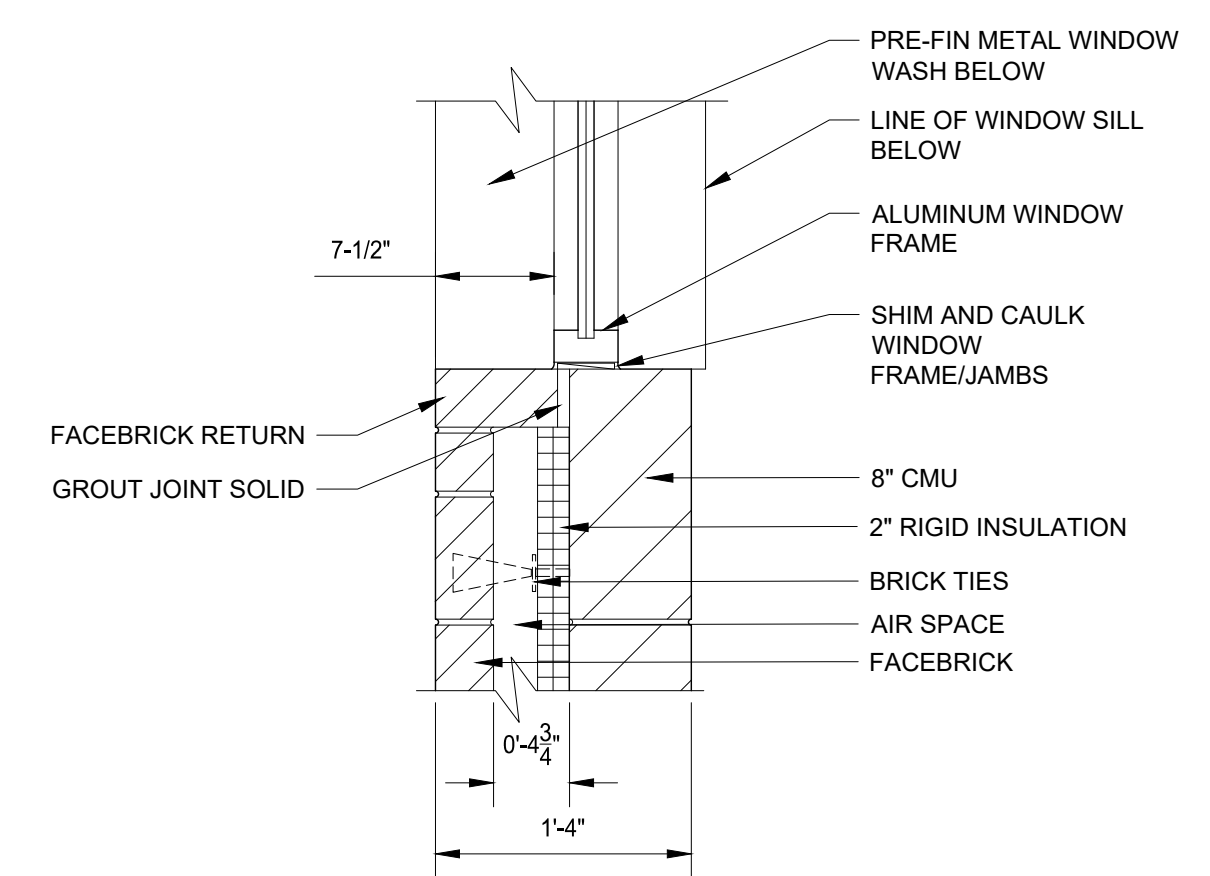
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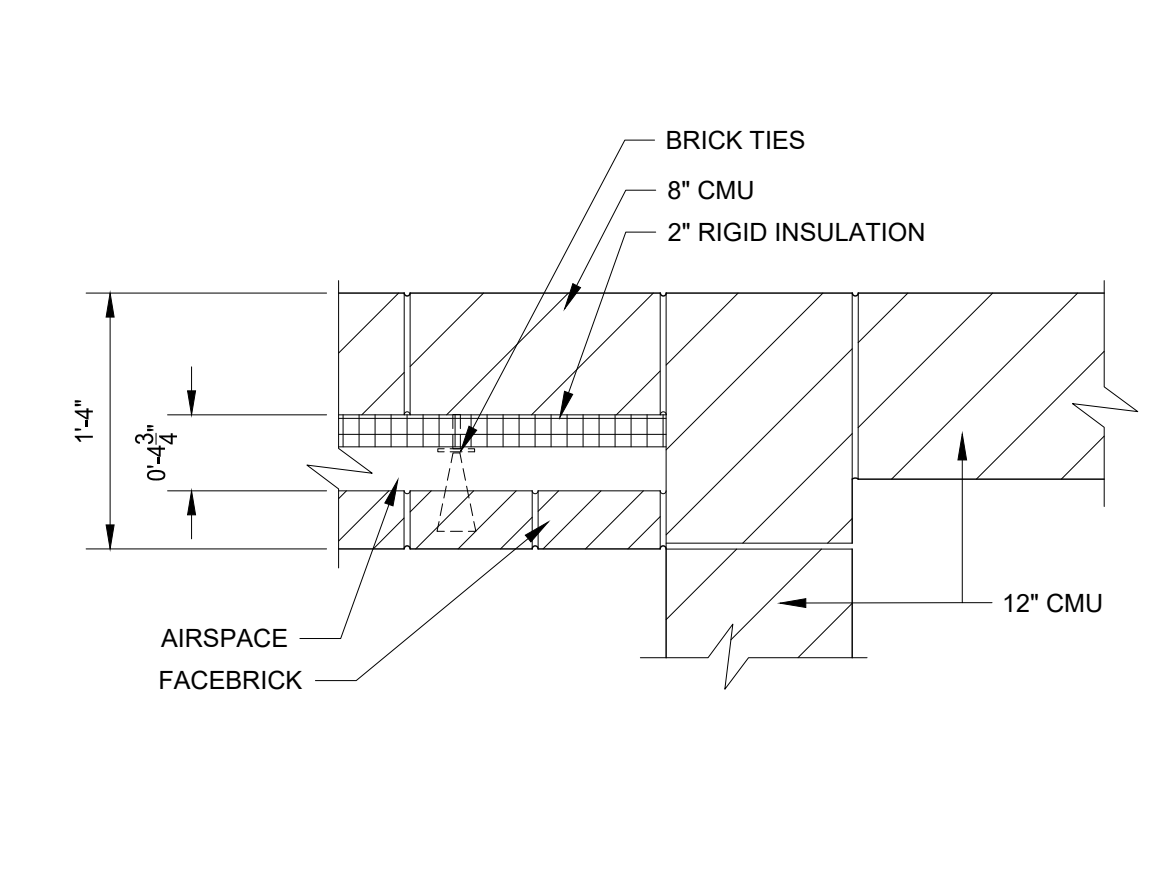
- A. REFER TO LS-100 WALL TYPE INFORMATION. WALL CAVITY INSULATION NOT SHOWN THIS SHEET.
- B. REFER TO STRUCTURAL DRAWINGS FOR MASONRY WALL INFORMATION.



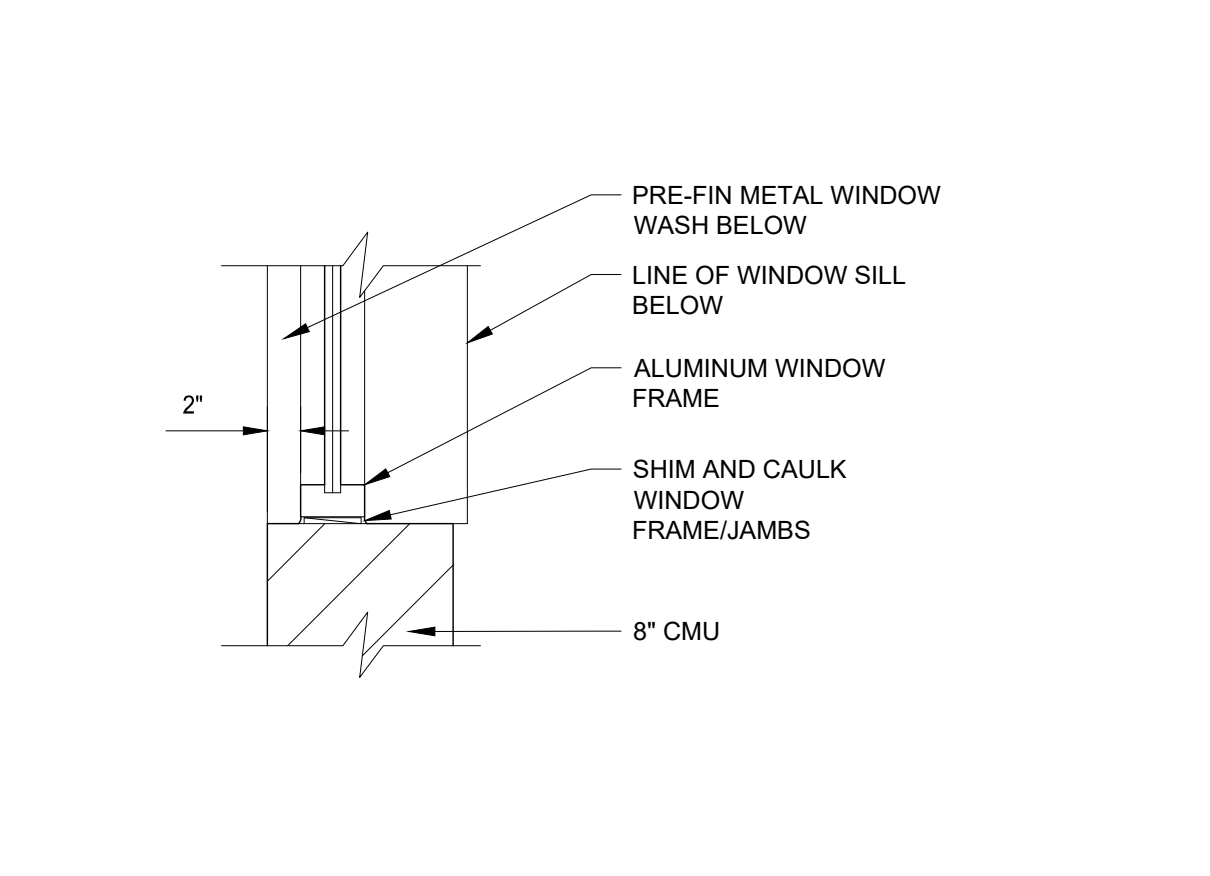
**5 PLAN DETAIL**  
SCALE: 1" = 1'-0"



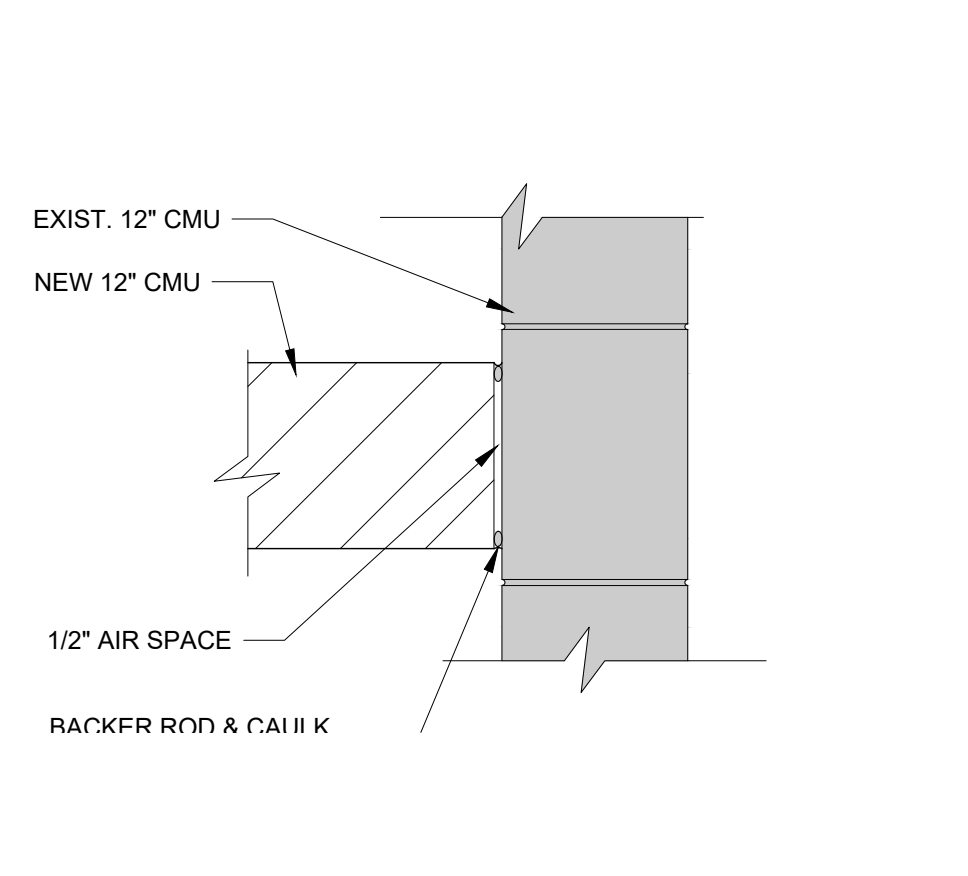
**4 PLAN DETAIL**  
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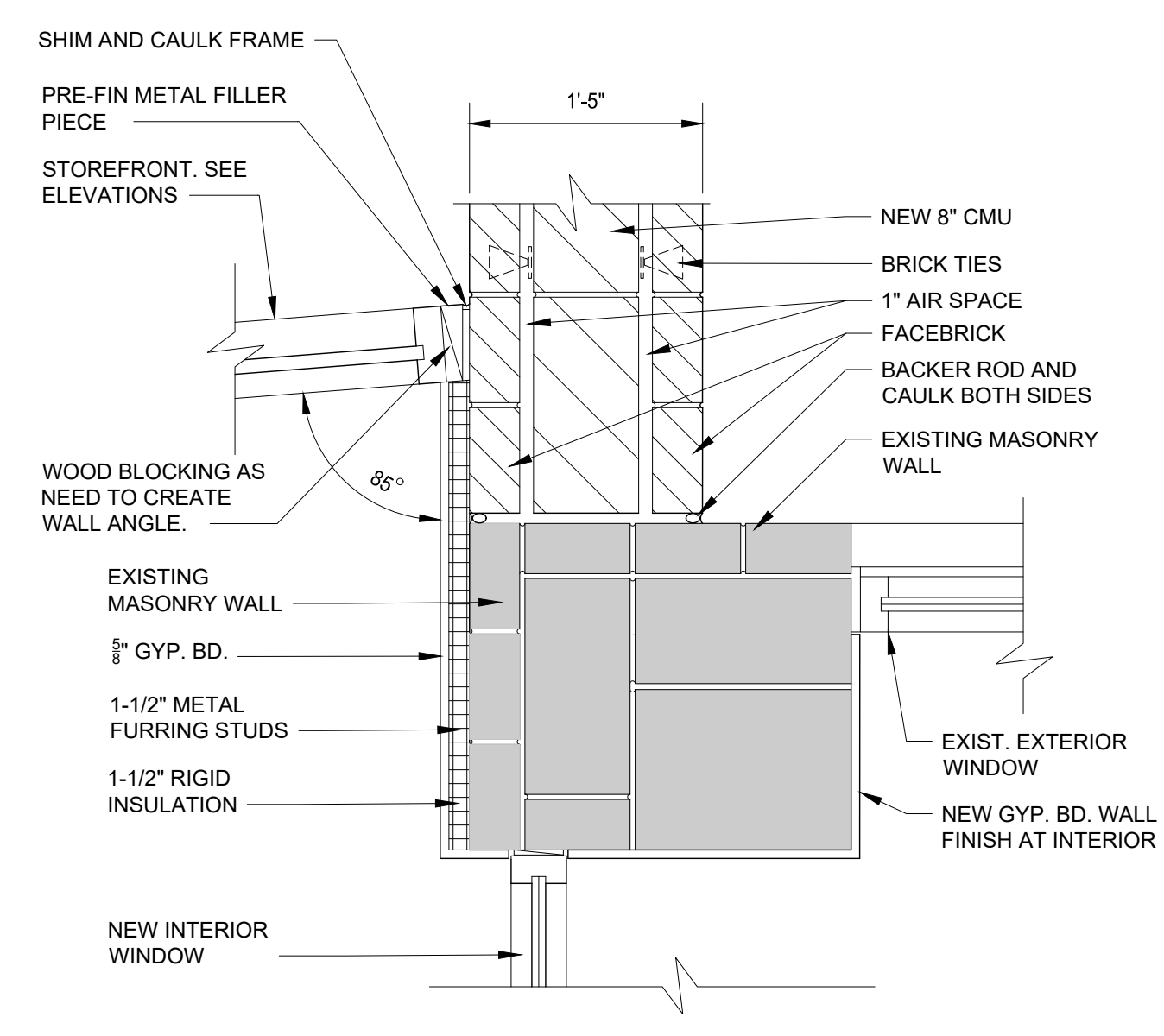
**3 PLAN DETAIL**  
SCALE: 1" = 1'-0"



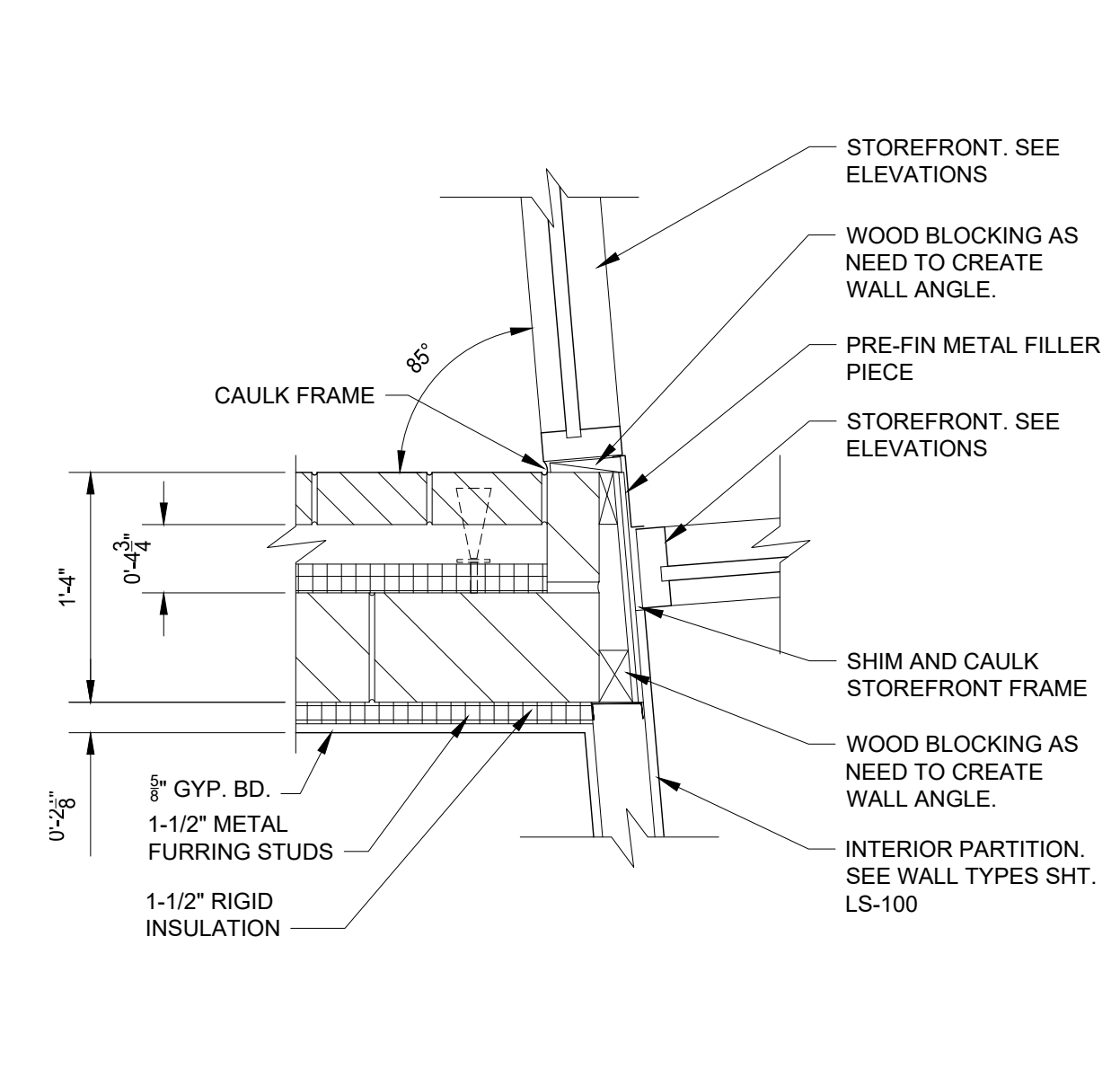
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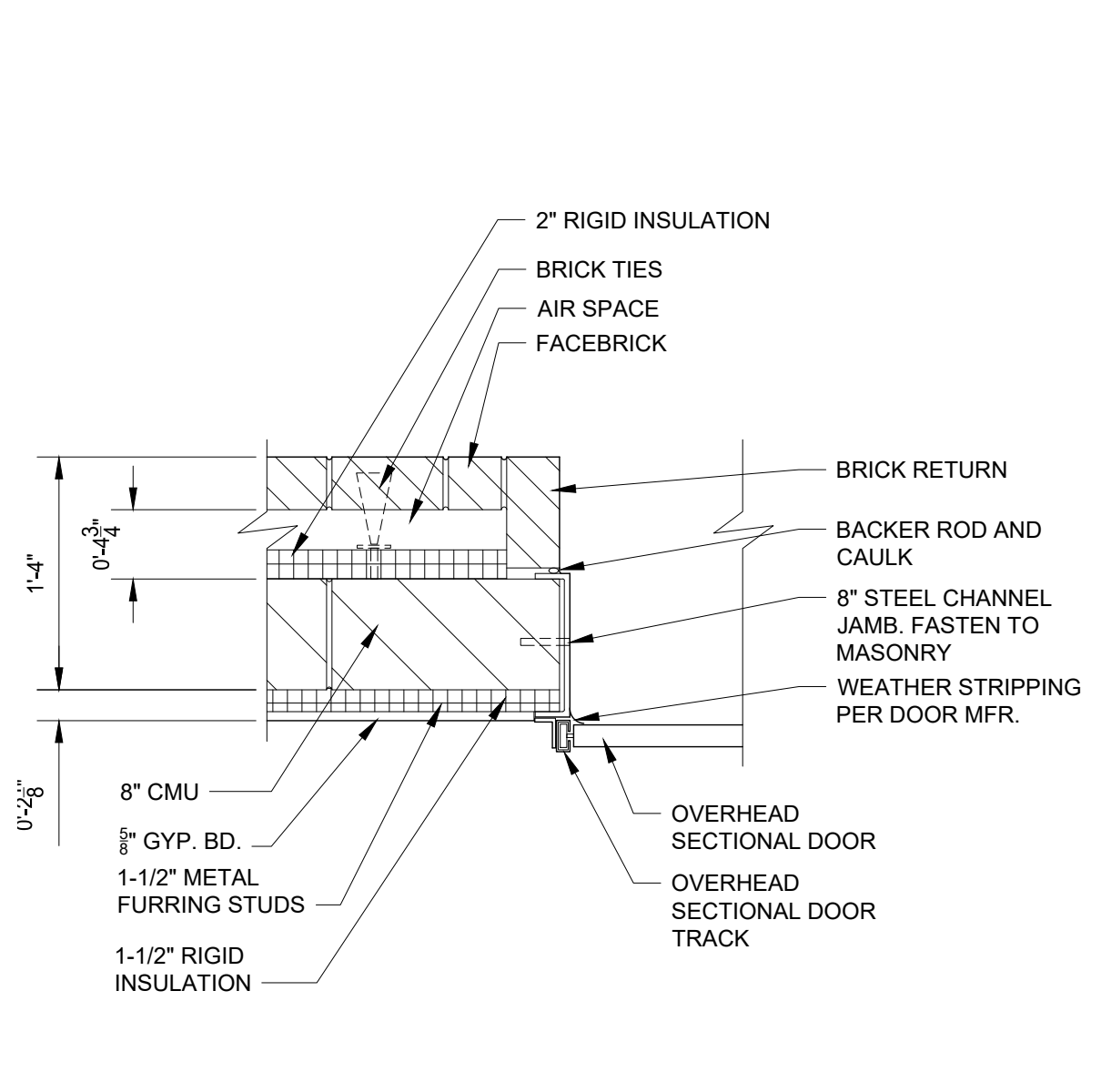
**1 PLAN DETAIL**  
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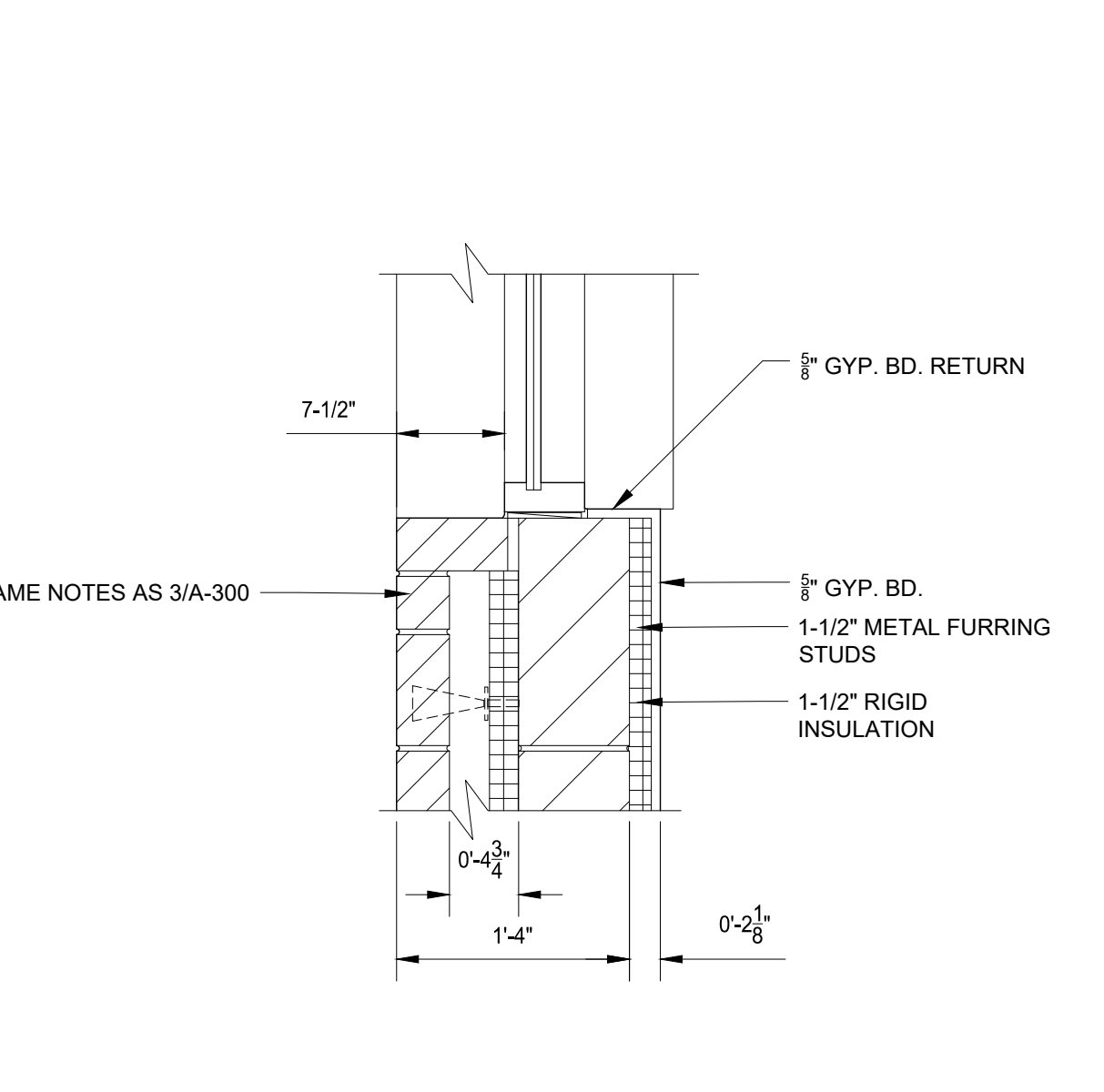
**10 PLAN DETAIL**  
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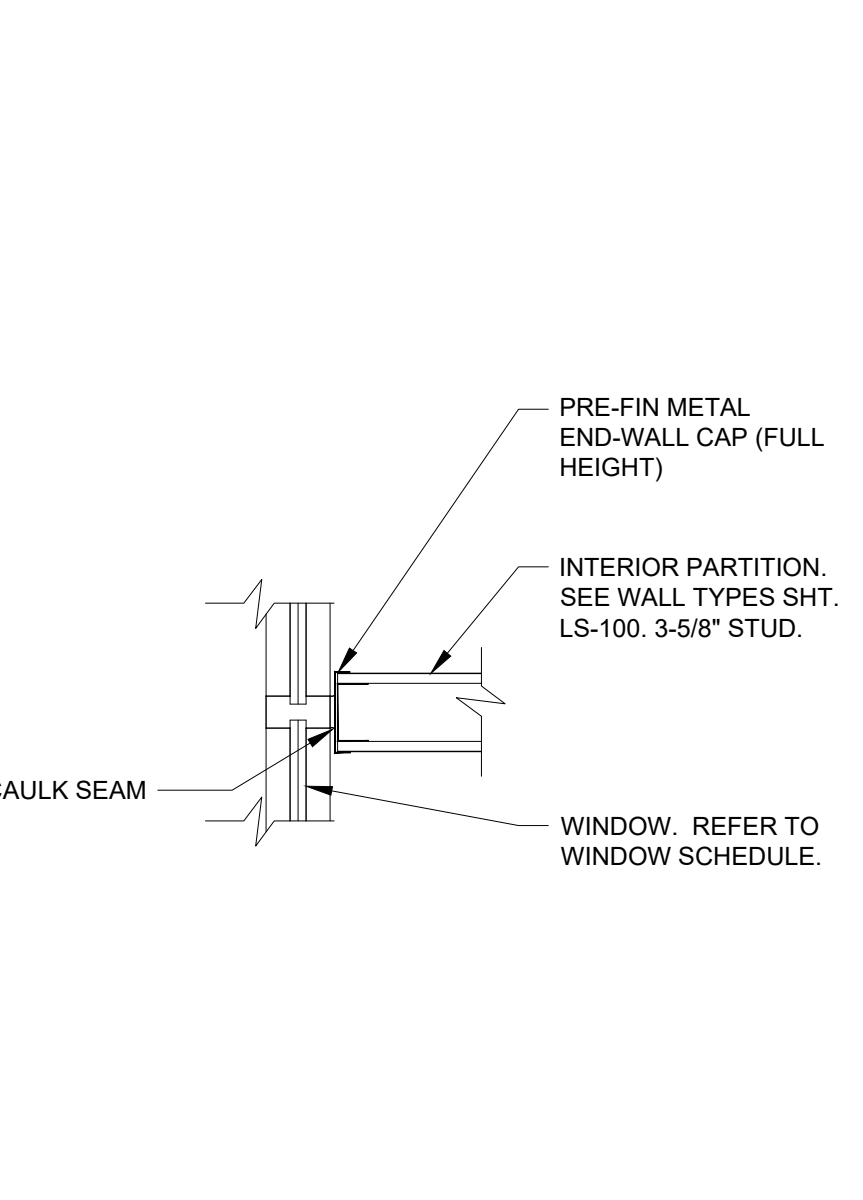
**9 PLAN DETAIL**  
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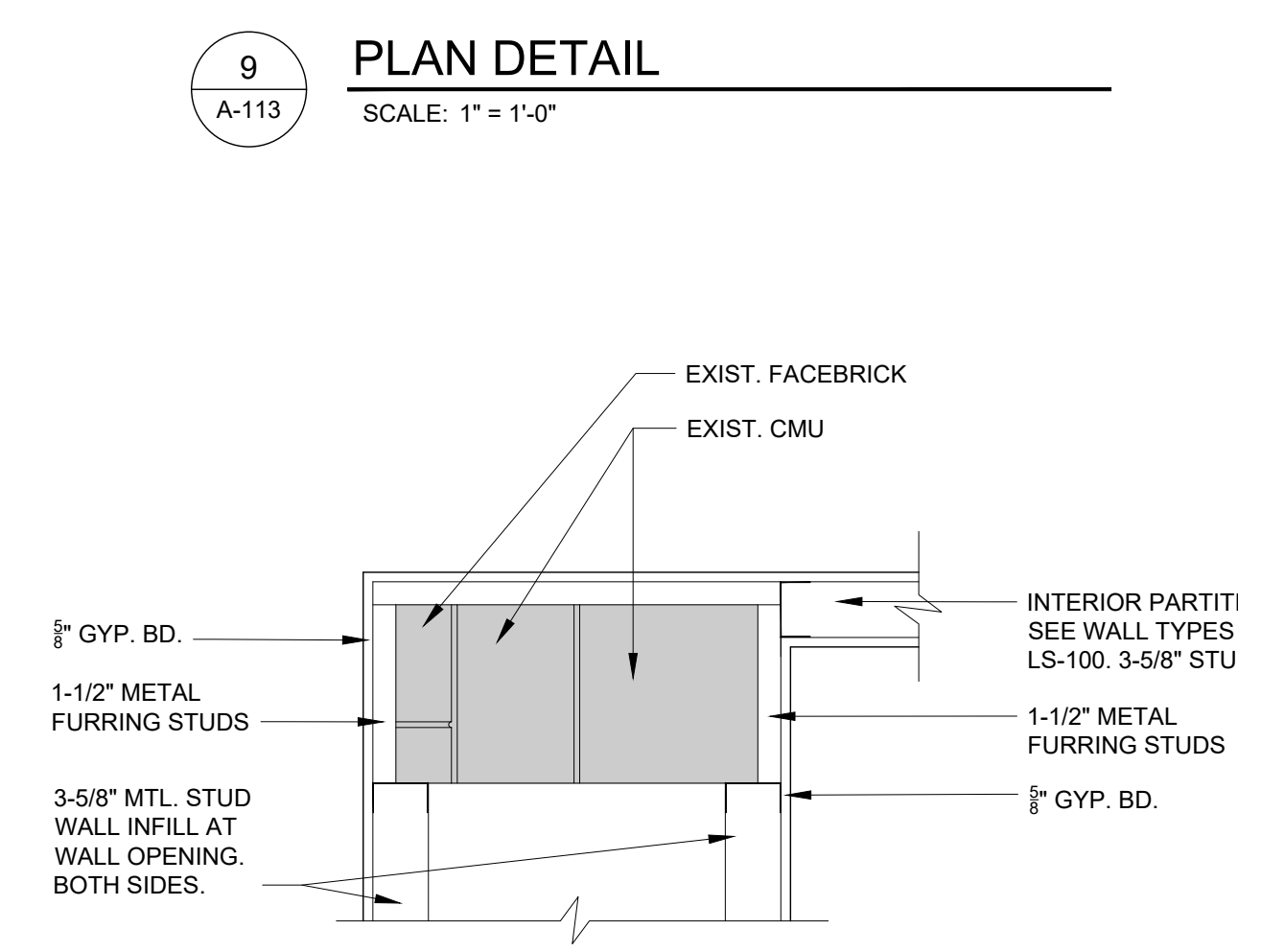
**8 PLAN DETAIL**  
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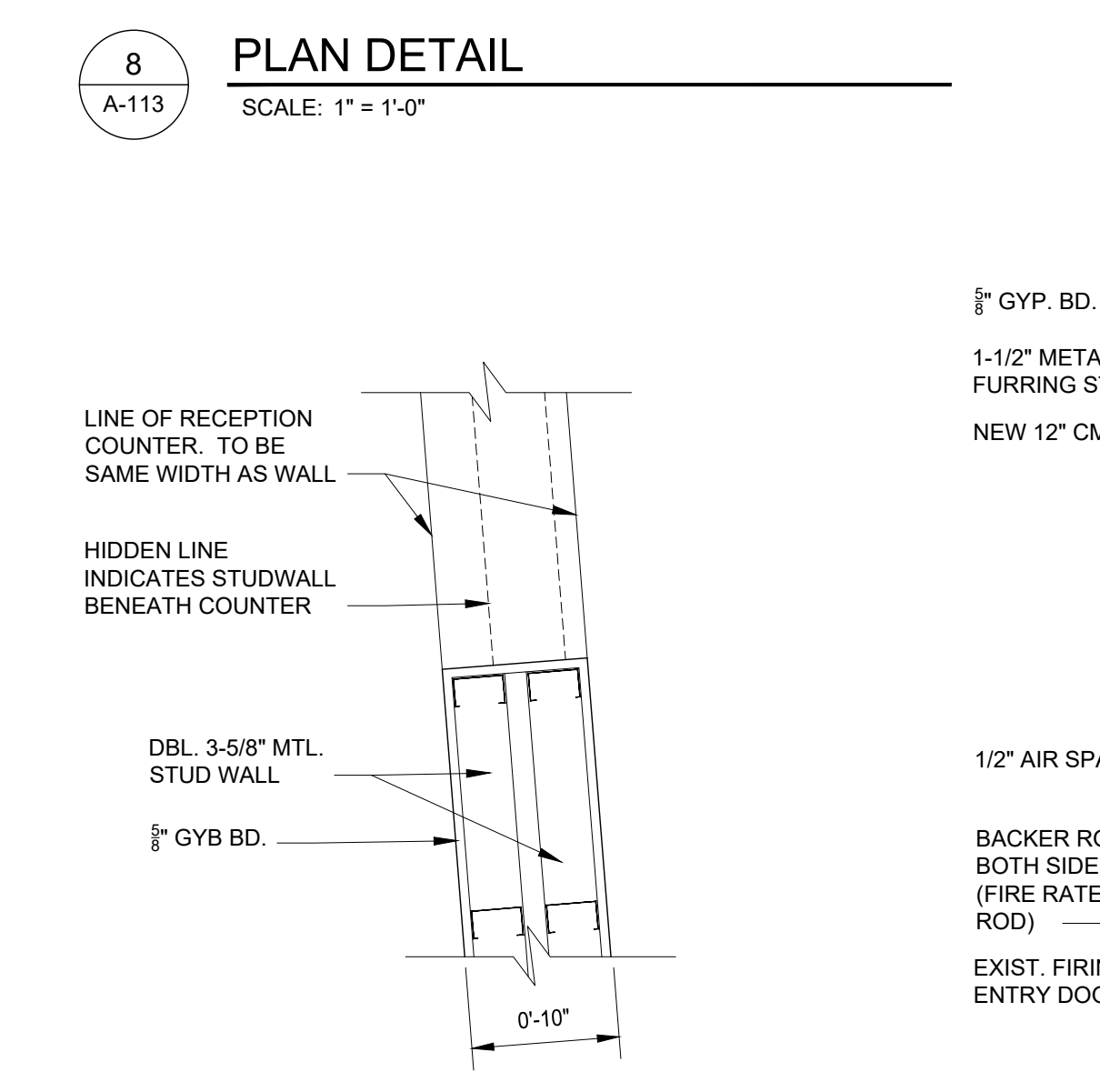
**7 PLAN DETAIL**  
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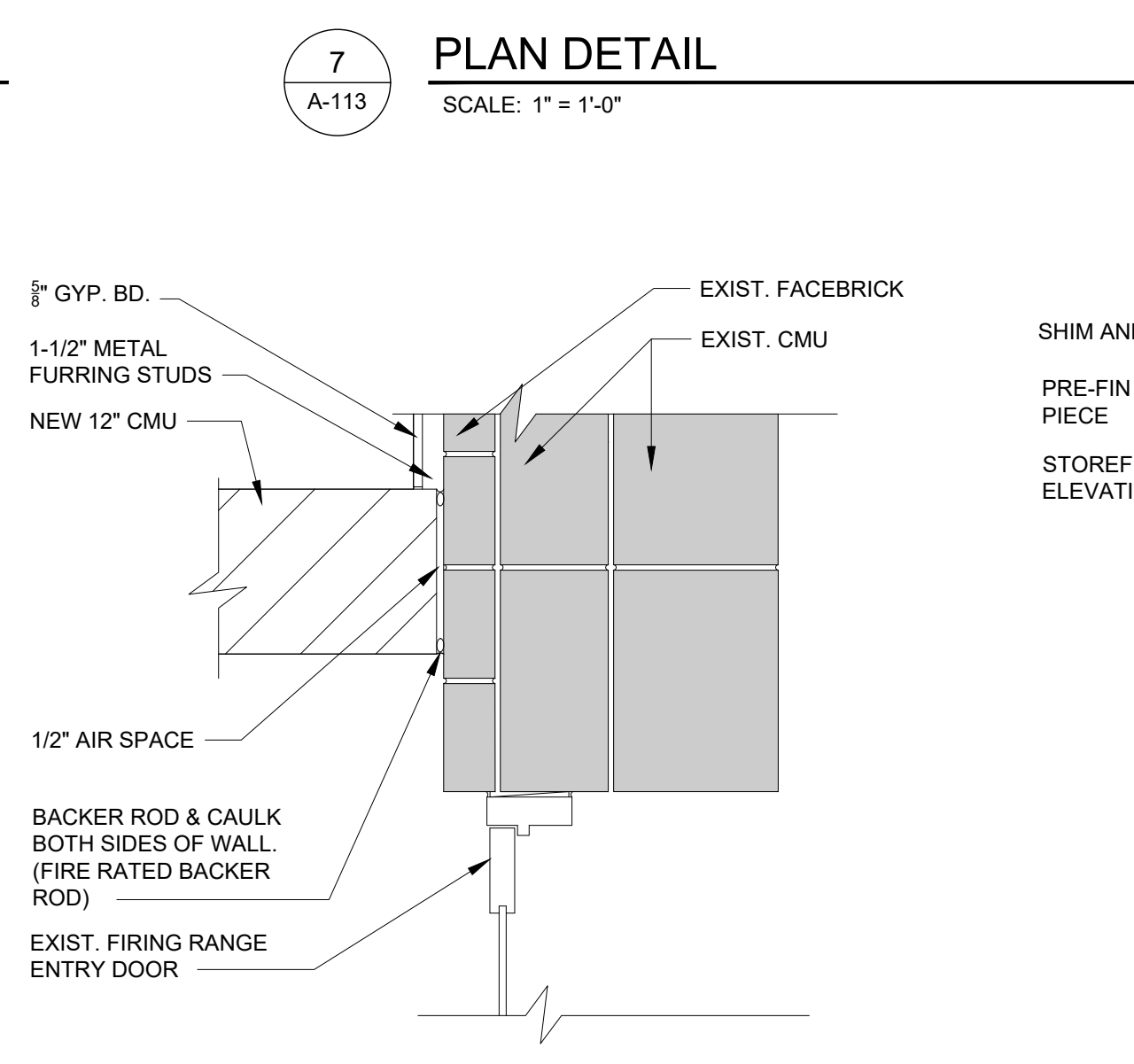
**6 PLAN DETAIL**  
SCALE: 1" = 1'-0"



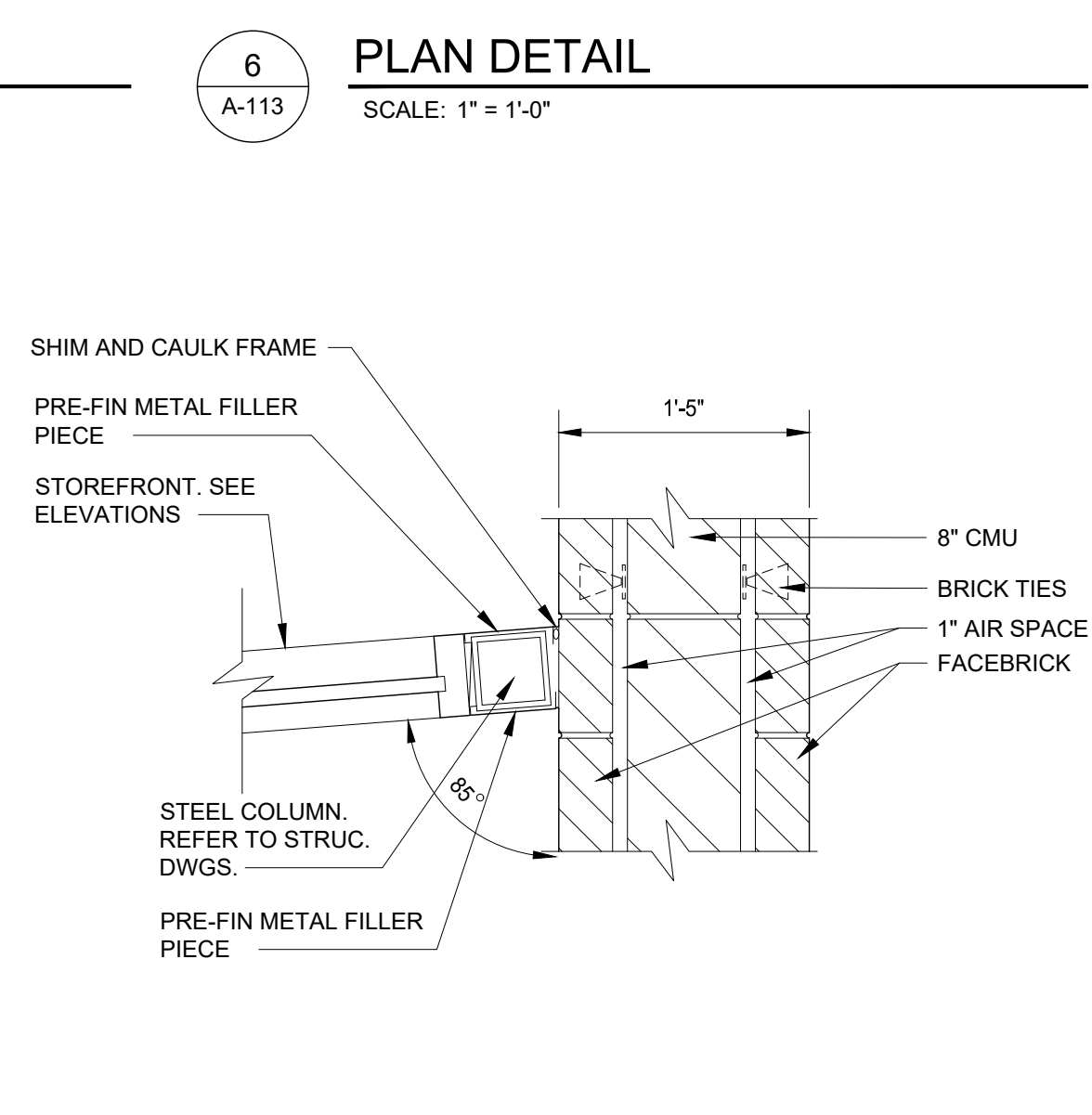
**14 PLAN DETAIL**  
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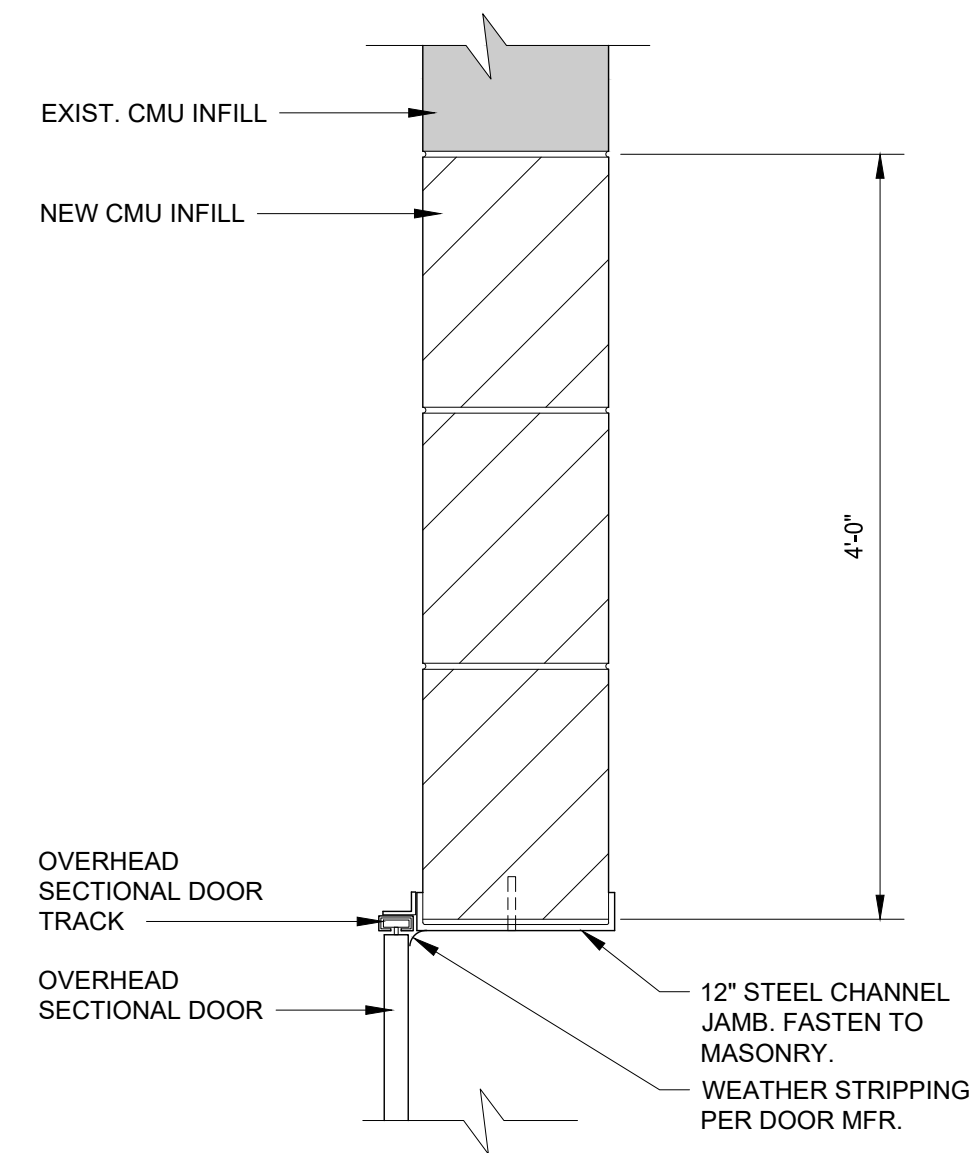
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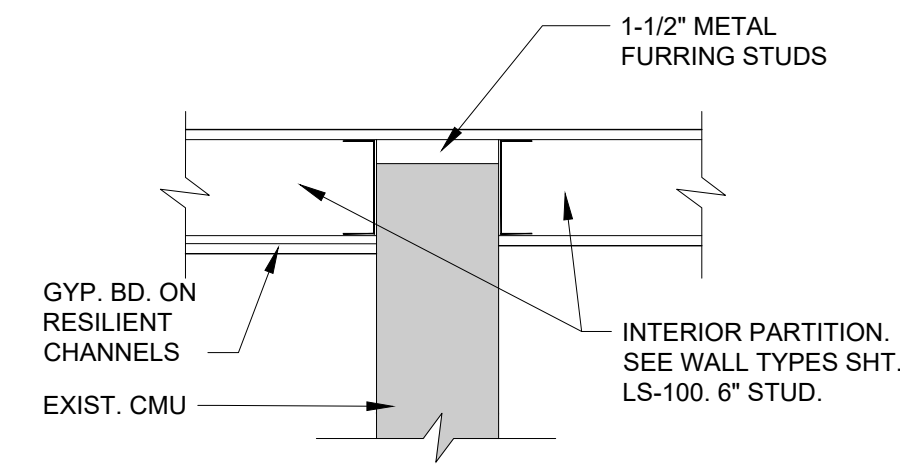
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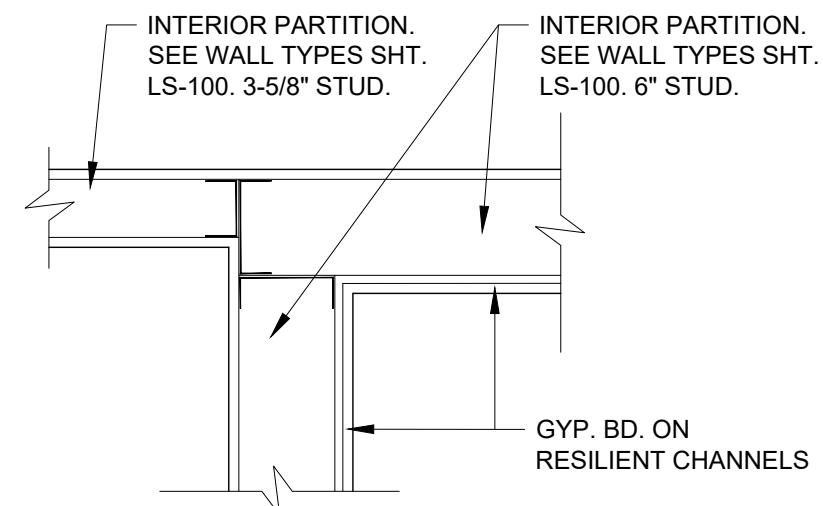
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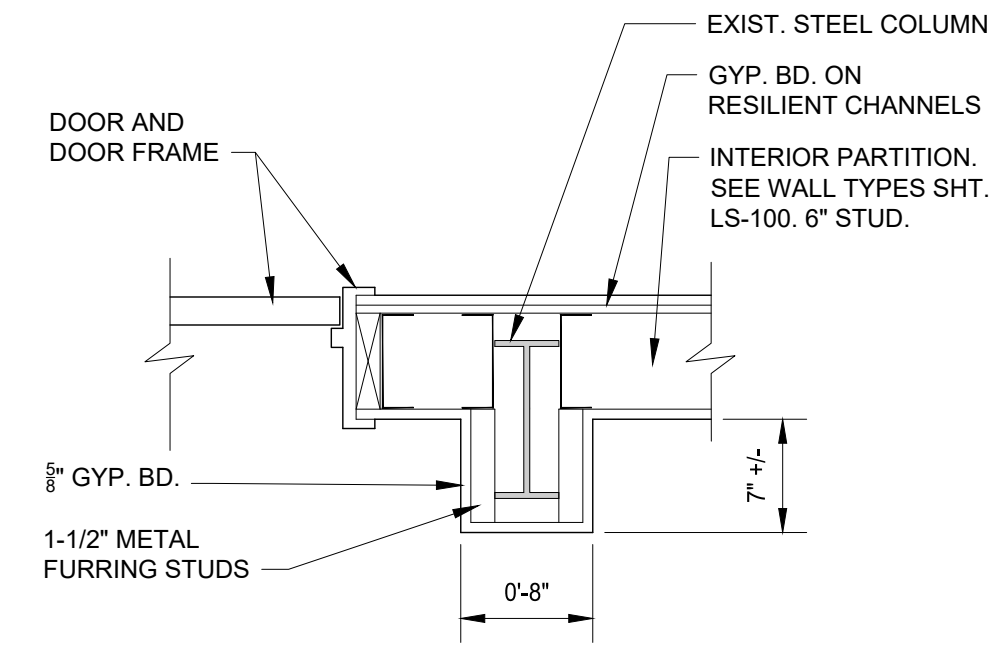
5 PLAN DETAIL  
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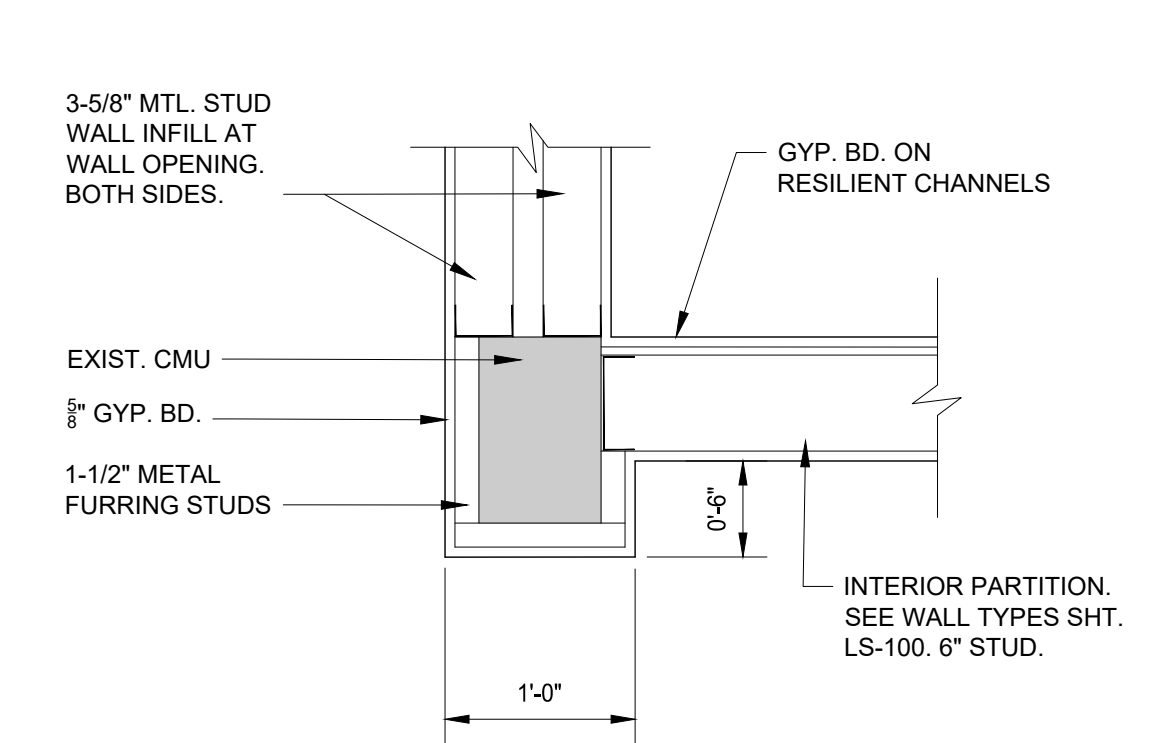
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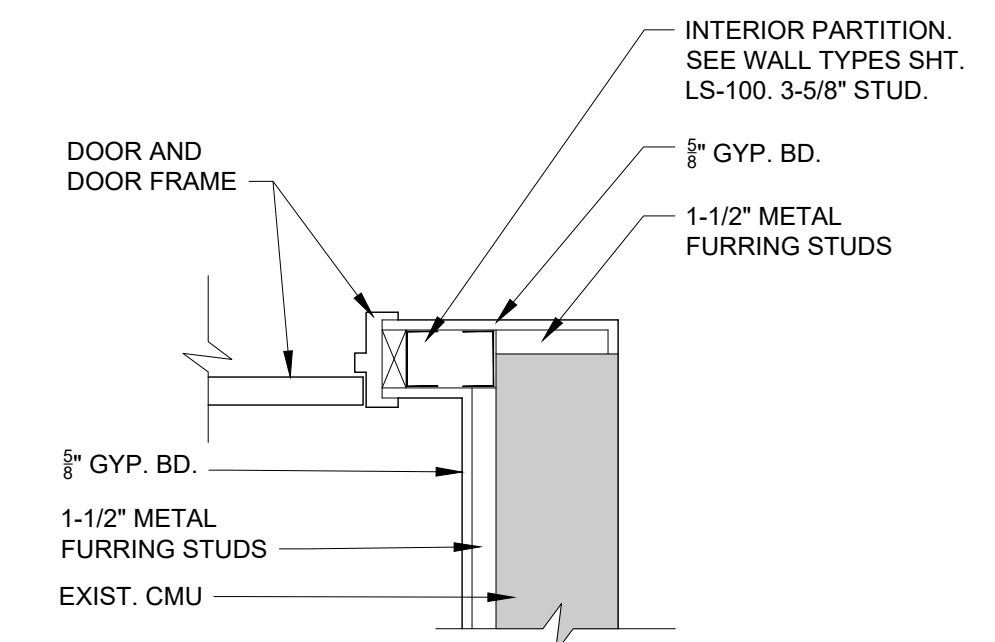
3 PLAN DETAIL  
SCALE: 1" = 1'-0"



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



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



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

GENERAL NOTES:

- A. REFER TO LS-100 WALL TYPE INFORMATION. WALL CAVITY INSULATION NOT SHOWN THIS SHEET.
- B. REFER TO STRUCTURAL DRAWINGS FOR MASONRY WALL INFORMATION.



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Taylor, MI 48180

Project:

City of Taylor  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
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Seal:



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Checked: WD  
Approved: MR

Sheet Title:  
**PLAN DETAILS**

Project Number: 22712.A

Sheet Number: **A-301**

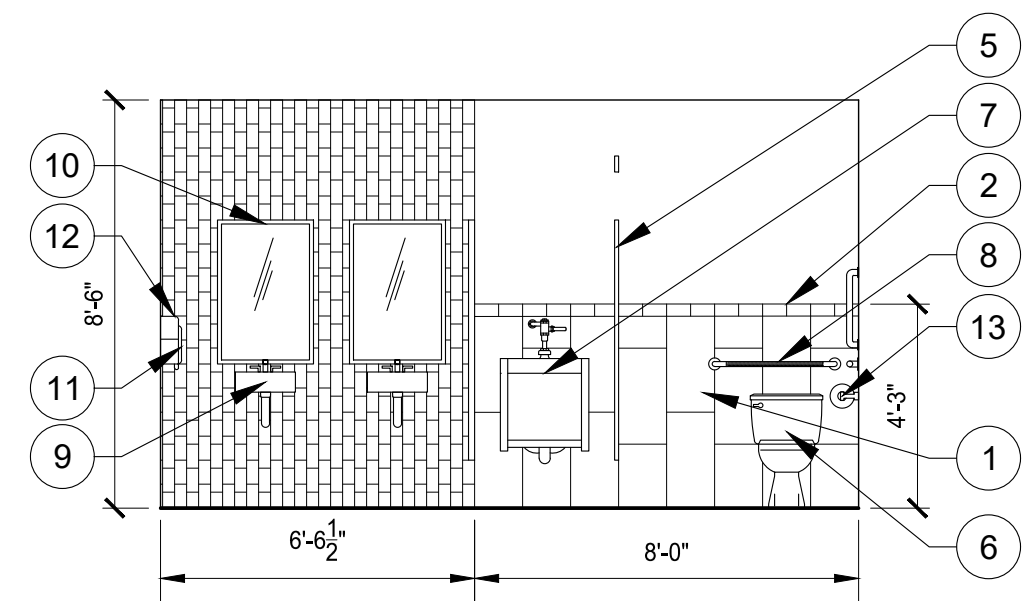
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**GENERAL NOTES**

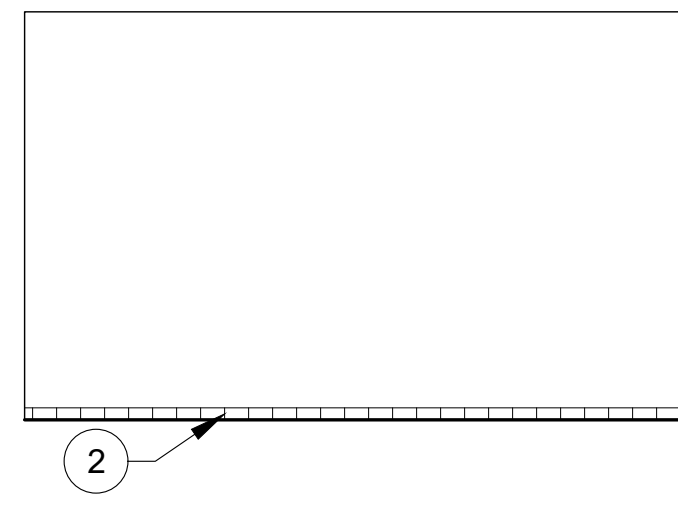
A. ELECTRICAL OUTLETS & SWITCHES NOT SHOWN ON ELEVATIONS. REFER TO ELECTRICAL PLANS FOR LOCATIONS OF SUCH DEVICES. REFER TO CS-002 FOR TYPICAL MOUNTING HEIGHTS.

B. REFER TO ROOM SCHEDULE FOR WALL FINISHES.

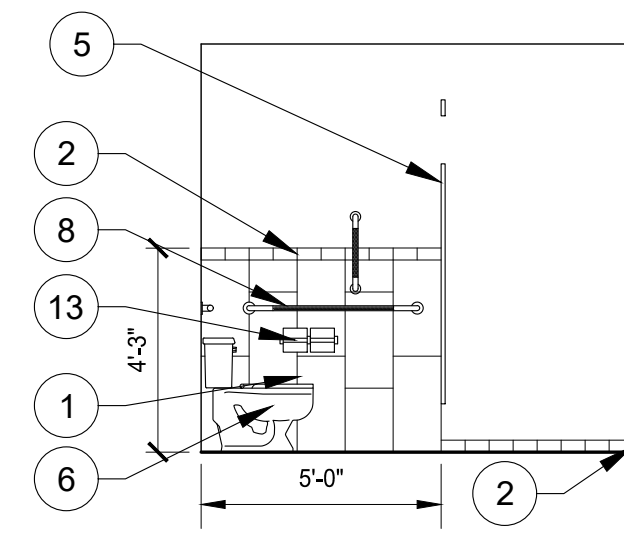
- ELEVATION NOTES**
- 1 2'-0" X 1'-0" WALL TILE
  - 2 0'-3" X 0'-6" WALL TILE
  - 3 DOOR & FRAME. REFER TO DOOR SCHEDULE
  - 4 PREFAB SHOWER
  - 5 TOILET PARTITIONS
  - 6 TOILET
  - 7 URINAL
  - 8 GRAB BARS
  - 9 SINK
  - 10 MIRROR
  - 11 SOAP DISPENSER
  - 12 PAPER TOWEL DISPENSER
  - 13 TOILET PAPER DISPENSER
  - 14 SANITARY NAPKIN DISPOSAL



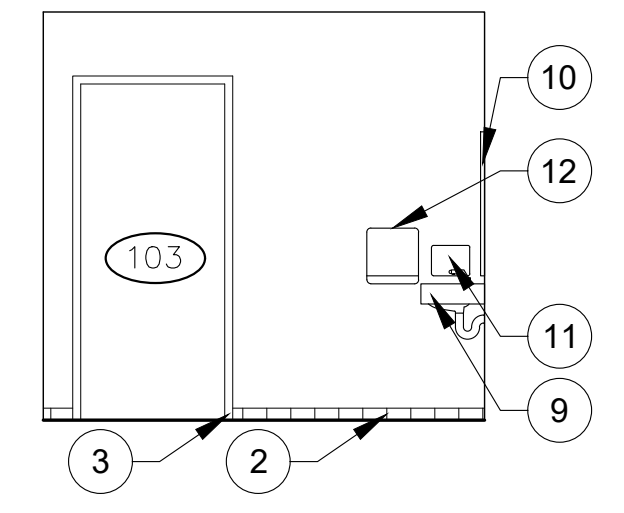
20 103 MEN'S INTERIOR ELEVATION  
A-113 SCALE: 1/4" = 1'-0"



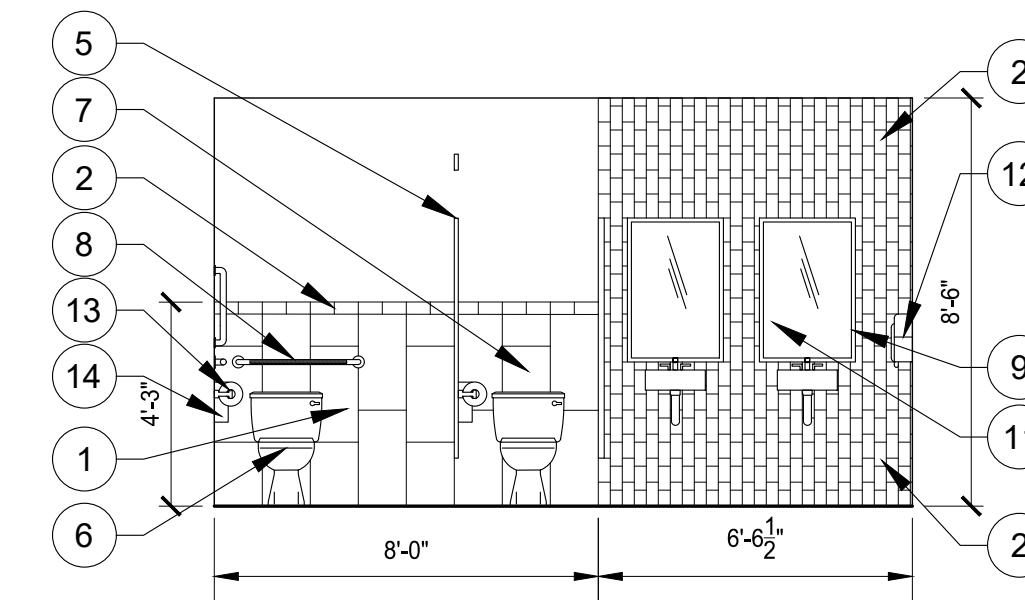
19 103 MEN'S INTERIOR ELEVATION  
A-113 SCALE: 1/4" = 1'-0"



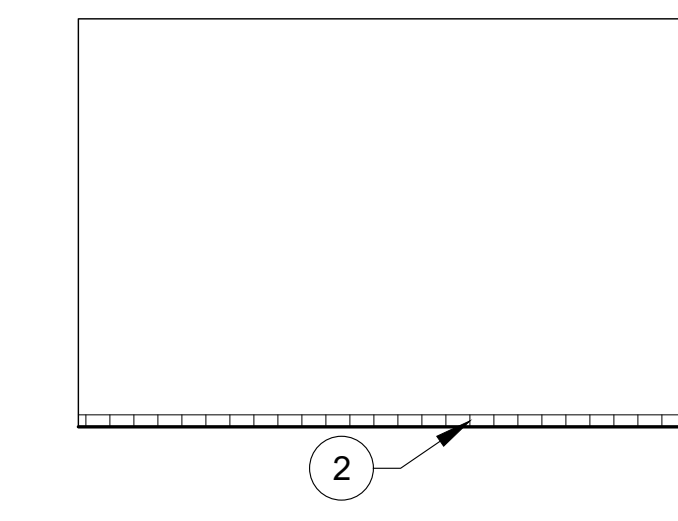
18 103 MEN'S INTERIOR ELEVATION  
A-113 SCALE: 1/4" = 1'-0"



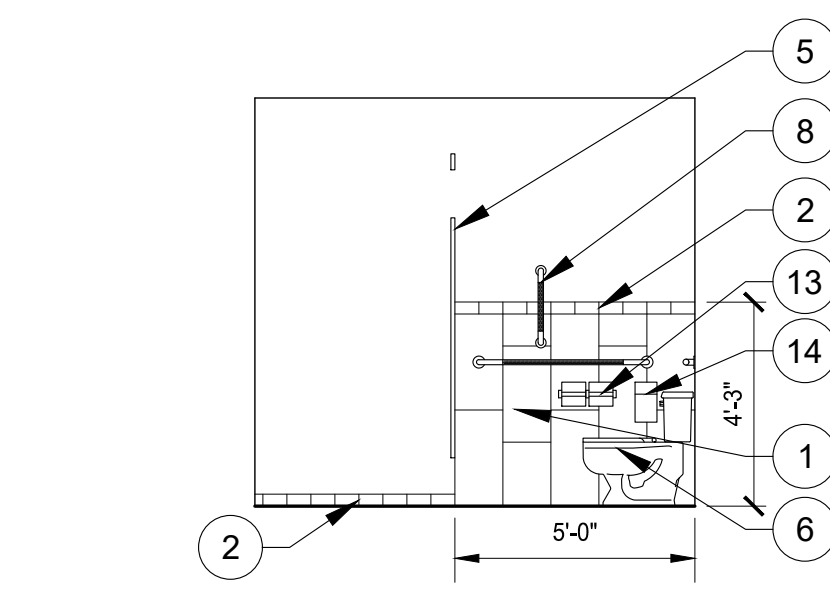
17 103 MEN'S INTERIOR ELEVATION  
A-113 SCALE: 1/4" = 1'-0"



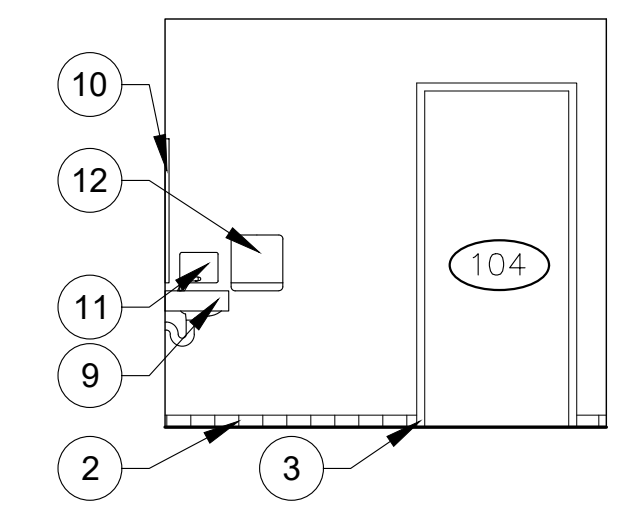
16 104 WOMEN'S INTERIOR ELEVATION  
A-113 SCALE: 1/4" = 1'-0"



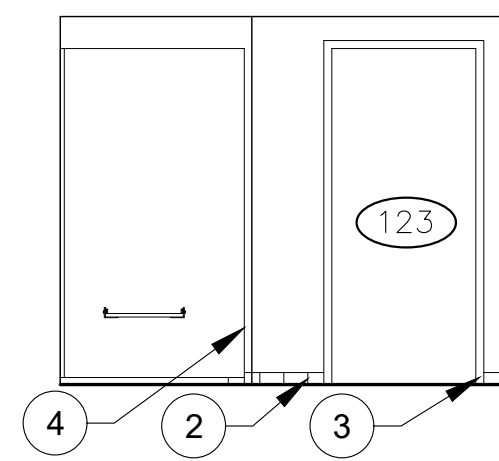
15 104 WOMEN'S INTERIOR ELEVATION  
A-113 SCALE: 1/4" = 1'-0"



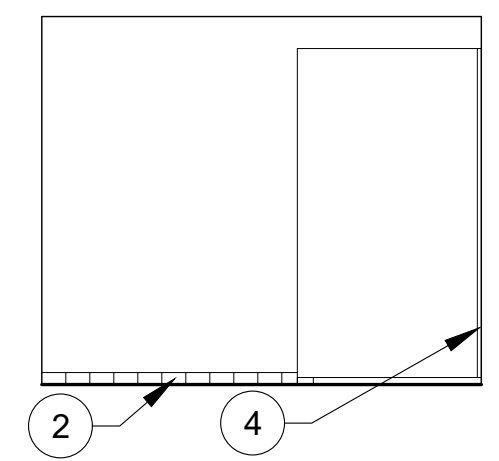
14 123 104 WOMEN'S INTERIOR ELEVATION  
A-113 SCALE: 1/4" = 1'-0"



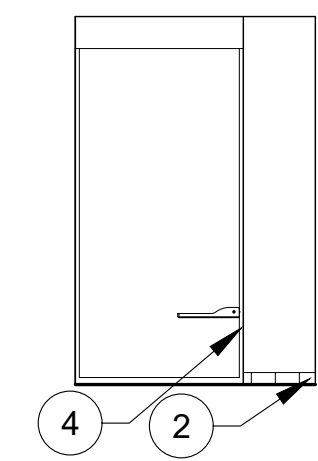
13 104 WOMEN'S INTERIOR ELEVATION  
A-113 SCALE: 1/4" = 1'-0"



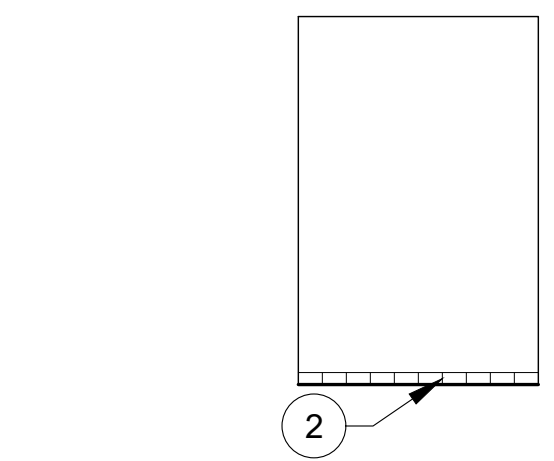
12 123 SHOWER INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



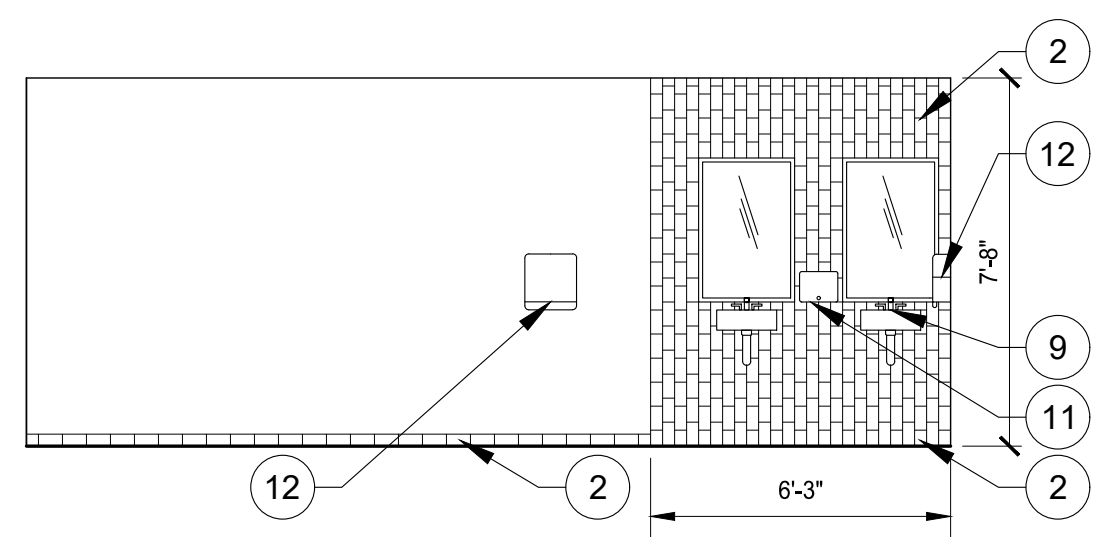
11 123 SHOWER INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



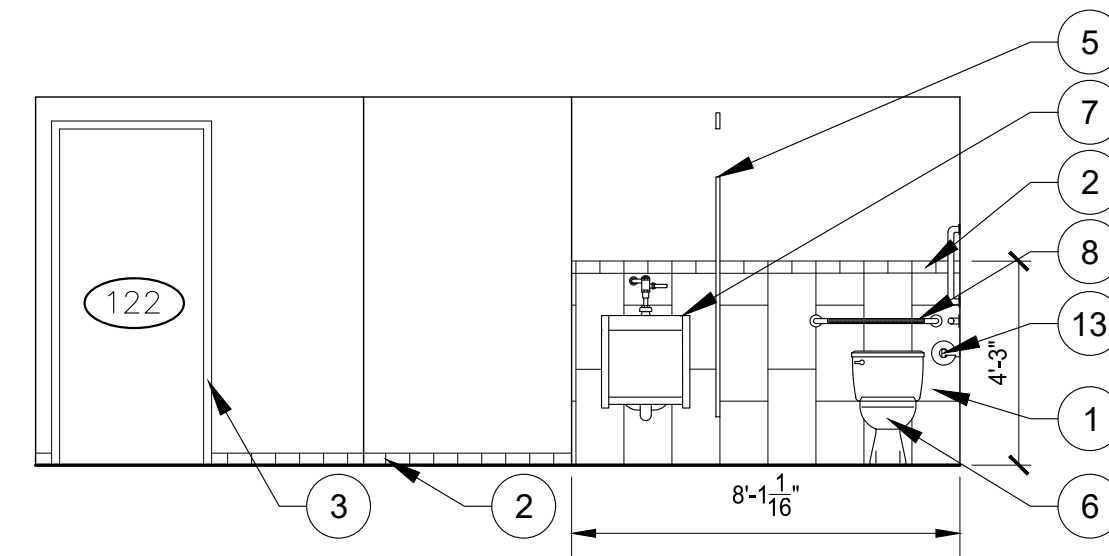
10 123 SHOWER INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



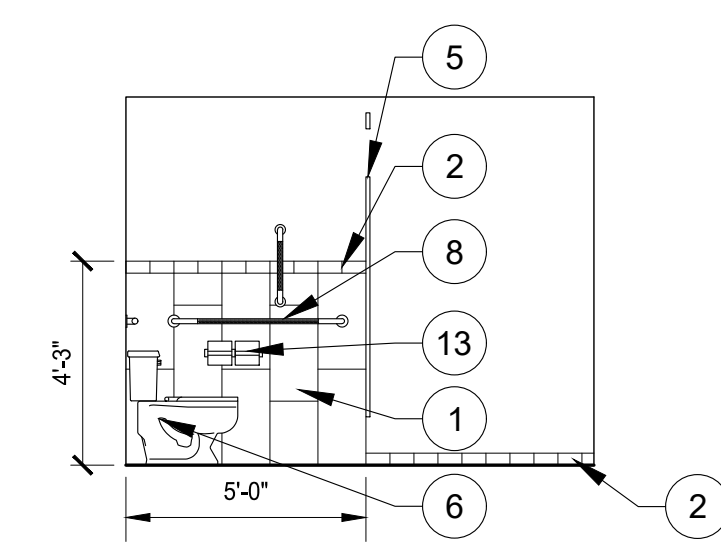
9 123 SHOWER INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



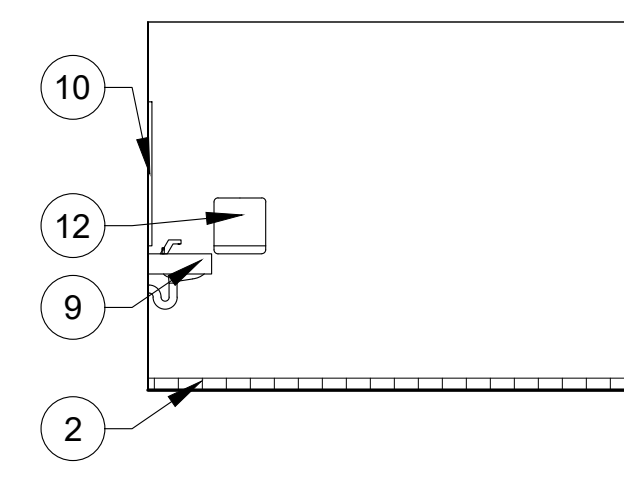
8 122 MEN'S INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



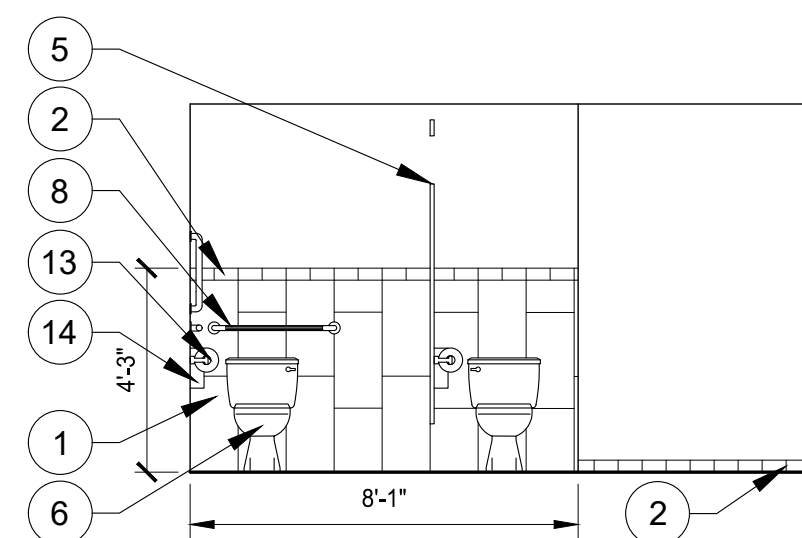
7 122 MEN'S INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



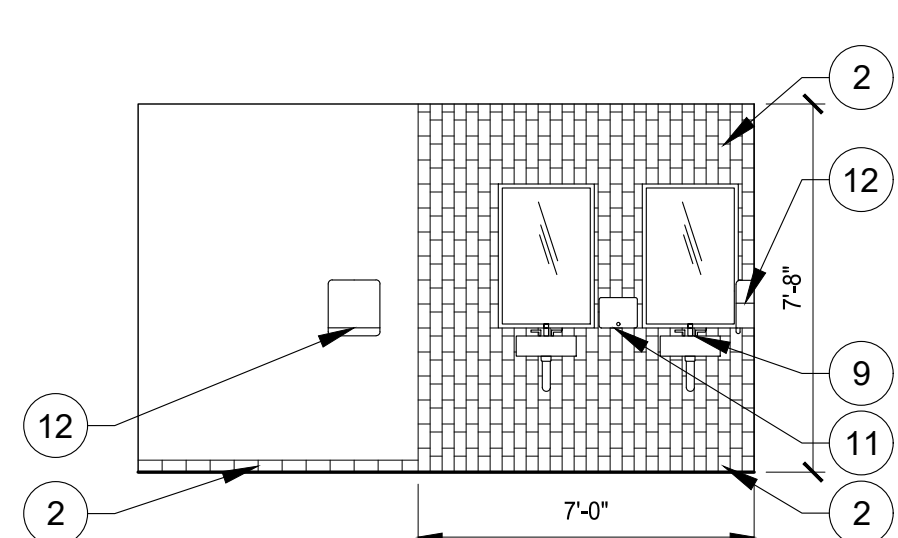
6 122 MEN'S INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



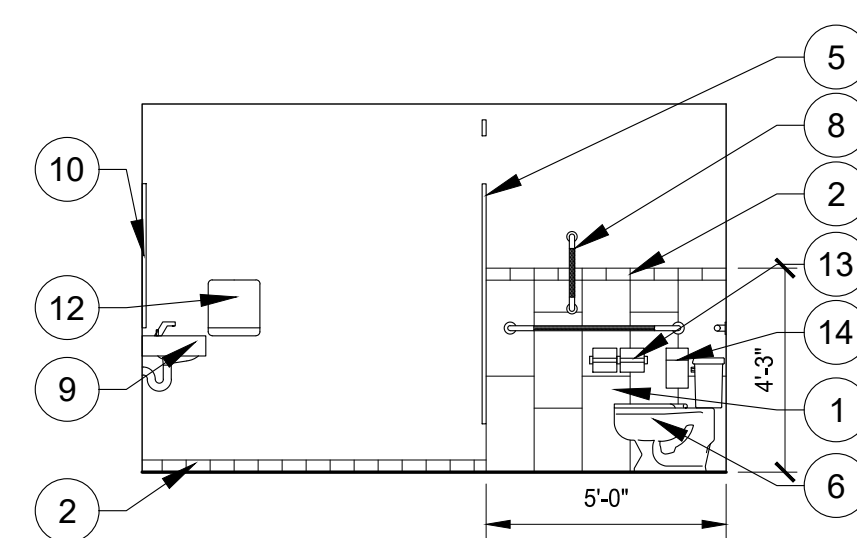
5 122 MEN'S INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



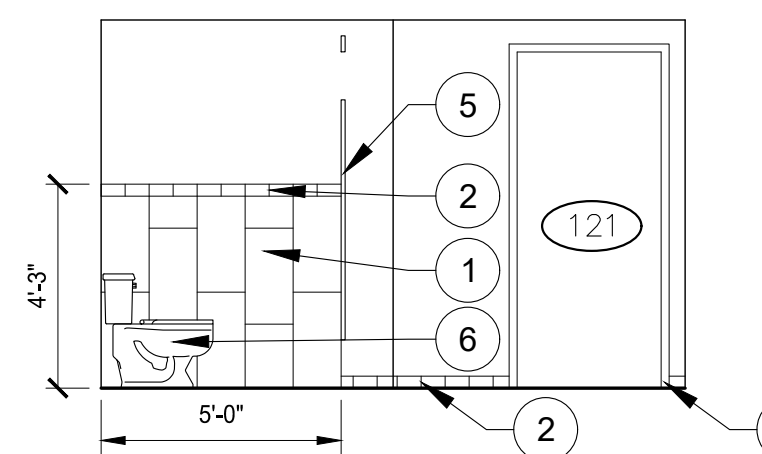
4 121 WOMEN'S INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



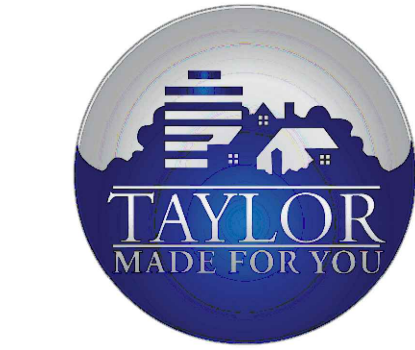
3 121 WOMEN'S INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



2 121 WOMEN'S INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



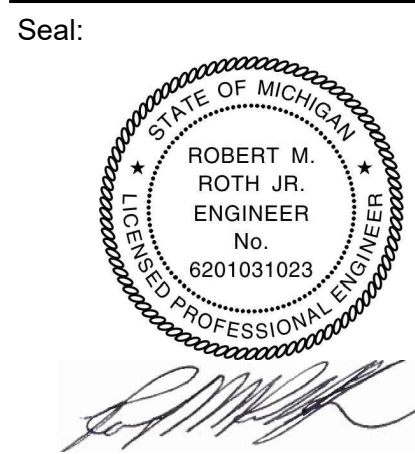
1 121 WOMEN'S INTERIOR ELEVATION  
A-114 SCALE: 1/4" = 1'-0"



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Checked: WD  
Approved: MR

Sheet Title:  
**INTERIOR ELEVATIONS**

Project Number: **22712.A**

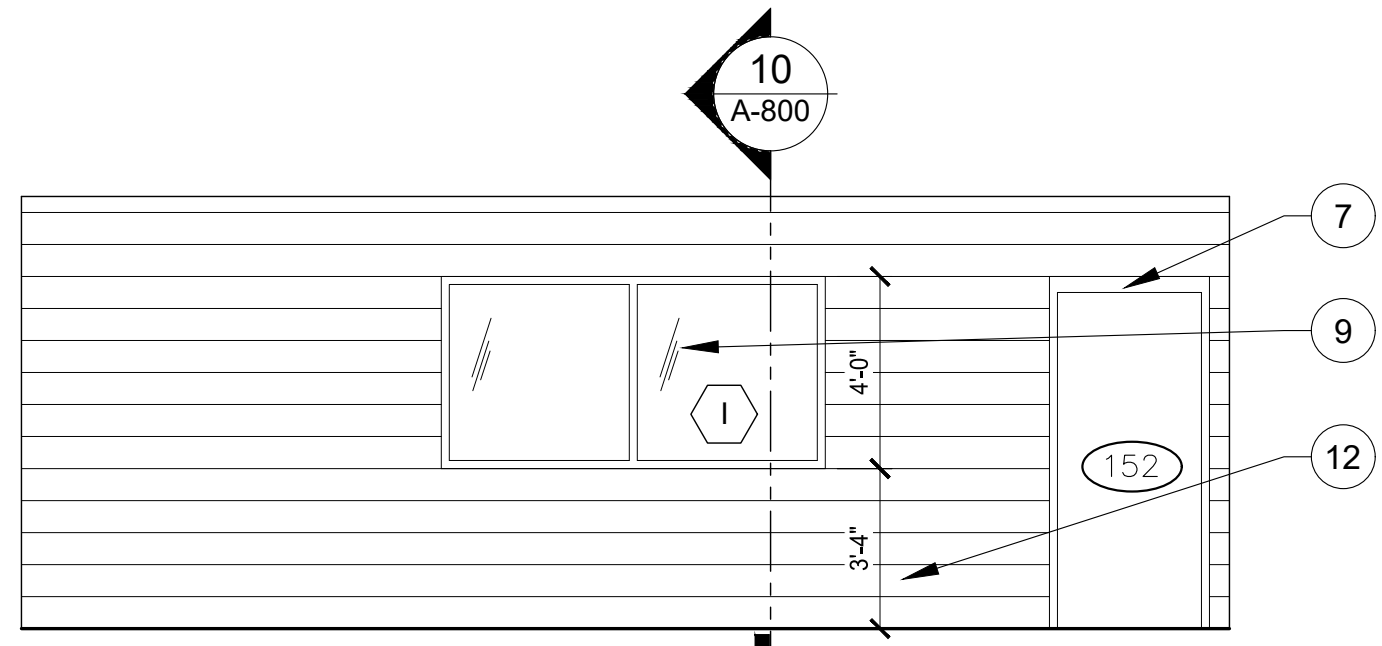
Sheet Number: **A-400**

**GENERAL NOTES**

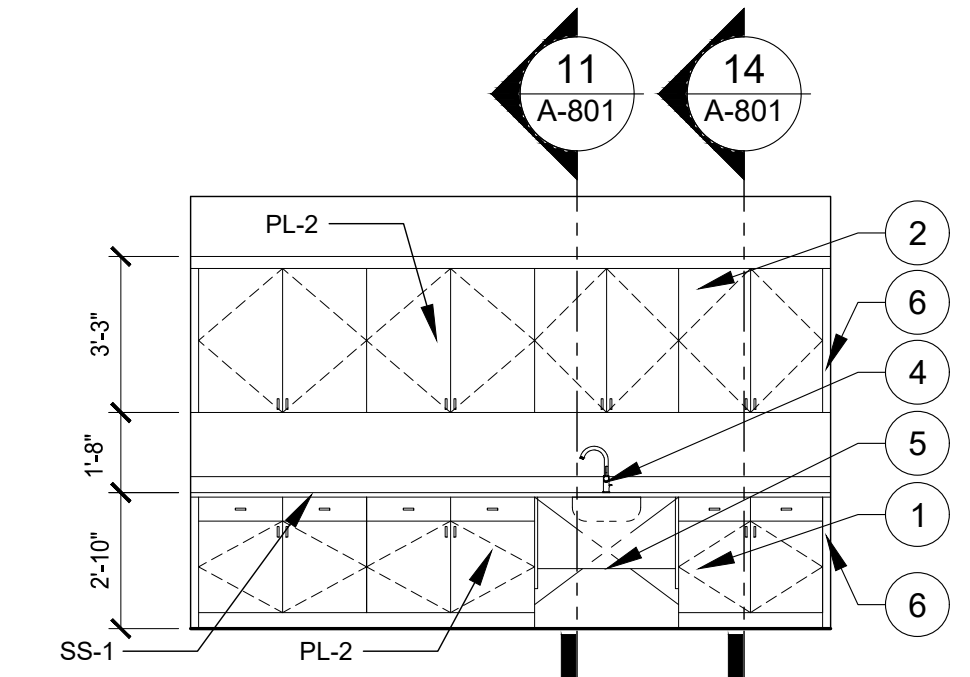
A. ELECTRICAL OUTLETS & SWITCHES NOT SHOWN ON ELEVATIONS. REFER TO ELECTRICAL PLANS FOR LOCATIONS OF SUCH DEVICES.

B. REFER TO ROOM SCHEDULE FOR WALL FINISHES.

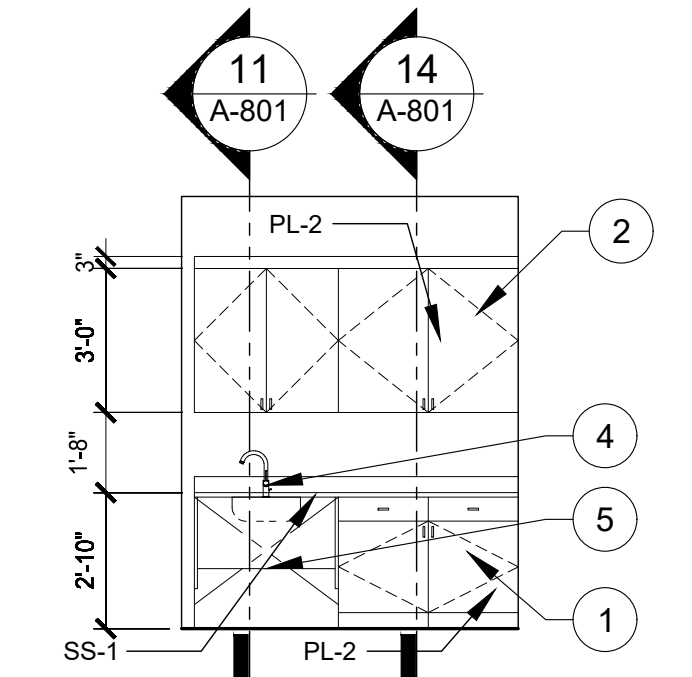
- ELEVATION NOTES**
- 1 BASE CABINETS.
  - 2 WALL CABINETS.
  - 3 COUNTERTOP & BACKSPASH.
  - 4 SINK & FAUCET.
  - 5 ADA COMPLIANT SINK VALANCE.
  - 6 MILLWORK FILLER.
  - 7 DOOR & FRAME. REFER TO DOOR SCHEDULE.
  - 8 COUNTERTOP SUPPORT BRACKET.
  - 9 INTERIOR WINDOW.
  - 10 COUNTER TOP.
  - 11 PROPOSED LOCATION OF WALL MOUNTED T.V.
  - 12 MASONRY WALL.
  - 13 WALL PROTECTION
  - 14 WALL BASE



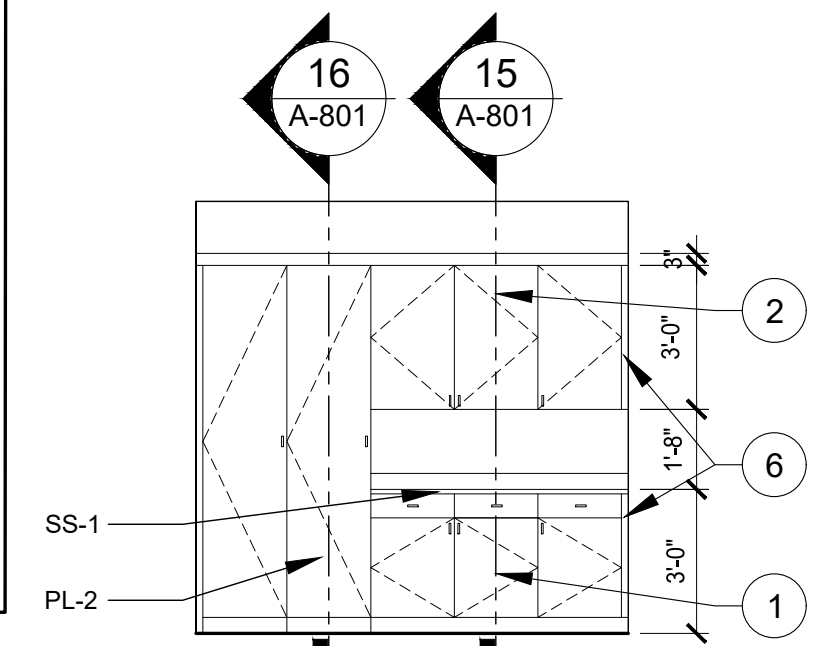
**147 QUARANTINE INTERIOR ELEVATION**  
 10 A-800  
 19 A-112 SCALE: 1/4" = 1'-0"



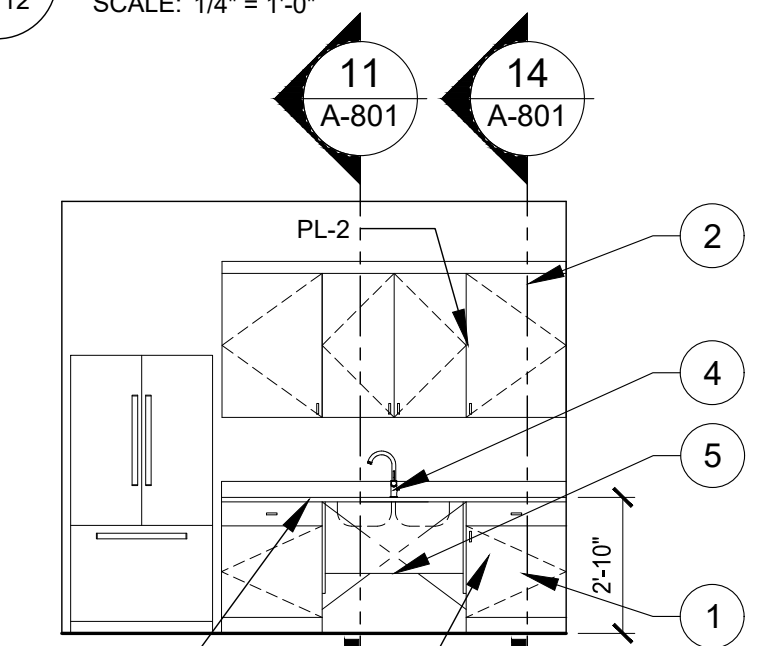
**145 CANINE FOOD PREP INTERIOR ELEVATION**  
 11 A-801 14 A-801  
 18 A-112 SCALE: 1/4" = 1'-0"



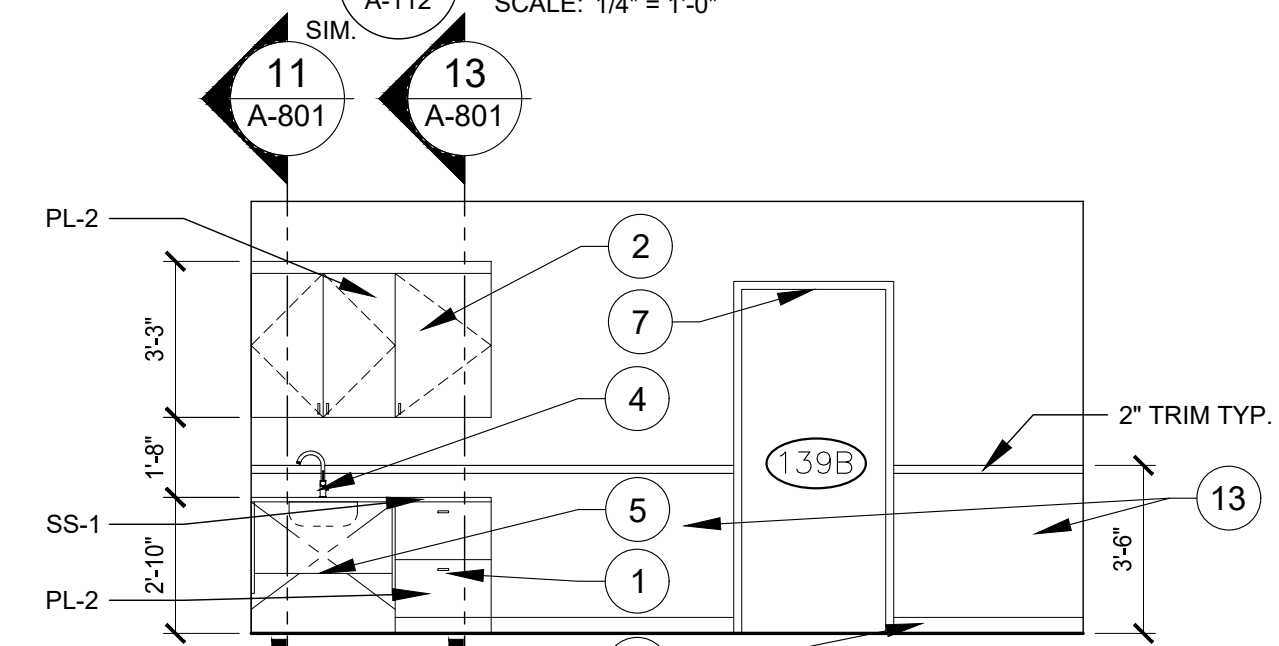
**149 CANINE KENNEL 1 INTERIOR ELEVATION**  
 11 A-801 14 A-801  
 17 A-112 SCALE: 1/4" = 1'-0"



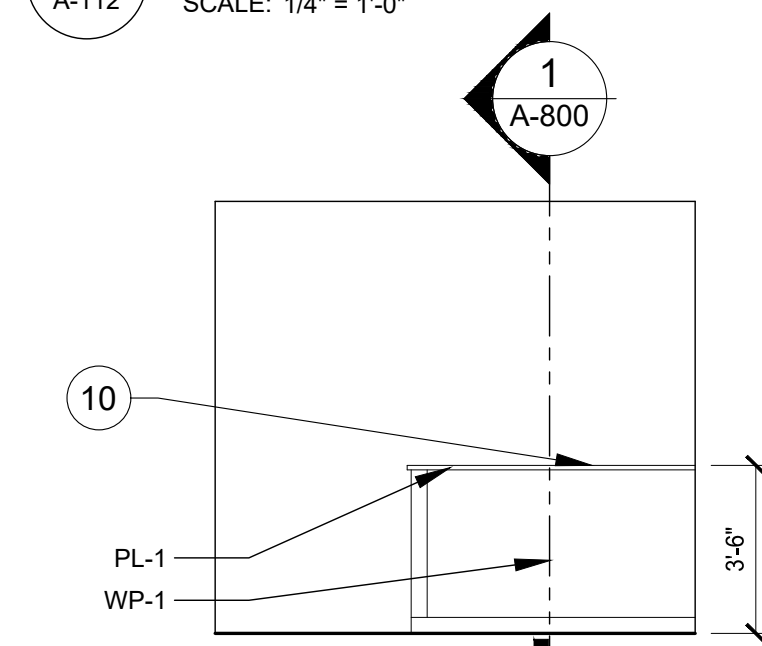
**120 HALLWAY INTERIOR ELEVATION**  
 16 A-801 15 A-801  
 16 A-114 SCALE: 1/4" = 1'-0"



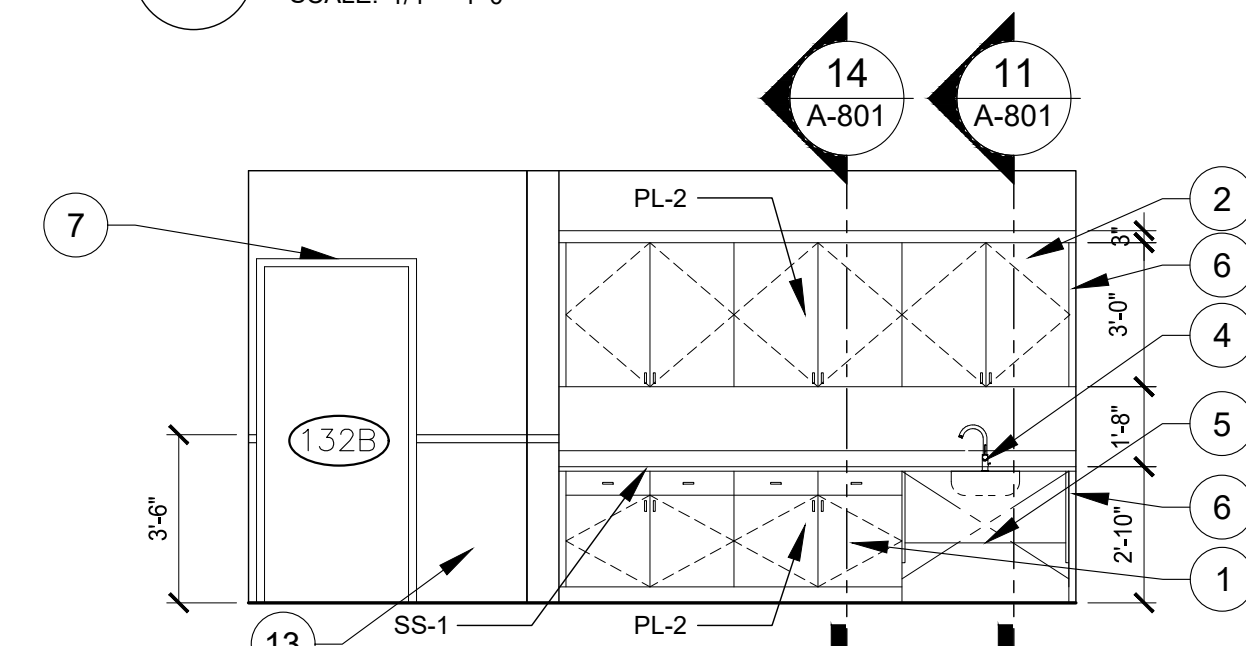
**142 VOLUNTEER ROOM INTERIOR ELEVATION**  
 11 A-801 14 A-801  
 15 A-114 SCALE: 1/4" = 1'-0"



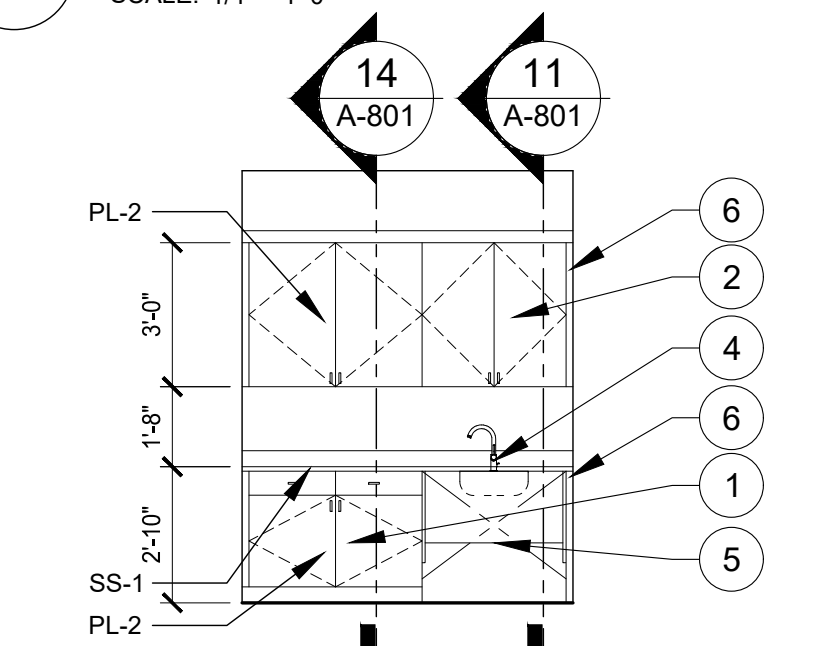
**139 EUTH. ROOM INTERIOR ELEVATION**  
 11 A-801 13 A-801  
 14 A-114 SCALE: 1/4" = 1'-0"



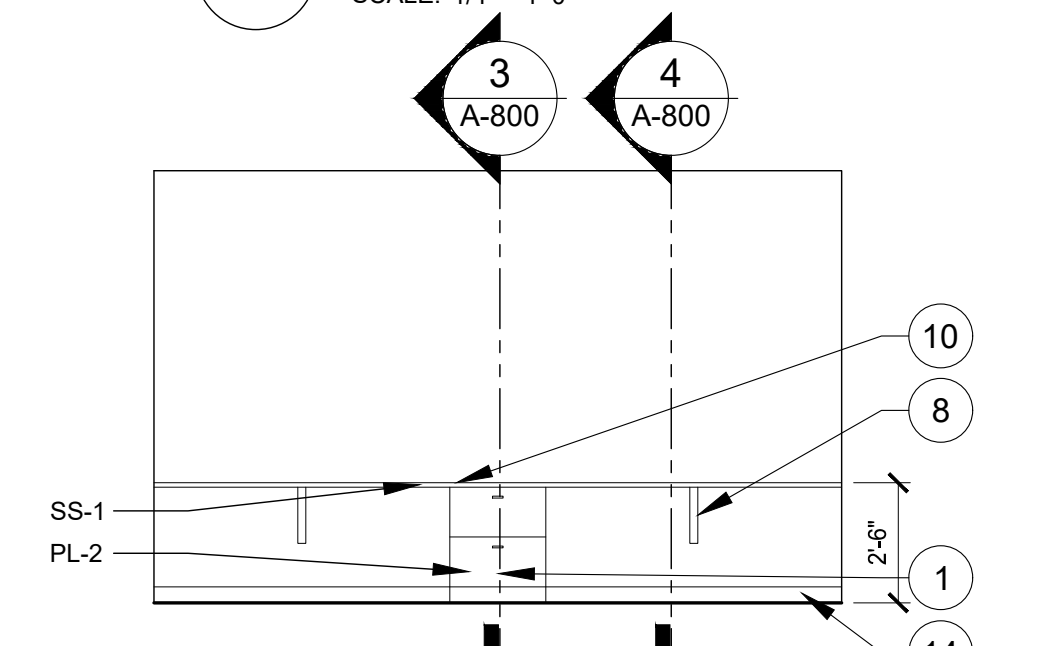
**132 INTAKE CHECK-IN INTERIOR ELEVATION**  
 1 A-800  
 13 A-114 SCALE: 1/4" = 1'-0"



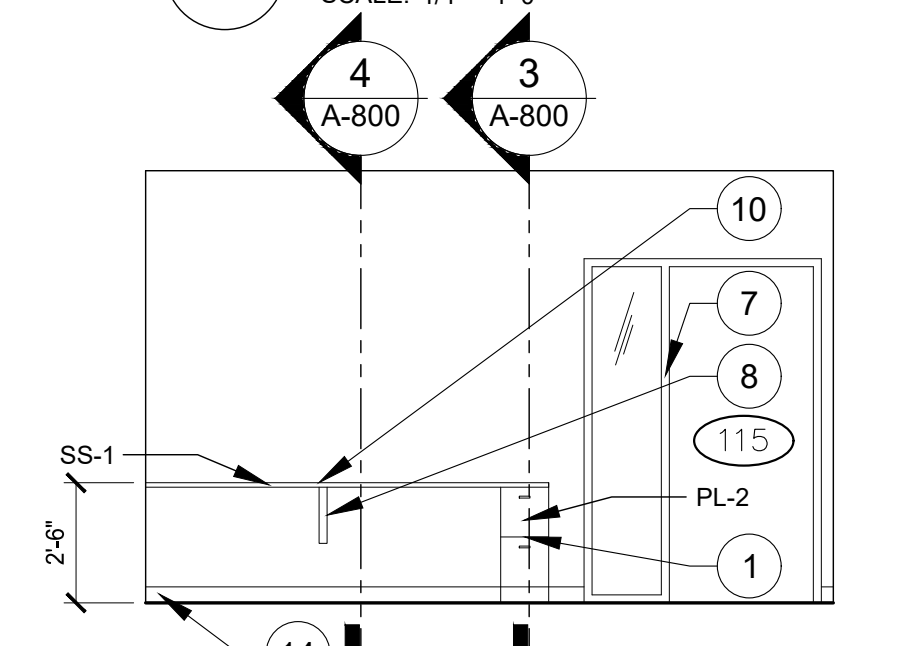
**132 INTAKE CHECK-IN INTERIOR ELEVATION**  
 14 A-801 11 A-801  
 12 A-114 SCALE: 1/4" = 1'-0"



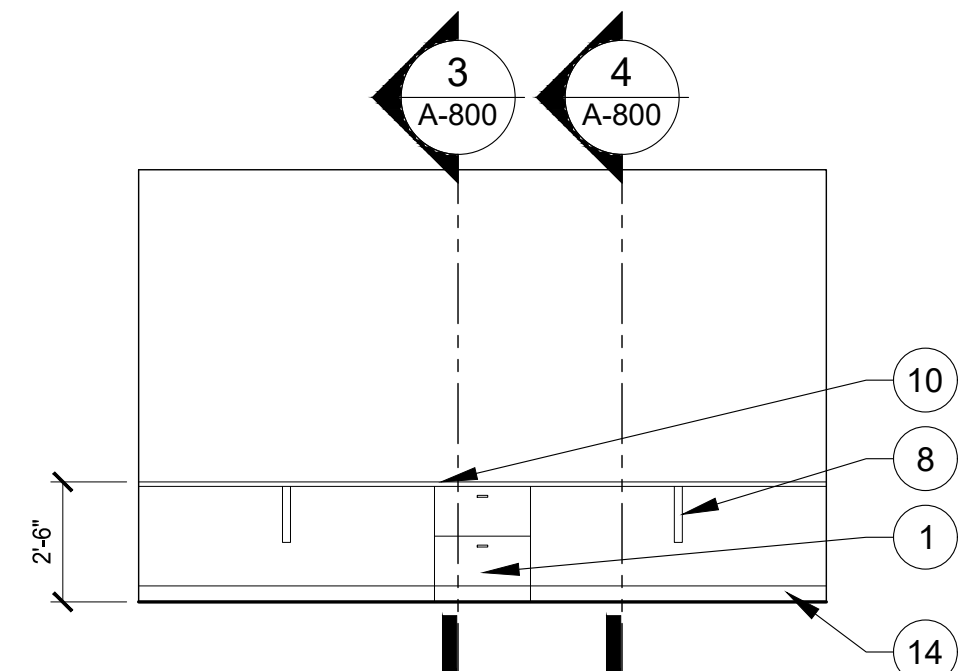
**128 FELINE KENNEL INTERIOR ELEVATION**  
 14 A-801 11 A-801  
 11 A-114 SCALE: 1/4" = 1'-0"



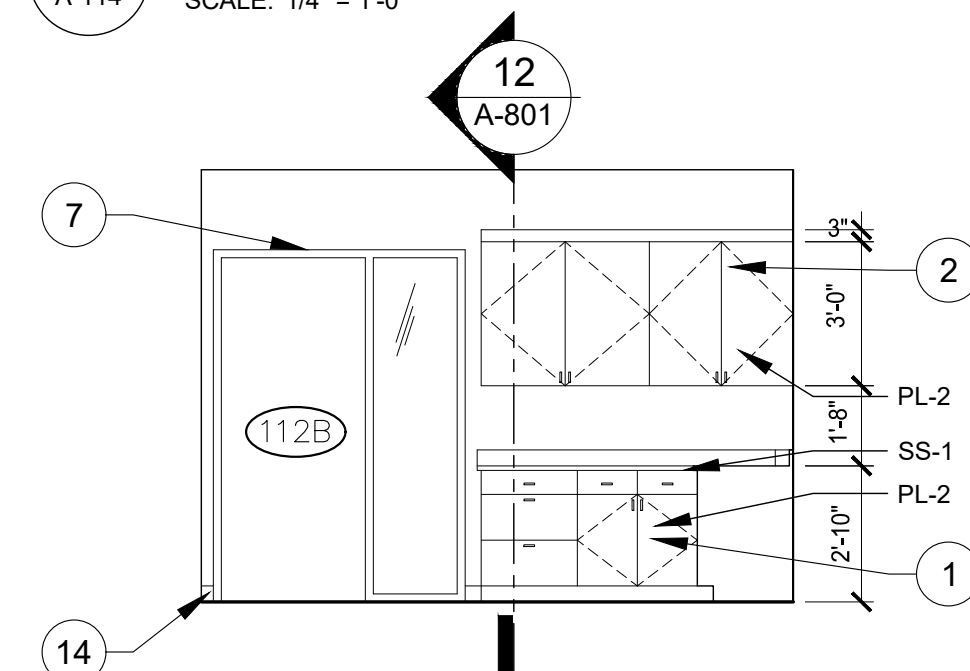
**116 OFFICE INTERIOR ELEVATION**  
 3 A-800 4 A-800  
 10 A-113 SCALE: 1/4" = 1'-0"



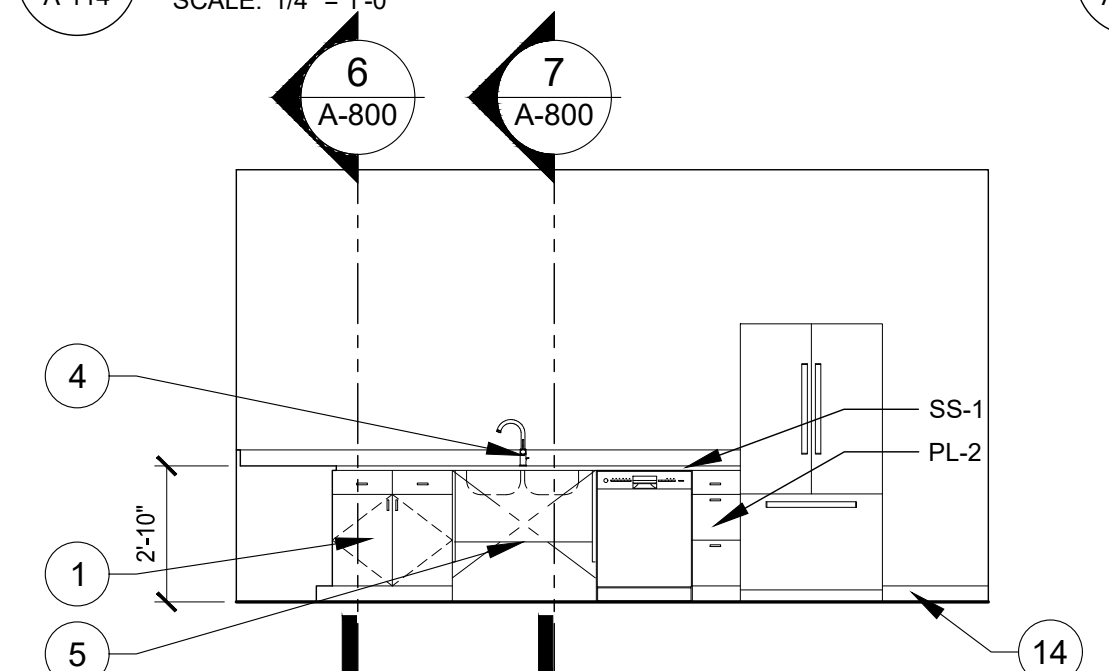
**115 OFFICE INTERIOR ELEVATION**  
 4 A-800 3 A-800  
 9 A-113 SCALE: 1/4" = 1'-0"



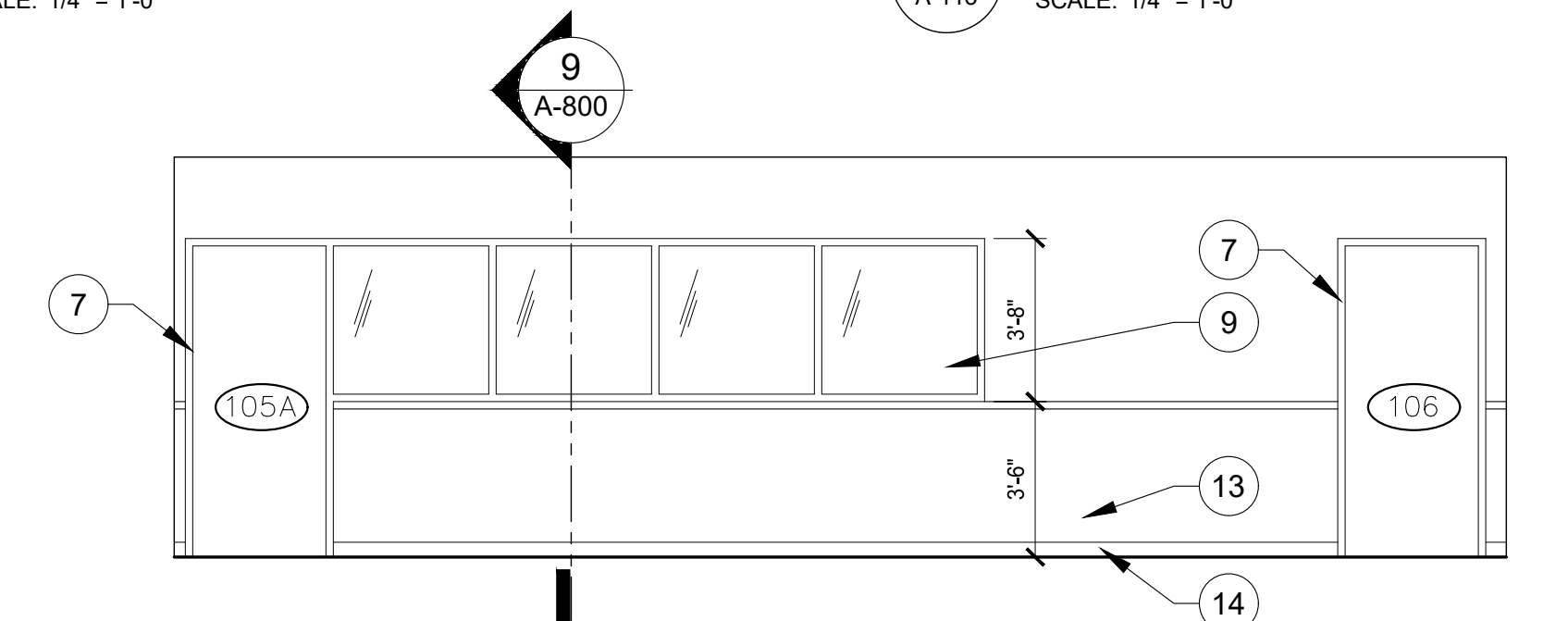
**115 OFFICE INTERIOR ELEVATION**  
 3 A-800 4 A-800  
 8 A-113 SCALE: 1/4" = 1'-0"



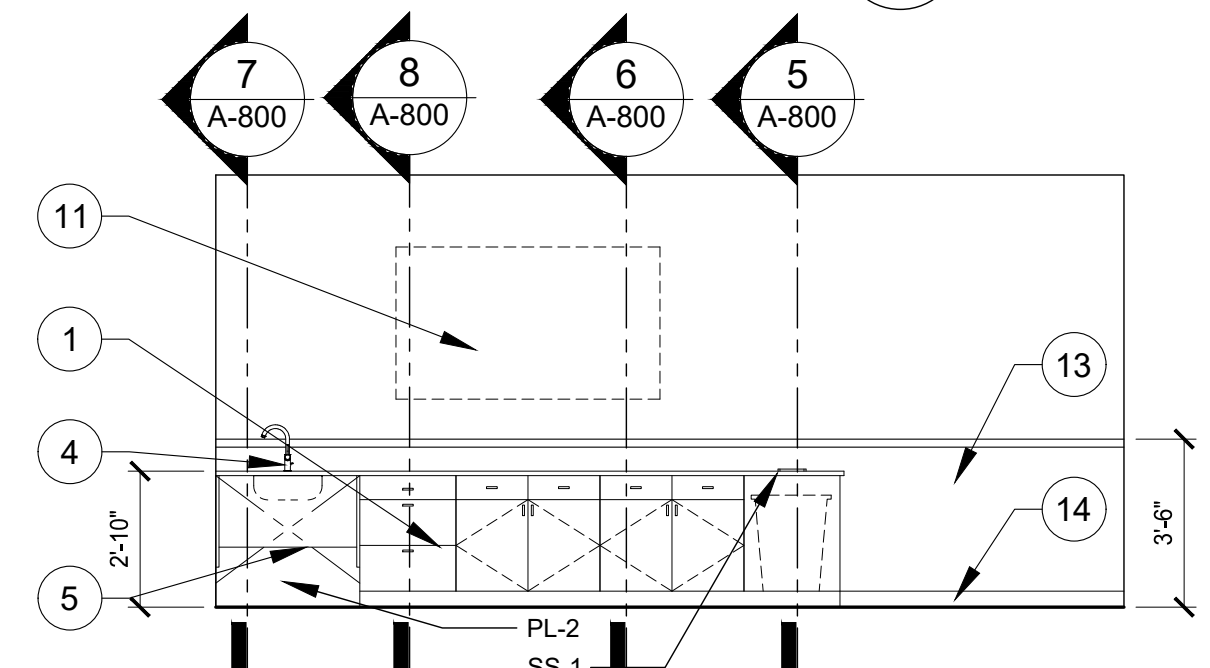
**112 MULTI PURPOSE ROOM INTERIOR ELEVATION**  
 7 A-801  
 7 A-113 SCALE: 1/4" = 1'-0"



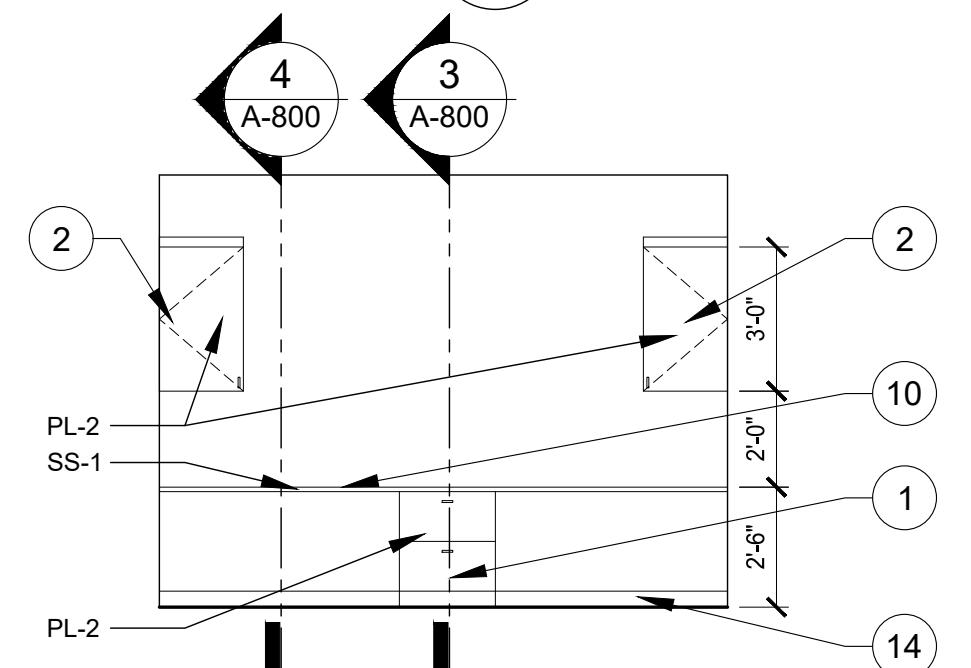
**112 EMPLOYEE BREAK ROOM INTERIOR ELEVATION**  
 6 A-800 7 A-800  
 6 A-113 SCALE: 1/4" = 1'-0"



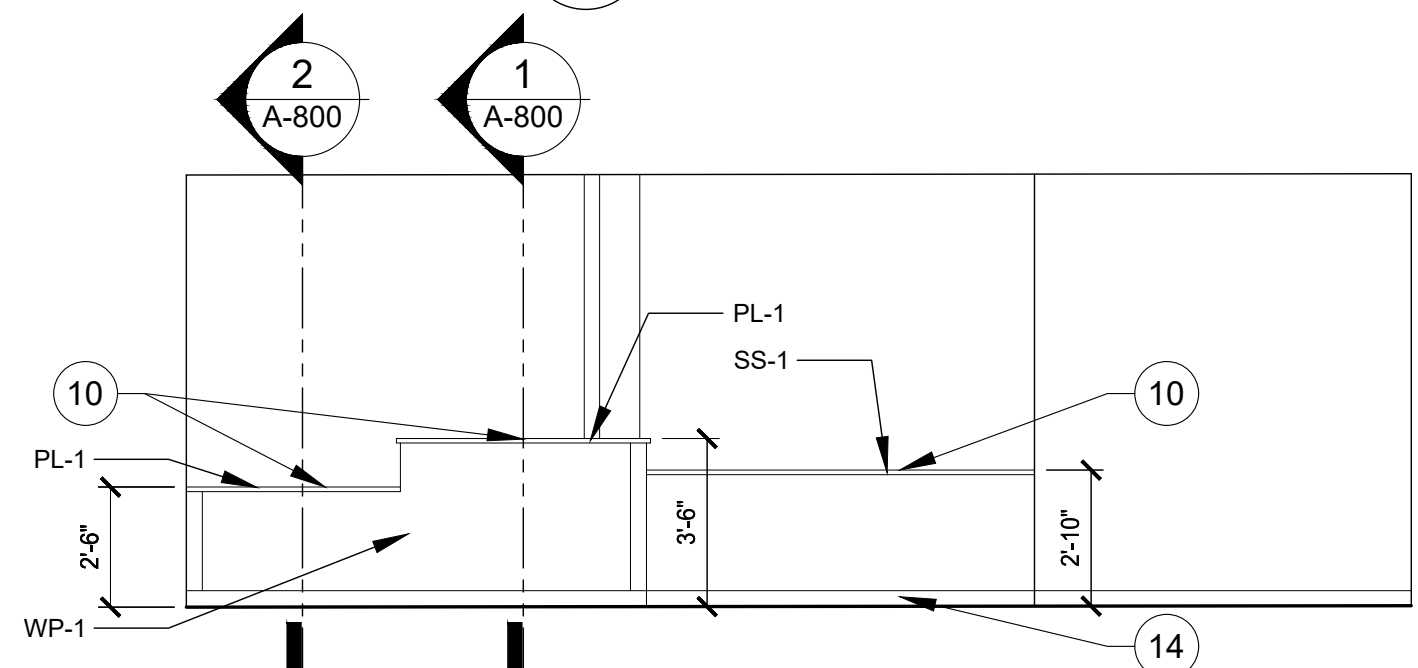
**105 MULTI PURPOSE ROOM INTERIOR ELEVATION**  
 9 A-800  
 5 A-113 SCALE: 1/4" = 1'-0"



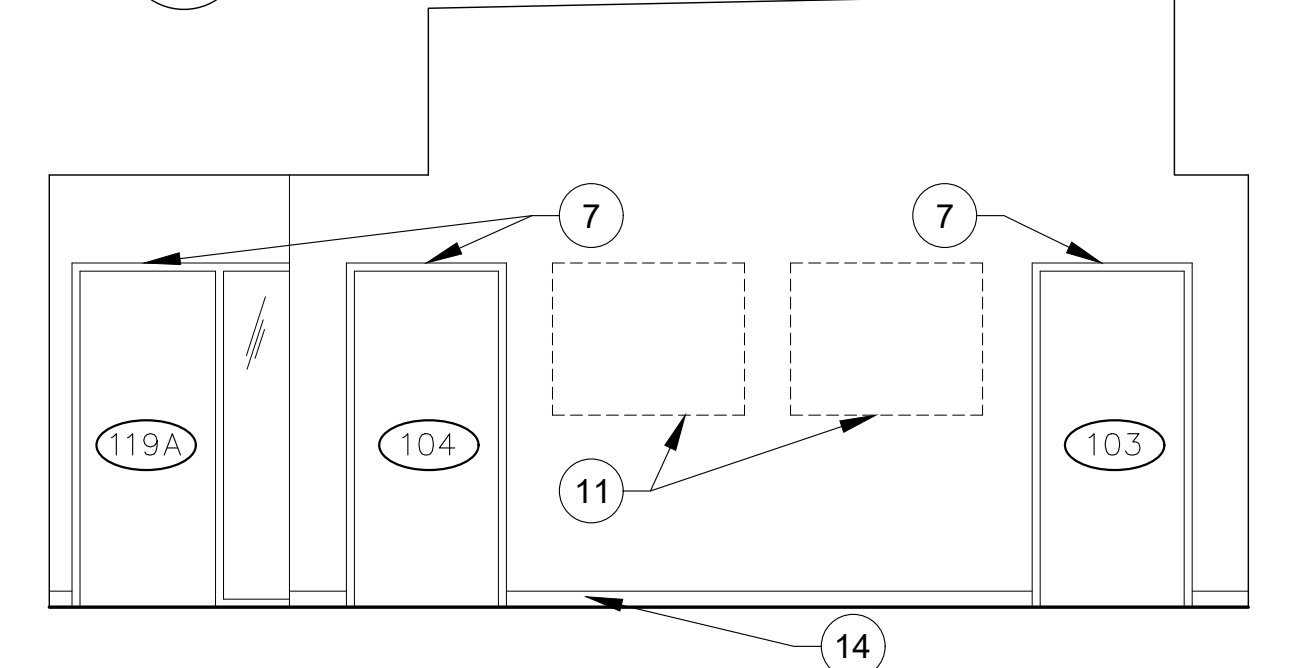
**105 MULTI PURPOSE ROOM INTERIOR ELEVATION**  
 7 A-800 8 A-800 6 A-800 5 A-800  
 4 A-113 SCALE: 1/4" = 1'-0"



**102 RECEPTION INTERIOR ELEVATION**  
 4 A-800 3 A-800  
 3 A-113 SCALE: 1/4" = 1'-0"



**102 RECEPTION INTERIOR ELEVATION**  
 2 A-800 1 A-800  
 2 A-113 SCALE: 1/4" = 1'-0"



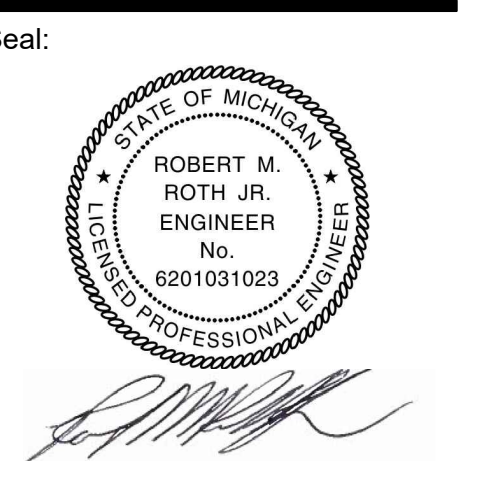
**100 LOBBY INTERIOR ELEVATION**  
 7 A-800  
 1 A-113 SCALE: 1/4" = 1'-0"



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 Approved: MR

Sheet Title:  
**INTERIOR ELEVATIONS**

Project Number: 22712.A

Sheet Number: **A-401**

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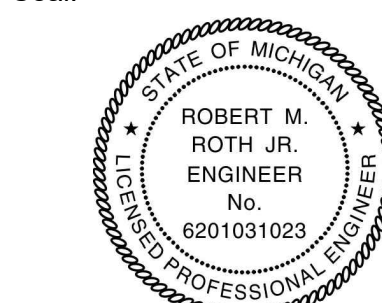


Client:  
**City of Taylor**  
23555 Goddard Rd.  
Taylor, MI 48180

Project:  
**City of Taylor  
Animal Shelter  
Remodel & Expansion**

25555 Northline Rd.  
Taylor, MI 48180

Seal:



Date	Issued For
09-13-2023	25% Complete Review
10-18-2023	50% Complete Review
12-21-2023	Owner Review
01-17-2024	Permit Review

Drawn: WD/JC/NC  
Checked: WD  
Approved: MR

Sheet Title:  
**REFLECTED  
CEILING PLAN**

Project Number: **22712.A**

Sheet Number: **A-510**

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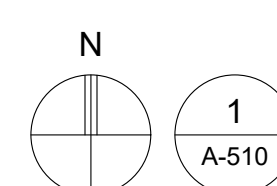
**REFLECTED CEILING PLAN NOTES:**

- 1 2x2 LAY-IN CEILING SYSTEM (TYP.)
- 2 2x4 LAY-IN LIGHT FIXTURE (TYP.)
- 3 PENDANT MOUNTED LIGHT FIXTURE (TYP.)
- 4 EXPOSED ROOF FRAMING STRUCTURE ABOVE (PAINTED)
- 5 GYP. BOARD SOFFIT/DROP (PAINTED)
- 6 GYP. BOARD CEILING (PAINTED)
- 7 RECESSED 'CAN' LIGHT FIXTURE.
- 8 SKYLIGHT

**REFLECTED CEILING PLAN LEGEND**

REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR  
ADDITIONAL INFORMATION

- CEILING GRID
- 2x4' LIGHT FIXTURE
- 2x2' HVAC SUPPLY DIFFUSER
- 2x2' HVAC RETURN DIFFUSER
- RECESSED 'CAN' LIGHT
- PENDANT MOUNTED LIGHT FIXTURE
- DRYWALL CEILING
- INDICATES CEILING / SOFFIT HEIGHT  
(EX = TO MATCH EXISTING HEIGHTS)



**REFLECTED CEILING PLAN**

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



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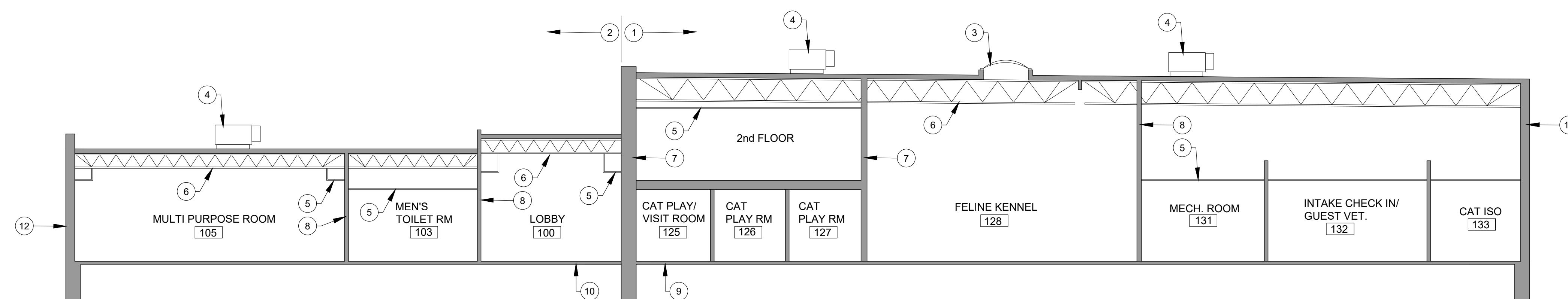
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 Checked: WD  
 Approved: MR

Sheet Title:  
**BUILDING SECTIONS**

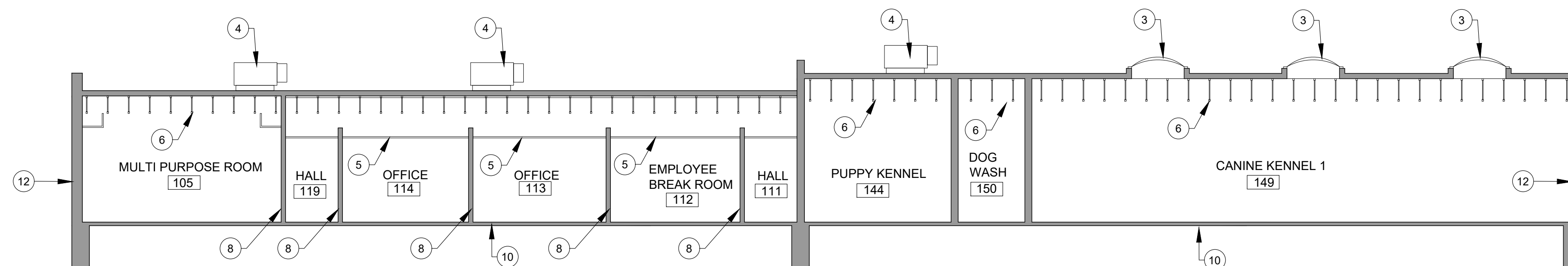
Project Number: **22712.A**

Sheet Number: **A-600**

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**1**  
A-600  
**BUILDING SECTION**  
SCALE: 1/8" = 1'-0"



**2**  
A-600  
**BUILDING SECTION**  
SCALE: 1/8" = 1'-0"

**BUILDING SECTION NOTES:**

- 1 EXISTING BUILDING
- 2 NEW BUILDING ADDITION
- 3 SKYLIGHT
- 4 HVAC EQUIPMENT (RTU)
- 5 FINISH CEILING
- 6 EXPOSED CEILING
- 7 EXISTING MASONRY WALL
- 8 NEW INTERIOR WALL
- 9 EXISTING FLOOR SLAB
- 10 NEW FLOOR SLAB
- 11 EXISTING EXTERIOR WALL
- 12 NEW EXTERIOR WALL

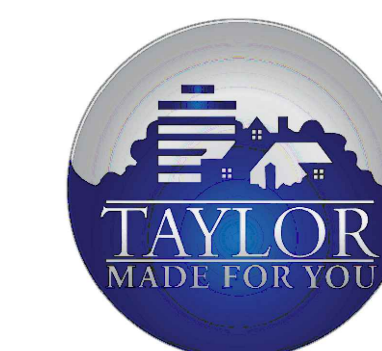


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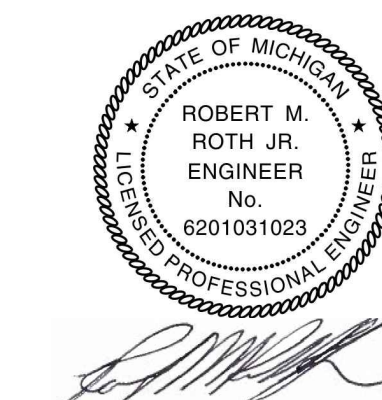
City of Taylor  
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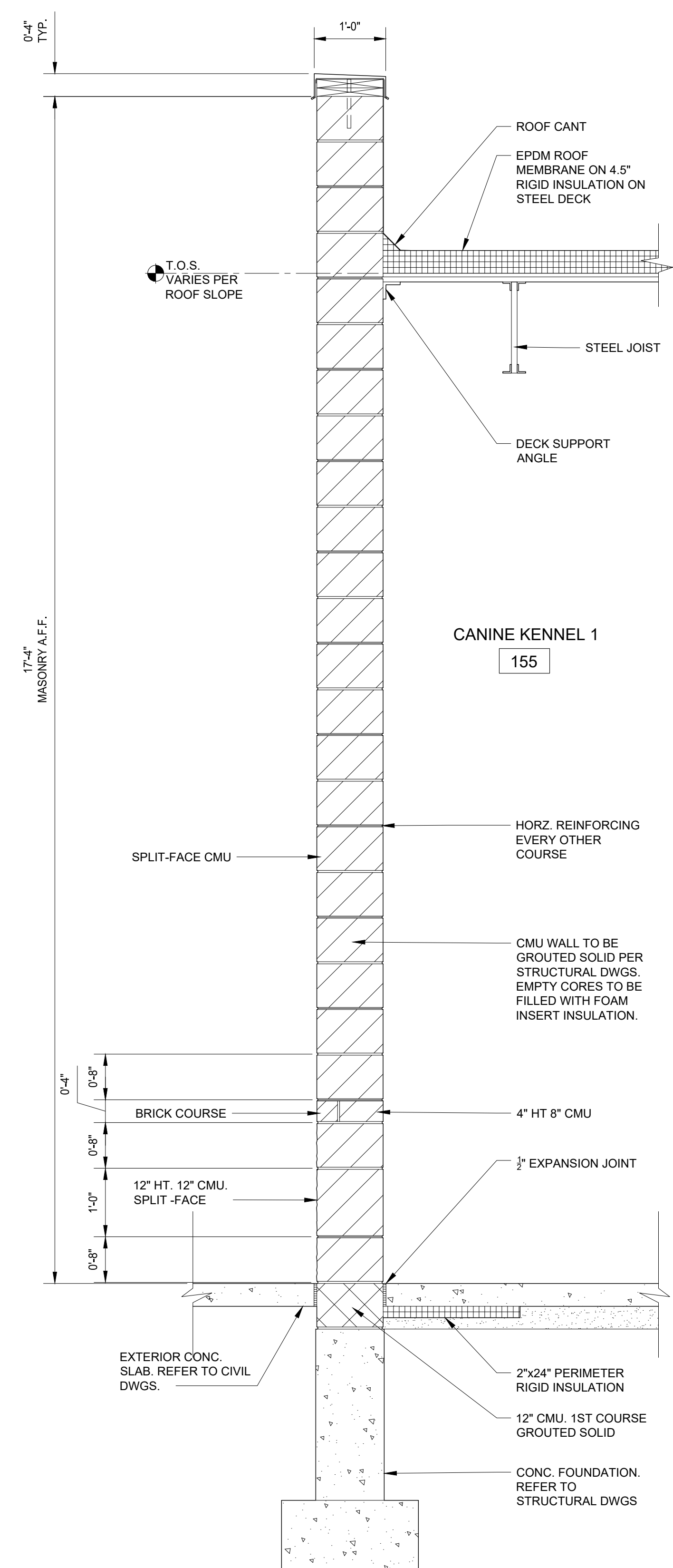
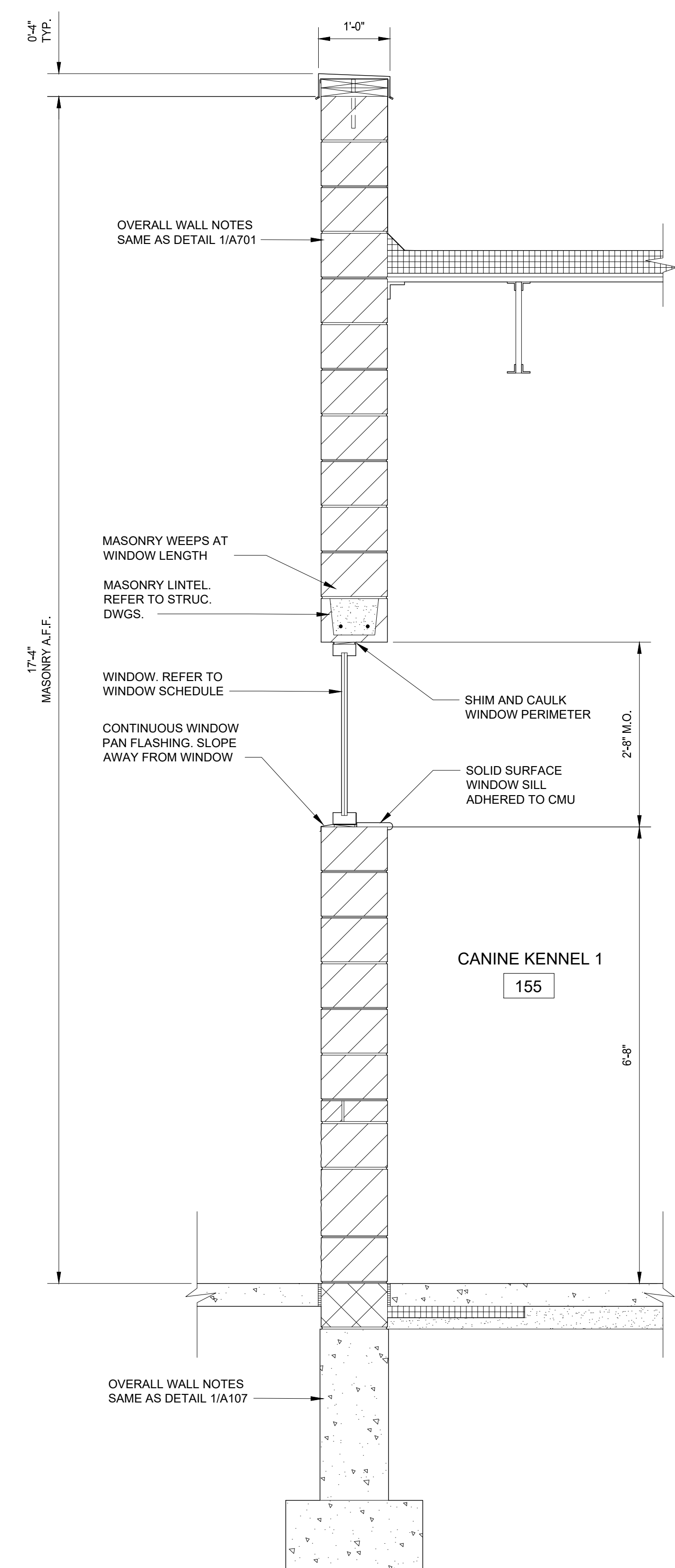
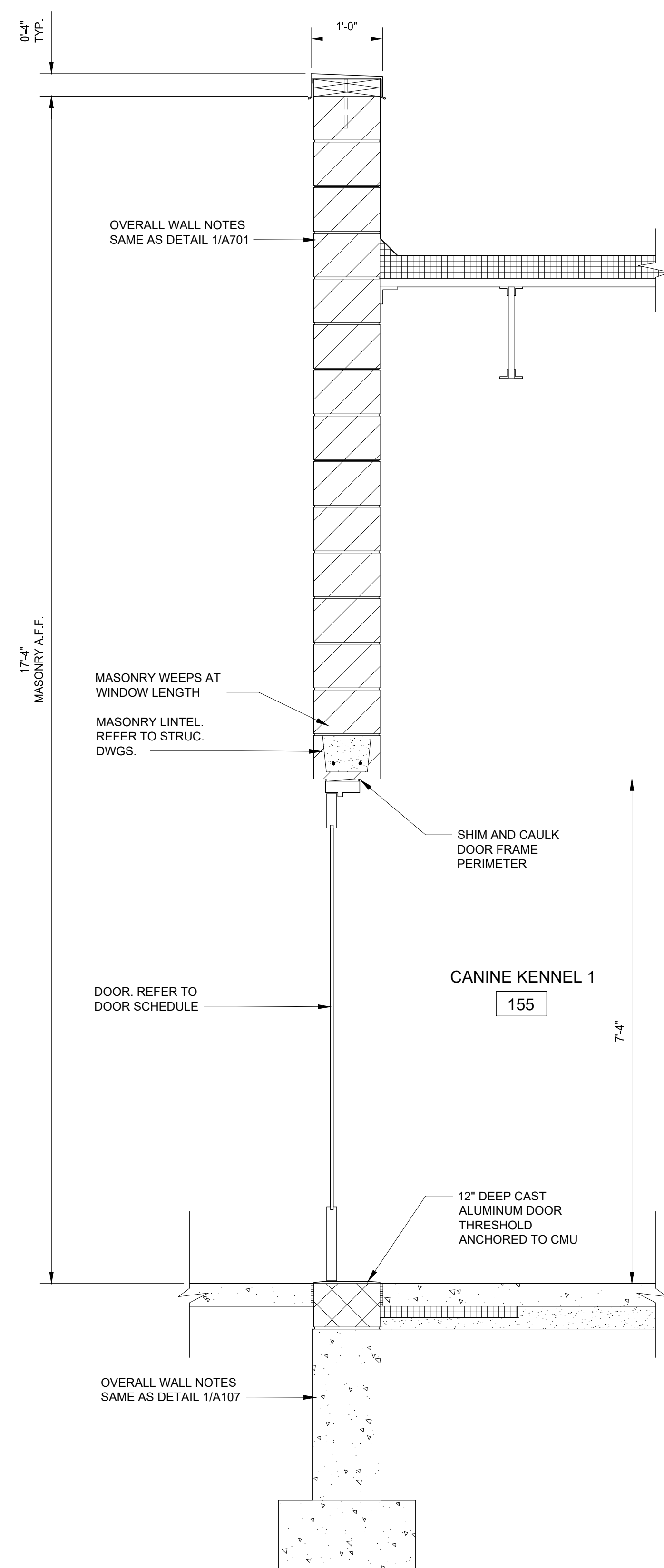
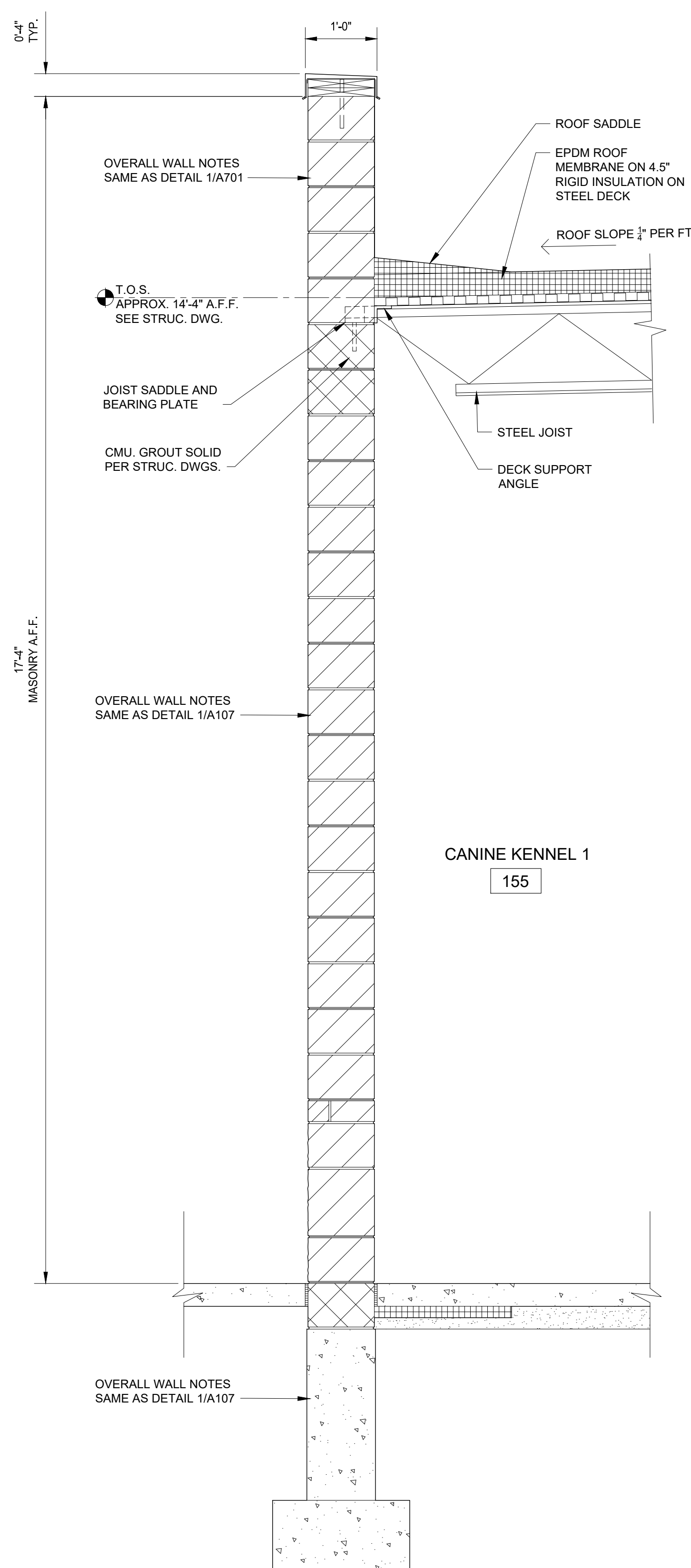
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Checked: WD  
Approved: MR

Sheet Title:  
WALL SECTIONS

Project Number: 22712.A

Sheet Number: A-701

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

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

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

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



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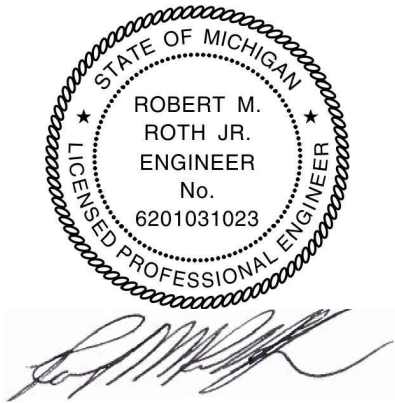


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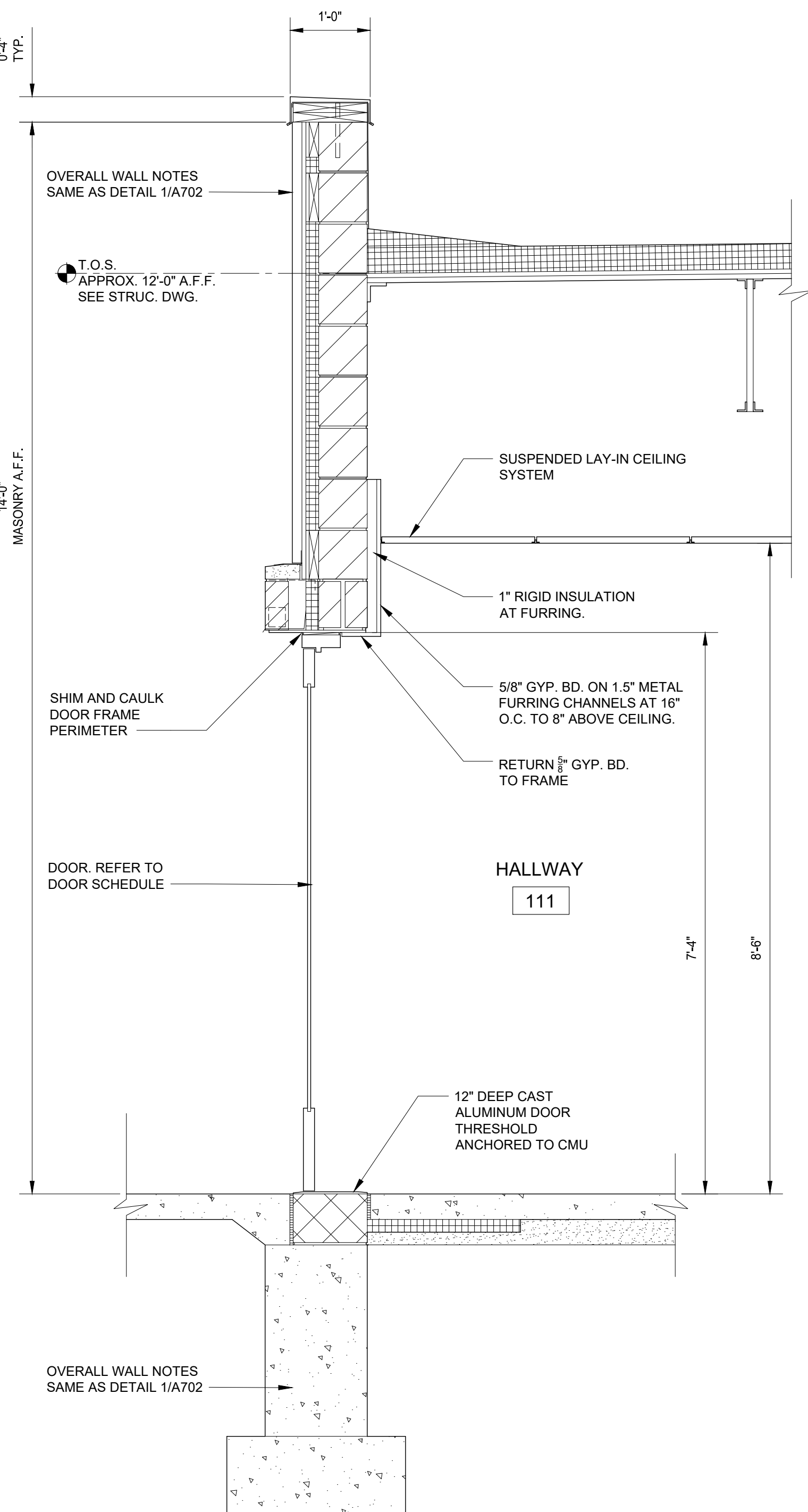
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Checked: WD  
Approved: MR

Sheet Title:  
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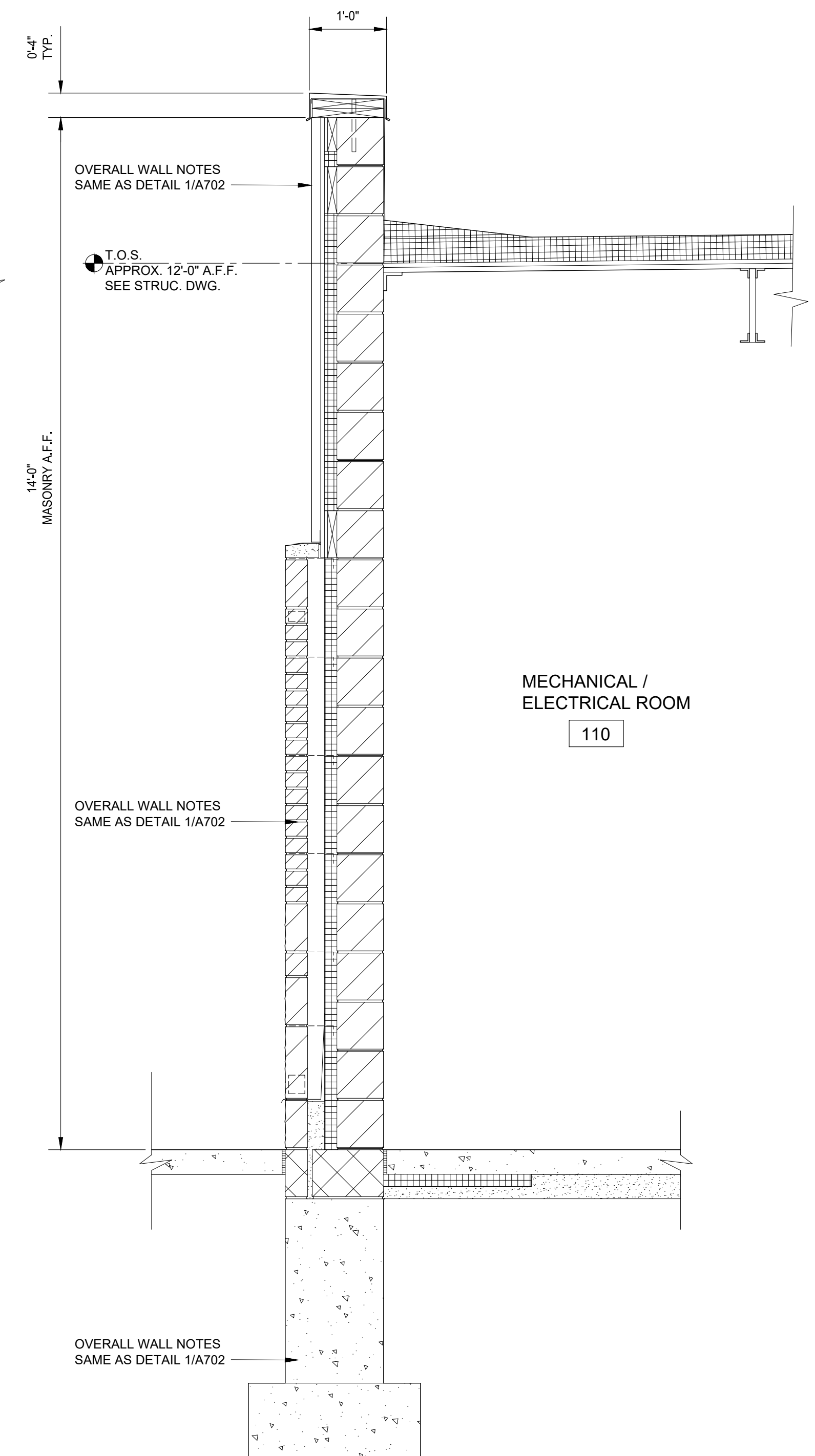
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Sheet Number: **A-702**

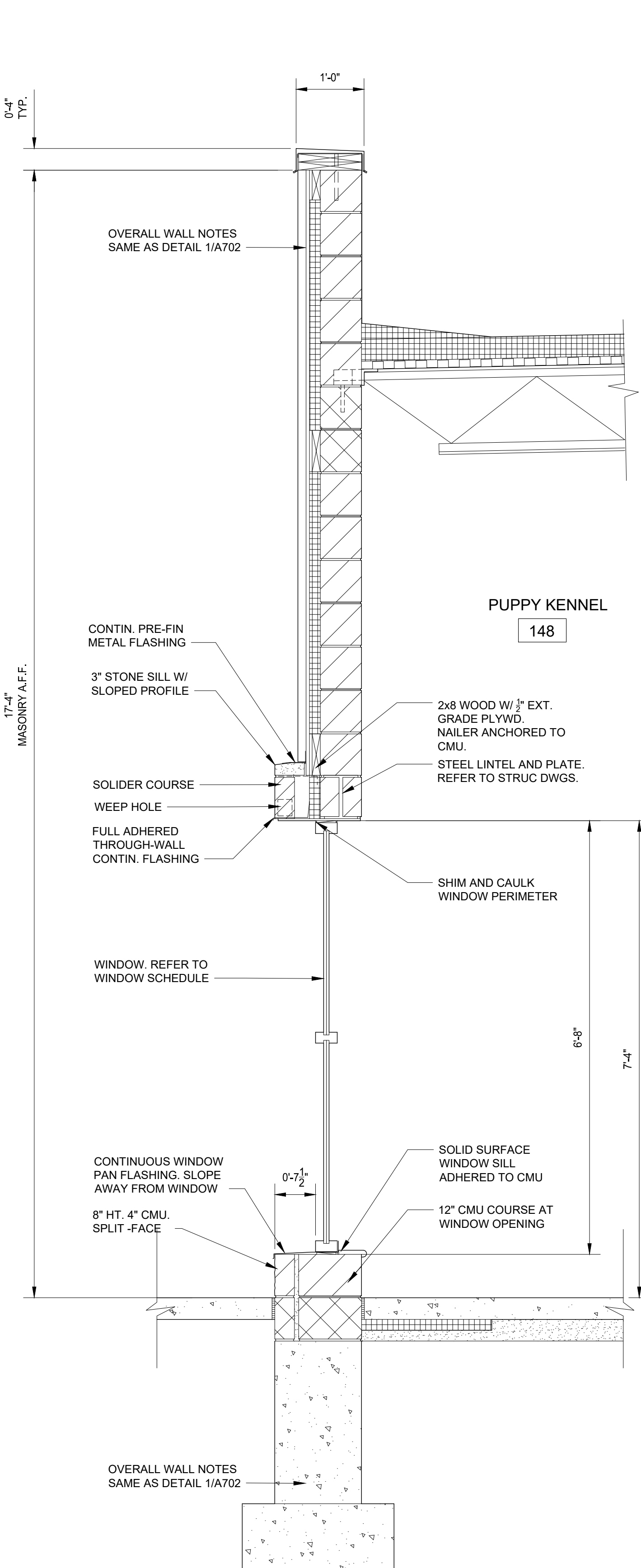
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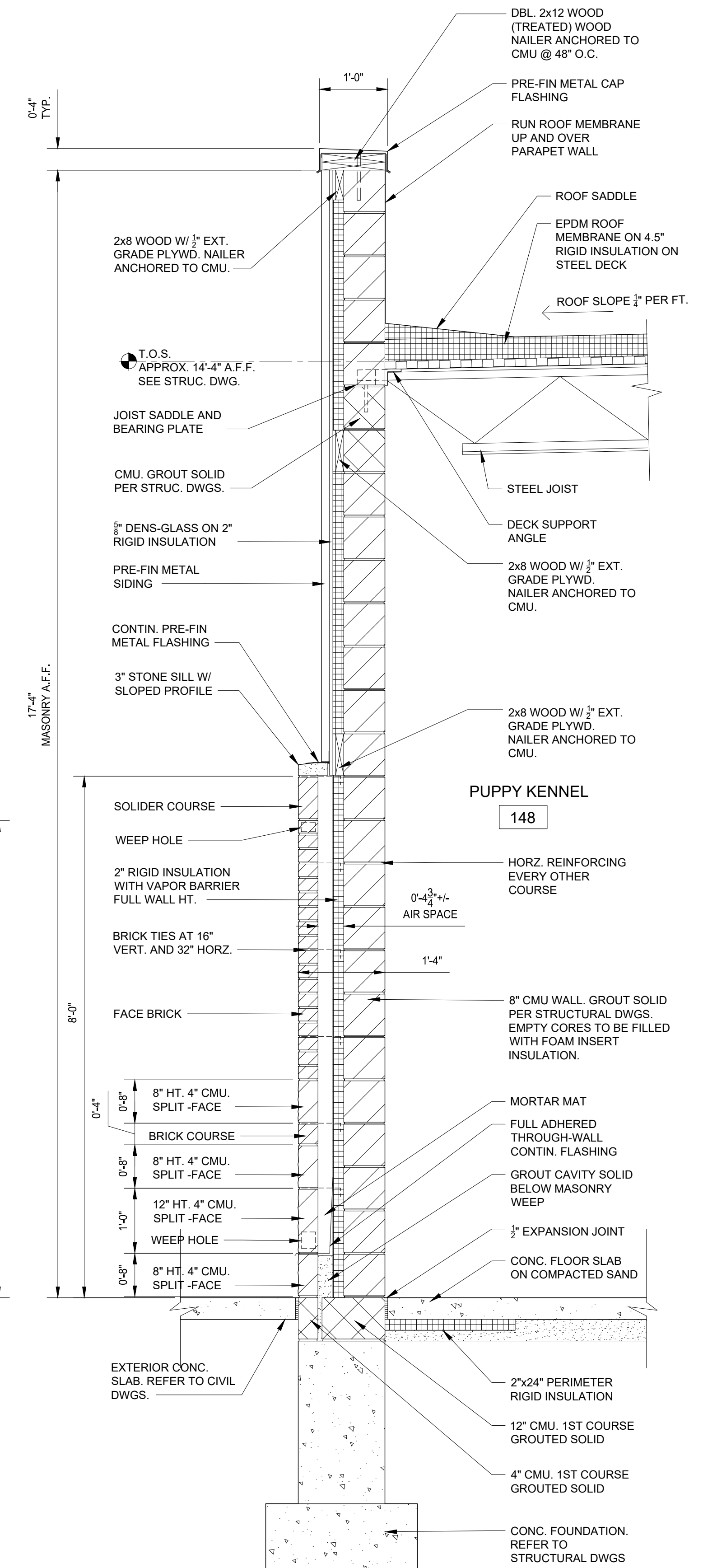
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SCALE: 3/4" = 1'-0"



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



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



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



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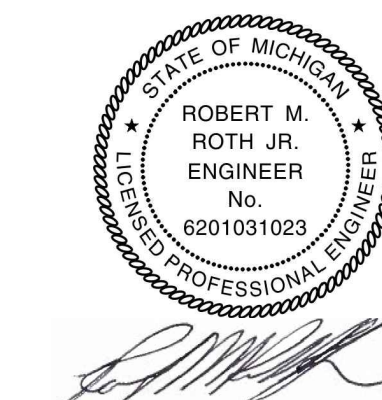
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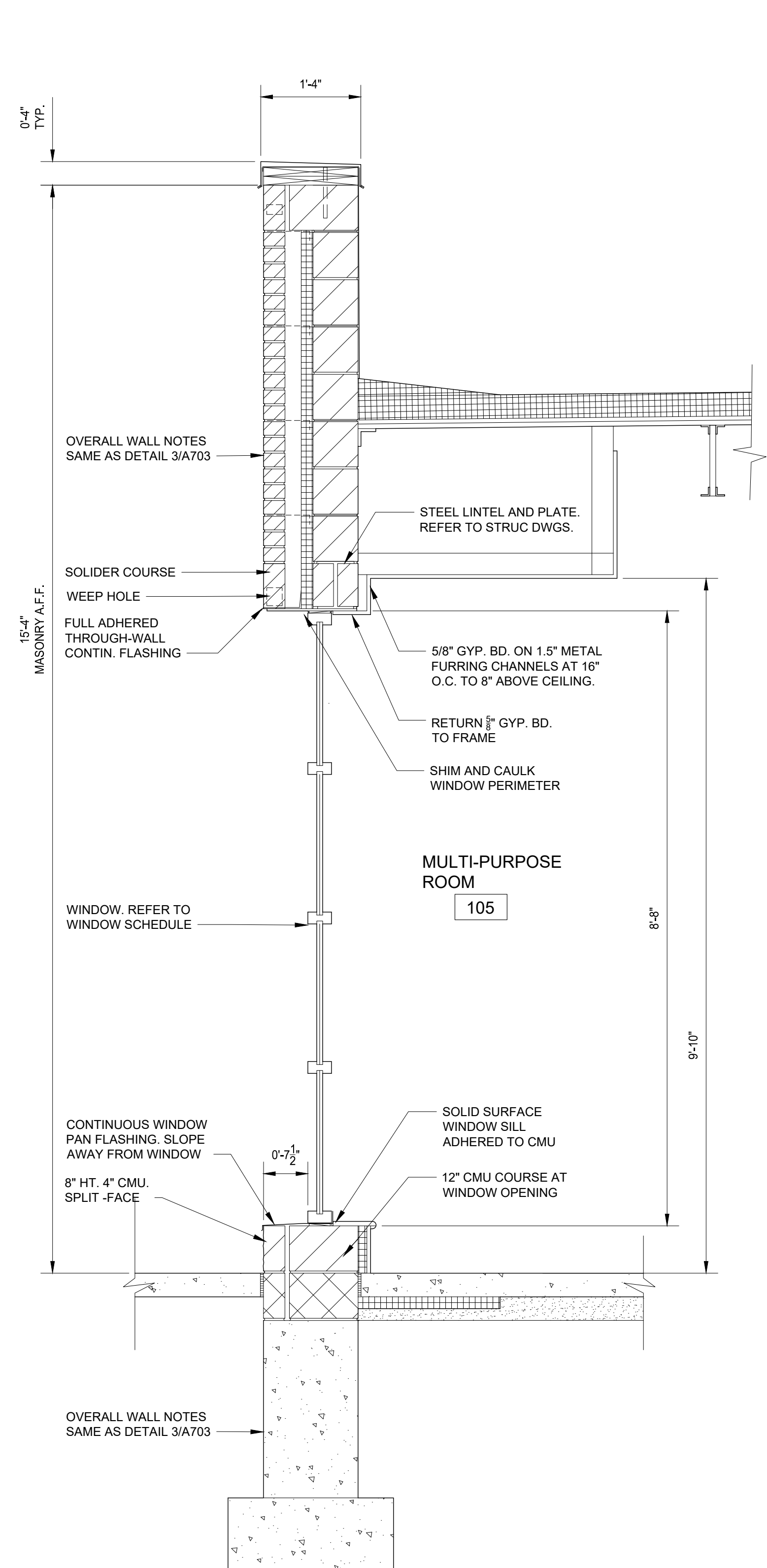
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WALL SECTIONS

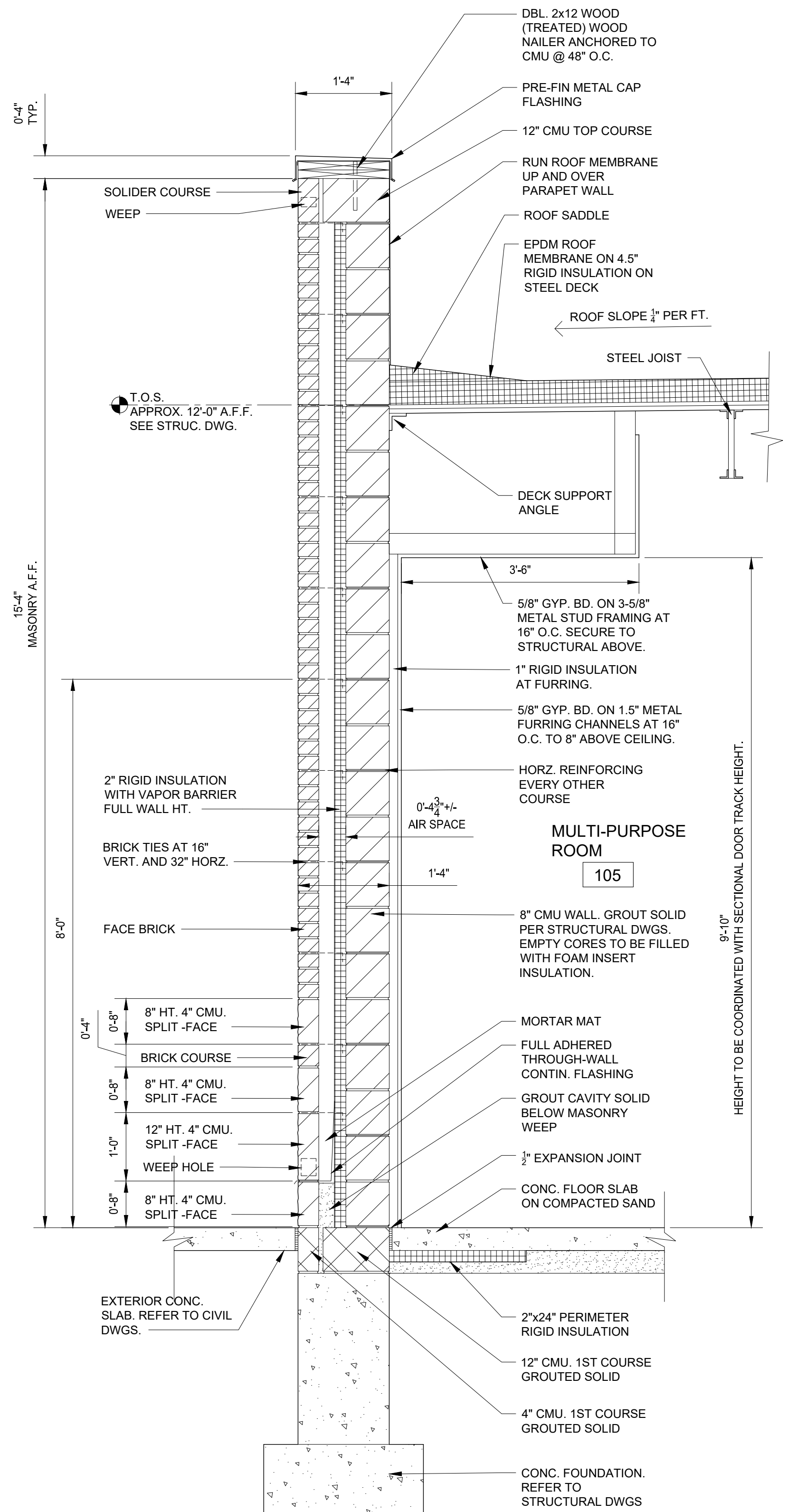
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Sheet Number: A-703

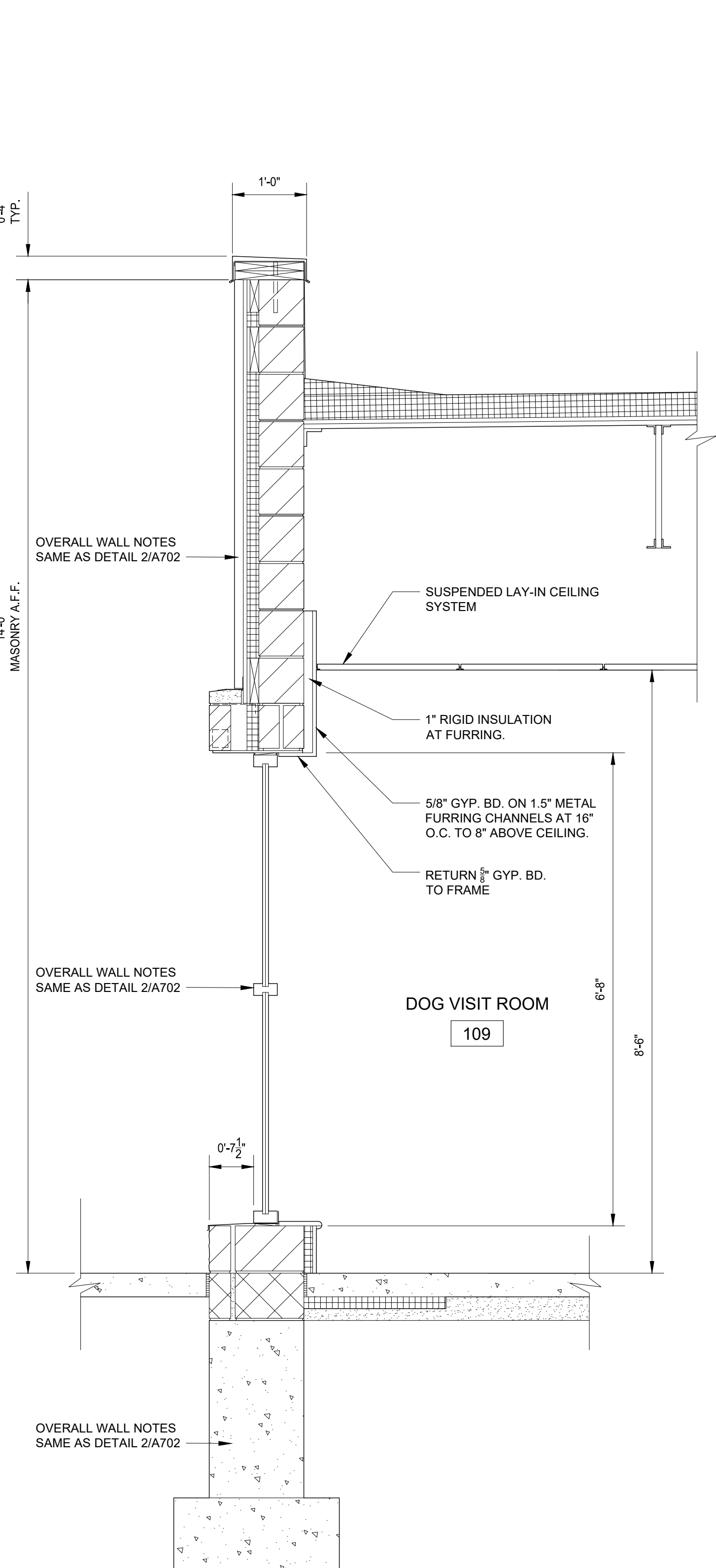
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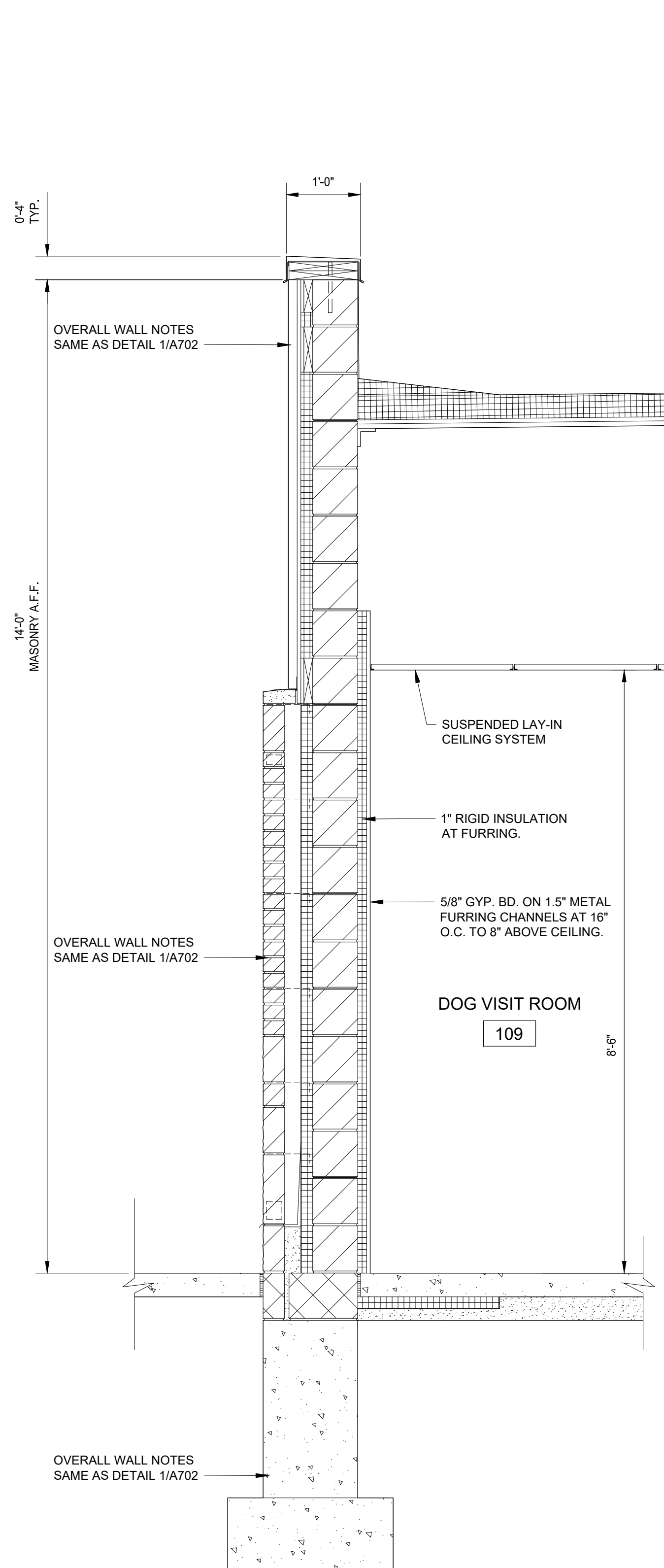
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SCALE: 3/4" = 1'-0"



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



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



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



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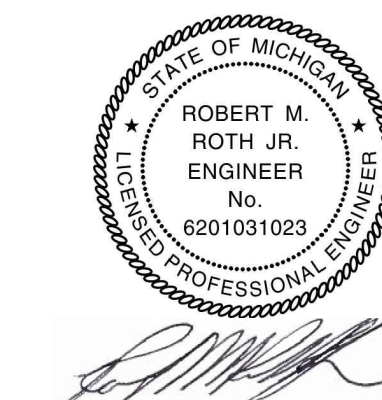
City of Taylor  
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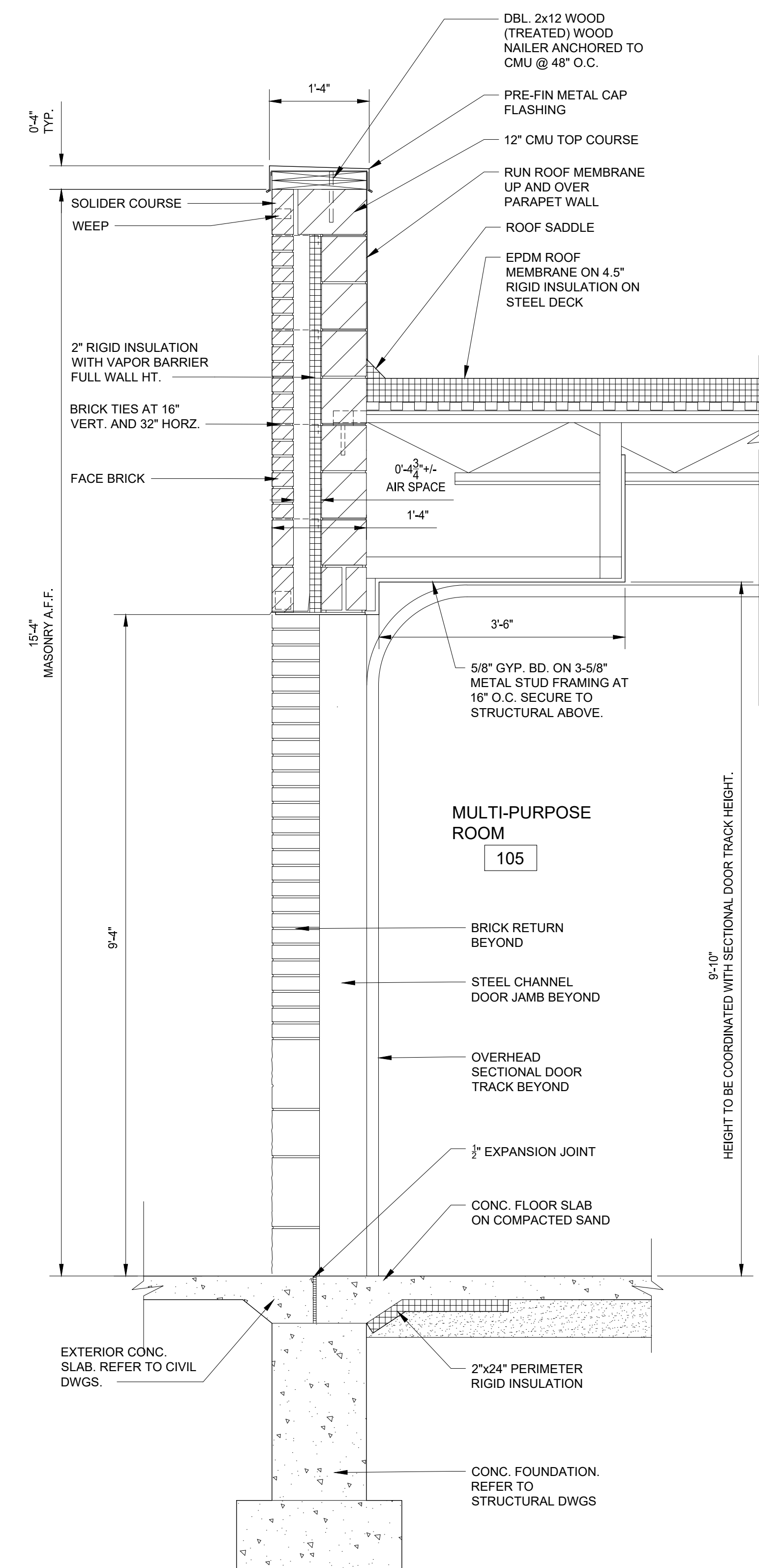
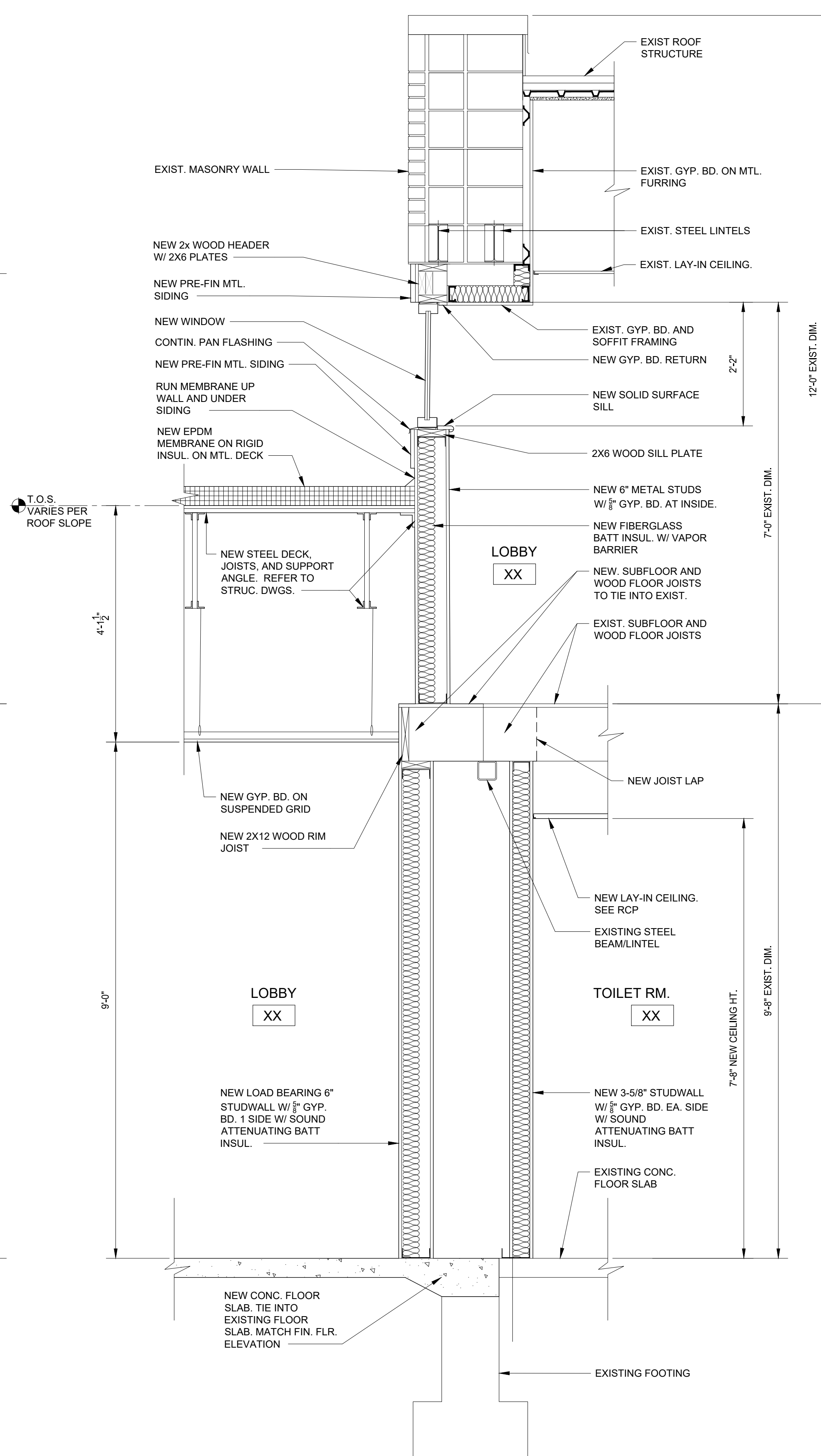
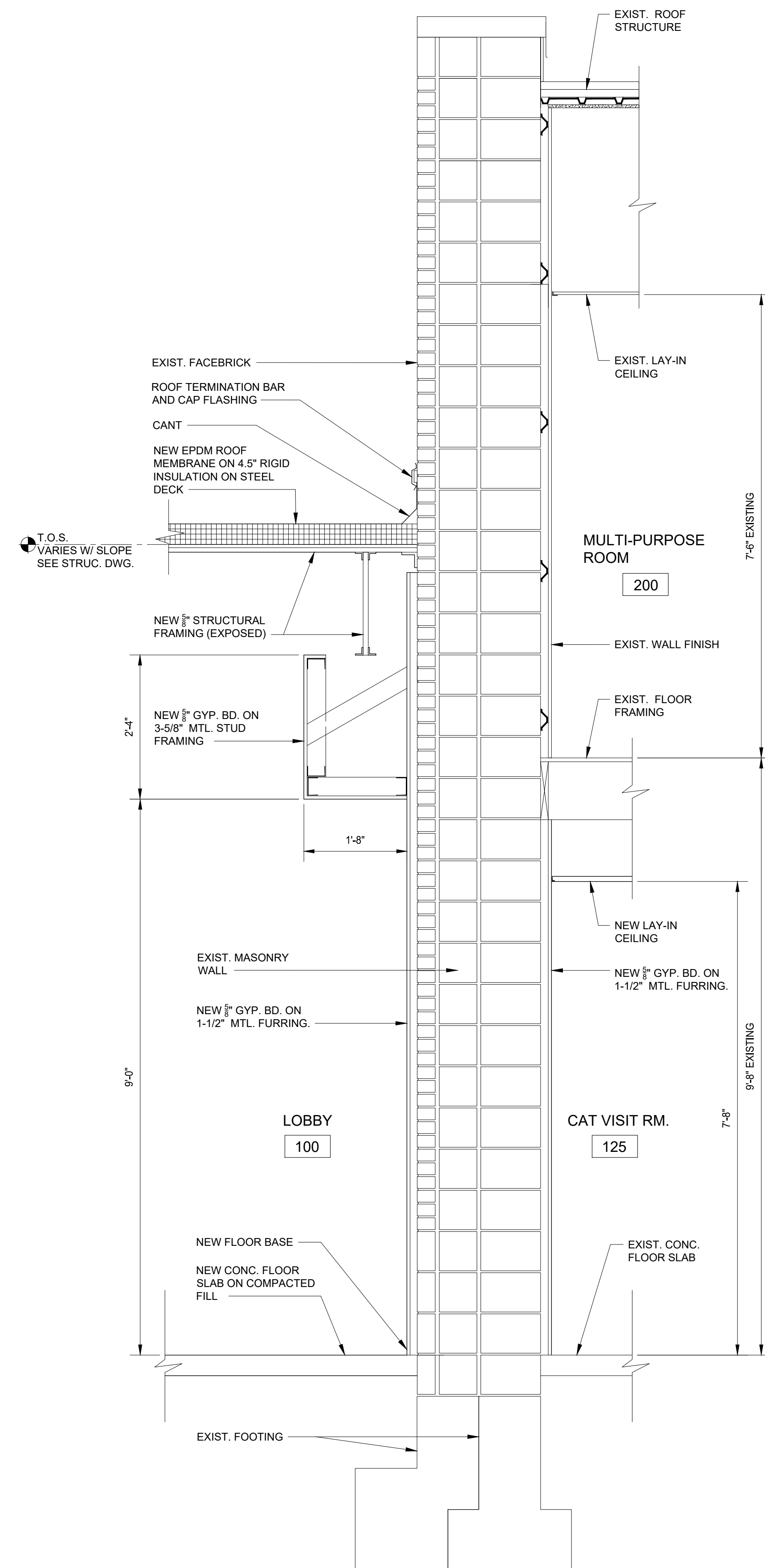
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Checked: WD  
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Sheet Title:  
**WALL SECTIONS**

Project Number: 22712.A

Sheet Number: **A-704**

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3  
A-114

**WALL SECTION**  
SCALE: 3/4" = 1'-0"

2  
A-114

**WALL SECTION**  
SCALE: 3/4" = 1'-0"

1  
A-113

**WALL SECTION**  
SCALE: 3/4" = 1'-0"

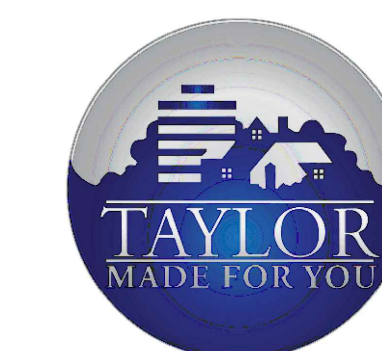


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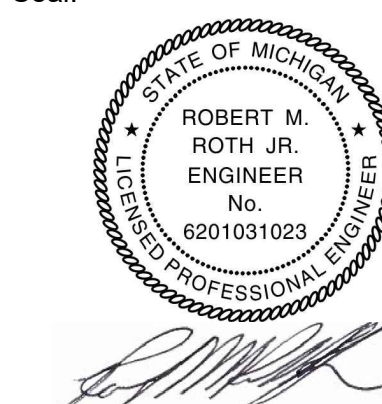
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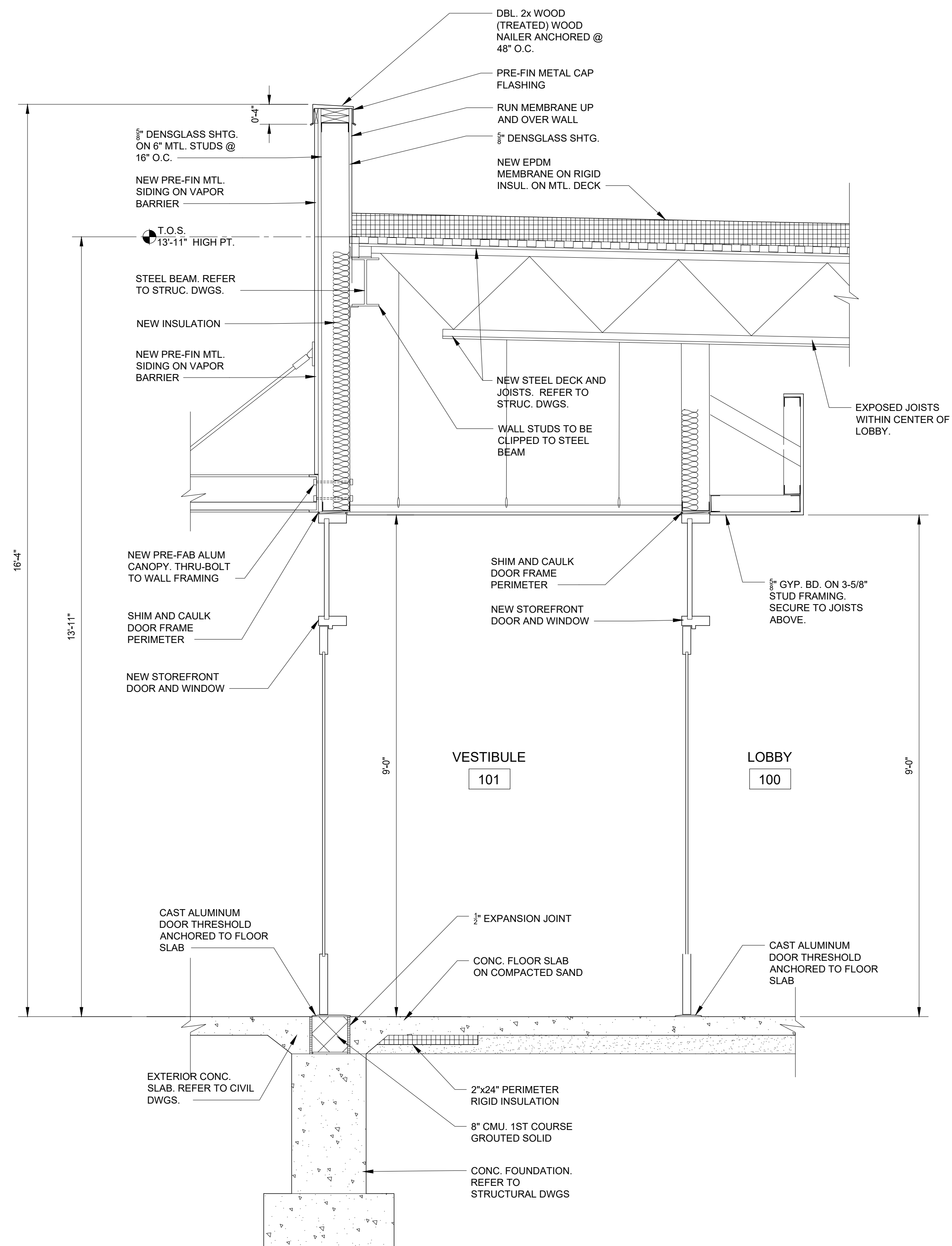
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Checked:	WD
Approved:	MR

Sheet Title:  
WALL SECTIONS

Project Number: 22712.A

Sheet Number: A-705

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1  
A-113

WALL SECTION

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



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Key Plan:



Client:

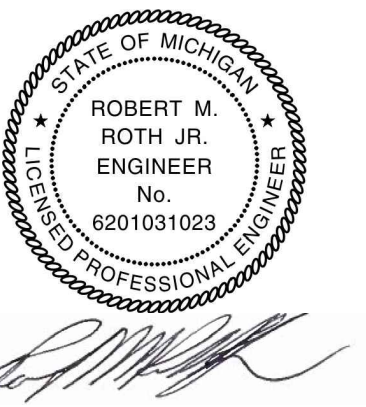
City of Taylor  
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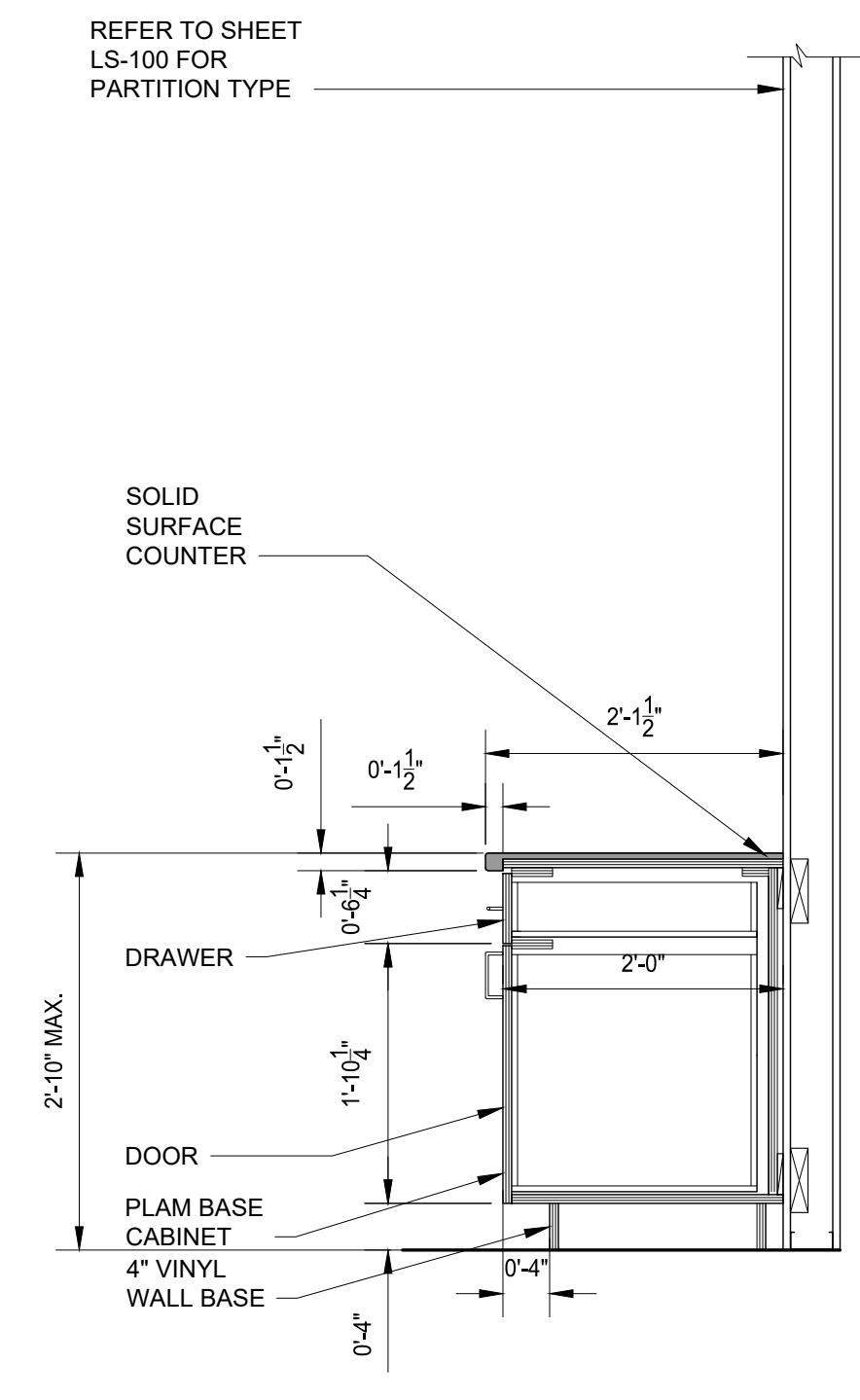
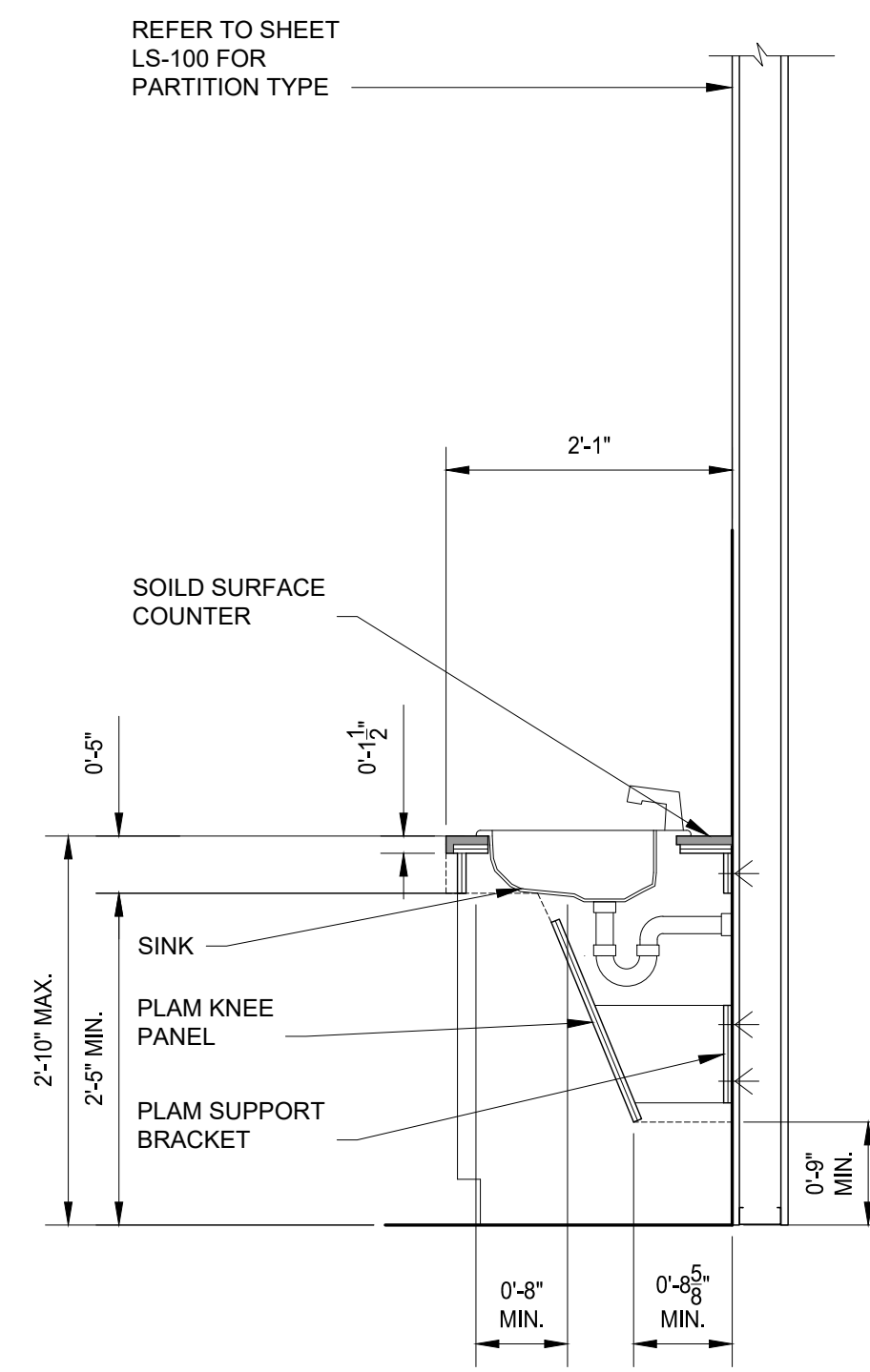
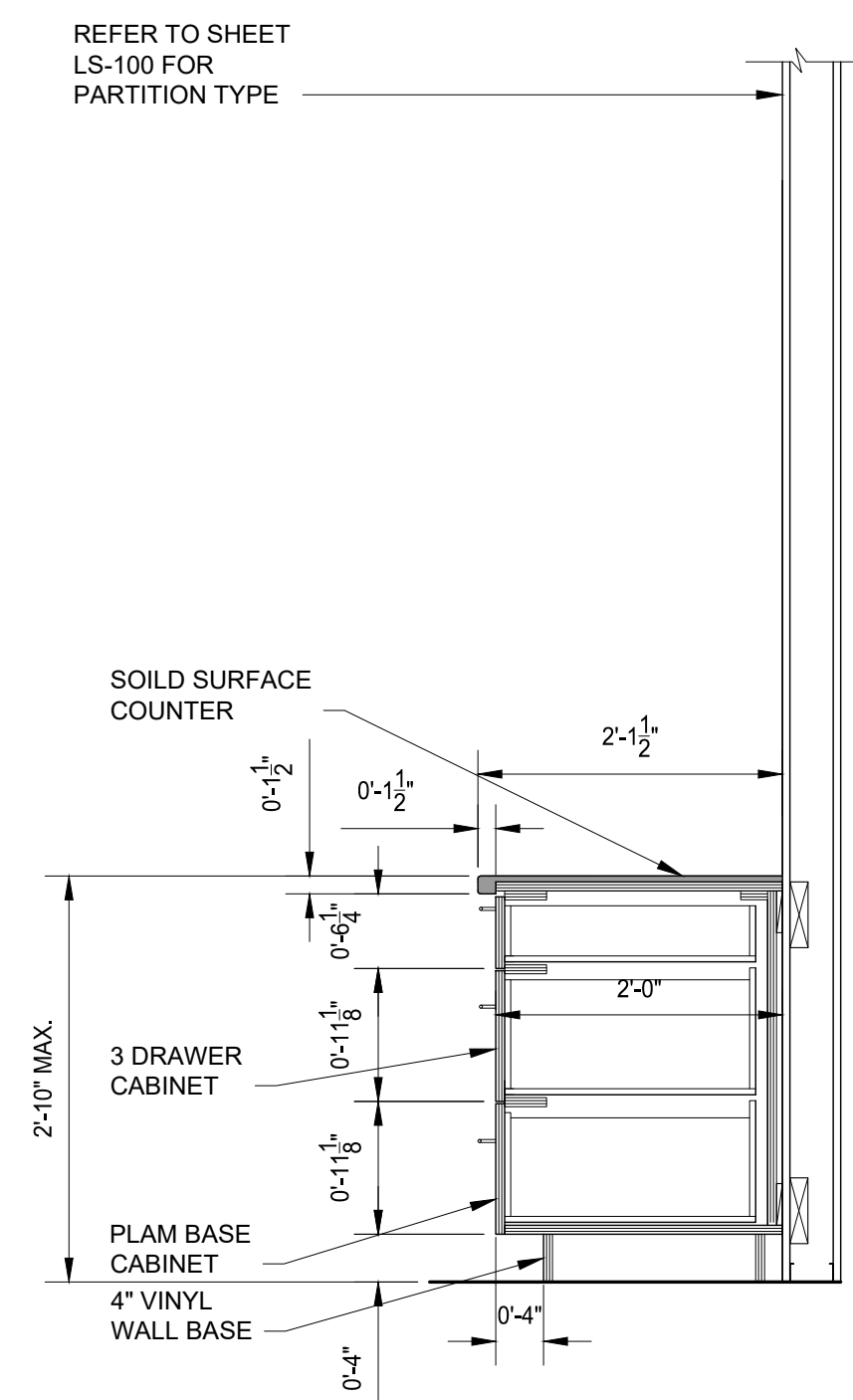
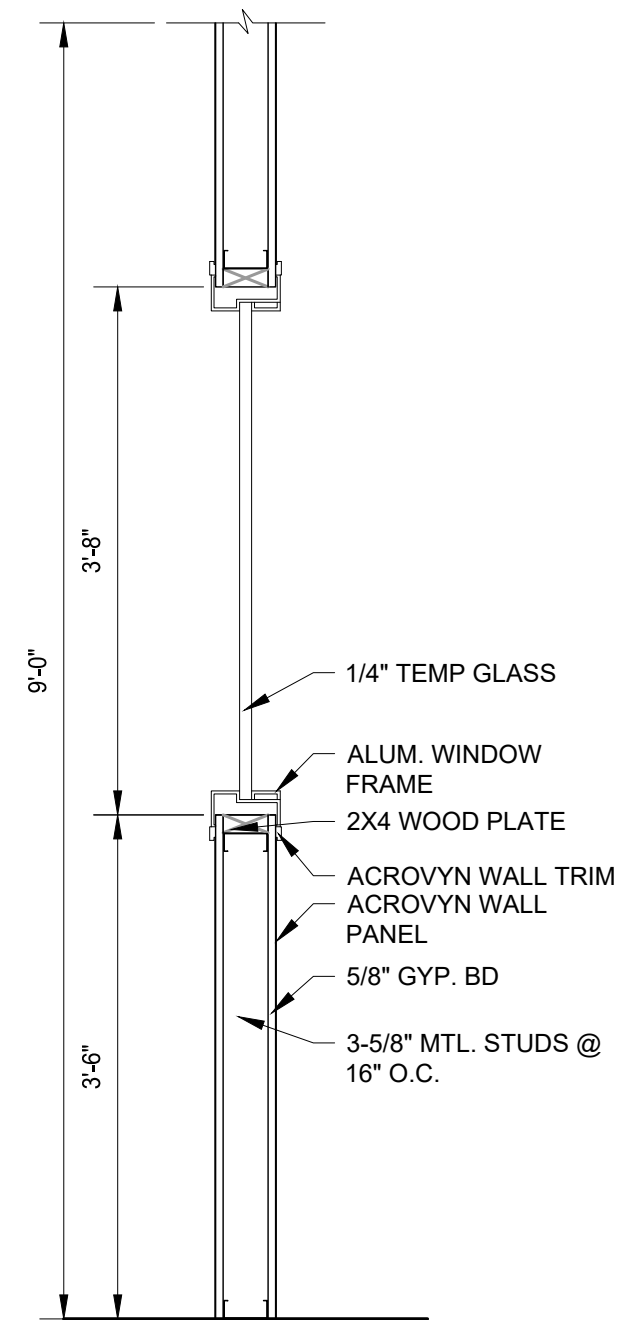
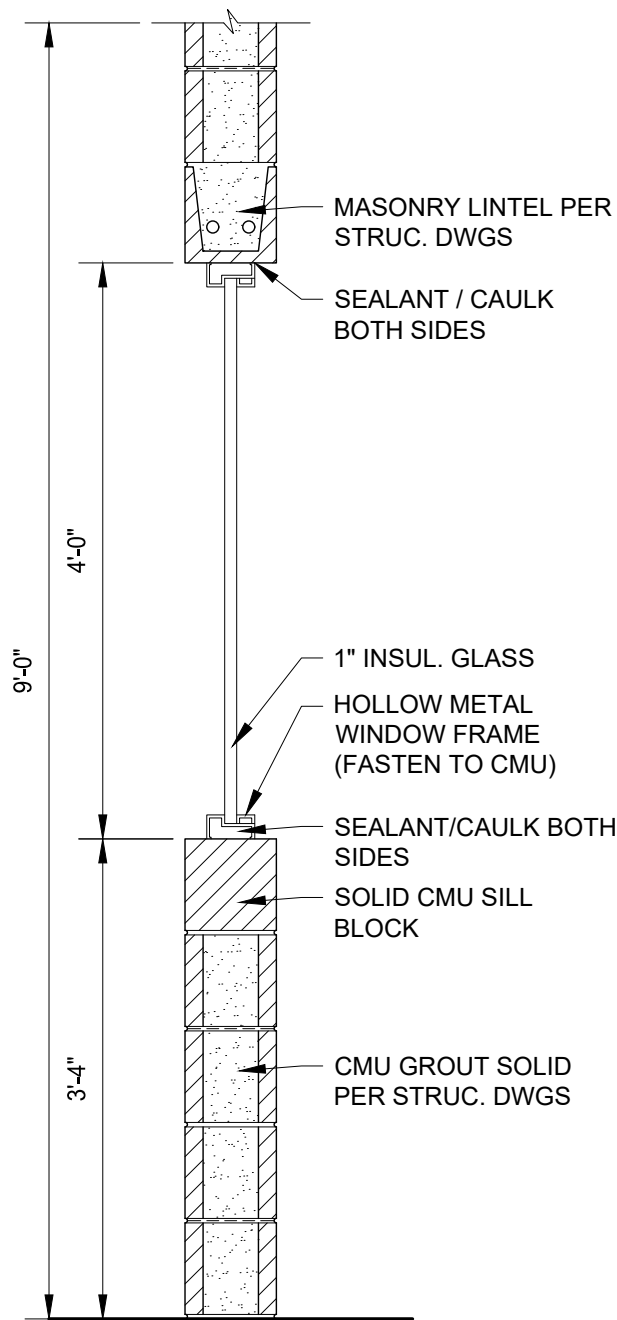
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Checked: WD  
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Sheet Title:  
MILLWORK  
DETAILS

Project Number: 22712.A

Sheet Number: A-800

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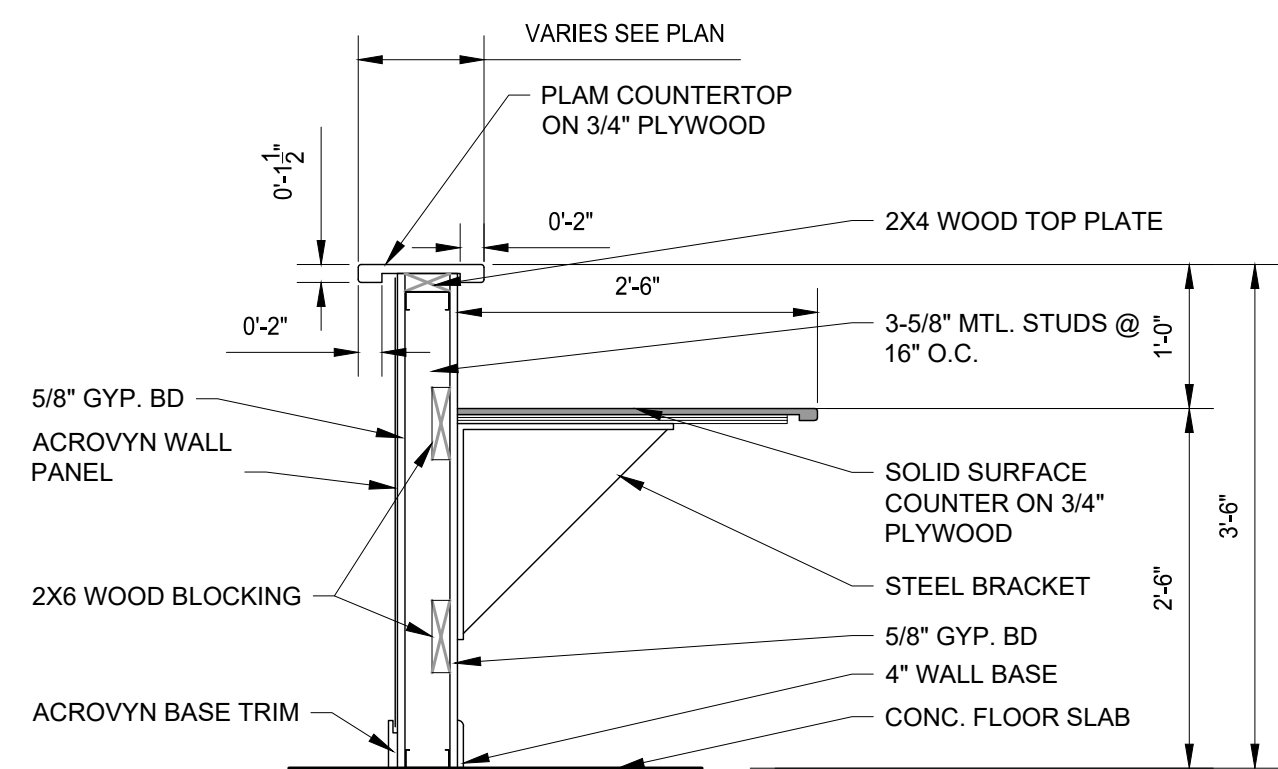
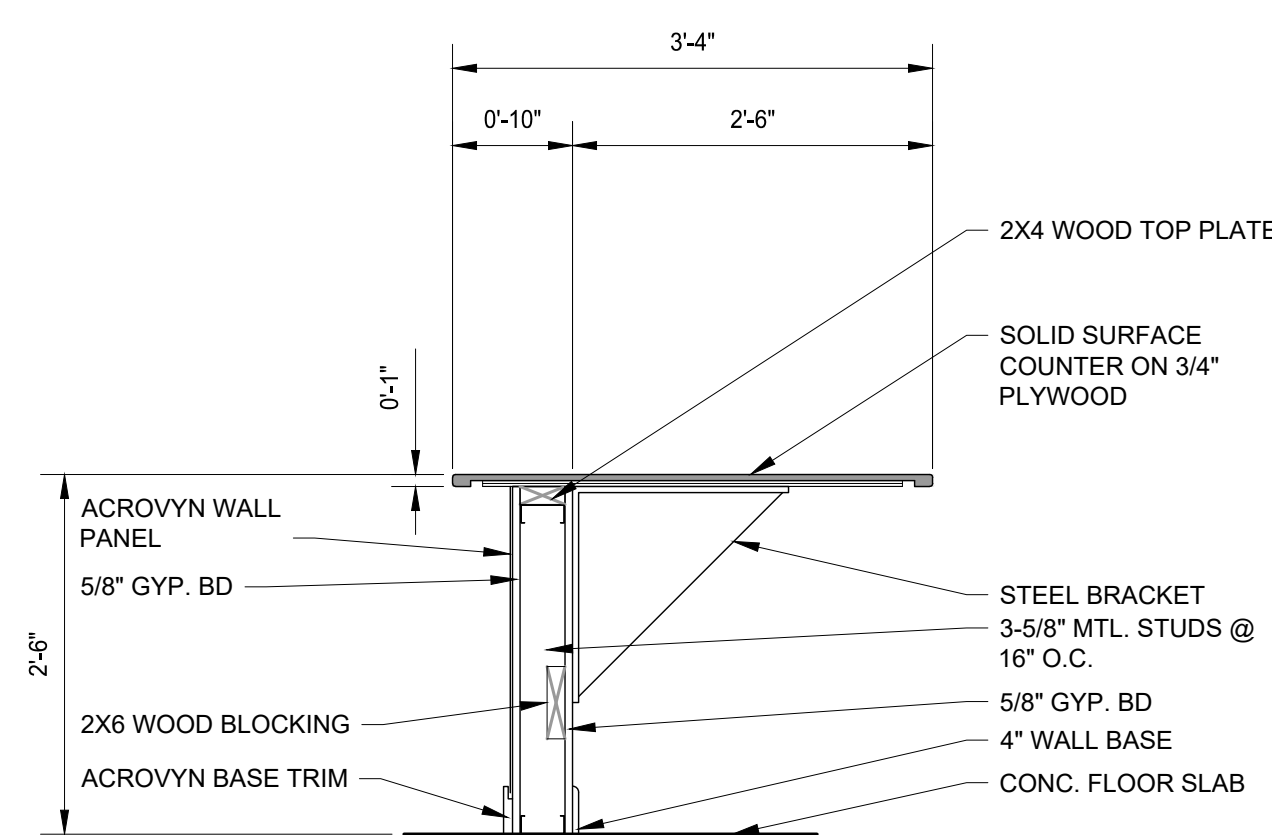
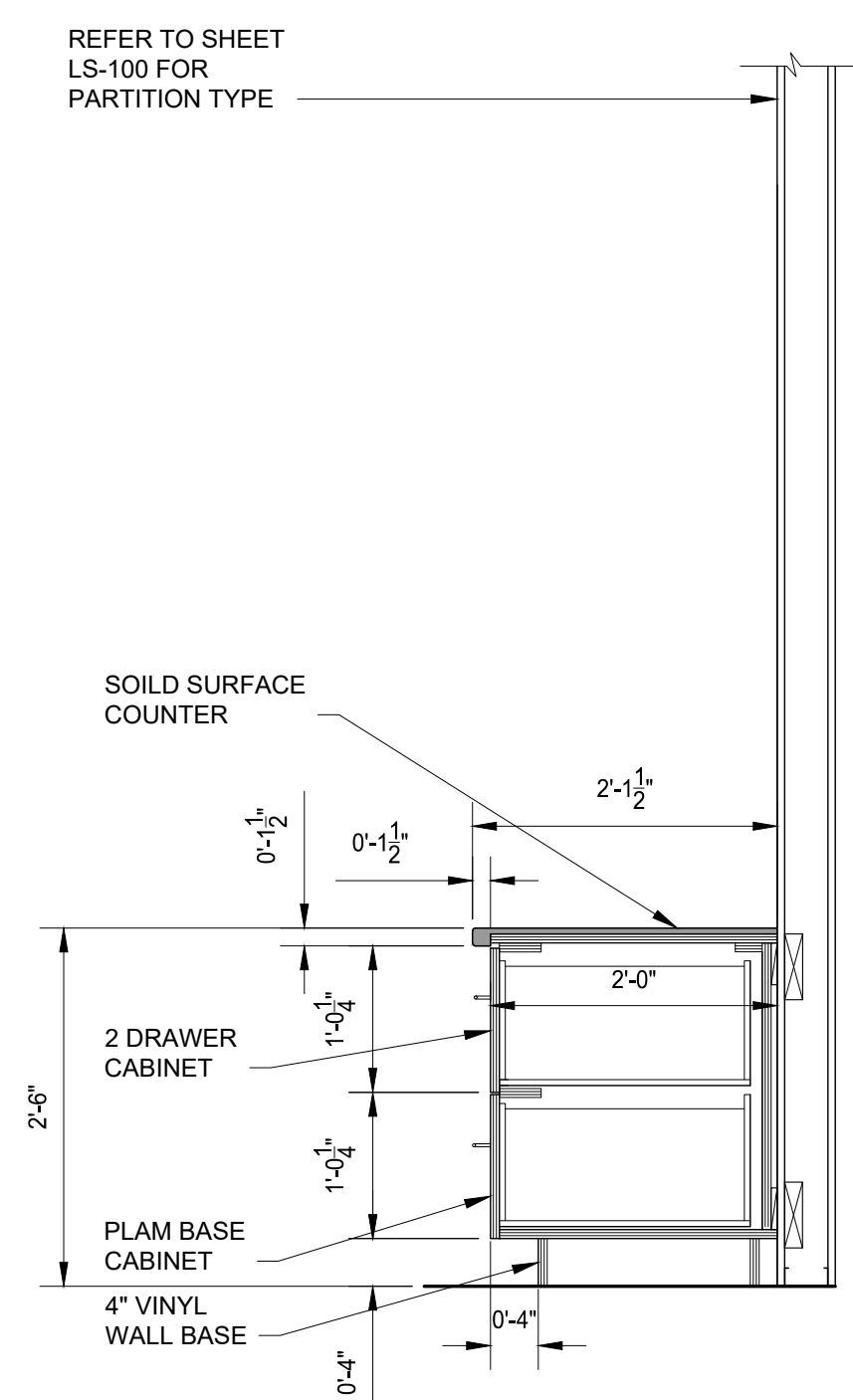
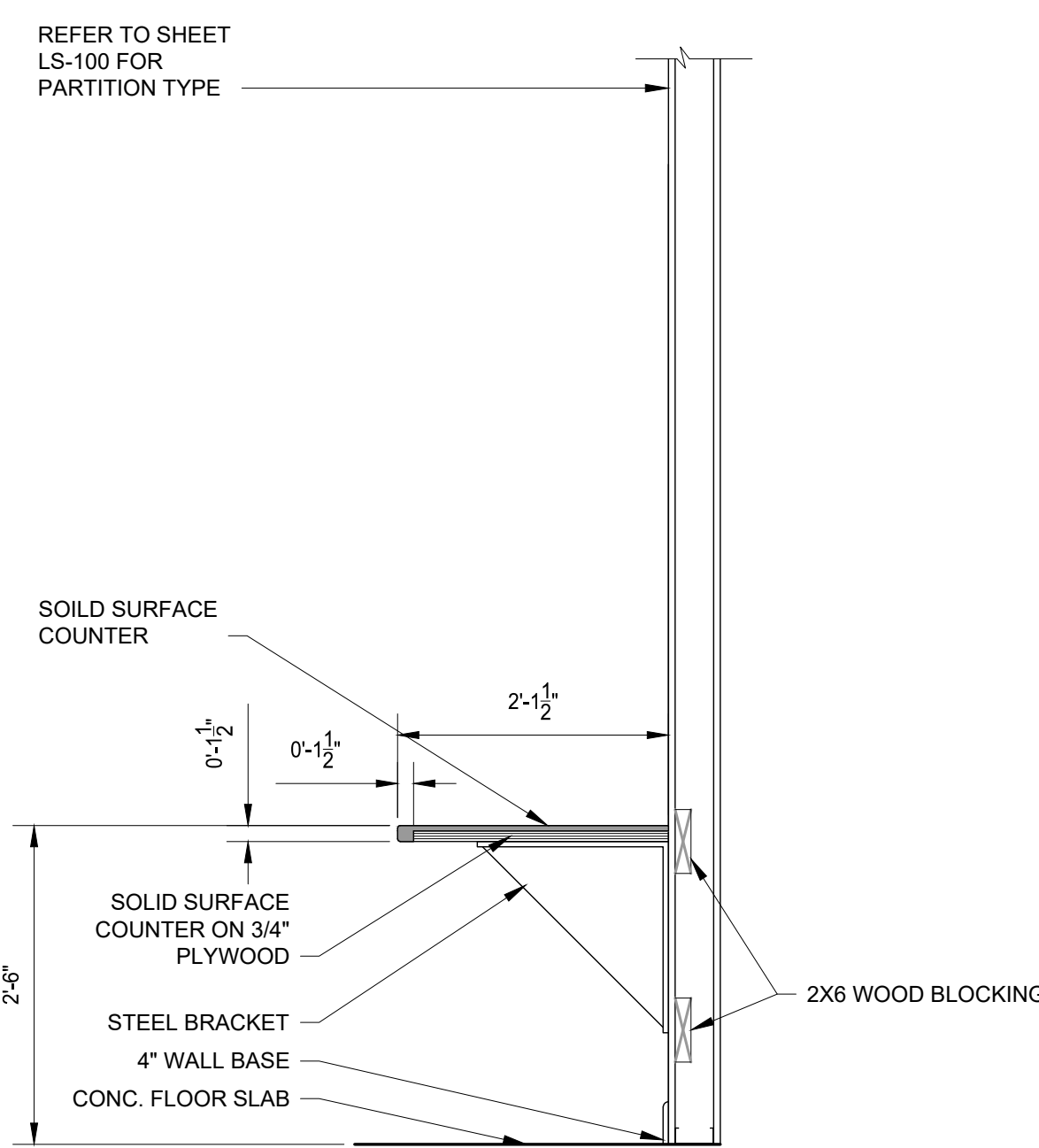
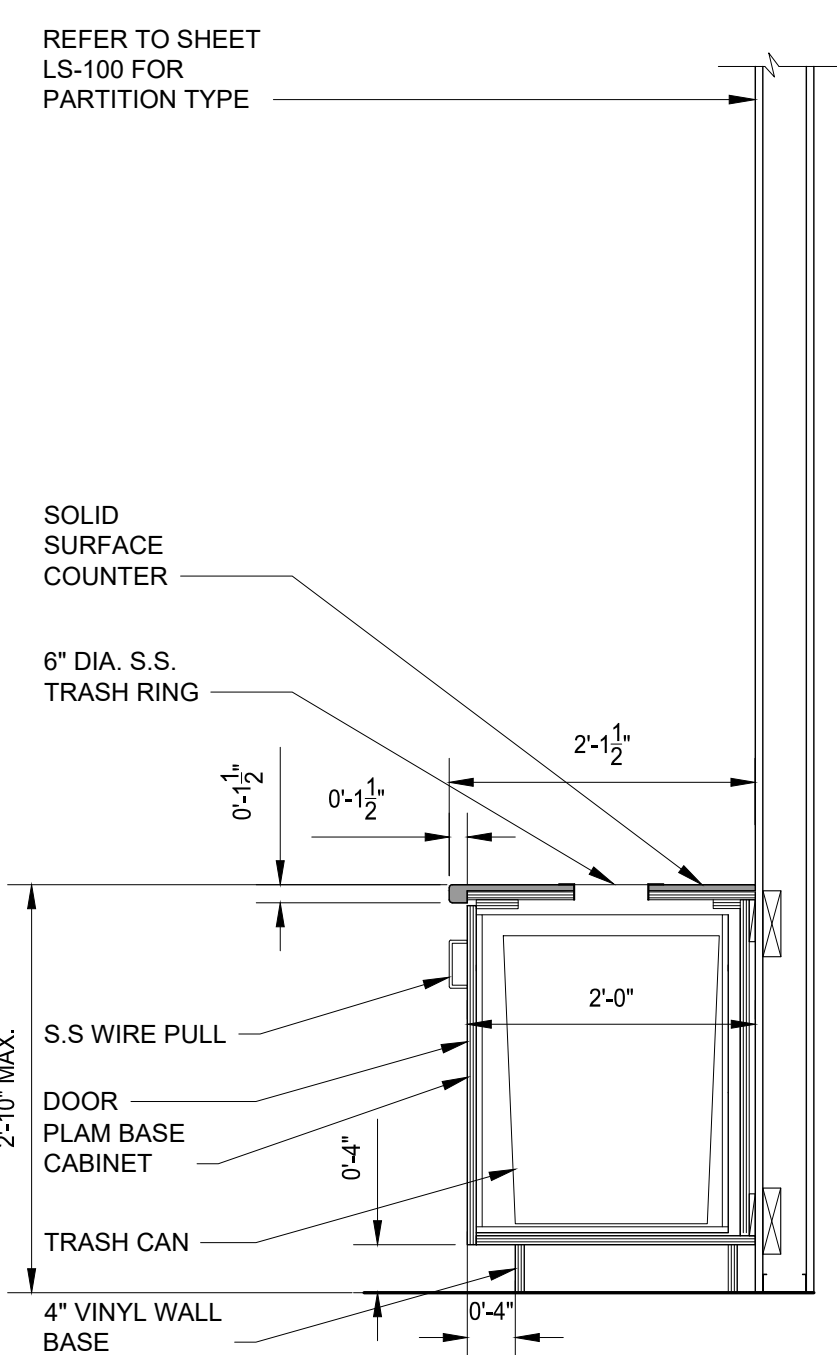
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A-400 SCALE: 3/4" = 1'-0"

9 MILLWORK DETAIL: WINDOW - STUD  
A-400 SCALE: 3/4" = 1'-0"

8 MILLWORK DETAIL: COUNTERTOP  
A-400 SCALE: 3/4" = 1'-0"

7 MILLWORK DETAIL: SINK  
A-400 SCALE: 3/4" = 1'-0"

6 MILLWORK DETAIL: COUNTERTOP  
A-400 SCALE: 3/4" = 1'-0"



5 MILLWORK DETAIL: COUNTERTOP  
A-400 SCALE: 3/4" = 1'-0"

4 MILLWORK DETAIL: COUNTERTOP  
A-400 SCALE: 3/4" = 1'-0"

3 MILLWORK DETAIL: COUNTERTOP  
A-400 SCALE: 3/4" = 1'-0"

2 MILLWORK DETAIL: RECEPTION DESK  
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1 MILLWORK DETAIL: RECEPTION DESK  
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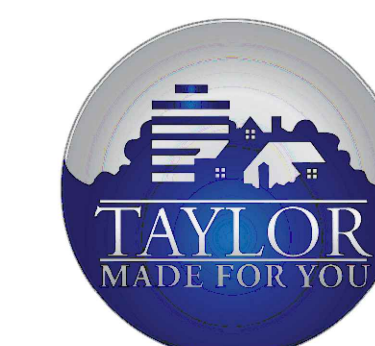
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Key Plan:



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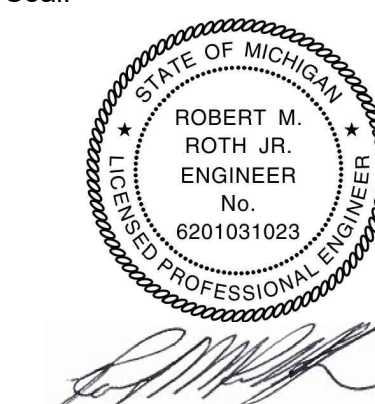
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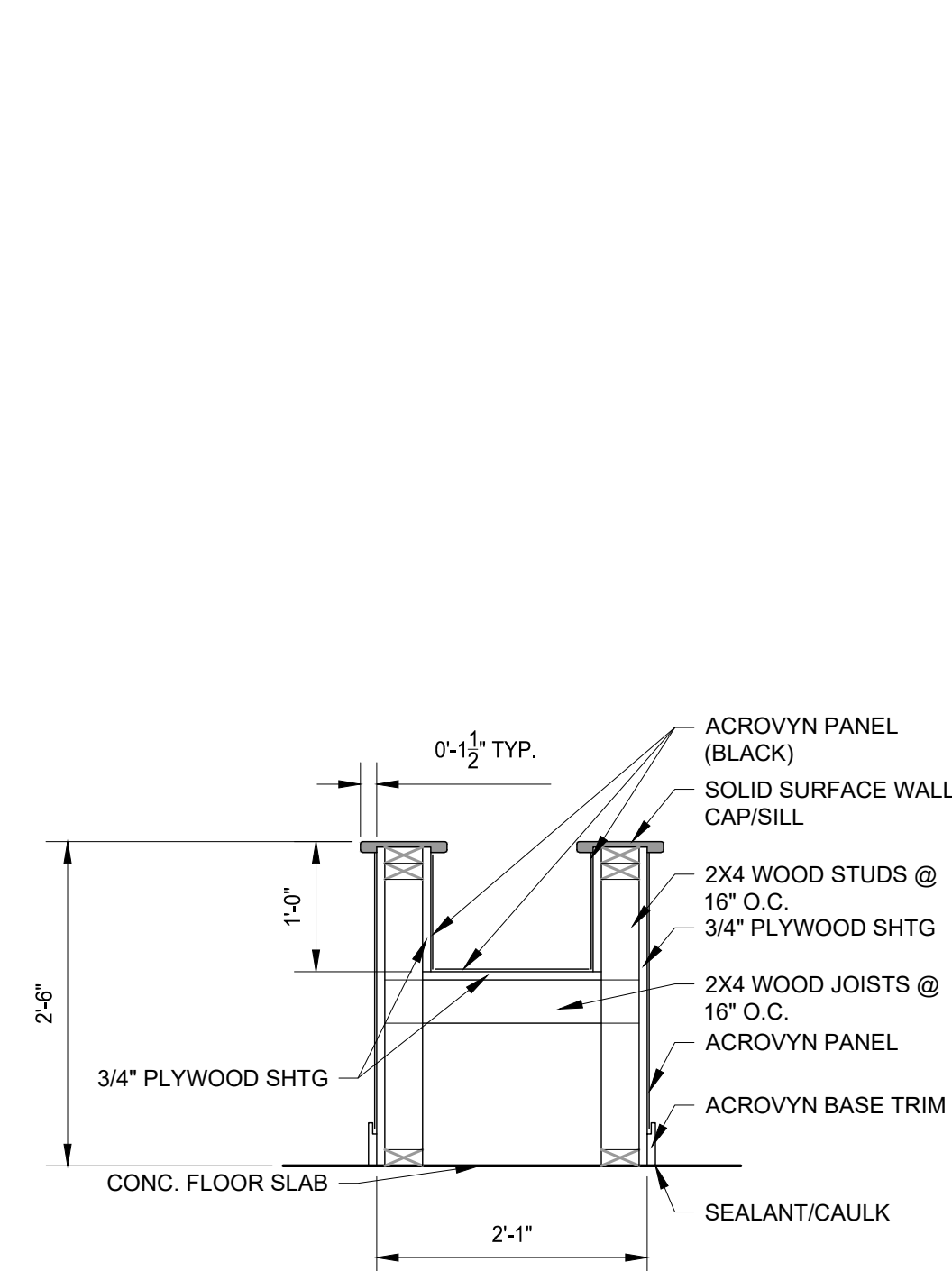
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DETAILS

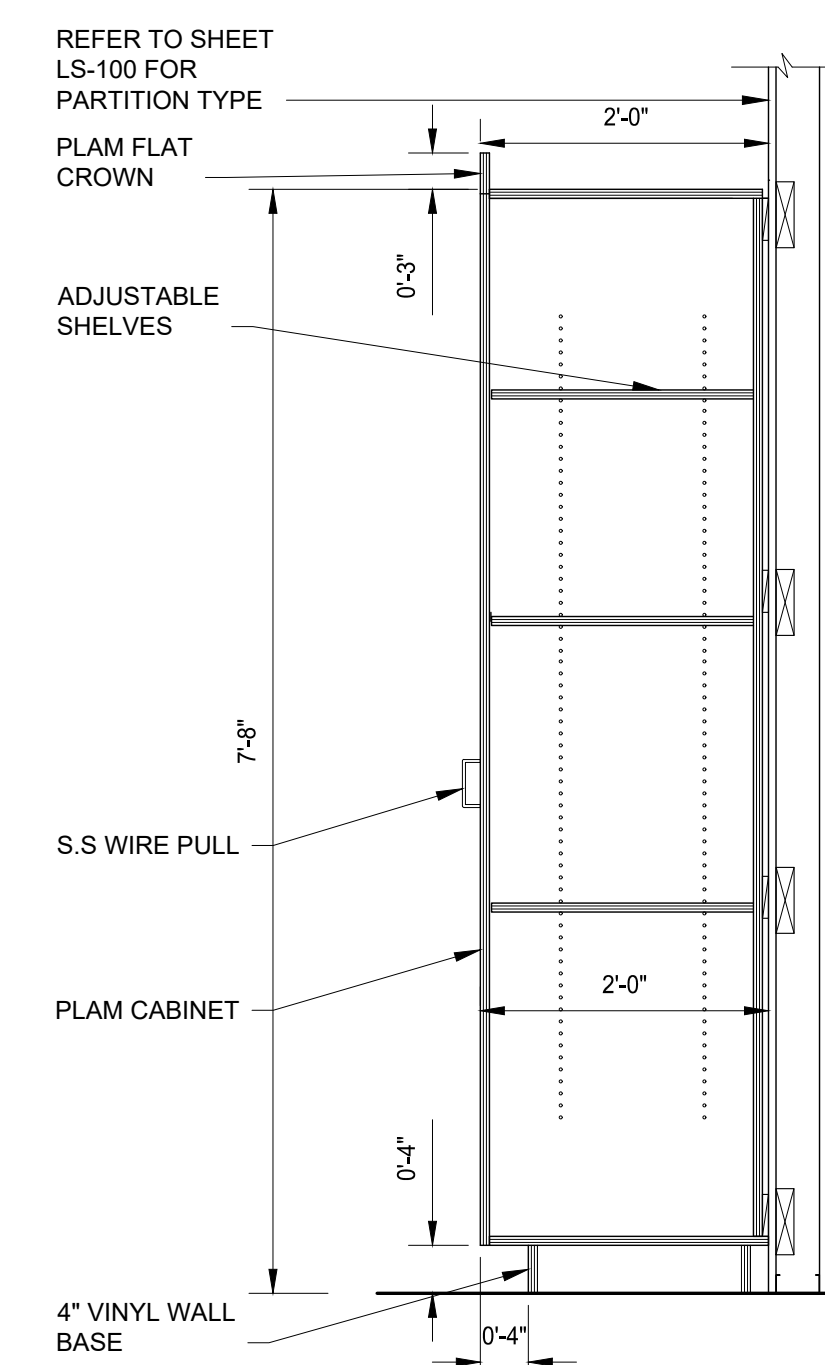
Project Number: 22712.A

Sheet Number: A-801

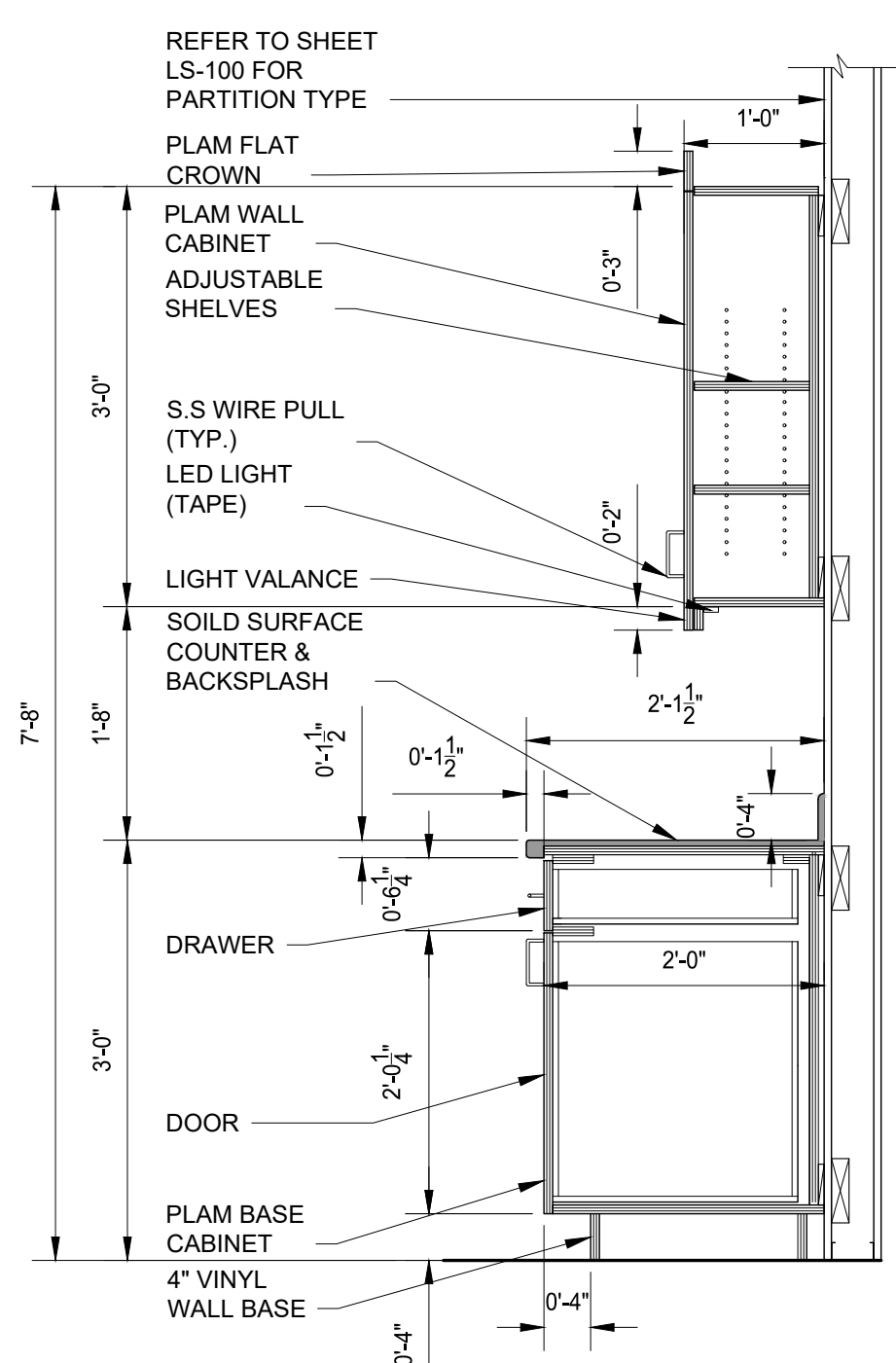
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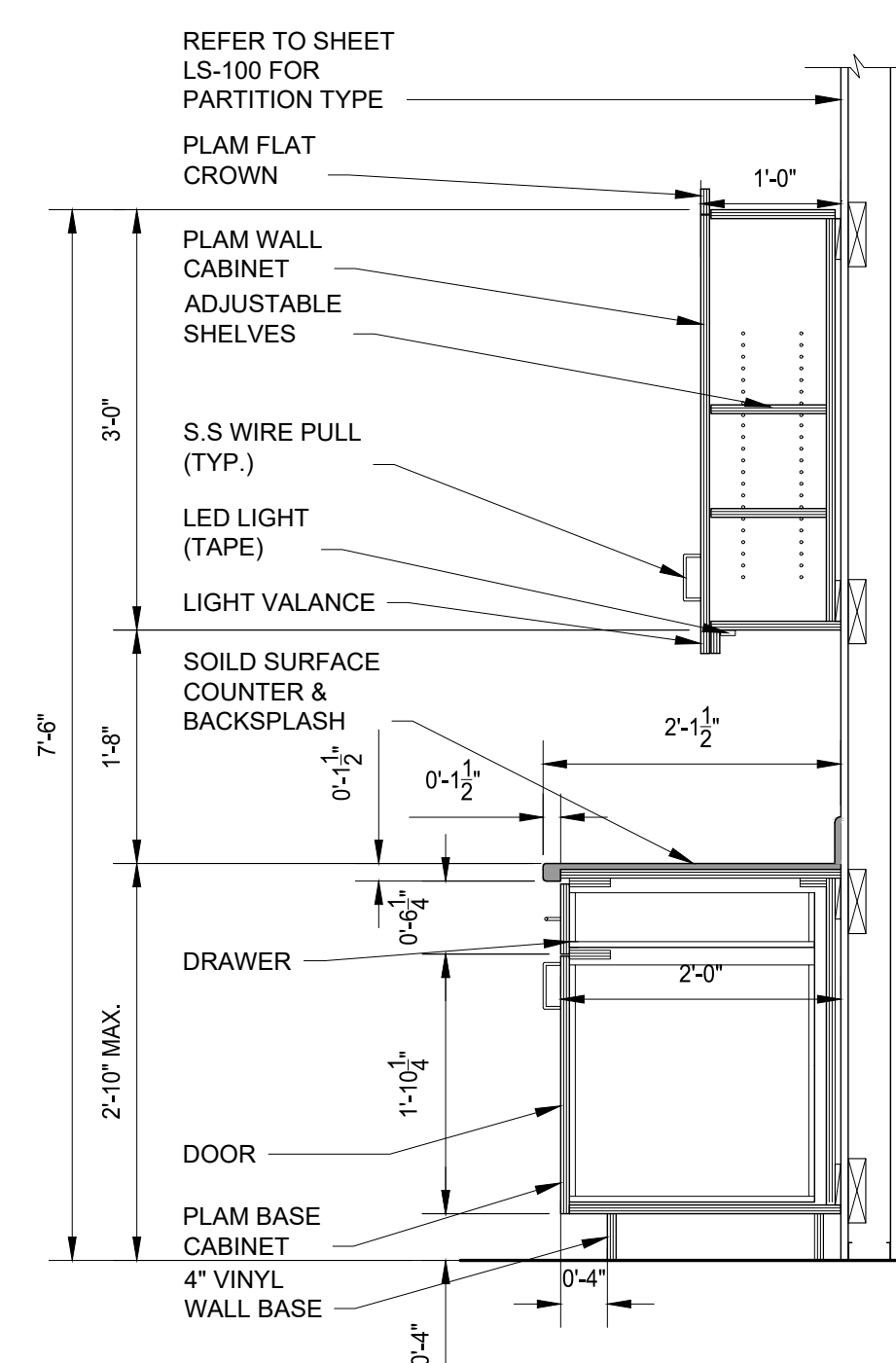
17  
A-400 MILLWORK DETAIL: PLANTER  
SCALE: 3/4" = 1'-0"



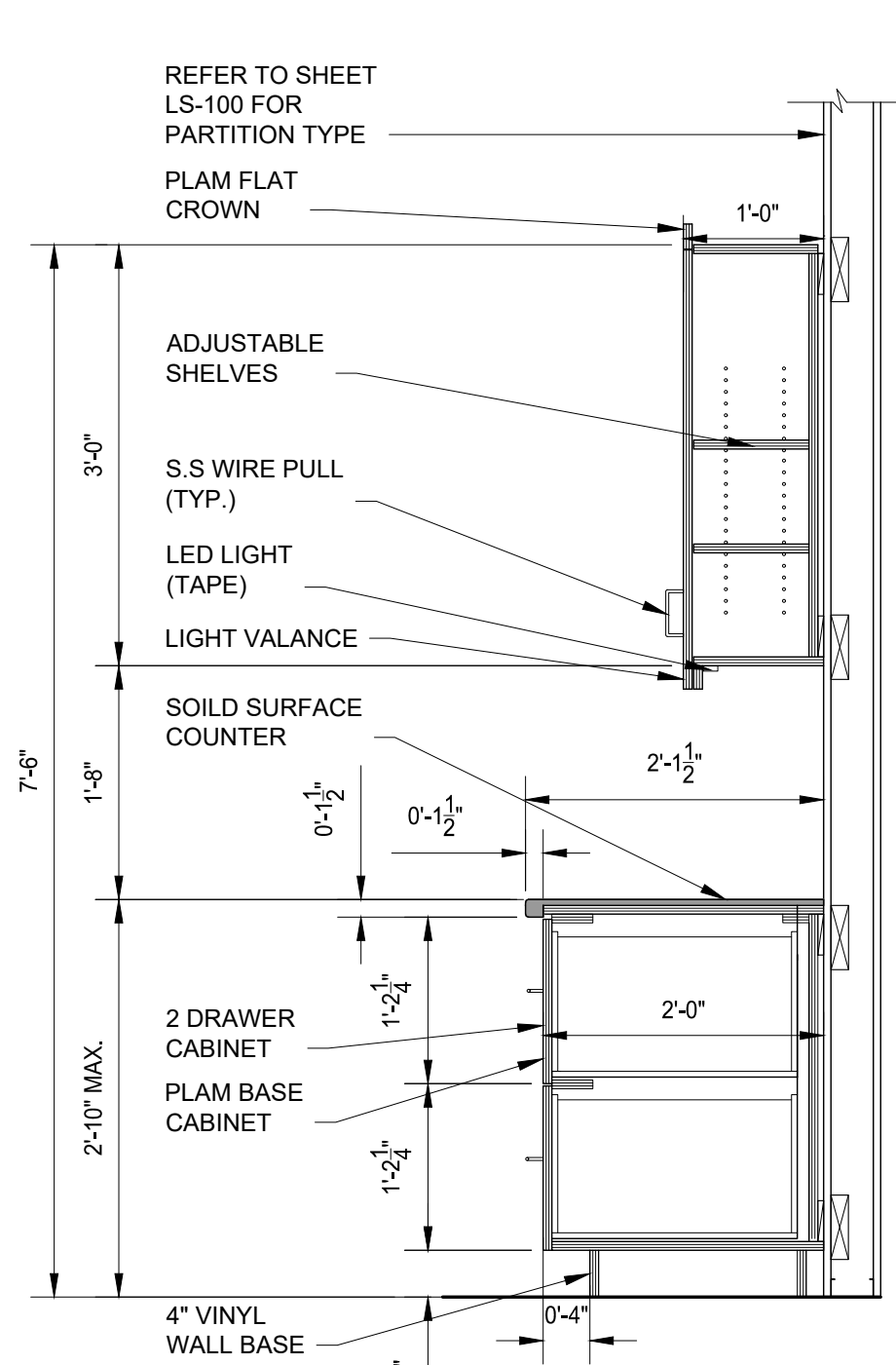
16  
A-400 MILLWORK DETAIL: CABINET  
SCALE: 3/4" = 1'-0"



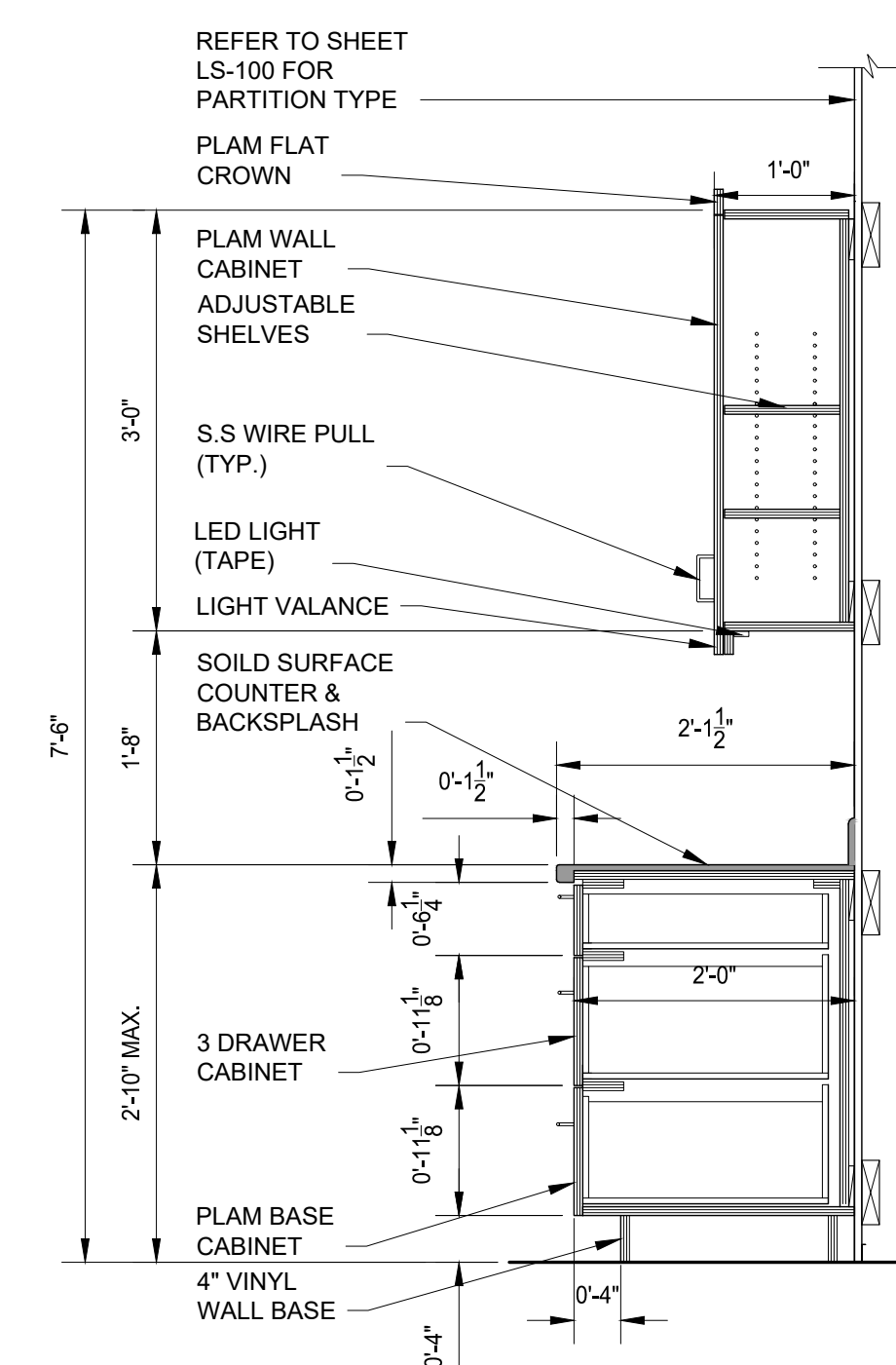
15  
A-400 MILLWORK DETAIL: COUNTERTOP  
SCALE: 3/4" = 1'-0"



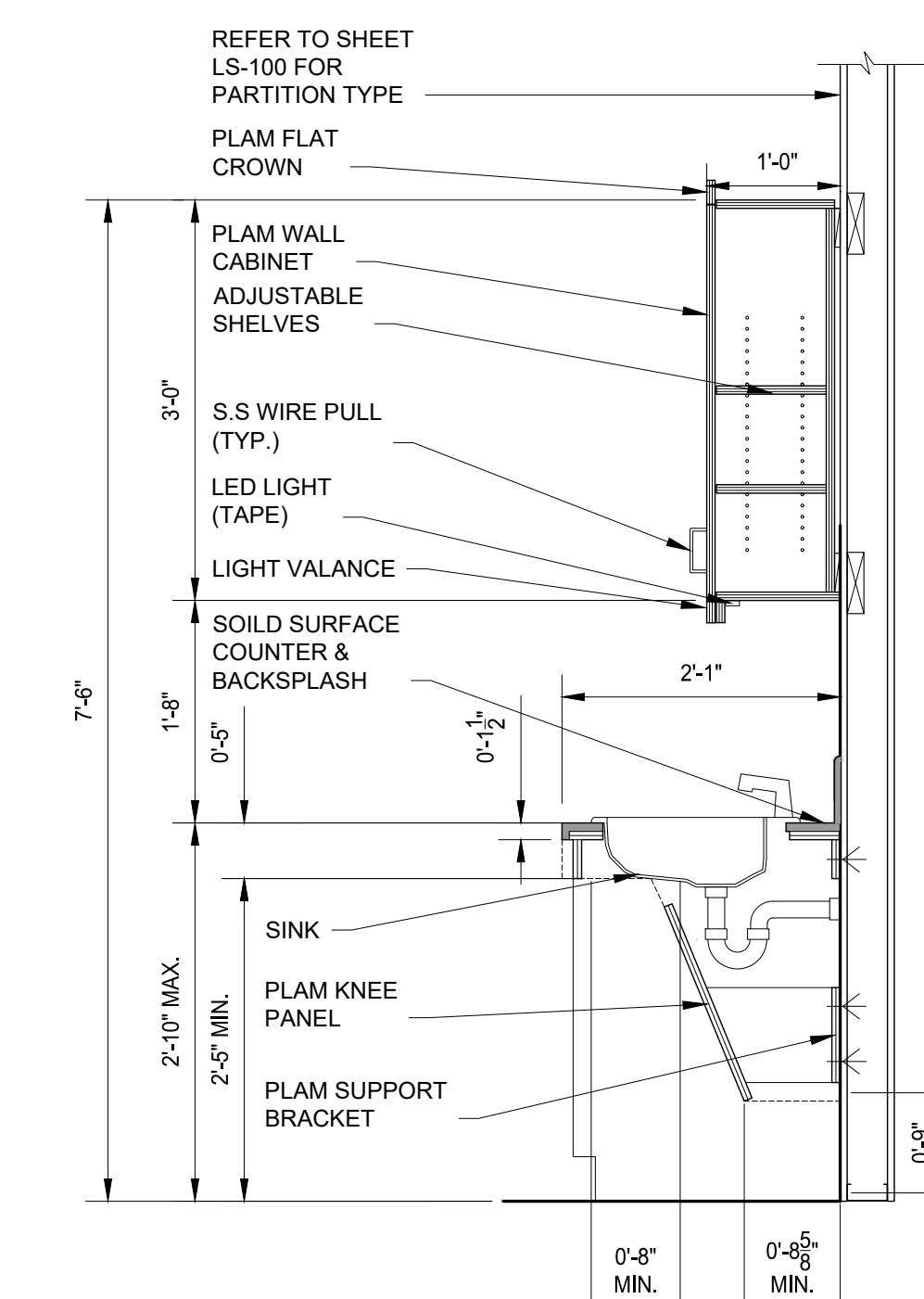
14  
A-400 MILLWORK DETAIL: COUNTERTOP  
SCALE: 3/4" = 1'-0"



13  
A-400 MILLWORK DETAIL: COUNTERTOP  
SCALE: 3/4" = 1'-0"



12  
A-400 MILLWORK DETAIL: COUNTERTOP  
SCALE: 3/4" = 1'-0"



11  
A-400 MILLWORK DETAIL: SINK  
SCALE: 3/4" = 1'-0"

**PRIMARY PRODUCT SELECTIONS**

OVERHEAD DOORS	
PRODUCT:	OVERHEAD SECTIONAL DOOR
MFR:	OVERHEAD DOOR
MODEL:	THERMACORE SECTIONAL STEEL DOOR MODEL 593
COLOR:	TBD (STANDARD COLOR SELECTION)
LOCATION:	ROOM NUMBER: 138 DELIVERY / PICK UP / STORAGE
NOTES:	1. REFER TO DOOR SCHEDULE FOR SIZES. 2. REFER TO DOOR SCHEDULE FOR FIRE RATINGS. 3. DOOR NUMBER 138B
PRODUCT:	OVERHEAD SECTIONAL DOOR
MFR:	OVERHEAD DOOR
MODEL:	EVERSENSE ALUMINUM GLASS DOOR MODEL 521S
COLOR:	TBD (STANDARD COLOR SELECTION)
LOCATION:	ROOM NUMBER: 105 MULTIPURPOSE ROOM
NOTES:	1. REFER TO DOOR SCHEDULE FOR SIZES. 2. REFER TO DOOR SCHEDULE FOR FIRE RATINGS. 3. DOOR NUMBER 105B

ROOF HATCH	
PRODUCT:	SINGLE POINT LATCH ROOF HATCH
MFR:	BABCOCKDAVIS
MODEL:	BW3636
COLOR:	HIGH REFLECTANCE WHITE POWDER COAT
NOTES:	1. 36" X 36" SIZE. REFER TO PLANS FOR LOCATION.

SKYLIGHT	
PRODUCT:	TRADITIONAL DOUBLE DOME, DECK MOUNT UNIT
MFR:	WASCO SKYLIGHTS
MODEL:	CWD2 6060
COLOR:	TBD (STANDARD COLOR SELECTION)
NOTES:	1. REFER TO PLANS FOR LOCATION.
PRODUCT:	SAFETY SCREEN
MFR:	WASCO SKYLIGHTS
MODEL:	CAEW
COLOR:	TBD (STANDARD COLOR SELECTION)
NOTES:	1. 4" X 4" HEAVY GAUGE GALVANIZED WELDED WIRE SCREEN

CANOPIES	
PRODUCT:	ARCHITECTURAL CANOPY
MFR:	MAPES ARCHITECTURAL CANOPIES
MODEL:	LUMISHADE T8-6063
COLOR:	TBD (STANDARD COLOR SELECTION)
NOTES:	1. CUSTOM SIZING. REFER TO PLANS FOR LOCATION & SIZING.

SHADE SAIL	
PRODUCT:	3-POINT SHADE SAIL
MFR:	LAWRENCE FABRIC & METAL STRUCTURES
MODEL:	CUSTOM COMMERCIAL SHADE SAIL
COLOR:	TBD (STANDARD COLOR SELECTION)
NOTES:	1. CONTACT INFO: (800) 527-3840 / (636) 861-0100

HOSE REEL	
PRODUCT:	HOSE REEL
MFR:	REEL CRAFT
MODEL:	GC83050 OLP
COLOR:	TBD (STANDARD COLOR SELECTION)
NOTES:	1.

PRE-FAB SHOWER	
PRODUCT:	ADA TRANSFER SHOWER - FOUR PIECE 42" X 38"
MFR:	BARRIER FREE ARCHITECTURALS INC.
MODEL:	4LSS4238A5T
COLOR:	SMOOTH WALL - WHITE
NOTES:	1.

APPLIANCES	
PRODUCT:	(1) FULL SIZE REFRIGERATOR (2) BELOW COUNTER REFRIGERATORS (2) MICROWAVES (1) DISHWASHER (2) SETS OF WASHERS & DRYERS
NOTES:	1. GC SHALL SUPPLY & INSTALL THE APPLIANCES ABOVE. 2. GC TO INCLUDE AN ALLOWANCE OF \$14,000 WITHIN BASE BID. 3. FINAL PRODUCT SELECTIONS TO BE MADE BY ARCHITECT / OWNER AT A LATER DATE.

ARTIFICIAL PLANTINGS	
PRODUCT:	INTERIOR FAUX PLANTS
MFR:	COMMERCIAL SILK
MODEL:	TBD
COLOR:	TBD
NOTES:	1. CONTACT INFO: 9901 West 74th St. Minneapolis, MN 55344, USA Toll Free: 800-241-2718 Main: 952-934-7666 Fax: 952-934-3807 info@commercialstilk.com 2. GC SHALL PROVIDE A \$2,500 ALLOWANCE WITHIN THEIR BASE BID TO SUPPLY & INSTALL ARTIFICIAL PLANTS WITHIN THE KENNEL PLANTER BOXES.

RESTROOM ACCESSORIES	
PRODUCT:	FLOOR-STANDING WASTE RECEPTACLE WITH OPEN TOP
MFR:	BOBRICK
MODEL:	B-2260
COLOR:	SATIN FINISH STAINLESS STEEL
NOTES:	1.
PRODUCT:	WELDED FRAME MIRROR
MFR:	BOBRICK
MODEL:	B-290 2436
COLOR:	SATIN FINISH STAINLESS STEEL
NOTES:	1.
PRODUCT:	AUTOMATIC WALL-MOUNTED FOAM SOAP DISPENSER
MFR:	BOBRICK
MODEL:	B-2013
COLOR:	SATIN FINISH STAINLESS STEEL
NOTES:	1.
PRODUCT:	SURFACE-MOUNTED TOILET TISSUE DISPENSER
MFR:	BOBRICK
MODEL:	B-76867
COLOR:	SATIN FINISH STAINLESS STEEL
NOTES:	1.
PRODUCT:	SURFACE-MOUNTED PAPER TOWEL DISPENSER WITH TOWELMATE
MFR:	BOBRICK
MODEL:	B-4262
COLOR:	SATIN FINISH STAINLESS STEEL
NOTES:	1.
PRODUCT:	STRAIGHT GRAB BAR
MFR:	BOBRICK
MODEL:	B-6806 X 18", B-6806 X 30", B-6806 X 42"
COLOR:	SATIN FINISH STAINLESS STEEL
NOTES:	1.

ROOFTOP / ROOF ACCESS LADDER	
PRODUCT:	FIXED STEEL LADDER
MFR:	FSINDUSTRIES
MODEL:	WLF50207-Y (WITH WALK-THRU)
COLOR:	SAFETY YELLOW FINISH (ONLY OPTION)
NOTES:	1. SEE PLANS FOR LOCATION. 2. ROOFTOP LADDER
PRODUCT:	FIXED STEEL LADDER
MFR:	FSINDUSTRIES
MODEL:	WLF50111-Y (WITHOUT WALK-THRU)
COLOR:	SAFETY YELLOW FINISH (ONLY OPTION)
NOTES:	1. SEE PLANS FOR LOCATION. 2. ROOF ACCESS LADDER

KENNELS	
PRODUCT:	CANINE KENNELS
MFR:	MIDMARK CORP.
MODEL:	SANI-KENNEL
COLOR:	TBD (STANDARD COLOR SELECTION)
NOTES:	1. STAINLESS STEEL FRAME AND GATE COMPONENTS 2. FRP WALL PANELS 3. STAINLESS STEEL DIVIDER GATE 4. KENNEL HEIGHT IS 6'-4" 5. SEE PLANS FOR LAYOUT 6. PRODUCT PROVIDED BY OWNER
PRODUCT:	FELINE KENNELS
MFR:	MIDMARK CORP.
MODEL:	RAINTREE CAT CONDO
COLOR:	TBD (STANDARD COLOR SELECTION)
NOTES:	1. LAMINATE FINISH AVAILABLE IN SEVERAL COLORS / WOODGRAIN PATTERNS 2. EACH CAGE HAS 2 ROOMS 1 IS A LITTER BOX COMPARTMENT 3. DOOR FRONTS ARE AN OPEN AIR MESH TYPE DESIGN 4. SEE PLANS FOR LAYOUT 5. PRODUCT PROVIDED BY OWNER

BRICK	
PRODUCT:	BRICK
MFR:	THE BELDEN BRICK SALES COMPANY
MODEL:	26-HB FL
COLOR:	TO MATCH EXIST.
NOTES:	1. SIZE: 3-5/8" X 7-5/8" MOLDED

EXTERIOR SIDING	
PRODUCT:	PRE-FIN METAL SIDING
MFR:	BERRIDGE
MODEL:	RS-145 PANEL
COLOR:	ROYAL BLUE
NOTES:	1. COLOR 1
PRODUCT:	PRE-FIN METAL SIDING
MFR:	BERRIDGE
MODEL:	FW-1025 PANEL
COLOR:	ZINC GREY
NOTES:	1. COLOR 2

EXTERIOR SIGNAGE	
PRODUCT:	(1) DIRECTIONAL PEDESTAL SIGN (3) WALL MOUNTED FLAT PLAQUE SIGNS (2) ADA POLE MOUNTED PARKING SIGNS (1) LARGE BACK-LIT 'CITY LOGO' WALL MOUNTED SIGN (2) SURFACE MOUNTED SIGNS AT EXISTING MASONRY MONUMENT SIGN BASE
NOTES:	1. GC SHALL SUPPLY & INSTALL ALL EXTERIOR SIGNAGE 2. GC TO INCLUDE AN ALLOWANCE OF \$14,000 WITHIN BASE BID FOR SIGNS AS LISTED ABOVE.

ARTIFICIAL TURF	
PRODUCT:	ARTIFICIAL TURF
MFR:	SPORT Z TURF
MODEL:	TBD
COLOR:	TBD
NOTES:	1. CONTACT INFO: 734-772-5335

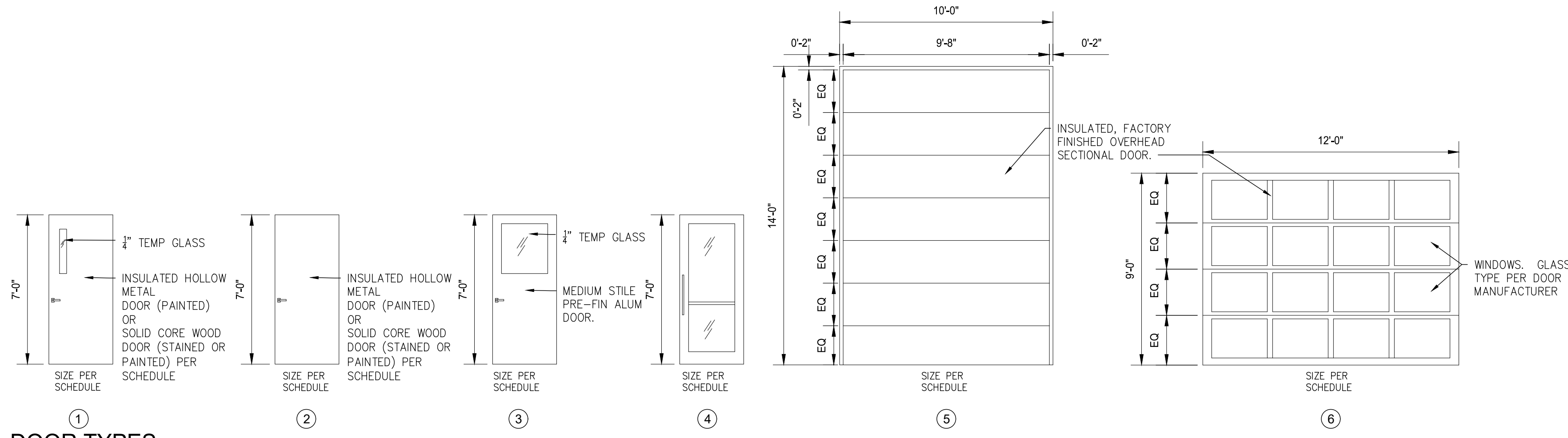
DECORATIVE ALUMINUM FENCE	
PRODUCT:	ALUMINUM FENCING
MFR:	ALUMI-GUARD
MODEL:	FLAT TOP COMMERCIAL ASCOT 3 RAIL WITH RINGS
COLOR:	BLACK
NOTES:	1. CONTACT INFO: 877-258-6448 / info@alumi-guard.com

EXTERIOR SIDING	
PRODUCT:	PRE-FIN METAL SIDING
MFR:	BERRIDGE
MODEL:	RS-145 PANEL
COLOR:	ROYAL BLUE
NOTES:	1. COLOR 1
PRODUCT:	PRE-FIN METAL SIDING
MFR:	BERRIDGE
MODEL:	FW-1025 PANEL
COLOR:	ZINC GREY
NOTES:	1. COLOR 2

EXTERIOR SIGNAGE	
PRODUCT:	(1) DIRECTIONAL PEDESTAL SIGN (3) WALL MOUNTED FLAT PLAQUE SIGNS (2) ADA POLE MOUNTED PARKING SIGNS (1) LARGE BACK-LIT 'CITY LOGO' WALL MOUNTED SIGN (2) SURFACE MOUNTED SIGNS AT EXISTING MASONRY MONUMENT SIGN BASE
NOTES:	1. GC SHALL SUPPLY & INSTALL ALL EXTERIOR SIGNAGE 2. GC TO INCLUDE AN ALLOWANCE OF \$14,000 WITHIN BASE BID FOR SIGNS AS LISTED ABOVE.

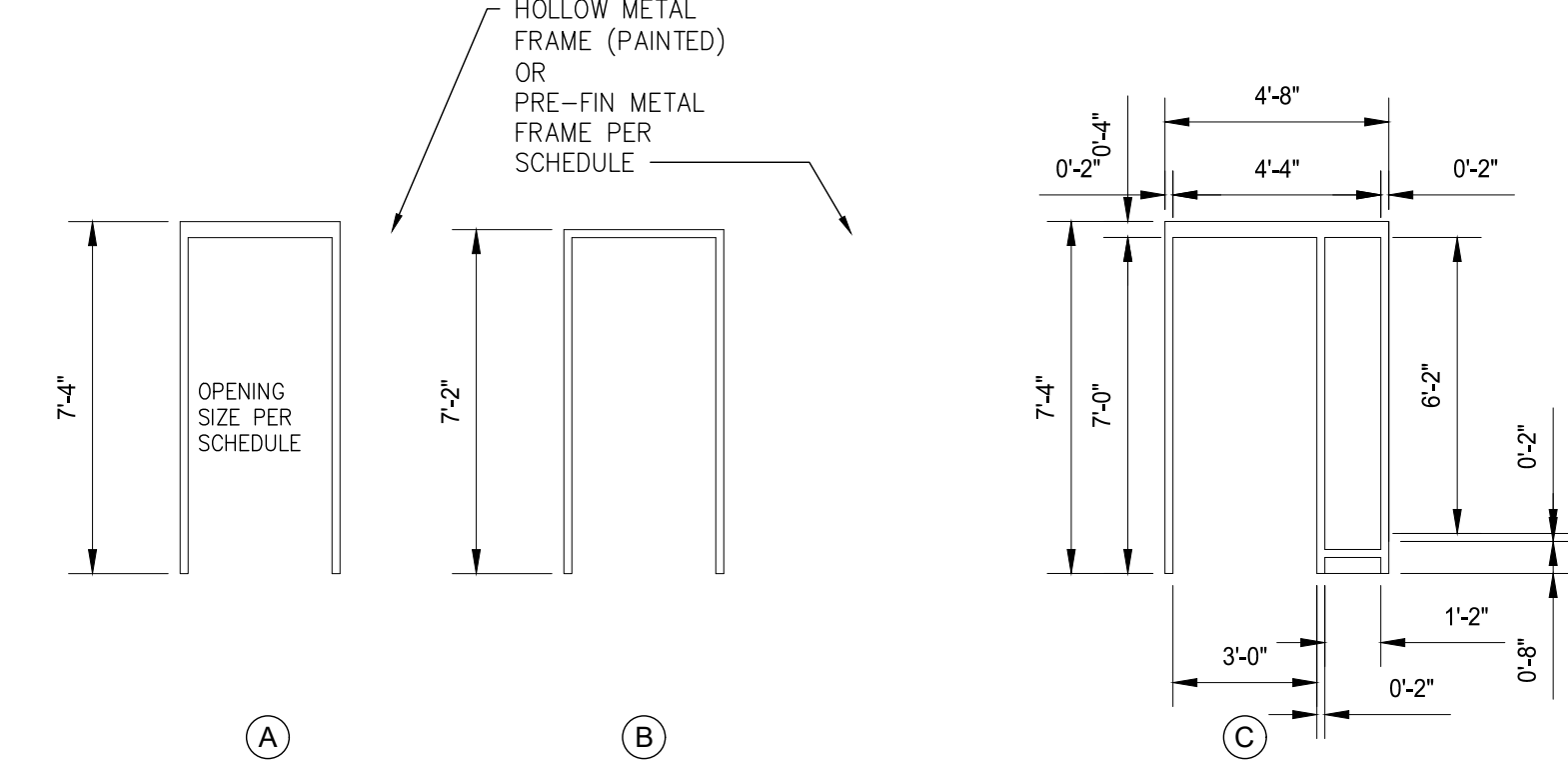
ARTIFICIAL TURF	
PRODUCT:	ARTIFICIAL TURF
MFR:	SPORT Z TURF
MODEL:	TBD
COLOR:	TBD
NOTES:	1. CONTACT INFO: 734-772-5335

DOOR SCHEDULE																			
DOOR NO.	ROOM NAME	SIZE		DOOR					FRAME					DETAILS					COMMENTS
		WIDTH	HEIGHT	DOOR TYPE	DOOR ELEVATION	DOOR FINISH	FIRE RATING	HARDWARE SET	FRAME TYPE	FRAME ELEVATION	FRAME FINISH	FIRE RATING	THRESHOLD	HEAD	JAMB	SILL			
100	LOBBY	6'-0"	7'-0"	ALUM	4	FPT	NONE	1	ALUM	J	FPT	NONE	NONE						
101	VESTIBULE	6'-0"	7'-0"	ALUM	4	FPT	NONE	1	ALUM	I	FPT	NONE	ALUM						ELECTRIC STRIKE
103	MEN'S TOILET ROOM	3'-0"	7'-0"	SC	2	ST	NONE	7	HM	B	PT	NONE	NONE						
104	WOMEN'S TOILET ROOM	3'-0"	7'-0"	SC	2	ST	NONE	7	HM	B	PT	NONE	NONE						
105A	MULTIPURPOSE ROOM	3'-0"	7'-0"	HM	2	PT	NONE	6	HM	K	PT	NONE	ALUM						
105B	MULTIPURPOSE ROOM	12'-0"	10'-0"	OH	6	FPT	NONE	11	ALUM	-	FPT	NONE	ALUM						
106	MULTIPURPOSE STORAGE ROOM	3'-0"	7'-0"	SC	2	ST	NONE	2	HM	B	PT	NONE	ALUM						
107	DOG VISIT ROOM	3'-0"	7'-0"	HM	2	PT	NONE	2	HM	D	PT	NONE	ALUM						
108	DOG VISIT ROOM	3'-0"	7'-0"	HM	2	PT	NONE	2	HM	D	PT	NONE	ALUM						
109	DOG VISIT ROOM	3'-0"	7'-0"	HM	2	PT	NONE	2	HM	D	PT	NONE	ALUM						
110	MECHANICAL / ELECTRICAL ROOM	3'-0"	7'-0"	SC	2	ST	NONE	4	HM	B	PT	NONE	ALUM						
111A	HALLWAY	3'-0"	7'-0"	ALUM	4	FPT	NONE	1	ALUM	D	FPT	NONE	ALUM						ELECTRIC STRIKE
111B	HALLWAY	3'-0"	7'-0"	SC	3	ST	NONE	9	HM	A	PT	NONE	ALUM						
112A	EMPLOYEE BREAK ROOM	3'-0"	7'-0"	SC	2	ST	NONE	6	HM	E	PT	NONE	NONE						
112B	EMPLOYEE BREAK ROOM	3'-0"	7'-0"	SC	2	PT	NONE	6	HM	E	PT	NONE	ALUM						
113	OFFICE	3'-0"	7'-0"	SC	2	PT	NONE	5	HM	D	PT	NONE	NONE						
114	OFFICE	3'-0"	7'-0"	SC	2	PT	NONE	5	HM	D	PT	NONE	NONE						
115	OFFICE	3'-0"	7'-0"	SC	2	PT	NONE	5	HM	D	PT	NONE	NONE						
116	OFFICE	3'-0"	7'-0"	SC	2	PT	NONE	5	HM	D	PT	NONE	NONE						
117	MECHANICAL / ELECTRICAL ROOM	3'-0"	7'-0"	SC	2	PT	NONE	4	HM	B	PT	NONE	ALUM						
118	HALLWAY	3'-0"	7'-0"	SC	2	ST	NONE	6	HM	D	PT	NONE	ALUM						
119A	HALLWAY	3'-0"	7'-0"	HM	2	PT	NONE	2	HM	C	PT	NONE	NONE						
119B	HALLWAY	3'-0"	7'-0"	SC	1	ST	NONE	2	HM	B	PT	NONE	NONE						
120	HALLWAY	3'-0"	7'-0"	SC	1	ST	NONE	6	HM	B	PT	NONE	ALUM						ELECTRIC STRIKE
121	EMPLOYEE WOMEN'S TOILET ROOM	3'-0"	7'-0"	SC	2	PT	NONE	7	HM	B	PT	NONE	ALUM						
122	EMPLOYEE MEN'S TOILET ROOM	3'-0"	7'-0"	SC	2	PT	NONE	7	HM	B	PT	NONE	ALUM						
123	SHOWER	3'-0"	7'-0"	SC	2	PT	NONE	8	HM	B	PT	NONE	ALUM						
124A	HALLWAY	3'-0"	7'-0"	HM	3	PT	NONE	6	HM	L	PT	NONE	ALUM						
124B	HALLWAY	3'-0"	7'-0"	SC	3	ST	NONE	6	HM	B	PT	NONE	ALUM						ELECTRIC STRIKE
125	CAT PLAY / VISIT ROOM	3'-0"	7'-0"	HM	3	PT	NONE	2	HM	B	PT	NONE	NONE						
126	CAT PLAY ROOM	3'-0"	7'-0"	HM	3	PT	NONE	2	HM	M	PT	NONE	NONE						
127	CAT PLAY ROOM	3'-0"	7'-0"	HM	3	PT	NONE	2	HM	M	PT	NONE	NONE						
128A	FELINE KENNEL	3'-0"	7'-0"	SC	3	PT	NONE	9	HM	B	PT	NONE	ALUM						
128B	FELINE KENNEL	3'-0"	7'-0"	SC	3	PT	NONE	9	HM	B	PT	NONE	ALUM						
130	MISC. STORAGE	3'-0"	7'-0"	SC	2	PT	NONE	4	HM	B	PT	NONE	NONE						
131	MECHANICAL ROOM	3'-0"	7'-0"	SC	2	PT	NONE	4	HM	B	PT	NONE	NONE						
132A	INTAKE CHECK IN / GUEST VET.	3'-0"	7'-0"	ALUM	3	FPT	NONE	1	ALUM	E	FPT	NONE	ALUM						ELECTRIC STRIKE
132B	INTAKE CHECK IN / GUEST VET.	3'-0"	7'-0"	SC	1	PT	NONE	6	HM	B	PT	NONE	ALUM						ELECTRIC STRIKE
133	CAT ISO.	3'-0"	7'-0"	SC	3	PT	NONE	9	HM	B	PT	NONE	ALUM						
134	DOG ISO.	3'-0"	7'-0"	SC	3	PT	NONE	9	HM	B	PT	NONE	ALUM						
135A	ENTRY FOYER	EXST	EXST	HM	1	PT	NONE	1	EXST	EXST	PT	EXST	EXST						ELECTRIC STRIKE
135B	ENTRY FOYER	3'-0"	7'-0"	SC	1	PT	NONE	2	HM	B	PT	NONE	ALUM						
136	CAT HOLD / CAT RECOVERY	3'-0"	7'-0"	SC	3	PT	NONE	9	HM	B	PT	NONE	ALUM						
137	HALLWAY	3'-0"	7'-0"	SC	2	PT	NONE	2	HM	B	PT	NONE	NONE						
138A	DELIVERY / PICK UP / STORAGE	3'-0"	7'-0"	SC	2	PT	NONE	4	HM	B	PT	NONE	ALUM						
138B	DELIVERY / PICK UP / STORAGE	10'-0"	14'-0"	OH	5	FPT	NONE	10	ALUM	-	FPT	NONE	ALUM						
139A	EUTH. ROOM	3'-0"	7'-0"	SC	2	PT	NONE	8	HM	B	PT	NONE	ALUM						



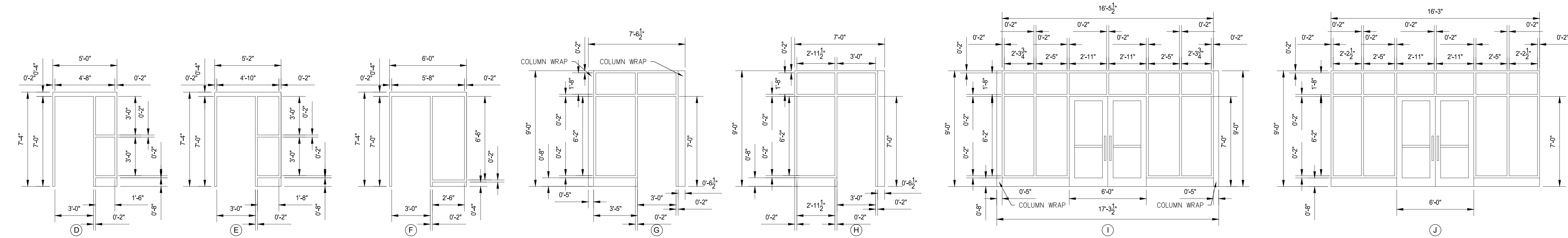
**DOOR TYPES**

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



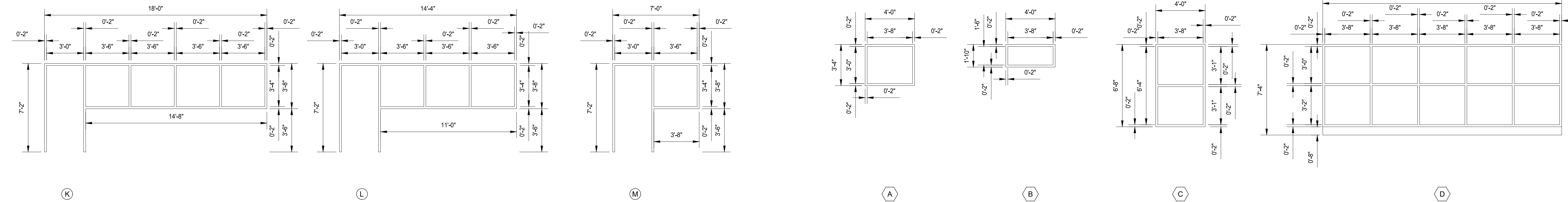
**FRAME TYPES**

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



**FRAME TYPES**

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

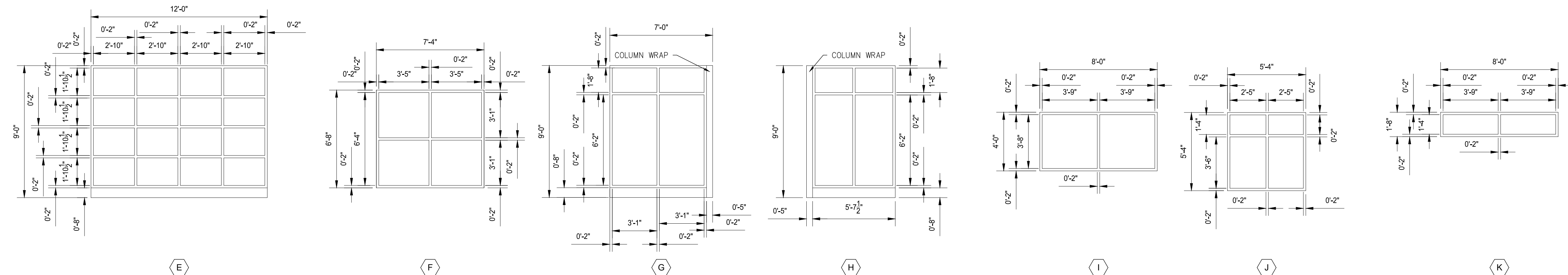


**FRAME TYPES**

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

**WINDOW TYPES**

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



**WINDOW TYPES**

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



**Sidock Group**  
ARCHITECTS • ENGINEERS • CONSULTANTS

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Novi, Michigan 48374  
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Novi • Wyandotte • Muskegon  
Lansing • Gaylord • Sault Ste. Marie  
Williamsport, PA • Tampa, FL  
www.sidockgroup.com

Key Plan:



Client:

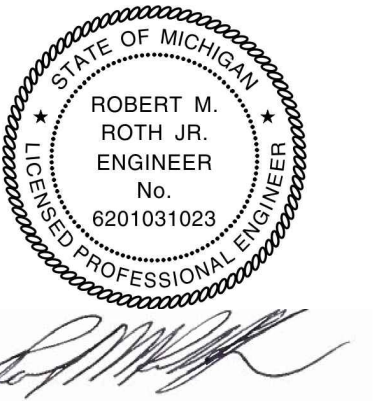
City of Taylor  
23555 Goddard Rd.  
Taylor, MI 48180

Project:

City of Taylor  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180

Seal:



Date	Issued For
09-13-2023	25% Complete Review
10-18-2023	50% Complete Review
12-21-2023	Owner Review
01-17-2024	Permit Review

Drawn: WDJ/GNC  
Checked: WD  
Approved: MR

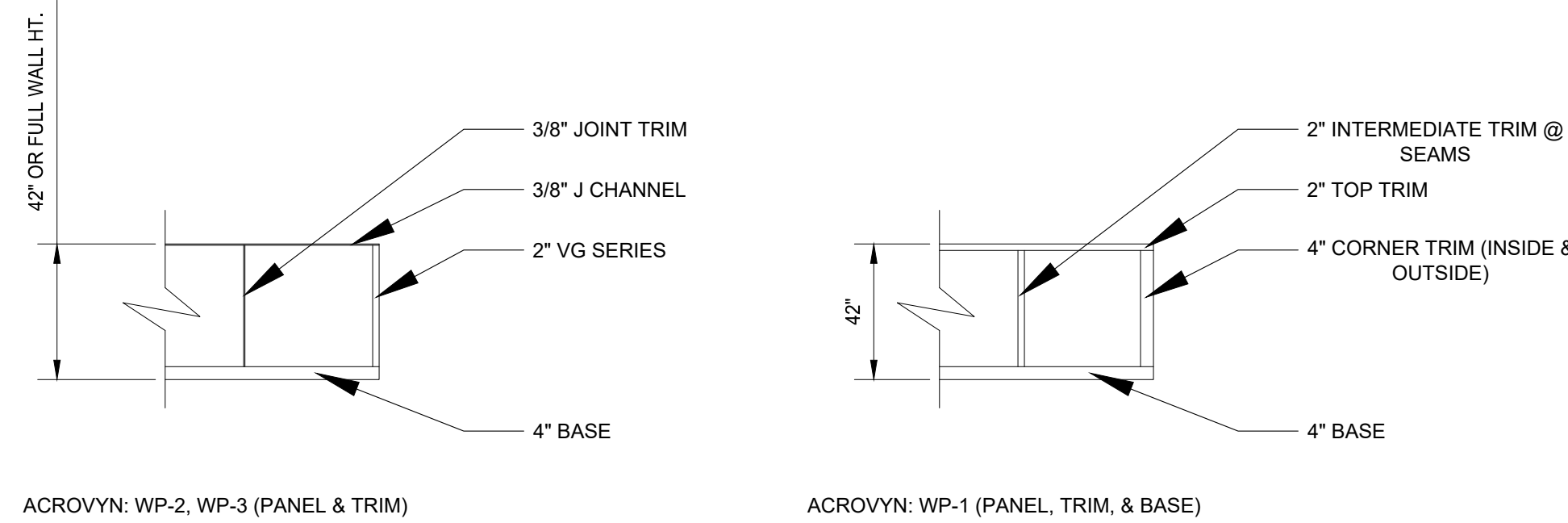
Sheet Title:  
**DOOR, FRAME, & WINDOW TYPES**

Project Number: 22712.A

Sheet Number: **A-901**

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FINISH SELECTIONS			
<b>PAINT</b>	<b>WOOD DOOR</b>	<b>CEILING</b>	<b>WALL BASE</b>
PT-1 MFR PPG COLOR BLUE TANG PPG 1160-7 FINISH	ST-1 MFR MASONITE ARCHITECTURAL CENDURA SERIES SPECIES WHITE OAK COLOR CLEAR	ACT-1 LAY-IN CEILING TILE AND GRID MFR ARMSTRONG SIZE 24 x 24 x 5/8 TILE #492 YUMA WHITE, TEGULAR EDGE GRID PRELUDE 1 1/2 COLOR WHITE	RB-1 RUBBER WALL BASE MFR JOHNSONITE COLOR 48 GREY
PT-2 MFR SHERWIN WILLIAMS COLOR WHIRLPOOL SW 9135 FINISH	<b>WALL PROTECTION: SEE DETAILS THIS SHEET</b>	ACT-2 LAY-IN CEILING TILE AND GRID MFR ARMSTRONG SIZE 24 x 24 x 5/8 TILE #973 LUMAWASH, SQUARE EDGE GRID PRELUDE 1 1/2 COLOR WHITE	<b>CARPET</b> CPT-1 MFR PATCRAFT PRODUCT CAMBER STYLE 10485 COLOR FOCUS 00450
PT-3 MFR PPG COLOR IN THE CLOUD PPG 0999-1 FINISH	WP-1 MFR ACROVYN CHAMELEON COLLECTION URBANWOOD #654 COLOR SUEDE TEXTURE	ACT-3 LAY-IN CEILING TILE AND GRID MFR ARMSTRONG SIZE 24 x 24 x 5/8 TILE #492 YUMA WHITE, SQUARE EDGE GRID PRELUDE 1 1/2 COLOR WHITE	<b>VINYL COMPOSITE TILE</b> VCT-1 MFR TARKETT VCT COLOR 1314 WHITE / GRAY
PT-4 MFR PPG COLOR RABBIT'S EAR PPG 0999-2 FINISH	WP-2 MFR ACROVYN PEARL #934 COLOR SUEDE TEXTURE	<b>GROUT</b> GRT-1 MFR SPEC-MIX COLOR SM 200 - WHITE	<b>SOLID SURFACE</b> SS-1 MFR CORIAN COLOR CARBON CONCRETE
PT-5 MFR SHERWIN WILLIAMS COLOR WOOL SKEIN SW 6148 FINISH	WP-3 MFR ACROVYN PUMICE #858 COLOR SUEDE TEXTURE	GRT-2 MFR SPEC-MIX COLOR SM 100 - GRAY	<b>LAMINATE</b> PL-1 MFR FORMICA COLOR DOGBONE WHITE 5281-58 FINISH MATTE FINISH
PT-6 MFR M / E / STORAGE COLOR TBD FINISH TBD		<b>FLOOR / WALL TILE</b> CT-1 MFR SHAW HARD SURFACE STYLE SOURCE CT003 COLOR ASH 03515 FINISH 12" X 24"	PL-2 MFR WILSONART COLOR HARVEST MAPLE 7053-58 FINISH FINE VELVET FINISH
PT-7 MFR EXPOSED STRUCTURE COLOR TBD FINISH TBD		CT-2 MFR AMERICAN OLEAN STYLE COLOR COMPLEMENTS FINISH TBD COLOR GLOSSY / MATTE MIX SIZE 6" X 6"	
<b>EPOXY</b> EPXY-1 MFR SHERWIN WILLIAMS COLOR MATCH PPG 0999-2 RABBIT'S EAR			
EPXY-2 MFR SHERWIN WILLIAMS COLOR MATCH PPG 0999-3 BOULDER CREEK			



### WALL PROTECTION DETAILS

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

ROOM NO	ROOM NAME	FLOOR	BASE	WALLS				CEILING	NOTES
				N	S	E	W		
<b>FIRST FLOOR</b>									
100	LOBBY	CT-1/CT-2	CT-1/CT-2	PT-4	PT-4	PT-4	PT-4	STRC/PT-7	
101	VESTIBULE	CT-1	CT-1	-	-	-	-	PT-	
102	RECEPTION	CPT-1	RB-1	PT-4	PT-4	PT-4	PT-4	ACT-1	
103	MEN'S TOILET ROOM	CT-1/CT-2	CT-1/CT-2	PT-4	PT-4/CT-1/CT-2	PT-4/CT-1	PT-4/CT-1	ACT-1	
104	WOMEN'S TOILET ROOM	CT-1/CT-2	CT-1/CT-2	PT-4/CT-1/CT-2	PT-4	PT-4/CT-1	PT-4/CT-1	ACT-1	
105	MULTIPURPOSE ROOM	EPXY-1	-	PT-3/WP-1	PT-3/WP-1	PT-3/WP-1	PT-3/WP-1	STRC/PT-7	
106	MULTIPURPOSE STORAGE ROOM	EPXY-1	RB-1	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	ACT-1	
107	DOG VISIT ROOM	EPXY-1	RB-1	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	ACT-1	
108	DOG VISIT ROOM	EPXY-1	RB-1	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	ACT-1	
109	DOG VISIT ROOM	EPXY-1	RB-1	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	ACT-1	
110	MECHANICAL / ELECTRICAL ROOM	EPXY-1	RB-1	PT-6	PT-6	PT-6	PT-6	STRC/PT-1	
111	HALLWAY	VCT-1	RB-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	ACT-1	
112	EMPLOYEE BREAK ROOM	CT-1	RB-1	PT-1	PT-4	PT-4	PT-4	ACT-1	
113	OFFICE	CPT-1	RB-1	PT-4	PT-1	PT-4	PT-4	ACT-1	
114	OFFICE	CPT-1	RB-1	PT-4	PT-1	PT-4	PT-4	ACT-1	
115	OFFICE	CPT-1	RB-1	PT-4	PT-1	PT-4	PT-4	ACT-1	
116	OFFICE	CPT-1	RB-1	PT-4	PT-1	PT-4	PT-4	ACT-1	
117	MECHANICAL / ELECTRICAL ROOM	EPXY-1	RB-1	PT-6	PT-6	PT-6	PT-6	STRC/PT-7	
118	HALLWAY	CT-1	RB-1	PT-1	PT-4	PT-4	PT-4	ACT-1	
119	HALLWAY	VCT-1	-	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	ACT-1	
120	HALLWAY	VCT-1	RB-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	ACT-1	
121	EMPLOYEE WOMEN'S TOILET ROOM	CT-1/CT-2	CT-1/CT-2	PT-4/CT-1	PT-4/CT-1/CT-2	PT-4/CT-1	PT-4/CT-1	ACT-1	
122	EMPLOYEE MEN'S TOILET ROOM	CT-1/CT-2	CT-1/CT-2	PT-4/CT-1/CT-2	PT-4/CT-1	PT-4/CT-1	PT-4/CT-1	ACT-1	
123	SHOWER	CT-1	CT-1	PT-	PT-	PT-	PT-	PT-	
124	HALLWAY	CT-1/CT-2	CT-1/CT-2	PT-4	PT-4	PT-4	PT-4	ACT-1	
125	CAT PLAY / VISIT ROOM	EPXY-1	RB-1	PT-4/WP-2	PT-4/WP-2	PT-4/WP-2	PT-4/WP-2	ACT-1	
126	CAT PLAY ROOM	EPXY-1	RB-1	PT-4/WP-2	PT-4/WP-2	PT-4/WP-2	PT-4/WP-2	ACT-1	
127	CAT PLAY ROOM	EPXY-1	RB-1	PT-4/WP-2	PT-4/WP-2	PT-4/WP-2	PT-4/WP-2	ACT-1	
128	FELINE KENNEL	EPXY-1/EPXY-2	RB-1	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	STRC/PT-7	
129	CAT WASH	EPXY-1/EPXY-2	RB-1	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	PT-3/WP-2	ACT-2	
130	MISC. STORAGE	EPXY-1	RB-1	PT-6	PT-6	PT-6	PT-6	ACT-3	
131	MECHANICAL ROOM	EPXY-1	RB-1	PT-6	PT-6	PT-6	PT-6	ACT-3	
132	INTAKE CHECK IN / GUEST VET.	CT-1	-	PT-4/WP-1	PT-4/WP-1	PT-1/WP-1	PT-4/WP-1	ACT-1	
133	CAT ISO.	EPXY-1	-	WP-2	WP-2	WP-2	WP-2	ACT-2	
134	DOG ISO.	EPXY-1	-	WP-2	WP-2	WP-2	WP-2	ACT-2	
135	ENTRY FOYER	VCT-1	RB-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	ACT-1	
136	CAT HOLD / CAT RECOVERY	EPXY-1	-	WP-2	WP-2	WP-2	WP-2	ACT-2	
137	HALLWAY	VCT-1	RB-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	ACT-1	
138	DELIVERY / PICK UP / STORAGE	EPXY-1	-	PT-	PT-	PT-	PT-	STRC/PT-7	
139	EUTH. ROOM	VCT-1	RB-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	ACT-2	
140	DOG HOLD	EPXY-1	-	WP-2	WP-2	WP-2	WP-2	ACT-2	
141	DOG RECOVERY	EPXY-1	-	WP-2	WP-2	WP-2	WP-2	ACT-2	
142	VOLUNTEER ROOM	VCT-1	RB-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	PT-4/WP-1	ACT-1	
143	FELINE LAUNDRY	EPXY-1	-	WP-2	WP-2	WP-2	WP-2	ACT-2	
144	EXISTING MECHANICAL ROOM	EXST	EXST	EXST	EXST	EXST	EXST	EXST	
145	EXISTING GUN RANGE TOILET	EXST	EXST	EXST	EXST	EXST	EXST	EXST	
146	EXISTING STAIR	EXST	EXST	EXST	EXST	EXST	EXST	EXST	
147	EXISTING CLOSET	EXST	EXST	EXST	EXST	EXST	EXST	EXST	
148	PUPPY KENNEL	EPXY-2	-	PT-4	PT-4	PT-4	PT-4	ACT-2	
149	HALLWAY	EPXY-2	-	PT-4	PT-4	PT-4	PT-4	ACT-3	
150	CANINE FOOD PREP	EPXY-2	-	PT-4	PT-4	PT-4	PT-4	ACT-3	
151	CANINE LAUNDRY	EPXY-2	-	PT-4	PT-4	PT-4	PT-4	ACT-3	
152	QUARANTINE	EPXY-2	-	PT-4	PT-4	PT-4	PT-4	ACT-2	
153	MISC. STORAGE	EPXY-2	-	PT-4	PT-4	PT-4	PT-4	STRC/PT-7	
154	CANINE KENNEL 2	EPXY-1/EPXY-2	-	PT-4	PT-4	PT-4	PT-4	STRC/PT-7	
155	CANINE KENNEL 1	EPXY-1/EPXY-2	-	PT-4	PT-4	PT-4	PT-4	STRC/PT-7	
156	DOG WASH	EPXY-2	-	PT-4	PT-4	PT-4	PT-4	ACT-2	
157	GUN RANGE ENTRY VESTIBULE	CT-1	CT-1	PT-	PT-	PT-	PT-	STRC/PT-7	
158	GUN RANGE ENTRY CORRIDOR	CT-1	CT-1	PT-	PT-	PT-	PT-	STRC/PT-7	
<b>SECOND FLOOR</b>									
200	EXISTING MULTIPURPOSE ROOM	EXST	EXST	EXST	EXST	EXST	EXST	EXST	
201	EXISTING STORAGE ROOM	EXST	EXST	EXST	EXST	EXST	EXST	EXST	
202	EXISTING WOMEN'S TOILET ROOM	EXST	EXST	EXST	EXST	EXST	EXST	EXST	
203	EXISTING MEN'S TOILET ROOM	EXST	EXST	EXST	EXST	EXST	EXST	EXST	

<b>SCHEDULE LEGEND</b>	<b>MILLWORK LEGEND</b>
EPXY EPOXY COATING	PL PLASTIC LAMINATE
CPT CARPET	SS SOLID SURFACE
VCT VINYL COMPOSITE TILE	
PC POLISHED CONCRETE	
FT FLOOR TILE	
WT WALL TILE	
PT PAINT	
VB VINYL BASE	
WB WOOD BASE	
ACT ACOUSTICAL CEILING TILE	
STRC EXPOSED STRUCTURE	
NF NO FINISH	
SC SEALED CONCRETE	



## Sidock Group

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Key Plan:



Client:

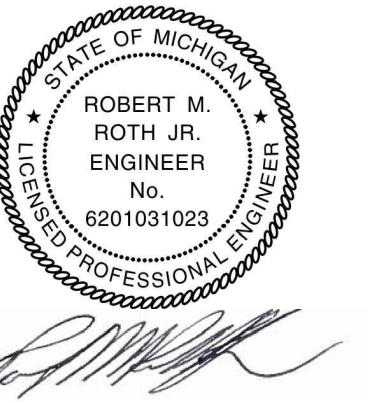
City of Taylor  
23555 Goddard Rd.  
Taylor, MI 48180

Project:

City of Taylor  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180

Seal:



Date	Issued For
09-13-2023	25% Complete Review
10-18-2023	50% Complete Review
12-21-2023	Owner Review
01-17-2024	Permit Review

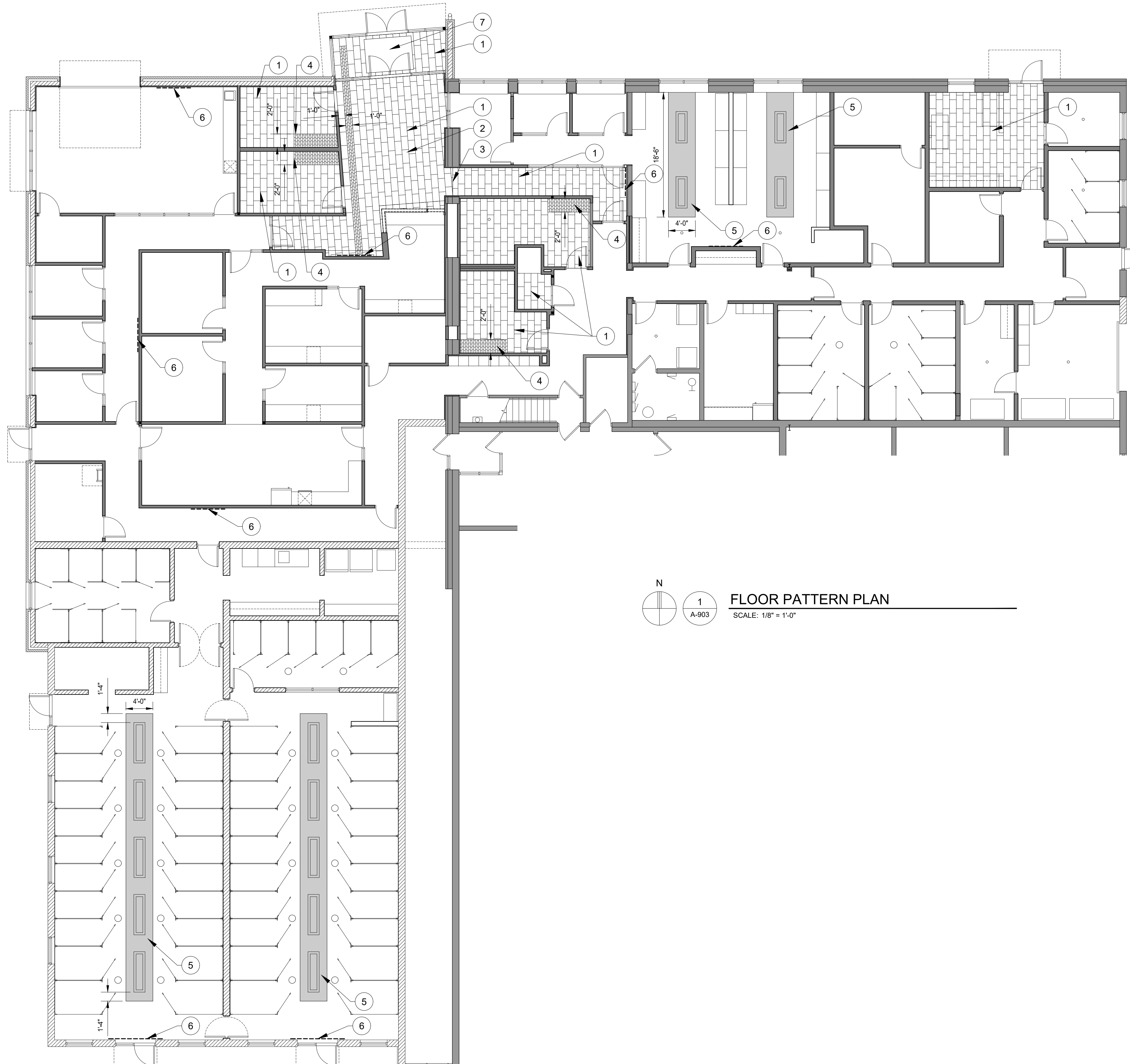
Drawn: WDJ/JNC  
Checked: WD  
Approved: MR

### Sheet Title: ROOM FINISH SCHEDULE

Project Number: 22712.A

Sheet Number: A-902

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**1**  
 A-903
 

**FLOOR PATTERN PLAN**  
 SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**

- A. THIS PLAN IS INTENDED TO ILLUSTRATE SPECIFIC FLOOR TILE PATTERNS, AND WALL MURAL LOCATIONS ONLY. REFER TO ROOM SCHEDULE FOR ALL FLOORING MATERIALS.
- B. PAINTED WALL MURALS WILL BE LARGE SILHOUETTES OF ANIMALS. PAINTING CONTRACTOR TO ACCOUNT FOR THESE WITHIN THE PAINTING SCOPE OF WORK. PAINTER TO CONSULT WITH ARCHITECT ON FINAL DESIGNS AND LOCATIONS PRIOR TO COMMENCEMENT OF WORK.

**FLOOR PATTERN NOTES:**

- ① FLOOR TILE PATTERN
- ② FLOOR TILE WITHIN THIS ROOM TO BE ALIGNED WITH ANGLED TOILET ROOM WALL AS SHOWN.
- ③ FLOOR TILE TO BE RE-ALIGNED PERPENDICULAR TO HALLWAY WALLS AT THIS POINT.
- ④ SEE INTERIOR WALL ELEVATION FOR WIDTH DIMENSION OF THE SMALLER TILE.
- ⑤ AREA OF SECOND EPOXY FLOOR COATING COLOR WITHIN THIS ROOM.
- ⑥ LOCATION OF PAINTED WALL MURAL. SEE GENERAL NOTES 2 ON THIS SHEET.
- ⑦ WALK-OFF FLOOR MAT. MAT TO BE FLUSH WITH SURROUNDING FLOOR TILE AND SEPARATED WITH SCHLUTER EDGING.



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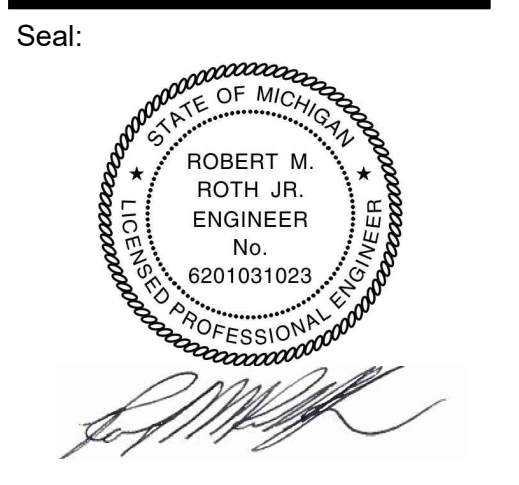
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Drawn: WD/JC/NC  
 Checked: WD  
 Approved: MR

Sheet Title:  
**FLOOR PATTERN PLAN**

Project Number: **22712.A**

Sheet Number: **A-903**

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#### GENERAL STRUCTURAL NOTES

- ALL CONSTRUCTION SHALL COMPLY FULLY WITH THE APPLICABLE PROVISIONS OF MOSHA, THE MICHIGAN BUILDING CODE, LATEST EDITION, AND THE LOCAL GOVERNING CODE, LATEST EDITIONS, AND ALL REQUIREMENTS SPECIFIED IN THE CODES SHALL BE ADHERED TO AS IF THEY WERE CALLED FOR OR SHOWN ON THE DRAWINGS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT ANY REQUIREMENTS SET FORTH ON THE DRAWINGS MAY BE MODIFIED BECAUSE THEY ARE MORE STRINGENT THAN THE CODE REQUIREMENTS OR BECAUSE THEY ARE NOT SPECIFICALLY REQUIRED BY CODE.

#### PRE-ENGINEERED BUILDING DESIGN LOADS:

LIVE LOADS:	
ROOF LIVE LOAD	20 PSF
ROOF SNOW LOADS (WITH ADDITIONAL DRIFT & SLIDING SNOW)	B
GROUND SNOW P <sub>s</sub>	20 PSF
EXPOSURE FACTOR C <sub>e</sub>	1.0
THERMAL FACTOR C <sub>t</sub>	0.9

WIND DESIGN DATA	
BASIC WIND SPEED (3-SECOND GUST)	115 MPH
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	+/- 0.18

EARTHQUAKE DESIGN DATA	
SEISMIC IMPORTANCE FACTOR	1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
SHORT PERIOD (S <sub>0</sub> )	0.01g
1-SECOND PERIOD (S <sub>1</sub> )	0.048g
SITE CLASS	D

- PRIOR TO SUBMITTING PROPOSAL, VERIFY ALL CONDITIONS GOVERNING OR AFFECTING THE STRUCTURAL WORK, OBTAIN AND VERIFY ALL DIMENSIONS TO ENSURE THE PROPER FIT AND LOCATION OF THE STRUCTURAL WORK, TAKE ADDITIONAL DIMENSIONS AS REQUIRED. REPORT TO THE ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK, FAMILIARIZE YOURSELF WITH THE ACTUAL CONDITIONS OF THE STRUCTURAL WORK, ACCESS TO THE SITE, AVAILABLE STORAGE SPACE, FACILITIES AND OBSTRUCTIONS THAT MAY BE ENCOUNTERED DURING THE PROGRESS OF WORK.
- CONTRACTOR TO FURNISH ALL NECESSARY LABOR, MATERIAL, EQUIPMENT AND FACILITIES TO FURNISH, FABRICATE AND PERFORM THE REQUIRED STRUCTURAL WORK.
- ALL WORK SHOWN ON THESE DRAWINGS MAY BE CHECKED BY AN INDEPENDENT TESTING AGENCY RETAINED BY OWNER TO ENSURE COMPLIANCE WITH THE REQUIREMENTS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ACCESS AS REQUIRED FOR TESTING PURPOSES.
- CONTRACTOR SHALL MAKE ALL NECESSARY FIELD VISITS FOR INSPECTION, MEASUREMENTS AND VERIFICATION OF EXISTING CONDITION OF BUILDING.
- THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, SPECIFICATION, AND/OR THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION AS DETERMINED BY THE ENGINEER SHALL GOVERN.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF TEMPORARY BRACING, GUYS AND/OR TIE-DOWNS AS NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
- WORK THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, SITE AND ELECTRICAL DRAWINGS.
- USE OF ENGINEERING DRAWINGS AS ERECTION DRAWINGS BY THE CONTRACTOR IS STRICTLY PROHIBITED.

#### SITE PREPARATION

- AT THE START OF EARTHWORK OPERATIONS, ALL SURFACE VEGETATION SHALL BE CLEARED AND THE EXISTING TOPSOIL AND ANY OTHER ORGANIC SOILS SHALL BE REMOVED IN THEIR ENTIRETY FROM BELOW THE PROPOSED BUILDING AND PAVEMENT AREAS, EXISTING RANDOM CONCRETE AND OTHER DEBRIS SHALL BE REMOVED FROM WITHIN THE BUILDING AREA.
- THE SUB-GRADE SHOULD BE THOROUGHLY PROOF-ROLLED WITH A HEAVY RUBBER-TIRED VEHICLE SUCH AS A LOADED SCRAPER OR LOADED DUMP TRUCK, ANY AREAS THAT EXHIBIT EXCESSIVE PUMPING AND YIELDING DURING PROOF-ROLLING SHOULD BE STABILIZED BY AERATION, DRYING AND COMPACTION IF WEATHER CONDITIONS ARE FAVORABLE, OR REMOVAL AND REPLACEMENT WITH ENGINEERED FILL.
- ALL EXCAVATIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE, WHO SHALL BE CONSULTED WHEN POOR SOIL, WATER, OBSTRUCTIONS, PIPING, EXISTING FOOTINGS, EXCAVATIONS, ETC., ARE ENCOUNTERED.

#### FOOTINGS & FOUNDATIONS

- CONTRACTOR SHALL VERIFY ALL CONDITIONS, INCLUDING UNDERGROUND UTILITIES, AND FIELD MEASUREMENTS AT JOB SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- PROVIDE ALL NECESSARY SHEETING, SHORING, BRACING, ETC. AS REQUIRED FOR EXCAVATIONS TO PROTECT SIDES OF EXCAVATIONS AND ADJACENT STRUCTURES.
- CONTRACTOR SHALL COMPLY FULLY WITH THE REQUIREMENTS OF MOSHA, OTHER REGULATORY AGENCIES AND THE OWNER'S SITE-SPECIFIC SAFETY PLAN AND REGULATIONS FOR SAFETY PROVISIONS.
- BOTTOM OF FOOTING ELEVATIONS NOTED ON PLAN ARE MINIMUM ELEVATIONS. IN ALL CASES, FOOTINGS ARE TO BEAR ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL HAVING A MINIMUM GROSS ALLOWABLE BEARING CAPACITY OF 3000 PSF.
- FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND WALLS UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- NO FOOTINGS OR SLABS SHALL BE PLACED ON OR AGAINST SUB-GRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST, HOWEVER SLIGHT, ENTER A FOOTING EXCAVATION AFTER SUB-GRADE APPROVAL, THE SUB-GRADE SHALL BE RE-INSPECTED BY THE TESTING LABORATORY AFTER REMOVAL OF WATER OR FROST.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUB-GRADE BEFORE AND AFTER PLACING OF CONCRETE UNTIL THE CONCRETE HAS REACHED ITS DESIGN STRENGTH.
- ALL FOUNDATION BEARING SOILS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER. THE TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO, IDENTIFICATION OF SOILS AT AND BELOW THE FOUNDATION BEARING LEVEL, AND THE ALLOWABLE BEARING CAPACITY.
- CONTRACTOR SHALL FURNISH ALL REQUIRED DEWATERING EQUIPMENT TO MAINTAIN A DRY EXCAVATION UNTIL BACKFILL IS COMPLETE.

- THE FOUNDATION DESIGN IS BASED ON THE SOILS INVESTIGATION REPORT PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. DATED APRIL 26, 1993

#### BACKFILLING

- MATERIAL FOR BACKFILL OR ENGINEERED FILL REQUIRED TO ACHIEVE DESIGN GRADES SHOULD CONSIST OF NON-ORGANIC SOILS. THE ON-SITE SOILS THAT ARE FREE OF ORGANIC MATTER AND DEBRIS MAY BE USED FOR ENGINEERED FILL WITH ENGINEER'S APPROVAL.
- BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHODS (ASTM D1557), IN LIFTS NOT EXCEEDING 12-INCHES IN LOOSE THICKNESS.
- FROZEN MATERIAL SHALL NOT BE USED AS FILL, NOR SHALL FILL BE PLACED ON FROZEN SUB-GRADE.
- DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL BASEMENT FLOOR LEVEL AND FIRST FLOOR LEVEL SLABS ARE IN PLACE AND HAVE REACHED 75% OF THEIR SPECIFIED DESIGN STRENGTH. SHORE AND GRADE WALLS AS REQUIRED IF BACKFILLING OPERATIONS ARE TO BE CARRIED OUT PRIOR TO PLACEMENT OF FLOOR SLABS.
- PLACE BACKFILL AGAINST BOTH SIDES OF GRADE BEAMS AND FOUNDATIONS AT EQUAL ELEVATIONS OF FILL, EXCEPT AS SHOWN ON THE DRAWINGS.
- CRUSHED SLAG USED AS BACKFILL SHALL BE AGED, ENVIRONMENTALLY-SAFE PROCESSED BLAST FURNACE SLAG.

#### CAST-IN-PLACE CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301- LATEST REVISION, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING," EXCEPT AS MODIFIED BY STRUCTURAL REQUIREMENTS NOTED ON THE DRAWINGS.
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH ( $f'c$ ) OF 4000 psi.
- ALL EXTERIOR CONCRETE INCLUDING WALLS SHALL BE AIR-ENTRAINED 5% +/- 1%.
- ALL EXTERIOR CONCRETE EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF (W/C) 0.45.
- UNLESS NOTED OTHERWISE, MINIMUM CONCRETE COVER SHALL BE:

CONCRETE CAST AGAINST EARTH	3-INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER	2-INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	3/4-INCHES
- ALL REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60 ( $f_y = 60,000$  psi)
- WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS AND SHALL CONFORM TO ASTM A185 ( $F_y = 75$  KSI) AND HAVE A MINIMUM SIDE AND END LAP OF 8 INCHES.
- THE CONTRACTOR SHALL SUBMIT THE CONCRETE MIX DESIGN(S) TO THE ENGINEER FOR REVIEW. PROPORTION MIX DESIGNS AS DEFINED IN ACI 301 SECTION 4. THE SUBMITTAL SHALL INCLUDE AS A MINIMUM CEMENT TYPE AND SOURCE, CEMENT STRENGTH, AGGREGATE GRADATIONS, WATER TESTS, AD-MIXTURE CATALOG INFORMATION AND CYLINDER STRENGTH TEST RESULTS FOR THE CONCRETE. THE MIX DESIGN HISTORICAL RESULTS SHALL ALSO BE SUBMITTED IF APPROPRIATE.
- ALL REINFORCEMENT TO BE DETAILED, FABRICATED AND ERECTED ACCORDING TO THE ACI STANDARDS: "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", ACI 315 - LATEST REVISION AND "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES", ACI 315R - LATEST EDITION.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT REINFORCEMENT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL CLEARLY SHOW ALL REINFORCEMENT LENGTHS AND BENDS, LOCATIONS OF ALL BARS, VIBRATION AND CONSTRUCTION JOINTS. THE DRAWINGS SHALL ALSO INDICATE ALL OPENINGS, SLEEVES, CURBS AND CONCRETE DIMENSIONS IN ACCORDANCE WITH ACI 315.
- LAPS, ANCHORAGES AND SPLICES SHALL COMPLY WITH THE REQUIREMENTS OF ACI 318-LATEST EDITION, CHAPTER 25. LOCATIONS AND SPLICES SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION JOINT LOCATIONS, DETAILS AND AS SHOWN ON THE REINFORCING STEEL SHOP DRAWINGS.
- PROVIDE DOWELS OF SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT AT ALL COLUMNS AND WALLS.
- UNLESS OTHERWISE SHOWN OR NOTED, AS A MINIMUM, PROVIDE TWO #5 BARS (ONE EACH FACE) AROUND UNFRAMED OPENINGS IN SLABS AND WALLS, PLACE BARS PARALLEL TO SIDES OF OPENINGS AND EXTEND THEM 24 INCHES BEYOND CORNERS.
- HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS WITH LAPS COMPLYING WITH THE REQUIREMENTS OF ACI 318-LATEST EDITION, CHAPTER 25. UNLESS DETAILED OTHERWISE, CORNER BARS SHALL BE PROVIDED AT ALL CHANGE IN WALL DIRECTIONS AND SHALL BE OF THE SAME SIZE AND SPACING AS THE HORIZONTAL STEEL. EACH CORNER BAR LEG TO PROVIDE A LAP COMPLYING WITH THE REQUIREMENTS OF ACI 318-LATEST EDITION CHAPTER 25. SPLICE UNLESS DETAILED OTHERWISE. EXTEND ALL HORIZONTAL WALLS REINFORCING THROUGH PIERS.
- ALL CONSTRUCTION JOINTS SHALL BE FURNISHED WITH KEYWAY CENTERED ON MEMBERS, WHERE THE SIZE OF KEY IS NOT SHOWN ON THE DRAWINGS, THE KEY DEPTH SHALL BE 10% OF THE CROSS SECTION DIMENSION OF THE MEMBER - MINIMUM 3/4".
- ANCHOR BOLTS (FURNISHED BY STRUCTURAL STEEL CONTRACTOR) SHALL BE SET USING A TEMPLATE TO WITHIN 1/8" TOLERANCE IN ANY PLAN DIRECTION IN PIERS, FOOTINGS AND FOUNDATION WALLS, WITH THE MINIMUM PROJECTION AND EMBEDMENT LENGTHS AS INDICATED ON THE DRAWINGS.
- PROVIDE 3/4" CHAMFER STRIP AT ALL EXPOSED CORNERS OF CONCRETE WALLS AND PIERS.
- LOCATE ALL SLEEVES, OPENINGS, EMBEDDED ITEMS, ETC., AS INDICATED ON THE DRAWINGS. THE CONCRETE CONTRACTOR SHALL CHECK WITH ALL OTHER TRADES TO MAKE SURE THE SLEEVES, OPENINGS AND EMBEDDED ITEMS THAT ARE TO BE PROVIDED AND SET BY THEM ARE IN PLACE PRIOR TO PLACING OF CONCRETE IN THE AREA INVOLVED.
- ALL INTERIOR SLABS ON GRADE SHALL BE PLACED ON A VAPOR BARRIER WITH A MINIMUM OF 4-INCHES CLEAN SAND. MINIMUM REINFORCEMENT SHALL BE IN ACCORDANCE WITH ENGINEERING DATA REPORT CRSI NUMBER 37, "REINFORCING STEEL IN SLAB ON GRADE" OR AS DETAILED. ALL EXTERIOR SLABS ON GRADE SHALL BE PLACED ON A MINIMUM OF 4-INCHES CLEAN SAND. MINIMUM REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 24.4 - SHRINKAGE AND TEMPERATURE REINFORCEMENT, OR AS DETAILED.
- CONTRACTORS SHALL OBTAIN APPROVAL FROM THE ENGINEER, PRIOR TO PLACING OPENINGS OR SLEEVES, NOT SHOWN ON THE DRAWINGS, THROUGH ANY STRUCTURAL MEMBERS, ROOF, WALLS OR FOUNDATIONS. REVIEW ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR BASES, OPENINGS, SLEEVES, ANCHORS, INSERTS, CONDUITS, RECESSES AND OTHER DEVICES IN CONCRETE WORK BEFORE CASTING CONCRETE.
- PROVIDE POCKETS OR RECESSES IN CONCRETE WORK FOR STEEL COLUMNS AND BEAMS AS REQUIRED AND / OR AS CALLED FOR IN THE SPECIFICATIONS EVEN IF NOT SHOWN ON THE DRAWINGS. PROVIDE CONCRETE FILL AFTER STEEL ERECTION TO SEAL OPENINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR SLAB RECESSES AND/OR FLOOR FINISH MATERIALS.
- WELDING OF REINFORCING STEEL IS PROHIBITED UNLESS SPECIFICALLY DETAILED. WELDING SHALL CONFORM TO AWS D1.4 SPECIFICATION, LATEST EDITION.
- CONCRETE CONTRACTOR SHALL INCLUDE IN HIS ESTIMATE ADDITIONAL CONCRETE QUANTITY AS REQUIRED TO COMPENSATE FOR DEFLECTIONS OF METAL DECK AND TO PROVIDE A LEVEL CONCRETE SURFACE. REFER TO STRUCTURAL STEEL AND METAL DECK NOTES FOR ADDITIONAL CONSIDERATIONS.
- THE CONCRETE SHALL BE THOROUGHLY COMPACTED BY VIBRATION SUPPLEMENTED BY SPADING, PUDDLING OR AGITATION, TO PREVENT HONEYCOMBING AND TO ENSURE THE ELIMINATION OF VOIDS. VIBRATION MUST BE DIRECT ACTION IN THE CONCRETE AND NOT AGAINST FORMS OR REINFORCEMENT. HONEYCOMBING, VOIDS AND LARGE AIR POCKETS WILL NOT BE ACCEPTABLE.
- LOCATIONS OF CONTRACTION JOINTS ARE SHOWN ON THE PLAN DRAWING. THE JOINTS SHOWN MAY SERVE AS CONTRACTION JOINTS IF CONVENIENT FOR THE CONSTRUCTION SEQUENCE. THE LOCATION OF ANY ADDITIONAL CONTRACTION JOINTS PROPOSED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. ALL CONCRETE SLABS AND WALLS WITH CONSTRUCTION JOINTS SHALL BE PLACED PER ACI 302.1R.
- THE USE OF WATER-SOLUBLE CHLORIDE ION SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER, AS AN ALTERNATIVE TO THE ABOVE. THE CONTRACTOR MAY SUBMIT A CONCRETE MIX DESIGN FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE ALTERNATE MIX DESIGN SHALL BE REVIEWED FOR CONFORMANCE TO '02 UBC.

#### STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATION:
  - \* WIDE FLANGE AND WT SHAPES - A992
  - \* HSS RECT. - A500 GRADE C ( $f_y = 46$  KSI)
  - \* HSS ROUND - A500 GRADE C ( $f_y = 42$  KSI)
  - \* PIPE - A53 GRADE B ( $f_y = 35$  KSI)
  - \* HP SHAPES - A572 GR. 50
  - \* ALL OTHER SHAPES AND PLATES - A36
- THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL.
- BEAM CONNECTIONS SHALL BE STANDARD TWO ANGLE WEB CONNECTIONS CAPABLE OF SUPPORTING 50% OF THE ALLOWABLE UNIFORM LOAD FROM THE ALLOWABLE LOADS ON BEAM TABLES IN THE AISC CODE, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
- ALL CONNECTIONS NOT SPECIFICALLY DETAILED, SHALL BE DESIGNED AND DETAILED BY THE FABRICATOR. DETAILS SHALL BE PERFORMED USING RATIONAL ENGINEERING DESIGN AND STANDARD PRACTICE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE GENERAL DETAILS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND DO NOT INDICATE THE REQUIRED NUMBER OF BOLTS OR WELD SIZES, UNLESS SPECIFICALLY NOTED.
- ALL CONNECTIONS SHALL BE SHOP WELDED IN ACCORDANCE WITH LATEST AWS SPECIFICATION USING FLOW ELECTRODES AND FIELD BOLTED WITH ASTM A325 OR A490 BOLTS. ALL A325 AND A490 BOLTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS."

#### STRUCTURAL STEEL (CONT.)

- EXCEPT AS NOTED ON THE DRAWINGS, STRUCTURAL STEEL BOLTS SHALL BE ASTM A325, 3/4" DIAMETER. ALL VERTICAL BOLTS ARE TO BE INSTALLED "HEAD UP" UNLESS SPECIFICALLY NOTED. IF A BOLT CANNOT BE INSTALLED "HEAD UP", THE THREAD IS TO BE "SPOILED" AFTER THE BOLT HAS BEEN PROPERLY TIGHTENED AND THEN INSPECTED BY THE TESTING AGENCY.
- HIGH STRENGTH BOLT INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF AISC AND THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS." PROVIDE FULLY PRETENSIONED JOINTS AT CONNECTIONS OF BRACING, WHERE BOLTS ARE IN TENSION, ARE SUBJECT TO LOAD REVERSALS OR FATIGUE, AND AT MOMENT CONNECTIONS. PROVIDE SLIP-CRITICAL JOINTS AT CONNECTIONS SUBJECT TO FATIGUE AND LOAD REVERSALS, OVERSIZED HOLES, SLOTTED HOLES AND WHERE SLIP AT THE FAYING SURFACES WOULD BE DETRIMENTAL TO THE PERFORMANCE OF THE STRUCTURE. ALL OTHER CONNECTIONS MAY HAVE SNUG-TIGHTENED CONNECTIONS UNLESS OTHERWISE NOTED.
- ALL SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION PER THE REQUIREMENTS OF THE AISC 360 SECTION J1.2.
- ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 GR. 36.
- CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR MISC. SHAPES AND PLATES WHICH SHALL BE SHOP-WELDED TO THE STRUCTURAL FRAMING SECTIONS TO MINIMIZE FIELD WELDING.
- ALL FLOOR AND ROOF OPENINGS, UNLESS OTHERWISE NOTED, ARE TO BE FRAMED WITH L5X3X1/4 (LLV). VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH THE TRADE INVOLVED.
- PROVIDE L4X4X1/4 SEATS AT COLUMN WEBS, WHERE REQUIRED FOR SUPPORT OF ROOF AND FLOOR DECKS.
- ALL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.
- ALL STIFFENER PLATES AND BEARING STIFFENERS ARE TO BE PROVIDED IN PAIRS.
- SHEAR CONNECTORS SHALL BE MANUFACTURED BY NELSON STUW WELDING, DIV. OR ENGINEER APPROVED SUBSTITUTE, AND WELDED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ALL STEEL TO RECEIVE ONE SHOP COAT OF PAINT. OMIT PAINT AT HOLES FOR SLIP CRITICAL-TYPE CONNECTIONS, AT STRUCTURAL STEEL TO BE FIREPROOFED, ENCASED OR IN CONTACT WITH CONCRETE, AND ON TOP FLANGE OF BEAMS RECEIVING SHEAR CONNECTORS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS, ESPECIALLY WITH RESPECT TO STRUCTURAL STEEL FRAMING INTO CONCRETE WALLS, BEAMS OR COLUMNS.
- PROVIDE TEMPORARY BRACING AS REQUIRED TO ENSURE STABILITY OF THE STRUCTURE UNDER FULL DESIGN LOADS UNTIL THE PERMANENT BRACING IS IN PLACE. CONTRACTOR SHALL PROVIDE NECESSARY SHORING WHERE REQUIRED DURING CONSTRUCTION.
- SHOP AND FIELD TESTING OF WELDS AND OR BOLTS SHALL BE AS FOLLOWS:
  - A. ALL WELDS SHALL BE VISUALLY INSPECTED, 5% AT RANDOM SHALL BE MEASURED.
  - B. FILLET WELDS FOR BEAM AND ORDER SHEAR CONNECTION PLATES (10% AT RANDOM) SHALL BE CHECKED BY MAGNETIC PARTICLE IN ACCORDANCE WITH ASTM E709 FOR FINAL PASS ONLY.
  - C. ULTRASONICALLY TEST 100% OF ALL FULL-PENETRATION WELDS IN ACCORDANCE WITH AWS D1.1 - SECTION, PART "F", "ULTRASONIC TESTING (UT) OF GROOVE WELDS".
  - D. CHECK BY CALIBRATED TORQUE WRENCH, 25% OF BOLTS IN EACH FULLY PRETENSIONED CONNECTION JOINT OR SLIP-CRITICAL CONNECTION JOINT, BUT NOT LESS THAN TWO (2) BOLTS PER CONNECTION.
  - E. ULTRASONICALLY TEST 100% OF ALL PARTIAL-PENETRATION COLUMN SPLICE WELDS IN ACCORDANCE WITH AWS D1.1 - SECTION, PART "F", "ULTRASONIC TESTING (UT) OF GROOVE WELDS".
  - F. CHECK 100% OF CONTINUITY PLATE FILLET WELDS BY MAGNETIC PARTICLE ON LAST LAYERS IN ACCORDANCE WITH ASTM E709.
  - G. THE OWNER'S TESTING AGENCY SHALL PERFORM ALL SHOP AND FIELD INSPECTION AND TESTING AS OUTLINED ABOVE.
  - H. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE TESTING REQUIREMENTS TO BE COMPLETED.
- STRUCTURAL STEEL SHALL NOT BE ALTERED IN THE FIELD FROM THAT SHOWN ON THE DESIGN DRAWINGS. MISMATCHED HOLES SHALL BE REAMED TO LARGER DIAMETER AND PROPERLY SIZED BOLTS AND WASHERS USED FOR FINAL HOLE SIZE. CUTTING, BURNING OR WELDING NOT SHOWN ON DESIGN DRAWINGS SHALL NOT BE PERFORMED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- ALL STRUCTURAL STEEL SHALL BE DETAILED, SHOP PRIME PAINTED OR HOT-DIPPED GALVANIZED, PIECE MARKED, FURNISHED, FABRICATED AND ERECTED ACCORDING TO THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", LATEST EDITION AND TO THE AISC "CODE OF STANDARD PRACTICE". HOT DIP GALVANIZED FINISH FOR ALL STEEL MEMBERS EXPOSED TO THE WEATHER.
- NON-SHRINK GROUT SHALL CONFORM TO "CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT", CRD-C-821-LATEST EDITION. GROUT SHALL BE PREMIXED, NON-SHRINK, NON-CATALYZED NATURAL AGGREGATE GROUT FOR: (1) COLUMN LEVELING PLATES, WHICH ARE NOT BOLTED DOWN BEFORE COLUMN ERECTION, (2) ITEMS SET INTO CONCRETE BLOCKOUTS, DEPRESSIONS, OR TOPPING, AND (3) OTHER STRUCTURAL LOAD BEARING APPLICATIONS. THE SEVEN-DAY COMPRESSIVE FOR THE SPECIFIED CONSISTENCY SHALL BE AT LEAST, 7,000 PSI PLASTIC, 6,000 PSI FLOWABLE, AND 5,000 PSI FLUID CONSISTENCY.

#### FABRICATION AND ERECTION

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC 303-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- ALL HOLES SHALL BE DRILLED OR PUNCHED. NO BURNING OF HOLES WILL BE PERMITTED. SLOTTED HOLES MUST HAVE STRAIGHT AND SMOOTH SIDES.
- HOLES SHALL BE SIZED SUCH THAT THEY ARE 1/8" LARGER IN DIAMETER THAN THE SPECIFIED FASTENER.
- ALL STRUCTURAL MATERIAL INCLUDING BEAMS, ANGLES AND PLATES TO BE FIELD MEASURED AND FIELD FABRICATED.
- IN PLANNING THE METHOD OF ERECTION AND DISTRIBUTION OF MATERIAL BEFORE AND DURING ERECTION, THE CONTRACTOR SHALL MAKE FULL ALLOWANCE FOR ANY OBSTRUCTIONS ENCOUNTERED WHICH MAY RESULT FROM WORK PERFORMED BY OTHER TRADES, AS WELL AS THE OPERATIONS OF THE OWNER.
- IT SHALL BE UNDERSTOOD THAT THERE WILL BE NO EXTRA CHARGE BY THE CONTRACTOR ON ACCOUNT OF ANY OBSTRUCTIONS NOW ON THE SITE OF THE BUILDING.
- FURNISH AND INSTALL ANY AND ALL NECESSARY TEMPORARY BRACING TO SQUARE AND PLUMB UP ALL WORK, AS REQUIRED, BEFORE BOLTING OR WELDING.
- IN CASES WHERE MEMBERS DO NOT FIT OR HOLES DO NOT MATCH, THE HOLES SHALL BE REAMED OUT AND THE NEXT LARGER SIZE BOLT INSERTED. IF THE CONNECTION REQUIRES NEW HOLES, THEN NEW HOLES SHALL BE DRILLED. NO SUCH CORRECTIONS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER'S RESIDENT ENGINEER. BURNING OF HOLES IS STRICTLY PROHIBITED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED BY THE ERECTION OF STRUCTURAL STEEL AS HEREIN SPECIFIED. THE CONTRACTOR SHALL REIMBURSE THE OWNER ACTUAL COST OF REPAIR AND OR REPLACEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE/DEMOLISH AND PROPERLY DISPOSE OF EXISTING STEEL, AS REQUIRED FOR THE INSTALLATION OF NEW STEEL.
- CONTRACTOR IS RESPONSIBLE TO DESIGN, PROVIDE AND INSTALL NECESSARY SHORING DURING DEMOLITION AND REPLACEMENT OF STRUCTURAL STEEL. THE SHORING PLAN SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN.
- TEMPORARILY SUPPORT ALL EXISTING UTILITIES IN WORK AREA AS REQUIRED TO COMPLETE SCOPE-OF-WORK ITEMS.
- PRIOR TO THE COMPLETION OF THE SCOPE OF WORK, INSTALL PERMANENT SUPPORTS TO ALL EXISTING UTILITIES AFFECTED BY WORK AREA AS REQUIRED TO THE SATISFACTION OF THE OWNER.

#### HANDLING OF STEEL

- WHEN THE STRUCTURAL STEEL IS DELIVERED, IT SHALL BE STACKED OFF THE GROUND, CARE SHALL BE TAKEN IN HANDLING AND STACKING THE MEMBERS TO PREVENT BUCKLING, KINKING OR DISTORTION. RAIL AND CARRIER SHIPMENTS SHALL HAVE SUFFICIENT AND SATISFACTORY DUNNAGE TO PREVENT DAMAGE IN TRANSIT.
- MEMBERS WHICH ARE BENT IN FABRICATION OR IN HANDLING SHALL BE STRAIGHTENED OR REPLACED BEFORE ERECTION.
- ALL DIRT, MUD AND DEBRIS SHALL BE CLEANED FROM STEEL BEFORE ERECTION.

#### HIGH STRENGTH BOLTS

- HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM DESIGNATION A325 AND SHALL BE USED IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" LATEST REVISION, BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
- ALL BOLTED CONNECTIONS SHALL USE ONLY STANDARD HOLES; EXCEPT SHORT SLOTS. OVERSIZED HOLES AND LONG SLOTS SHALL BE USED WHERE SPECIFICALLY SHOWN OR CALLED OUT ON THE DESIGN DRAWINGS OR MENTIONED HEREIN. OVERSIZED HOLES, AND SHORT AND LONG SLOTS MUST BE DESIGNED AS SLIP-CRITICAL TYPE CONNECTIONS. HARDENED WASHERS SHALL BE INSTALLED OVER ALL OVERSIZED HOLES AND SHORT SLOTS IN AN OUTER PLY. A PLATE WASHER OR A CONTINUOUS BAR IS REQUIRED FOR ALL LONG SLOTTED HOLES USED IN AN OUTER PLY.
- THE TIGHTENING MECHANISM USED SHALL BE THE TURN-OF-THE-NUT METHOD. CONTACT SURFACE SHALL NOT BE PAINTED. IN EACH JOINT OR GROUP OF BOLTS 10% (BUT NOT LESS THAN TWO (2) BOLTS) SELECTED AT RANDOM AND NOT IN UNIFORM PATTERN SHALL BE CHECKED. THIS SHALL BE DONE IN THE PRESENCE OF THE OWNER'S DESIGNATED REPRESENTATIVE. IF BOLTING IS FOUND TO BE INADEQUATE UNDER TEST, ALL BOLTS IN THE DEFECTIVE GROUP SHALL BE CHECKED AT THE CONTRACTOR'S EXPENSE.

#### WELDING

- WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY AWS D1.1 - LATEST ADOPTION "STRUCTURAL WELDING CODE-STEEL".
- FILLER METAL FOR WELDING SHALL BE IN ACCORDANCE WITH SECTION 3, TABLE 3.1, OF THE AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
- ALL WELDED JOINTS SHALL BE MADE USING PRE-QUALIFIED WELDS OR QUALIFIED PER SECTION 4 OF THE AWS D1.1 "STRUCTURAL WELDING CODE - STEEL". ALL QUALIFIED JOINTS ARE LIMITED TO THOSE MADE BY THE FOLLOWING WELDING PROCEDURES:
  - 1) MANUAL SHIELDED METAL ARC.
  - 2) SUBMERGED ARC.
  - 3) GAS METAL ARC (EXCEPT SHORT CIRCUITING TRANSFER).
  - 4) FLUX-CORED ARC.
- ALL FIELD WELDING SHALL BE PERFORMED USING THE MANUAL SHIELDED METAL ARC PROCESS OR FCAW @ ERECTORS OPTION.
- WELDS, INCLUDING TACK WELDS, SHALL BE MADE ONLY BY WELDERS AND WELDING OPERATORS WHO HAVE BEEN PREVIOUSLY QUALIFIED BY TESTS AS PRESCRIBED BY THE AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" AND HAVE CURRENT PAPERS FOR THE TYPE OF JOINT, POSITION AND PROCESS TO BE WELDED.
- CONTRACTOR TO SUBMIT CURRENT WELDER QUALIFICATION PAPERS TO ENGINEER PRIOR TO COMMENCING WELDING OPERATIONS.
- THE MINIMUM SIZE FILLET WELD SIZE SHALL BE 3/16". THE SIZE AND LENGTH OF ALL FILLETS SHALL BE PROPORTIONED NOT TO LOCALLY OVERSTRESS THE CONNECTED MEMBERS.
- FILLET WELDS ON CONNECTING ANGLES OR OTHER UNSYMMETRICAL SECTIONS SHALL BE DESIGNED ACCORDING TO THE ACTUAL STRESSES CARRIED BY THE INDIVIDUAL LINES OF WELDING. SHOP DRAWINGS SHALL INDICATE WELDS REQUIRED.
- BEFORE WELDING MEMBERS TO EXISTING BEAMS OR COLUMNS, THOROUGHLY CLEAN ALL SURFACES TO REMOVE RUST, PAINT, OILS, DIRT OR OTHER FOREIGN MATTER IN THE AREA OF WELD.
- WHERE WELDING IS USED, THE OWNER MAY DECIDE TO MAKE NON-DESTRUCTIVE TESTS OF THE WELDS USING RADIOGRAPHY, ULTRASONIC, MAGNETIC AND/OR DYE PENETRANT WELD TEST METHODS IN COMBINATION OR SINGULARLY. THE NON-DESTRUCTIVE INVESTIGATION WILL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY QUALIFIED IN THIS TYPE OF WORK. THE COST OF THIS INVESTIGATION WILL BE ASSUMED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ACCESS AS REQUIRED FOR TESTING PERSONNEL.
- WELD ACCEPTABILITY SHALL BE BASED ON AWS D1.1-LATEST EDITION "STRUCTURAL WELDING - CODE STEEL" CLAUSE 6. IN THE EVENT THE WELDING IS NOT ACCEPTABLE, THE CONTRACTOR SHALL REMOVE ALL REJECTED WELDS AND REWELD ALL SUCH AREAS. THE CONTRACTOR WILL ASSUME ALL COSTS IN CONNECTION WITH THE REWELDING AND RE-EXAMINATION OF THE REWELDED CONNECTIONS UNTIL THE WELDING IS ACCEPTED BY OWNER.

#### OPEN WEB JOISTS

- ALL OPEN WEB STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST "STEEL JOIST INSTITUTE" (SJI) SPECIFICATIONS.
- WHERE NOTED, JOISTS SHALL BE DESIGNED FOR ADDITIONAL CONCENTRATED LOADS AND MOMENTS INDICATED IN SCHEDULES. SUBMIT DESIGN CALCULATIONS FOR REVIEW BY ARCHITECT-ENGINEER.
- ALL JOISTS TO RECEIVE ONE COAT OF PAINT OR BE HOT-DIP GALVANIZED PER SPECIFICATIONS.
- JOIST TO STEEL CONNECTIONS SHALL BE A MINIMUM OF TWO 3/16" FILLET WELDS 1 1/2" LONG, EXCEPT AT COLUMNS OR AS REQUIRED TO RESIST LOADS SHOWN ON THE DRAWINGS. AT COLUMNS, JOISTS SHALL BE ATTACHED BY 3/4" DIAMETER BOLTS. JOISTS BEARING ON MASONRY OR CONCRETE SHALL BE FIELD WELDED TO ANCHORED BEARING PLATES, SIZED AS INDICATED.
- EXTEND JOIST BOTTOM CHORDS AT COLUMNS. CONNECT BOTTOM CHORD AFTER DEAD LOAD IS APPLIED, IF INDICATED AS SUCH ON THE DRAWING. SIZE CONNECTION TO SUIT DETAILED LOADS.
- MODIFY STANDARD JOIST FOR ADDITIONAL LOADS GIVEN ON PLAN OR FOR THE SPECIAL LOADING DIAGRAMS ON THE DRAWINGS. MODIFY JOIST SEATS WHERE INDICATED.
- BRIDGING SHALL MEET THE MINIMUM REQUIREMENTS OF SJI UNLESS DETAILED OTHERWISE. HORIZONTAL BRIDGING SHALL BE CONTINUOUS TOP AND BOTTOM, ANCHORED AT EACH END AND WELDED TO EACH JOIST. DIAGONAL BRIDGING SHALL BE BOLTED TO EACH JOIST AND CLAMPED AT THE INTERSECTION WITH THE OPPOSITE BRIDGING.
- ALL STEEL JOISTS SHALL BE CAMBERED FOR DEFLECTION DUE TO DEAD LOADS OR AS SPECIFICALLY NOTED ON PLAN.
- FOR JOISTS AND SPECIAL JOISTS LIVE LOAD DEFLECTION SHALL NOT EXCEED L/360.
- FOR POINT LOADS SUPPORTED BY THE JOIST NOT AT THE PANEL POINTS, ADD SUPPLEMENTAL BRACING OR STRUTS IN ACCORDANCE WITH SJI.

#### METAL DECK

- ALL METAL DECK SHALL BE AS NOTED ON DRAWINGS, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST "STEEL DECK INSTITUTE" (SDI) SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH ALL ACCESSORIES INCLUDING CLOSURES, "Z" CLOSURES, COLUMN CLOSURES, SCREED ANGLES AND GIRDER FILLERS AS REQUIRED.
- ROOF DECK SHALL HAVE A GALVANIZED COATING CONFORMING TO ASTM A653 - COATING DESIGNATION G-60.
- DESIGN OF FLOOR DECK AS A FORM SHALL CONFORM TO THE REQUIREMENTS OF SDI SPECIFICATIONS AND COMMENTARIES FOR COMPOSITE STEEL FLOOR DECK, EXCEPT THAT CALCULATED THEORETICAL DEFLECTIONS AS DEFINED UNDER PARAGRAPH 3.3 SHALL NOT EXCEED L/240 OR 1 INCH, WHICHEVER IS SMALLER.
- THE METAL DECK SHALL BE DESIGNED TO BE CONTINUOUS OVER THREE (3) SPANS MINIMUM IN THE DIRECTION INDICATED. SINGLE AND DOUBLE SPANS, IF REQUIRED, SHALL SATISFY LOAD AND DEFLECTION REQUIREMENTS.
- COMPOSITE FLOOR DECK SHALL HAVE A GALVANIZED COATING CONFORMING TO ASTM A653 - COATING DESIGNATION G-60.
- THE FABRICATOR/ERECTOR SHALL PROVIDE ENGINEERING CALCULATIONS, PUBLISHED MANUFACTURER'S DATA AND INDEPENDENTLY CERTIFIED TEST DATA, VERIFYING THE SPECIFIED DECK REQUIREMENTS TO THE ENGINEER FOR REVIEW. PROVIDE ENGINEERING AND CHECKED SHOP DRAWINGS, INDICATING LOCATION, GAGE AND SIZE OF EACH PIECE OF DECKING. THE DRAWING SHALL CLEARLY SHOW WELDING DETAILS TO STRUCTURAL FRAMING AND SIDE LAP CONNECTION DETAILS.
- ALL NON-CELLULAR METAL DECK SHALL BE WIDE-RIB, SUITABLE FOR SHEAR STUD PLACEMENT WHERE STUDS ARE REQUIRED. THE CONFIGURATION OF THE METAL DECK SHALL BE SUCH AS TO DEVELOP THE FULL SHEAR VALUE OF THE STUD FOR THE PARTICULAR WEIGHTS OF THE CONCRETE AS LISTED IN THE AISC SPECIFICATIONS, LATEST EDITION. THE METAL DECK CONTRACTOR SHALL PROVIDE VERIFICATION OF THE STUD VALUES AND PROVIDE ADDITIONAL STUDS AS REQUIRED.
- ALL DECKING SHALL BE WELDED TO THE STRUCTURAL STEEL BY QUALIFIED WELDERS USING PRE-QUALIFIED PROCEDURES IN ACCORDANCE WITH AWS D1.1 SECTION 7, LATEST EDITION. THE ERECTOR SHALL ESTABLISH A WELDING PROCEDURE FOR THE PARTICULAR WEIGHTS OF THE STRUCTURAL STEEL FOR THE PARTICULAR GAGE USED. PRIOR TO THE START OF ERECTION OF THE STEEL DECK, EACH WELDER SHALL BE QUALIFIED USING THIS PROCEDURE AS WITNESSED BY THE OWNER'S TESTING AGENCY.



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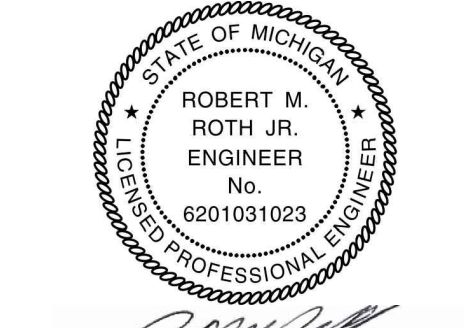
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METAL DECK (CONT.)

- ALL METAL DECK SHALL BE WELDED AT 12-INCHES ON CENTER MAXIMUM SPACING TO THE SUPPORTING STEEL WITH A MINIMUM 5/8 INCH DIAMETER PUDDLE WELD. SIDE LAPS SHALL BE FASTENED AT 36-INCHES ON CENTER MAXIMUM SPACING.
- NO LOADS SHALL BE PERMITTED TO BE HUNG FROM ANY ROOF DECK. ALL HANGERS FOR CEILINGS, DUCTWORK, ELECTRICAL CONDUIT, PIPING, ETC. SHALL BE HUNG DIRECTLY FROM STRUCTURAL STEEL WORK OR SUPPLEMENTARY MEMBERS.
- ALTERNATE PAF OR SCREW FASTENERS ARE ACCEPTABLE ALTERNATES.

MASONRY

- CONCRETE MASONRY UNITS (CMU) SHALL BE LAID WITH TYPE S OR M MORTAR AND ALL MORTAR SHALL CONFORM TO ASTM C270. MORTAR MAY BE EITHER TYPE N OR S U.N.O. - USE PORTLAND CEMENT/1/2" FOR MORTAR.
- CONCRETE MASONRY UNIT (CMU) PANELS SHALL HAVE HORIZONTAL JOINT REINFORCEMENT SPACED NOT MORE THAN 16 INCHES ON CENTER, LOCATED IN THE MORTAR BED JOINT, AND EXTENDING THE ENTIRE LENGTH OF THE PANEL, BUT NOT ACROSS EXPANSION JOINTS. LONGITUDINAL WIRES SHALL BE LAPPED A MINIMUM OF 6 IN. AT SPICES. JOINT REINFORCEMENT SHALL BE PLACED IN THE PANEL. THE REINFORCEMENT SHALL BE PLACED IN THE BED JOINT IMMEDIATELY BELOW AND ABOVE OPENINGS IN THE PANEL. THE REINFORCEMENT SHALL HAVE NOT LESS THAN TWO PARALLEL LONGITUDINAL WIRES OF SIZE W1.7, AND HAVE WELDED CROSS WIRES OF SIZE W1.7.
- CONCRETE MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH THE TMS 402/ACI 530/ASCE 5 BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES AND TMS 602/ACI 530/ASCE 6 SPECIFICATION FOR MASONRY STRUCTURES.
- ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C-90 GRADE N-1. CONCRETE MASONRY TO HAVE 28-DAY COMPRESSIVE STRENGTH FOR AN AVERAGE OF 3 UNITS OF AT LEAST  $f_{m'} = 1900 \text{ psi}$ .
- SPECIAL INSPECTION OF MASONRY CONSTRUCTION IS REQUIRED. REFER TO ACI 530, PART 1 AND MICHIGAN BUILDING CODE 2015, TABLE 1705.3 FOR MINIMUM QUALITY ASSURANCE REQUIREMENTS.
- CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO THE FOLLOWING STANDARDS:  
HOLLOW LOAD-BEARING UNITS: ASTM C90  
TYPE I, GRADE N  
SOLID LOAD-BEARING UNITS: ASTM C145  
MEDIUM WEIGHT UNITS: 110 TO 125 PCF  
REGULAR WEIGHT UNITS: 135 PCF
- POURABLE CONSISTENCY GROUT SHALL BE USED TO FILL CAVITIES AT BEAM, JOIST AND METAL DECK BEARING, AT VERTICAL FILL OF HOLLOW CORES, AND IN BOND BEAMS AND REINFORCED MASONRY BEAMS, PIERS OR COLUMNS. GROUT SHALL CONFORM TO ASTM C476 WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- STEEL BAR REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER OR TRUSS TYPE.
- VERTICAL CELLS CONTAINING REINFORCING AND GROUT SHALL FORM A CONTINUOUS CAVITY, FREE OF MORTAR DROPPINGS.
- VERTICAL REINFORCING SHALL BE FULLY GROUTED IN THE CORES OF THE CONCRETE MASONRY UNITS AND SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS BUT NOT LESS THAN 24 INCHES. THE VERTICAL REINFORCEMENT SHALL BE LAPPED WITH DOWELS OF SAME SIZE AND SPACING WHICH HAVE BEEN PREVIOUSLY INSTALLED IN THE FOUNDATIONS. EMBEDMENT OF DOWELS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318.
- VERTICAL REINFORCING SHALL BE PLACED IN THE CENTER OF THE CELL, UNLESS SPECIFICALLY SHOWN OTHERWISE. ALLOWABLE SPACING TOLERANCE IS  $\pm 1/2$ ". THE USE OF REINFORCEMENT BAR POSITIONERS IS REQUIRED.
- GROUTING OF MASONRY WALLS SHALL CONFORM TO THE RECOMMENDED PROCEDURE FOR "LOW LIFT GROUTING" OR "HIGH LIFT GROUTING" AS OUTLINED IN THE NCMA - TEK NOTE #3-2A - GROUTING CONCRETE MASONRY WALLS.
- LIFTS OF GROUT SHALL BE KEYPED 4 INCHES INTO THE PREVIOUS COURSE OF MASONRY BELOW.
- SAMPLING AND TESTING OF MORTAR AND GROUT SHALL BE IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE NCMA - TEK NOTE #107 LABORATORY AND FIELD TESTING OF MORTAR AND GROUT.
- TESTING OF MASONRY PRISMS SHALL BE IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE NCMA-TEK NOTE #18-01B - EVALUATING THE COMPRESSIVE STRENGTH OF CONCRETE MASONRY - 2012 IBC/2011 MSJC.
- HOLLOW MASONRY UNIT SHALL HAVE FACE SHELL BEDDING EXCEPT FOR PIERS, COLUMNS, PILASTERS, THE COURSE IMMEDIATELY ABOVE FDNS, AND WHERE CONTAINMENT OF GROUT OR LOOSE FILL INSULATION REQUIRES THAT WEBS AND FACE SHELLS BE MORTARED. IN FULLY GROUTED OR UNGROUTED MASONRY ONLY THE FACE SHELLS NEED TO BE MORTARED UNLESS OTHERWISE NOTED.
- PROVIDE CONTROL JOINTS IN ABOVE GRADE EXPOSED MASONRY WALLS FOR THE FOLLOWING CONDITIONS:  
A. AT THE PERPENDICULAR WALLS, ONE-HALF CONTROL JOINT SPACING FROM THE CORNERS.  
B. AT CHANGE IN WALL HEIGHT.  
C. AT CHANGE IN WALL THICKNESS.  
D. AT 25'-0" O.C. IN LONG CONTINUOUS WALLS.

SPECIAL INSPECTIONS & TESTS

SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF IBC SECTION 1704. SPECIAL INSPECTOR(S) SHALL BE HIRED BY THE OWNER TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THE NAMES OF PERSONS OR FIRMS WHO ARE TO PERFORM THE SPECIAL INSPECTIONS SHALL BE FORWARDED TO THE BUILDING OFFICIAL FOR APPROVAL. THE SPECIAL INSPECTOR(S) SHALL COMPLETE AND SUBMIT ALL FORMS REQUIRED BUILDING OFFICIAL.

- THE SPECIAL INSPECTOR(S) SHALL:
  - OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWING AND SPECIFICATIONS.
  - FURNISH INSPECTION REPORTS TO THE ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED, TO THE ENGINEER AND THE BUILDING DEPARTMENT.
  - SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.

- SPECIAL INSPECTION NOTES:
  - CONTINUOUS SPECIAL INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS SPECIFICALLY NOTED BELOW.
  - WHERE FABRICATION OF THE STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK EXCEPT AS ALLOWED IN IBC SECTION 1704.2.5 AND UNLESS SPECIFICALLY NOTED BELOW.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE NOTICE, NO LESS THAN ONE WORKING DAY, OF THE INITIATION OF ANY WORK REQUIRED TO HAVE SPECIAL INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL.
- TYPES OF WORK REQUIRING SPECIAL INSPECTIONS ARE:
  - STRUCTURAL STEEL ELEMENTS** OF BUILDINGS AND STRUCTURES AS REQUIRED BY IBC SECTION 1705.2.1 AND AISC 360 SECTION 17.
  - COLD-FORMED STEEL DECK** AS REQUIRED BY IBC SECTION 1705.2.2 AND SDI QA/QC.
  - OPEN-WEB STEEL JOISTS AND JOIST GIRDERS** AS REQUIRED BY IBC SECTION 1705.2.3 AND TABLE 1705.2.3, AS FOLLOWS:  
PERIODIC SPECIAL INSPECTION IN COMPLIANCE WITH SJI SPECIFICATIONS, SECTION 2207.1 FOR INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS REQUIRED FOR:  
    - END CONNECTIONS - WELDING OR BOLTED.
    - BRIDGING - HORIZONTAL OR DIAGONAL, APPLIES TO BOTH STANDARD BRIDGING AND BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
  - CONCRETE CONSTRUCTION** AS REQUIRED BY IBC SECTION 1705.3 AND TABLE 1705.3, AS FOLLOWS:
    - WELDING OF REINFORCING BARS** AS REQUIRED BY IBC SECTION 1705.3.1 AND IN COMPLIANCE WITH AWS D1.4 FOR SPECIAL INSPECTION AND AWS D1.4 FOR SPECIAL INSPECTOR QUALIFICATION.
    - MATERIAL TESTS** AS REQUIRED BY IBC SECTION 1705.3.2 AND ACI 318, CHAPTERS 19 AND 20.

SPECIAL INSPECTIONS & TESTS (CONT.)

IBC TABLE 1705.3 - REQ'D. SPECIAL INSPECTION OF CONC. CONSTRUCTION		
INSPECTION TYPE	CONTINUOUS INSPECTION	PERIODIC INSPECTION
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		X
2. REINFORCING BAR WELDING:		
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $1/8"$ , AND		X
c. INSPECT ALL OTHER WELDS	X	
3. INSPECT ANCHORS CAST IN CONCRETE.		X
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.		X
5. VERIFY USE OF REQUIRED DESIGN MIX.		X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X
9. INSPECT PRESTRESSED CONCRETE FOR:		
a. APPLICATION OF PRESTRESSING FORCES; AND	X	
b. GROUTING OF BONDED PRESTRESSING TENDONS.	X	
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.		X
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X

E. MASONRY CONSTRUCTION AS REQUIRED BY IBC SECTION 1705.4 AND LEVEL B SPECIAL INSPECTIONS OF TMS 402/ACI 530/ASCE 5 AS FOLLOWS:

TMS TABLE 3.1.2 - LEVEL B QUALITY ASSURANCE		
INSPECTION TASK	MINIMUM SPECIAL INSPECTION FREQUENCY	
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
a. PROPORTIONS OF SITE-PREPARED MORTAR		X
b. CONSTRUCTION OF MORTAR JOINTS		X
c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X
d. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X
e. PRESTRESSING TECHNIQUE		X
f. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X	X
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
a. GROUT SPACE		X
b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X
e. CONSTRUCTION OF MORTAR JOINTS		
4. VERIFY DURING CONSTRUCTION:		
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X
b. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X
c. WELDING OF REINFORCEMENT	X	
d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32°))		X
e. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	
f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	
g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X	X
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X

- SOILS AS REQUIRED BY IBC 1705.6 AND TABLE 1705.6 AS FOLLOWS:
  - PERIODIC SPECIAL INSPECTION REQUIRED TO:
    - VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
    - VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.
    - PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.
    - PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED.
  - CONTINUOUS SPECIAL INSPECTION REQUIRED TO:
    - VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
    - COMPACTED SOIL BACKFILL IN COMPLIANCE WITH SECTION 1803 SHALL REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH ASTM D1557.
- FABRICATED ITEMS AS REQUIRED BY IBC SECTION 1705.10 AND SECTION 1704.2.5.



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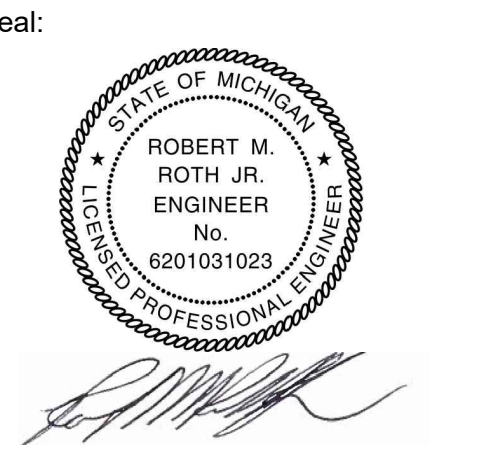
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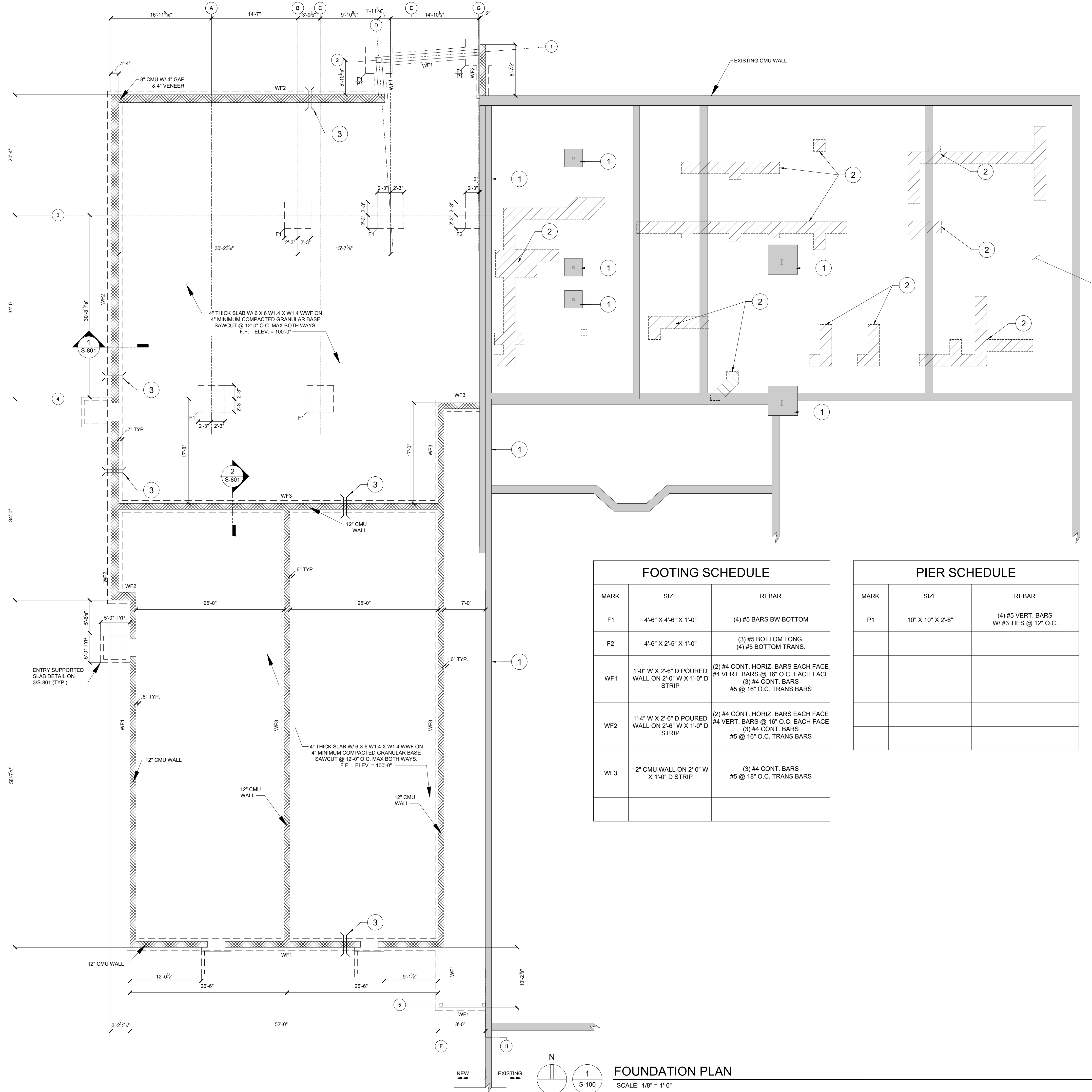
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Sheet Title:  
**STRUCTURAL  
GENERAL NOTES**

Project Number: **22712.A**

Sheet Number: **S-001**

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**FOUNDATION PLAN NOTES:**

- 1 EXISTING FOOTINGS
- 2 APPROXIMATE LOCATION AND SIZE OF CONCRETE FLOOR SLAB TO BE REPLACED AS NEEDED AFTER INSTALLING NEW FLOOR DRAINS AND ASSOCIATED PIPING.
- 3 APPROXIMATE LOCATION OF PLUMBING SLEEVE. COORDINATE W/ SITE UTILITIES & PLUMBING PLANS.

FOOTING SCHEDULE		
MARK	SIZE	REBAR
F1	4'-6" X 4'-6" X 1'-0"	(4) #5 BARS BW BOTTOM
F2	4'-6" X 2'-5" X 1'-0"	(3) #5 BOTTOM LONG. (4) #5 BOTTOM TRANS.
WF1	1'-0" W X 2'-6" D POURED WALL ON 2'-0" W X 1'-0" D STRIP	(2) #4 CONT. HORIZ. BARS EACH FACE #4 VERT. BARS @ 16" O.C. EACH FACE (3) #4 CONT. BARS #5 @ 16" O.C. TRANS BARS
WF2	1'-4" W X 2'-6" D POURED WALL ON 2'-6" W X 1'-0" D STRIP	(2) #4 CONT. HORIZ. BARS EACH FACE #4 VERT. BARS @ 16" O.C. EACH FACE (3) #4 CONT. BARS #5 @ 16" O.C. TRANS BARS
WF3	12" CMU WALL ON 2'-0" W X 1'-0" D STRIP	(3) #4 CONT. BARS #5 @ 18" O.C. TRANS BARS

PIER SCHEDULE		
MARK	SIZE	REBAR
P1	10" X 10" X 2'-6"	(4) #5 VERT. BARS W/ #3 TIES @ 12" O.C.

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**FOUNDATION PLAN**

Project Number: 22712.A

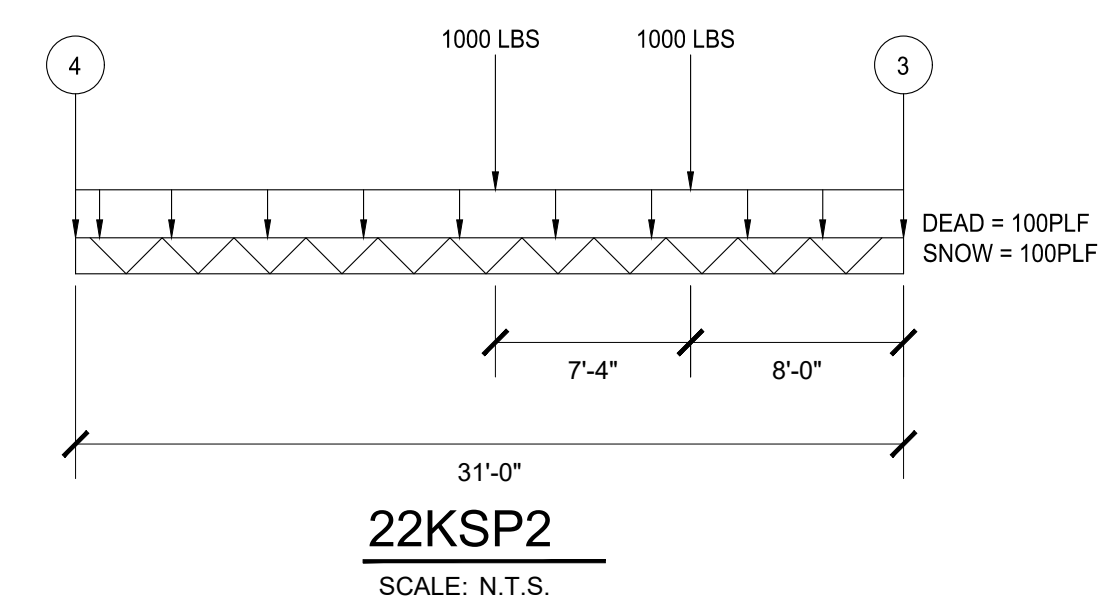
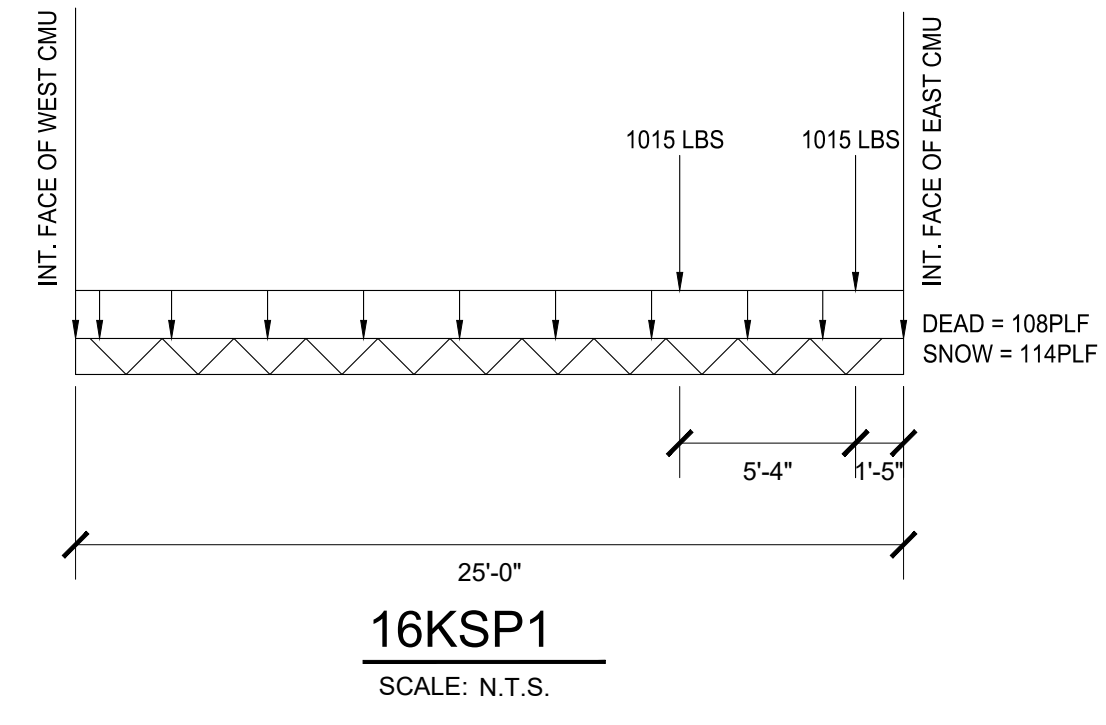
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**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"

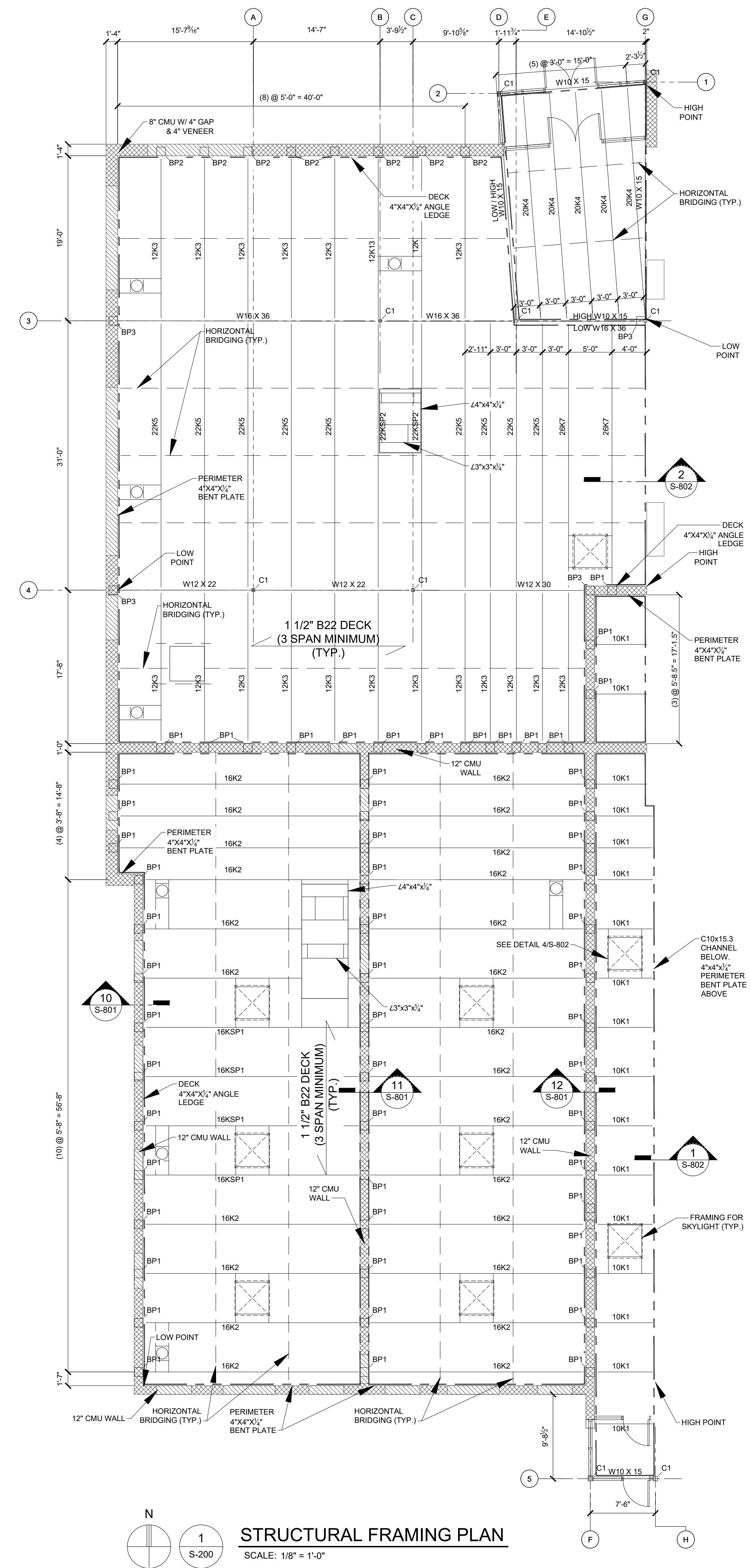


- ROOF GENERAL NOTES**
1. JOIST MANUFACTURER SHALL DESIGN JOISTS FOR ADDITIONAL LOADS AT LOCATIONS SHOWN.
  2. JOIST DESIGNATION: SP - SPECIAL JOIST.
  3. METAL ROOF DECK: 3 SPAN MIN.  $\frac{3}{8}$ " FASTENER PATTERN W/ MIN. 3 SIDE LAP FASTENERS U.N.O.
  4. ROOF DECK SUPPORT FASTENERS:  $\frac{1}{2}$ " PUDDLE WELDS OR #12 TEK SCREWS U.N.O.
  5. ROOF DECK SIDE LAP FASTENERS: #10 TEK SCREWS.
  6. TYPICAL SYMBOLS:  
(BEAM SIZE)  
(MOMENT CONNECTION)
  7. DESIGN BEAM SHEAR CONNECTIONS FOR A MIN. OF 50% MAXIMUM TOTAL UNIFORM LOAD OR 10 KIPS, WHATEVER IS GREATER.
  8. DESIGN MOMENT CONNECTION FOR 50% OF BEAM MOMENT CAPACITY
  9. 10 PSF NET UPLIFT @ ROOF JOISTS.
  10. DESIGN BEAM SPLICE CONNECTIONS FOR A MIN. OF 10K ASD AXIAL LOAD.
  11. GC SHALL CONFIRM EQUIPMENT ROOF CURB SIZES FOR SKYLIGHTS, ROOF ACCESS HATCH AND HVAC EQUIPMENT PRIOR TO STEEL SHOP DRAWING APPROVAL.



COLUMN SCHEDULE				
MARK	DESCRIPTION	BASEPLATE	ANCHORS	MINIMUM EMBEDMENT
C1	HSS 4" X 4" X 3/16"	TBD	TBD	TBD

BEARING PLATE SCHEDULE		
MARK	SIZE	ANCHORAGE
BP1	11"x7"x $\frac{3}{8}$ "	(2) $\frac{1}{2}$ " $\phi$ x5" STUDS
BP2	7"x7"x $\frac{3}{8}$ "	(2) $\frac{1}{2}$ " $\phi$ x5" STUDS
BP3	7"x12"x $\frac{3}{4}$ "	(2) $\frac{1}{2}$ " $\phi$ x5" STUDS



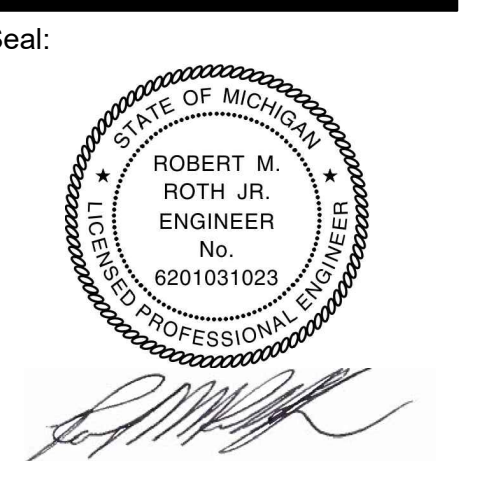
**STRUCTURAL FRAMING PLAN**  
SCALE: 1/8" = 1'-0"



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**STRUCTURAL FRAMING PLAN**

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Sheet Number: **S-200**

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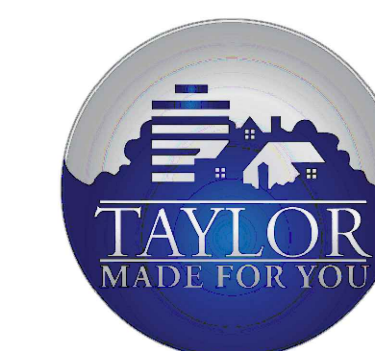


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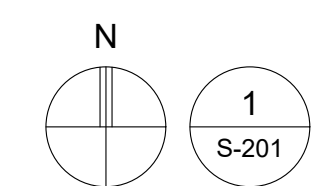
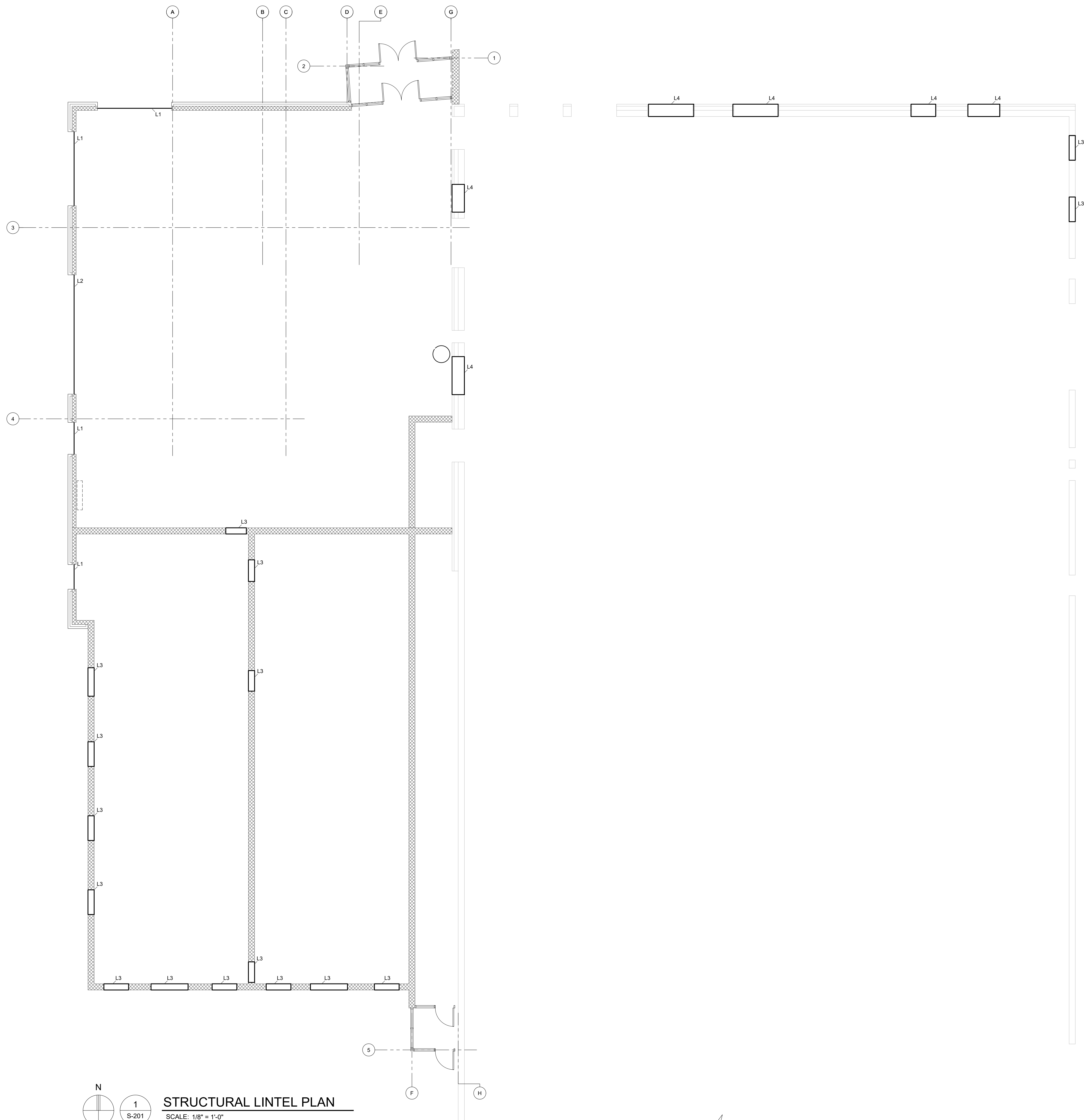
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**STRUCTURAL  
LINTEL PLAN**

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**STRUCTURAL LINTEL PLAN**  
SCALE: 1/8" = 1'-0"

LINTEL SCHEDULE	
MARK	SIZE
L1	W8x15 W/ 14"x3/8" PLATE + L3x3x3/8 STIFFENERS @ 1'-0" O.C.
L2	W8x21 W/ 14"x3/8" PLATE + L3x3x3/8 STIFFENERS @ 1'-0" O.C.
L3	16"D MASONRY LINTEL W/ (2) #5 BARS
L4	W8x15 W/ 23"x3/8" BOTTOM PLATE + 20"x3/8" TOP PLATE

\* ALL LINTELS HAVE 8" BEARING



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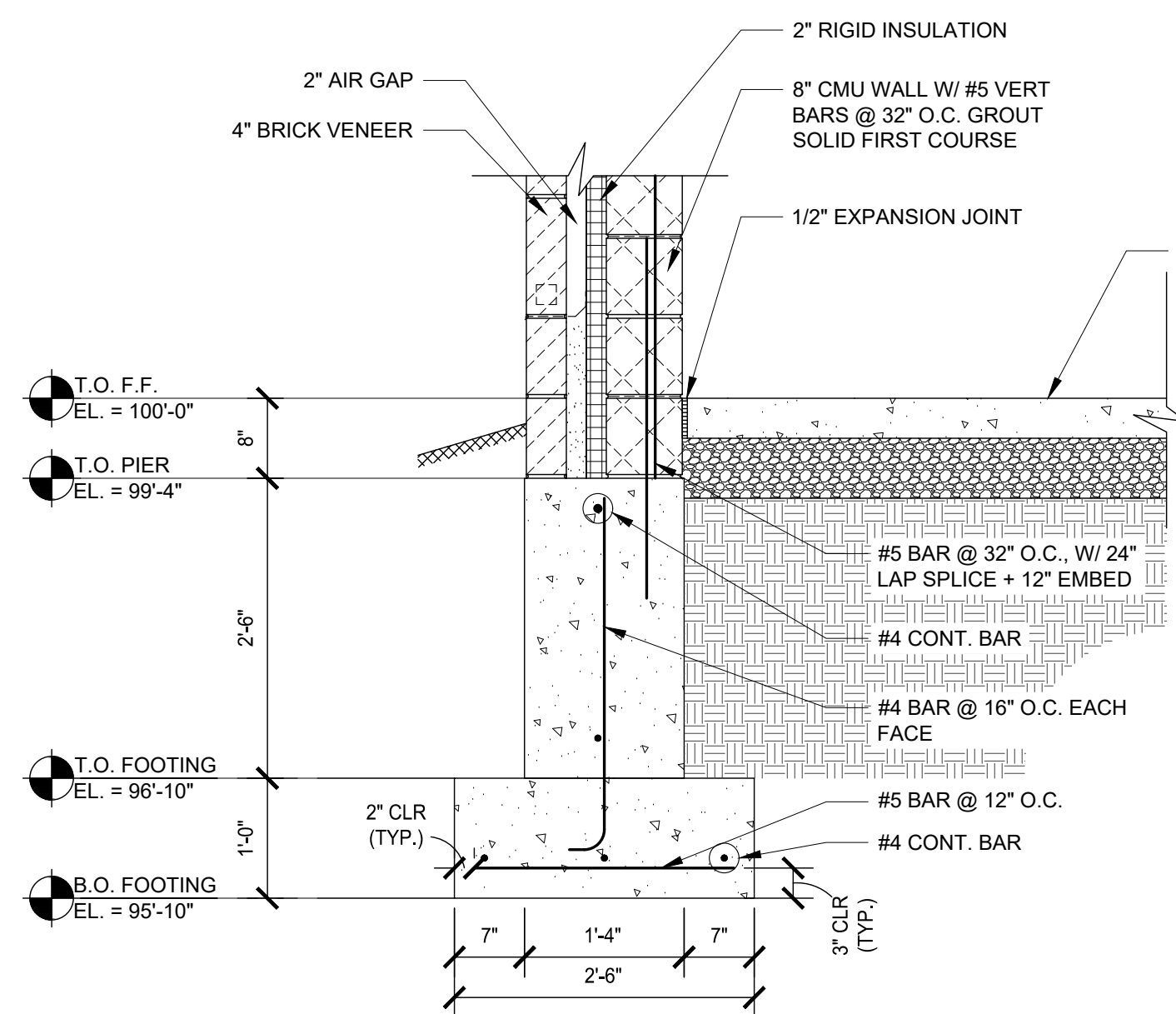
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DETAILS**

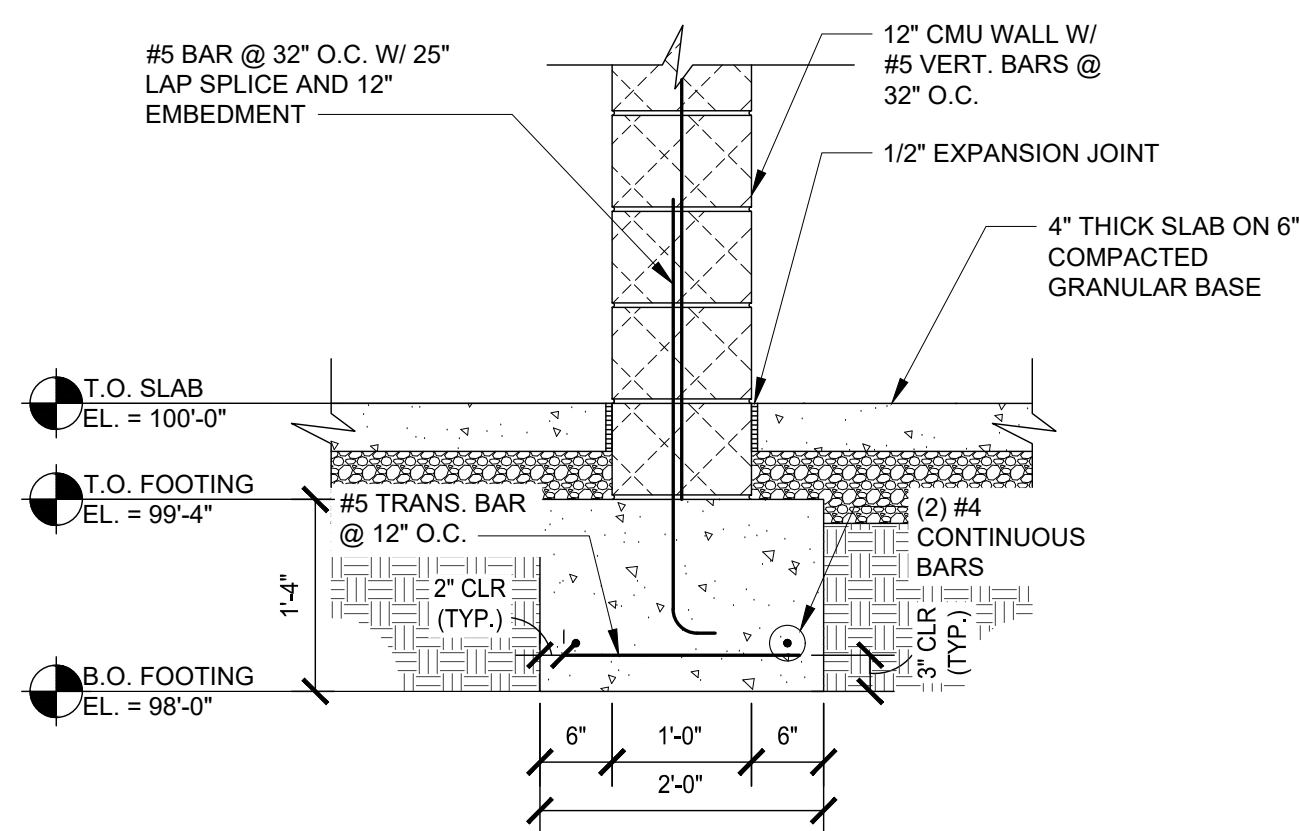
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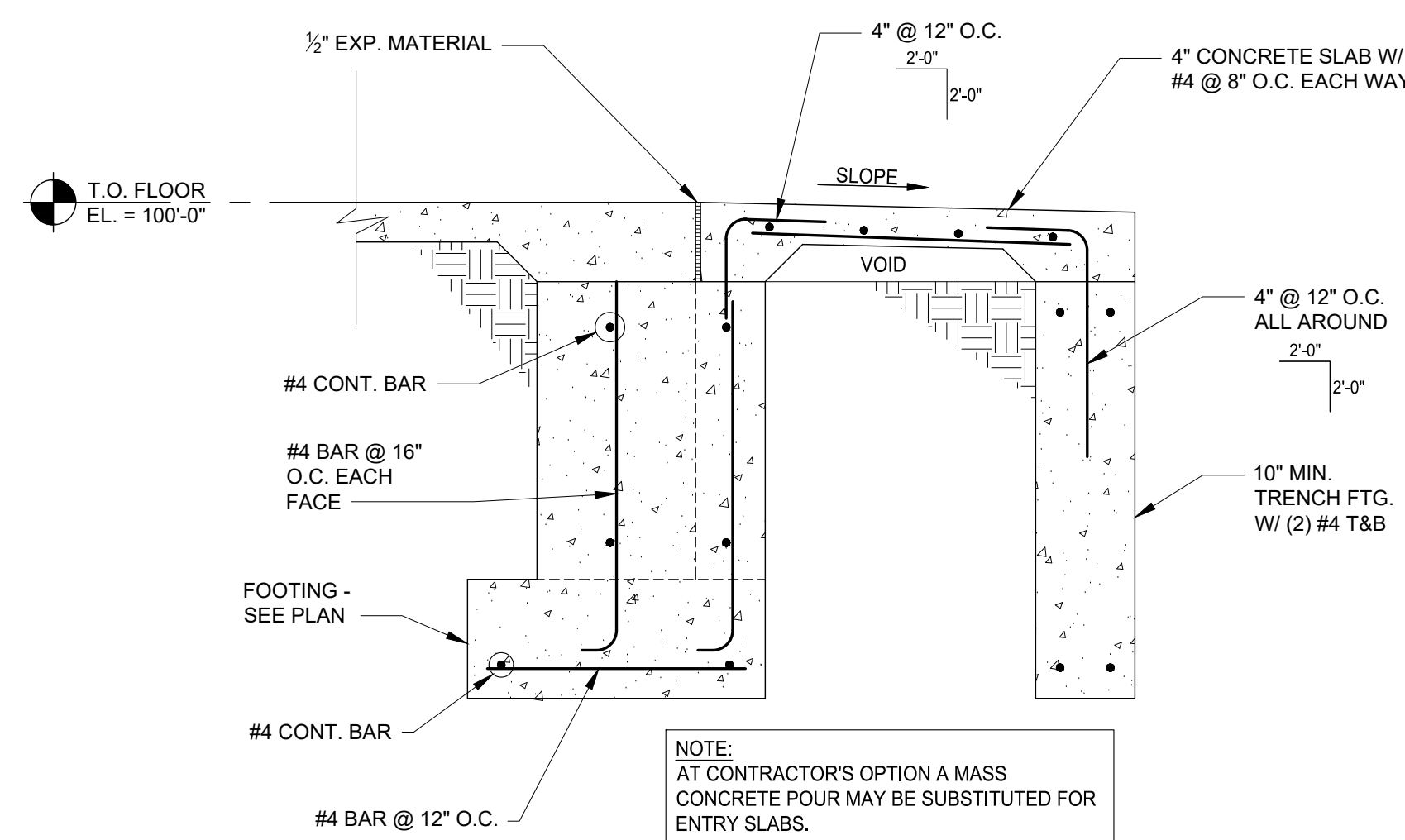
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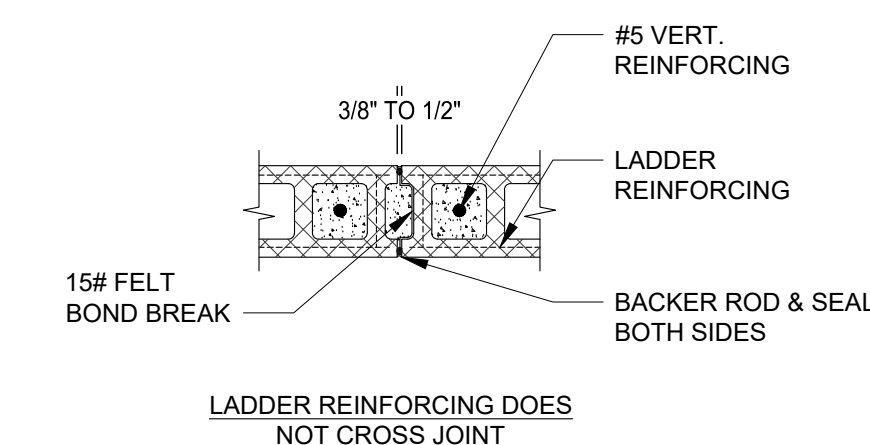
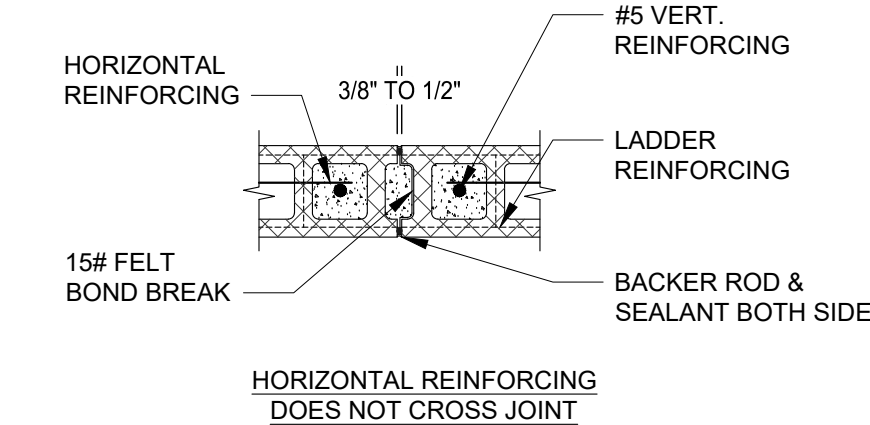
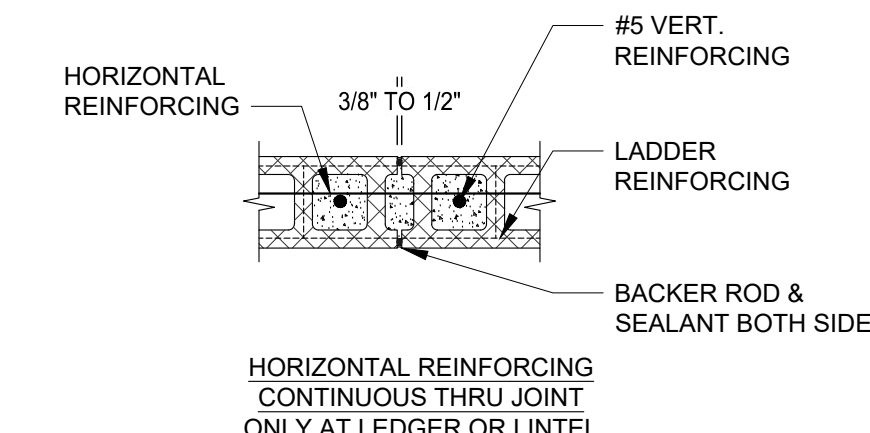
**1 SECTION**  
S-801 SCALE: 3/4" = 1'-0"



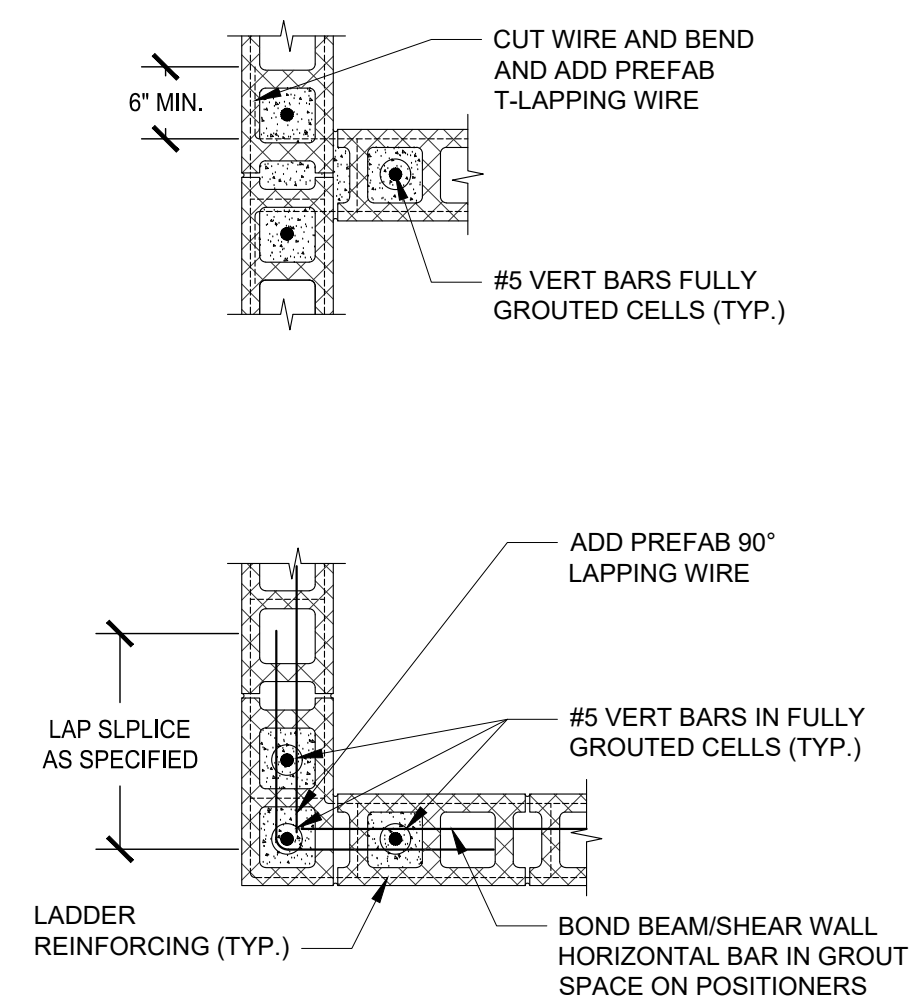
**2 SECTION**  
S-801 SCALE: 3/4" = 1'-0"



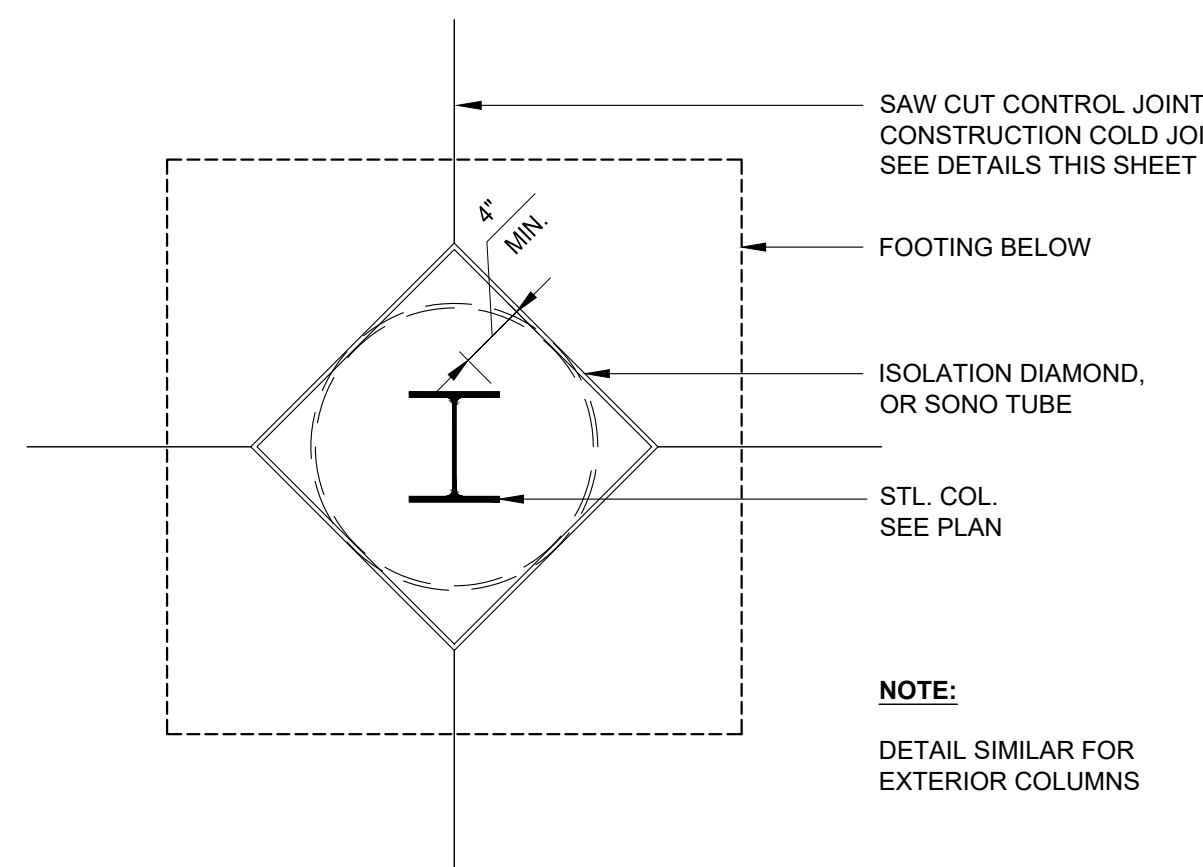
**3 ENTRY SUPPORTED SLAB DETAIL (TYP.)**  
S-801 SCALE: 3/4" = 1'-0"



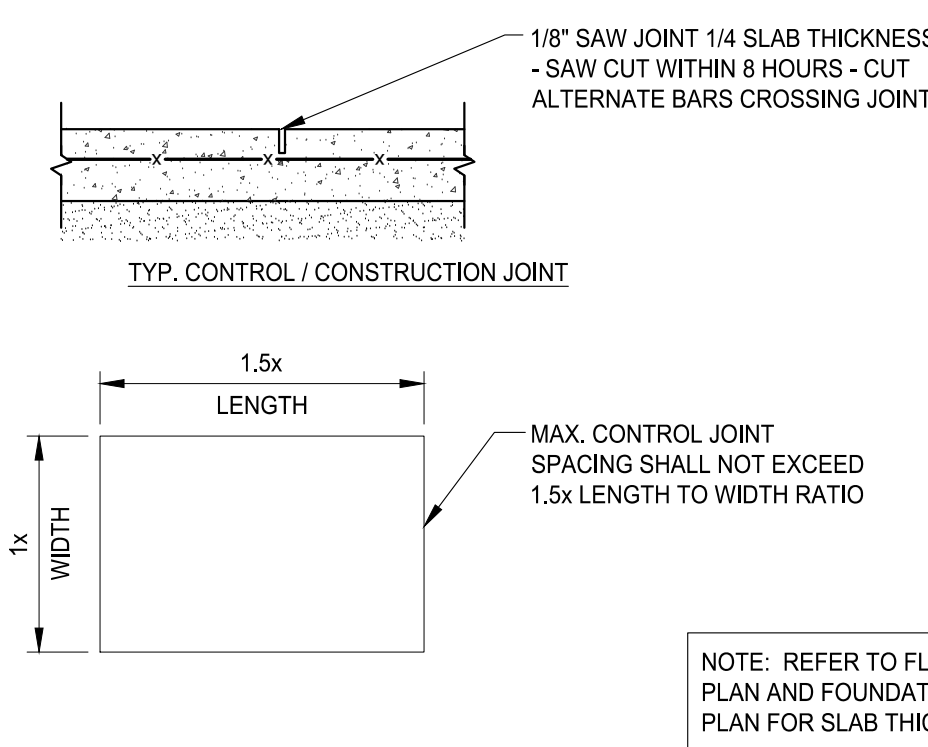
**4 CMU WALL CONTROL JOINTS (TYP.)**  
S-801 SCALE: 3/4" = 1'-0"



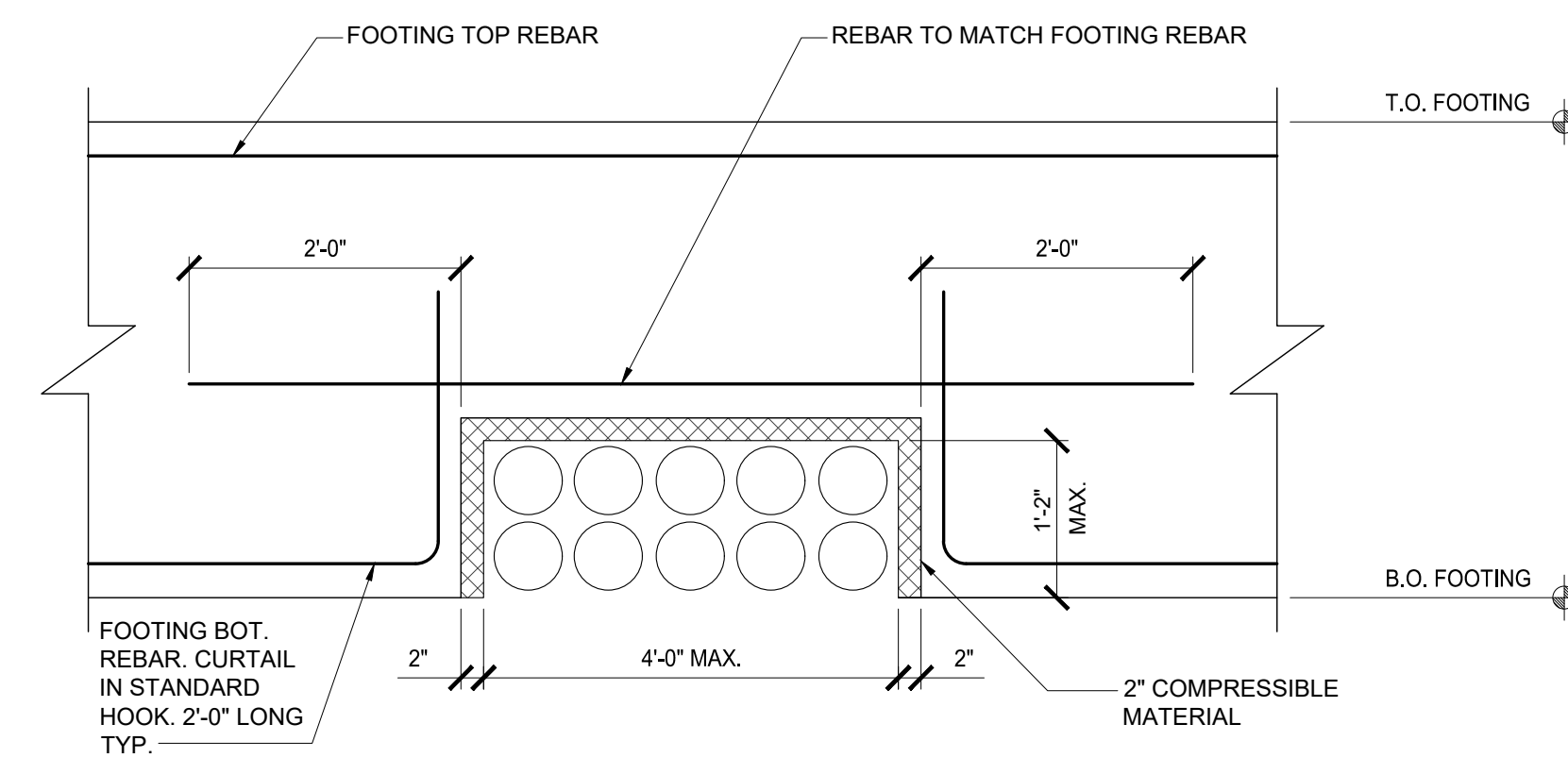
**5 CMU WALL INTERSECTIONS (TYP.)**  
S-801 SCALE: 3/4" = 1'-0"



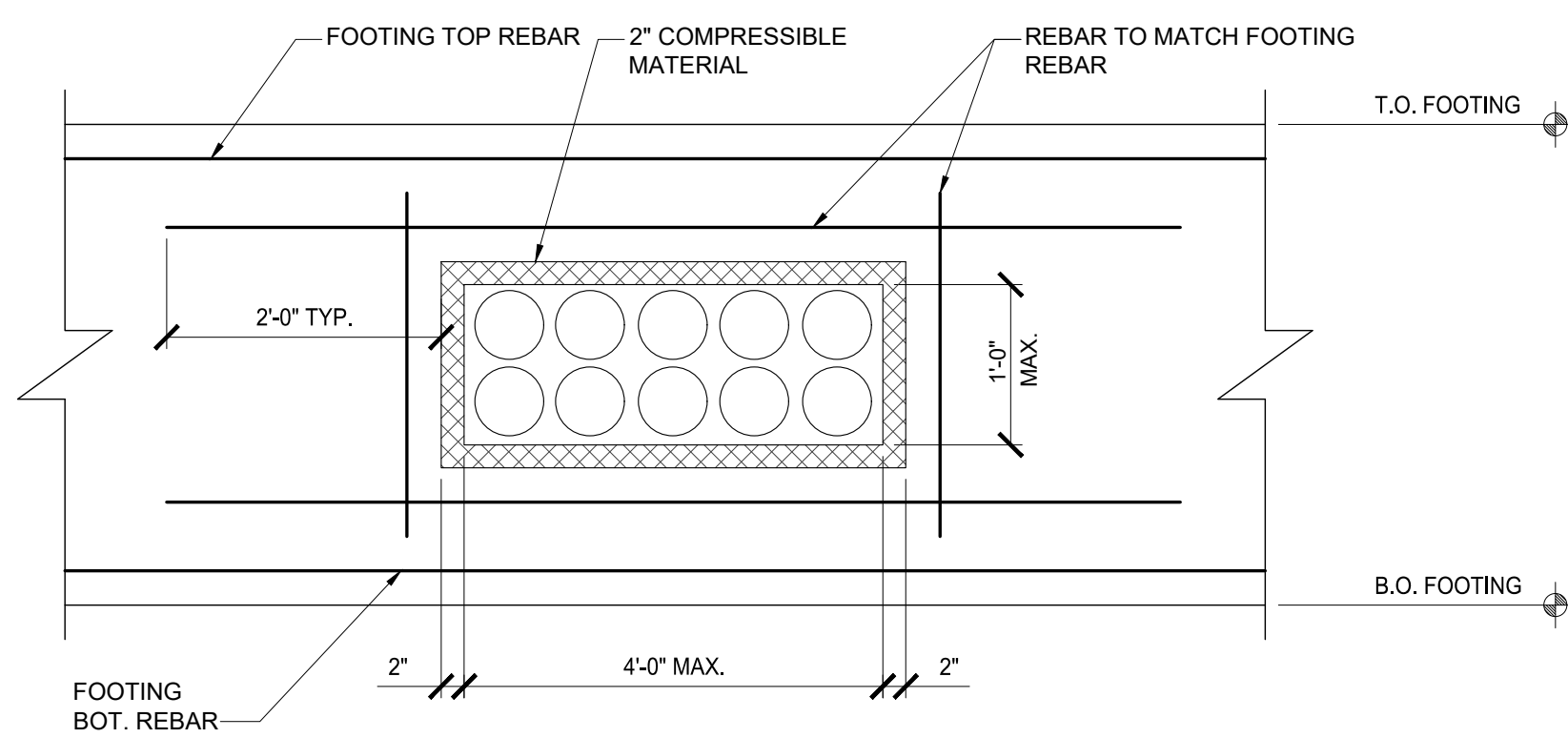
**6 ISOLATION JOINT @ COLUMN (TYP.)**  
S-801 SCALE: 3/4" = 1'-0"



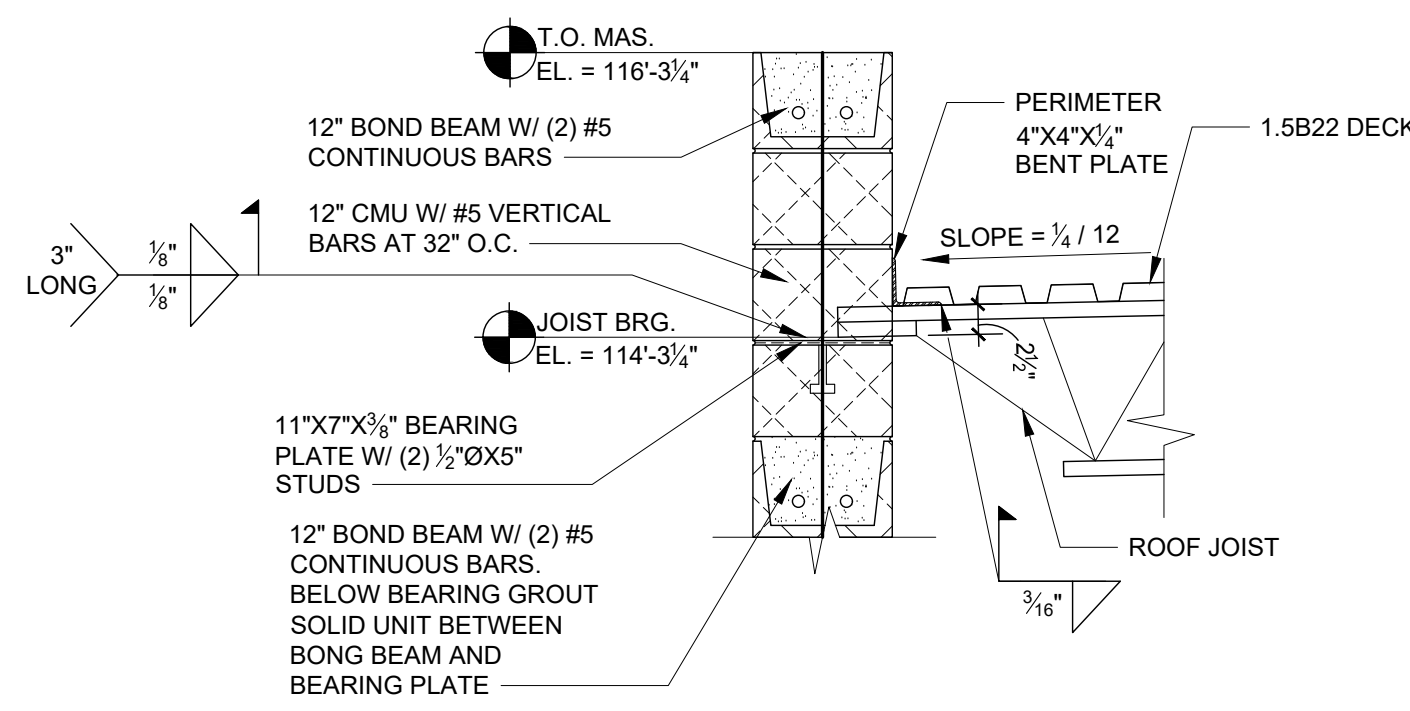
**7 JOINT DETAILS (TYP.)**  
S-801 SCALE: 3/4" = 1'-0"



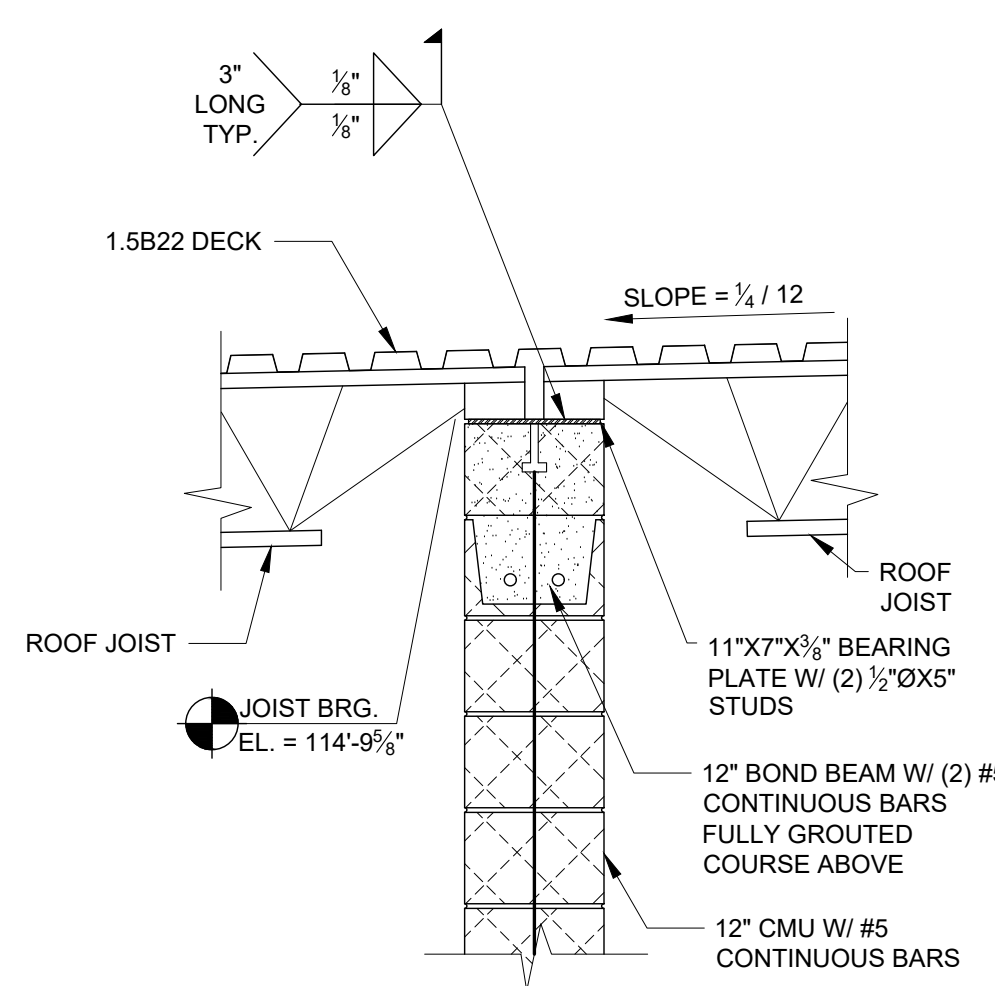
**8 DETAIL OF PIPE AT CONC. FOOTING (TYP.)**  
S-801 SCALE: 3/4" = 1'-0"



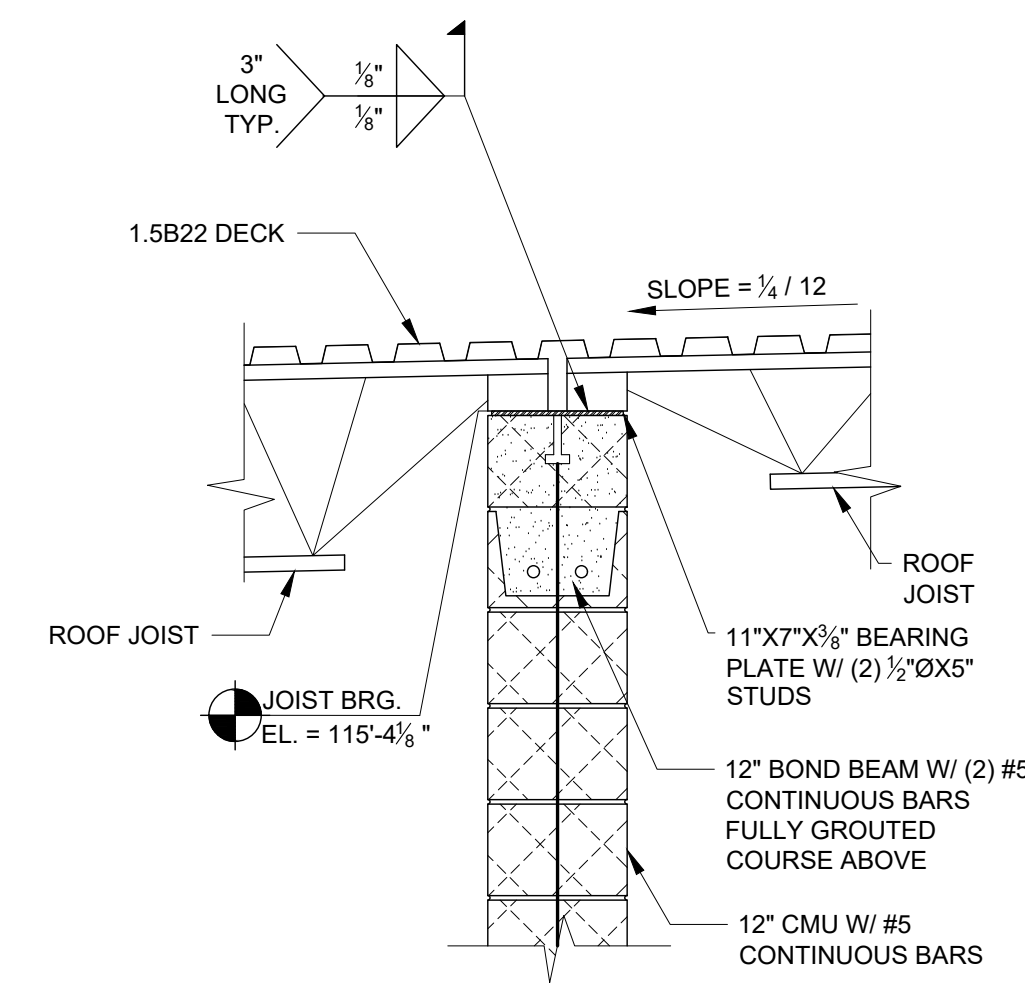
**9 DETAIL OF PIPE AT CONC. FOOTING (TYP.)**  
S-801 SCALE: 3/4" = 1'-0"



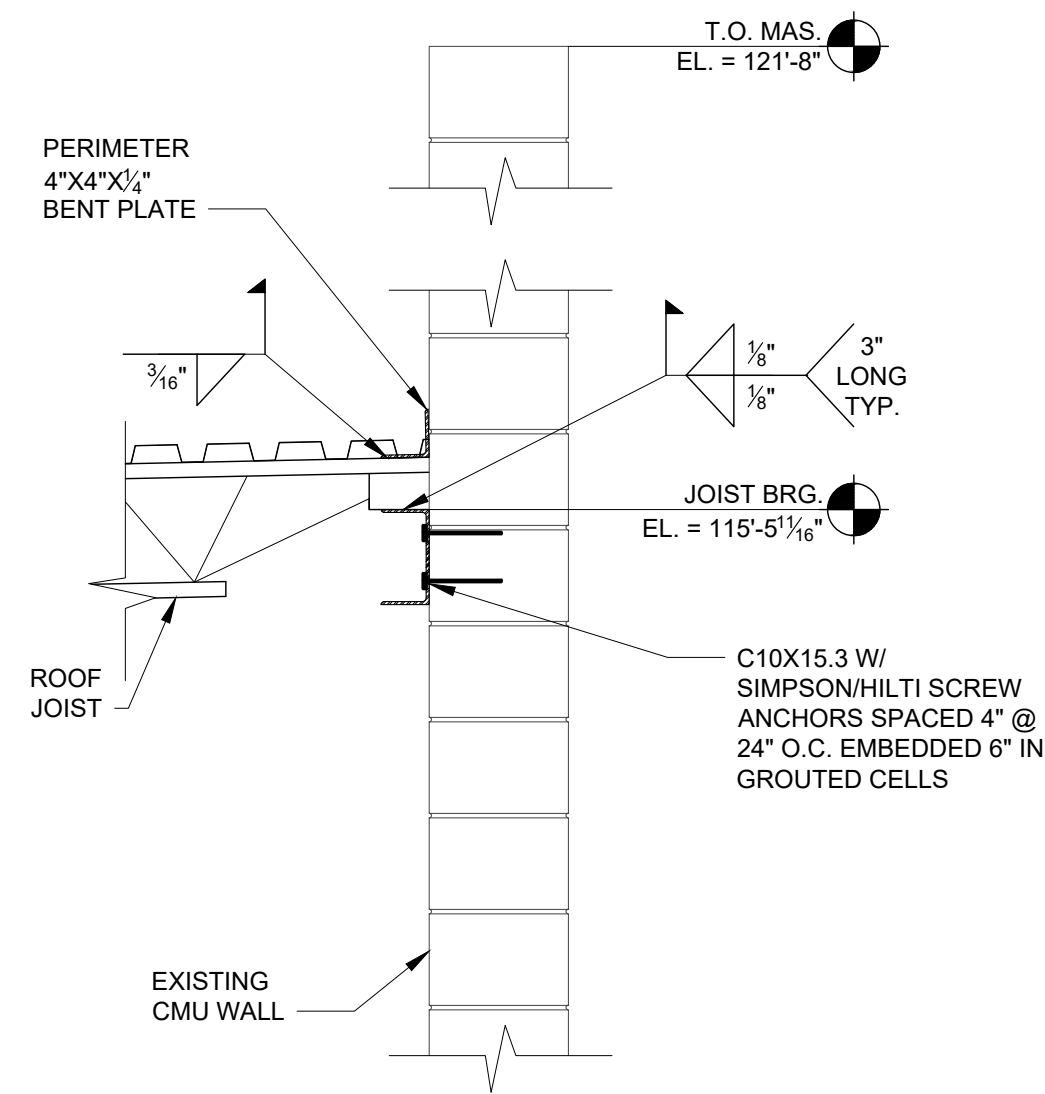
**10 SECTION**  
S-801 SCALE: 3/4" = 1'-0"



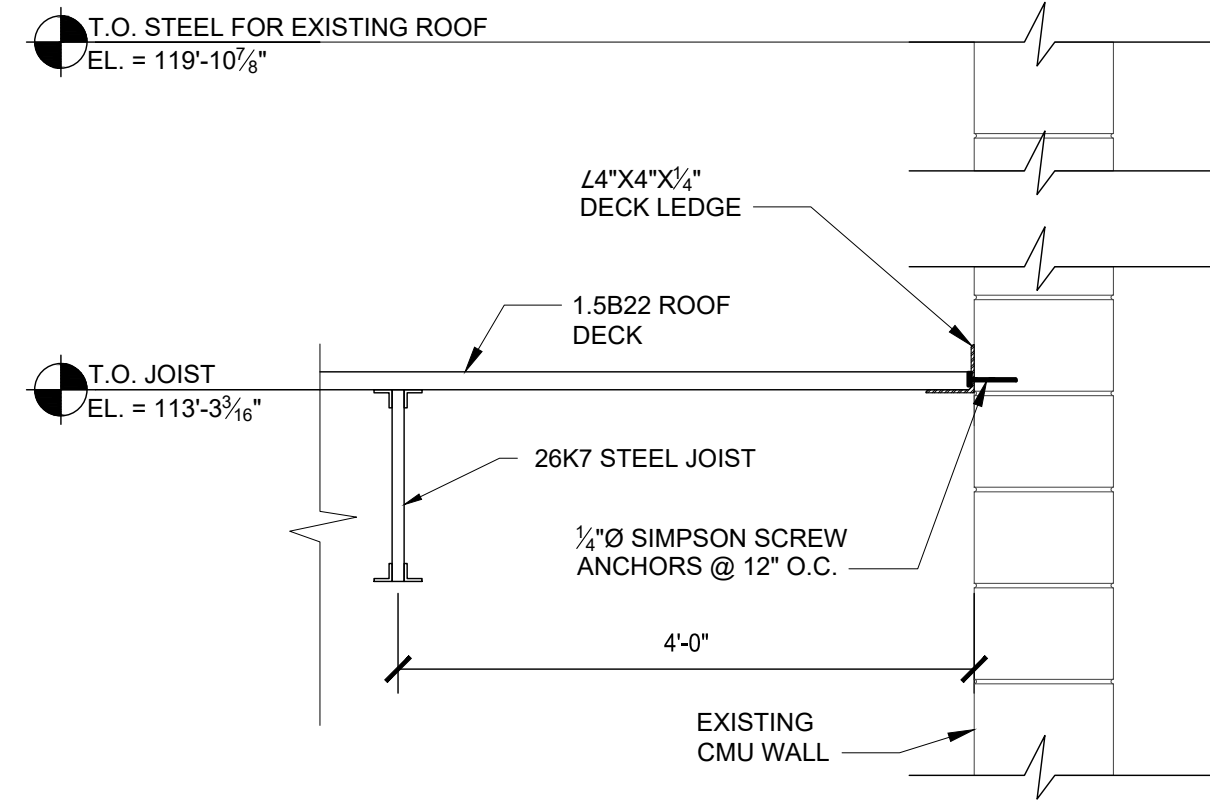
**11 SECTION**  
S-801 SCALE: 3/4" = 1'-0"



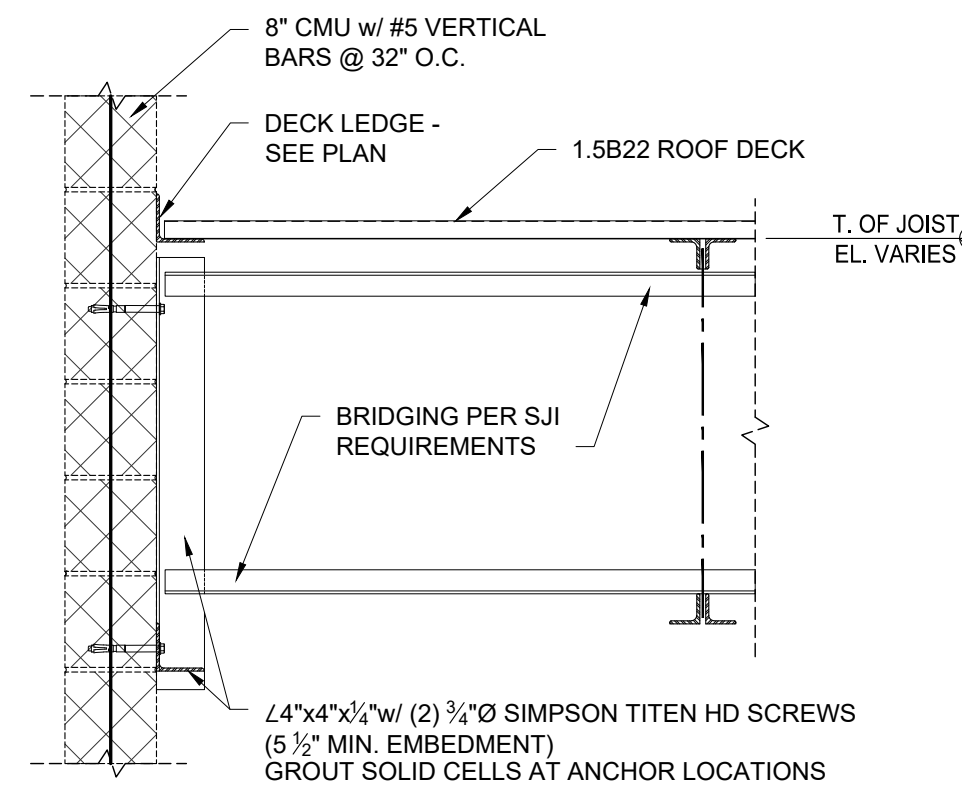
**12 SECTION**  
S-801 SCALE: 3/4" = 1'-0"



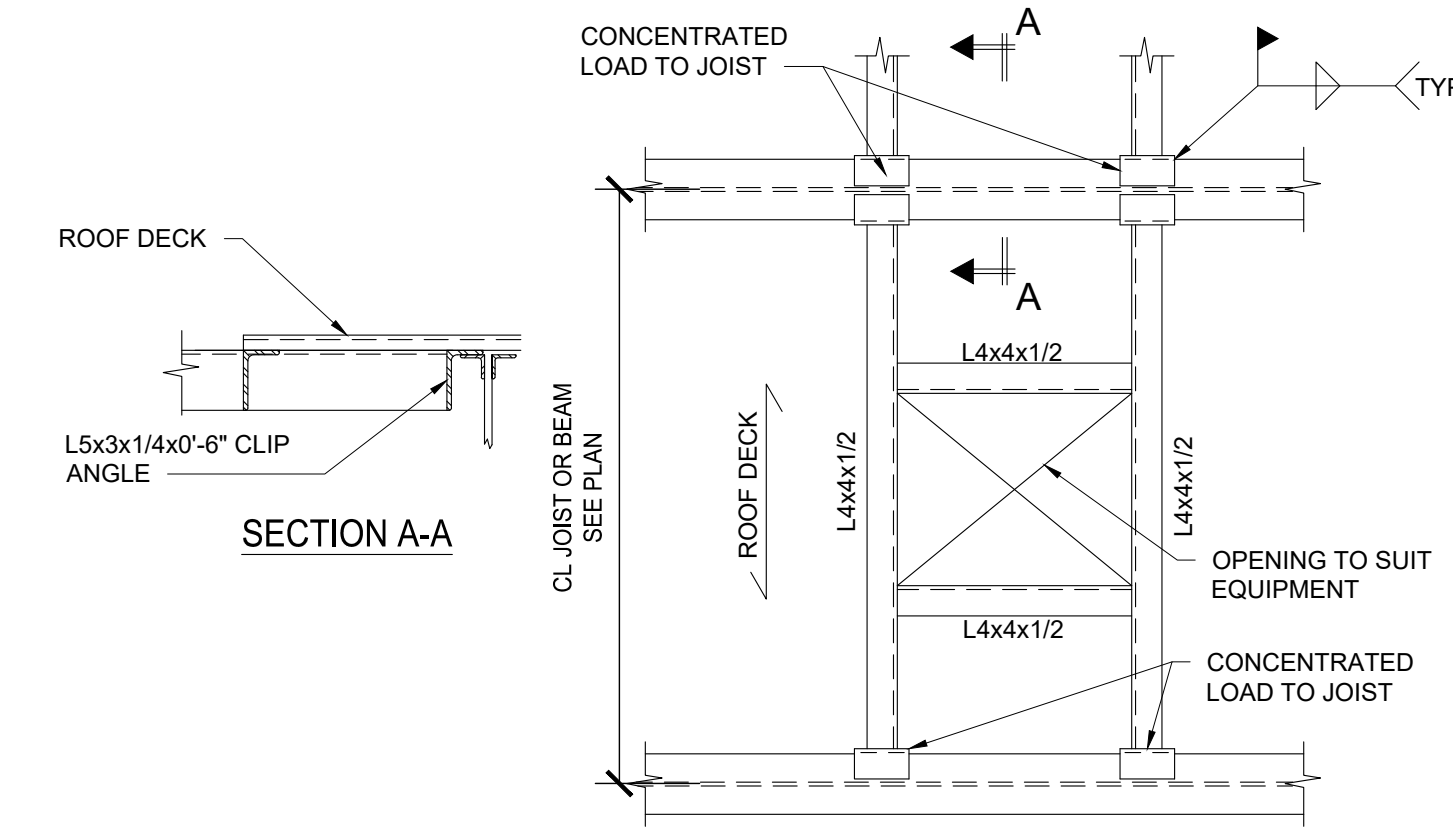
**1 SECTION**  
S-802 SCALE: 3/4" = 1'-0"



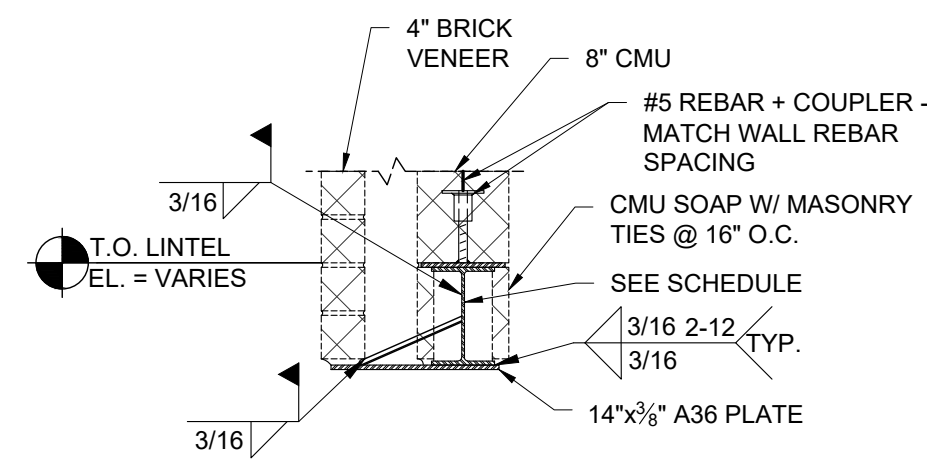
**2 LOW ROOF-TO-EXISTING SECTION DETAIL**  
S-802 SCALE: 3/4" = 1'-0"



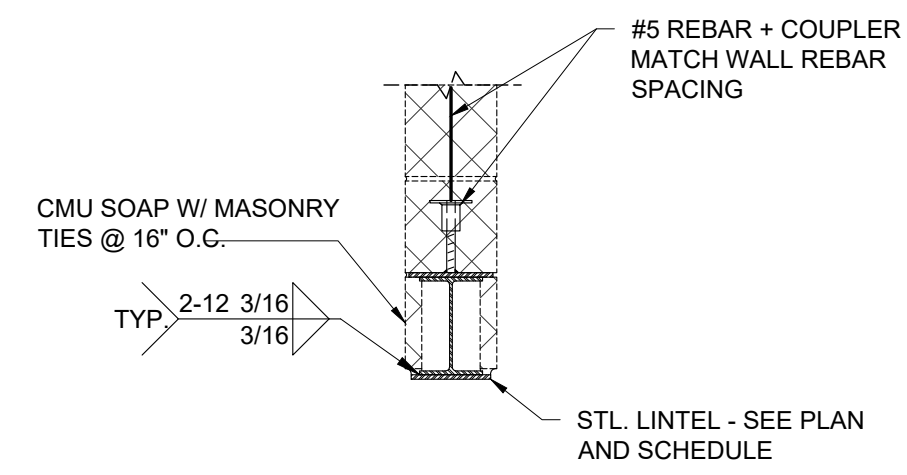
**3 HORIZONTAL BRIDGING TO CMU WALL DETAIL (TYP.)**  
S-802 SCALE: 3/4" = 1'-0"



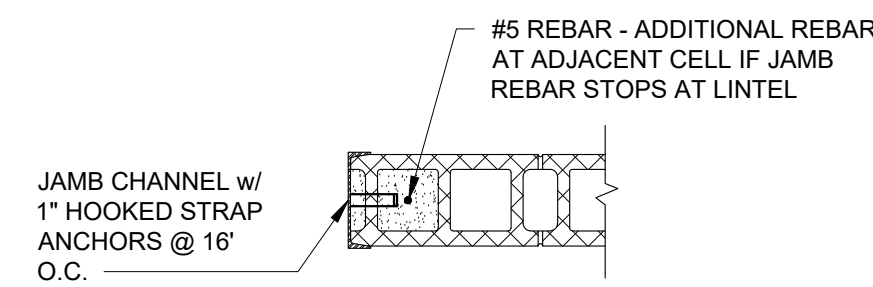
**4 ROOF OPENING FRAME DETAIL (TYP.)**  
S-802 SCALE: 3/4" = 1'-0"



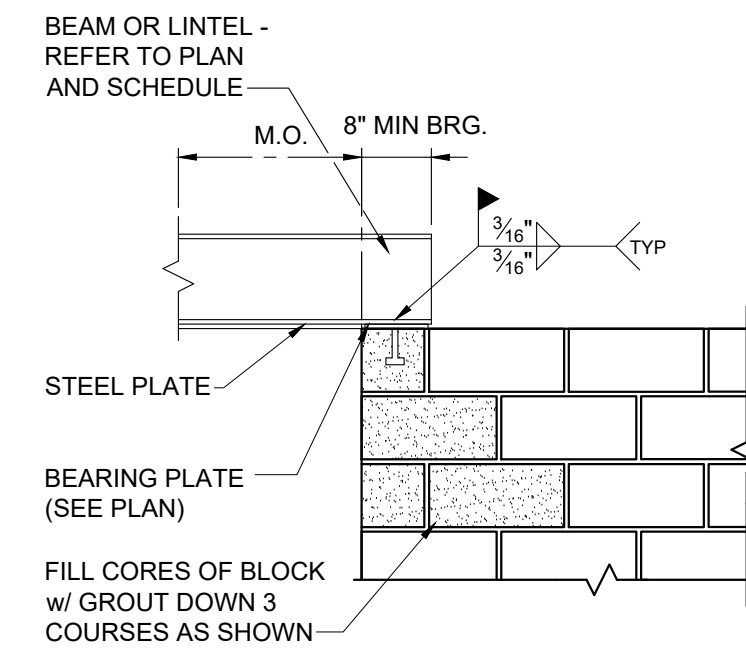
**5 STEEL LINTEL SECTION DETAIL**  
S-802 SCALE: 3/4" = 1'-0"



**6 CMU STEEL LINTEL (TYP.)**  
S-802 SCALE: 3/4" = 1'-0"



**7 JAMB DETAIL (TYP.)**  
S-802 SCALE: 3/4" = 1'-0"



**8 STEEL LINTEL BEARING (TYP.)**  
S-802 SCALE: 3/4" = 1'-0"



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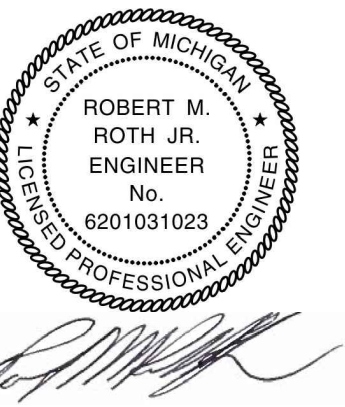
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Project:

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Animal Shelter  
Remodel & Expansion

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Drawn: WDJ/JC/NC  
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Sheet Title:  
**STRUCTURAL  
DETAILS**

Project Number: 22712.A

Sheet Number: **S-802**

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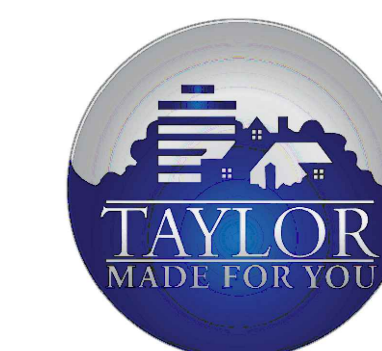


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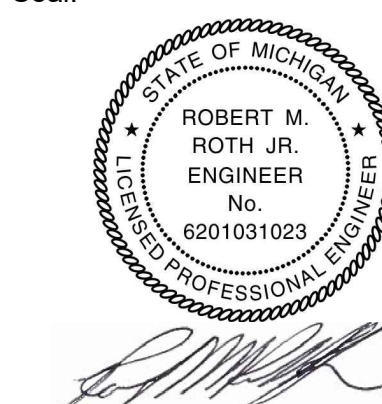
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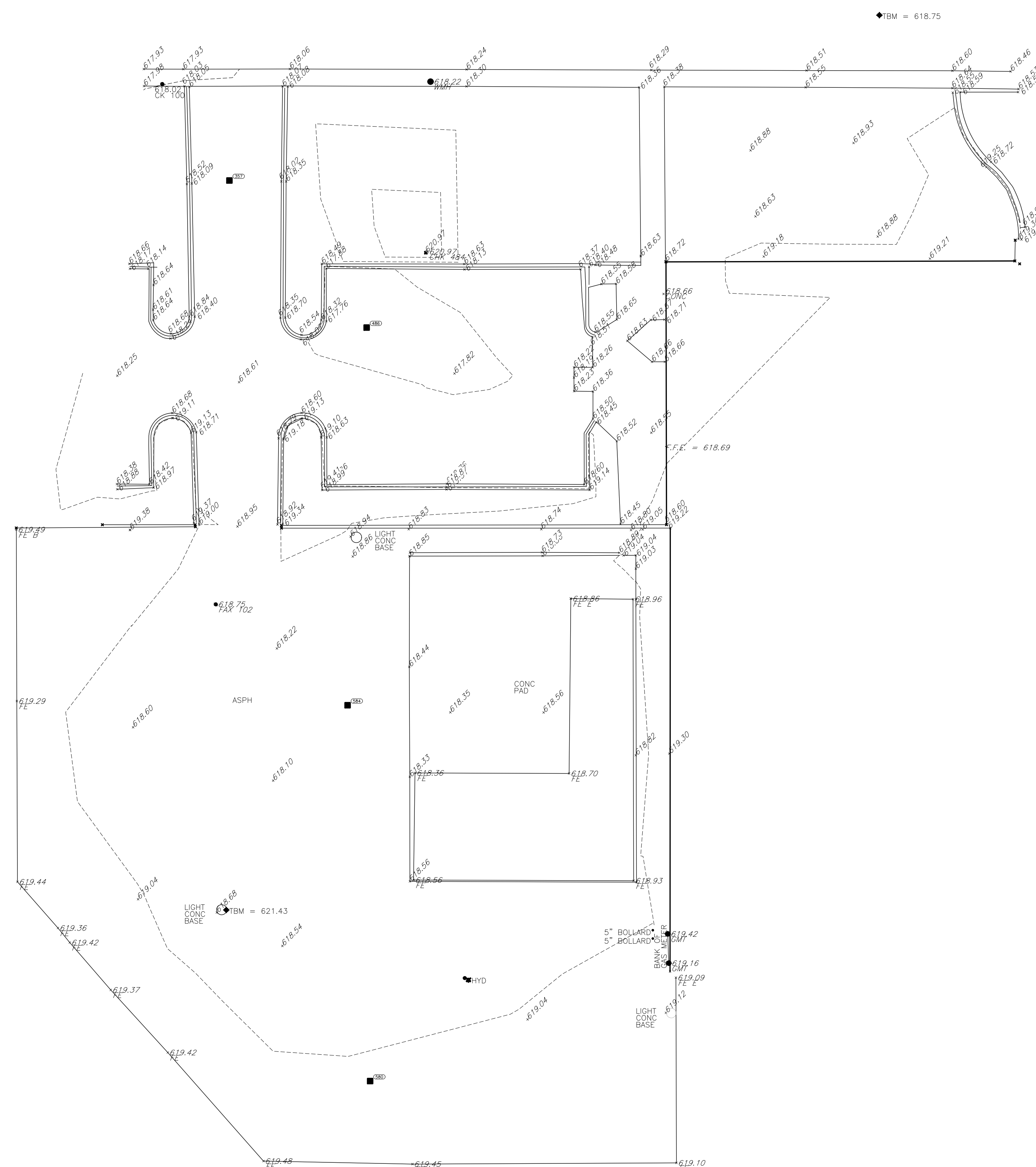
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Sheet Title:  
**TOPOGRAPHIC  
SURVEY**

Project Number: **22712.A**

Sheet Number: **C-100**

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**TOPOGRAPHIC SURVEY**  
SCALE: 1" = 20'-0"



**LEGEND:**

(X) →	KEY NOTE
---	ITEM TO BE REMOVED

- GENERAL NOTES:**
- A. REFER TO SHEET C-121 FOR DETAILED SITE DIMENSIONS AND ADDITIONAL INFORMATION.
  - B. REFER TO SHEET C-130 FOR GRADING PLAN.
  - C. REFER TO SHEET C-140 FOR SITE UTILITIES PLAN.
  - D. REFER TO SHEET L-100 FOR LANDSCAPE PLAN.
  - E. REFER TO ARCHITECTURAL AND MEP PLANS FOR FURTHER INFO.

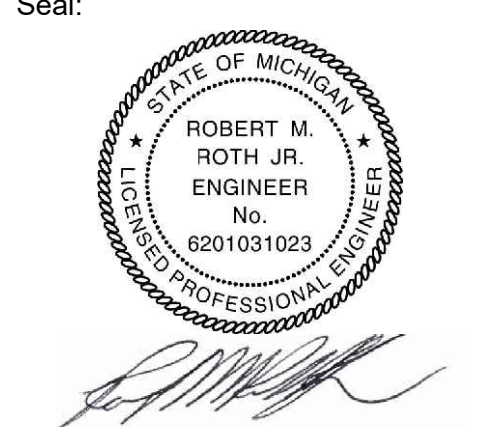
- DEMOLITION SITE PLAN NOTES:**
- 1 MAJORITY OF DEMOLITION WORK TO BE CONTAINED WITHIN GRAY SHADED AREA. REFER TO C-140 FOR UNDERGROUND UTILITY WORK.
  - 2 REMOVE LANDSCAPING LOCATED AT THIS NORTHEAST CORNER OF THE BUILDING.
  - 3 REMOVE EXISTING LETTERING ON MONUMENT SIGN.
  - 4 REMOVE FIRE HYDRANT
  - 5 STORM DRAIN TO REMAIN
  - 6 FIRE HYDRANT TO REMAIN
  - 7 LIGHT POLE TO REMAIN
  - 8 WATER SHUT-OFF VALVE TO REMAIN
  - 9 FDC TO BE REMOVED & RELOCATED
  - 10 REMOVE CANOPY SUPPORT COLUMNS. (4) LOCATIONS
  - 11 REMOVE MASONRY WALL & FOOTING
  - 12 MASONRY WALL TO REMAIN
  - 13 FENCE TO REMAIN
  - 14 REMOVE PAVING
  - 15 REMOVE CURB
  - 16 WALL MOUNTED METERS TO REMAIN. REFER TO MEP PLANS
  - 17 CURB REMOVAL TO STOP AT THIS APPROXIMATE LOCATION
  - 18 REMOVE EXISTING LIGHT POLE IN ITS ENTIRETY
  - 19 REMOVE EXISTING LIGHT POLE. CONCRETE BASE TO REMAIN
  - 20 EXISTING LAWN SPRINKLER CONTROL BOX TO BE PROTECTED DURING CONSTRUCTION. EXISTING SPRINKLER LINES SHALL BE LOCATED PRIOR TO CONSTRUCTION AND PROTECTED TO THE BEST OF THE GC'S ABILITY.



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 Approved: MR

Sheet Title:  
**DEMOLITION**  
**SITE PLAN**

Project Number: **22712.A**

Sheet Number: **C-110**

N  
 1  
 AD-100  
**DEMOLITION SITE PLAN**  
 SCALE: 1" = 20'-0"

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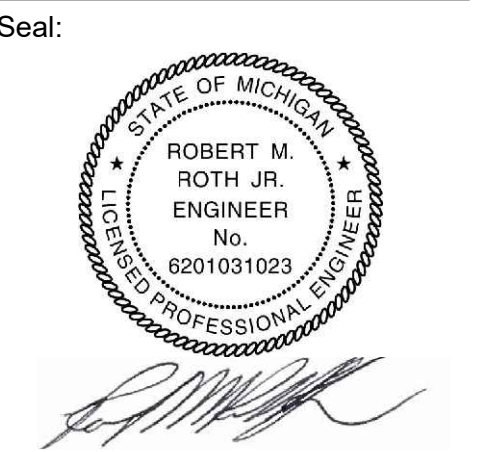
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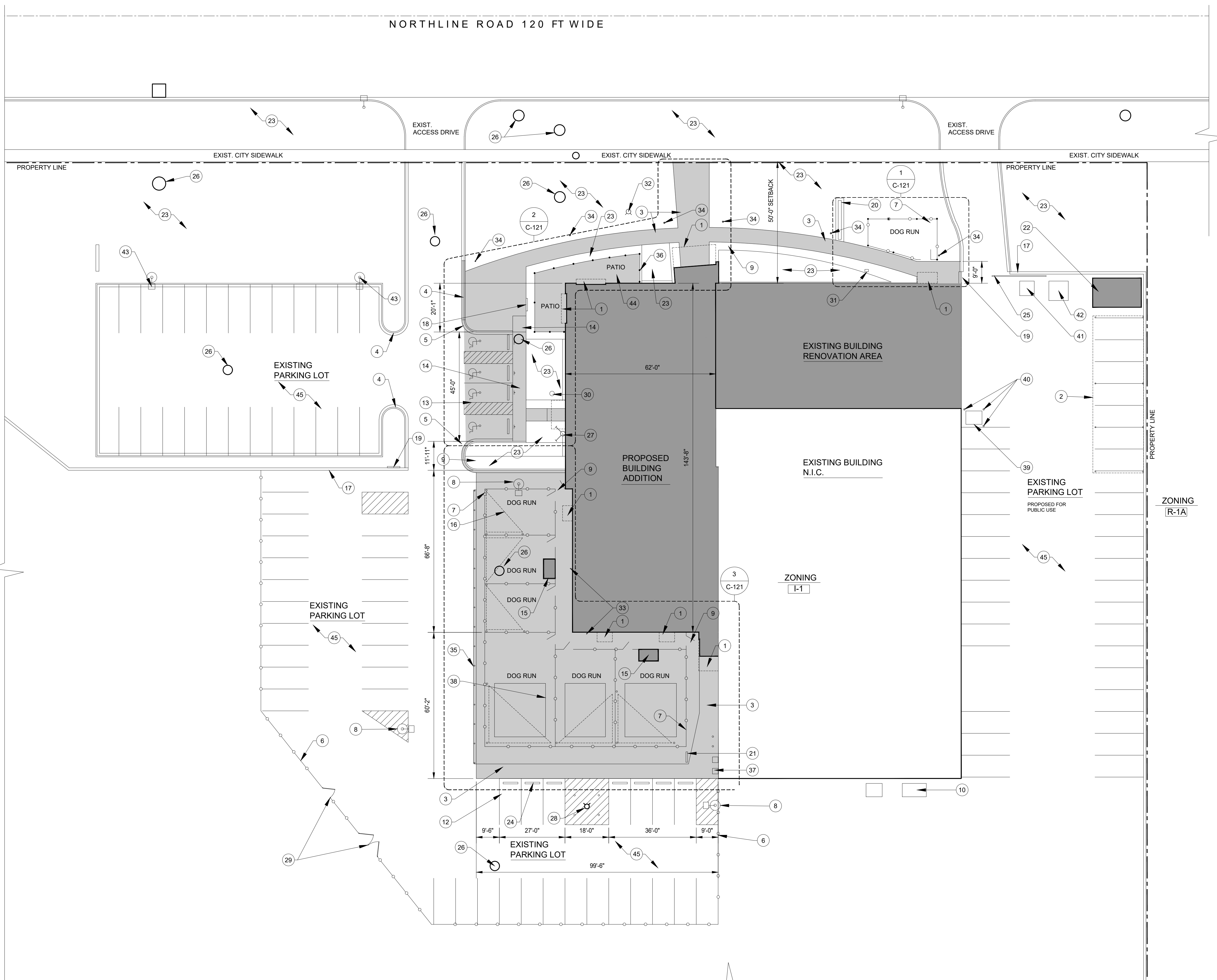
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Sheet Title:  
**PROPOSED**  
**SITE PLAN**

Project Number: **22712.A**

Sheet Number: **C-120**

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**LEGEND:**

- AREA OF RENOVATION, NEW BUILDING ADDITION, AND STORAGE SHEDS
- AREA OF NEW EXTERIOR PAVING AND CURBS. SEE DETAILS C-130

**GENERAL NOTES:**

- A. REFER TO SHEET C-121 FOR DETAILED SITE DIMENSIONS AND ADDITIONAL INFORMATION.
- B. REFER TO SHEET C-130 FOR GRADING PLAN.
- C. REFER TO SHEET C-140 FOR SITE UTILITIES PLAN.
- D. REFER TO SHEET L-100 FOR LANDSCAPE PLAN.
- E. REFER TO ARCHITECTURAL AND MEP PLANS FOR FURTHER INFO.

**SITE PLAN NOTES:**

- 1 NEW CANOPIES AT DOORS
- 2 NEW FIXED CARPORT AT 7 SPACES. SEE BID ALTERNATE CS-001
- 3 NEW WALK. SEE PAVING DETAIL C-130
- 4 EXISTING CURB
- 5 NEW CURB. SEE DETAIL C-130.
- 6 EXISTING FENCING
- 7 NEW 8'-0" VINYL COATED CHAIN-LINK FENCING (NO-CLIMB SIZE)
- 8 EXISTING LIGHT POLE
- 9 GATE TO BE EQUIPPED WITH ELECTRIC SECURITY ACCESS LATCH/LOCK.
- 10 EXISTING ELECTRICAL TRANSFORMER
- 11 EXISTING PARKING SPACES
- 12 NEW PARKING SPACES
- 13 4 NEW ADA PARKING SPACES
- 14 NEW ADA WALKWAY RAMP
- 15 NEW PLASTIC STORAGE BINSHED. GC TO PROVIDE \$800.00 ALLOWANCE PER UNIT.
- 16 NEW SHADE SAIL CANOPIES WITHIN EACH DOG RUN. CANOPY TO INCLUDE (3) 4" STEEL TUBE SUPPORT COLUMNS AT 12'-0" HEIGHT. SUPPORTS SHALL BE SECURED WITHIN A 12" DIA. CONCRETE POST FOOTING.
- 17 EXISTING WALL
- 18 NEW DIRECTIONAL SIGNAGE
- 19 NEW SIGNAGE ON WALL
- 20 NEW LETTERING ON EXISTING MONUMENT SIGN
- 21 NEW 'FIRING RANGE' SIGN
- 22 NEW WOOD STORAGE SHED. GC TO PROVIDE \$12,000.00 ALLOWANCE.
- 23 AREA OF LAWN AND LANDSCAPING. SEE LANDSCAPING PLAN L-100.
- 24 NEW CONCRETE PARKING BLOCKS AT 7 PARKING SPACES.
- 25 EXISTING GATE TO REMAIN
- 26 EXISTING CATCH BASIN
- 27 NEW FIRE DEPARTMENT CONNECTION
- 28 EXISTING FIRE HYDRANT WITH (4) NEW STEEL BOLLARDS.
- 29 EXISTING FENCE GATE
- 30 NEW WATER SHUT OFF VALVE
- 31 EXISTING PHONE LINE PEDESTAL
- 32 NEW FIRE HYDRANT
- 33 NEW HOSE BIB
- 34 NEW LIGHT BOLLARD
- 35 NEW STEEL BUMPER GUARDRAIL AT 30" HT. WITH STEEL SUPPORT POSTS AT 8'-0" O.C.
- 36 NEW 4'-0" HIGH ALUMINUM FENCING. FENCING TO HAVE 'WROUGHT IRON' LOOK.
- 37 EXISTING GAS METERS
- 38 AREA OF ARTIFICIAL TURF WITHIN 3 OF THE DOG RUNS
- 39 NEW TRANSFORMER. SEE ELECTRICAL DWGS.
- 40 NEW STEEL BOLLARD
- 41 EXISTING DUMPSTER
- 42 EXISTING STORAGE SHED
- 43 NEW LIGHT POLE. SEE ELECTRICAL PLANS.
- 44 NEW CONCRETE PAVED PATIO WITHIN FENCE.
- 45 PARKING SPACES TO BE RE-STRIPPED THROUGHOUT.

**PROPOSED SITE PLAN**  
SCALE: 1" = 20'-0"



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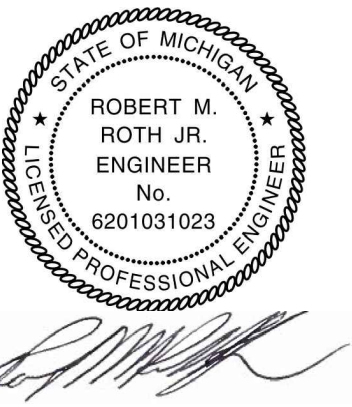
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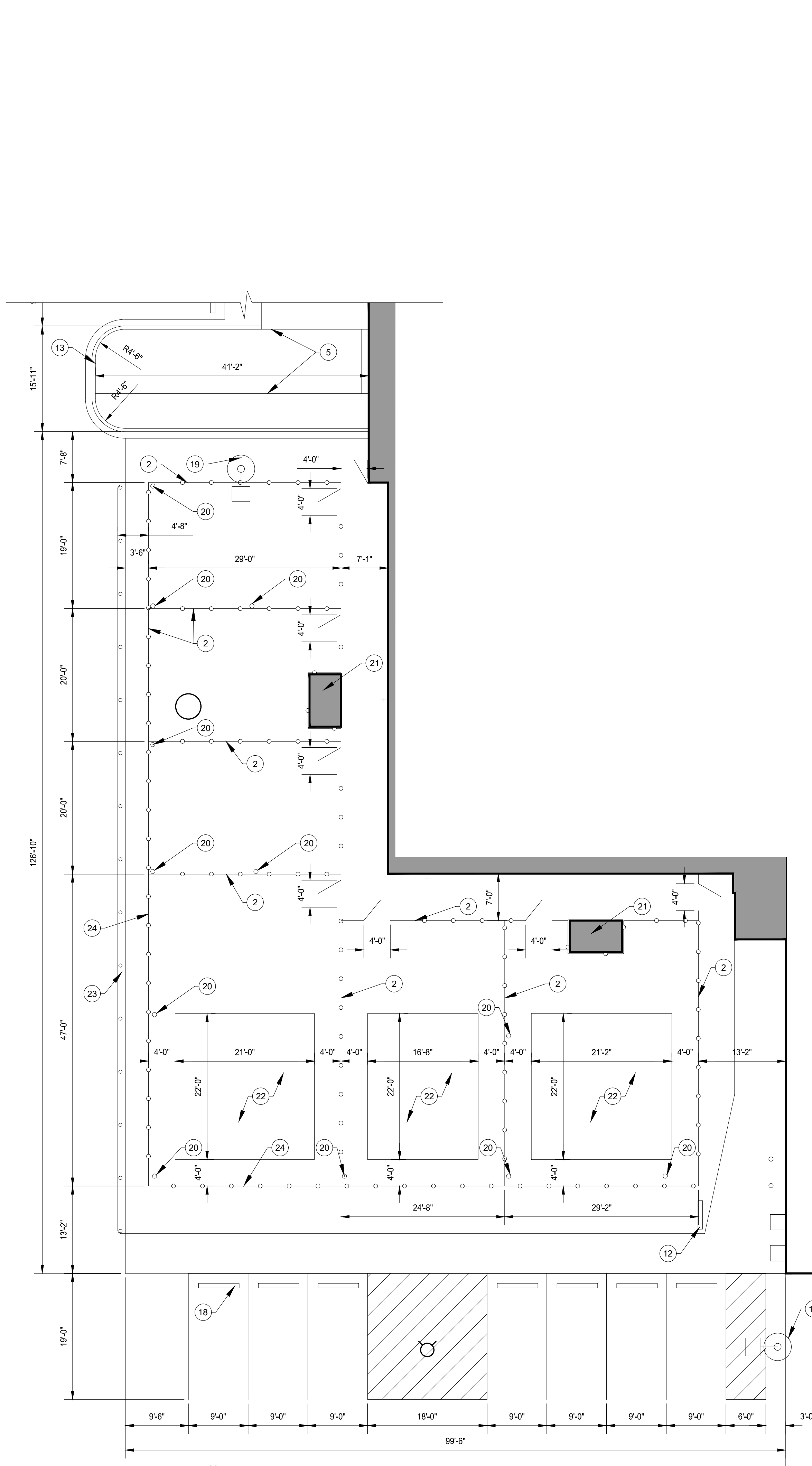
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**ENLARGED  
SITE PLAN**

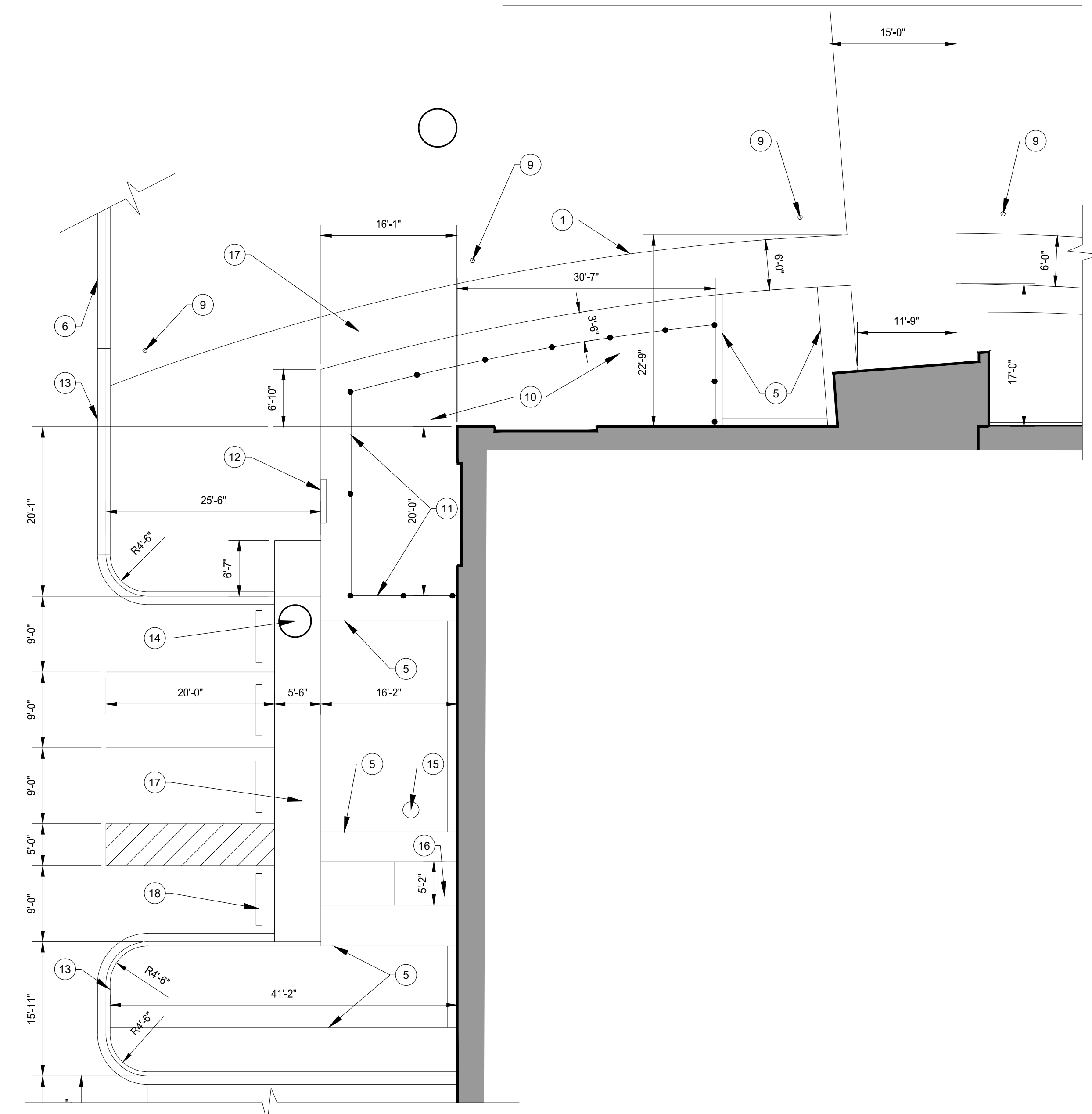
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Sheet Number: **C-121**

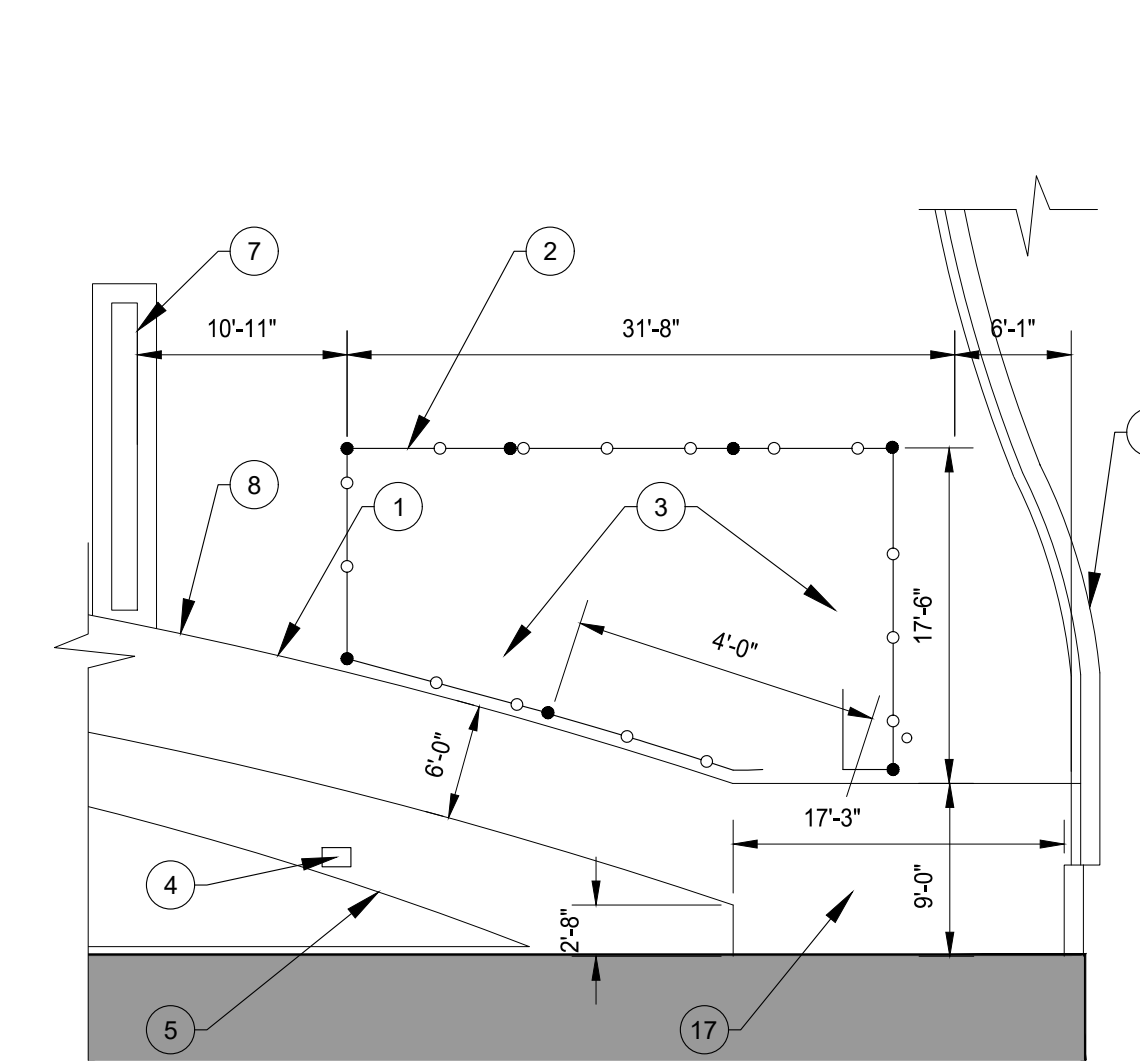
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**3 ENLARGED SITE PLAN**  
SCALE: 1" = 10'-0"



**2 ENLARGED DIMENSIONAL SITE PLAN**  
SCALE: 1" = 10'-0"



**1 ENLARGED SITE PLAN**  
SCALE: 1" = 10'-0"

- GENERAL NOTES:**
- A. REFER TO SHEET C-120 FOR SITE PLAN KEYNOTES.
  - B. REFER TO SHEET C-130 FOR GRADING PLAN.
  - C. REFER TO SHEET C-140 FOR SITE UTILITIES PLAN.
  - D. REFER TO SHEET L-100 FOR LANDSCAPE PLAN.
  - E. CONTRACTOR SHALL HAVE ARCHITECT APPROVE WALKWAY LAYOUT STAKES PRIOR TO COMMENCEMENT OF WORK.

- ENLARGED SITE PLAN NOTES:**
- 1 CREATE SMOOTH ARC SHAPED WALKWAY BASED ON THE START AND END POINTS AS DIMENSIONED ON THIS DRAWING.
  - 2 CHAIN-LINK FENCING WITH ACCESS GATE AS SHOWN.
  - 3 NATURAL LAWN/GRASS WITHIN THIS FENCED AREA.
  - 4 EXISTING PHONE COMPANY PEDESTAL.
  - 5 LANDSCAPE BED EDGING. SEE LANDSCAPE PLAN L-100.
  - 6 EXISTING CURB.
  - 7 EXISTING MASONRY MONUMENT SIGN BASE.
  - 8 EDGE OF NEW WALKWAY SHALL CLEAR/MISS THE EXISTING SIGN BASE. SEE NOTE E THIS SHEET.
  - 9 NEW LIGHT BOLLARD. REFER TO ELECTRICAL PLANS.
  - 10 CONCRETE PAVED PATIO AREA.
  - 11 ALUMINUM FENCING.
  - 12 EXTERIOR DIRECTIONAL SIGN.
  - 13 NEW CURB.
  - 14 EXISTING CATCH BASIN (STORM DRAIN)
  - 15 WATER SHUT-OFF VALVE LOCATION.
  - 16 CONCRETE WALK CENTERED ON DOOR.
  - 17 CONCRETE WALK
  - 18 CONCRETE PARKING BLOCKS
  - 19 EXISTING LIGHT POLE AND CONCRETE BASE.
  - 20 STEEL SUPPORT COLUMN FOR OVERHEAD 'SAIL' CANOPY.
  - 21 FREE-STANDING STORAGE BIN/SHED. FENCE TO BE INSTALLED AROUND SHED (FENCING CONTRACTOR SHALL COORDINATE).
  - 22 AREA OF ARTIFICIAL TURF. TURF TO BE INSTALLED ON COMPACTED BASE PER MFR. SPECIFICATIONS.
  - 23 STEEL VEHICLE BUMPER RAIL.
  - 24 THE EAST & SOUTH FACING LENGTHS OF KENNEL FENCING SHALL BE INFILLED W/ PRIVACY SLATS TO FULL FENCE HEIGHT.





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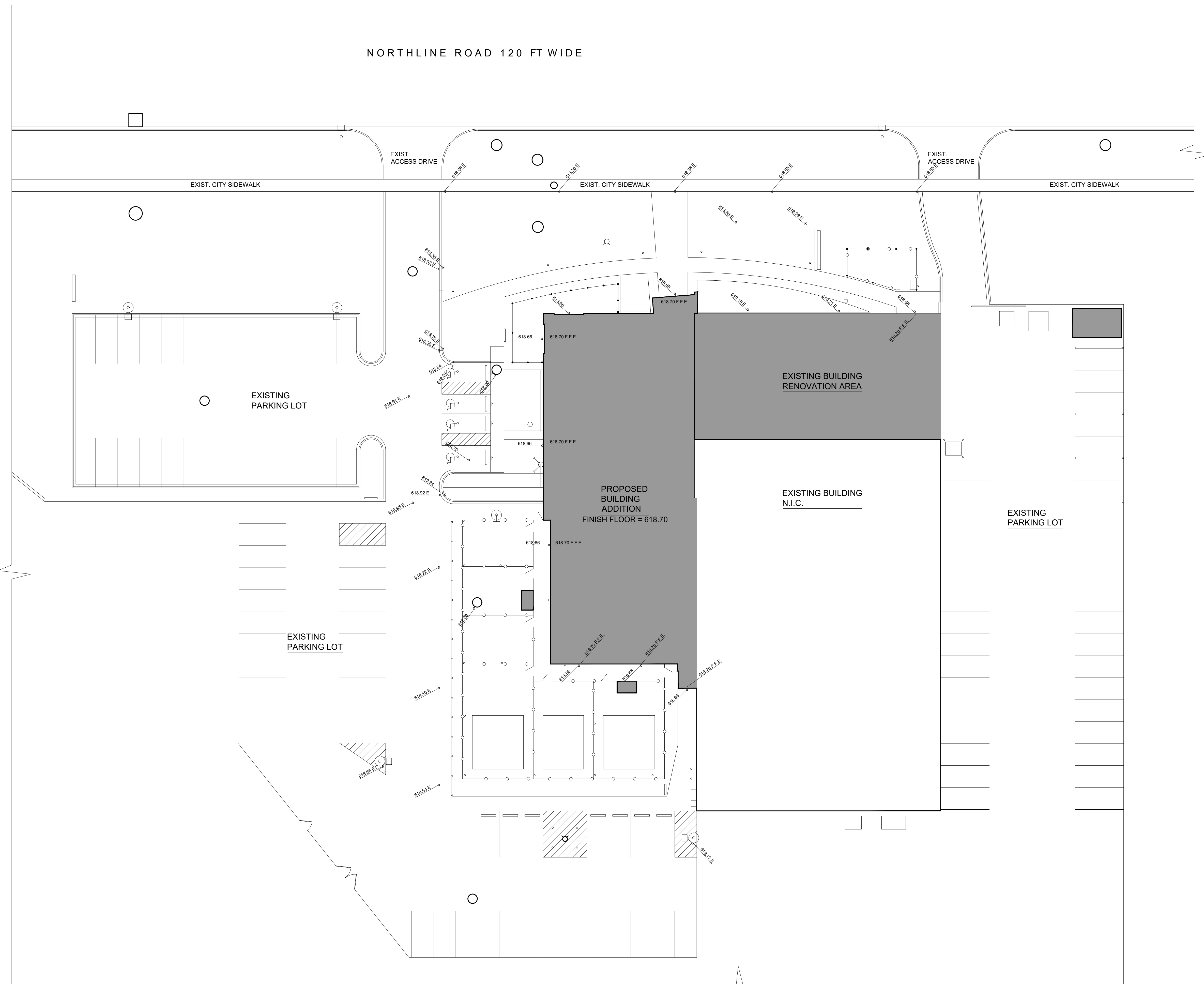
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Sheet Title:  
**PROPOSED  
GRADING  
SITE PLAN**

Project Number: 22712.A

Sheet Number: **C-130**

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N  
 1  
 C-130  
**PROPOSED GRADING SITE PLAN**  
 SCALE: 1" = 20'-0"



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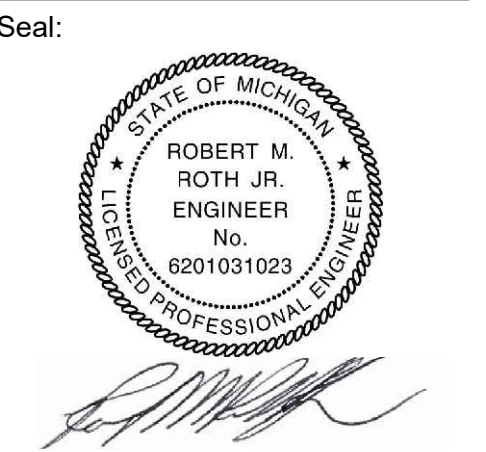
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Sheet Title:  
**PROPOSED  
UTILITIES  
SITE PLAN**

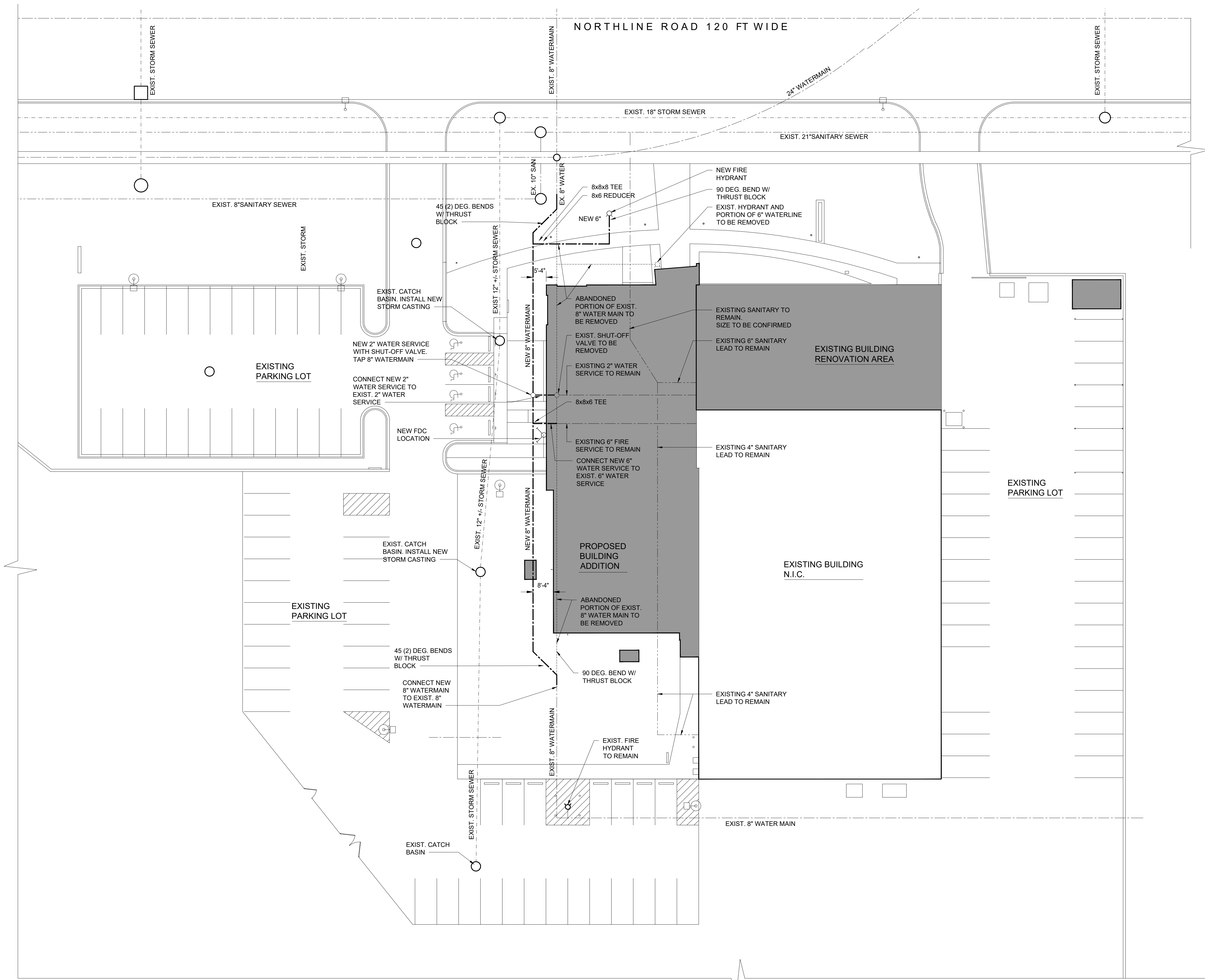
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**WATER MAIN GENERAL NOTES:**

- A. GENERAL CONTRACTOR SHALL COORDINATE WATER MAIN CONSTRUCTION ACTIVITIES WITH THE CITY OF TAYLOR TO AVOID CONFLICTS WITH THE ANIMAL SHELTER AND OTHER OPERATIONS. OFF PEAK WORK HOURS MAY BE REQUIRED BY THE CITY OF TAYLOR.
- B. GENERAL CONTRACTOR SHALL ENSURE THAT WATER MAIN WORK IS SCHEDULED AND COMPLETED IN A TIMELY MANNER TO ALLOW ANIMAL SHELTER TO PREDICTABLY PERFORM NORMAL BUSINESS OPERATIONS.
- C. GENERAL CONTRACTOR IS RESPONSIBLE TO CONDUCT ALL REQUIRED WATER MAIN TESTING SUCH AS PRESSURE TEST, BRC-T SAMPLING, AND SWAB.
- D. GENERAL CONTRACTOR SHALL SCOPE/CAMERA ALL STORM WATER AND SANITARY PIPING WITHIN SCOPE OF PROJECT AND REPORT FINDINGS TO CITY OF TAYLOR AND ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION.



**PROPOSED UTILITIES SITE PLAN**  
SCALE: 1" = 20'-0"



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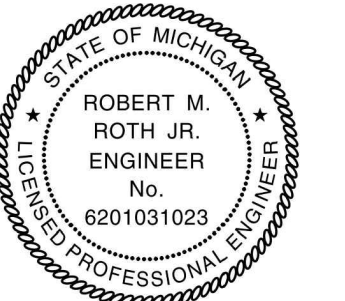


Client:  
**City of Taylor**  
23555 Goddard Rd.  
Taylor, MI 48180

Project:  
**City of Taylor**  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180

Seal:



*[Signature]*

Date	Issued For
09-13-2023	25% Complete Review
10-18-2023	50% Complete Review
12-21-2023	Owner Review
01-17-2024	Permit Review

Drawn: **WD/JC/NC**  
Checked: **WD**  
Approved: **MR**

Sheet Title:  
**GENERAL NOTES & DETAILS**

Project Number: **22712.A**

Sheet Number: **C-150**

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### GENERAL PAVING NOTES

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

CONCRETE: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

ASPHALT: BASE COURSE – MDOT BITUMINOUS MIXTURE HMA 4E ML SURFACE COURSE – MDOT BITUMINOUS MIXTURE HMA 5E ML BOND COAT – MDOT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-5164.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKewise ARRANGE FOR ALL INSPECTION.

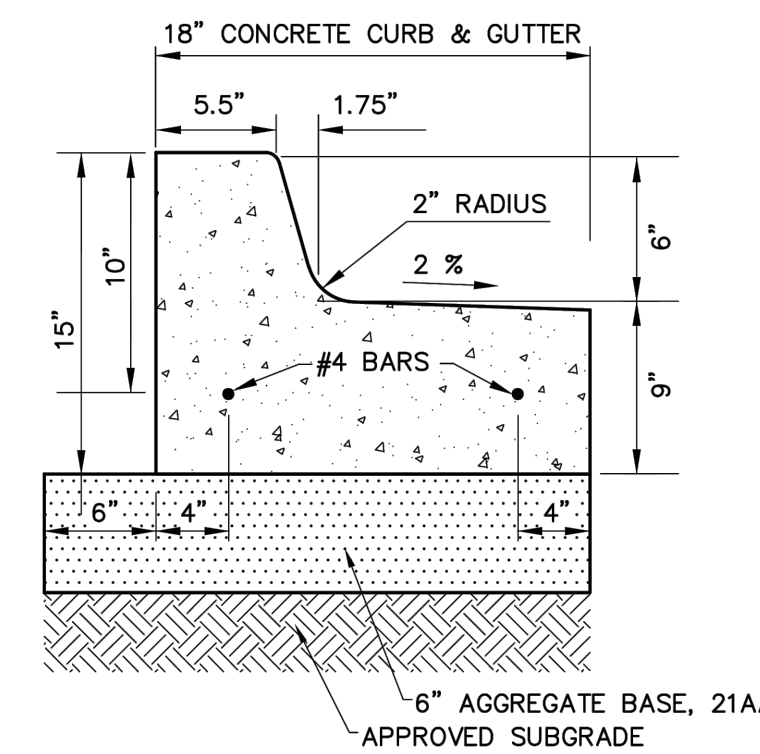
EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.

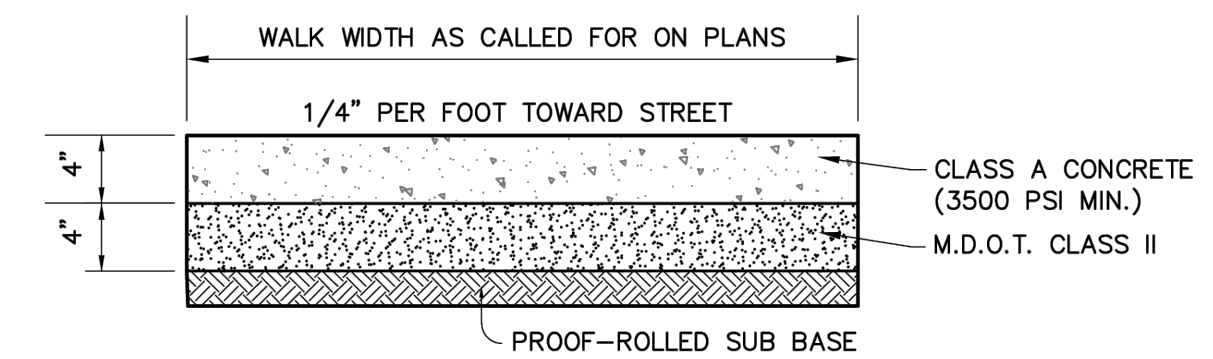
SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

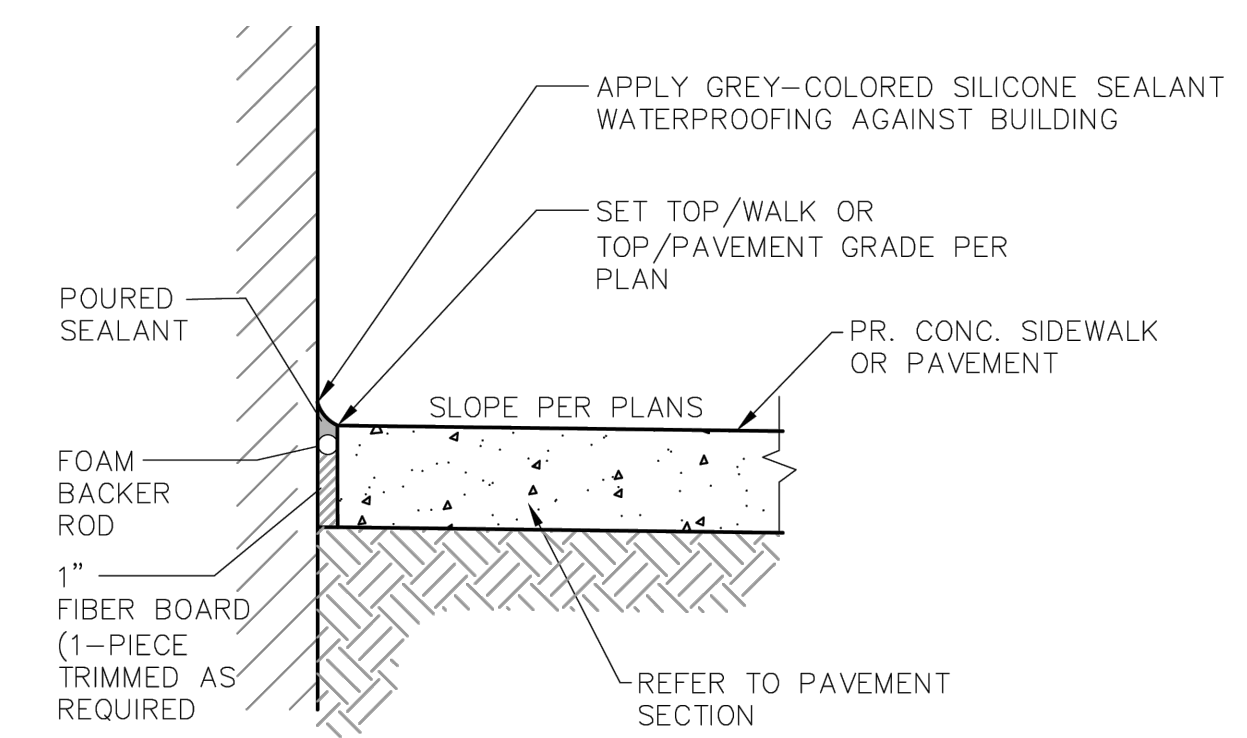
FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.



**CONCRETE CURB DETAIL 'B'**  
N.T.S.



**CONCRETE SIDEWALK SECTION**  
N.T.S.



**EXPANSION JOINT DETAIL AT BUILDING**  
N.T.S.

### UTILITIES

AT LEAST 72 HOURS (3 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY MISS DIO AND THE LOCAL COMMUNITY (WHERE APPLICABLE) TO STAKE LOCATIONS OF EXISTING UTILITIES.

THE CONTRACTOR SHALL EXPOSE AND VERIFY EXISTING UTILITIES FOR LOCATION, SIZE, DEPTH, MATERIAL AND CONFIGURATION PRIOR TO CONSTRUCTION. COSTS FOR EXPLORATORY EXCAVATION IS AN INCIDENTAL COST AND SHALL NOT BE CONSIDERED AN EXTRA TO THE CONTRACT.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY EXISTING UTILITIES WHICH DO NOT MATCH THE PLANS AND SPECIFICATIONS PRIOR TO COMMENCING WORK. ANY FIELD CHANGES OF THE PROPOSED UTILITIES SHALL BE APPROVED BY THE CITY ENGINEER BEFORE THE WORK IS DONE.

THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE. ANY SERVICE OR UTILITY DAMAGED OR REMOVED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR, IN CONFORMANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY PROVIDER.

### DAMAGE TO PRIVATE PROPERTY

ALL SIDEWALKS, DRIVEWAYS, LAWNS, FENCING, TREES, SHRUBS, SPRINKLERS, LANDSCAPING, ETC., THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED, IN KIND OR BETTER, BY THE CONTRACTOR. ALL STREET SIGNS, MAIL BOXES, ETC., REMOVED SHALL BE REPLACED IN KIND OR BETTER, BY THE CONTRACTOR. ALL THE REPAIRS OR REPLACEMENTS DUE TO THE CONTRACTOR'S WORK ARE TO BE INCLUDED IN THE CONTRACT PRICE(S) AND SHALL NOT BE AN EXTRA TO THE CONTRACT.

THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON ANY ADJOINING PROPERTIES, UNLESS OFFSITE PERMITS HAVE ALREADY BEEN OBTAINED BY THE OWNER AND ARE PART OF THE CONTRACT DOCUMENTS.

### DEWATERING OF TRENCH AND EXCAVATIONS

IF NOT SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION DESIGN DOCUMENTS, THE DESIGN OR QUALITATIVE ANALYSIS OF GROUND WATER DEWATERING SYSTEMS IS BEYOND THE SCOPE OF DESIGN FOR THESE DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND PROVIDING APPROPRIATE EXCAVATION DEWATERING SYSTEMS FOR USE DURING CONSTRUCTION.

THE DEWATERING METHOD SELECTED BY THE CONTRACTOR WILL NOT ADVERSELY AFFECT ADJACENT PAVEMENTS OR STRUCTURES PRIOR TO BEGINNING DEWATERING CONDITIONS. MEANS AND METHODS OF DEWATERING ARE SOLELY THE RESPONSIBILITY OF THE OWNER AND ENGINEER. THE COST OF DEWATERING WILL BE CONSIDERED INCLUDED IN THE WORK OF CONSTRUCTING THE UNDERGROUND UTILITIES UNLESS SPECIFICALLY INDICATED OTHERWISE.

### BY-PASS PUMPING

FROM TIME TO TIME IT MAY BE NECESSARY FOR THE CONTRACTOR TO BY-PASS PUMP TO COMPLETE THE WORK AS INDICATED ON THE PLANS. THE COST OF BY-PASS PUMPING, THE METHODS, EQUIPMENT AND MEANS OF PROVIDING THAT WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED PART OF THE WORK WHETHER SPECIFICALLY CALLED OUT ON THE PLANS OR NOT.

### MEANS AND METHODS FOR PIPE CONSTRUCTION

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEANS AND METHODS FOR CONSTRUCTING THE UNDERGROUND PIPE SYSTEMS PROPOSED ON THE PLANS, INCLUDING BUT NOT LIMITED TO THE NEED FOR SHORING/BRACING OF TRENCHES, DEWATERING OF TRENCHES, SCHEDULING THE WORK AT OFF PEAK HOURS, AND/OR MAINTAINING EXISTING FLOWS THAT MAY BE ENCOUNTERED VIA PUMPING, BY-PASS PIPING OR OTHER MEANS. THE CONTRACTOR SHALL NOT BE PAID ANY ADDITIONAL COMPENSATION TO IMPLEMENT ANY MEANS AND METHODS TO SATISFACTORILY COMPLETE THE CONSTRUCTION.

### PAVEMENT REMOVAL

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE THICKNESS OF THE PAVEMENT REMOVAL. PAVEMENT CORE SAMPLES ARE FOR INFORMATIONAL PURPOSES ONLY AS TO THE THICKNESS OF THE PAVEMENT AT THE LOCATION OF THE SAMPLES. THE OWNER AND ENGINEER MAKE NO REPRESENTATION, WARRANTY OR GUARANTY THAT THE SAMPLES ACCURATELY REFLECT THE PAVEMENT THICKNESS ON THE PROJECT.

### MAINTENANCE OF TRAFFIC

DURING THE PROGRESS OF THE WORK THE CONTRACTOR SHALL ACCOMMODATE BOTH VEHICULAR AND PEDESTRIAN TRAFFIC IN THE ROAD RIGHTS OF WAY. THE CONTRACTOR'S EQUIPMENT AND OPERATIONS ON PUBLIC STREETS SHALL BE GOVERNED BY ALL APPLICABLE LOCAL, COUNTY AND STATE ORDINANCES, REGULATIONS AND LAWS. THE CONTRACTOR SHALL OBTAIN AND SATISFY ANY AND ALL PERMIT REQUIREMENTS BY THE LOCAL, COUNTY AND STATE GOVERNMENTAL AGENCIES.

IN ADDITION, WHERE THE WORK REQUIRES THE CLOSURE OF ONE OR MORE LANES OR IS WITHIN THE INFLUENCE OF THE ROAD OR PEDESTRIAN RIGHT OF WAY, THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, FLAG PERSONS AND OTHER TRAFFIC CONTROL MEASURES AS REQUIRED BY MDOT, THE COUNTY, OR THE COMMUNITY HAVING JURISDICTION OF THE ROAD AND IN CONFORMANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

COMPENSATION FOR TRAFFIC CONTROL SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE(S) UNLESS SPECIFIC TRAFFIC CONTROL ITEMS ARE INCLUDED IN THE ACCEPTED BID PROPOSAL.

### IRRIGATION

THE CONTRACTOR SHALL MAINTAIN OR REPAIR ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA UNLESS DRAWINGS CALL FOR THE IRRIGATION SYSTEM TO BE REMOVED. THE OWNER AND NFE MAKE NO REPRESENTATIONS, WARRANTY OR GUARANTY AS TO THE LOCATION OF THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT THE IRRIGATION SYSTEM DURING CONSTRUCTION ACTIVITIES. COMPENSATION FOR MAINTAINING OR REPAIRING EXISTING IRRIGATION SYSTEMS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE(S) UNLESS SPECIFIC IRRIGATION SYSTEM REPAIR ITEMS ARE INCLUDED IN THE ACCEPTED BID PROPOSAL.

### SUB-SOIL CONDITIONS

ANY SOIL BORING PROVIDED BY THE OWNER AND/OR ENGINEER IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THIS INFORMATION IS NOT OFFERED AS EVIDENCE OF GROUND CONDITIONS THROUGHOUT THE PROJECT AND ONLY REFLECT THE GROUND CONDITIONS AT THE LOCATION OF THE BORING ON THE DATE THEY WERE TAKEN.

THE ACCURACY AND RELIABILITY OF THE SOIL LOGS AND REPORT ARE NOT WARRANTED OR GUARANTEED IN ANY WAY BY THE OWNER OR ENGINEER AS TO THE SUB-SOIL CONDITIONS FOUND ON THE SITE. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION AND SUB-SOIL INVESTIGATION AND SECURE OTHER SUCH INFORMATION AS THE CONTRACTOR CONSIDERS NECESSARY TO DO THE WORK PROPOSED AND IN PREPARATION OF THEIR BID.

### SUBGRADE UNDERCUTTING AND PREPARTION

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY AND ALL SOILS WHICH DO NOT CONFORM TO THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A SUBGRADE IN CONFORMANCE WITH THE PROJECT PLANS AND/OR SPECIFICATIONS. THE MEANS AND METHODS USED TO ACHIEVE THE REQUIRED RESULT SHALL REST SOLELY WITH THE CONTRACTOR.

ANY AREAS OF UNDERCUTTING THAT RESULT IN ADDITIONAL OR EXTRA WORK BECAUSE THEY COULD NOT BE IDENTIFIED BY THE CONTRACTOR'S PRE-BID SITE OBSERVATION OR ARE NOT SET FORTH IN THE PLANS AND SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE ANY EXTRA WORK IS PERFORMED. THE CONTRACTOR SHALL MAKE A REQUEST FOR ANY ADDITIONAL COMPENSATION FOR THE UNDERCUTTING IN WRITING AND THE REQUEST SHALL CONFORM TO THE CONTRACT'S CHANGE ORDER PROVISIONS.

### STRUCTURE BACKFILL

STRUCTURAL BACKFILL SHALL BE PLACED IN CONFORMANCE WITH THE PROJECT PLANS, SPECIFICATIONS OR AS REQUIRED BY THE COMMUNITY, GOVERNMENT AGENCY OR UTILITY THAT HAS JURISDICTION OVER THE WORK.

### TRENCH BACKFILL

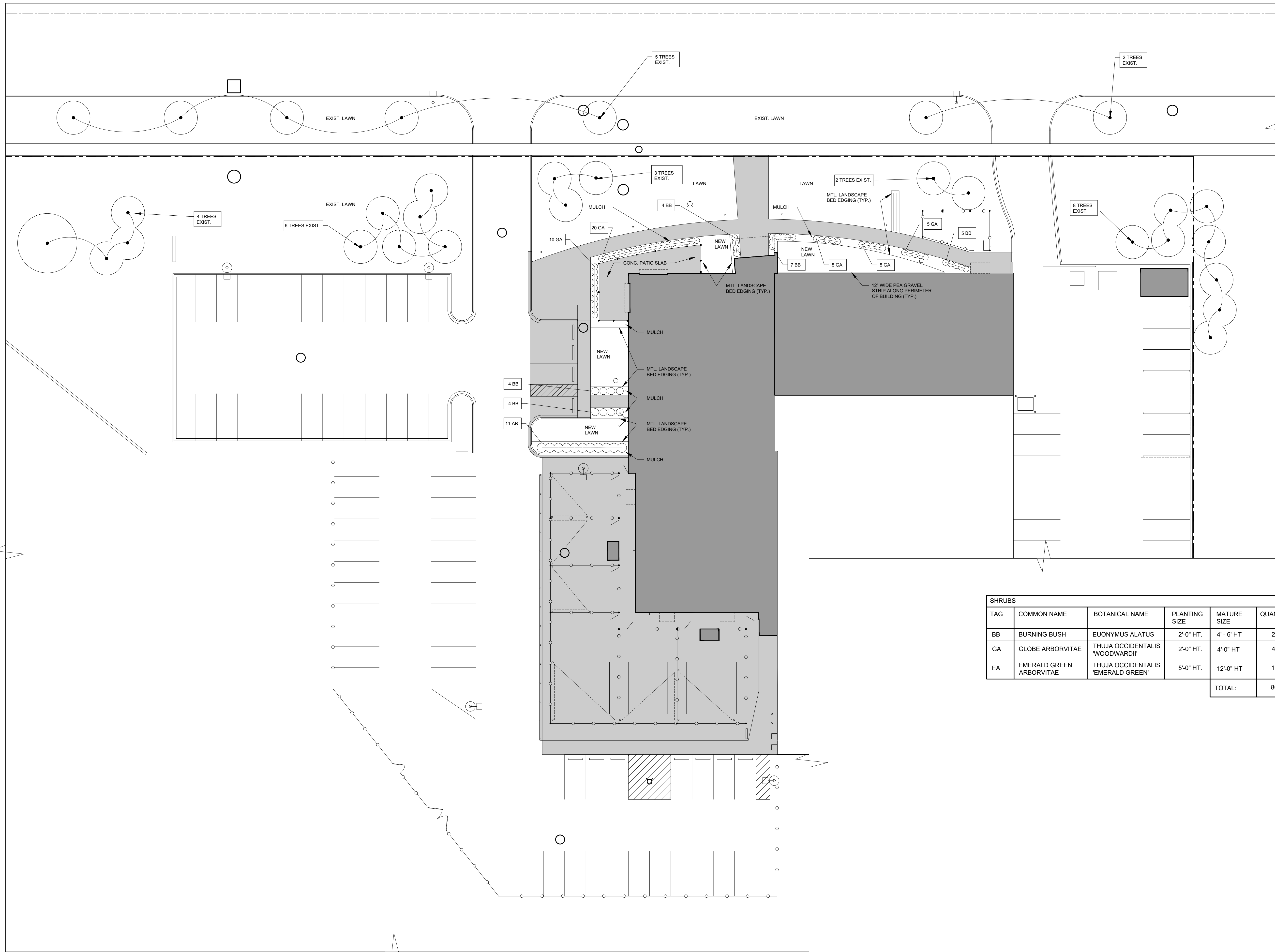
TRENCH BACKFILL SHALL BE PLACED IN CONFORMANCE WITH THE PLANS AND/OR SPECIFICATIONS. TRENCH BACKFILL SHALL ALSO BE INSTALLED IN CONFORMANCE WITH THE COMMUNITY REQUIREMENTS OR AGENCY/UTILITY GOVERNING SAID TRENCH CONSTRUCTION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.

### EARTH BALANCE / GRADING

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHETHER THE SITE EARTHWORK BALANCES OR NOT. ANY EXCESS CUT MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR, IN A LIKE MANNER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT APPROVED FILL MATERIAL AND PLACE IT AS REQUIRED TO ATTAIN THE SITE GRADE AND COMPACTION REQUIREMENTS PER THE ENGINEER'S PLAN AND ALL APPLICABLE GOVERNMENTAL STANDARDS. THE ENGINEER AND OWNER MAKE NO REPRESENTATION AS TO THE QUANTITIES THAT MAY BE NEEDED TO CREATE A BALANCED EARTHWORK CONDITION OR THAT THE SITE EARTHWORK IS BALANCED.

### SOIL EROSION / SEDIMENTATION CONTROL

THE CONTRACTOR SHALL OBTAIN THE REQUIRED SOIL EROSION PERMIT AND SATISFY ALL REGULATORY REQUIREMENTS FOR CONTROLLING SOIL EROSION AND SEDIMENT TRANSPORT. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR INSPECTION OR APPROVAL OF THE CONTRACTOR'S WORK IN CONNECTION WITH SATISFYING THE SOIL EROSION PERMIT REQUIREMENTS UNLESS SPECIFICALLY STATED IN THE CONTRACT DOCUMENTS.



**GENERAL LANDSCAPE NOTES:**

- A. ALL LANDSCAPE AREA, ESPECIALLY PARKING LOT ISLANDS AND SHRUB BEDS NEXT TO BUILDING, SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND POOR SOIL TO A DEPTH OF 12"-18" AND BACK FILLED W/ A GOOD MEDIUM TEXTURED SOIL (LOAM OR LIGHT YELLOW CLAY). ALL LANDSCAPE AREAS TO HAVE 4"-6" OF TOP SOIL AND ARE TO BE A MINIMUM OF 6" HIGHER THAN ADJACENT CURBS OR WALKS AFTER SETTLING.
- B. PLANT TREES AND SHRUBS GENERALLY NO CLOSER THAN THE FOLLOWING DISTANCES APART OR WORK WITH ARCHITECT TO HAVE SPACING REFLECT THE DESIGN INTENT AS SHOWN ON THE PLAN:
  - SHADE TREES: 20' O.C. MIN.
  - SHRUBS: SPACED TO CREATE SCREEN/BUFFER. SEE PLAN.
  - ORNAMENTAL & EVERGREEN TREES (CRAB, PINE, SPRUCE) 10' O.C. MIN.
- C. DIG SHRUB PITS 1'-0" LARGER THAN THE SHRUB ROOT BALLS. TREE PITS 2'-0" LARGER THAN THE ROOT BALLS. BACK FILL W/ 1 PART TOPSOIL - 1 PART SOIL FROM EXCAVATED PLANT HOLES.
- D. REMOVE ALL TWINE, WIRE, AND BURLAP FROM TOP OF ALL SHRUB EARTH BALLS AND TREE TRUNKS
- E. LAWN TREES TO BE MULCHED W/ 2'-0" WIDE BY 6" MINIMUM SHREDDED BARK RING OR APPROVED ALTERNATE DESIGN FOR TREE TRUNK PROTECTION.
- F. ALL LANDSCAPE BEDS TO BE MULCHED WITH 4" OF SHREDDED WOOD MULCH AND BORDERED WITH METAL LANDSCAPE EDGING.
- G. INSTALLATION OF PLANT MATERIAL SHALL BE IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS AND WITH THE GENERAL PLANTING SPECIFICATIONS AS SET FORTH BY THE CITY OF FERRDALE DEPARTMENT OF PUBLIC SERVICES.
- H. ALL TREES TO BE STAKED, WRAPPED, AND MULCHED ACCORDING TO CITY STANDARDS.
- I. ALL ERICACIOUS PLANT MATERIAL AND OTHER ACID LOVING PLANTS SHALL BE PLANTED IN PLANTING MIX OF 1 PART TOPSOIL - 1 PART PEAT.
- J. ALL LAWN AREAS TO BE FINE GRADED AND TOP DRESSED WITH 3" OF TOP SOIL BEFORE SODDING.
- K. ALL QUANTITIES ON PLANS HAVE BEEN FIGURED AS CLOSELY AS POSSIBLE. IT REMAINS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO COMPLETE THE PROJECT AS INDICATED ON THE DRAWINGS.
- L. ALL GROUND COVER BEDS SHALL RECEIVE 3" OF PLANT MIX (1/3 TOPSOIL, 1/3 SAND, 1/3 PEAT) ROTOTILLED INTO THE UPPER 6" OF SOIL, MULCH WITH 2" OF MICHIGAN PEAT MULCH.
- M. PLUMBING PERMIT IS REQUIRED FOR THE INSTALLATION OF BACKFLOW PREVENTION FOR AUTOMATIC SPRINKLER SYSTEMS.
- N. PLANTS SHALL BE WATERED/IRRIGATED AS NECESSARY TO PROMOTE PROPER AND HEALTHY PLANT GROWTH. GC IS RESPONSIBLE TO DO SO UNTIL THE PROJECT IS COMPLETED AND OFFICIALLY TURNED OVER TO THE OWNER.

SHRUBS					
TAG	COMMON NAME	BOTANICAL NAME	PLANTING SIZE	MATURE SIZE	QUANTITY
BB	BURNING BUSH	EUONYMUS ALATUS	2'-0" HT.	4' - 6' HT	24
GA	GLOBE ARBORVITAE	THUJA OCCIDENTALIS 'WOODWARDII'	2'-0" HT.	4'-0" HT	45
EA	EMERALD GREEN ARBORVITAE	THUJA OCCIDENTALIS 'EMERALD GREEN'	5'-0" HT.	12'-0" HT	11
TOTAL:					80

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**LANDSCAPE PLAN**

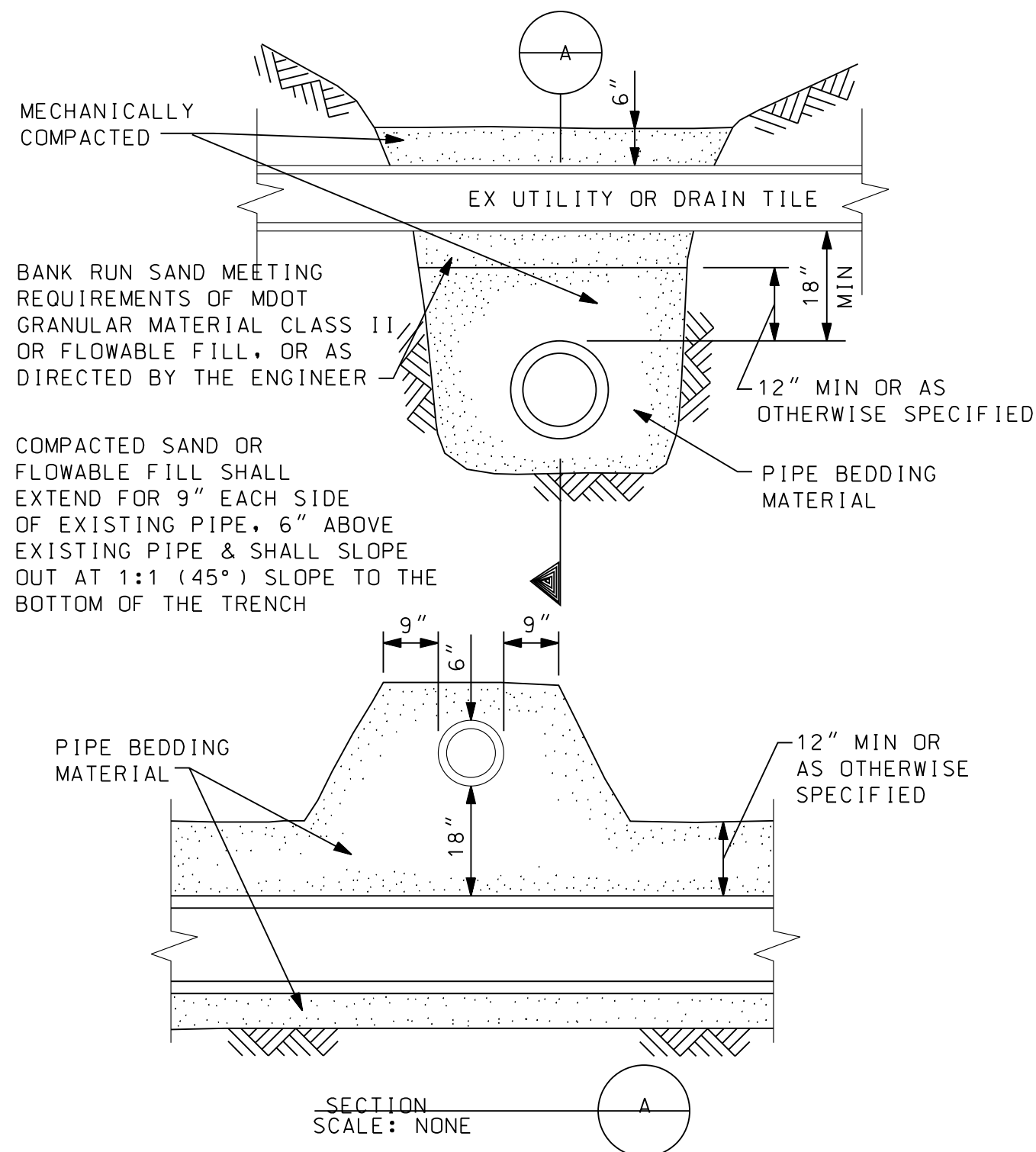
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1  
L-100  
**LANDSCAPE PLAN**  
SCALE: 1" = 20'-0"

Project Number: 22712.A

Sheet Number: **L-100**

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NOTE:  
WHERE CONCRETE ENCASEMENT IS SPECIFIED FOR NEW UTILITY A 6" MINIMUM LAYER OF MECHANICALLY COMPACTED SAND SHALL BE MAINTAINED BETWEEN EXISTING UTILITY & TOP OF CONCRETE ENCASEMENT.



STANDARD PIPE SUPPORT  
N. T. S.

GENERAL NOTES

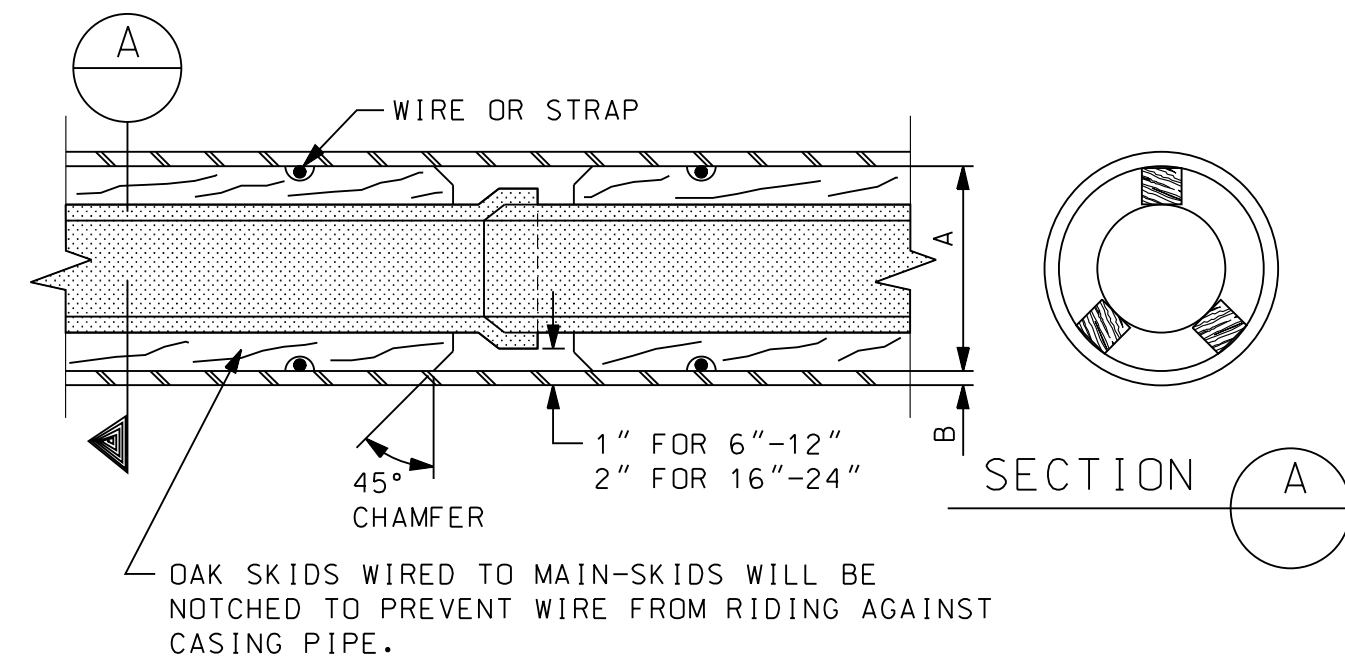
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION MEETING, AT A TIME AND PLACE AS ARRANGED BY THE COMMUNITY, IN WHICH VARIOUS UTILITY COMPANIES AND GOVERNMENTAL AGENCY REPRESENTATIVES WILL BE PRESENT.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST HAVE IN HIS POSSESSION A COPY OF ALL PERMITS NECESSARY TO CONSTRUCT A CONNECTION TO, OR AN EXTENSION OF, THE WATER SUPPLY, SANITARY SEWER, OR STORM SEWER SYSTEMS.
- THE CONTRACTOR SHALL MAINTAIN HIS CONSTRUCTION OPERATIONS WITHIN THE PRESENTLY EXISTING ROAD RIGHTS-OF-WAY AND EASEMENTS AS NOTED ON THE PLANS THROUGHOUT THE PROJECT. IN THE EVENT THAT THE CONTRACTOR DEEMS IT NECESSARY OR ADVISABLE TO OPERATE BEYOND THE LIMITS OF THE EXISTING RIGHTS-OF-WAY OR EASEMENTS, HE SHALL BE RESPONSIBLE FOR MAKING SPECIAL WRITTEN AGREEMENTS WITH THE PROPERTY OWNERS AND SHALL FURNISH SUCH COPIES OF AGREEMENTS TO THE COMMUNITY AND ENGINEER.
- THE CONTRACTOR SHALL NOTIFY "MISS DIG" (800-482-7171) 3 DAYS (NOT INCLUDING HOLIDAYS OR WEEKENDS) BEFORE STARTING CONSTRUCTION. HE SHALL MAKE ANY NECESSARY ARRANGEMENTS WITH UTILITY COMPANIES FOR RELOCATION OF EXISTING UTILITIES. THESE ARRANGEMENTS SHALL BE MADE IN SUFFICIENT TIME TO ALLOW THE RELOCATION WORK TO BE COMPLETED WITHOUT INTERFERING WITH OR DELAYING THE SEWER CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE ENGINEER 48 HOURS PRIOR TO UNCOVERING ANY EXISTING UTILITIES.
- ON ALL WORK WITHIN THE WAYNE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER AND THE COMMUNITY 72 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC AT ALL TIMES AS PER THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE EMERGENCY ACCESS TO PROPERTY IN THE VICINITY OF THE CONSTRUCTION FOR POLICE AND FIRE EQUIPMENT, AMBULANCES OR OTHER EMERGENCY VEHICLES TO PROTECT LIFE, HEALTH AND PROPERTY.
- THE CONTRACTOR SHALL MAINTAIN PUBLIC ROADS AFFECTED BY THE CONSTRUCTION OPERATIONS IN A PASSABLE CONDITION UNTIL SUCH TIME AS FINAL RESTORATION OF THESE IMPROVEMENTS CAN BE MADE. IF THE PUBLIC SAFETY IS IN DANGER OR THE NECESSITY EXISTS FOR MAINTAINING TRAFFIC, BACKFILLING MUST BE COMPLETED IMMEDIATELY. IN THE EVENT THAT THE NECESSARY BACKFILL MATERIAL AND EQUIPMENT ARE NOT AVAILABLE WHEN DIRECTION IS GIVEN FOR IMMEDIATE BACKFILL, THE TRENCH SHALL BE BACKFILLED WITH NATIVE MATERIAL TO PROVIDE FOR THE NECESSARY MAINTENANCE OF TRAFFIC AND SAFETY; HOWEVER, THE NATIVE MATERIAL SHALL BE REMOVED WITHIN 48 HOURS AND THE TRENCH PROPERLY BACKFILLED.

GENERAL NOTES CONTINUED

- NO STREET, ROAD OR SECTION THEREOF SHALL BE CLOSED TO THROUGH TRAFFIC UNLESS AUTHORIZED BY THE AGENCY WITH JURISDICTION OVER THE ROADS. PRIOR TO CLOSING A STREET, ROAD, OR SECTION THEREOF, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF A DETOUR PLAN APPROVED BY THE AGENCY HAVING JURISDICTION OVER THE ROADS.
- IN THE EVENT ROADS ARE TO BE CLOSED, THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT, POLICE DEPARTMENT, LOCAL ROAD AUTHORITY, AMBULANCE AND EMERGENCY SERVICES, DEPARTMENT OF PUBLIC WORKS, PUBLIC TRANSIT AUTHORITY, PUBLIC SCHOOL SYSTEM, LOCAL TRASH PICKUP AUTHORITY, AND PUBLIC AND PRIVATE UTILITIES DAILY AS TO WHAT STREETS WILL BE PARTLY BLOCKED OR CLOSED, THE LENGTH OF TIME THE STREETS WILL BE BLOCKED OR CLOSED AND WHEN THE STREETS WILL BE REOPENED TO TRAFFIC.
- PAVED STREETS AND DRIVEWAYS SHALL BE MAINTAINED IN A REASONABLE STATE OF CLEANLINESS AND THE CONTRACTOR SHALL REMOVE ACCUMULATIONS OF DEBRIS CAUSED BY HIS OPERATIONS. THE CONTRACTOR SHALL HAVE, AS A MINIMUM, AN OPERATING SWEEPER BROOM ON THE SITE AT ALL TIMES. THE PAVEMENT SHALL BE CLEANED AT THE CLOSE OF EACH DAYS OPERATION AND AS OFTEN AS NECESSARY BEFORE THAT TIME. FAILURE TO COMPLY SHALL BE CAUSE TO STOP CONSTRUCTION. CONTRACTOR SHALL ALSO COMPLY WITH THE LOCAL AIR POLLUTION CONTROL ORDINANCE.
- ALL GRAVEL AND DIRT ROADS, STREETS OR DRIVEWAYS USED SHALL BE MAINTAINED BY GRADING, PLACING DUST PALLIATIVES, AND MAINTENANCE GRAVEL IN SUFFICIENT QUANTITIES TO ELIMINATE DUST AND MAINTAIN TRAFFIC AS DIRECTED BY THE AGENCY.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SHEETING, SHORING, DEWATERING, BRACING, TRENCH BOXES, ETC., TO PERFORM WORK SAFELY AND PROTECT EXISTING UTILITIES AND IMPROVEMENTS.
- THE FLOW IN THE EXISTING SEWERS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- CULVERTS, DITCHES, DRAIN TILES, TILE FIELD, DRAINAGE STRUCTURES, ETC., THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY RESTORED.
- ALL PROPERTY IRONS AND MONUMENTS, IF DISTURBED OR DESTROYED BY THE CONTRACTOR'S OPERATION, SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- AFTER ALL THE PIPE, STRUCTURES, ETC., HAVE BEEN LAID, CONSTRUCTED, AND BACKFILLED, THE SYSTEM SHALL BE TESTED AND FINAL INSPECTED. THE INSPECTION AND TESTING SHALL CONSIST OF A FIRST INSPECTION, TELEVISION INSPECTION (IF APPLICABLE) TESTING, AND FINAL INSPECTION AND MEASUREMENT. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SUPERVISION, LABOR, TOOLS, EQUIPMENT, AND THE MATERIALS NECESSARY FOR THE TESTS WHICH SHALL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER. THE ENGINEER SHALL BE NOTIFIED TWO (2) WORKING DAYS IN ADVANCE OF ALL TESTING.

GENERAL NOTES CONTINUED

- THE FIRST INSPECTION SHALL BE COMPLETED AND ALL REPAIRS MADE IN AMPLE TIME SO THAT THE TELEVISION INSPECTION OF THE UNDERGROUND PORTION OF THE SYSTEM CAN BE COMPLETED WITHIN FOUR (4) WEEKS OF THE COMPLETION OF THE CONSTRUCTION. WHEN RE-TELEVISION IS NECESSARY, AN ADDITIONAL TWO (2) WEEKS WILL BE ALLOWED FOR COMPLETION. TESTING OF THE SYSTEM AS HEREIN DESCRIBED SHALL IMMEDIATELY FOLLOW THE TELEVISION INSPECTION AND SHALL BE COMPLETED WITHIN A TWO (2) WEEK PERIOD.
- FAILURE TO MAINTAIN A SCHEDULE IN COMPLIANCE WITH THESE TERMS WILL AUTOMATICALLY CAUSE THE STOPPAGE OF OTHER WORK AT THE PARTICULAR SITE IN QUESTION UNTIL SUCH TIME AS THE FINAL INSPECTION OF THE COMPLETED UNDERGROUND PORTION OF THE SYSTEM HAS PROGRESSED TO ACCEPTABLE LIMITS.
- THE CONTRACTOR SHALL HAVE THE UNDERGROUND PORTION OF THE SEWER SYSTEM READY FOR THE FIRST INSPECTION WITHIN TWO (2) WEEKS AFTER THE COMPLETION OF UTILITY.
- THE FIRST INSPECTION SHALL CONSIST OF A VISIBLE AND AUDIBLE CHECK OF SEWERS, MANHOLES, GATE WELLS, AND OTHER STRUCTURES TO ASCERTAIN THAT THE STRUCTURE STEPS HAVE BEEN PLACED, ALL LIFT HOLES PLUGGED, THE CHANNELING OF THE MANHOLE BOTTOMS COMPLETED, ALL VISIBLE OR AUDIBLE LEAKS STOPPED, ALL PIPE HAS BEEN PLACED STRAIGHT AND TRUE TO THE PROPER GRADES AND ELEVATION, THE REQUIRED ADJUSTING RINGS AND FRAME AND COVER PROPERTY INSTALLED, ALL TRENCHES AND STRUCTURES BACKFILLED IN AN ACCEPTABLE MANNER AND THAT THE SYSTEM HAS BEEN THOROUGHLY CLEANED.
- THE FIRST INSPECTION SHALL BE CONSIDERED COMPLETED WHEN ALL THE REPAIRS HAVE BEEN MADE AND THE SYSTEM IS READY FOR A TELEVISION INSPECTION AND SUBSEQUENT TESTING.
- TRENCH BACKFILL UNDER ROAD SURFACES, PAVEMENTS, CURBS, DRIVEWAY, SIDEWALK AND WHERE THE TRENCH EDGE IS WITHIN 3- FEET OF THE PAVEMENT SHALL BE TRENCH B (SAND) PER SPECIFICATIONS SECTION 312333, TRENCHING AND BACKFILLING.
- AFTER ALL TESTING, TELEVISION INSPECTION, FINAL RESTORATION AND CLEAN-UP HAS BEEN COMPLETED, A FINAL INSPECTION AND MEASUREMENT WILL BE DONE. THE FINAL INSPECTION SHALL BE REQUESTED BY THE CONTRACTOR AND CONSIST OF, BUT IS NOT LIMITED TO, CHECKING FOR PROPER ALIGNMENT, PROPER GRADE, CLEANLINESS, LEAKS, CONFORMANCE TO THE PLANS AND SPECIFICATION, PROPER STRUCTURAL AND MECHANICAL ADJUSTMENTS, AND RESTORATION. FINAL MEASUREMENT INCLUDES STRUCTURE ELEVATIONS, DISTANCES BETWEEN STRUCTURES, AND CONFIRMATION UTILITIES ARE LOCATED WITHIN EASEMENT AND RIGHT-OF-WAY AREAS.
- SUCCESSFUL COMPLETION OF ANY TEST OR INSPECTION SHALL NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY TO CORRECT ANY DEFICIENCY OR NONCONFORMANCE TO THE PLANS OR SPECIFICATIONS WHICH MAY THEREAFTER BECOME KNOWN.

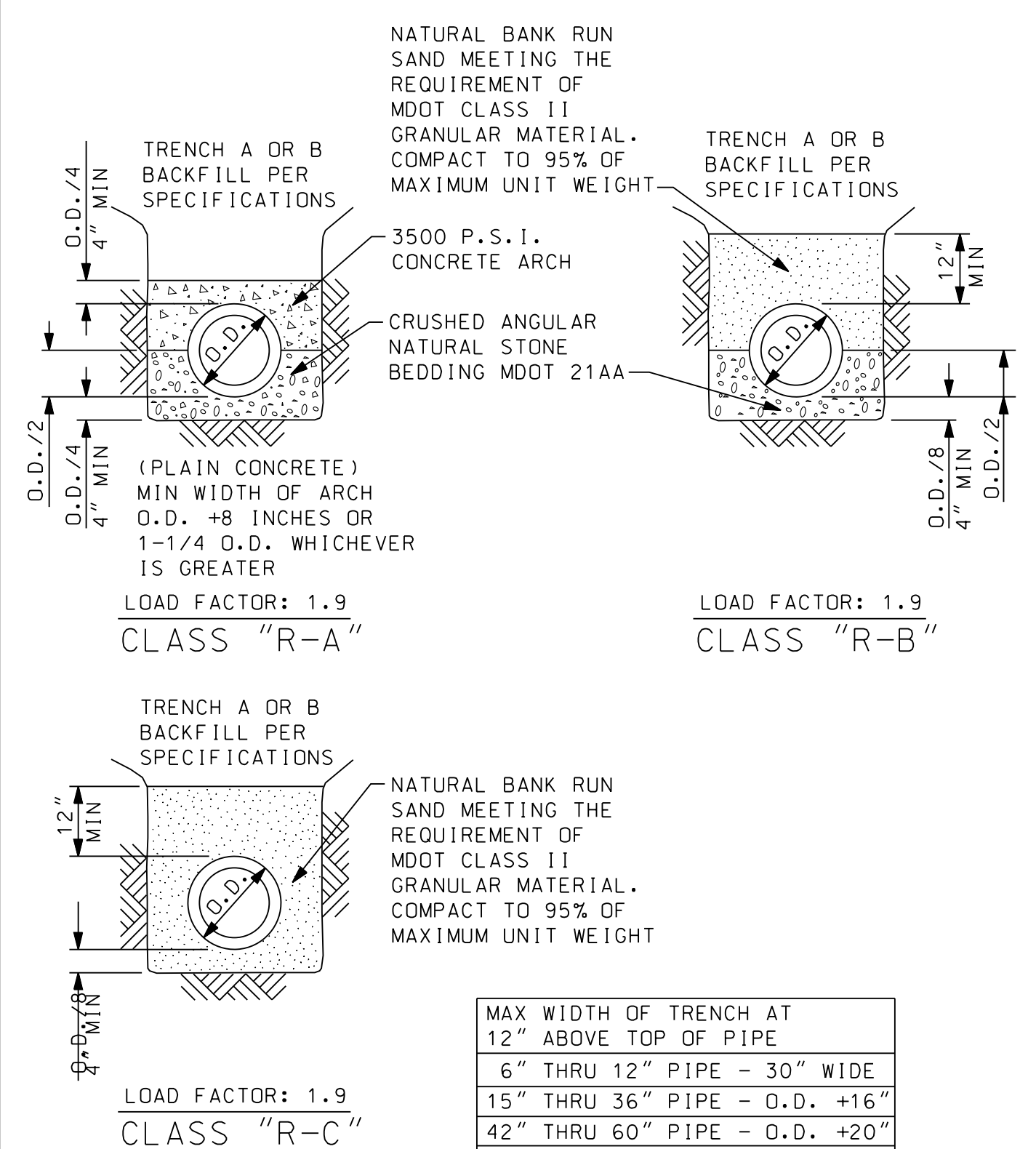


DIA OF SEWER	DIA OF MAIN	MIN "A"	ROAD CROSSING MIN "B"	RAILROAD CROSSING MIN "B"
6"	16"	.375	.375	.375
8"	16"	.375	.375	.375
10"	12"	.375	.438	.438
12" & 15"	20"	.375	.500	.500
18"	24"	.375	.500	.500

CASING PIPE SHALL BE WELDED STEEL PIPE A.S.T.M. A-252, GR 2 UNLESS OTHERWISE SPECIFIED.

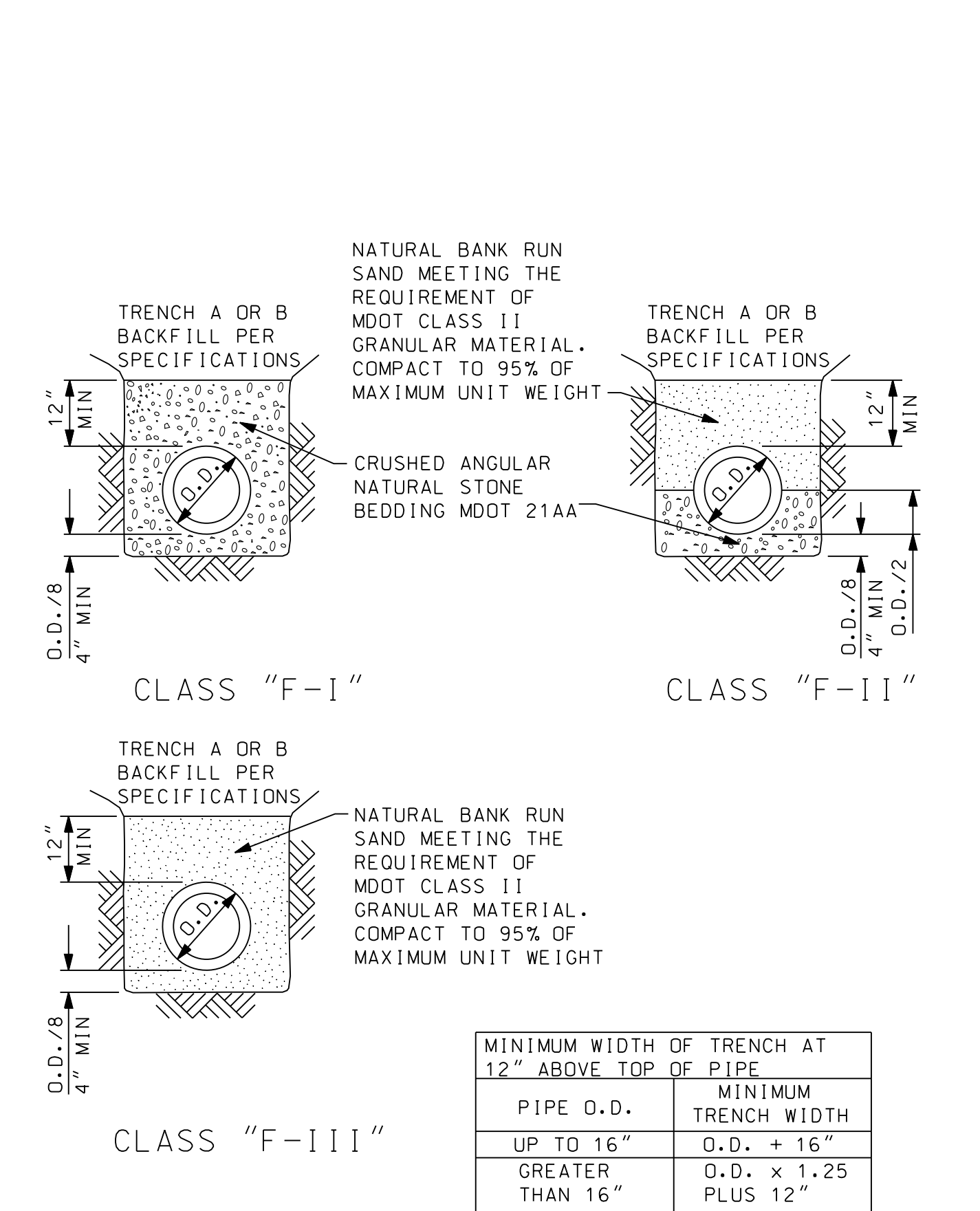
- NOTES:
- NO WATER SHALL BE USED IN BORING UNDER RAILROADS.
  - MAINTAIN MINIMUM OF 5'-6" OF COVER BETWEEN BASE OF RAIL AND TOP OF CASING.
  - THE ENDS OF THE CASING SHALL BE SUITABLY PROTECTED AGAINST THE ENTRANCE OF FOREIGN MATERIAL, BUT SHALL NOT BE TIGHTLY SEALED.
  - WHEN BORING ALL VOIDS OUTSIDE OF CASING PIPE SHALL BE FILLED BY MEANS OF PRESSURE GROUTING WITH 1:3 CEMENT-SAND MORTAR. THIS WORK MUST BE ACCOMPLISHED WITHIN 24 HOURS AFTER THE CROSSING HAS BEEN COMPLETED. BORING SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE THE EDGES OF THE PAVEMENT.
  - SKIDS ARE TO BE MINIMUM OF 80% OF PIPE LENGTH.
  - CASING SPACERS AS ALLOWED BY THE ENGINEER.

STANDARD CASING SECTION



MAX WIDTH OF TRENCH AT 12" ABOVE TOP OF PIPE
6" THRU 12" PIPE - 30" WIDE
15" THRU 36" PIPE - O.D. +16"
42" THRU 60" PIPE - O.D. +20"
OVER 60" PIPE - OUTSIDE DIAMETER OF PIPE +24"
MIN WIDTH OF TRENCH 12" ABOVE THE TOP OF PIPE SHALL BE 6" ON EACH SIDE OF PIPE

RIGID PIPE BEDDING DETAILS



MINIMUM WIDTH OF TRENCH AT 12" ABOVE TOP OF PIPE	
PIPE O.D.	MINIMUM TRENCH WIDTH
UP TO 16"	O.D. + 16"
GREATER THAN 16"	O.D. x 1.25 PLUS 12"

FLEXIBLE PIPE BEDDING DETAILS

PROJECT MANAGER: FIELD BOOK INFORMATION: NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: 26251 Northline Rd. PO Box 10 Taylor, MI 48180 www.wadetrims.com

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CITY OF TAYLOR

STANDARD MISCELLANEOUS DETAILS (MD-1)

ISSUED FOR: DATE: BY:

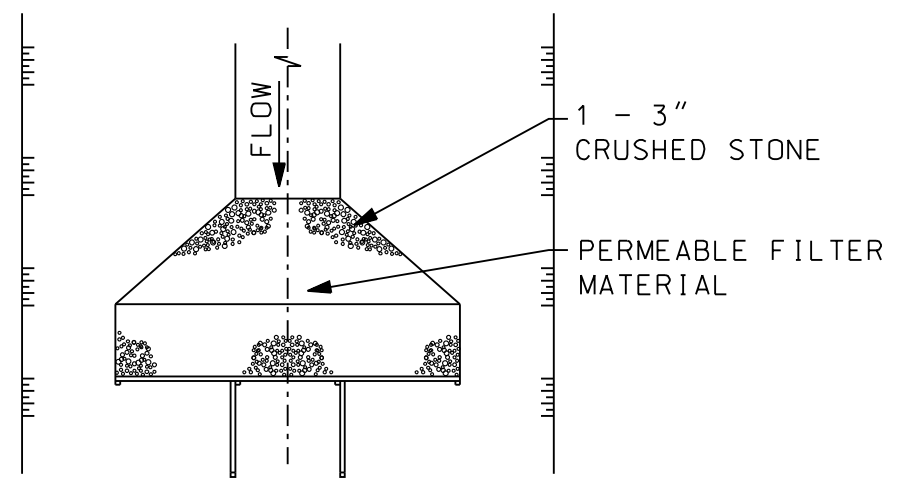
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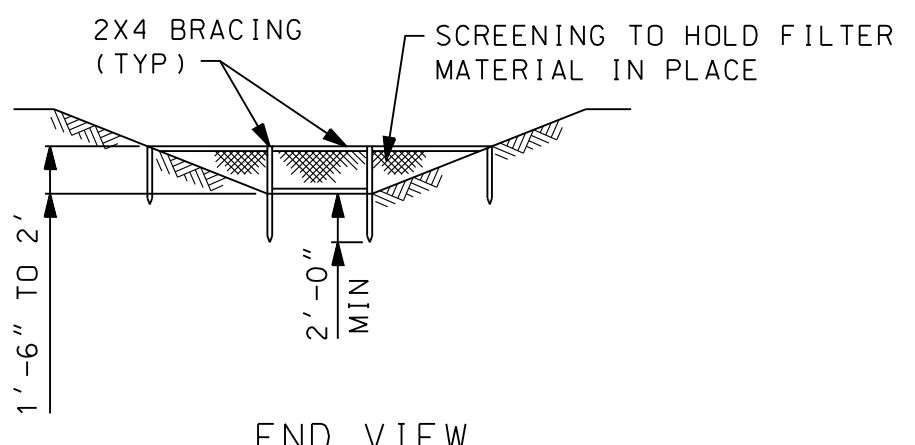
MD-1

STANDARD MISCELLANEOUS DETAILS (MD-1)

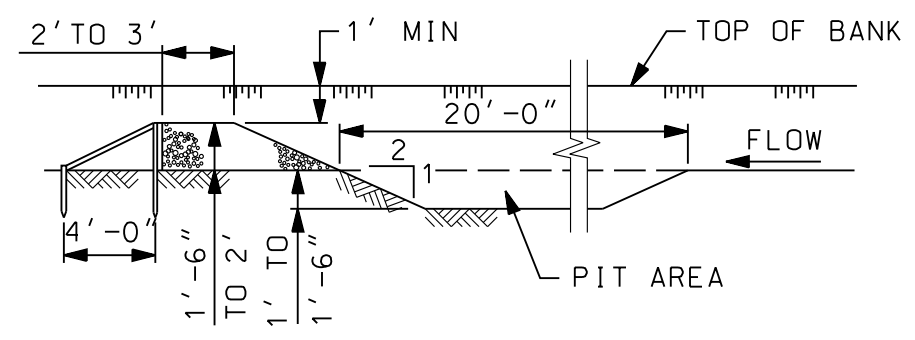
PROJECT MANAGER: [redacted] FIELD BOOK INFORMATION: [redacted] 3/17/2021 3:39:18 PM BY: m/amsagan



PLAN VIEW



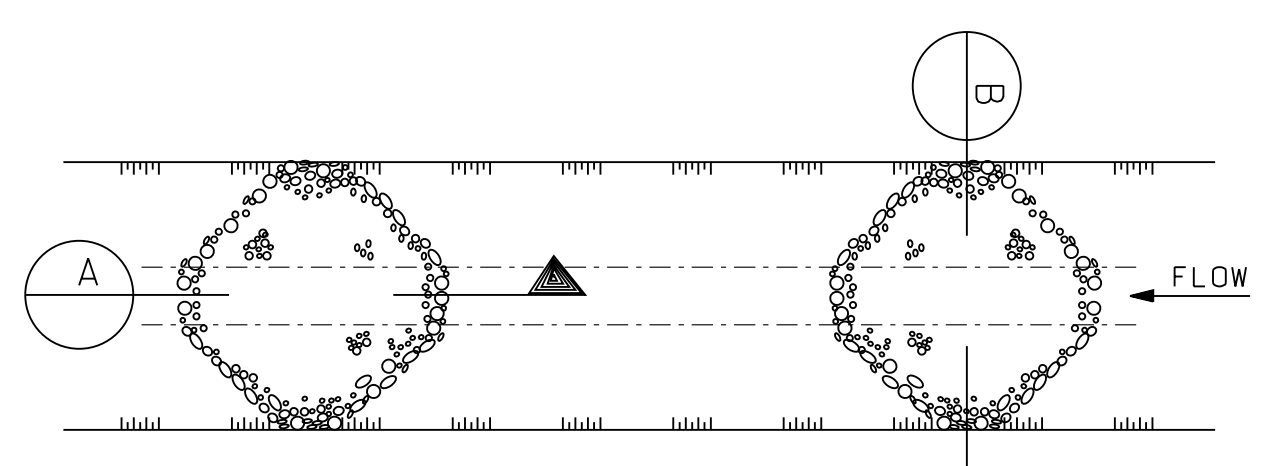
END VIEW



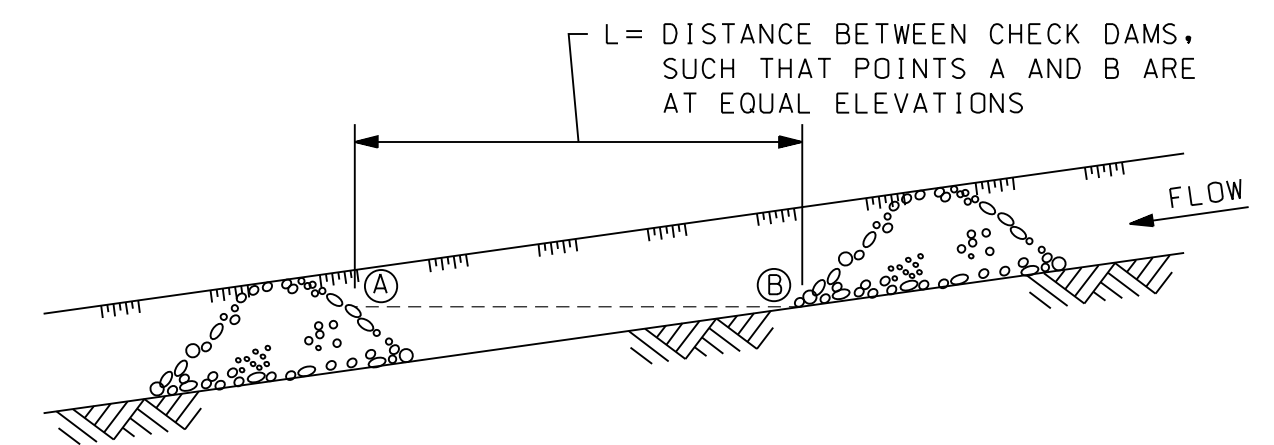
SECTION

- NOTES:
1. PLACE DITCH SEDIMENT TRAP PRIOR TO ON-SITE CONSTRUCTION WORK.
  2. MAINTAIN DITCH SEDIMENT TRAP IN GOOD OPERATION DURING PROJECT & REMOVE AT END OF PROJECT.
  3. CHANNEL TO BE RESTORED TO ORIGINAL CONDITION OR BETTER AS DIRECTED BY THE ENGINEER.
  4. CRUSHED STONE INCLUDED WITH DITCH SEDIMENT TRAP.

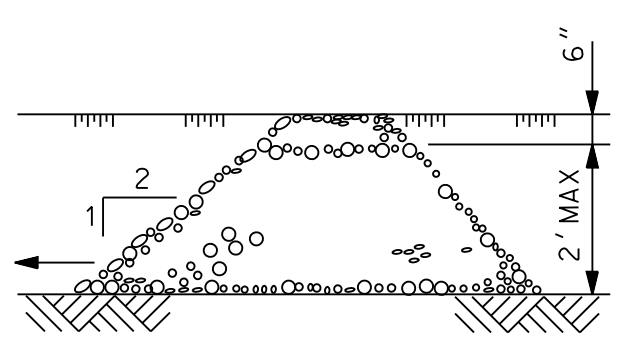
DITCH SEDIMENT TRAP  
NOT TO SCALE



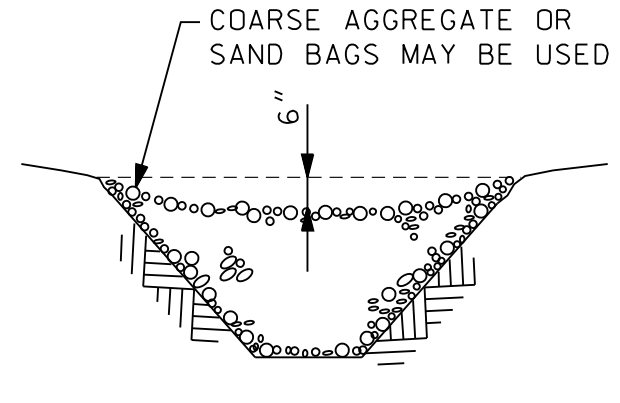
PLAN VIEW



CROSS-SECTION



SECTION A-A



SECTION B-B

- NOTE:
- CHECK DAMS GREATER THAN TWO FEET IN DEPTH MAY SERIOUSLY IMPACT THE FLOW CHARACTERISTICS OF THE DITCH.

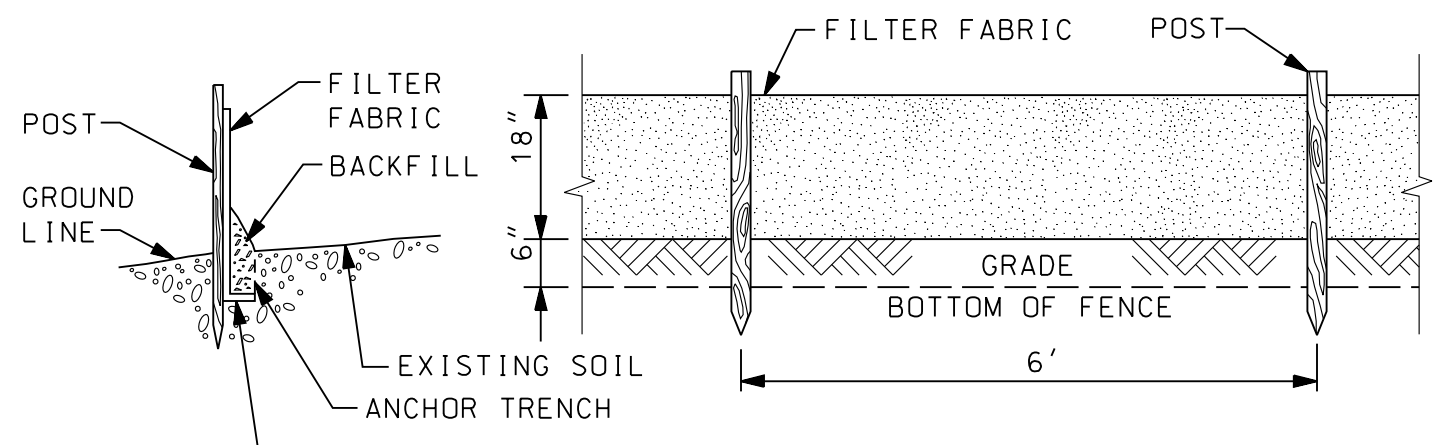
CHECK DAMS  
NOT TO SCALE

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
2. ALL SOIL EROSION CONTROL MEASURES SHALL BE CHECKED A MINIMUM OF ONCE PER WEEK AND WITHIN A MINIMUM OF 24 HOURS AFTER EVERY RAINFALL. ANY SOIL EROSION CONTROL MEASURES DAMAGED OR RENDERED INEFFECTIVE SHALL BE IMMEDIATELY REPAIRED OR REMOVED AND REPLACED AT NO ADDITIONAL COST.
3. EROSION AND ANY SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
4. ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) DEVICES SHALL BE INSTALLED PRIOR TO CONTRACTOR BEGINNING ANY WORK. ALL SESC DEVICES SHALL BE MAINTAINED IN AN EFFECTIVE, FUNCTIONING CONDITION AT ALL TIMES DURING THE COURSE OF THE WORK. ALL TEMPORARY SESC DEVICES SHALL BE REMOVED AND THE AREA RESTORED AFTER THE PERMANENT SESC MEASURES ARE INSTALLED AND FUNCTIONING.
5. DEBRIS FROM THE PROJECT SHALL BE LEFT ON THE SITE BY DELIVERY OR CONSTRUCTION VEHICLES THROUGH THE USE OF CLEAN STONE EXITS. SHOULD THE STONE BECOME INEFFECTIVE IT WILL BE REPLACED. ALL CONSTRUCTION TRAFFIC WILL USE THE CLEAN STONE EXITS.
6. IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW OR HAY SPREAD UNIFORMLY AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE. ANCHOR MULCH WITH DISC-TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE AGENCY WITH JURISDICTION.
7. ALL MUD, DIRT, AND DEBRIS TRACKED OR SPILLED ONTO EXISTING ROADS FROM THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
8. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR FINAL EARTH CHANGES HAVE BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE ESTABLISHED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED. ALL DRAIN BANKS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITHIN FIVE CALENDAR DAYS AND SOD PEGGED IN PLACE.
9. PARTICULAR CARE SHOULD BE TAKEN WHEN WORKING ALONG THE PERIMETER OF THE SITE. IN NO EVENT SHALL WORK AREA EXTEND BEYOND THE LIMITS INDICATED ON THE PLANS.

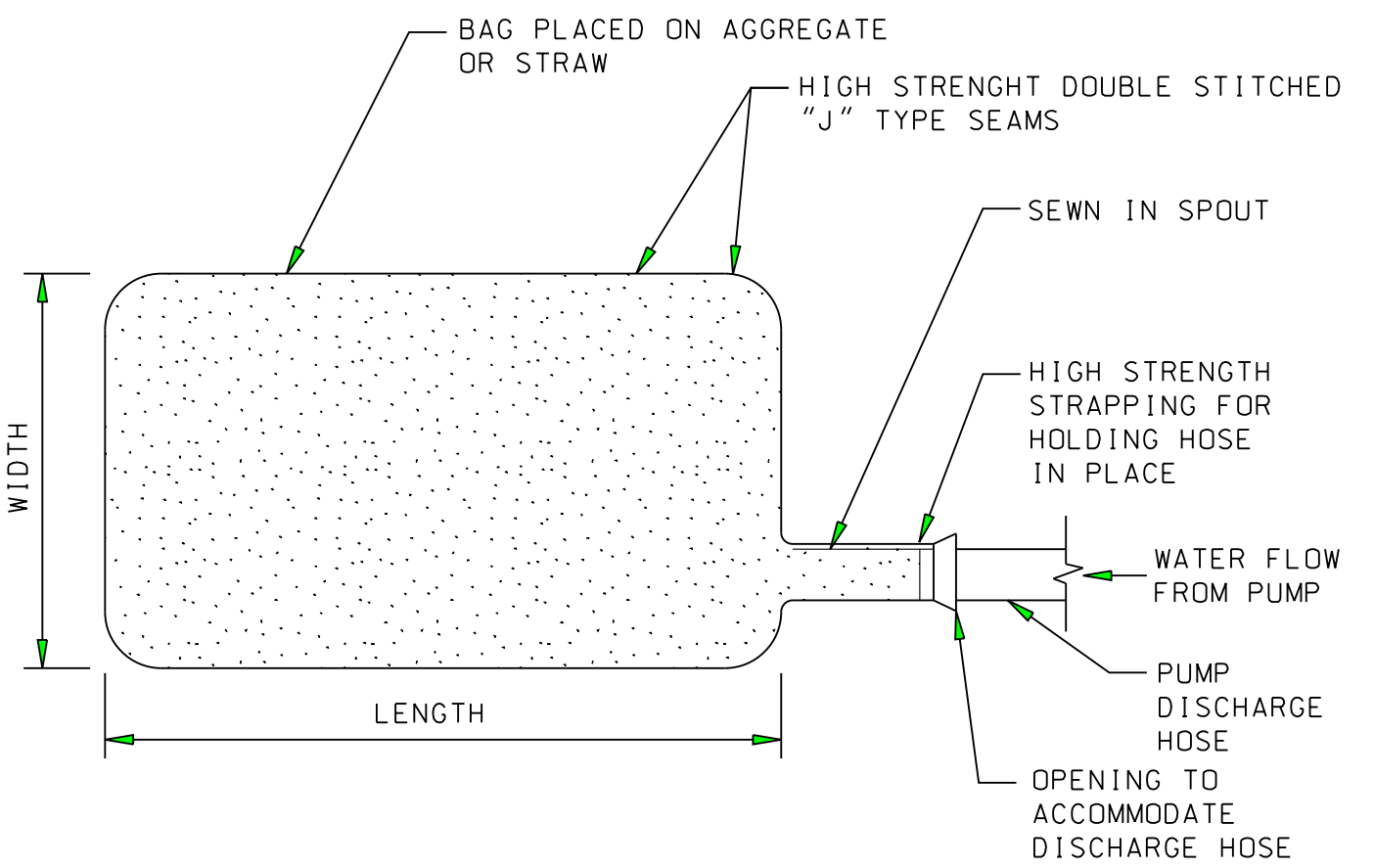
SOIL EROSION AND SEDIMENTATION CONTROL NOTES

10. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO DEWATER THE GROUND IN THE COURSE OF CONSTRUCTING THE PROPOSED UTILITY, THE CONTRACTOR SHALL FILTER ALL DISCHARGE THROUGH A DISCHARGE FILTER BAG. THAT WILL FILTER ALL DISCHARGED WATER FROM THE DEWATERING OPERATION. IN NO INSTANCE SHALL THE DEWATERING DISCHARGE BE PERMITTED TO FLOW UNFILTERED FROM THE CONSTRUCTION SITE.
11. THE CONTRACTOR SHALL CONTROL THE DUST ON THE SITE DURING THE LIFE OF THE CONTRACT. IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE COMMUNITY THIS DUST CONTROL SHALL BE ACCOMPLISHED BY THE APPLICATION OF A POSITIVE DUST PICK-UP METHOD WITH WATER ON HARD SURFACES. SUCH DUST CONTROL MATERIALS SHALL BE APPLIED AS OFTEN AS IS NECESSARY IN THE OPINION OF THE COMMUNITY TO CONTROL THE DUST.
12. SHOULD THE SOIL EROSION CONTROL REQUIREMENTS BE NEGLECTED OR NOT ADEQUATELY FOLLOWED, THE COMMUNITY MAY REQUIRE THE CONTRACTOR TO CEASE CONSTRUCTION OPERATIONS AND TO APPLY HIS ENTIRE FORCE TO MEET THE REQUIREMENTS BEFORE PROCEEDING FURTHER WITH THE PROJECT.
13. SOIL EROSION AND SEDIMENTATION CONTROL SHALL BE IN ACCORDANCE WITH PART 91 SOIL EROSION AND SEDIMENTATION CONTROL (SESC), OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT (NREPA), 1994 PA 451, AS AMENDED.
14. AS SOON AS POSSIBLE, COMPLETE FINAL GRADING AND PLACING OF PERMANENT SOIL EROSION CONTROL DEVICES. AFTER ESTABLISHMENT OF PERMANENT VEGETATION, REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES.

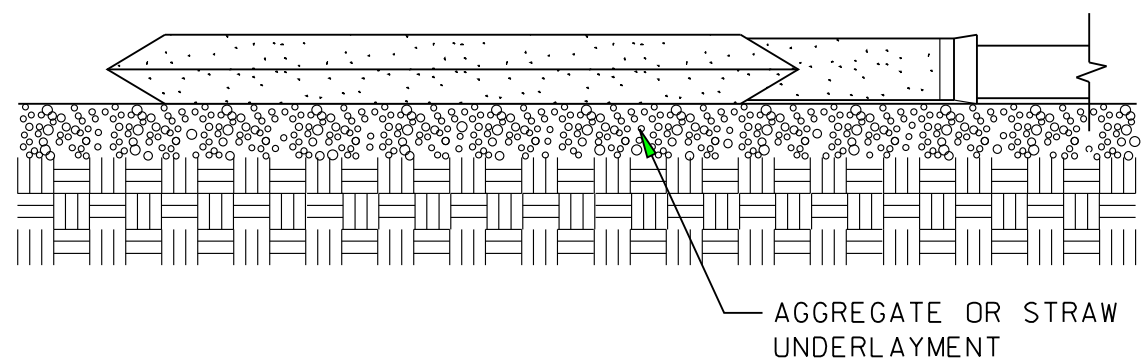


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SILT FENCE  
NOT TO SCALE

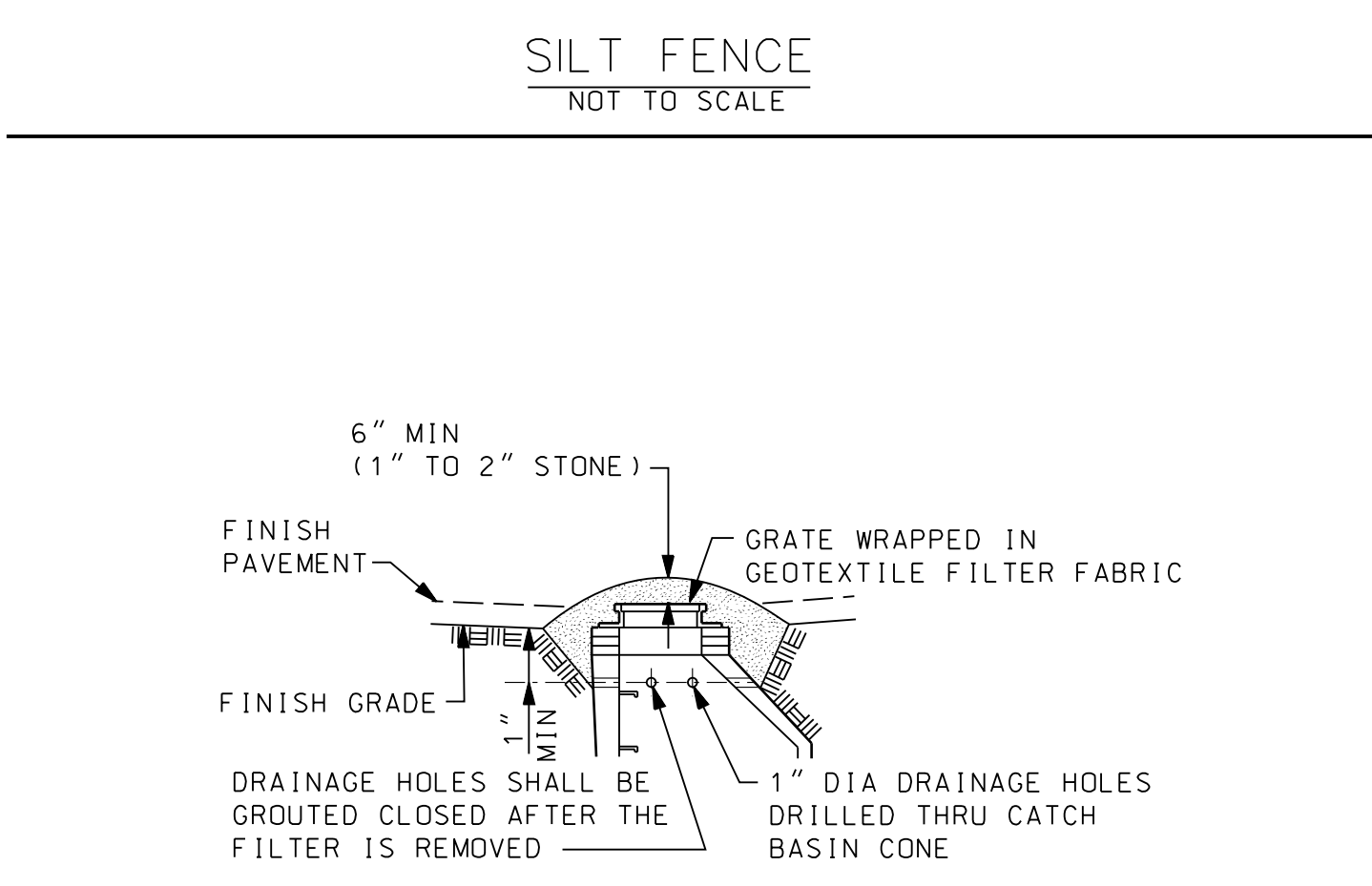


TOP VIEW

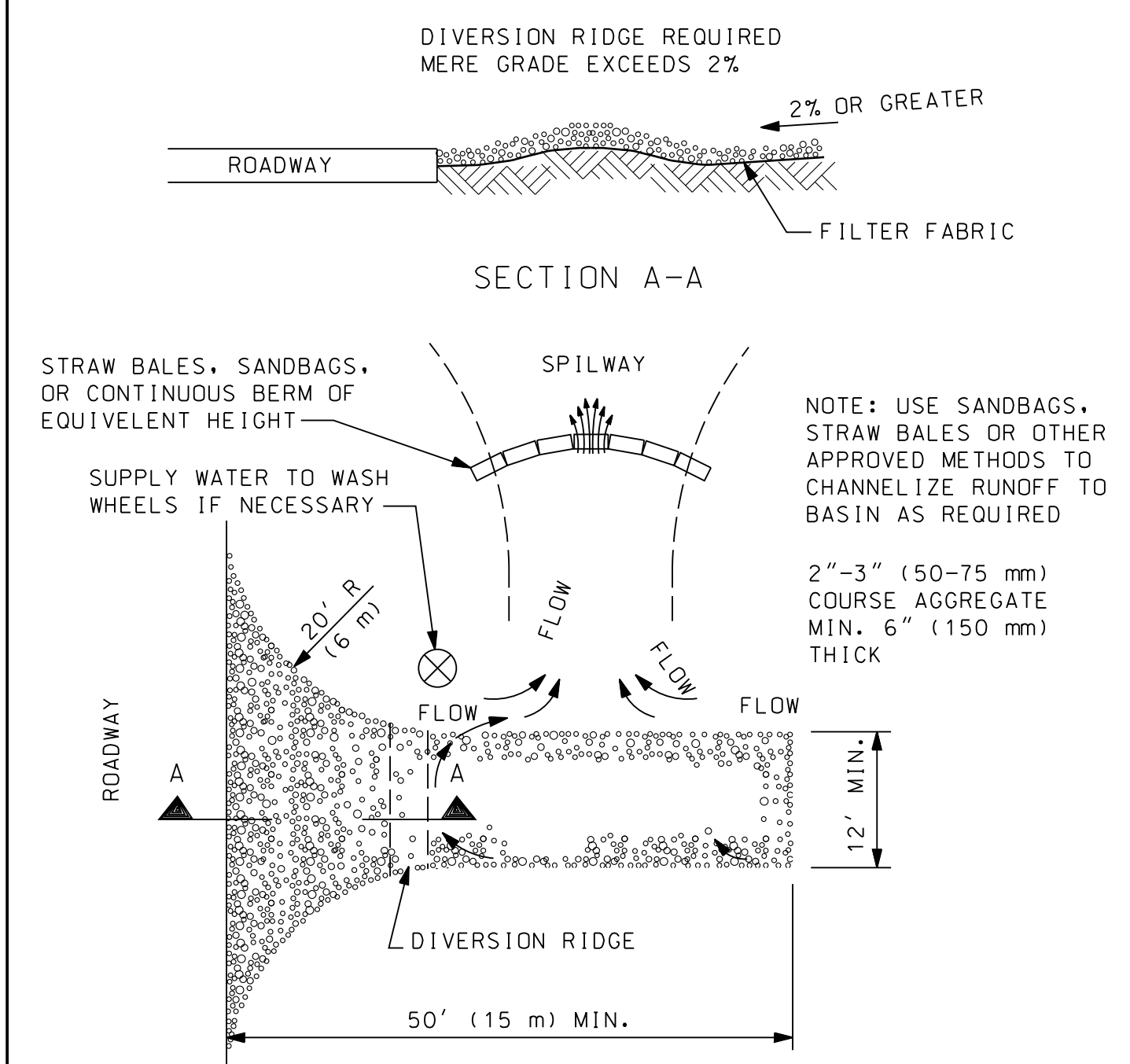


SIDE VIEW

DEWATERING FILTER BAG DETAIL  
NOT TO SCALE



DRAINAGE STRUCTURE FILTER  
NOT TO SCALE



SECTION A-A

- NOTE:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION  
ENTRANCE/EXIT  
NOT TO SCALE

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CITY OF TAYLOR

STANDARD SOIL EROSION AND SEDIMENTATION CONTROL DETAILS (SE-1)

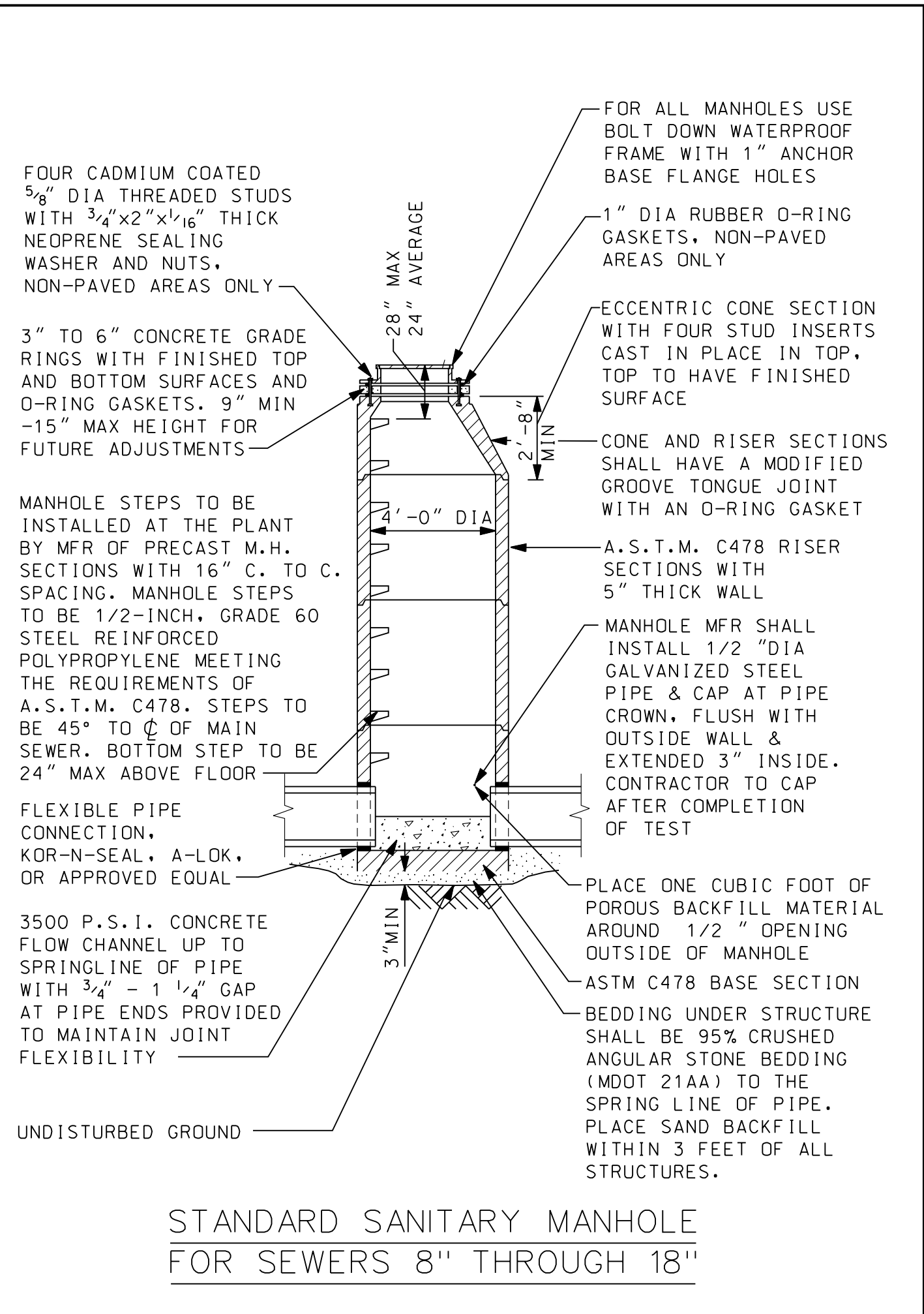
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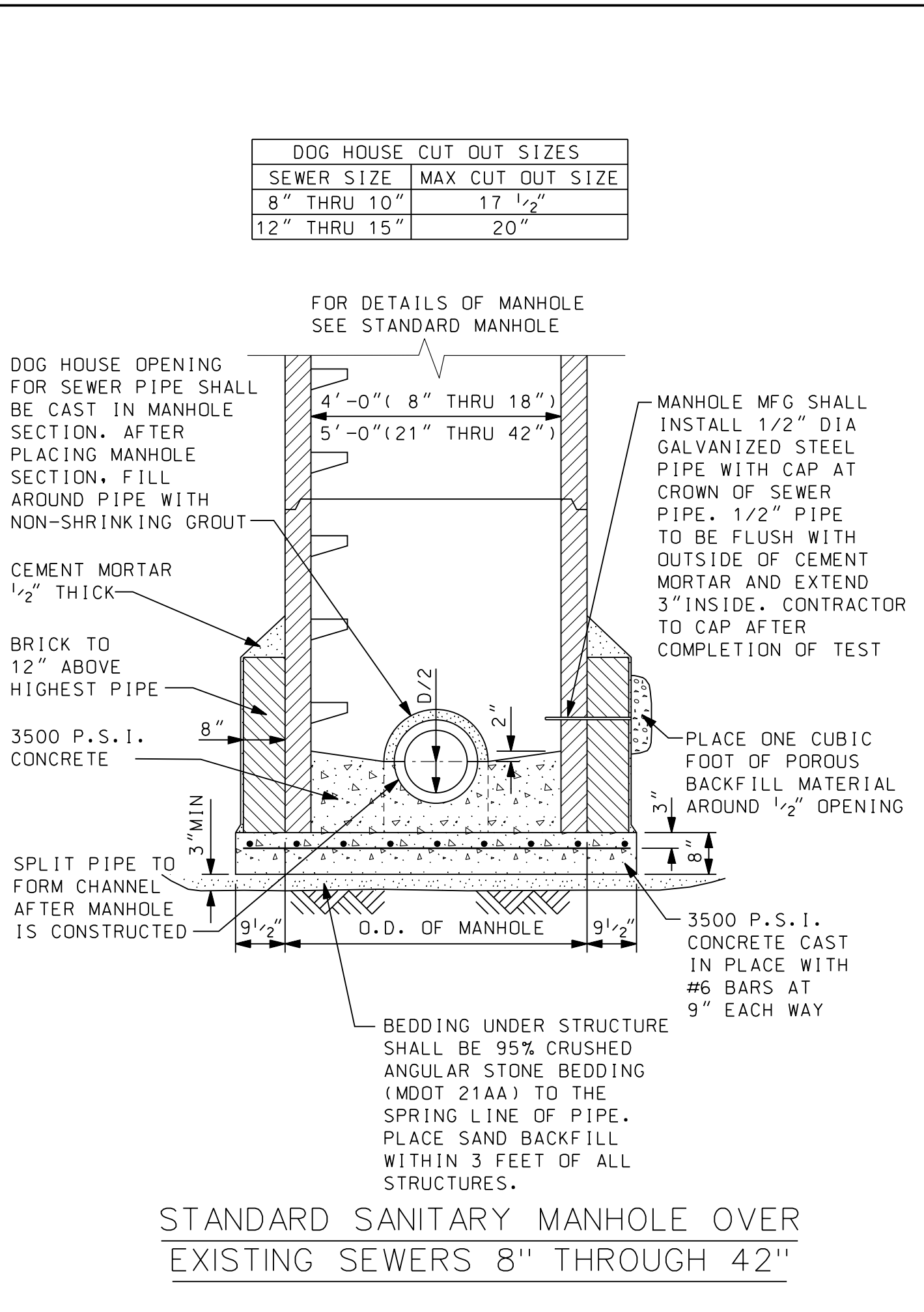
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SE-1

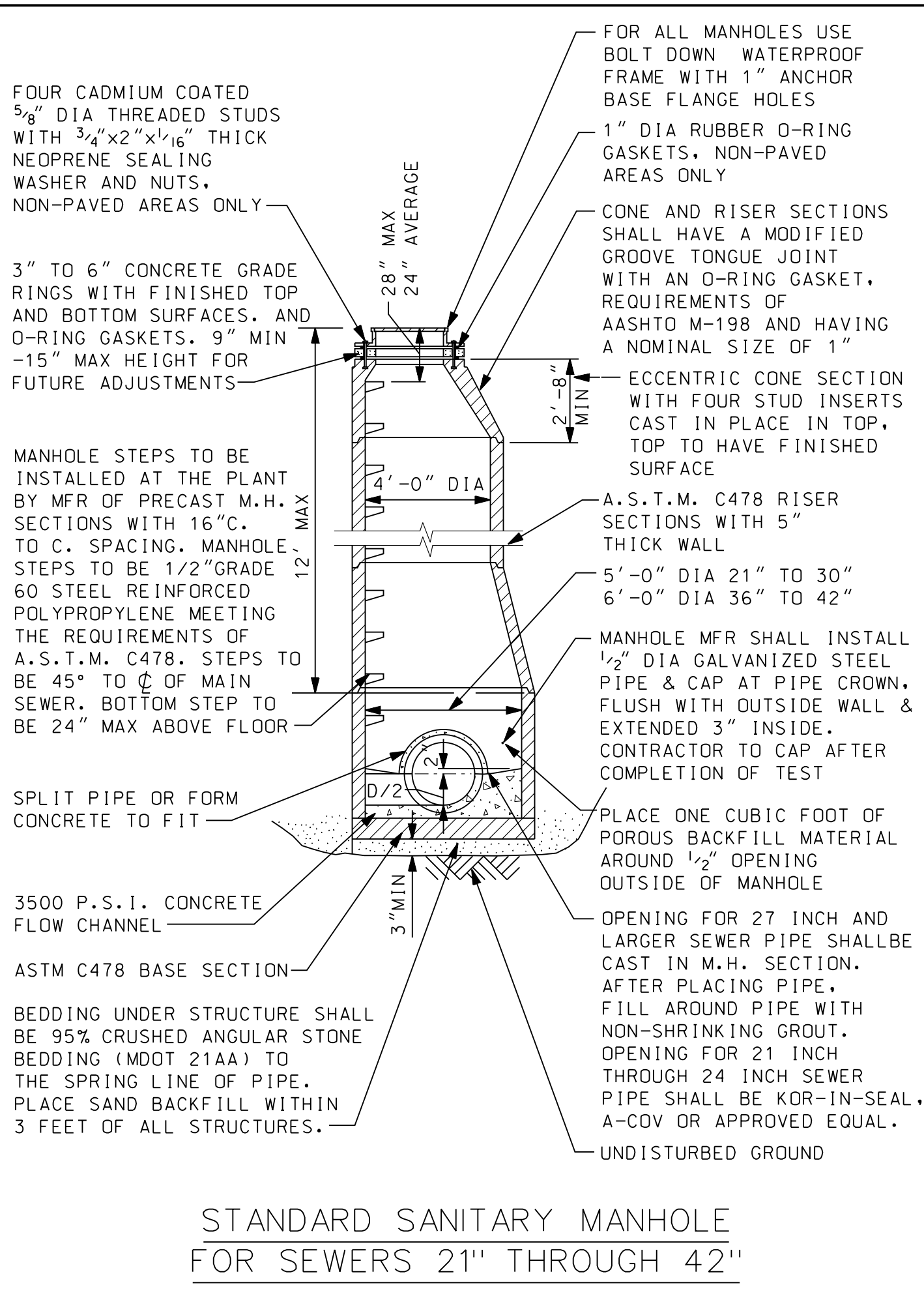
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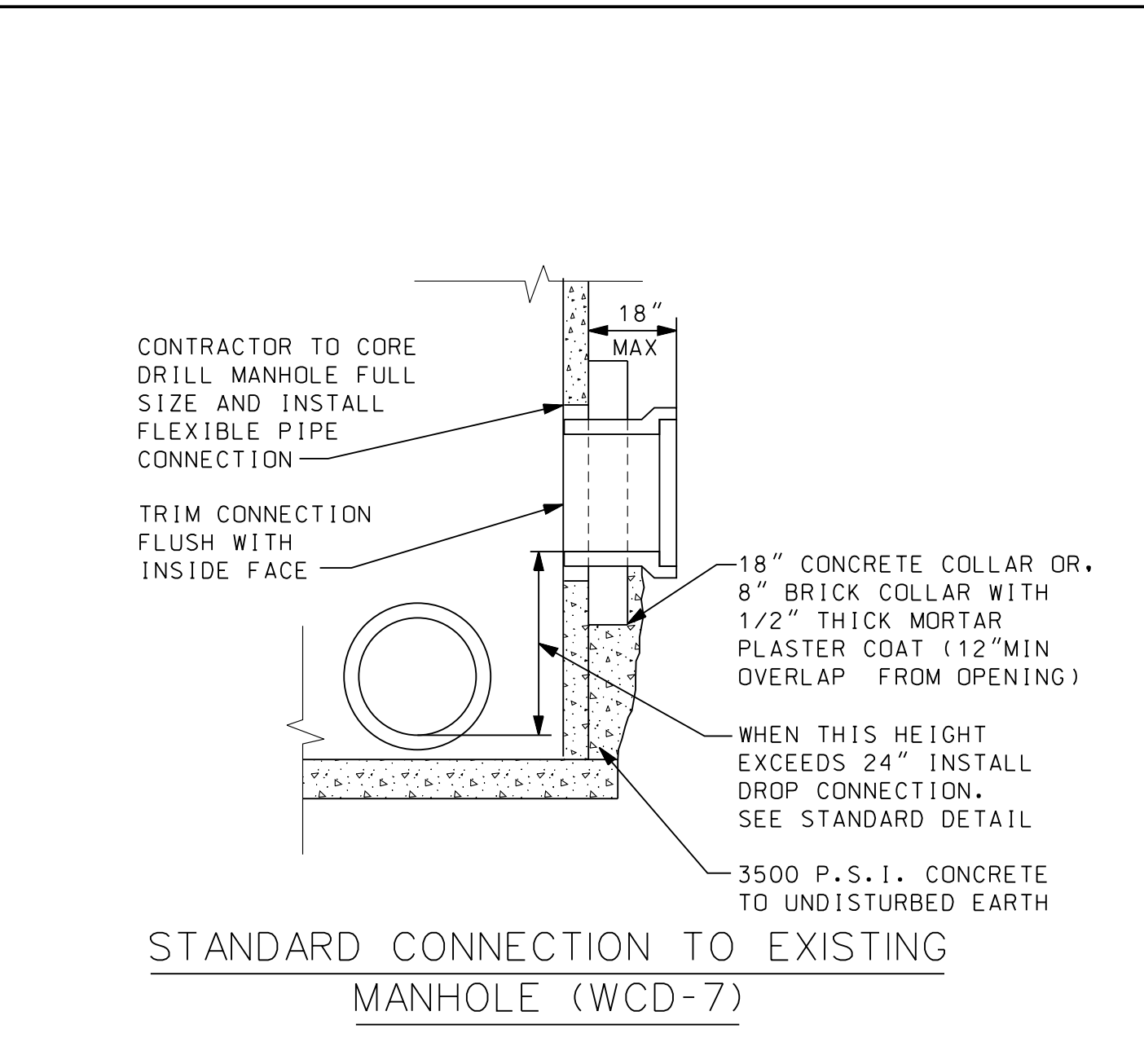
STANDARD SANITARY MANHOLE FOR SEWERS 8" THROUGH 18"



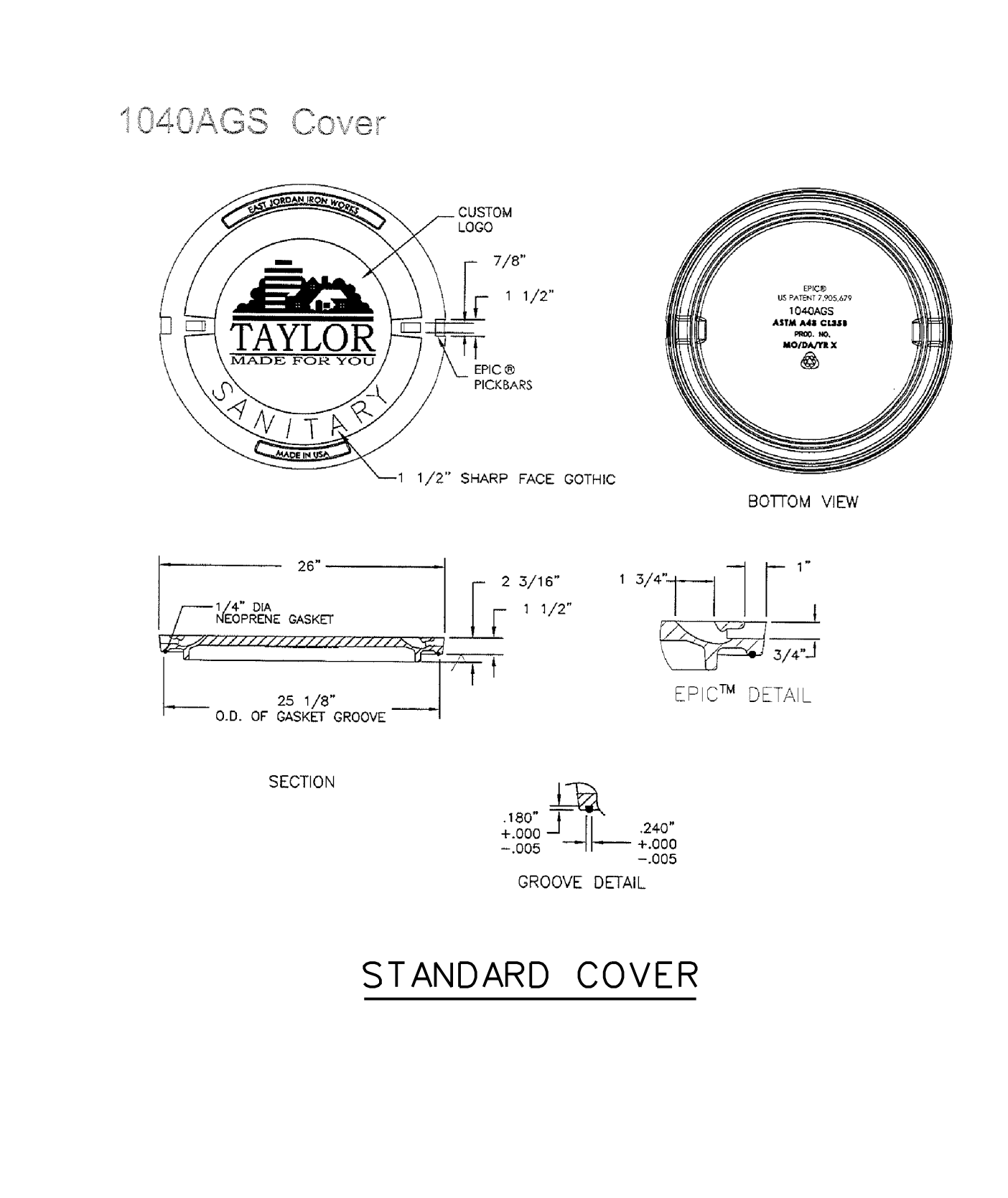
STANDARD SANITARY MANHOLE OVER EXISTING SEWERS 8" THROUGH 42"



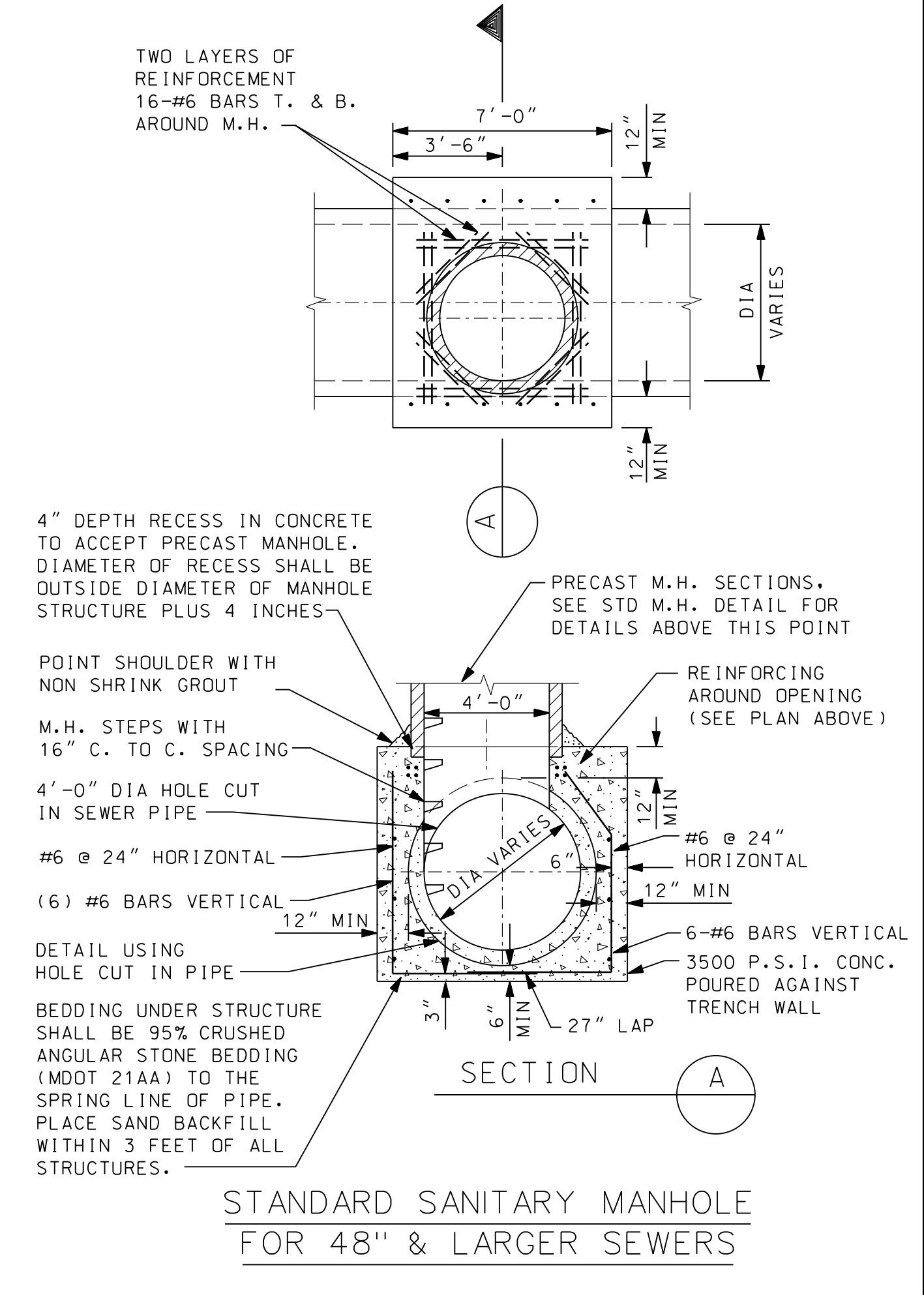
STANDARD SANITARY MANHOLE FOR SEWERS 21" THROUGH 42"



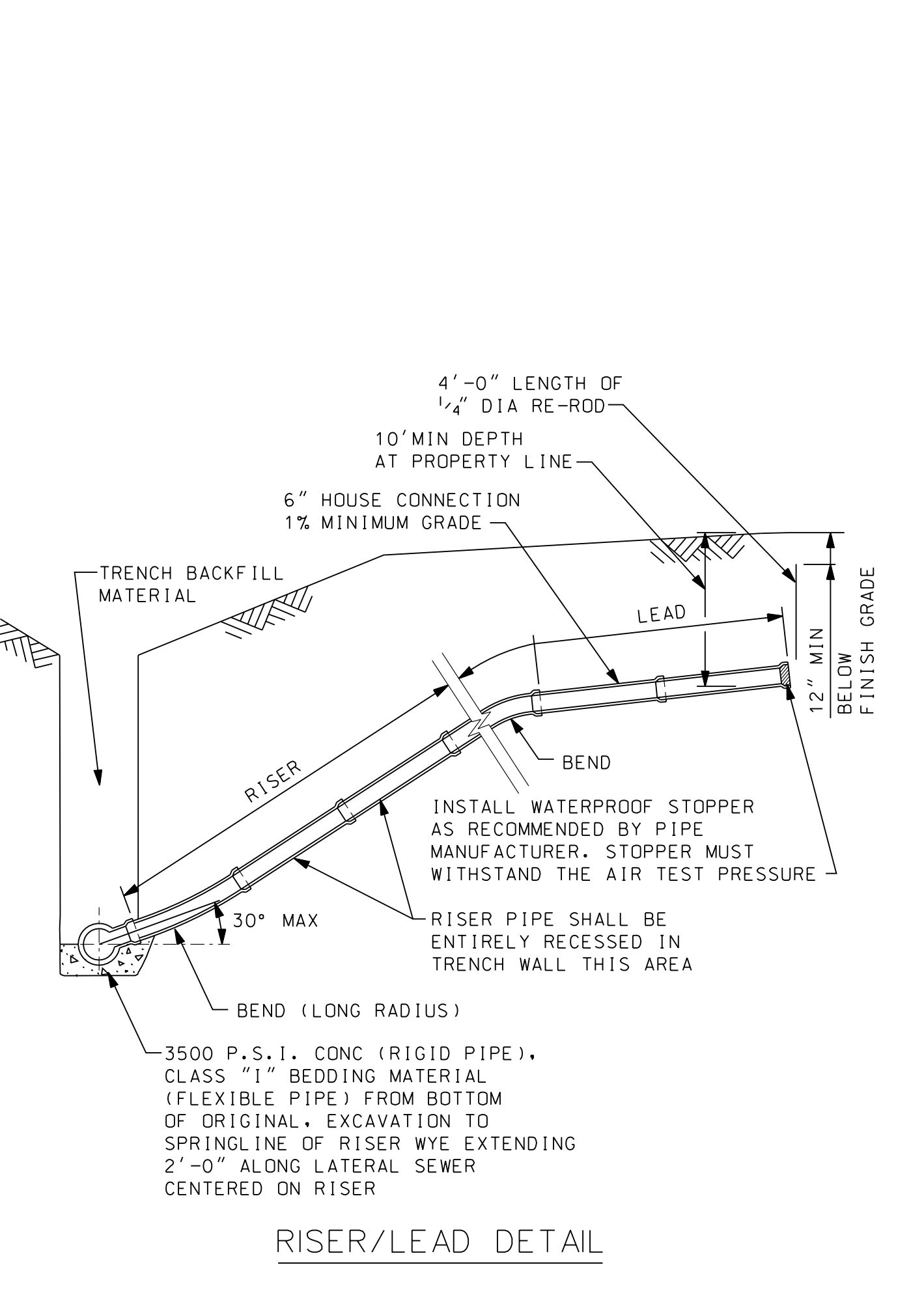
STANDARD CONNECTION TO EXISTING MANHOLE (WCD-7)



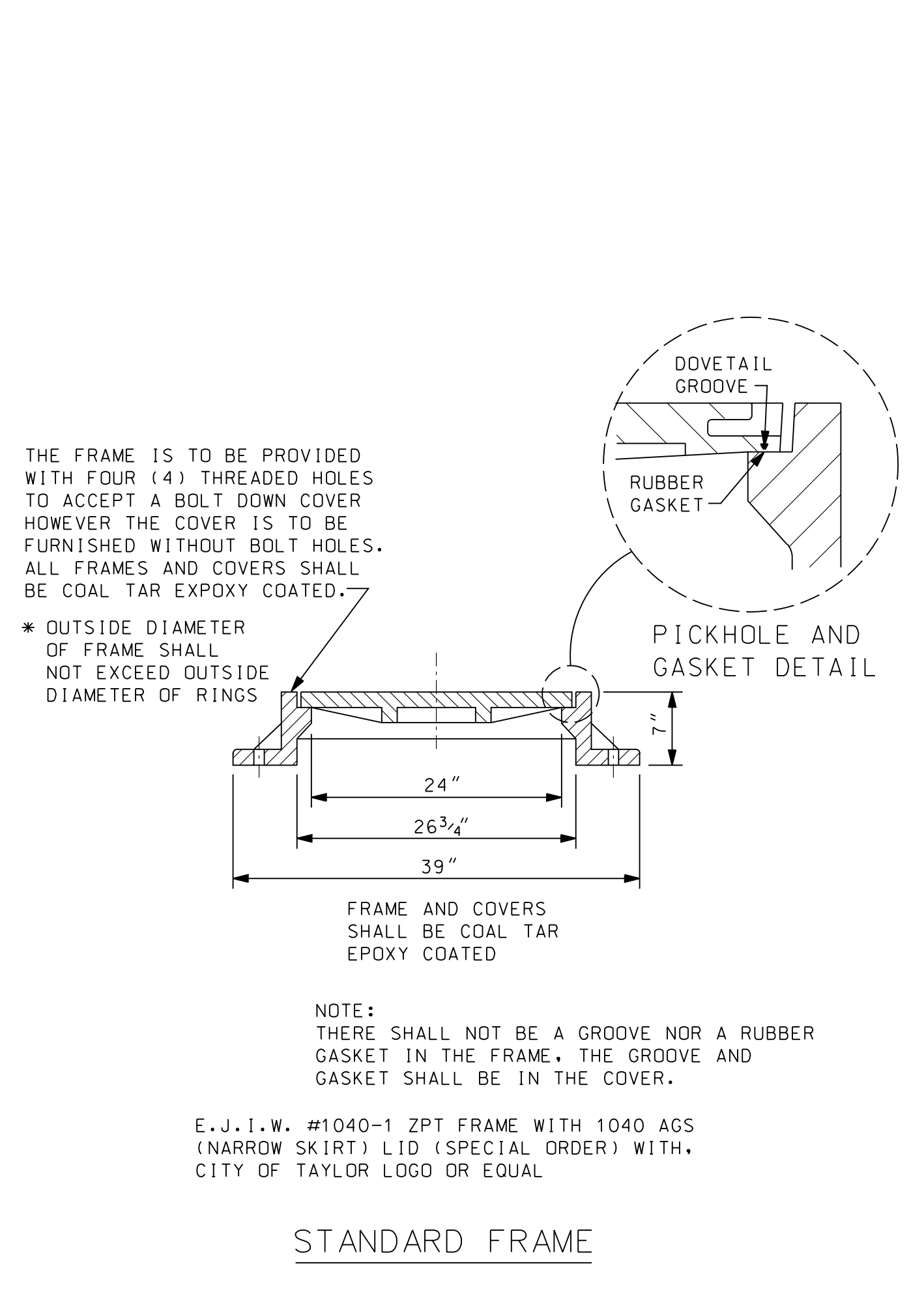
STANDARD COVER



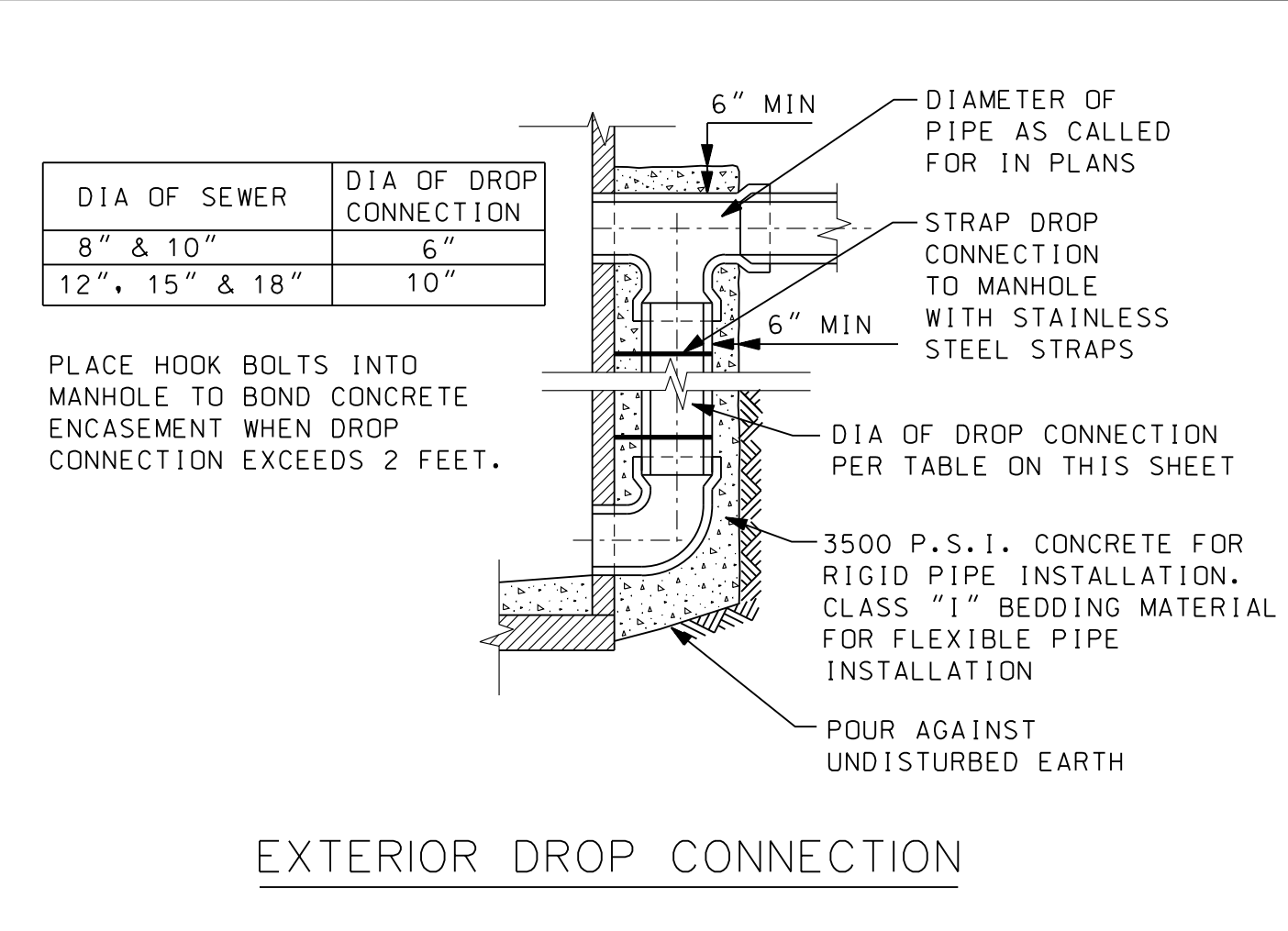
STANDARD SANITARY MANHOLE FOR 48" & LARGER SEWERS



RISER/LEAD DETAIL



STANDARD FRAME



EXTERIOR DROP CONNECTION

PROJECT MANAGER: [unreadable] FIELD BOOK INFORMATION: [unreadable] STANDARD SANITARY SEWER DETAILS (SS-1)

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STANDARD SANITARY SEWER DETAILS (SS-1)

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SS-1

DATE

DESCRIPTION

BY

CITY OF TAYLOR NOTES

- SANITARY SEWER MAIN PIPE SHALL BE A MINIMUM OF 10-INCH DIAMETER:
  - REINFORCED CONCRETE ASTM C76, CL-IV WITH PREMIUM RUBBER JOINTS
  - VITRIFIED CLAY, ASTM C700 E.S., WITH RUBBER JOINTS PER ASTM C425
  - PVC TRUSS PIPE PIPE, ASTM D2680, WITH GASKETED JOINTS PER ASTM D3212
  - PVC SOLID WALL PIPE, ASTM D3034, SDR 26 FOR SIZES 8-INCH THROUGH 15-INCH PIPE, OR ASTM F679 FOR SIZES 18-INCH THROUGH 27-INCH. PLASTIC PIPE SHALL NOT BE USED IN INDUSTRIAL AREAS.
- SANITARY SEWER LEADS SHALL BE: C700 ES VITRIFIED CLAY PIPE WITH PREMIUM JOINTS FOR INDUSTRIAL USE AND PVC PIPE, ASTM D3034, SDR 23.5, 6-INCH, AND SDR 26 FOR 8-INCH FOR COMMERCIAL AND RESIDENTIAL USE.
- THE REQUIRED PIPE BEDDING IS MAXIMUM 3/4-INCH DIAMETER CRUSHED STONE.
- TRENCH "A" BACKFILL MATERIAL USED MUST BE FREE OF LARGE LUMPS OF CLAY, DEBRIS, AND ROCKS.
- TRENCH "B" SAND BACKFILL IS REQUIRED FOR SANITARY SEWER TRENCH LOCATED UNDER OR WITHIN THREE FEET OF PAVEMENT.
- THE MINIMUM SLOPE FOR THE BUILDING LEAD IS 1.0 PERCENT.
- ALL PRECAST PRODUCTS SHALL CONFORM TO THE REQUIRMENTS OF ASTM C-478.
- CLEANOUTS SHALL BE PROVIDED AT EVERY BEND, EVERY 100 LINEAL FEET AND PLACED 5 FEET FROM THE BUILDING.
- FRAME AND COVERS SHALL BE SPECIFIED AS FOLLOWS:
  - A. FRAME SHALL BE EJ 1040-1ZPT
  - B. COVER SHALL BE 1040AGS (SANITARY) WITH CITY LOGO

SANITARY SEWER NOTES

- ALL SEWER SYSTEM CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND GENERAL SPECIFICATION OF THE COMMUNITY SEWER DEPARTMENT AND ANY OTHER AGENCY HAVING JURISDICTION OF THE CONSTRUCTION AREA.
- DETAILS ARE FOR STRUCTURES WITH NO MORE THAN TWO PIPES ENTERING, 180° APART. LARGER DIAMETER STRUCTURES MAY BE REQUIRED FOR DIFFERENT CONFIGURATIONS.
- THE MANHOLE STRUCTURE REQUIRES A MINIMUM OF 8 INCHES OF CONCRETE WALL BETWEEN PIPE OPENINGS. LARGER DIAMETER STRUCTURES MAY BE REQUIRED WHERE PIPE ENTERING THE STRUCTURE ARE LESS THAN 90° APART IN ANY DIRECTION.
- CONSTRUCTION SHALL NOT COMMENCE WITHOUT A REPRESENTATIVE OF THE OWNER PRESENT.
- ALL MANHOLES SHALL USE ECCENTRIC CONES PLACED WITH STEPS AWAY FROM THE ROAD UNLESS DIRECTED OTHERWISE.
- ALL MANHOLES SHALL BE PROVIDED WITH WATER TIGHT MANHOLE COVERS AND RIMS SHALL BE SET TO GRADE OR AS INDICATED ON THE PLANS.
- ALL PRECAST PRODUCTS SHALL CONFORM TO THE REQUIRMENTS OF ASTM C-478.
- DIFFERENTIAL OF EXCAVATION AROUND EXISTING MANHOLES SHALL NOT EXCEED SIX FEET.
- EXTERIOR DROP CONNECTIONS ARE REQUIRED WHENEVER A SEWER INVERT IS 2.0 FEET OR GREATER ABOVE THE MANHOLE FLOW CHANNEL INVERT. INTERIOR DROP CONNECTIONS ARE NOT ALLOWED.
- NO SEWERS SHALL BE CONSTRUCTED LESS THAN 10-INCH DIAMETER WITHOUT SPECIFIC APPROVAL OF THE COMMUNITY SEWER DEPARTMENT.
- ALL RIGID SANITARY SEWER PIPE SHALL BE CLASS "R-B" BEDDING. ALL FLEXIBLE PIPE SHALL BE CLASS "F-1" BEDDING, UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET MD1 FOR BEDDING DETAILS.
- PLACE ONE 6-INCH WYE FOR EACH LOT OR PARCEL 100 FEET OR LESS IN WIDTH OR EVERY 100 FEET FOR LOTS OR PARCELS IN EXCESS OF 100 FEET ON SANITARY SEWERS UNLESS OTHERWISE NOTED.
- NO CONNECTION RECEIVING STORM WATER, SURFACE WATER, OR GROUND WATER SHALL BE MADE TO SANITARY SEWERS.
- NO FOOTING DRAINS SHALL BE CONNECTED TO THE BUILDINGS SANITARY SEWER.
- RISERS ON SANITARY SEWERS SHALL BE INSTALLED TO A DEPTH OF 10 FEET WHERE SEWER IS OVER 12 FEET.
- PRIOR TO THE BACKFILLING OF A SERVICE LEAD, A 2" BY 2" PIECE OF WOOD SHALL BE PLACED FROM A POINT IMMEDIATELY IN FRONT OF THE SERVICE CONNECTION TO 2-FOOT BELOW THE FINISH GROUND SURFACE. DO NOT REST THE MARKER ON ANY PORTION OF THE SERVICE CONNECTION OR STOPPER.

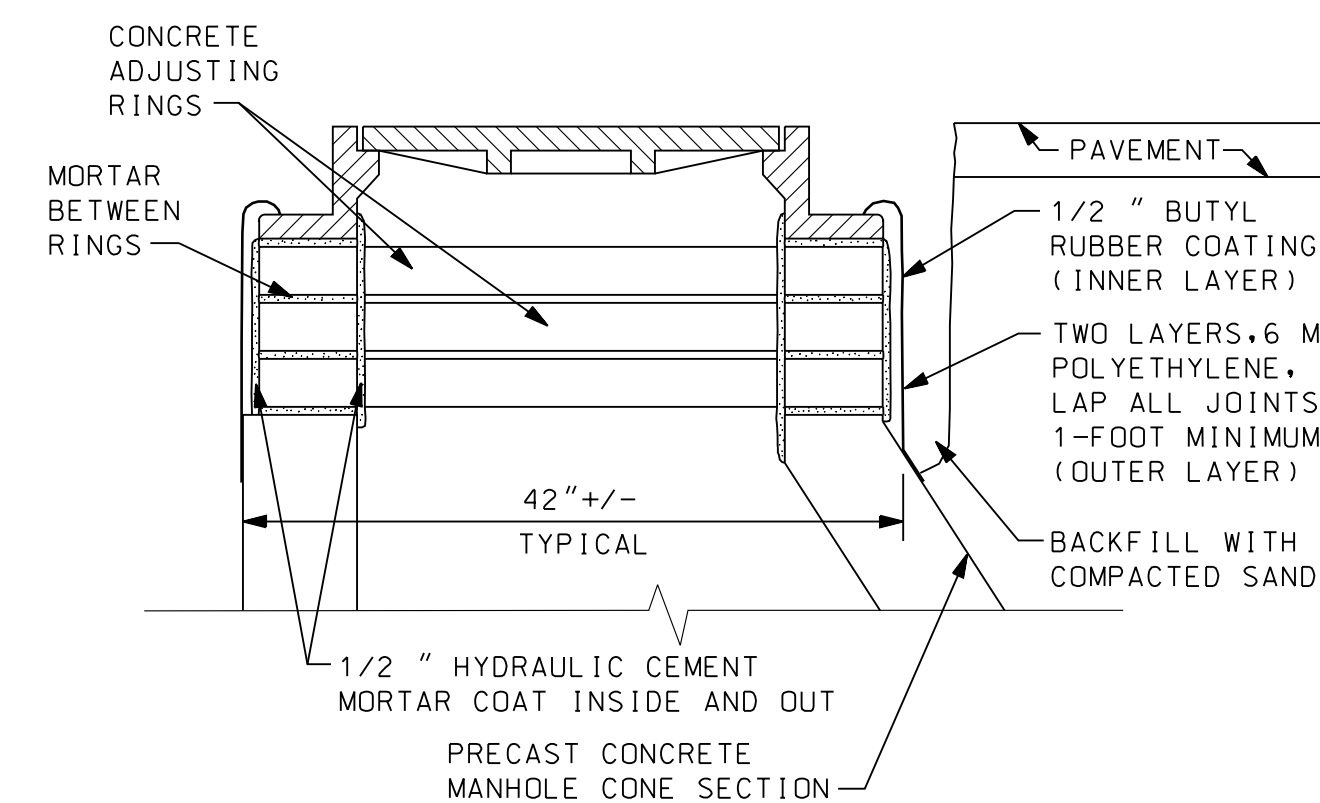
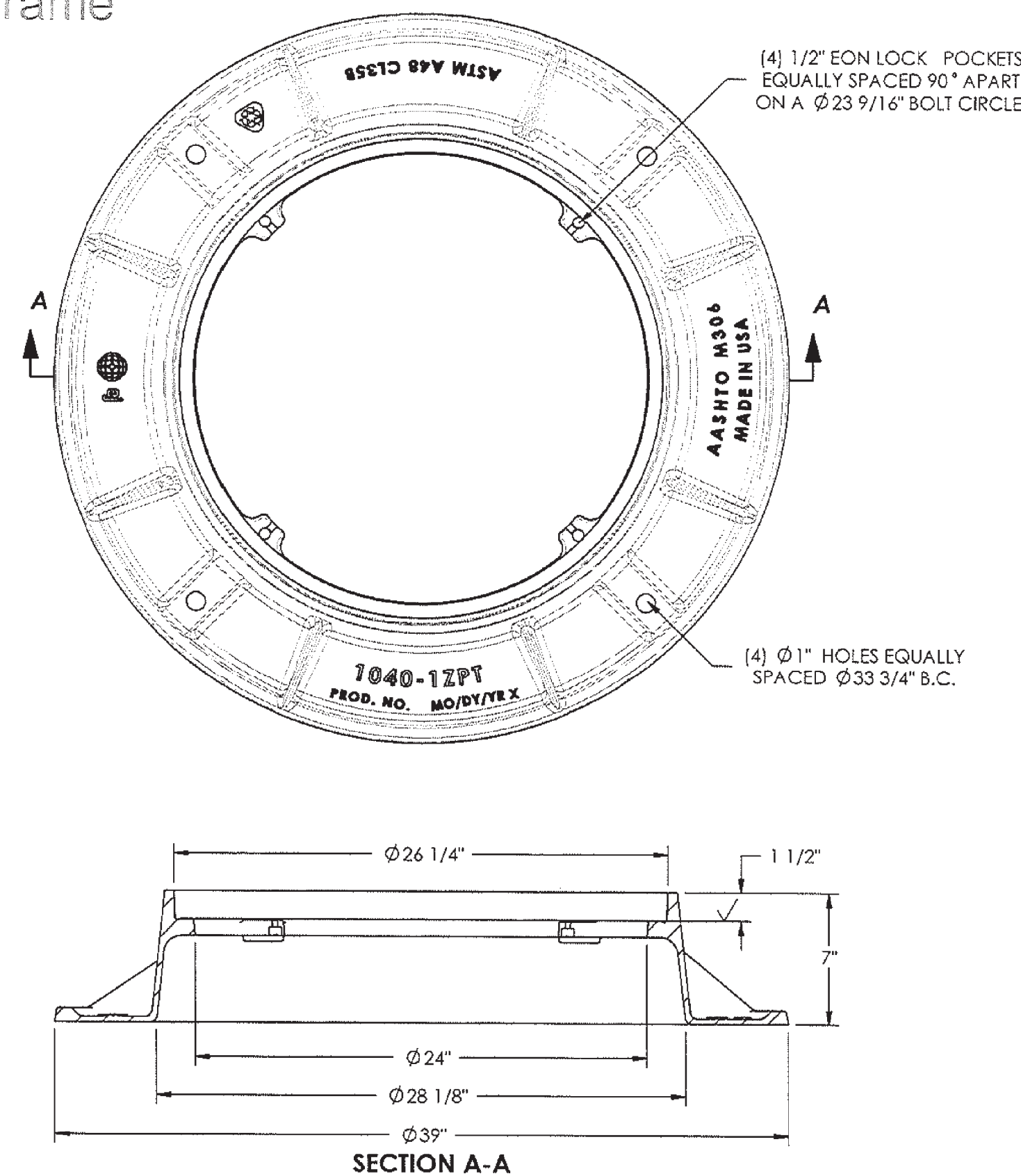
SANITARY SEWER NOTES  
CONTINUED

- ALL STUBS SHALL HAVE A WATER TIGHT BULKHEAD.
- INFILTRATION FOR ANY SECTION OF SEWERS BETWEEN MANHOLES SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE OF SEWER PER 24 HOURS AND SHALL INCLUDE THE INFILTRATION FROM ALL MANHOLES AND OTHER APPURTENANCES.
- ALL SEWERS SHALL BE SUBJECTED TO AIR, INFILTRATION OR EXFILTRATION TESTS, OR A COMBINATON OF SAME, PRIOR TO ACCEPTANCE. ALL SEWERS OVER 24-INCH DIAMETER SHALL BE SUBJECTED TO INFILTRATION TESTS. ALL SEWERS OF 24-INCH DIAMETER OR SMALLER, WHERE THE GROUND WATER LEVEL ABOVE THE TOP OF THE SEWER IS OVER SEVEN FEET, SHALL BE SUBJECTED TO INFILTRATION TESTS. ALL SEWERS OF 24-INCH DIAMETER OR LESS, WHERE THE GROUND WATER LEVEL ABOVE THE TOP OF THE SEWER IS SEVEN FEET OR LESS, SHALL BE SUBJECTED TO AIR TESTS OR EXFILTRATION TESTS.
- THE PROCEDURE FOR AIR TESTING OF SEWERS SHALL BE IN ACCORDANCE WITH ASTM C828, ASTM C924, OR ASTM F1417 AS APPLICABLE.
- NINE POINT MANDREL TEST IS REQUIRED FOR ALL FLEXIBLE PIPES AND MAY NOT BE PERFORMED UNTIL 30 DAYS AFTER INSTALLATION.
- IF A SEWER FAILS TO PASS ANY OF THE PREVIOUSLY DESCRIBED TESTS, THE CONTRACTOR SHALL DETERMINE THE LOCATION OF THE LEAKS, REPAIR THEM, AND RETEST THE SEWER. THE TEST SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED. TELEVISION INSPECTION SHALL BE CONSIDERED COMPLETED WHEN THE NECESSARY CONSTRUCTION REPAIRS HAVE BEEN MADE AND THE INSTALLATION RETELEVIEWED AND THE SYSTEM IS ACCEPTABLE FOR THE TESTING PHASE.
- THE CONTRACTOR SHALL PROVIDE FOR TELEVISION INSPECTION OF THE SANITARY SEWER LINES. ALL SANITARY LEADS FOR COMMERCIAL AND INDUSTRIAL SITES OVER 100 FEET IN LENGTH MUST BE AIR TESTED AND TELEVISION INSPECTION COMPLETED.
- ALL SEWER SHALL BE TELEVIEWED, WITH RESULTS APPROVED BY THE COMMUNITY PRIOR TO PLACING THE SEWER IN SERVICE. COPIES OF THE TELEVISION RECORDING (DVD FORMAT) NEED TO GO TO THE COMMUNITY AND THE ENGINEER PRIOR TO THE CONTRACTOR LEAVING THE SITE. THE TELEVISION INSPECTION MUST BE WITNESSED BY THE OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHOULD ARRANGE FOR, ENGAGE, AND PAY ALL EXPENSES INVOLVED FOR THE SERVICES OF A COMPETENT COMPANY TO PERFORM THIS TELEVISION INSPECTION.
- THE TELEVISION INSPECTION SHALL BE OBSERVED BY REPRESENTATIVES OF THE OWNER, ENGINEER, AND THE CONTRACTOR. ANY TELEVISION VIEWING PERFORMED IN THE ABSENCE OF THE ENGINEER WILL NOT BE CONSIDERED AS A PART OF THE FINAL INSPECTION.

SANITARY SEWER NOTES CONTINUED  
CONTINUED

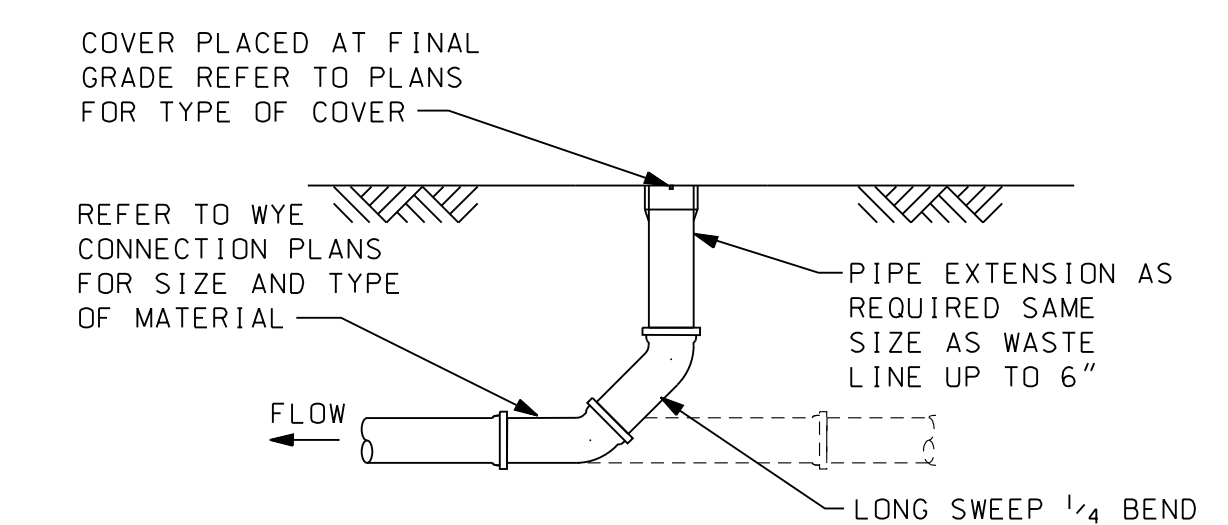
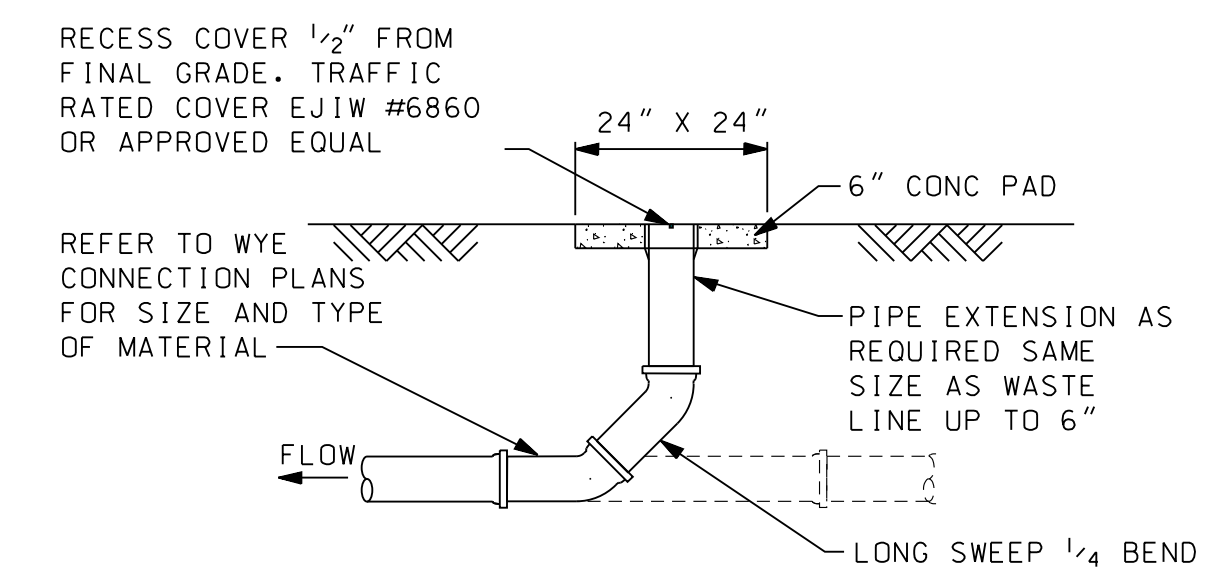
- THE INSPECTION SHALL INVOLVE THE VISUAL OBSERVATION BY CLOSED CIRCUIT TELEVISION OF ALL SANITARY SEWER INSTALLED AS PART OF THIS CONTRACT. THE INSPECTION SHALL BE PERFORMED AT A RATE OF SPEED WHICH WILL ALLOW EXAMINATION OF ALL POINTS OF INFILTRATION, CRACKED OR CRUSHED PIPE, DEFECTIVE JOINTS, MISALIGNMENT IN LINE OR GRADE, LOCATION OF ALL WYE OPENINGS AND ANY DEFECTS OR ITEMS OF POOR WORKMANSHIP WHICH MAY APPEAR. THE VIDEO SHALL INCLUDE CLEARLY AUDIBLE COMMENTARY FROM THE OPERATOR. THE VIDEO SHALL INCLUDE AN ODDMETER MEASURED TO THE NEAREST 0.1 FEET FROM THE MANHOLE. ANY ITEMS WHICH, IN THE OPINION OF THE ENGINEER, REQUIRE REPAIR SHALL BE PRECISELY LOCATED AND PHOTOGRAPHED ALONG WITH A DETAILED STATEMENT OF THE CONDITION. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO REPAIR ALL SUCH DEFECTS INCLUDING EXCESSIVE INFILTRATION AT ANY SPECIFIC LOCATION. EVEN THOUGH THE INFILTRATION LIMITS AS HEREIN SPECIFIED HAVE NOT BEEN EXCEEDED FOR THE ENTIRE LENGTH OF SEWER BEING INSPECTED, FOLLOWING COMPLETION OF THE REPAIR, THE ENGINEER AT THEIR DISCRETION, MAY REQUIRE A SECOND TELEVISION INSPECTION OF ANY REPAIRED AREAS. THE CONTRACTOR SHALL ARRANGE FOR AND PAY ALL COSTS INVOLVED IN PERFORMING THIS RE-INSPECTION.
- THERE SHALL BE NO DISCHARGE OF UNTREATED SANITARY SEWAGE TO THE SURFACE WATERS OF THE STATE DUE TO CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
- CONTRACTOR SHALL NOTIFY WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES, ENGINEERING DIVISION PERMIT OFFICE, 48 HOURS PRIOR TO START OF CONSTRUCTION AT (734) 595-6507, EXTENSION 2009.

1040 Frame



NOTE:  
THIS DETAIL TO BE USED IN CONCRETE OR BITUMINOUS PAVED AREAS. ALL OTHER AREAS SHALL USE BOLT DOWN FRAMES WITH RUBBER O-RINGS AS SHOWN ON MANHOLE DETAILS.

EXTERNAL FRAME SEAL DETAIL  
FOR PAVED AREAS ONLY



CLEAN - OUT  
(LOCATED IN GREENBELT AREA)

PROJECT MANAGER: FIELD BOOK INFORMATION: NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: 20251 Northline Rd. PO Box 10 Taylor, MI 48180 www.wadefirm.com

REV.	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

20251 Northline Rd.  
PO Box 10  
Taylor, MI 48180  
www.wadefirm.com

CITY OF TAYLOR  
STANDARD SANITARY SEWER DETAILS (SS-2)

ISSUED FOR: DATE: BY:

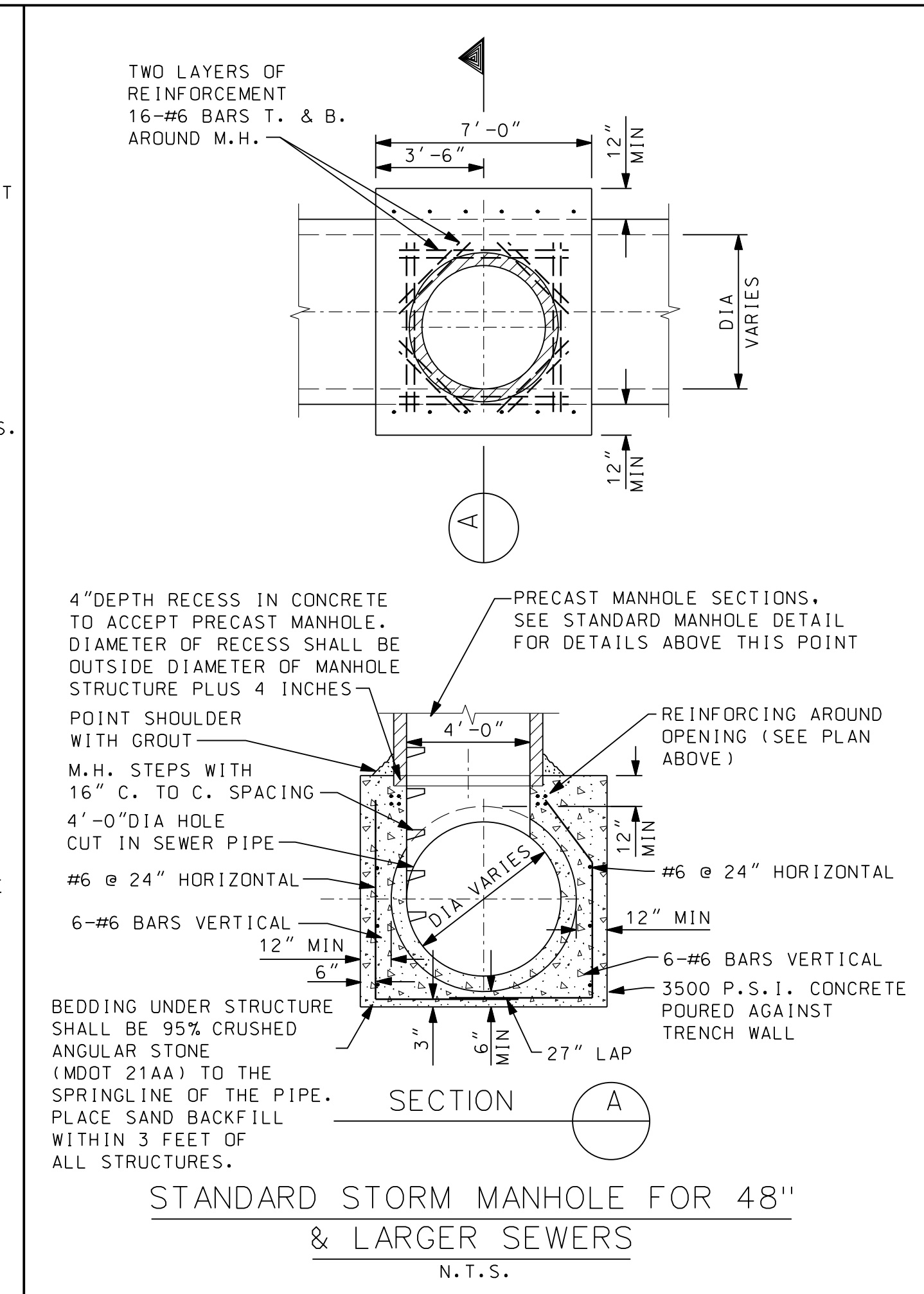
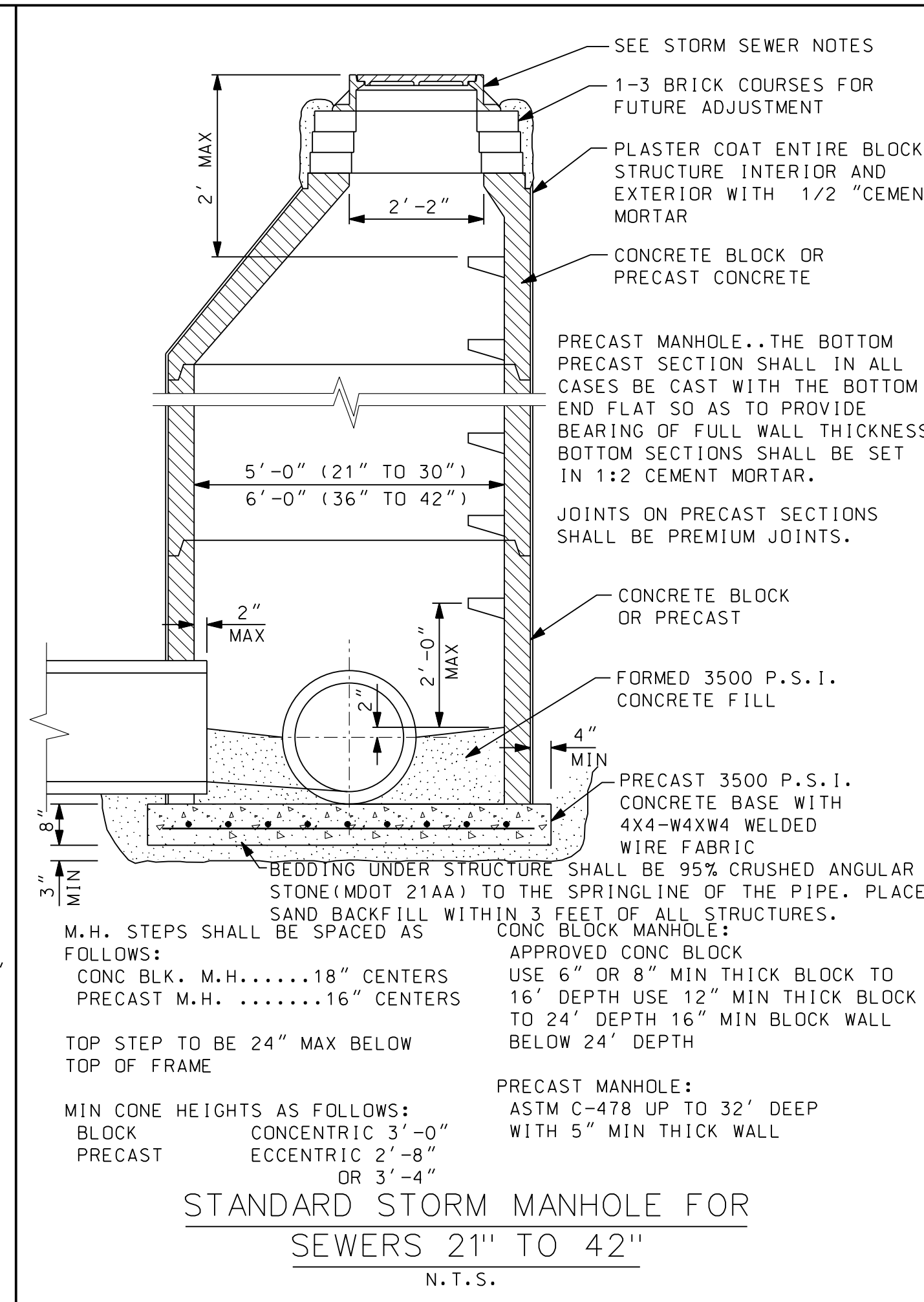
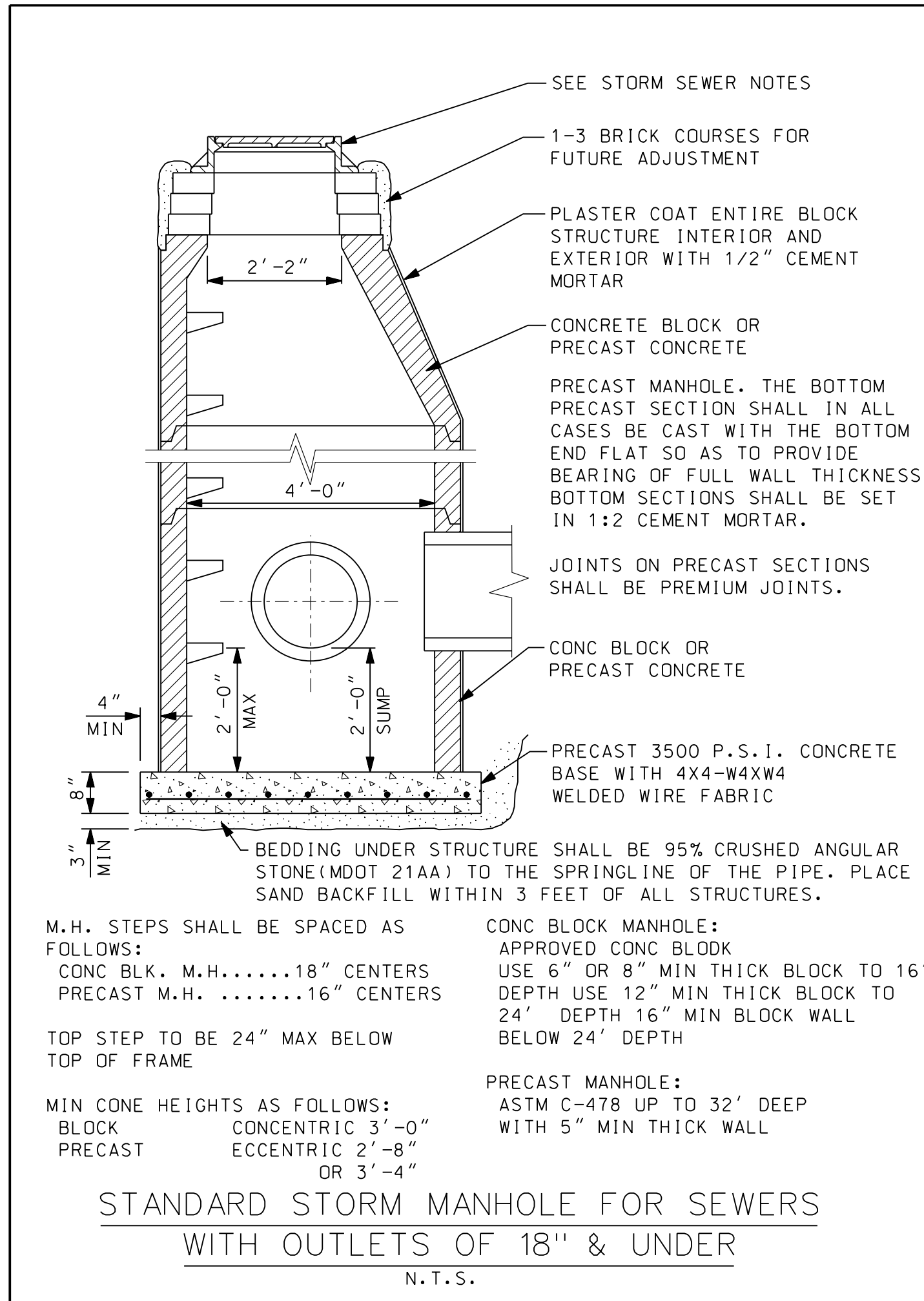
JOB NO.

SHEET  
SS-2

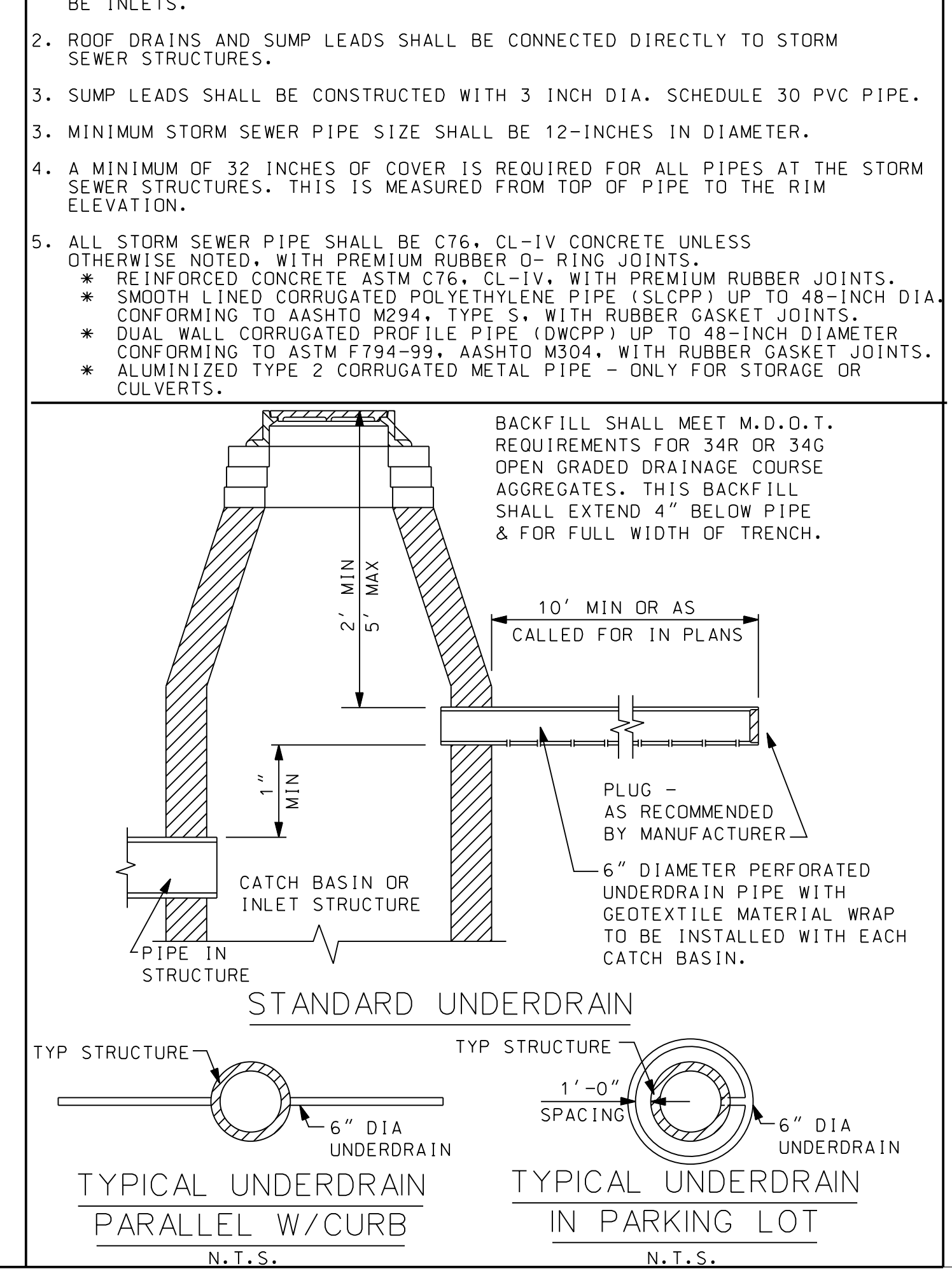
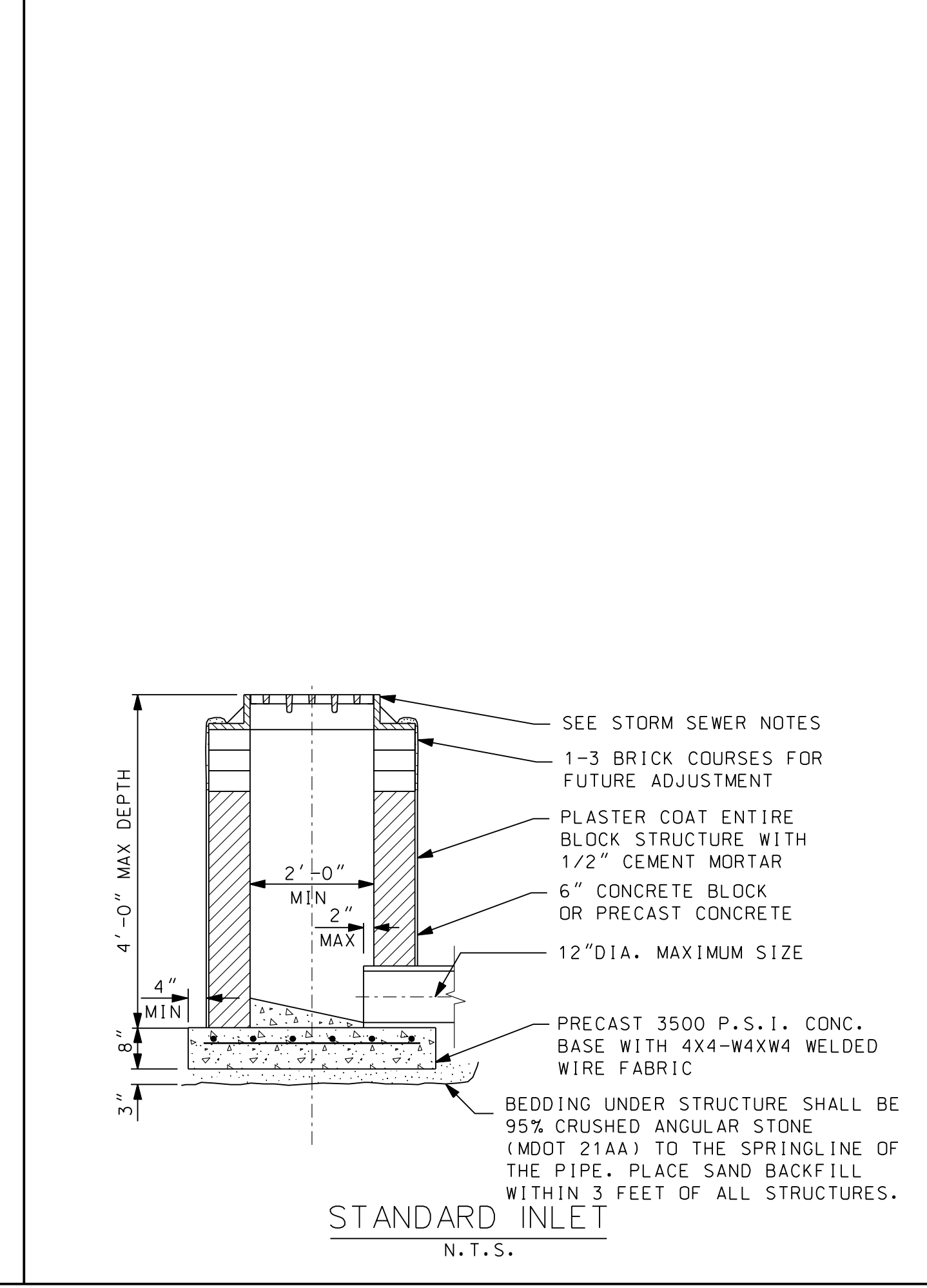
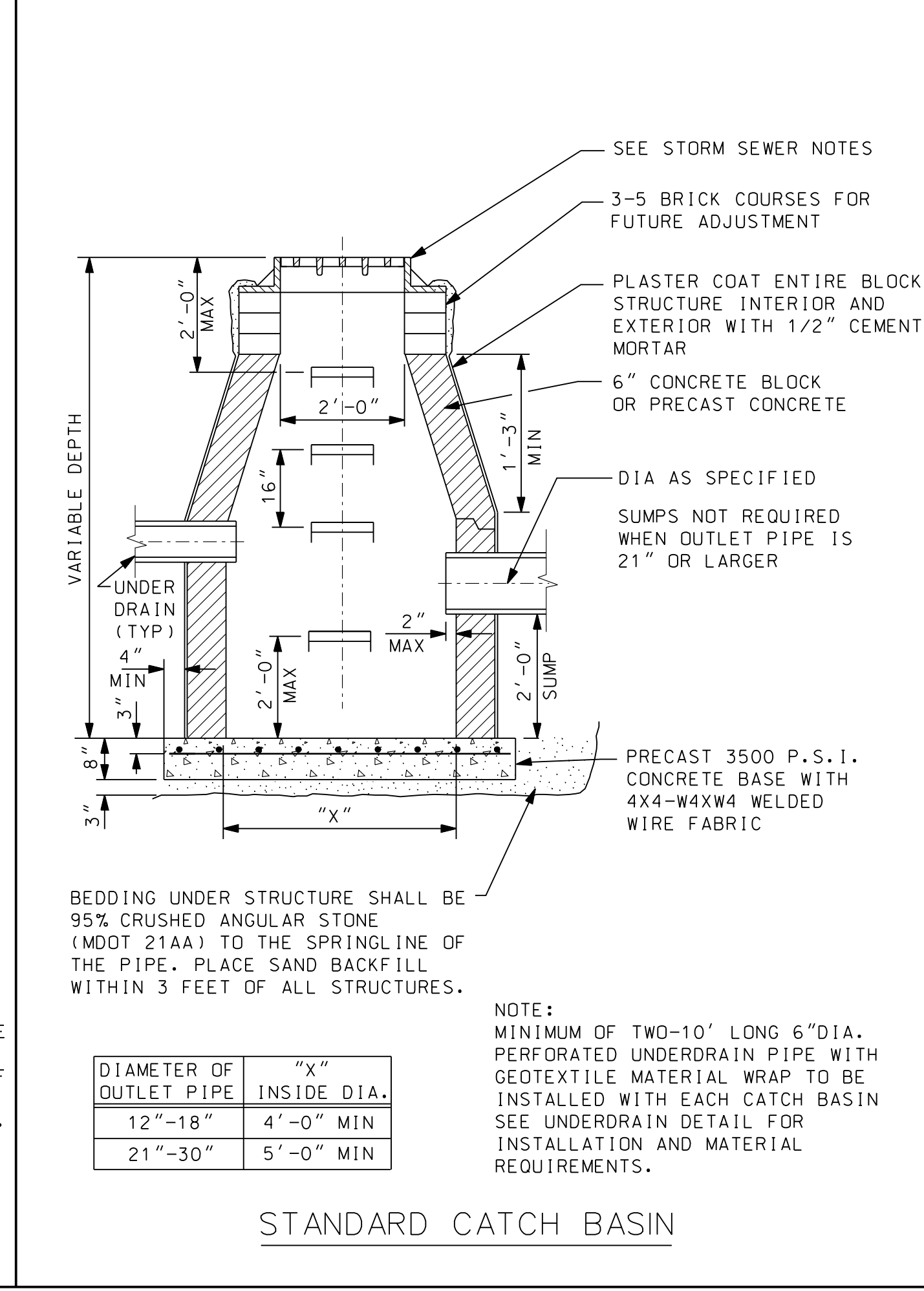
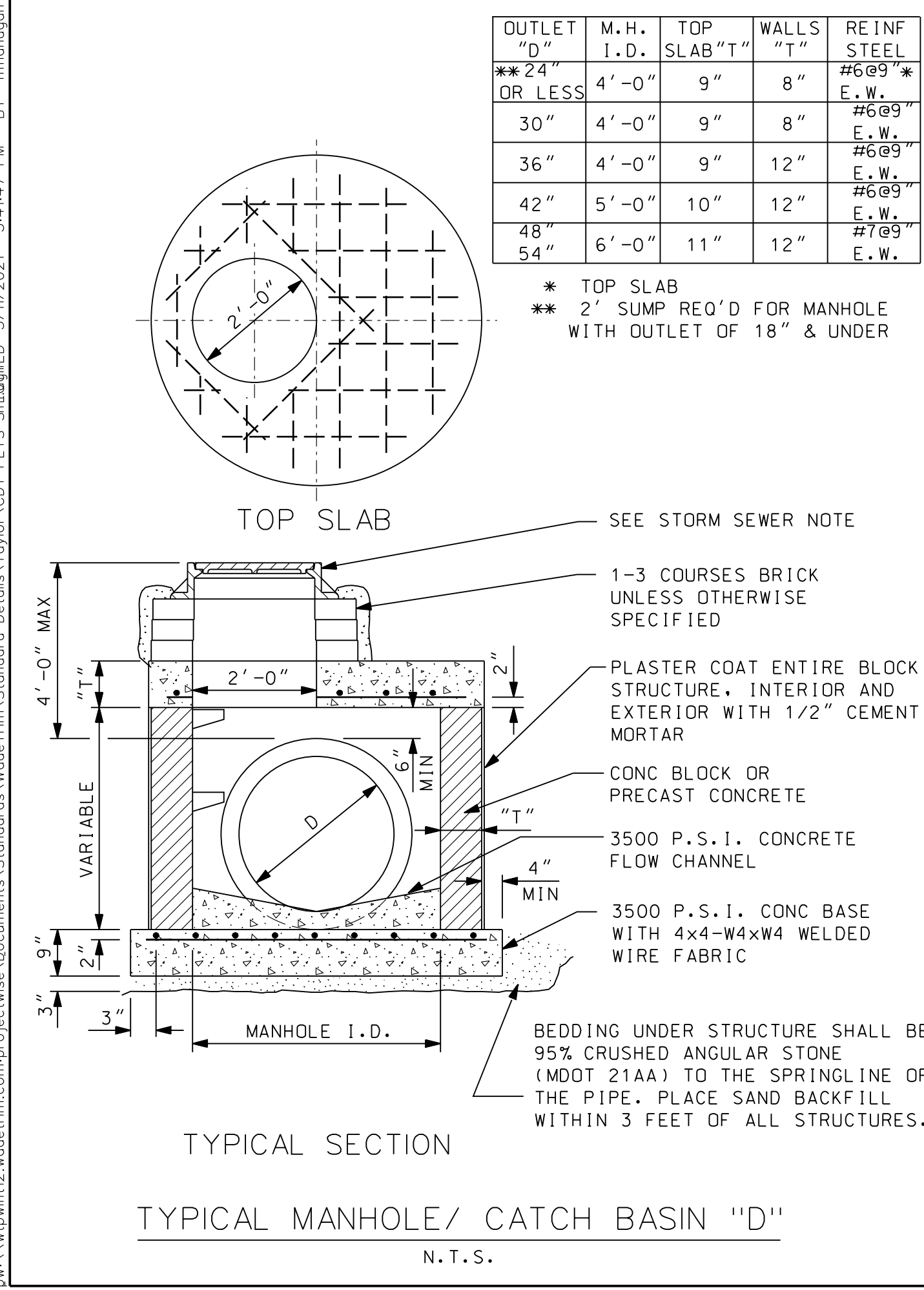
© Wade Trim, Inc. STANDARD SANITARY SEWER DETAILS



PROJECT MANAGER: ...  
 FIELD BOOK INFORMATION: ...  
 STANDARD STORM SEWER DETAILS (ST-1)

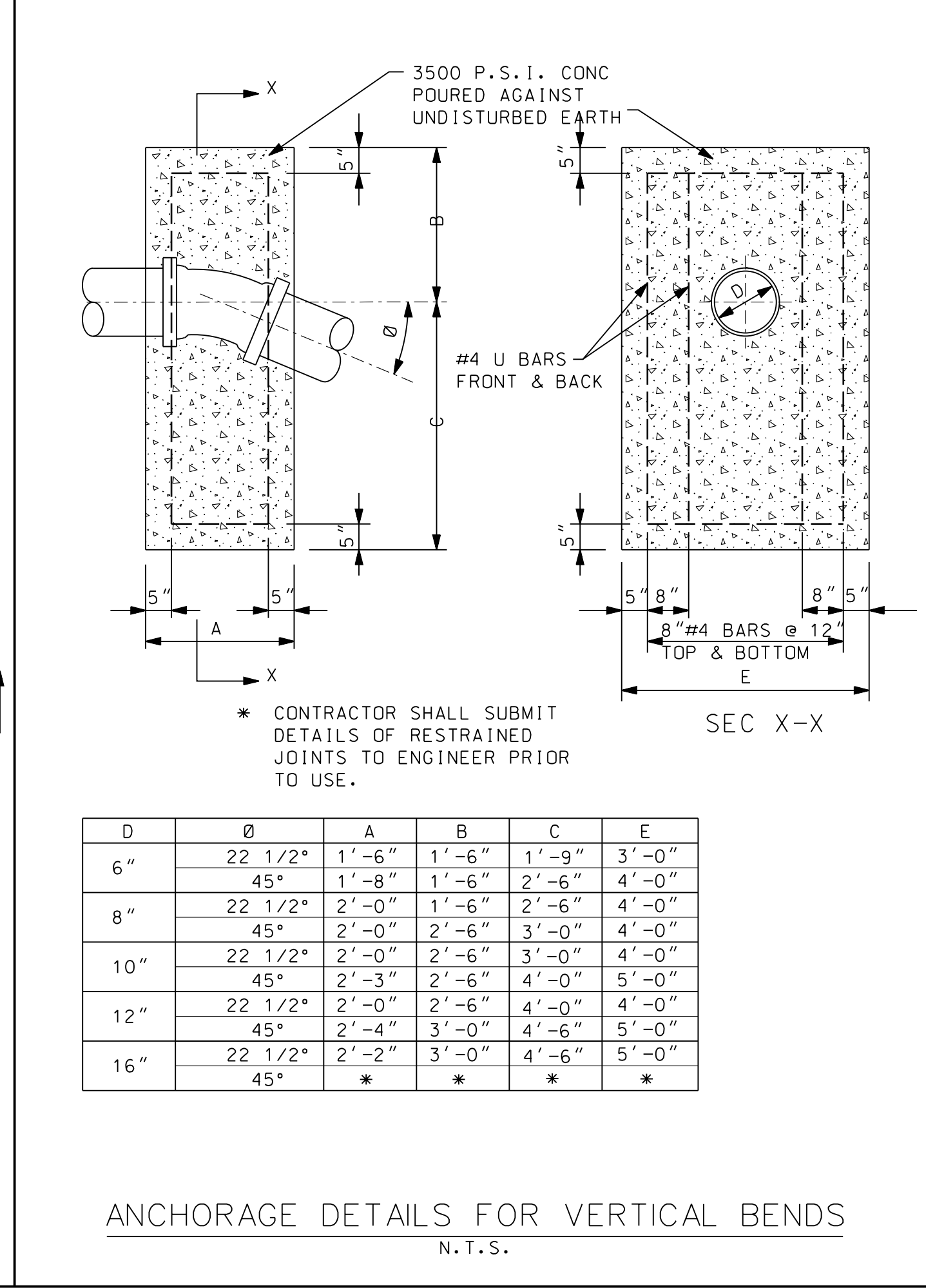
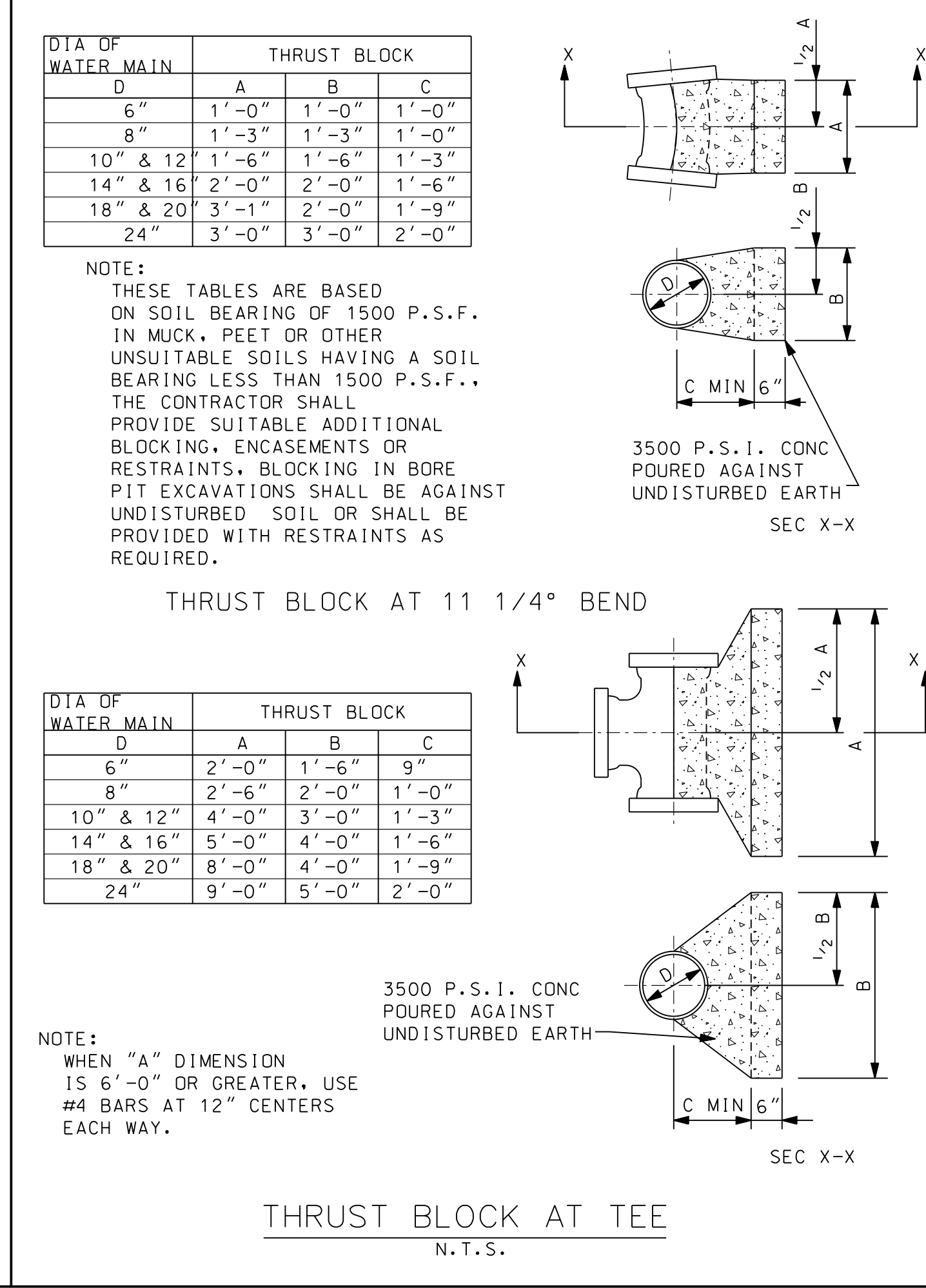
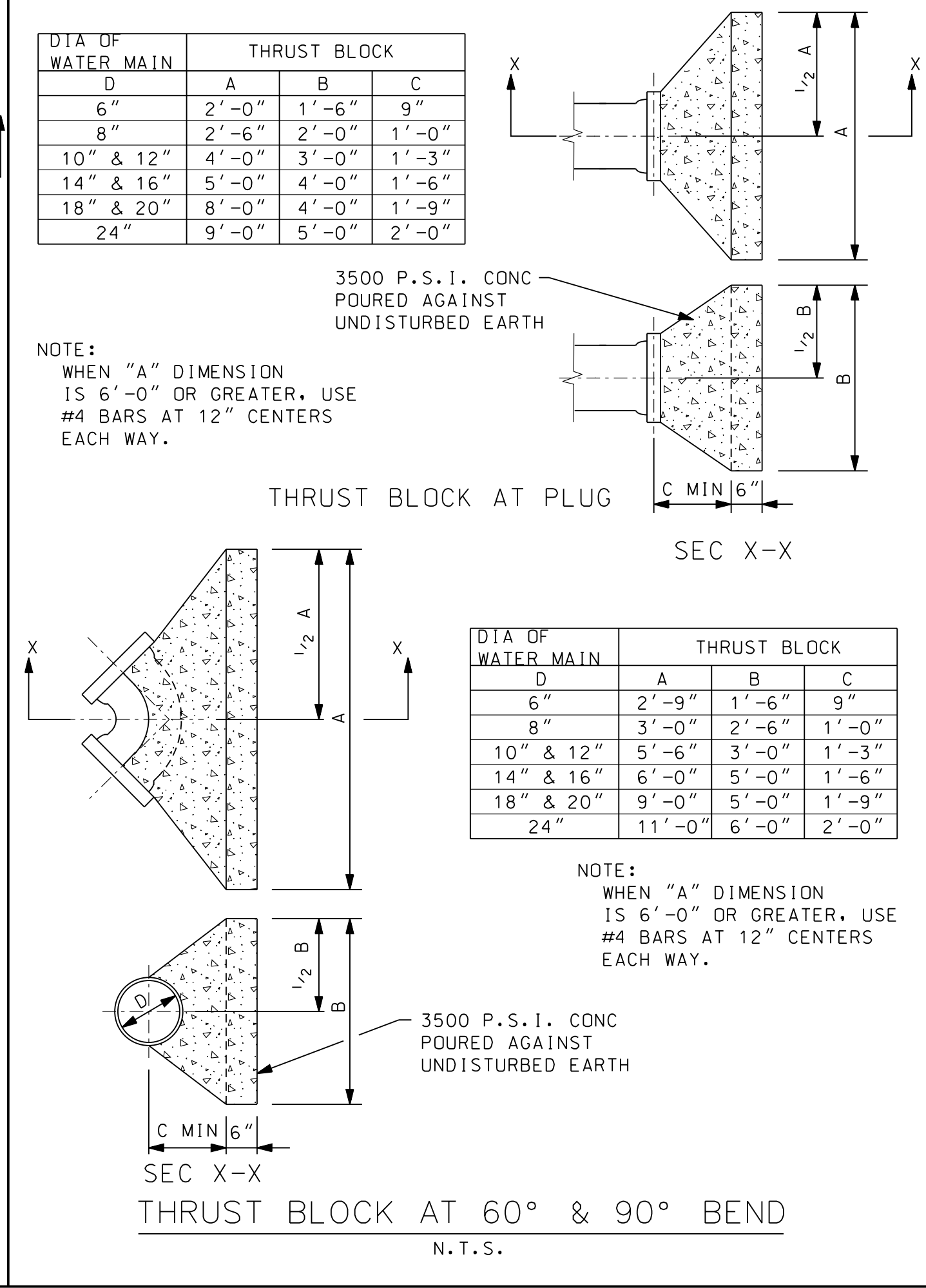
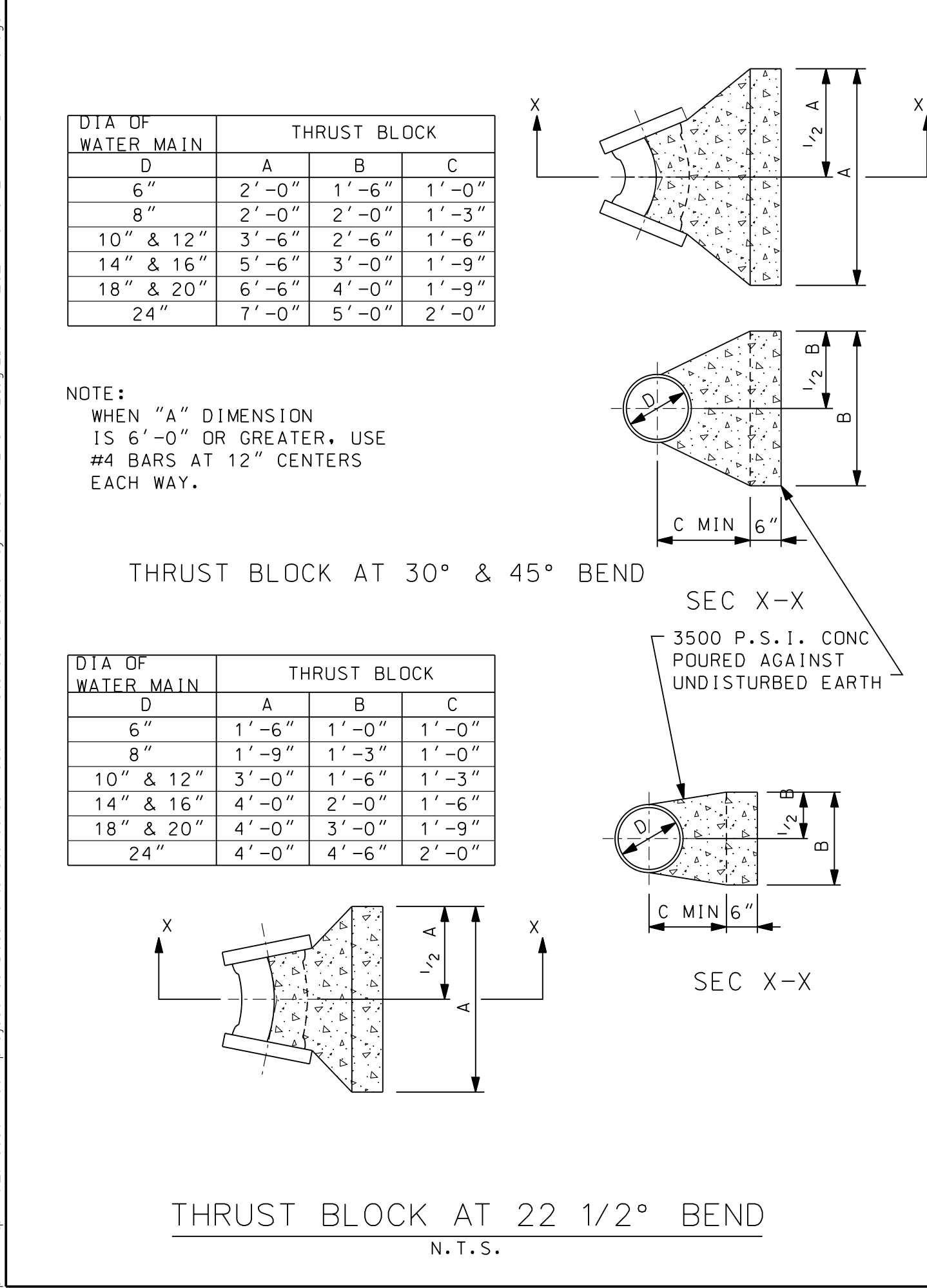
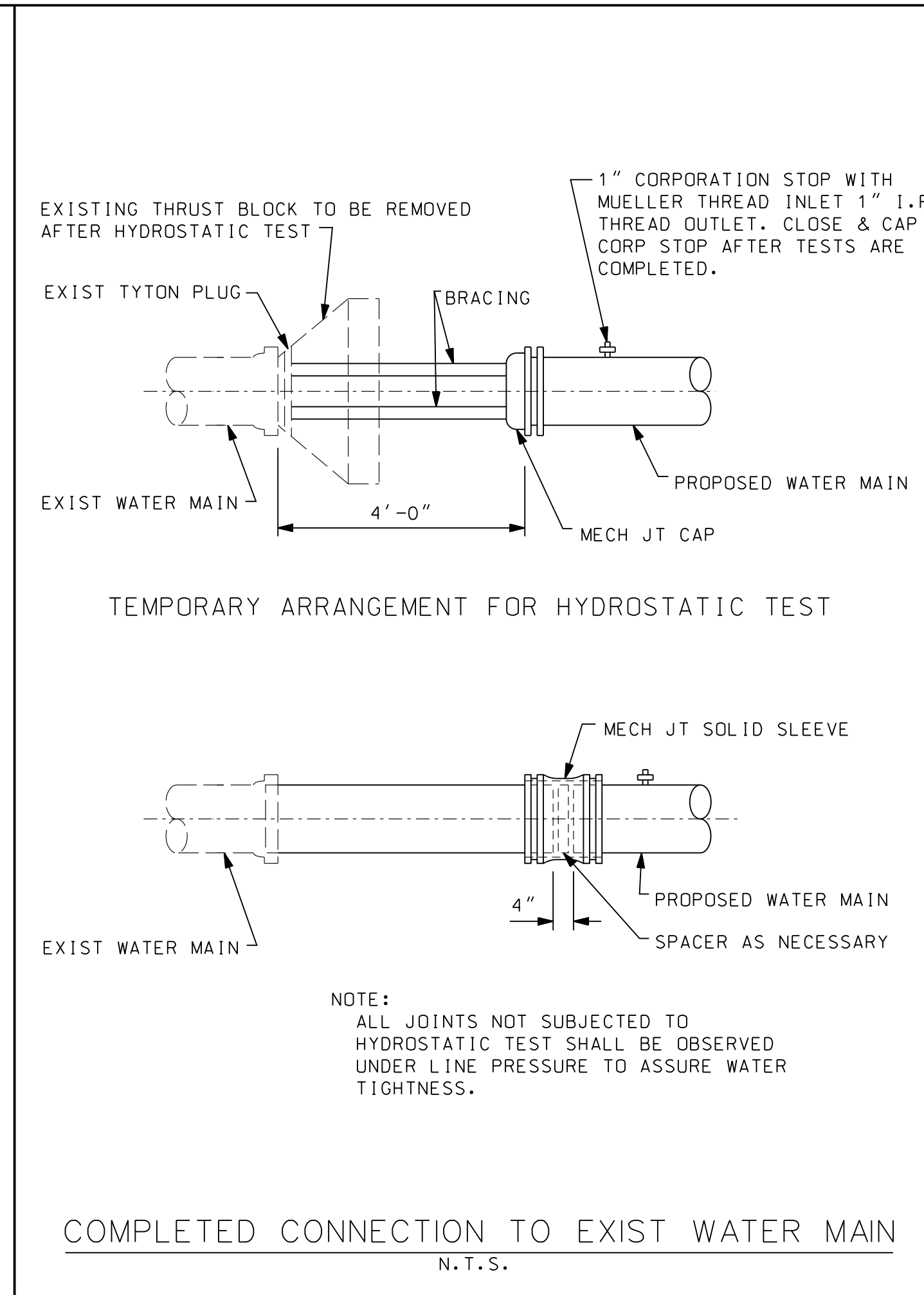
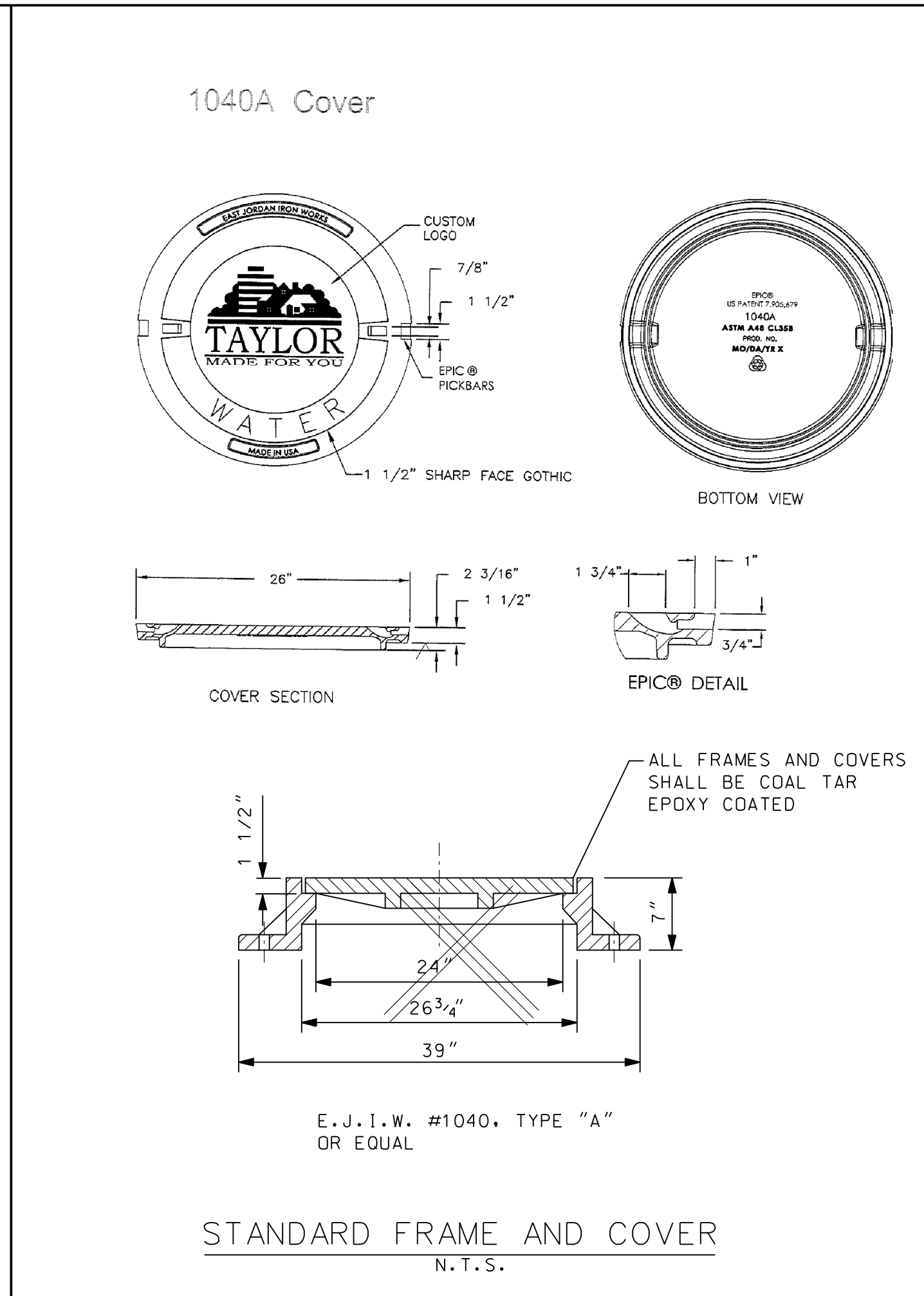
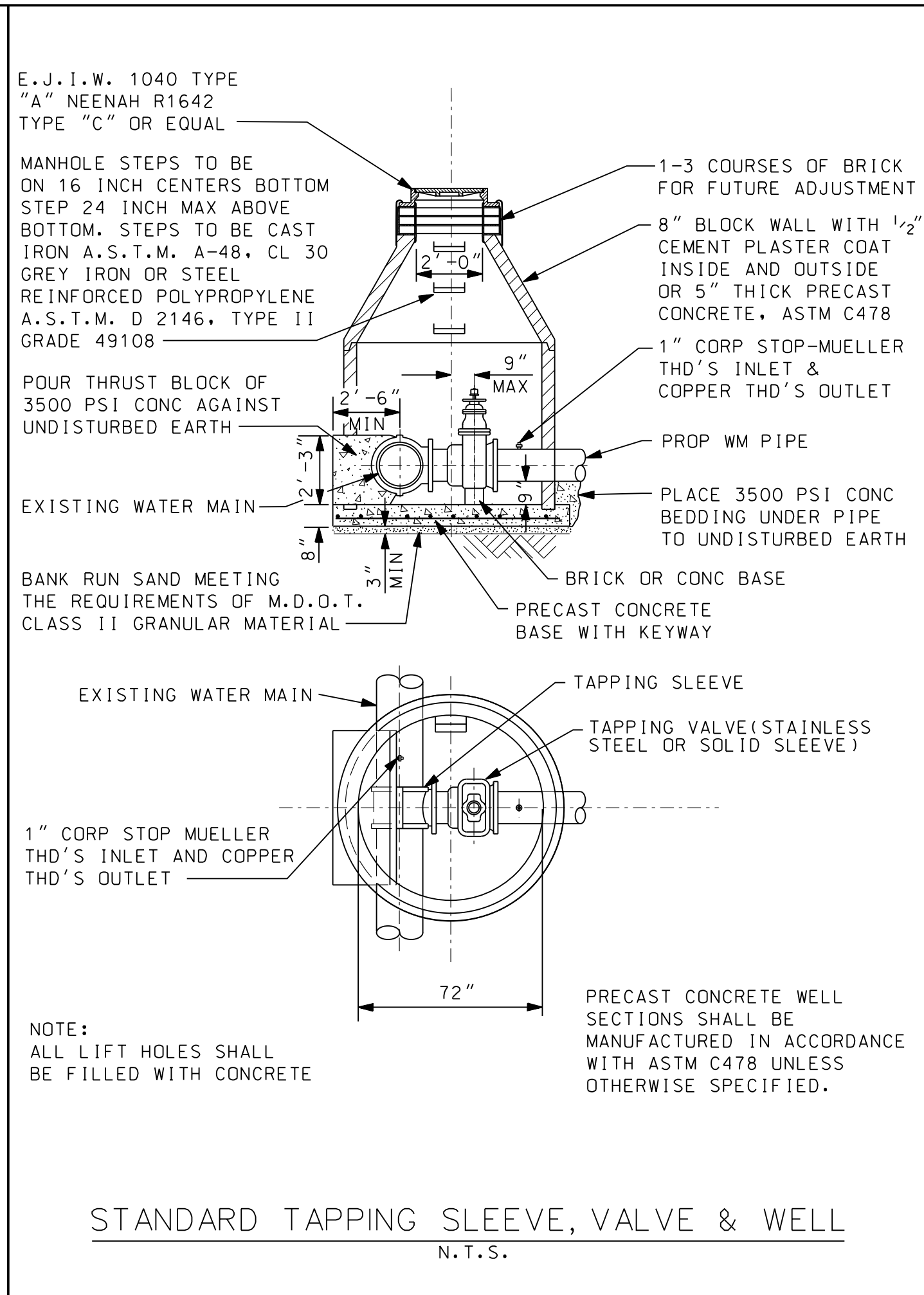
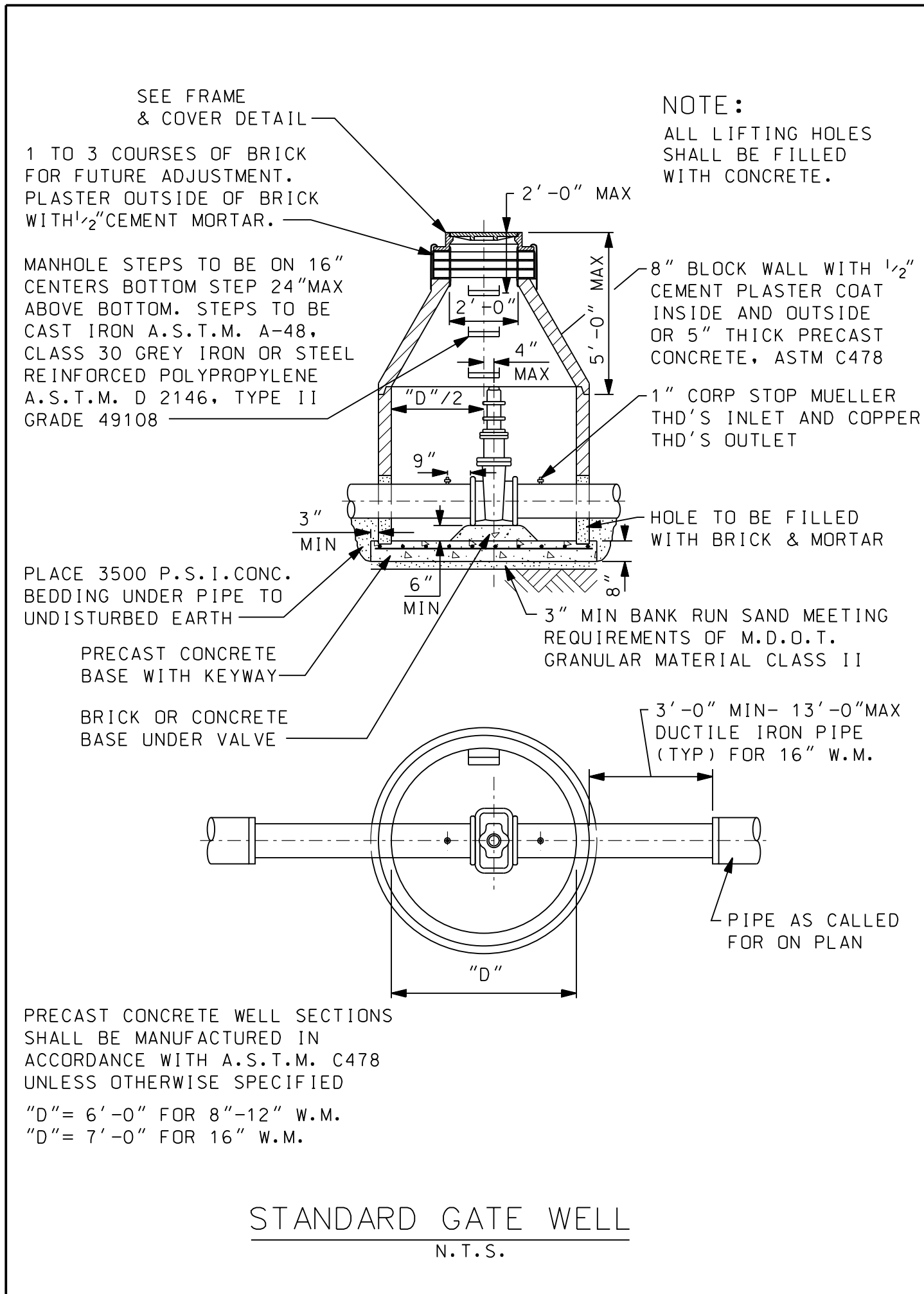


- ### STORM SEWER NOTES
- ALL STORM SEWER CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND GENERAL SPECIFICATION OF THE AGENCY OR AGENCIES HAVING JURISDICTION OF THE STORM SEWER AND CONSTRUCTION AREA.
  - DETAILS ARE FOR STRUCTURES WITH NO MORE THAN TWO PIPES, 180° APART. LARGER DIAMETER STRUCTURES MAY BE REQUIRED FOR DIFFERENT CONFIGURATIONS.
  - ALL STRUCTURES REQUIRE A MINIMUM OF 8-INCHES OF WALL BETWEEN PIPE OPENINGS. LARGER DIAMETER STRUCTURES MAY BE REQUIRED WHERE PIPE ENTERING THE STRUCTURE ARE LESS THAN 90° APART IN ANY DIRECTION.
  - ALL CASTING RIMS SHALL BE SET TO GRADE OR AS SHOWN ON THE PLANS.
  - NO MANHOLES OR OTHER STRUCTURES MAY BE INSTALLED WITHIN DRIVEWAYS, DRIVE APPROACHES, OR SIDEWALKS.
  - ALL CATCH BASIN STORM PIPE SHALL BE 12-INCH DIAMETER C76, CL-IV CONCRETE UNLESS OTHERWISE NOTED.
  - MANHOLE STEPS TO BE GRAY IRON OR STEEL REINFORCED POLYPROPYLENE ASTM 2146, TYPE II, GRADE 49108.
  - CATCH BASIN AND INLET FRAME AND COVERS SHALL BE SPECIFIED AS FOLLOWS:
    - WHEN LOCATED IN PAVEMENT GUTTER LINE, FRAME AND COVER SHALL BE EJ 5000Z4, WITH 5000M4 GRATE.
    - WHEN LOCATED IN PAVED AREAS OTHER THAN GUTTER LINE, FRAME SHALL BE EJ 1040-12PT AND COVER 1040AGS (STORM) WITH CITY LOGO.
    - WHEN LOCATED IN YARD AREAS, FRAMES SHALL BE EJ 1040 WITH TYPE "N" OR "M1" COVER, OR EQUIV.
  - DIFFERENTIAL OF EXCAVATION AROUND EXISTING MANHOLES SHALL NOT EXCEED SIX FEET.
  - PLACE SAND BACKFILL WITHIN THREE FEET OF ALL STRUCTURES.
  - ALL RIGID STORM SEWER PIPE SHALL HAVE CLASS "R-B" BEDDING, ALL FLEXIBLE PIPE SHALL BE CLASS "F-1" BEDDING, UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET M01 FOR BEDDING DETAILS.
  - ALL PRECAST PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478.
  - ALL DRAINAGE STRUCTURES LOCATED WITHIN PAVEMENT MUST HAVE UNDER DRAIN AS SHOWN ON THIS SHEET.



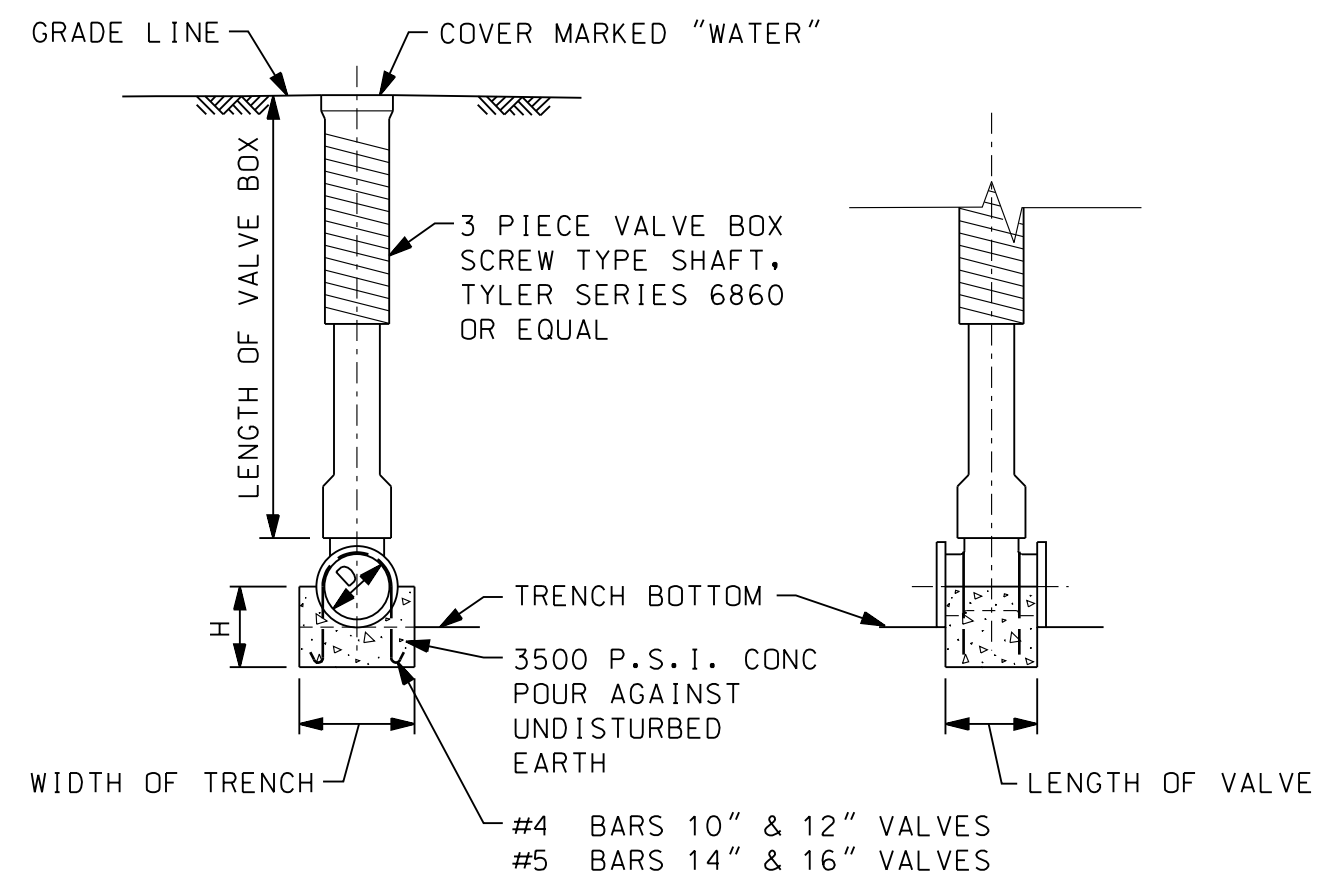
CITY OF TAYLOR  
 STANDARD STORM SEWER DETAILS (ST-1)  
 WADE TRIM  
 26251 Northline Rd.  
 PO Box 10  
 Taylor, MI 48180  
 www.wadeftrim.com  
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 ISSUED FOR: DATE: BY:  
 JOB NO.  
 SHEET  
 ST-1  
 STANDARD STORM SEWER DETAILS

PROJECT MANAGER: [unreadable] | FIELD BOOK INFORMATION: [unreadable] | STANDARD WATER MAIN DETAILS (WM-1) | 3/17/2021 3:43:12 PM BY: m/iamason



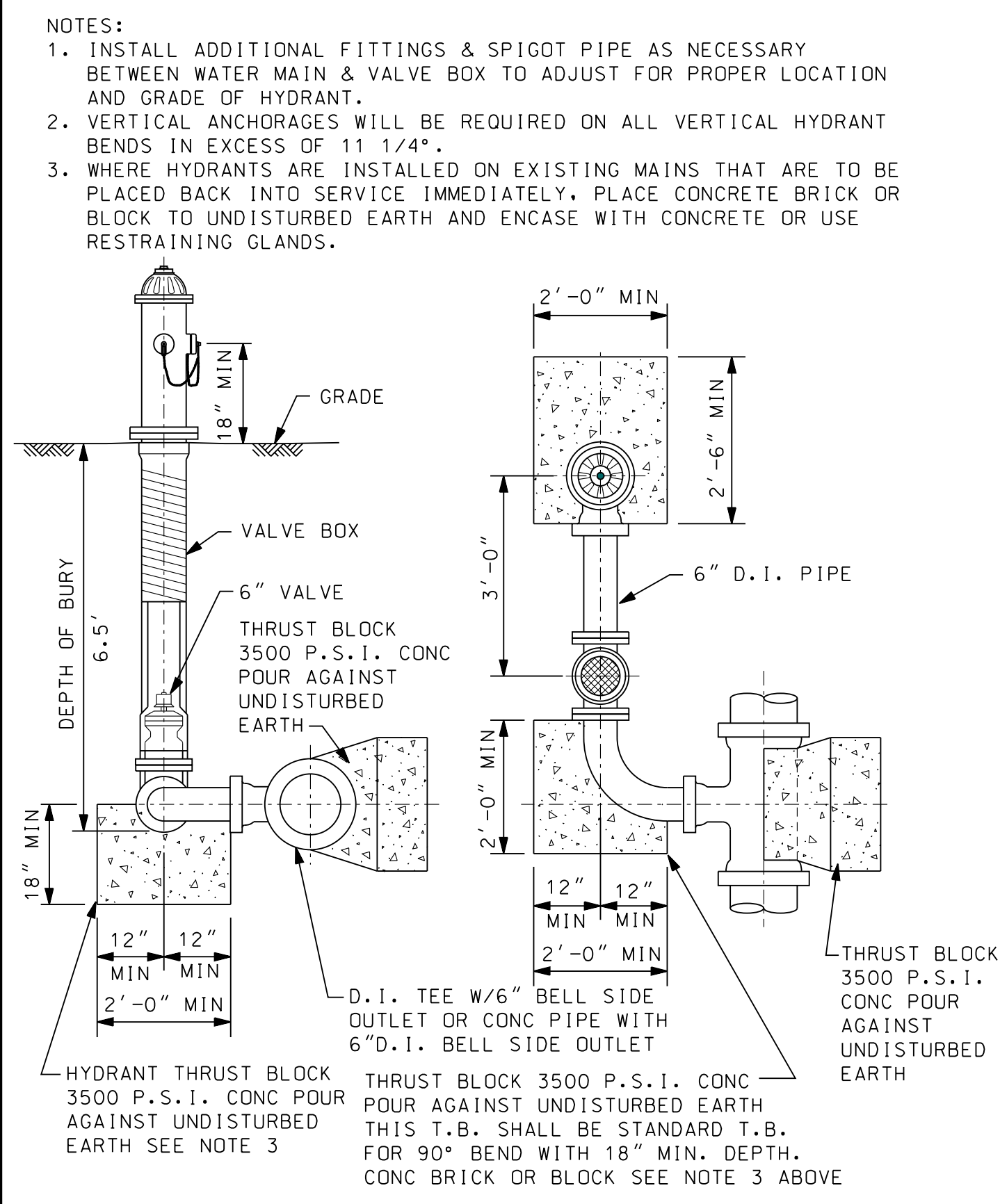
CITY OF TAYLOR  
 STANDARD WATER MAIN DETAILS (WM-1)  
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 ISSUED FOR: [ ] DATE: [ ] BY: [ ]  
 JOB NO. [ ]  
 SHEET  
**WM-1**

PROJECT MANAGER: m/maison  
 FIELD BOOK INFORMATION: 3/11/2021 3:44:15 PM BY: m/maison  
 PROJECT: 20251 Nepheline Rd. PO Box 10 Taylor, MI 48180 www.wadetrims.com

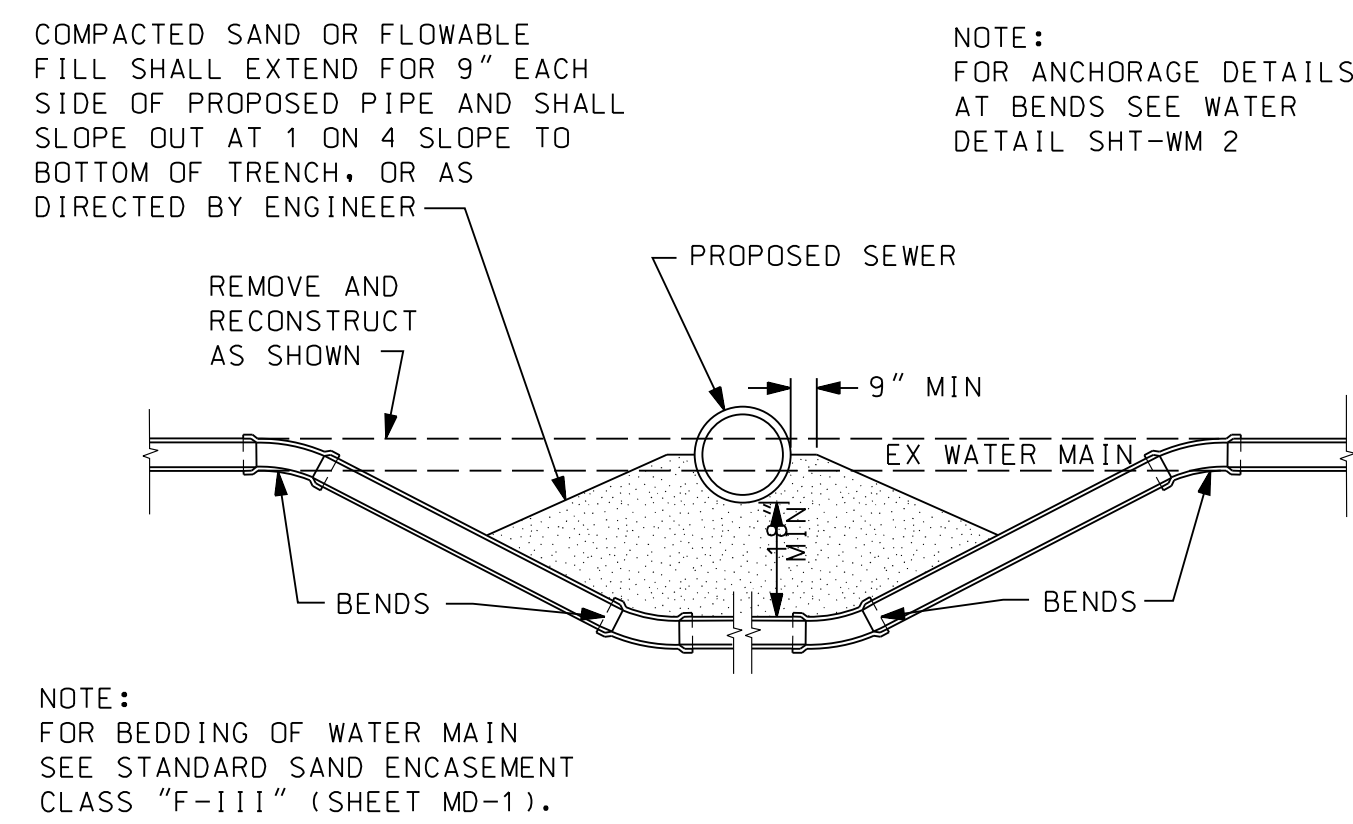


SIZE OF PIPE	H
6"	6"
8"	8"
10"	10"
12"	12"

VALVE BLOCK AND BOX DETAIL  
N.T.S.

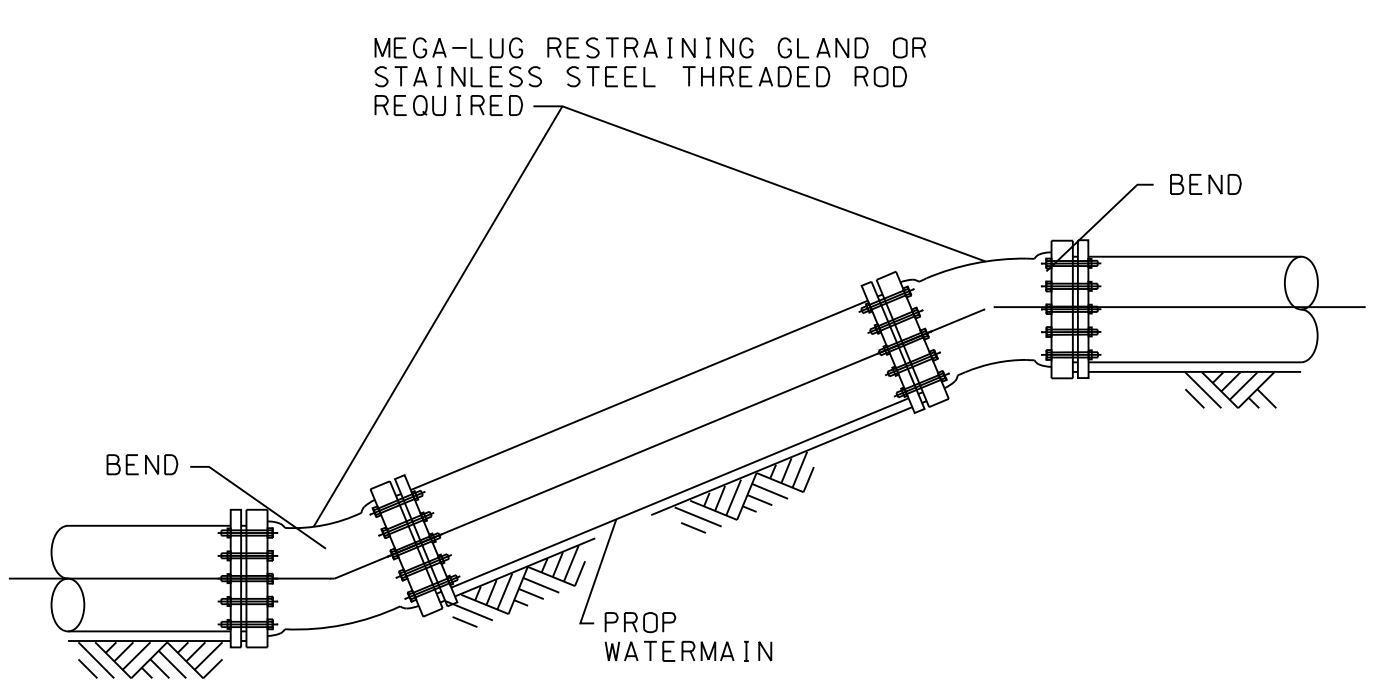


STANDARD FIRE HYDRANT ASSEMBLY  
CLOSE COUPLE TYPE  
N.T.S.

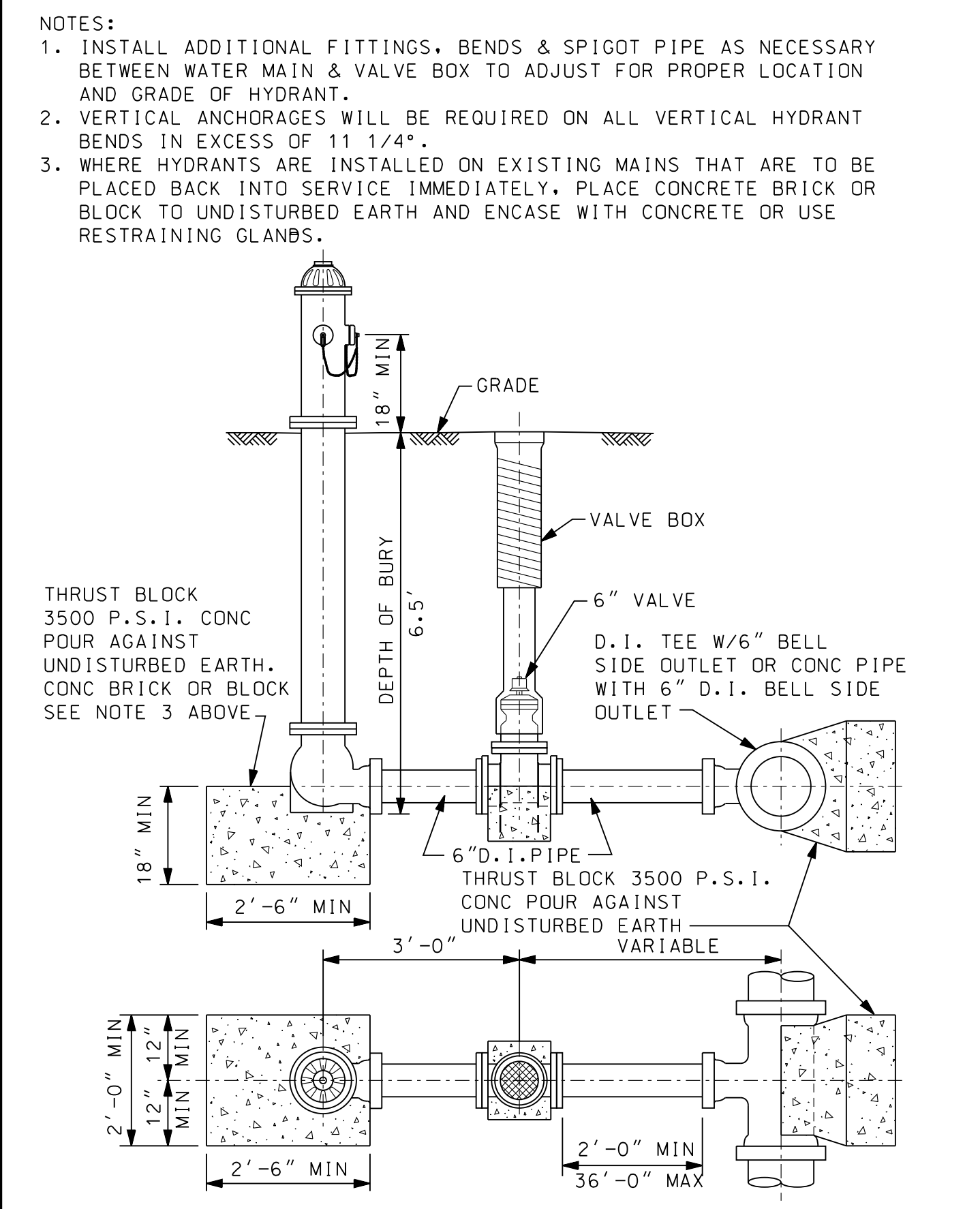


RELOCATION OF WATER MAIN  
N.T.S.

- ### WATER MAIN NOTES
- ALL WATER SYSTEM CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND GENERAL SPECIFICATION OF THE AGENCY OR AGENCIES HAVING JURISDICTION OF THE WATER SUPPLY SYSTEM AND CONSTRUCTION AREA.
  - WATER MAINS SHALL NOT BE CONSTRUCTED UNDER SIDEWALKS OR ROAD PAVEMENT AREAS.
  - ALL SURFACE STRUCTURES, SUCH AS HYDRANTS, GATE WELLS AND VALVE BOXES SHALL BE SET TO GRADE OR AS INDICATED ON THE PLANS.
  - FIRE HYDRANTS ARE TO BE INSTALLED PLUMB AND HAVE THEIR NOZZLES AS DETERMINED BY THE ENGINEER.
  - ALL FITTINGS SHALL BE DUCTILE IRON, PRESSURE RATING 350 P.S.I., CONFORMING TO ANSI/AWWA C 153/A21.53 COMPACT FITTINGS WITH DOUBLE THICKNESS CEMENT MORTAR LINING AND BITUMINOUS ENAMEL COATING INSIDE AND OUTSIDE.
  - GATE WELLS AND OTHER WATER MAIN STRUCTURES SHALL NOT BE CONSTRUCTED IN DRIVEWAYS, DRIVE APPROACHES, OR SIDEWALKS.
  - PROVIDE 7-FOOT MINIMUM COVER BELOW EXISTING PAVEMENT CENTERLINE OR GROUND AT WATER MAIN LOCATION, WHICHEVER IS LOWEST, WHEN PROPOSED WATER MAIN IS WITHIN 32 FEET OF CENTERLINE ON SECTION LINE ROADS, OR WITHIN 19 FEET OF CENTERLINE ON 1/4 LINE ROADS. SEVEN FEET COVER SHALL ALSO BE REQUIRED AT OTHER LOCATIONS AS NOTED ON THE PLAN. PROVIDE 6-FOOT MINIMUM COVER BELOW EXISTING ROAD CENTERLINE OR GROUND AT WATER MAIN LOCATION, WHICHEVER IS LOWEST, AT ALL OTHER LOCATIONS UNLESS OTHERWISE NOTED.
  - PLACE NATURAL BANK RUN SAND BACKFILL WITHIN THREE FEET OF ALL STRUCTURES, INCLUDING VALVE WELLS, FIRE HYDRANTS, ETC.
  - ALL WATER MAIN PIPE SHALL HAVE CLASS F-III BEDDING UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET MD-1 FOR BEDDING DETAILS.
  - ALL PRECAST PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478.
  - CONTRACTOR SHALL BAG ALL NEW FIRE HYDRANTS UNTIL THE WATER MAIN IS ACCEPTED FOR SERVICE.
  - WHEN THE FIRE HYDRANT IS BEING INSTALLED, THE 6-INCH DIAMETER FIRE HYDRANT VALVE SHALL BE INSTALLED IN THE FULL OPEN POSITION.
  - WATER MAIN TO BE PLACED LEVEL THROUGH ALL GATE WELLS.
  - ALL WATER SYSTEM BOLTS ARE TO BE NEW COR-BLUE, OR OTHER APPROVED COR-10 STEEL MASTIC COATED T-BOLTS.
  - A FIRE HYDRANT SHOULD BE PLACED AT THE END OF ALL DEAD END WATER MAIN.



VERTICAL REACTION BLOCKING



STANDARD FIRE HYDRANT ASSEMBLY "T" TYPE  
N.T.S.

- ### TAYLOR NOTES
- WATER MAIN PIPE THREE INCHES IN DIAMETER AND LARGER SHALL BE DUCTILE IRON CLASS 54, OR FUSIBLE PVC C900 WITH TRACER WIRE.
  - DOMESTIC SERVICE TWO INCHES IN DIAMETER OR SMALLER SHALL BE TYPE "K" COPPER PIPE, OR HDPE OR 11 WITH 12 GAUGE SOLID CORE TRACER WIRE, NON-BRAIDED.
  - CORPORATION STOPS SHALL BE FORD, MODEL F1000-x-0, 1-INCH MINIMUM SIZE, AWWA TAPER THREAD INLET AND QUICK JOINT TYPE OUTLET WITH SOLID INSERT STIFFENER.
  - SERVICE SADDLES SHALL BE FORD, MODEL 202BS, WITH AWWA TAPER THREAD OUTLETS.
  - CURB STOPS SHALL BE FORD, MINNEAPOLIS PATTERN, MODEL B44-xxxM-0, 1-INCH MINIMUM SIZE, QUICK JOINT INLET AND OUTLET. CURB BOXES IN NON-PAVED AREAS SHALL BE FORD, EXTENSION TYPE WITH MINNEAPOLIS PATTERN BASE, MODEL EM1-xx-46, 1-INCH INSIDE DIAMETER (ONE PIECE LID) 5-FOOT MINIMUM EXTENDED LENGTH. CURB BOXES IN PAVED AREAS SHALL BE FORD, EXTENSION TYPE WITH MINNEAPOLIS PATTERN BASE, MODEL EM2-xx-46, 1-INCH INSIDE DIAMETER, 5-FOOT MINIMUM EXTENDED LENGTH (COMBINATION LID WITH PENTAGON PLUG).
  - ALL NECESSARY FITTINGS FOR THE INSTALLATION OF THE WATER MAIN ARE TO MEET THE CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT STANDARDS.
  - ALL EXISTING WATER MAINS ARE TO BE KEPT IN SERVICE DURING CONSTRUCTION OPERATIONS UNLESS ARRANGEMENTS WITH THE CITY WATER DEPARTMENT ARE MADE. THE CITY OF TAYLOR WATER DEPARTMENT WILL BE THE ONLY AUTHORIZED PERSONNEL TO OPERATE THE VALVES ON THE MAIN LINE.
  - FIRE HYDRANTS SHALL BE EAST JORDAN IRON WORKS "WATERMASTER" 5 BR. MODEL 250, CONFORMING TO A.W.W.A. C502 IMPROVED HYDRANT SPECIFICATIONS. HYDRANTS SHALL BE DESIGNED TO OPEN IN A COUNTER-CLOCKWISE DIRECTION WITH AN OPENING ARROW CAST INTO THE BONNET AND SHALL HAVE SEAT VALVE AND DOUBLE OPERATING STEM O-RING SEALS, 6-INCH DIA VALVE OPENING, 6-INCH DIA MECHANICAL JOINT HUB AND TWO 4-INCH DIA PUMPER NOZZLES.
  - HYDRANTS SHALL BE EQUIPPED WITH CITY OF DETROIT FIRE DEPARTMENT STANDARD NOZZLE THREADS AND OPERATING NUT AND SHALL BE ORDERED FOR 6.5 FOOT BURY. HYDRANTS SHALL BE PAINTED RED.
  - HYDRANT RUNS LONGER THAN 10 LF SHALL BE 8-INCH DIAMETER PIPE WITH AN 8-INCH BY 6-INCH REDUCER PLACED BEFORE THE HYDRANT ASSEMBLY
  - GATE VALVES, FOR SIZES 4-INCH THROUGH 16-INCH DIA SHALL BE EAST JORDAN IRON WORKS FLOW MASTER, MUELLER 2360 SERIES, OR U.S. PIPE METROSEAL, RESILIENT WEDGE TYPE, CONFORMING TO A.W.W.A. C509 OR C515 SPECIFICATION. VALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF 200 P.S.I. AND A TEST PRESSURE OF 400 P.S.I. AND TO OPEN IN A CLOCKWISE DIRECTION AND SHALL HAVE A 2-INCH SQUARE OPERATIONS NUT AND DOUBLE OPERATING STEM O-RINGS. VALVES SHALL BE ORDERED WITH INLET AND OUTLET CONNECTIONS COMPATIBLE TO THE WATER PIPE JOINTS USED ON THE SYSTEM.
  - FRAME AND COVERS SHALL BE SPECIFIED AS FOLLOWS:  
 A. FRAME SHALL BE E11040-1 ZPT  
 B. COVER SHALL BE 1040A (WATER) WITH CITY LOGO

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 www.wadetrims.com

**WADE TRIM**

CITY OF TAYLOR

STANDARD WATER MAIN DETAILS (WM-2)

ISSUED FOR: DATE: BY:

JOB NO.

SHEET

WM-2

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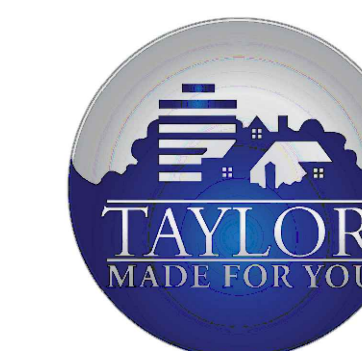


**Sidock Group**

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Novi, Michigan 48374  
Ph: (248)349-4500 • Fax: (248)349-1429

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www.sidockgroup.com



Client:

City of Taylor  
23555 Goddard Rd.  
Taylor, MI 48180

Project:

City of Taylor  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180

Seal:



Date: 12/21/2023 Issued For: OWNER REVIEW  
01/17/2024 PERMIT SET

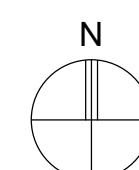
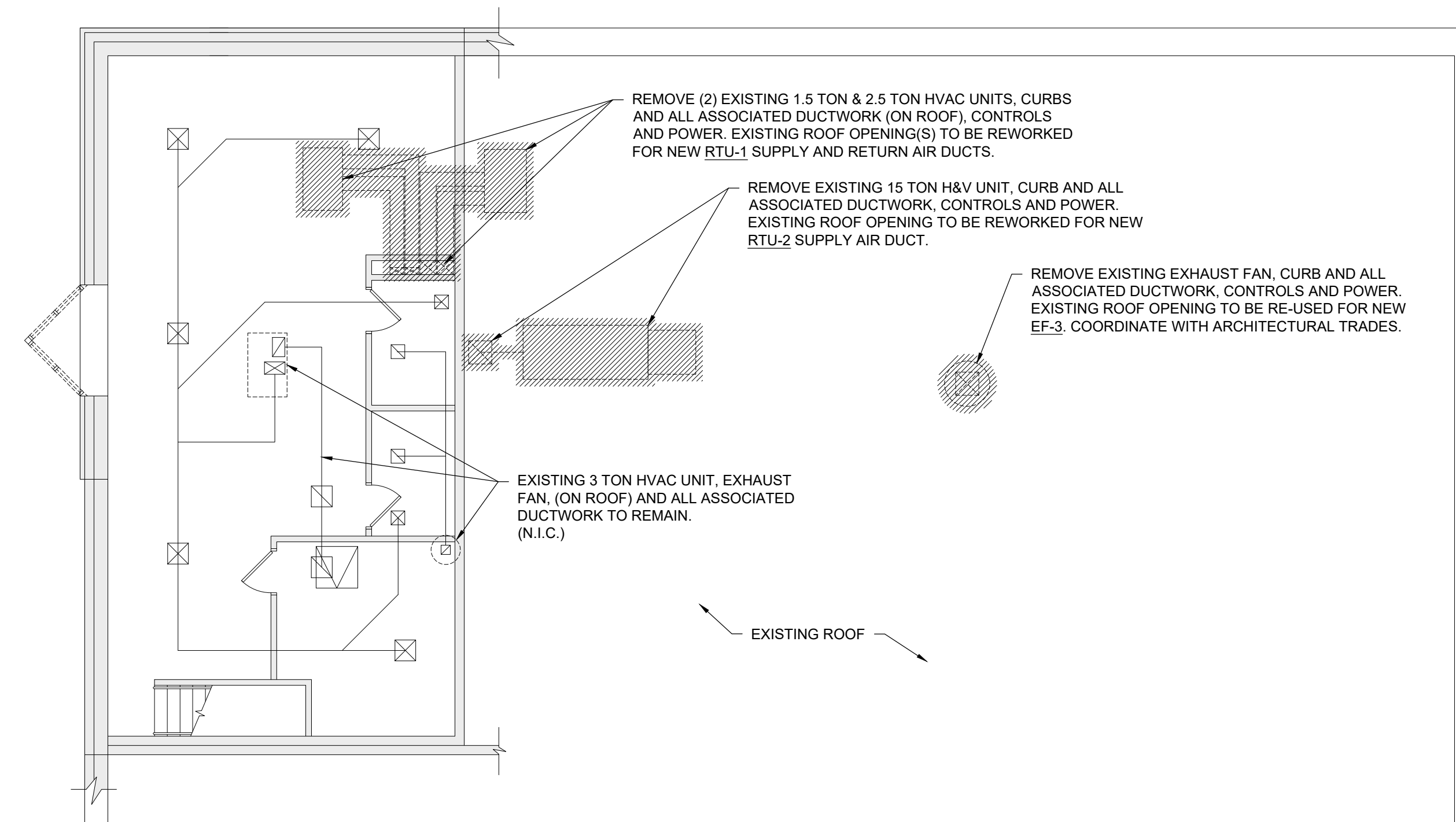
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Approved: WAD

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**MECHANICAL  
DEMOLITION  
FLOOR PLANS**

Project Number: 22712.A

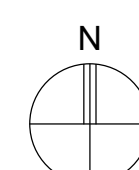
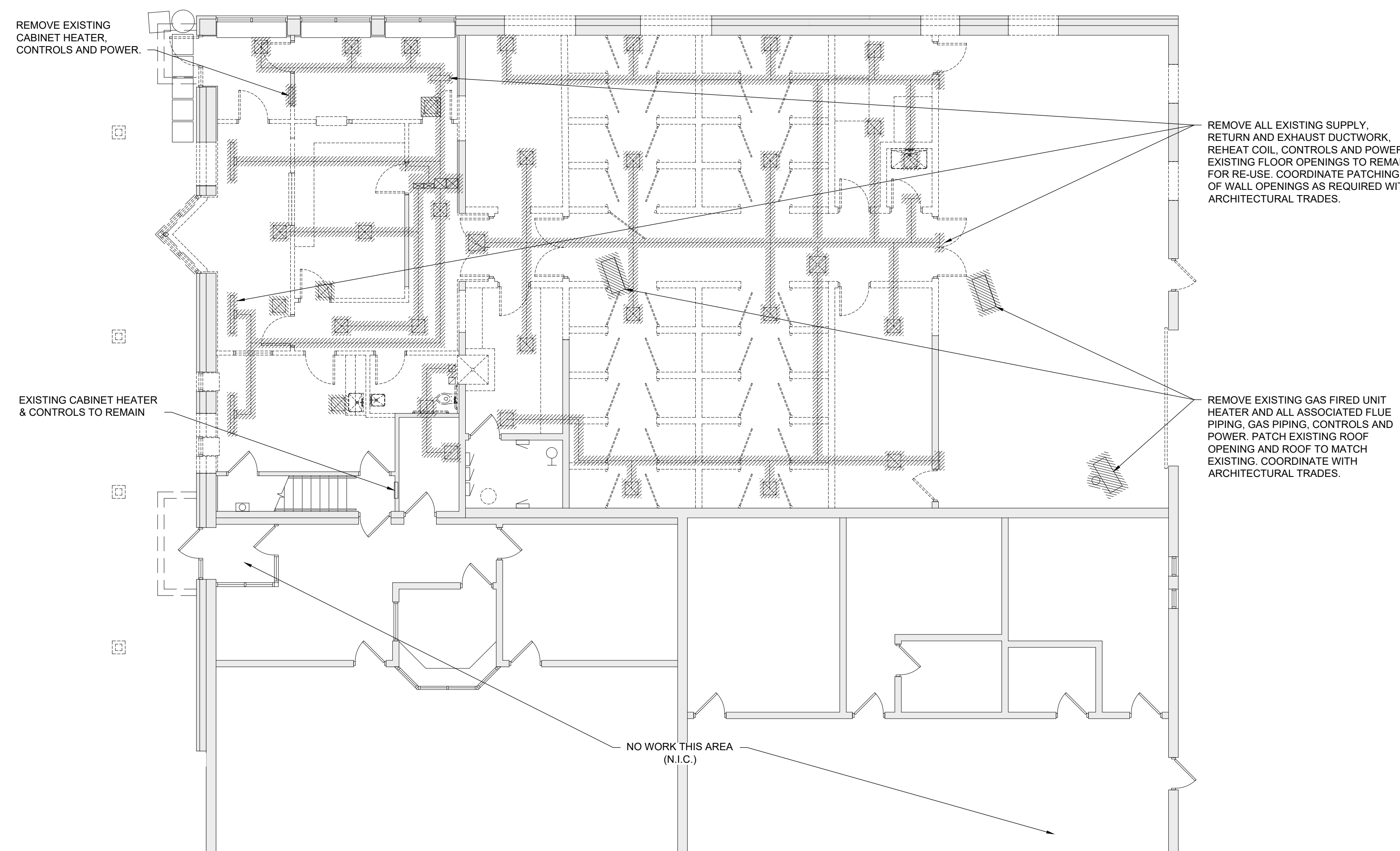
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**EXISTING SECOND FLOOR PLAN/ROOF - MECHANICAL DEMOLITION**

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



**EXISTING FIRST FLOOR PLAN - MECHANICAL DEMOLITION**

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



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Seal:



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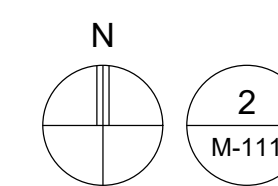
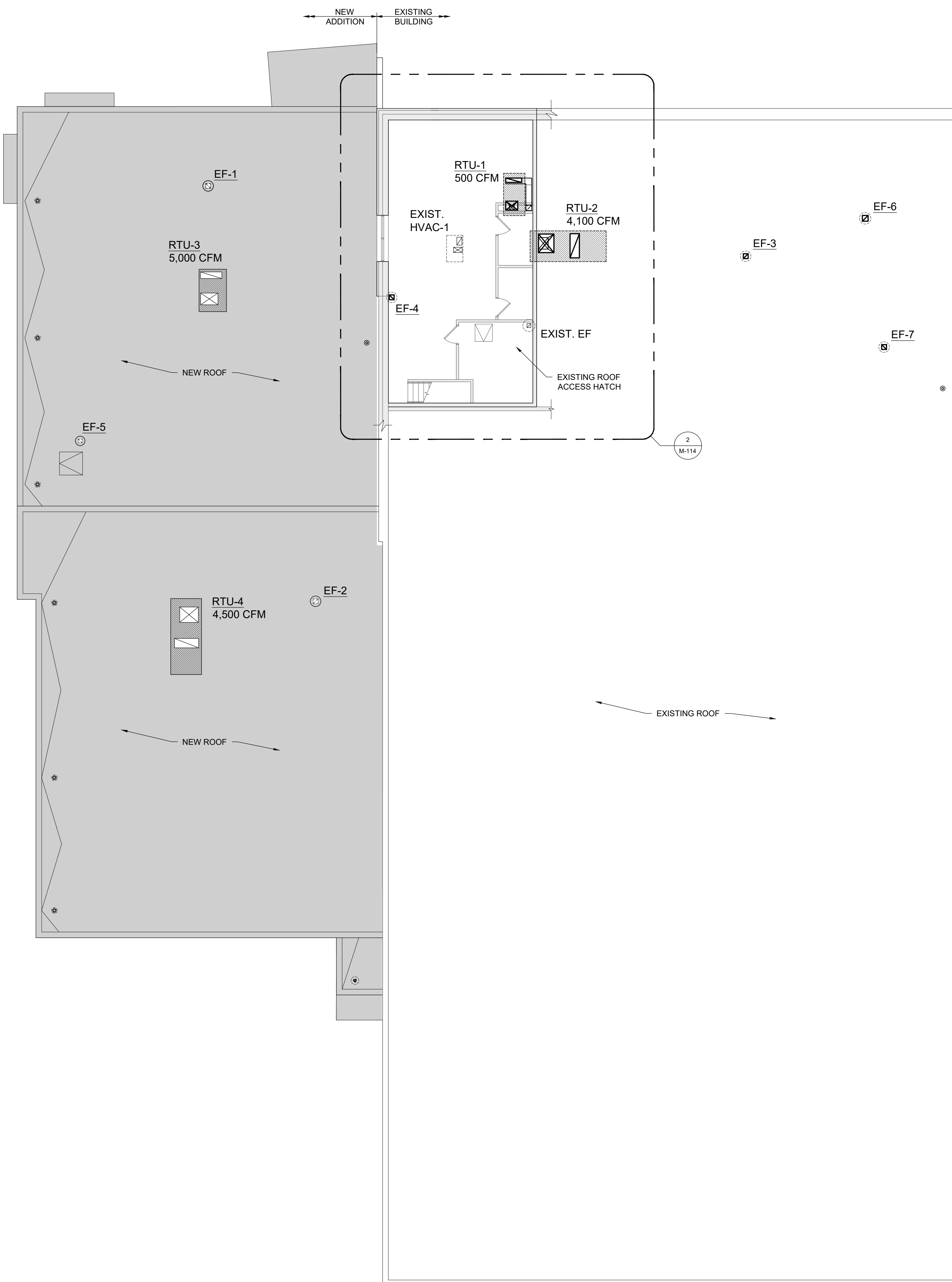
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OVERALL HVAC  
FLOOR PLAN

Project Number: 22712.A

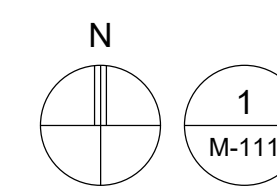
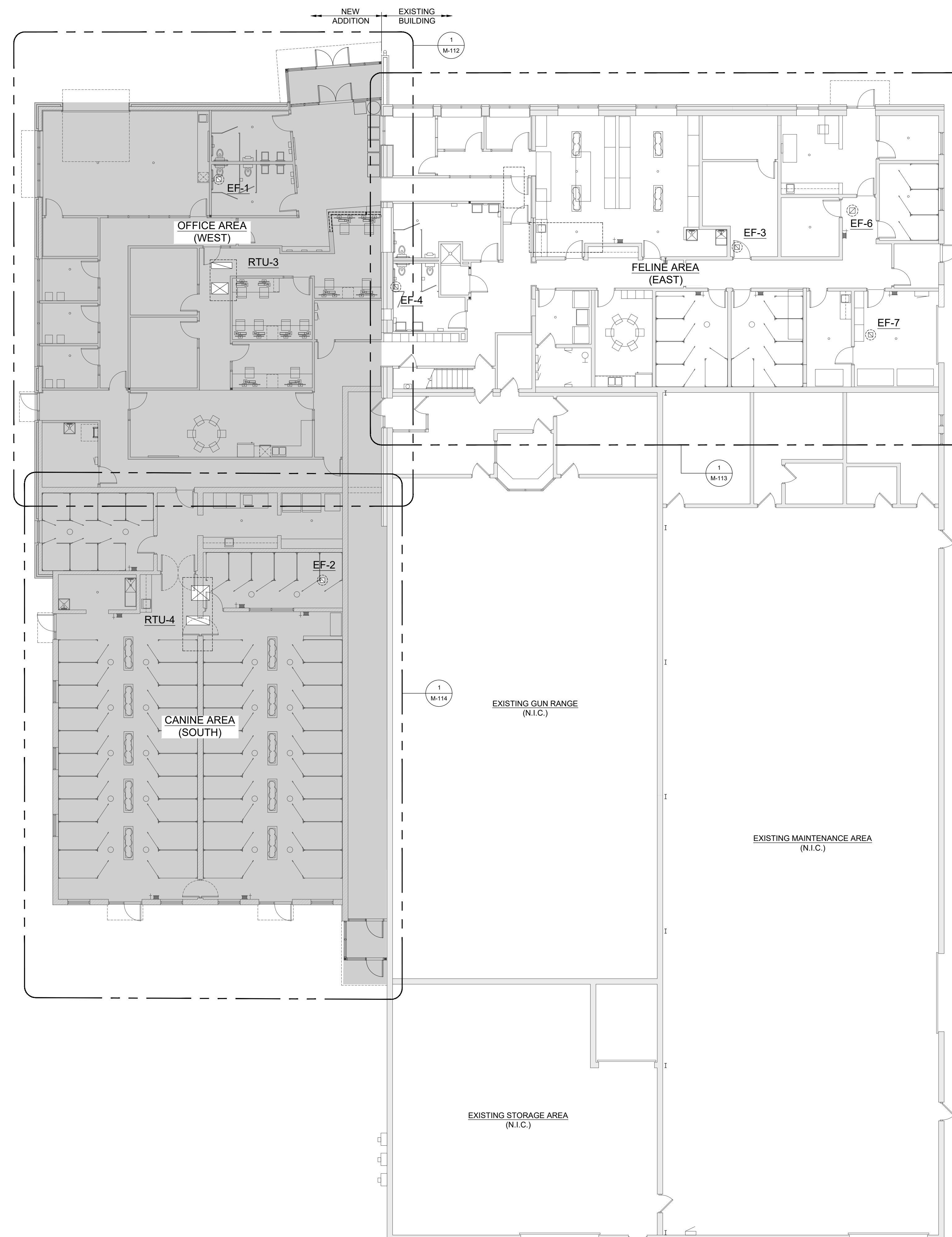
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HVAC OVERALL SECOND FLOOR/ROOF PLAN

SCALE: 3/32" = 1'-0"



HVAC OVERALL FIRST FLOOR PLAN

SCALE: 3/32" = 1'-0"

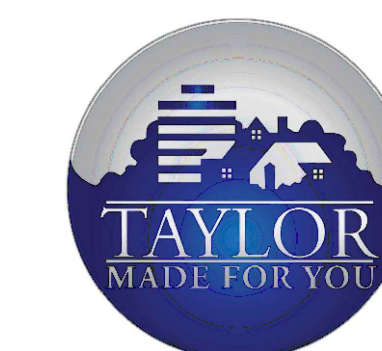


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23555 Goddard Rd.  
Taylor, MI 48180

Project:

City of Taylor  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180

Seal:



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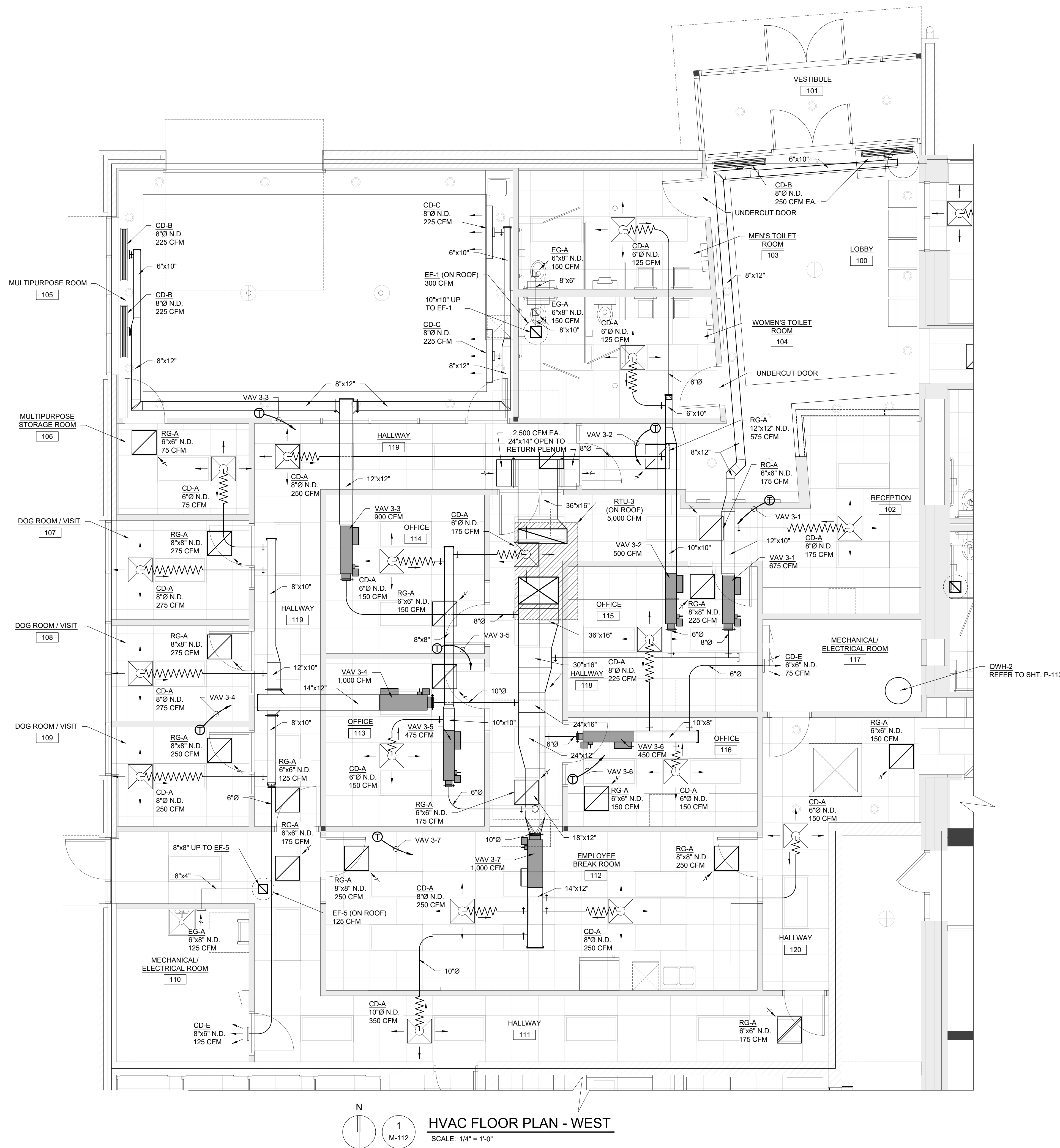
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Approved: WAD

Sheet Title:  
HVAC  
FLOOR PLAN -  
WEST

Project Number: 22712.A

Sheet Number: M-112

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N  
1  
M-112  
HVAC FLOOR PLAN - WEST  
SCALE: 1/4" = 1'-0"



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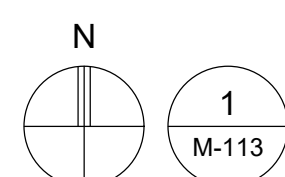
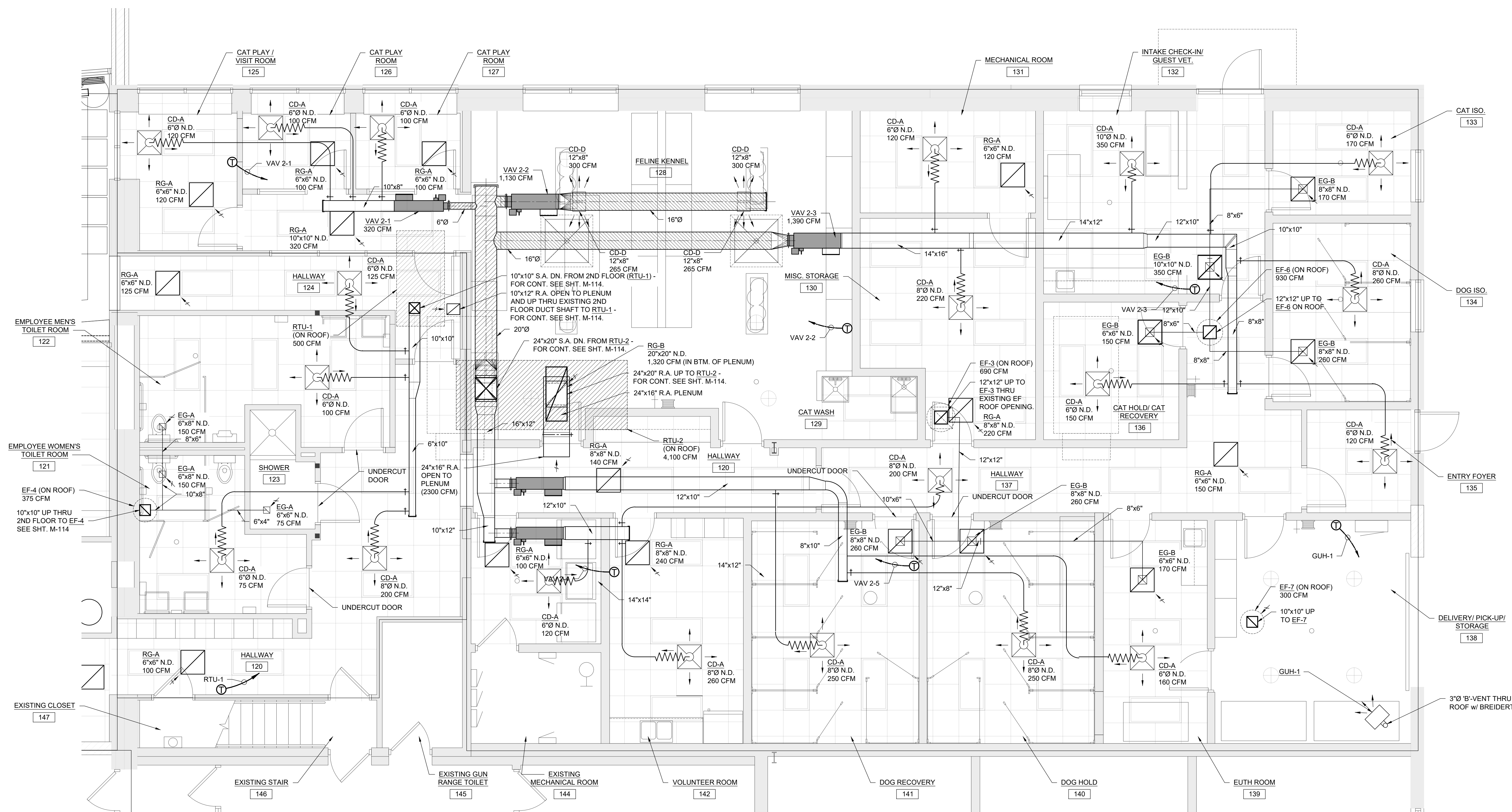
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Sheet Title:  
HVAC  
FLOOR PLAN -  
EAST

Project Number: 22712.A

Sheet Number: M-113

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HVAC FLOOR PLAN - EAST

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



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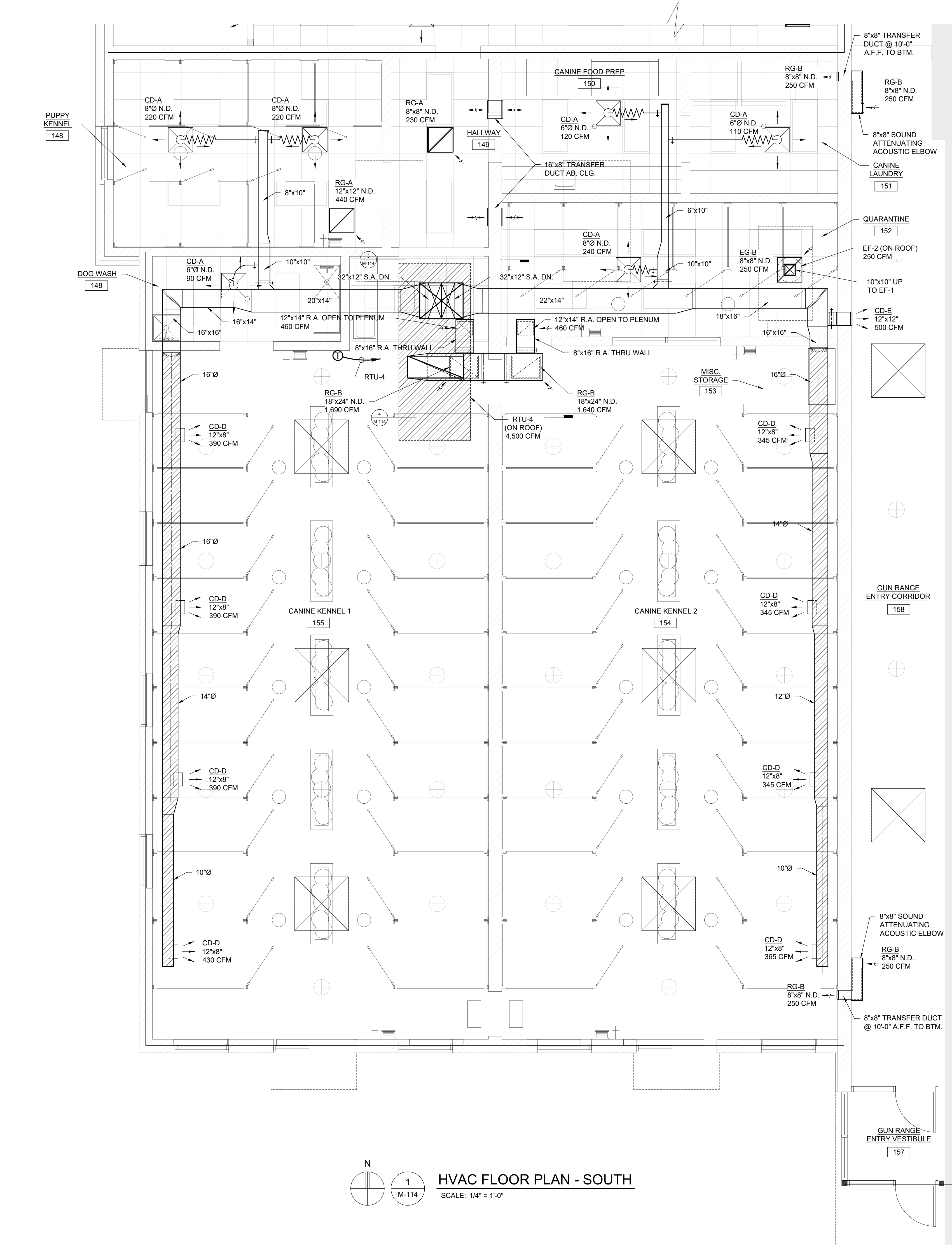
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Sheet Title:  
HVAC  
FLOOR PLAN -  
SOUTH

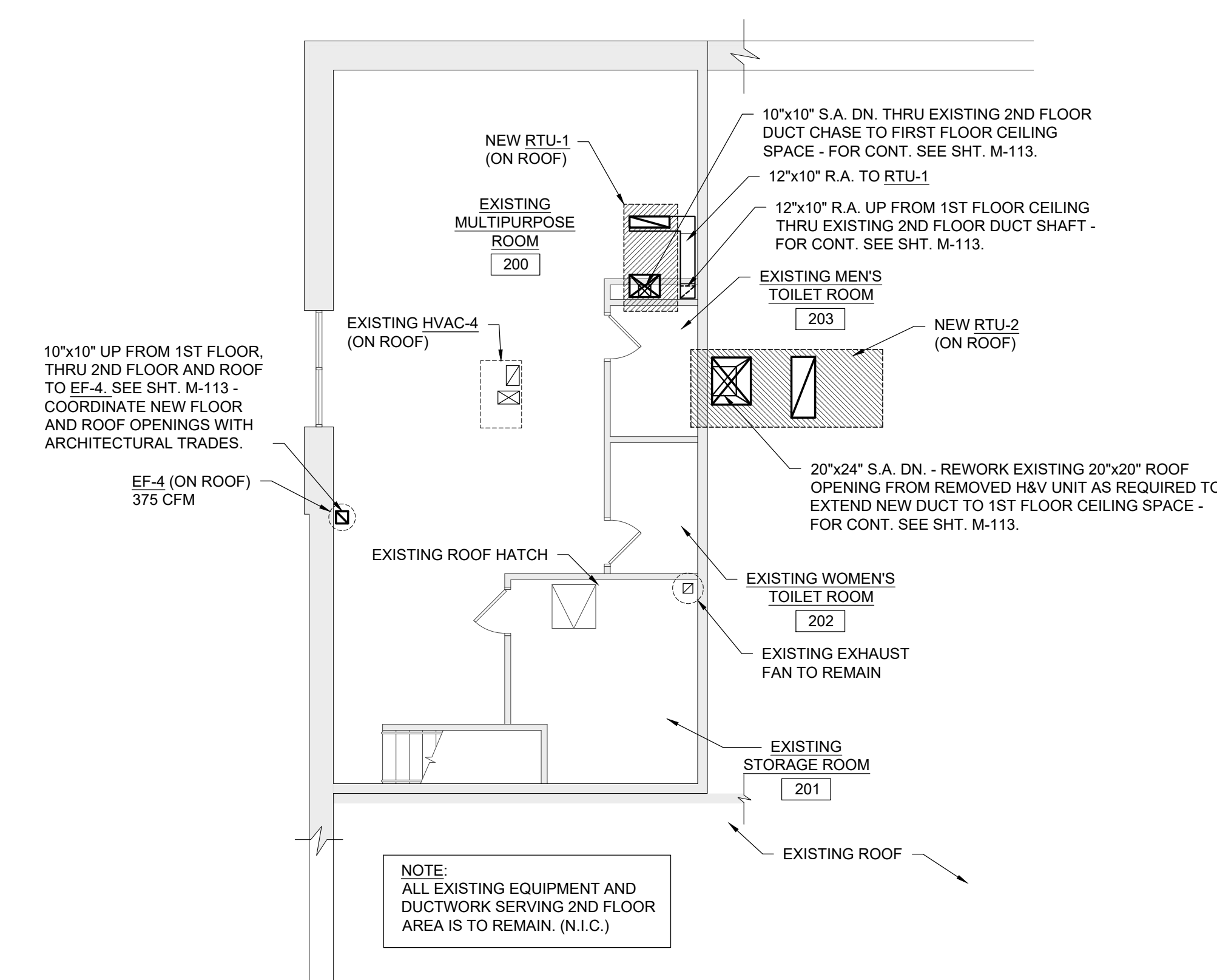
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Sheet Number: M-114

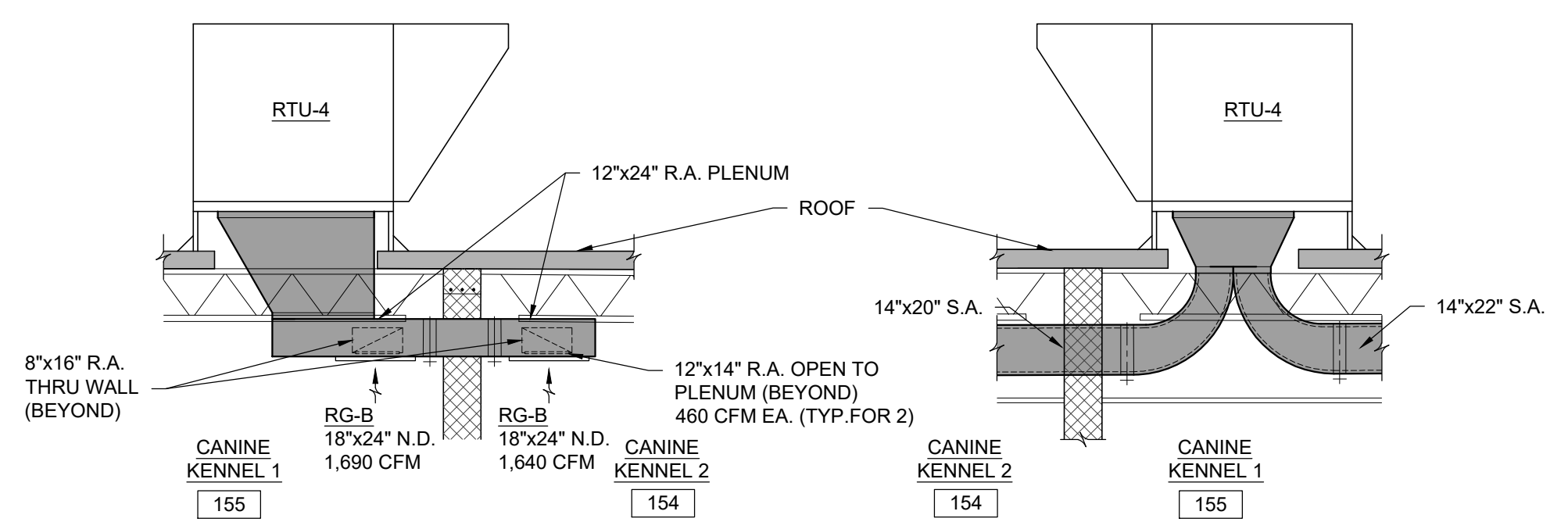
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1  
M-114  
HVAC FLOOR PLAN - SOUTH  
SCALE: 1/4" = 1'-0"

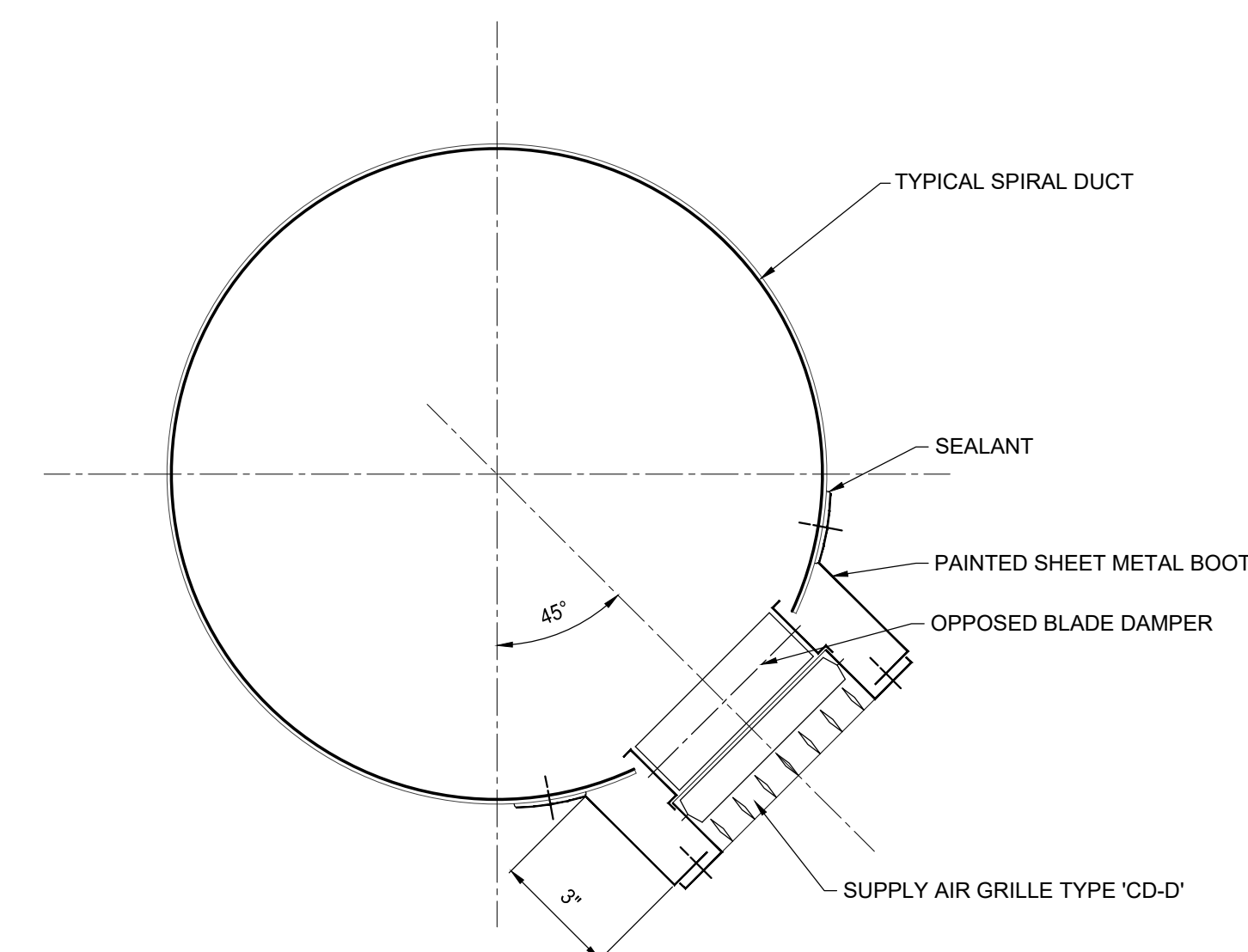


2  
M-114  
HVAC SECOND FLOOR/ROOF PLAN  
SCALE: 1/8" = 1'-0"



4  
M-114  
RETURN AIR DETAIL  
SCALE: 1/4" = 1'-0"

3  
M-114  
SUPPLY AIR DETAIL  
SCALE: 1/4" = 1'-0"



TYPICAL SPIRAL DUCT SUPPLY GRILLE DETAIL  
SCALE: NONE





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Sheet Title:  
HVAC SCHEDULES

Project Number: 22712.A

Sheet Number: M-900

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ROOFTOP HVAC UNIT SCHEDULE

Table with columns: TAG, LOCATION, SERVING, SUPPLY AIR (CFM), RETURN AIR (CFM), MIN. OUTDOOR AIR (CFM), SUPPLY FAN DATA, DX COOLING COIL DATA, HEATING SECTION (INDIRECT GAS-FIRED), FILTER DATA, AIR-COOLED CONDENSING SECTION, DESIGN BASIS, ELECTRICAL, REMARKS.

NOTE 1: INCLUDES THROUGH THE BASE ELECTRICAL WITH NON-FUSED DISCONNECT SWITCH; GFCI, 120V/15A, 2 PLUG FACTORY WIRED CONVENIENCE OUTLET

ROOFTOP AIR HANDLING UNIT SCHEDULE (WITH ENERGY RECOVERY WHEEL).....PART 1

Table with columns: MARK, LOCATION, SYSTEM AND/OR SERVICE, ENERGY RECOVERY (ENTHALPY) WHEEL SECTION, SUPPLY FAN, EXHAUST FAN, REMARKS.

ROOFTOP AIR HANDLING UNIT SCHEDULE (WITH ENERGY RECOVERY WHEEL).....PART 2

Table with columns: MARK, LOCATION, SYSTEM AND/OR SERVICE, FILTERS, DX COOLING COIL DATA, AIR COLLED CONDENSING SECTION DATA, ELECTRICAL, DESIGN BASIS, REMARKS.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE (OUTSIDE AIR COMPLIANCE AS PER 2015 MICHIGAN MECHANICAL CODE, TABLE 403.3)

Table with columns: MARK, PART OF, SERVING, GENERAL, VAV TERMINAL UNIT DATA, ELECTRIC REHEAT COIL DATA, DRAWING NUMBER, REMARKS.

NOTE 1: FACTORY PROVIDED INTERLOCKING DOOR DISCONNECT SWITCH LOCATED ON THE ELECTRIC HEATER CONTROL PANEL - TYPICAL FOR EACH VAV TERMINAL UNIT

NOTE 2: TRANSFORMER SHALL BE AN INTEGRAL COMPONENT OF THE HEATER CONTROL PANEL DEPENDENT ON UNIT LOAD REQUIREMENTS TO PROVIDE 24VAC FOR CONTROLS - TYPICAL FOR EACH VAV TERMINAL UNIT

NOTE 3: FOR ELECTRIC HEATER ACCESS, SIDE HINGED DOOR MUST HAVE MINIMUM DISTANCE (CLEARANCE) OF 36 INCHES

NOTE 4: BREATHING ZONE OUTDOOR AIRFLOW REQUIREMENT (Vbz) (2015 MICHIGAN MECHANICAL CODE - SECTION 403.3.1.1.1 & TABLE 403.3.1.1)

Vbz = Ra \* Aa + Rp \* Pz .....(EQUATION 4-1)

WHERE:

Aa = ZONE FLOOR AREA

Pz = ZONE POULATION

Rp = PEOPLE OUTDOOR AIR RATE

Ra = AREA OUTDOOR AIR RATE

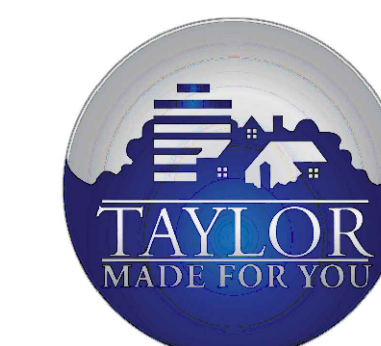


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Sheet Title:  
HVAC SCHEDULES

Project Number: 22712.A

Sheet Number: M-901

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EXHAUST FAN SCHEDULE															
TAG	SERVING	LOCATION	FAN TYPE	AIR QUANTITY (CFM)	EXT. ST. PR. (IN. W.C.)	RPM	DRIVE	BHP	HP	ELECTRICAL		DESIGN BASIS		DRAWING NUMBER	REMARKS
										VOLT	PHASE	MAKE	MODEL		
EF-1	PUBLIC TOILET ROOMS 103 & 104	ROOF	DOWNBLAST	300	0.375	1,550	DIRECT	0.06	1/20	120	1	GREENHECK	G-080-D	M-112	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER, INTERLOCK w/ RTU-3.
EF-2	QUARANTEEN 152	ROOF	DOWNBLAST	250	0.375	1,300	DIRECT	0.04	1/30	120	1	GREENHECK	G-085-G	M-114	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER, INTERLOCK w/ RTU-4.
EF-3	EUTH. 139, DOG RECOVERY 140 & 141	ROOF	DOWNBLAST	690	0.375	1,285	DIRECT	0.11	1/6	120	1	GREENHECK	G-099-B	M-113	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER, INTERLOCK w/ RTU-2.
EF-4	EMPLOYEE TOILETS 121 & 122 AND SHOWER 123	ROOF	DOWNBLAST	375	0.375	1,300	DIRECT	0.05	1/25	120	1	GREENHECK	G-095-G	M-113	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER, INTERLOCK w/ RTU-1.
EF-5	MECHANICAL ROOM 110	ROOF	DOWNBLAST	125	0.375	1,550	DIRECT	0.02	1/30	120	1	GREENHECK	G-065-D	M-112	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER, INTERLOCK w/ RTU-3.
EF-6	CHECK-IN 132, CAT ISO. 133, DOG ISO. 134 & Cat Recovery 136	ROOF	DOWNBLAST	930	0.375	1,350	DIRECT	0.14	1/6	120	1	GREENHECK	G-103-b	M-113	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER, INTERLOCK w/ RTU-2.
EF-7	DELIVERY/PICK-UP/STORAGE 138	ROOF	DOWNBLAST	300	0.375	1,550	DIRECT	0.06	1/20	120	1	GREENHECK	G-080-D	M-113	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER, MANUAL WALL SWITCH CONTROL.

DIFFUSER, REGISTER AND GRILLE SCHEDULE																		
TAG	SERVICE & TYPE	MODEL NUMBERS (DESIGN BASIS)	ACCESSORIES			MATERIAL		FINISH		COLOR				REMARKS				
			CONTROL GRID	OPPOSED BLADE DAMPER	SQ. TO ROUND ADAPTER	SEPARATE PLASTER FRAME	INLET DAMPER	STEEL	ALUMINUM	OTHER	BAKED ENAMEL	LACQUER	ANODIZED		STANDARD BLACK	CLEAR OR LACQUER	STD OFF-WHITE	MATCH T-BAR
CD-A	LOUVERED FACE CEILING DIFFUSER	TITUS MODEL TDC-AA			X				X	X				X				BORDER TYPE - LAY IN
CD-B	PLENUM SLOT DIFFUSER	TITUS MODEL ML-39				X	X	X						X				(4) 1" SLOTS; 48"L.; MP-39 PLENUM; SURFACE MOUNT w/ PLASTER FRAME
CD-C	PLENUM SLOT DIFFUSER	TITUS MODEL ML-39				X	X	X						X				(4) 1" SLOTS; 48"L.; FABRICATED DUCT PLENUM; SURFACE MOUNT w/ PLASTER FRAME
CD-D	DUCT MOUNTED SUPPLY AIR GRILLE	TITUS MODEL 300RL		X				X						X				FABRICATED PAINTED SHEET METAL BOOT; SEE DETAIL, SHT. M-114
CD-E	SURFACE MOUNTED SUPPLY AIR GRILLE	TITUS MODEL 300RL		X				X						X				
RG-A	PERFORATED CEILING RETURN AIR GRILLE	TITUS MODEL PAR-AA							X	X				X				BORDER TYPE - LAY IN
RG-B	SURFACE MOUNTED RETURN AIR GRILLE	TITUS MODEL 350ZRL							X	X				X				0 DEGREE DEFLECTION
EG-A	EXHAUST AIR GRILLE	TITUS MODEL 350		X				X		X				X				SURFACE CEILING OR DUCT MOUNT
EG-B	PERFORATED CEILING EXHAUST AIR GRILLE	TITUS MODEL PAR-AA		X				X		X				X				BORDER TYPE - LAY IN

NOTES

- MODEL NUMBERS ARE FOR GENERAL IDENTIFICATION. SPECIFIC MODEL NUMBERS DEPEND ON APPLICABLE NOTES AND ARCHITECTURAL PLANS. VERIFY MOUNTING TYPE AND DIMENSIONS WITH ARCHITECTURAL WORK. REFER TO ARCHITECTURAL SPECIFICATIONS, RE
- REFER TO DRAWINGS FOR NECK SIZES.

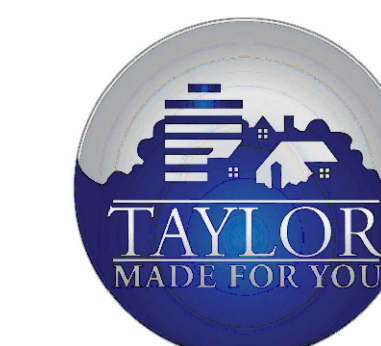


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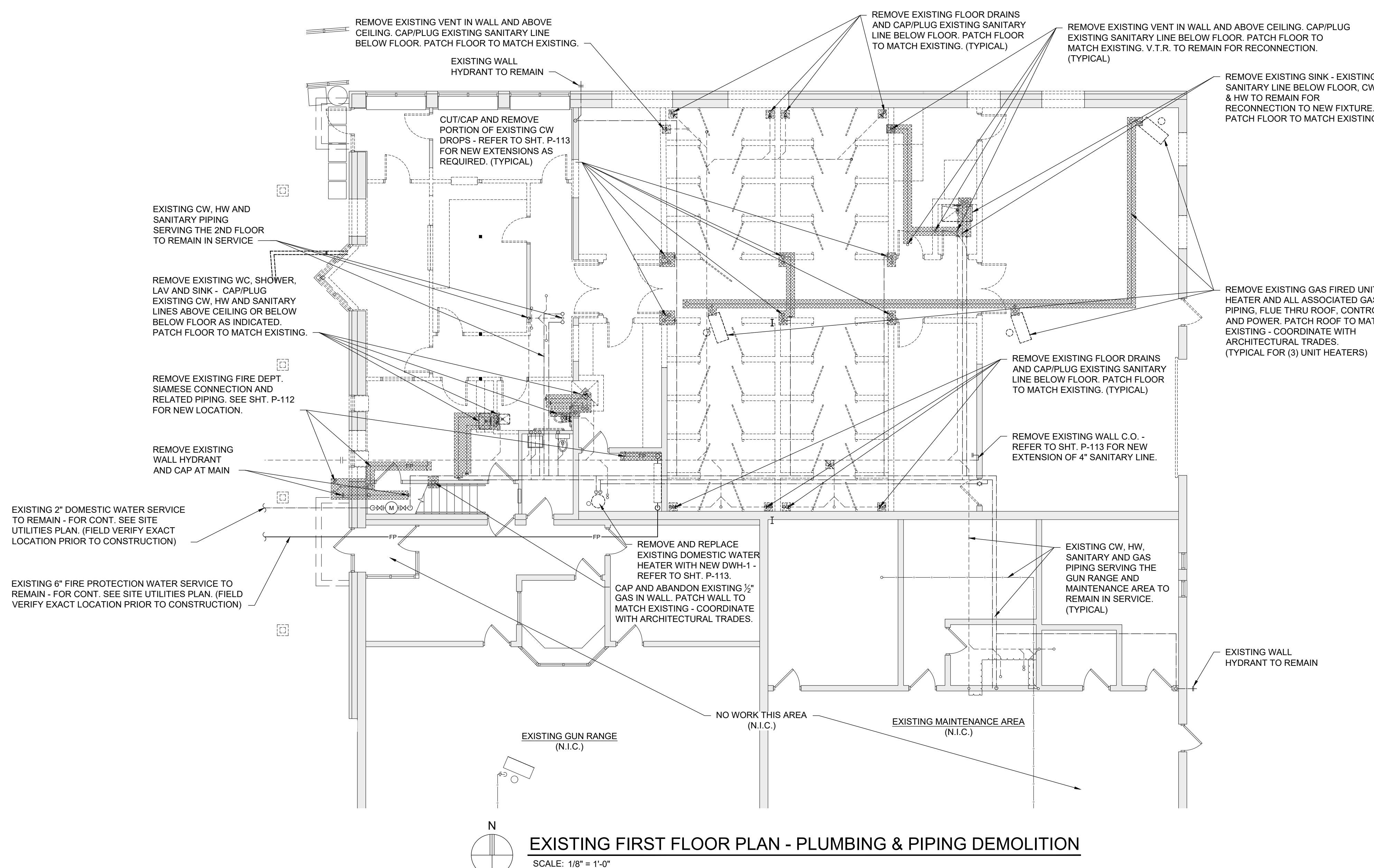
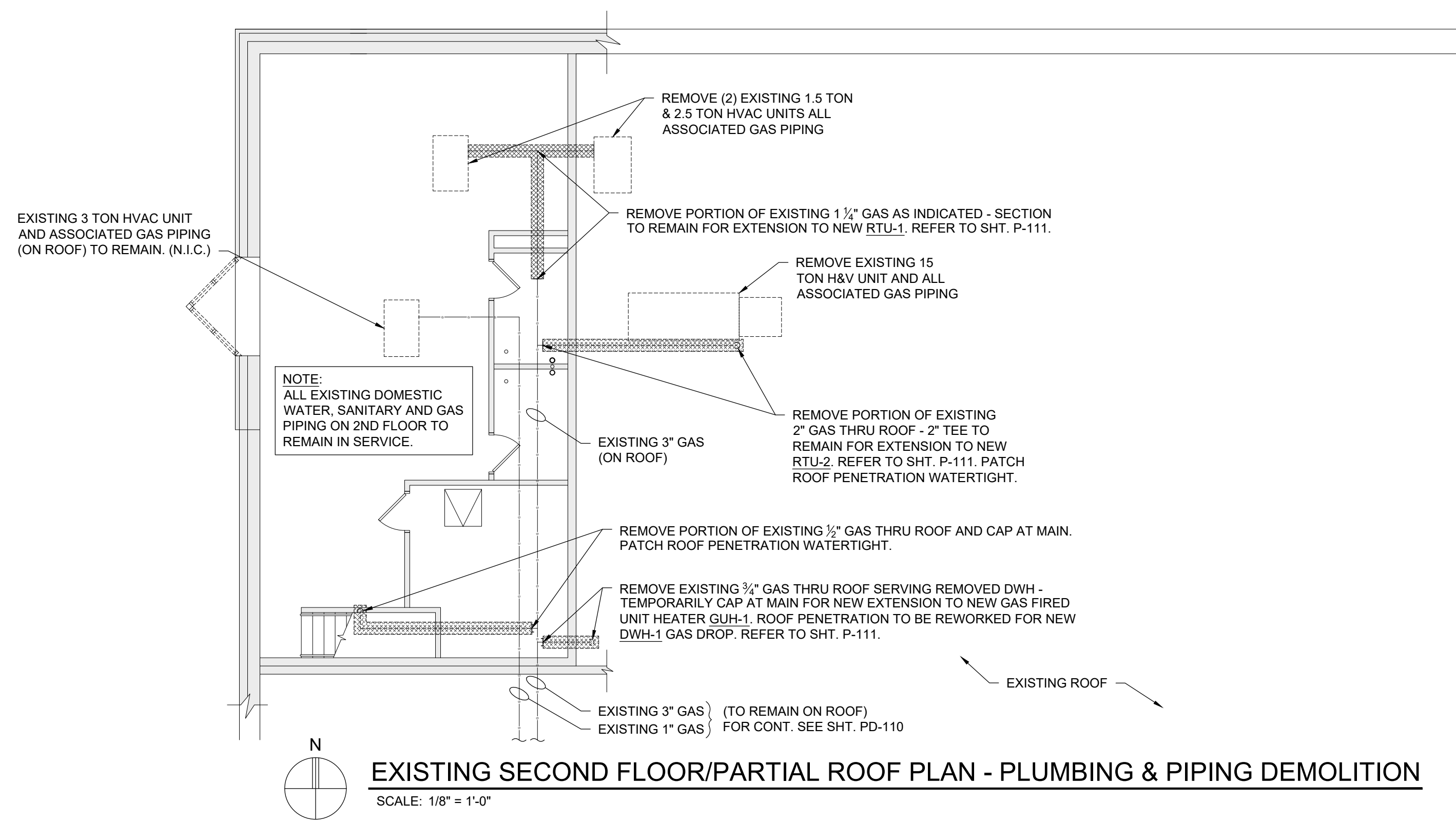
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Sheet Title:  
**PLUMBING & PIPING  
DEMOLITION  
FLOOR PLANS**

Project Number: 22712.A

Sheet Number: **PD-110**

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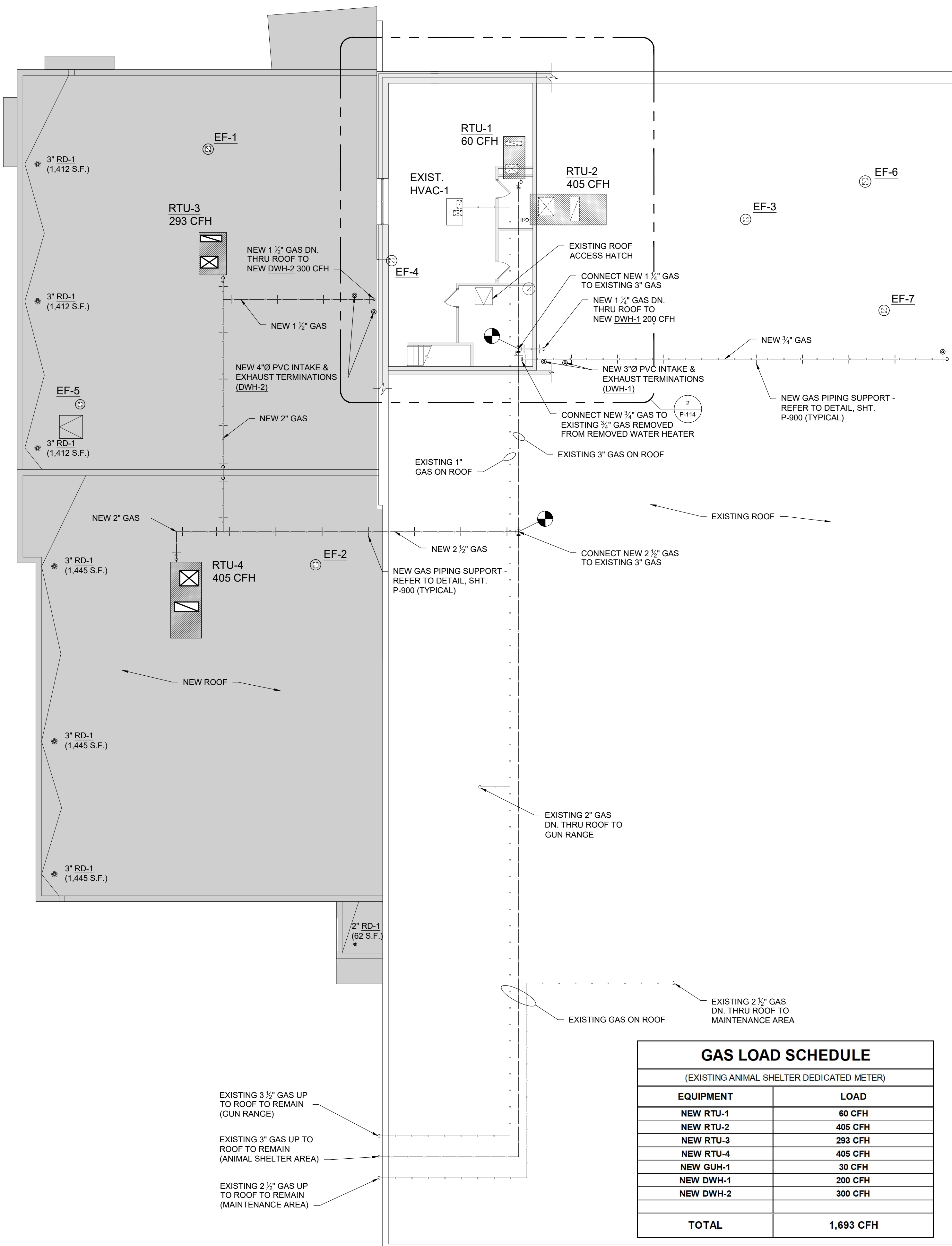
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**OVERALL  
PLUMBING & PIPING  
FLOOR PLANS**

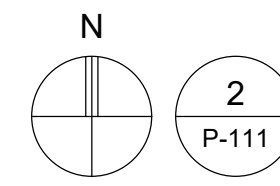
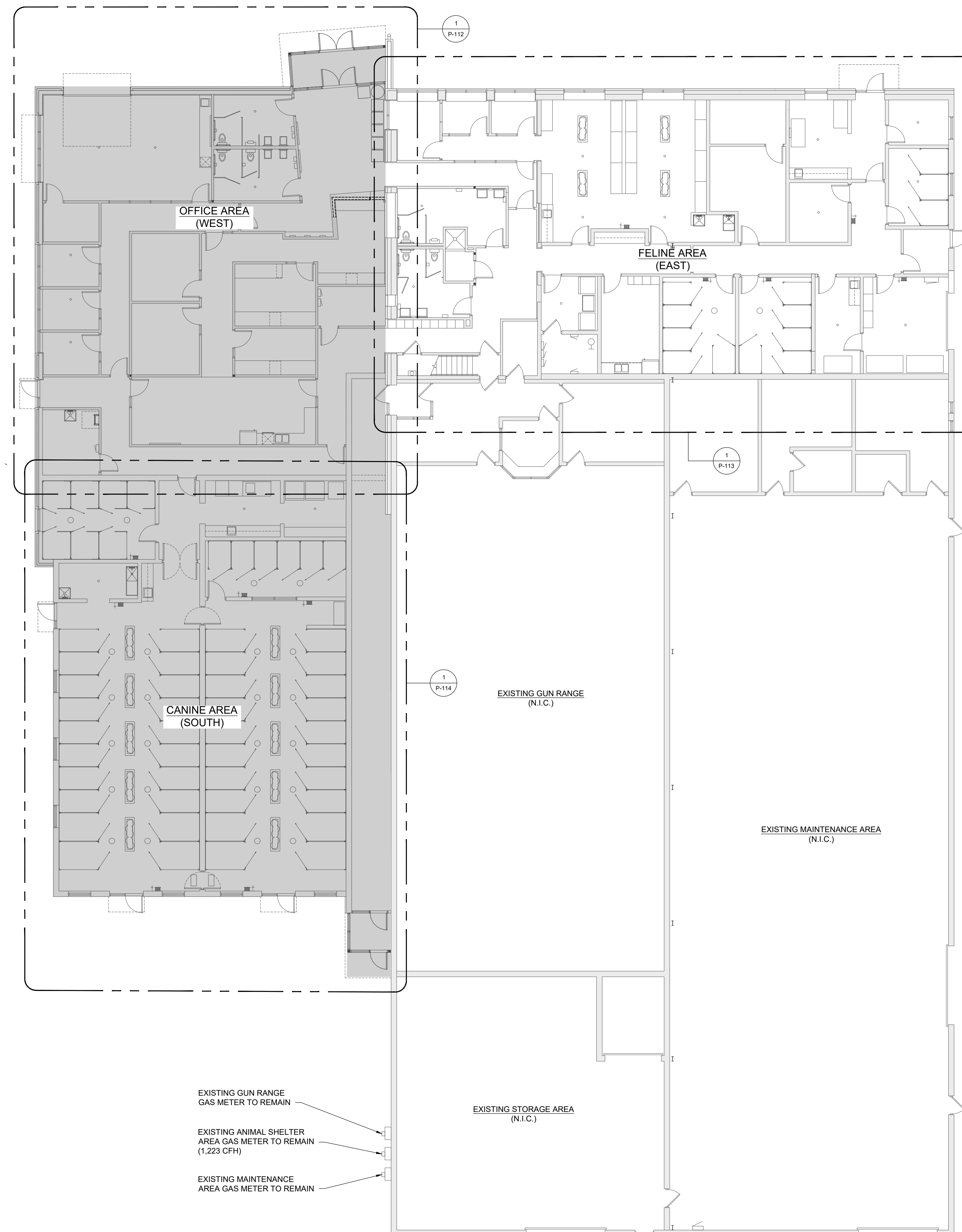
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Sheet Number: **P-111**

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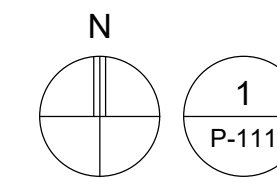


GAS LOAD SCHEDULE	
(EXISTING ANIMAL SHELTER DEDICATED METER)	
EQUIPMENT	LOAD
NEW RTU-1	60 CFH
NEW RTU-2	405 CFH
NEW RTU-3	293 CFH
NEW RTU-4	405 CFH
NEW GUH-1	30 CFH
NEW DWH-1	200 CFH
NEW DWH-2	300 CFH
<b>TOTAL</b>	<b>1,693 CFH</b>



PLUMBING & PIPING OVERALL SECOND FLOOR/ROOF PLAN

SCALE: 3/32" = 1'-0"



PLUMBING & PIPING OVERALL FIRST FLOOR PLAN

SCALE: 3/32" = 1'-0"



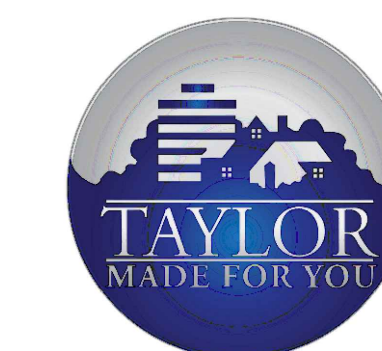


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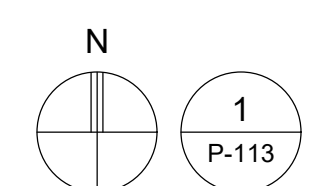
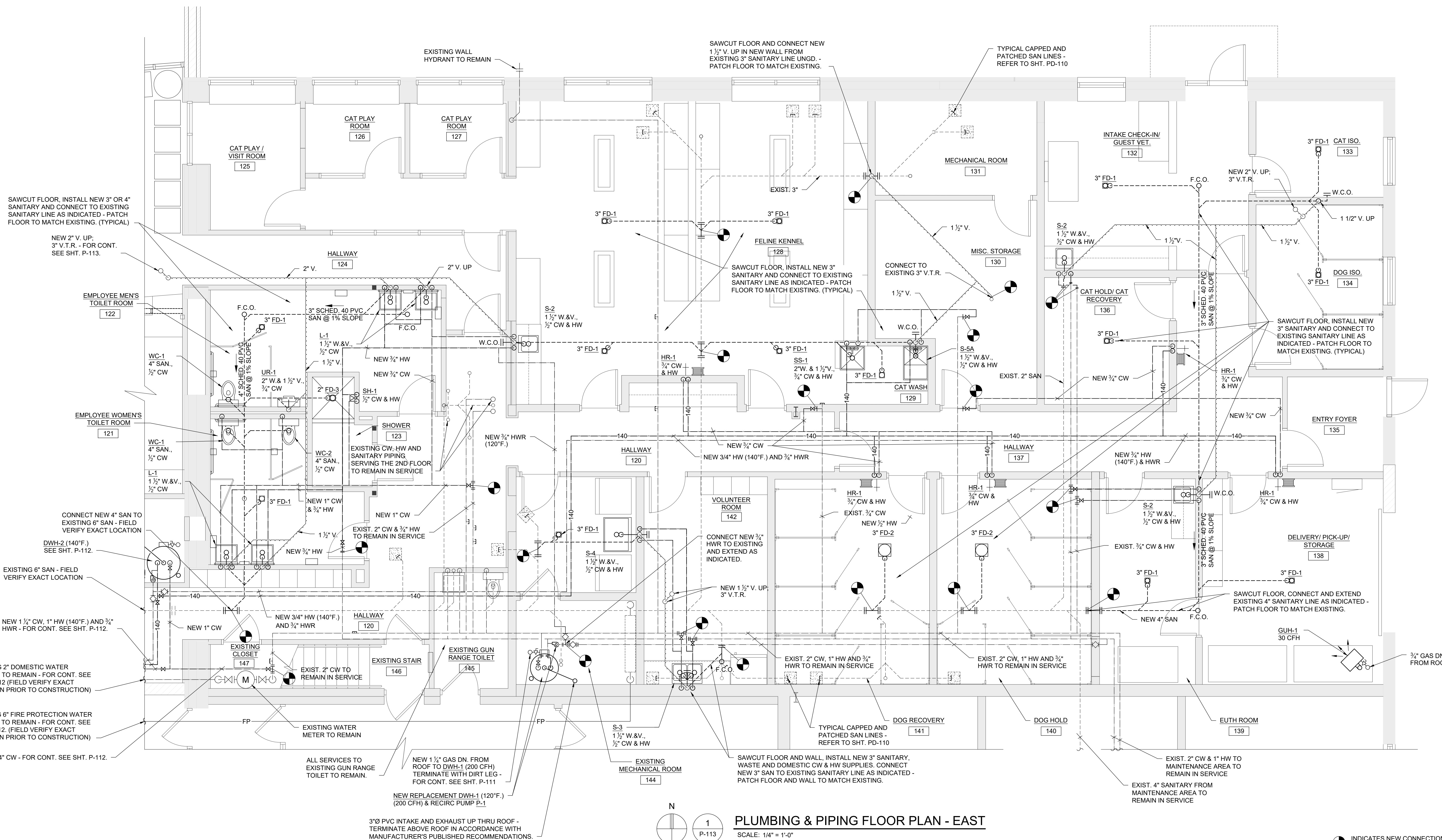
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PLUMBING & PIPING  
FLOOR PLAN -  
EAST

Project Number: 22712.A

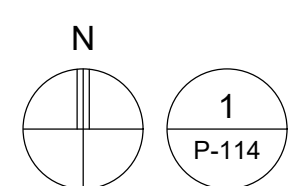
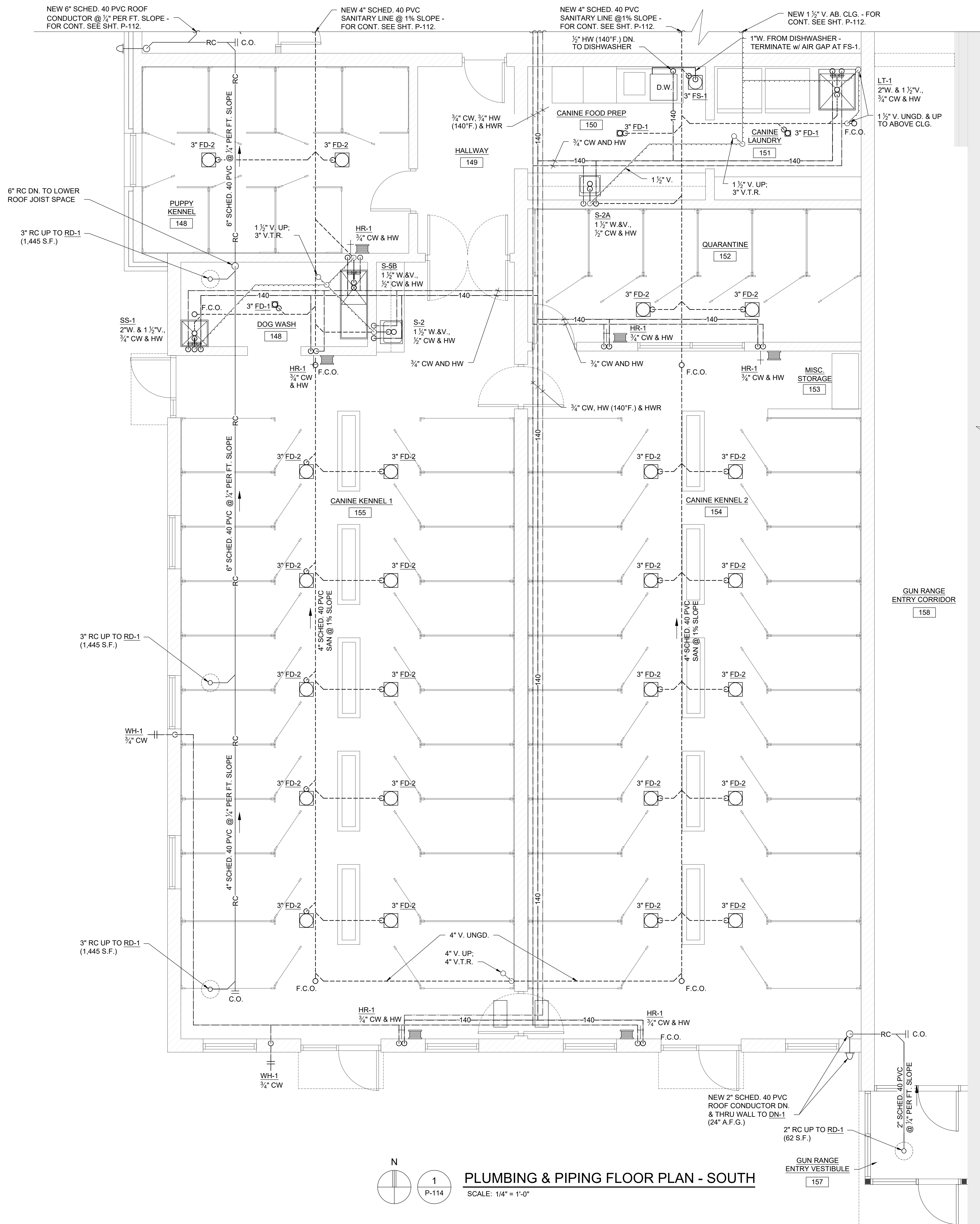
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PLUMBING & PIPING FLOOR PLAN - EAST  
SCALE: 1/4" = 1'-0"

INDICATES NEW CONNECTION  
TO EXISTING PIPING SYSTEM



**PLUMBING & PIPING FLOOR PLAN - SOUTH**  
 SCALE: 1/4" = 1'-0"



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**PLUMBING & PIPING FLOOR PLAN - SOUTH**

Project Number: 22712.A

Sheet Number: **P-114**

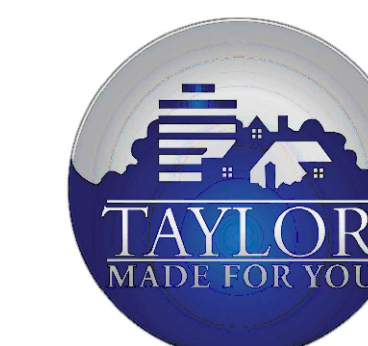
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**PLUMBING & PIPING**  
**SCHEDULES &**  
**DIAGRAMS**

Project Number: 22712.A

Sheet Number: P-900

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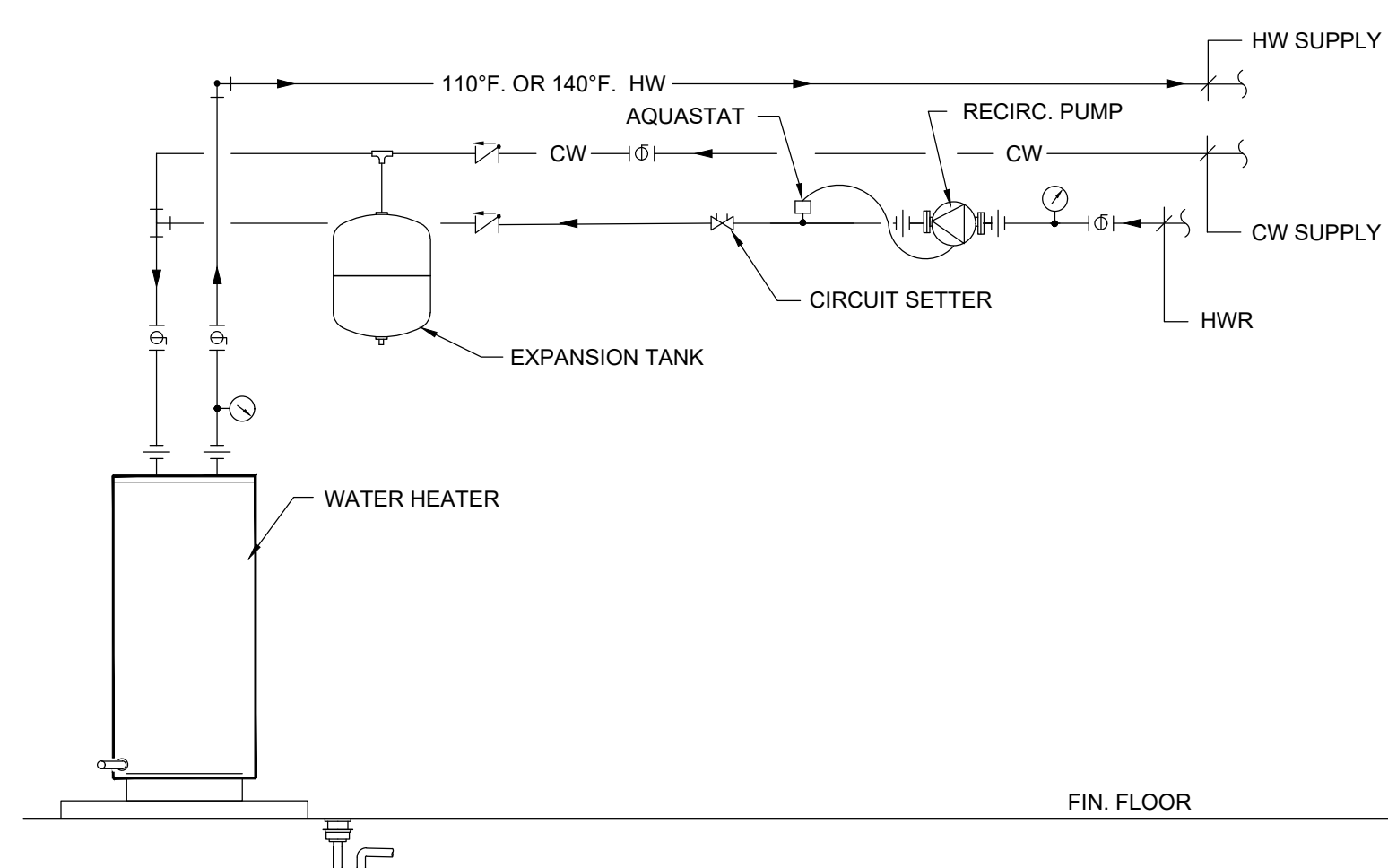
**GAS FIRED UNIT HEATER SCHEDULE**

TAG	SERVING	TYPE	BTUH OUTPUT	MOUNTING		GAS DATA		ELECTRICAL			DESIGN BASIS		REMARKS
				ANGLE	HEIGHT	TYPE	INPUT CFH	VOLT	PHASE	AMPS	MAKE	MODEL NUMBER	
GUH-1	DELIVERY/PICK-UP/STORAGE 138	POWER VENTED	24,000	45 DEGREES	9'-0"	NATURAL	30	120	1	3.7	MODINE	HDS30	24V DIRECT SPARK IGNITION CONTROL w/ PROGRAMMABLE THERMOSTAT; ANGLE MOUNTING KIT; MODINE 3" VERTICAL CONCENTRIC VENT KIT

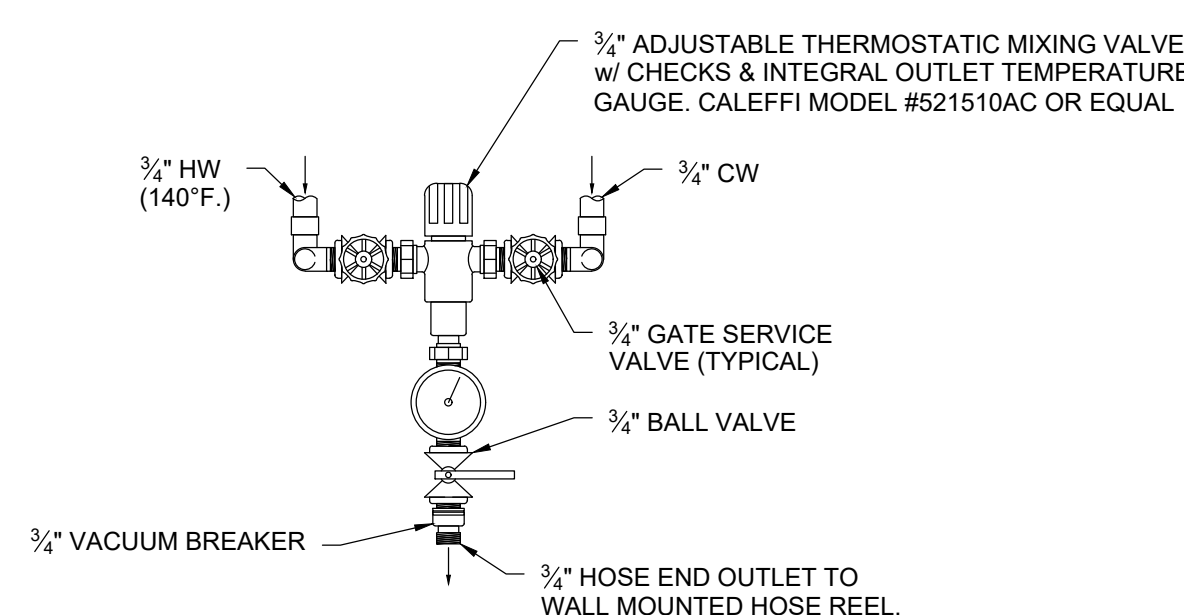
**GAS FIRED DOMESTIC WATER HEATER SCHEDULE**

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER AND MODEL NUMBER	CAPACITIES		GAS DATA		NOTES/ACCESSORIES	
				RECOVERY GPH	GALLON CAPACITY	TEMP. RISE	CFH INPUT		TYPE
DWH-1	DOMESTIC WATER (110d.F.)	EXISTING MECHANICAL ROOM 144	A.O. SMITH BTH-199A Mxi CYCLONE	392	100	60 deg F	200	NATURAL	A, B, C, D
DWH-2	DOMESTIC WATER (140d.F.)	MECHANICAL/ELECTRICAL ROOM 117	A.O. SMITH BTH-300A Mxi CYCLONE	388.00	119	90 deg F	300	NATURAL	A, D, E, F

**NOTES:**  
**A.** ASME T&P RELIEF VALVE  
**B.** 3" PVC INTAKE & EXHAUST w/ ROOF TERMINATIONS  
**C.** WATTS MODEL #DETA-5 EXPANSION TANK  
**D.** TACO MODEL #003 DOMESTIC RECIRC PUMP w/ STRAP-ON AQUASTAT. 1/40 HP, 115V/1ph./60hz./0.43A  
**E.** 4" PVC INTAKE & EXHAUST w/ ROOF TERMINATIONS  
**F.** WATTS MODEL #DETA-20 EXPANSION TANK

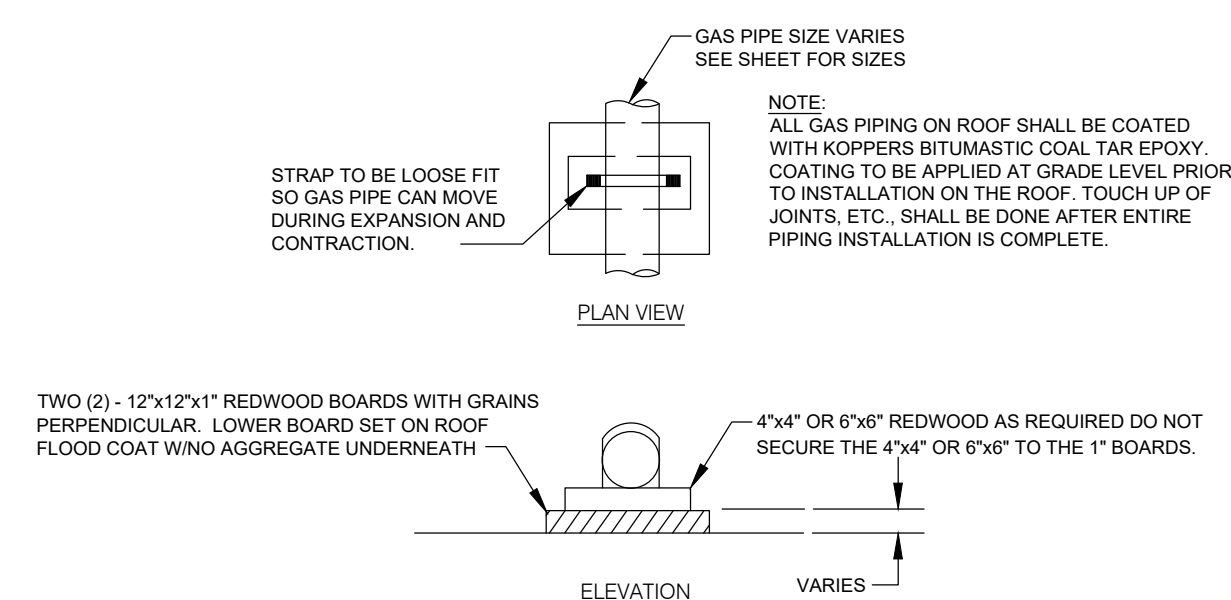


**TYPICAL DOMESTIC WATER HEATER PIPING DIAGRAM**  
SCALE: NONE



**TYPICAL HOSE REEL HR-1 PIPING DIAGRAM**  
SCALE: NONE

- NOTE:  
 1. SECURELY BRACKET BOTH INLET AND OUTLET PIPING TO MASONRY WALL WITH BALL VALVE AT 48" A.F.F.  
 2. MOUNT HOSE REEL AT 7'-0" A.F.F. TO BOTTOM OF REEL.



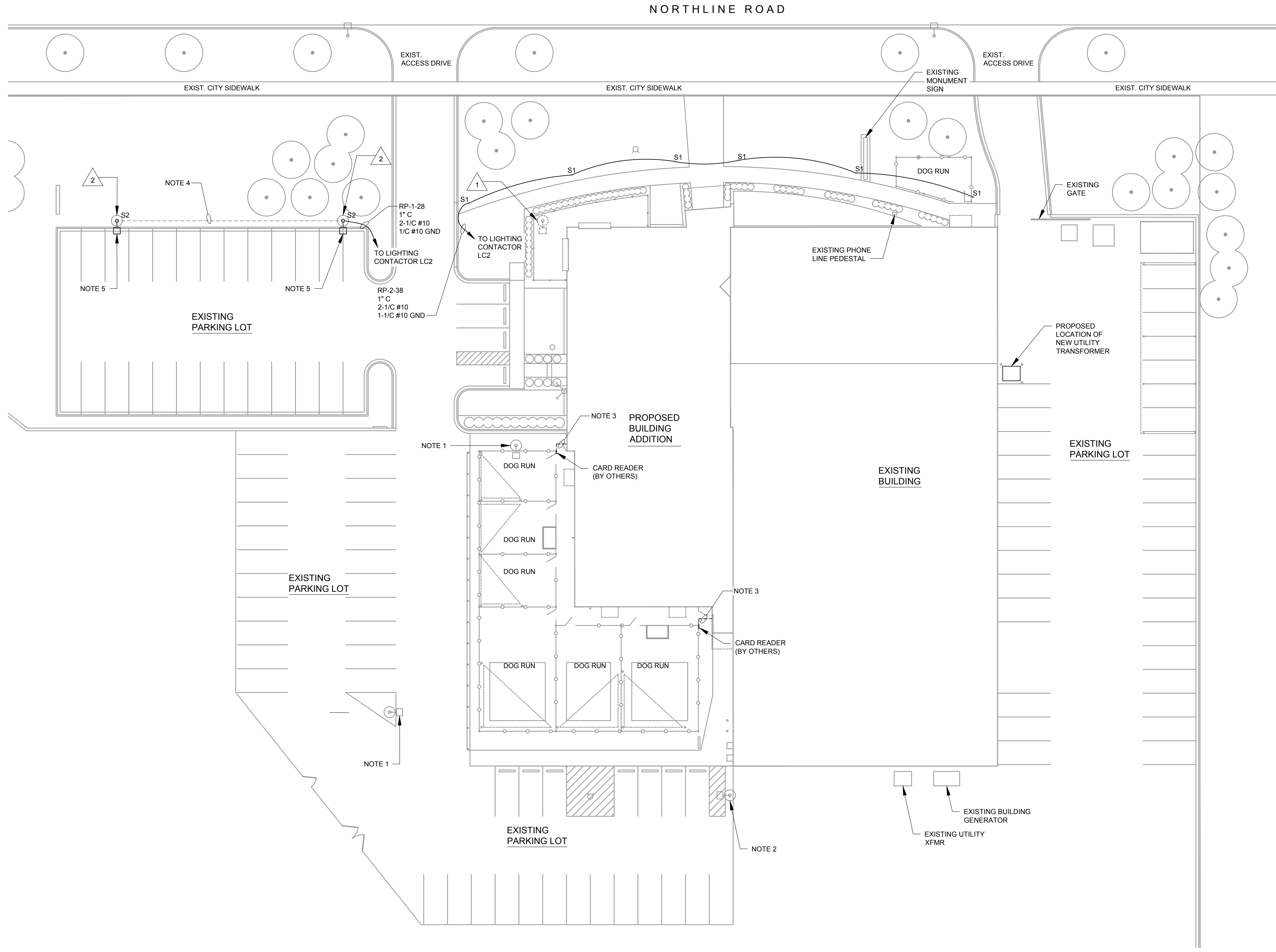
**DETAIL OF GAS PIPING ON ROOF**  
NO SCALE

**PLUMBING FIXTURE SCHEDULE**

TAG	FIXTURE	FIXTURE (DESIGN BASIS)			TRIM (DESIGN BASIS)		FIXTURE CONNECTION SIZES				REMARKS		
		MFR.	MODEL NAME	MODEL NO.	MFR.	MODEL NO.	ELEC REQ	CW	HW	WASTE		VENT	
WC-1 (A.D.A.)	WATER CLOSET - TANK TYPE (ADA)	AMERICAN STANDARD	CHAMPION PRO 2-PIECE 1.28 GPF CHAIR HEIGHT ELONGATED TOILET	211AA104 (1.28 GPF)	SLOW-CLOSE ELONGATED SEAT	AMERICAN STANDARD	5359C051H		1/2		4	2	A,B,C
WC-2	WATER CLOSET - TANK TYPE	AMERICAN STANDARD	CHAMPION PRO 2-PIECE 1.6 GPF STANDARD HEIGHT ELONGATED TOILET	211CA004 (1.6 GPF)	SLOW-CLOSE ELONGATED SEAT	AMERICAN STANDARD	5359C051H		1/2		4	2	A,B,C
UR-1	URINAL-WALL MOUNTED (ADA)	AMERICAN STANDARD	WASHBROOK 0.125 - 1.0 GPF TOP SPUD URINAL	6590001.020 (1.0 GPF)	FLUSH VALVE	SLOAN ROYAL	186-1 (1.0 GPF)		3/4		2	1 1/2	A
L-1 (A.D.A.)	WALL MOUNT LAVATORY	AMERICAN STANDARD	LUCERNE	355.012	4" CENTERSET SINGLE HANDLE FAUCET w/ LEVER HANDLE (0.5 GPFM)	AMERICAN STANDARD	7385050.002		1/2	1/2	1 1/2	1 1/2	A,B,C,D,E,F,G,H
S-1	15"x15"x7 1/8" 18GA. DEEP SINGLE COMPARTMENT SS SINK	ELKAY	LUSTERTONE CLASSIC STAINLESS STEEL 15" x 15" x 7-1/8" 1-HOLE SINGLE BOWL DROP-IN BAR SINK w/ FAUCET	BLR150C	FAUCET	ELKAY	LKD2223C (INCLUDED)		1/2	1/2	1 1/2	1 1/2	A,B,E,H
S-2	17"x20"x7 5/8" DEEP 18GA. SINGLE COMPARTMENT SS SINK	ELKAY	LUSTERTONE CLASSIC STAINLESS STEEL 17" x 20" x 7-5/8" 2-HOLE SINGLE BOWL DROP-IN SINK w/ FAUCET	LR1720C	FAUCET	ELKAY	LK406GN04T4C (INCLUDED)		1/2	1/2	1 1/2	1 1/2	A,B,E,H
S-3	33"x22"x8 1/8" DEEP 18 GA. DOUBLE COMPARTMENT SS SINK	ELKAY	LUSTERTONE CLASSIC STAINLESS STEEL 33" x 22" x 8-1/8" 3-HOLE DOUBLE BOWL DROP-IN SINK	LR3322PD	FAUCET	DELTA	2100LF		1/2	1/2	1 1/2	1 1/2	A,B,E,H
S-4	39" x 27-1/2" x 14" DEEP 14 GA. FLOOR MOUNT SINGLE COMPARTMENT SS SCULLERY SINK	ELKAY	WELDBILT STAINLESS STEEL 39" x 27-1/2" x 14" FLOOR MOUNT SINGLE COMPARTMENT SCULLERY SINK	WNSF81362	FAUCET STRAINER	ELKAY	LK940VS07T4S LKPDVR18B		1/2	1/2	1 1/2	1 1/2	A,E
S-5A	CAT WASH STATION	VECOR	34" S.S. PROFESSIONAL CAT GROOMING/WASH TUB w/ FAUCET AND WALK-IN RAMP	VV-PET34SSZKM	FAUCET	VECOR	INCLUDED		1/2	1/2	1 1/2	1 1/2	A,B,E,H
S-5B	DOG WASH STATION	VECOR	62" S.S. PROFESSIONAL DOG GROOMING/WASH TUB w/ FAUCET AND WALK-IN RAMP	VV-CWZG201BXG-62IN	FAUCET	VECOR	INCLUDED		1/2	1/2	1 1/2	1 1/2	A,B,E,H
SS-1	SERVICE SINK - FLOOR MOUNTED	MUSTEE		63M	SERVICE SINK FAUCET	MUSTEE	63.600A		1/2	1/2	2	1 1/2	I
SH-1	SHOWER	SYMMONS	TEMPTRON	C-96-1-X	FAUCET				3/4	3/4	2	-	J
RD-1	ROOF DRAIN	ZURN		Z164							-		K
DN-1	DOWNSPOUT NOZZLE	ZURN		Z199							-		K
WH-1	NON-FREEZE WALL HYDRANT	WOODFORD		B-67					0.75	-	-	-	K
FD-1	FLOOR DRAIN	ZURN		Z415-BZ1-DP							-	-	K
FD-2	FLOOR DRAIN	ZURN		ZN513-HL							-	-	K
FCO	CLEANOUT	ZURN		Z-1440							-	-	K,M
WCO	WALL CLEANOUT												K

- NOTES:**  
**A.** PROVIDE ALL SLEEVES, TEMPLATES, ETC. AS REQUIRED FOR ROUGH-IN OF FIXTURES. COORDINATE WITH ARCHITECTURAL TRADES.  
**B.** PROVIDE BRASSCRAFT COMMERCIAL ANGLE STOP(S) WITH SUPPLY RISER(S)  
**C.** COLOR: WHITE  
**D.** PROVIDE BRASSCRAFT 1 1/4" OFFSET DRAIN WITH TAILPIECE  
**E.** PROVIDE BRASSCRAFT 1 1/4" CHROME PLATED CAST BRASS P-TRAP  
**F.** PROVIDE WRAP ON SUPPLIES AND WASTE PIPING EQUAL TO MCGUIRE "PRO-WRAP"  
**G.** A.S. #7385.050 "RELIANT 3" LEVER HANDLE CENTERSET FAUCET w/ GRID DRAIN, 4" C.C.  
**H.** POWERS HYDROGUARD #141-650 TEMPERING VALVE  
**I.** 3" MOP SERVICE BASIN SEAL #65.309  
**J.** BOTTOM OF SHOWER HEAD SHALL BE 6'-6" AFF. 2" FLOOR DRAIN WITH 2" TRAP & NICKEL BRONZE TOP.  
**K.** SIZE AS NOTED ON DRAWINGS  
**L.** PROVIDE SURE SEAL INLINE FLOOR DRAIN TRAP SEALER  
**M.** FLOOR CLEANOUT WITH COUNTERSUNK PLUG - DURA COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, SIZE SAME AS DRAINAGE.





**ELECTRICAL SITE PLAN**  
 SCALE: 1" = 20'-0"

- GENERAL NOTES**
- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - B. REFER TO FIXTURE SCHEDULE ON DRAWING EL-600 FOR ADDITIONAL INFORMATION.
  - C. REFER TO ONE-LINE DIAGRAM ON EP-600 FOR ADDITIONAL INFORMATION.
  - D. REFER TO PANEL SCHEDULES ON EP-601 FOR ADDITIONAL INFORMATION.
  - E. REFER TO LIGHTING CONTACTOR LCI SCHEMATIC ON DRAWING EL-601 FOR ADDITIONAL INFORMATION.

- DEMOLITION NOTES:**
- 1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.
  - 2. DISCONNECT AND REMOVE EXISTING SITE LIGHT POLE MOUNTED FIXTURE AND POLE. EXISTING WIRING AND POLE BASE TO REMAIN. A NEW LIGHT POLE AND FIXTURE ARE TO BE INSTALLED UNDER THIS CONTRACT.

- NOTES**
- 1. EXISTING LIGHT POLE AND FIXTURE TO REMAIN.
  - 2. CONTRACTOR SHALL ROTATE EXISTING LIGHT FIXTURE ON POLE 180 DEGREES. FINAL DIRECTION OF EXISTING LIGHT FIXTURE SHALL BE POINTING WEST.
  - 3. FURNISH AND INSTALL 3/4" EMPTY CONDUIT WITH PULLSTRING FROM BUILDING TO CARD READER. CABLING SHALL BE FURNISHED AND INSTALLED BY OTHERS. COORDINATE FINAL REQUIREMENTS WITH SECURITY SYSTEM INSTALLATION CONTRACTORS PRIOR TO INSTALLATION.
  - 4. EXISTING CONDUIT AND CABLING TO REMAIN.
  - 5. FURNISH AND INSTALL NEW LIGHT FIXTURE AND POLE ON EXISTING LIGHT POLE BASE SAVED FOR REUSE DURING DEMOLITION. RECONNECT EXISTING CIRCUIT WIRING SAVED FOR REUSE DURING DEMOLITION. CONTRACTOR SHALL FURNISH AND INSTALL NEW WIRING AS REQUIRED TO EXTEND EXISTING CIRCUIT WIRING TO LOCATION OF NEW LIGHT FIXTURE ON POLE.

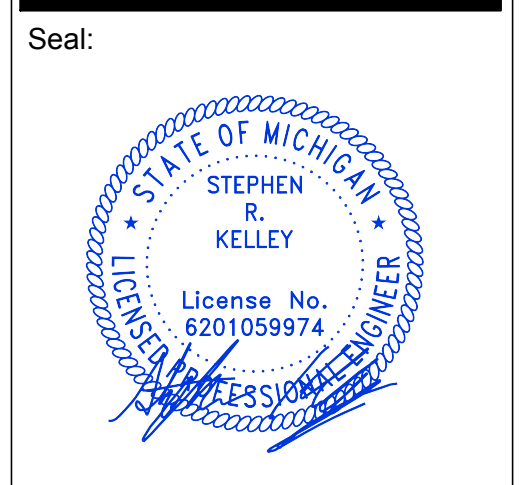
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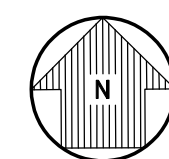
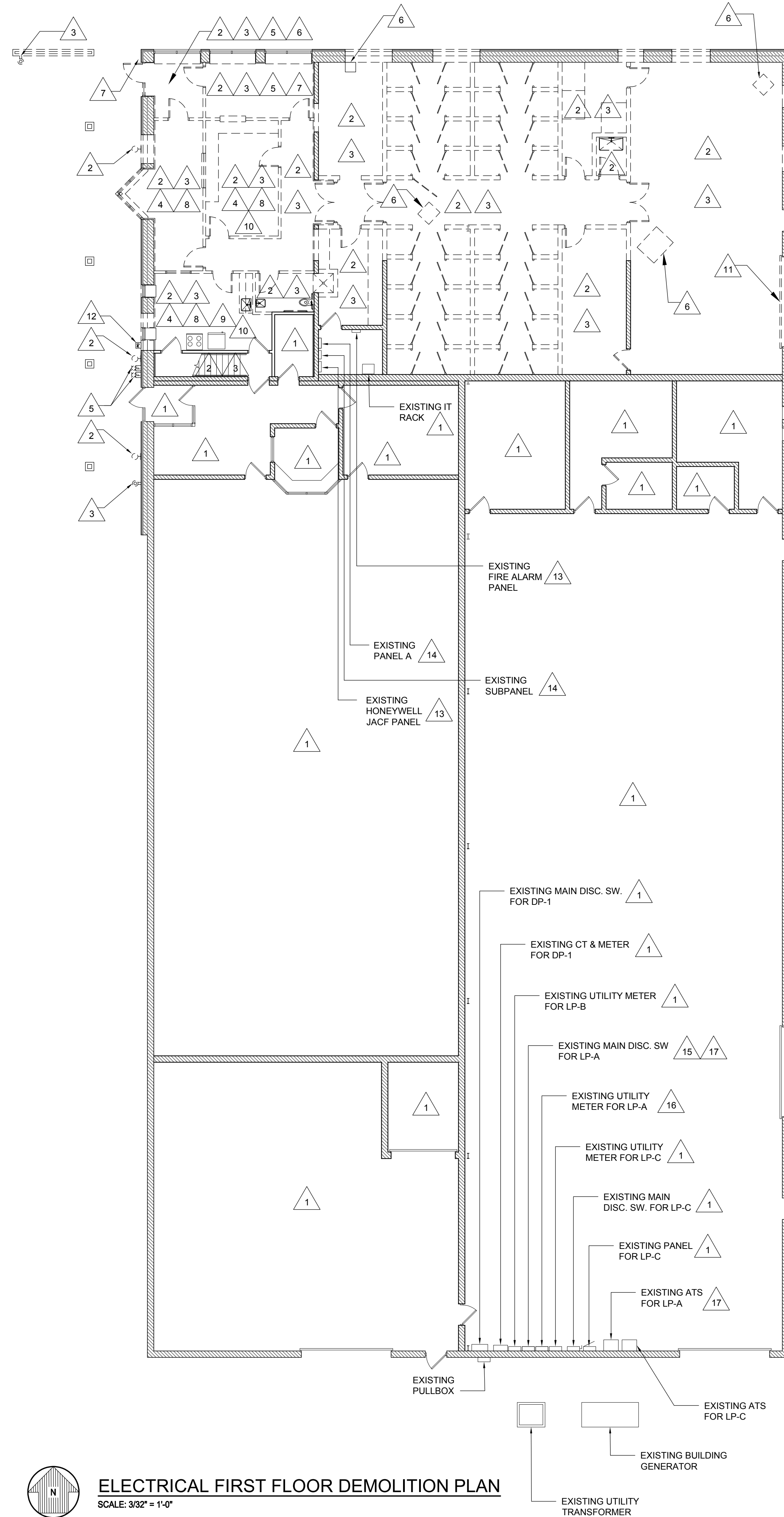
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 Approved: SRK

Sheet Title:  
**ELECTRICAL  
 SITE  
 PLAN**

Project Number: **22712.A**

Sheet Number: **ES-100**

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**ELECTRICAL FIRST FLOOR DEMOLITION PLAN**  
SCALE: 3/32" = 1'-0"

**GENERAL NOTES:**

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR GENERAL SCOPE OF DEMOLITION WORK REQUIRED UNDER THIS CONTRACT. CONTRACT AND COORDINATE WITH ELECTRICAL DEMOLITION WORK.
- C. EXTREME CARE SHALL BE TAKEN NOT TO DISRUPT ANY ELECTRICAL SERVICES THAT EXTEND BEYOND THE BOUNDARIES OF THE RENOVATION AREA AND ARE TO REMAIN DURING DEMOLITION. POWER TO EQUIPMENT OUTSIDE OF AREA OF RENOVATION SHALL NOT BE TURNED OFF WITHOUT PROPER PERMISSION FROM OWNER'S REPRESENTATIVE. ANY CIRCUITS AFFECTED BY THE RENOVATION WHICH ARE SCHEDULED TO REMAIN SHALL BE PROPERLY REWIRED TO MAINTAIN SERVICE AND COMPLIANCE WITH NATIONAL, STATE, AND LOCAL CODES.
- D. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL DEMOLITION WORK TO BE PERFORMED. LOCATIONS ARE APPROXIMATE. EXACT EXTENT OF DEMOLITION WORK SHALL BE AS REQUIRED BY NEW WORK TO BE PERFORMED.
- E. TEST AND VERIFY INTEGRITY OF ALL CIRCUITS REQUIRING DISCONNECTION OR MODIFICATION. UN-TERMINATE CONDUCTORS AT EACH END AND PERFORM MEGGER TEST. RE-TERMINATE AND VERIFY PROPER PHASE SEQUENCE/ROTATION. VERIFY GROUND CONNECTIONS.
- F. REFER TO EXISTING RISER DIAGRAM ON ED-600 FOR ADDITIONAL INFORMATION.

**DEMOLITION KEYED NOTES:**

- 1 EXISTING ELECTRICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
- 2 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.
- 3 DISCONNECT AND REMOVE EXISTING RECEPTACLE OUTLETS, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER POSITION AS SPARE.
- 4 DISCONNECT AND REMOVE EXISTING DATA OUTLETS, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 5 DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 6 DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT TO MECHANICAL UNIT, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER POSITION AS SPARE.
- 7 DISCONNECT AND REMOVE EXISTING SECURITY EQUIPMENT, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 8 DISCONNECT AND REMOVE EXISTING SPEAKER EQUIPMENT, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 9 DISCONNECT AND REMOVE EXISTING TIME CARD SYSTEM INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.
- 10 DISCONNECT AND REMOVE EXISTING WIFI EQUIPMENT INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. EQUIPMENT SHALL BE TURNED OVER TO OWNER.
- 11 DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT TO EXISTING OVERHEAD DOOR, INCLUDING, ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE.
- 12 DISCONNECT AND REMOVE EXISTING PHOTOCELL, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 13 DISCONNECT AND REMOVE EXISTING SERVICE FEED TO PANEL, INCLUDING ALL ASSOCIATED CONDUIT BACK TO SOURCE AND MARK CIRCUIT BREAKER AS SPARE. EXISTING PANEL TO BE RE-FED UNDER THE CONTRACT.
- 14 DISCONNECT AND REMOVE EXISTING PANEL, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 15 DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH, INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 16 DISCONNECT AND REMOVE EXISTING UTILITY METER.
- 17 DISCONNECT AND REMOVE EXISTING BRANCH FEEDER WIRING AND CONDUIT BETWEEN EXISTING ATS AND MAIN DISCONNECT SWITCH FOR PANEL LP-A. BRANCH FEED TO BE REPLACED UNDER THIS CONTRACT.



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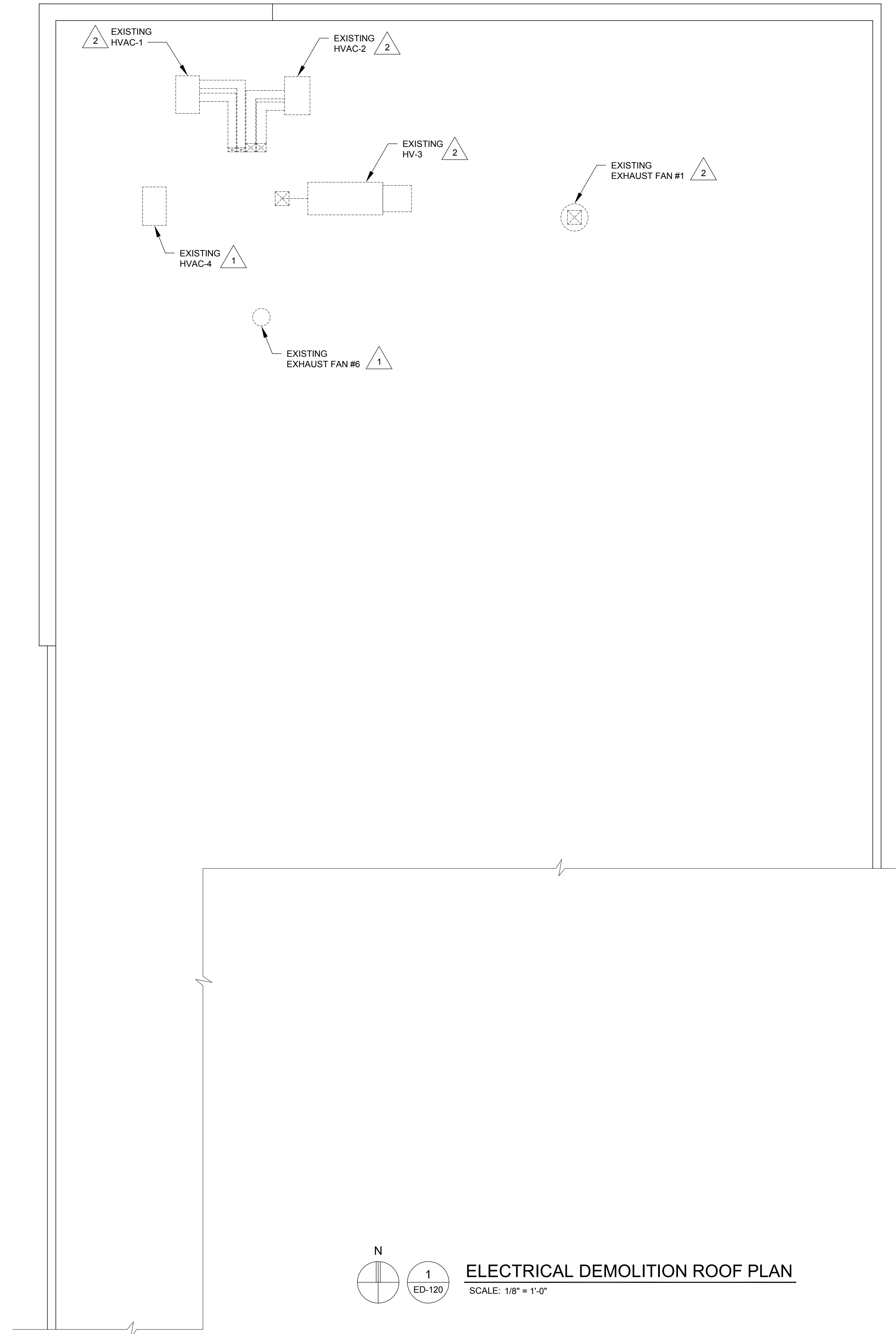
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Sheet Title:  
**ELECTRICAL  
FIRST FLOOR  
DEMOLITION PLAN**

Project Number: 22712.A

Sheet Number: **ED-110**

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**GENERAL NOTES:**

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- B. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR GENERAL SCOPE OF DEMOLITION WORK REQUIRED UNDER THIS CONTRACT. CONTRACT AND COORDINATE WITH ELECTRICAL DEMOLITION WORK.
- C. EXTREME CARE SHALL BE TAKEN NOT TO DISRUPT ANY ELECTRICAL SERVICES THAT EXTEND BEYOND THE BOUNDARIES OF THE RENOVATION AREA AND ARE TO REMAIN DURING DEMOLITION. POWER TO EQUIPMENT OUTSIDE OF AREA OF RENOVATION SHALL NOT BE TURNED OFF WITHOUT PROPER PERMISSION FROM OWNER'S REPRESENTATIVE. ANY CIRCUITS AFFECTED BY THE RENOVATION WHICH ARE SCHEDULED TO REMAIN SHALL BE PROPERLY REWIRED TO MAINTAIN SERVICE AND COMPLIANCE WITH NATIONAL, STATE, AND LOCAL CODES.
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- E. TEST AND VERIFY INTEGRITY OF ALL CIRCUITS REQUIRING DISCONNECTION OR MODIFICATION. UN-TERMINATE CONDUCTORS AT EACH END AND PERFORM MEGGER TEST. RE-TERMINATE AND VERIFY PROPER PHASE SEQUENCE/ROTATION. VERIFY GROUND CONNECTIONS.
- F. REFER TO EXISTING RISER DIAGRAM ON ED-600 FOR ADDITIONAL INFORMATION.

**DEMOLITION KEYED NOTES:**

- 1 EXISTING ELECTRICAL EQUIPMENT ASSOCIATED WITH UNIT TO REMAIN.
- 2 DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT ASSOCIATED WITH UNIT, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.



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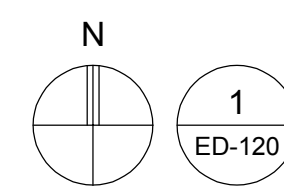
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Sheet Title:  
**ELECTRICAL  
DEMOLITION  
ROOF PLAN**

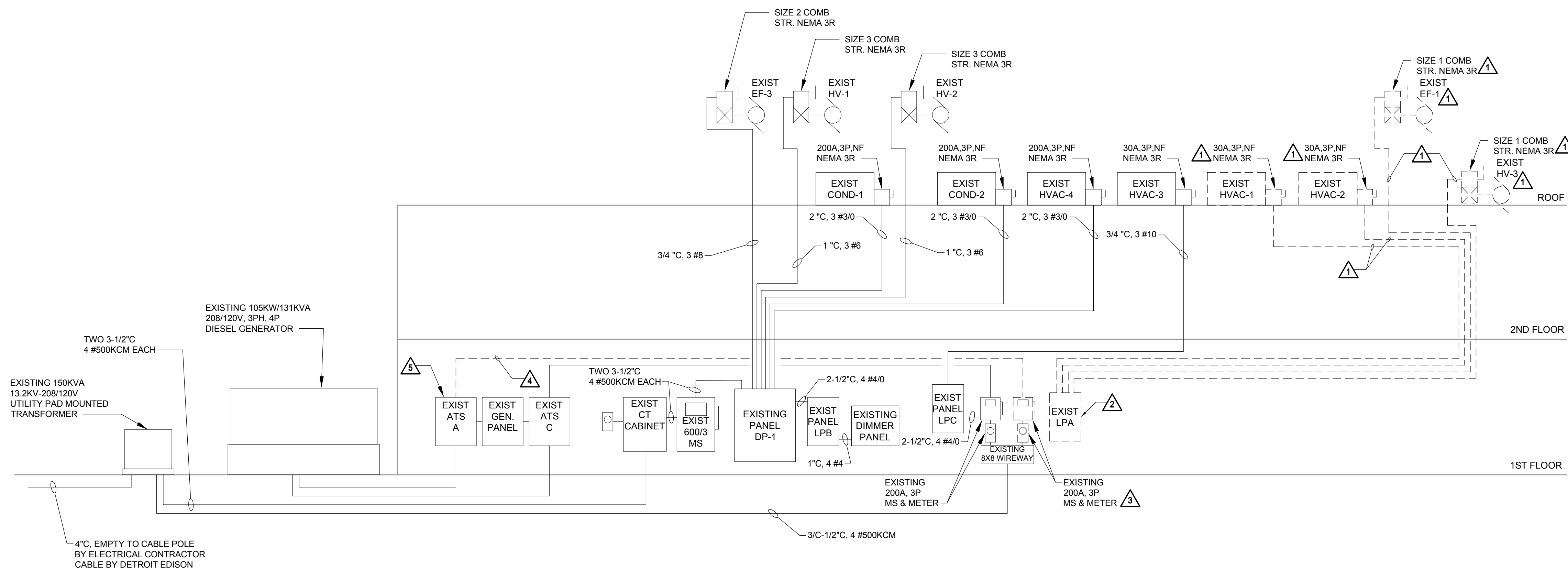
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**ELECTRICAL DEMOLITION ROOF PLAN**  
SCALE: 1/8" = 1'-0"

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**ELECTRICAL DEMOLITION RISER DIAGRAM**

SCALE: NTS  
NOTE 1

**GENERAL NOTES**

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- B. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL SCOPE OF DEMOLITION WORK REQUIRED UNDER THIS CONTRACT AND COORDINATE WITH ELECTRICAL DEMOLITION WORK.
- C. EXTREME CARE SHALL BE TAKEN NOT TO DISRUPT ANY ELECTRICAL SERVICES WHICH EXTEND BEYOND THE BOUNDARIES OF WORK AREA AND ARE TO REMAIN DURING DEMOLITION. POWER TO EQUIPMENT OUTSIDE OF AREA OF DEMOLITION SHALL NOT BE TURNED OFF WITHOUT PROPER PERMISSION FROM OWNER'S REPRESENTATIVE. ANY CIRCUITS AFFECTED BY THIS DEMOLITION, WHICH ARE SCHEDULED TO REMAIN SHALL BE PROPERLY REWIRED TO MAINTAIN SERVICE AND COMPLIANCE WITH ALL NATIONAL, STATE AND LOCAL CODES.

**DEMOLITION NOTES**

- 1. DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT ASSOCIATED WITH UNIT, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 2. DISCONNECT AND REMOVE EXISTING SERVICE AND BRANCH FEEDERS FROM EXISTING PANEL. EXISTING SERVICE FEEDER AND PANEL TO BE REPLACED UNDER THIS CONTRACT. BRANCH FEEDERS THAT ARE TO REMAIN SHALL BE RE-FED FROM NEW PANEL. REFER TO DRAWINGS EP-600 AND EP-601 FOR ADDITIONAL INFORMATION.
- 3. DISCONNECT AND REMOVE EXISTING UTILITY METER AND SERVICE DISCONNECT SWITCH, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- 4. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRING BETWEEN SERVICE DISCONNECT SWITCH AND AUTOMATIC TRANSFER SWITCH.
- 5. ABANDON IN PLACE.

**NOTES**

- 1. THE BUILDING RENOVATIONS AND ADDITION TO THE CITY OF TAYLOR ANIMAL SHELTER SHALL BE FED FROM A NEW UTILITY SERVICE TRANSFORMER. REFER TO DRAWING EP-600 FOR ADDITIONAL INFORMATION.

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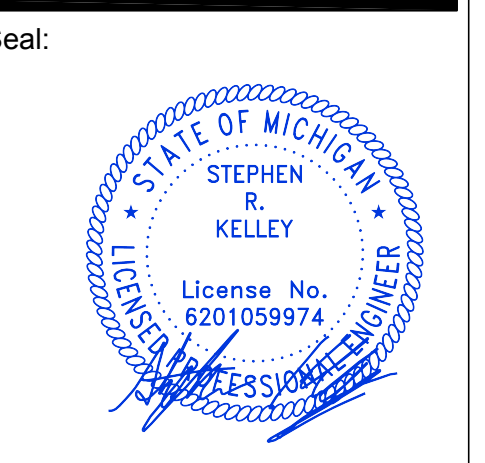
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RISER  
DIAGRAM**

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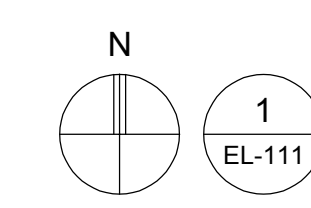
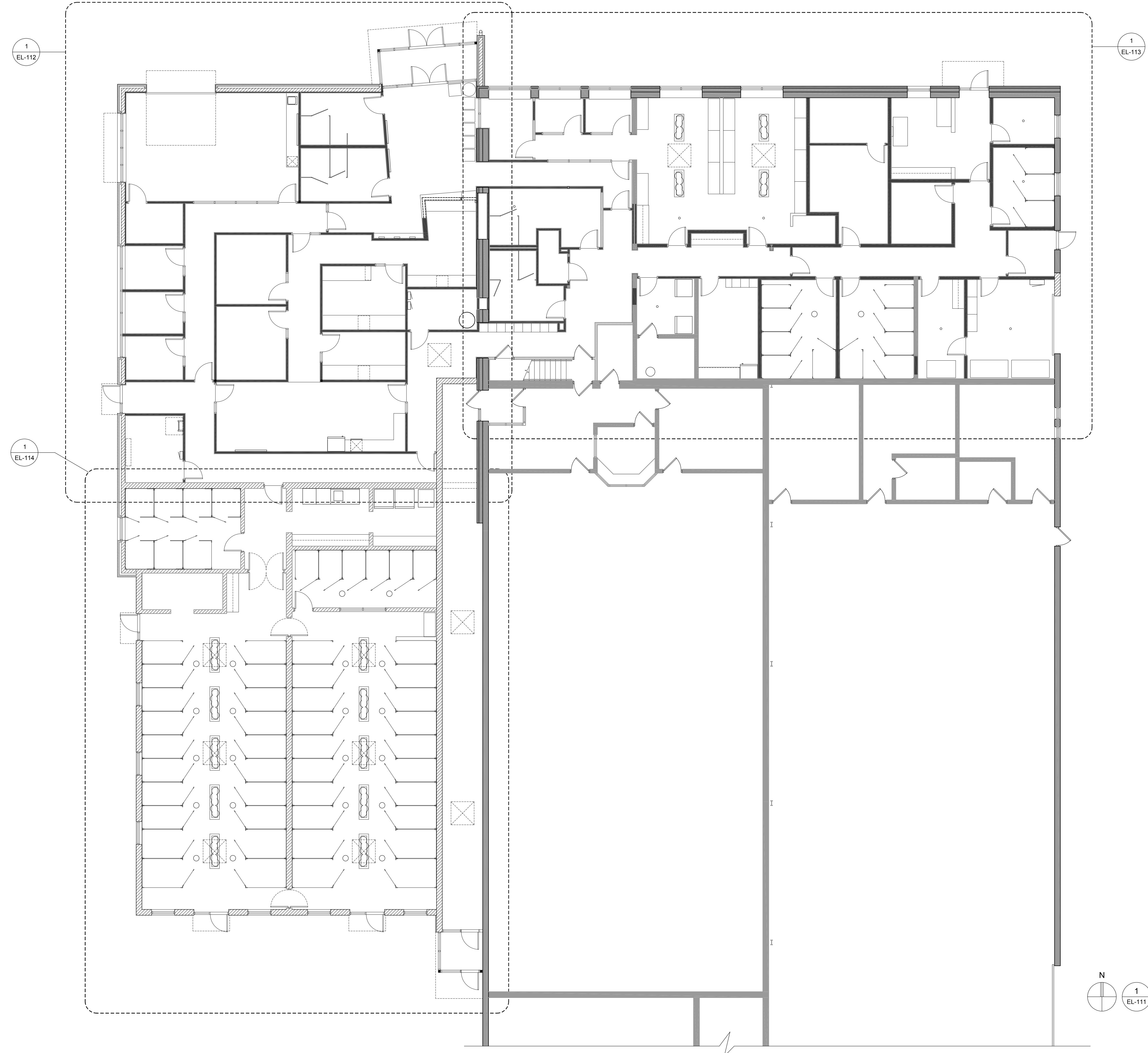
Drawn:	JDM
Checked:	LMR
Approved:	SRK

Sheet Title:  
**OVERALL ELECTRICAL LIGHTING FLOOR PLAN**

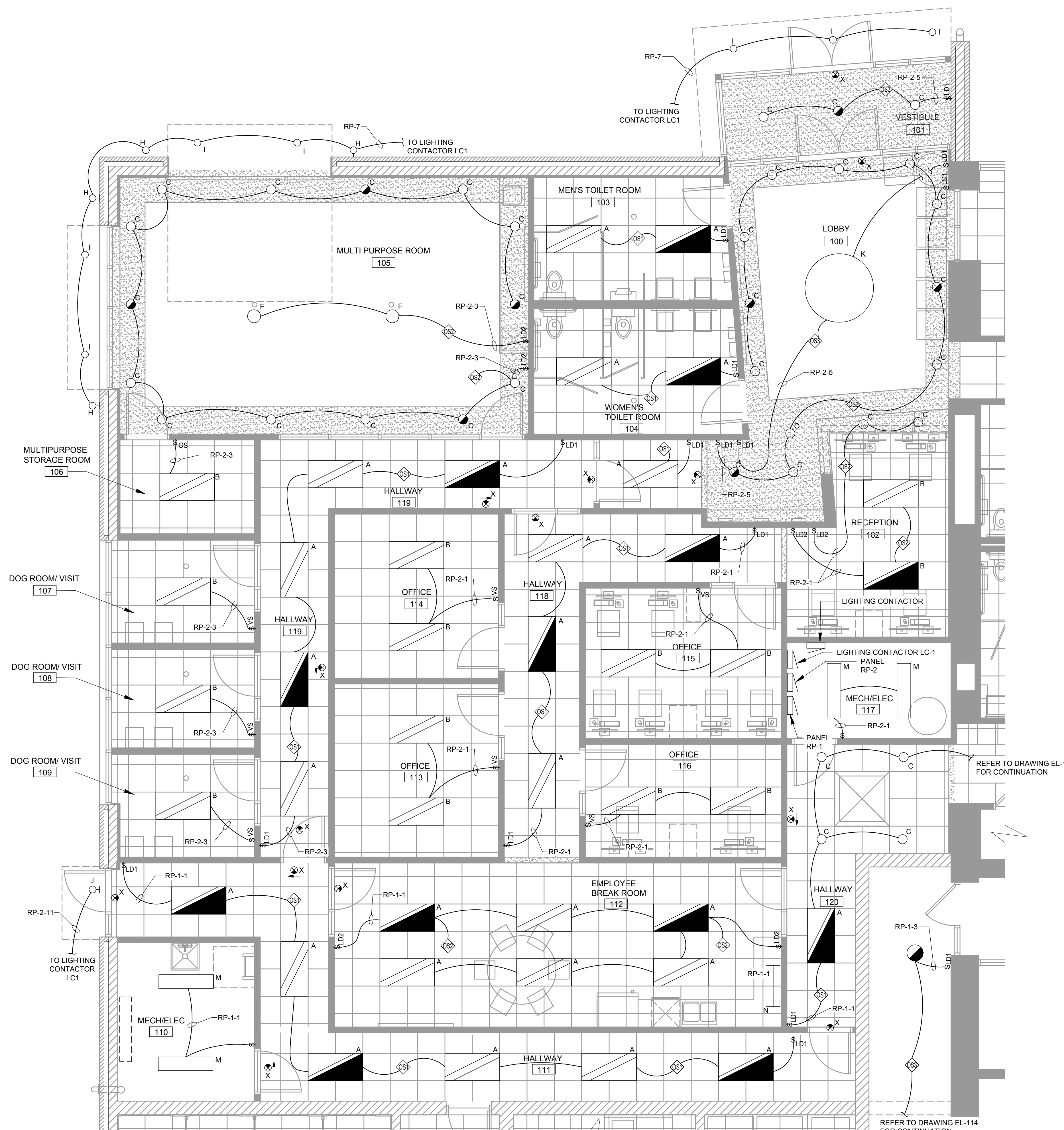
Project Number: **22712.A**

Sheet Number: **EL-111**

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**OVERALL ELECTRICAL LIGHTING FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"



**ENLARGED ELECTRICAL LIGHTING FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SUBJECT TO MINOR MODIFICATIONS BY THE OWNER/ENGINEER.
- C. COORDINATE EXACT LOCATION OF DEVICES WITH OTHER TRADES FOR AVOIDANCE OF ANY OBSTRUCTIONS. VERIFY WALL SWITCHING OF ELECTRICAL LIGHTING PLANS FOR PROPER TYPES OF OPTIONS REQUIRED ON ALL FIXTURES. VERIFY CEILING TYPES ON ARCHITECTURAL REFLECTED CEILING PLANS FOR PROPER INSTALLATIONS OF TRIMS AND FOR EXACT MOUNTING LOCATIONS ON ALL FIXTURES.
- D. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- E. LIGHTING FIXTURE MANUFACTURER AND MODEL SERIES SHOWN IN LIGHTING FIXTURE SCHEDULE AND ON PLAN ARE BASIS OF DESIGN. ALTERNATE MANUFACTURER AND EQUIPMENT LISTED THAT MEETS THE SALIENT CHARACTERISTICS OF THE LIGHTING FIXTURES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
- F. LIGHTING CONTROL SYSTEM MANUFACTURER IS BASIS OF DESIGN. ALTERNATE MANUFACTURERS OF THE LIGHTING CONTROL DEVICES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
- G. LIGHTING CONTROL AND SENSORS SHOWN ON DRAWINGS ARE INDICATED TO DEMONSTRATE DESIGN INTENT. ACTUAL NUMBERS AND LOCATIONS OF DEVICES SHALL BE AS RECOMMENDED BY THE LIGHTING CONTROL MANUFACTURER/SUPPLIER. CONTRACTOR SHALL FURNISH AND INSTALL POWER PACKS, AUXILIARY RELAYS, LOW VOLTAGE TRANSFORMERS, TRANSFORMER DEVICES, ETC. AS REQUIRED AND RECOMMENDED BY THE LIGHTING CONTROL SYSTEM MANUFACTURER/SUPPLIER.
- H. LETTER NEXT TO LIGHTING FIXTURE INDICATE FIXTURE TYPE. REFER TO FIXTURE SCHEDULE ON DRAWING EL-600 FOR ADDITIONAL INFORMATION.
- I. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.
- J. EMERGENCY AND EXIT LIGHTING FIXTURES TO BE INSTALLED UNDER THIS CONTRACT SHALL BE FED FROM THE SAME CIRCUIT AS NORMAL LIGHTING IN SPACE AND SHALL BE CONNECTED AHEAD OF THE SWITCH.

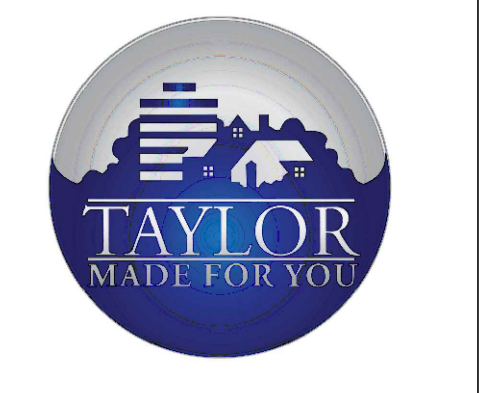
**NOTES**

1. FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH OR EQUIVALENT.
2. FURNISH AND INSTALL WALL MOUNTED DIMMING VACANCY SENSOR, ACUITY "SENSOR SWITCH" MODEL WSX PDT D VA WH OR EQUIVALENT.
3. FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH, NPODM WH OR EQUIVALENT.
4. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL CM PDT 10 OR EQUIVALENT.
5. FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH WITH DIMMING, NLIGHT MODEL NPODM DX WH OR EQUIVALENT.
6. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR CONTROL, NLIGHT MODEL NCM PDT 10 AR RJB OR EQUIVALENT.
7. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR WITH DAYLIGHTING CONTROL, NLIGHT MODEL NCM PDT 10 ADCX AR RJB OR EQUIVALENT.

**SYMBOLS**

- Ⓞ<sub>OS</sub> WALL MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 1
- Ⓞ<sub>VS</sub> WALL MOUNTED VACANCY SENSOR - REFER TO NOTE 2
- Ⓢ SINGLE POLE SWITCH
- Ⓞ<sub>LD1</sub> WALL MOUNTED ON/OFF SWITCH - REFER TO NOTE 3
- Ⓞ<sub>DS</sub> CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 4
- Ⓞ<sub>LD2</sub> WALL MOUNTED ON/OFF SWITCH WITH DIMMING - REFER TO NOTE 5
- Ⓞ<sub>DS</sub> CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 6
- Ⓞ<sub>DS</sub> CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTOCELL - REFER TO NOTE 7

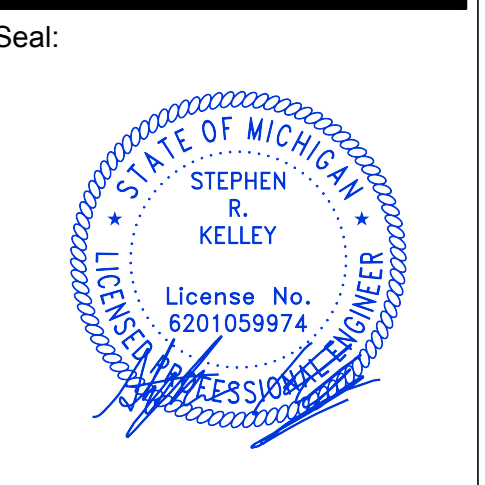
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**City of Taylor**  
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 Taylor, MI 48180

Project:  
**City of Taylor**  
 Animal Shelter  
 Remodel & Expansion

25555 Northline Rd.  
 Taylor, MI 48180



Date	Issued For
10-18-2023	50% COMPLETE REVIEW
12-21-2023	OWNER REVIEW
10-17-2024	PERMIT REVIEW

Drawn: JDM  
 Checked: LMR  
 Approved: SRK

Sheet Title:  
**ENLARGED ELECTRICAL LIGHTING FLOOR PLAN**

Project Number: 22712.A

Sheet Number: **EL-112**

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23555 Goddard Rd.  
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Project:  
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**Animal Shelter**  
**Remodel & Expansion**

25555 Northline Rd.  
Taylor, MI 48180



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PERMIT REVIEW

Drawn: JDM  
Checked: LKR  
Approved: SRK

Sheet Title:

**ENLARGED**  
**ELECTRICAL**  
**LIGHTING PLAN**

Project Number: 22712.A

Sheet Number: **EL-113**

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**GENERAL NOTES**

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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- C. COORDINATE EXACT LOCATION OF DEVICES WITH OTHER TRADES FOR AVOIDANCE OF ANY OBSTRUCTIONS. VERIFY WALL SWITCHING OF ELECTRICAL LIGHTING PLANS FOR PROPER TYPES OF OPTIONS REQUIRED ON ALL FIXTURES. VERIFY CEILING TYPES ON ARCHITECTURAL REFLECTED CEILING PLANS FOR PROPER INSTALLATIONS OF TRIMS AND FOR EXACT MOUNTING LOCATIONS ON ALL FIXTURES.
- D. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- E. LIGHTING FIXTURE MANUFACTURER AND MODEL SERIES SHOWN IN LIGHTING FIXTURE SCHEDULE AND ON PLAN ARE BASIS OF DESIGN. ALTERNATE MANUFACTURER AND EQUIPMENT LISTED THAT MEETS THE SALIENT CHARACTERISTICS OF THE LIGHTING FIXTURES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
- F. LIGHTING CONTROL SYSTEM MANUFACTURER IS BASIS OF DESIGN. ALTERNATE MANUFACTURER AND EQUIPMENT LISTED THAT MEETS THE SALIENT CHARACTERISTICS OF THE LIGHTING CONTROL DEVICES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
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- H. LETTER NEXT TO LIGHTING FIXTURE INDICATE FIXTURE TYPE. REFER TO FIXTURE SCHEDULE ON DRAWING EL-600 FOR ADDITIONAL INFORMATION.
- I. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.
- J. EMERGENCY AND EXIT LIGHTING FIXTURES TO BE INSTALLED UNDER THIS CONTRACT SHALL BE FED FROM THE SAME CIRCUIT AS NORMAL LIGHTING IN SPACE AND SHALL BE CONNECTED AHEAD OF THE SWITCH.
- K. SHADING INDICATES AREAS OF EXISTING DEVICES, EQUIPMENT, AND FEEDERS THAT ARE TO REMAIN UNLESS OTHERWISE NOTED. AREAS FEATURING NO SHADING INDICATE WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT.

**NOTES**

- 1. FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH OR EQUIVALENT.
- 2. FURNISH AND INSTALL WALL MOUNTED DIMMING VACANCY SENSOR, ACUITY "SENSOR SWITCH" MODEL WSX PDT D VA WH OR EQUIVALENT.
- 3. FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH, NP0DM WH OR EQUIVALENT.
- 4. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL CM PDT 10 OR EQUIVALENT.
- 5. FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH WITH DIMMING, NLIGHT MODEL NP0DM DX WH OR EQUIVALENT.
- 6. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR CONTROL, NLIGHT MODEL NCM PDT 10 AR RJB OR EQUIVALENT.
- 7. FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH LT OR EQUIVALENT.
- 8. LIGHT FIXTURE LOCATED IN SPACE THAT IS WET LOCATION LISTED. FURNISH AND INSTALL LIGHT SWITCH WITH WEATHERPROOF COVER OR ENCLOSURE.
- 9. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR WITH DAYLIGHTING CONTROL, NLIGHT MODEL NCM PDT 10 ADCX AR RJB OR EQUIVALENT.

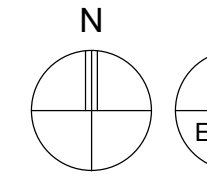
**SYMBOLS**

- ⓈOS WALL MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 1
- ⓈVS WALL MOUNTED VACANCY SENSOR - REFER TO NOTE 2
- Ⓢ SINGLE POLE SWITCH
- ⓈLD1 WALL MOUNTED ON/OFF SWITCH - REFER TO NOTE 3
- ⓈLD2 CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 4
- ⓈLD2 WALL MOUNTED ON/OFF SWITCH WITH DIMMING - REFER TO NOTE 5
- ⓈOS CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 6
- ⓈOSH WALL MOUNTED OCCUPANCY SENSOR HIGH HUMIDITY - REFER TO NOTE 7
- ⓈLD2 CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTOCELL - REFER TO NOTE 9

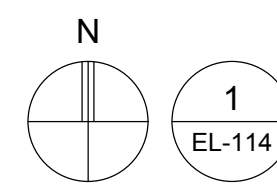
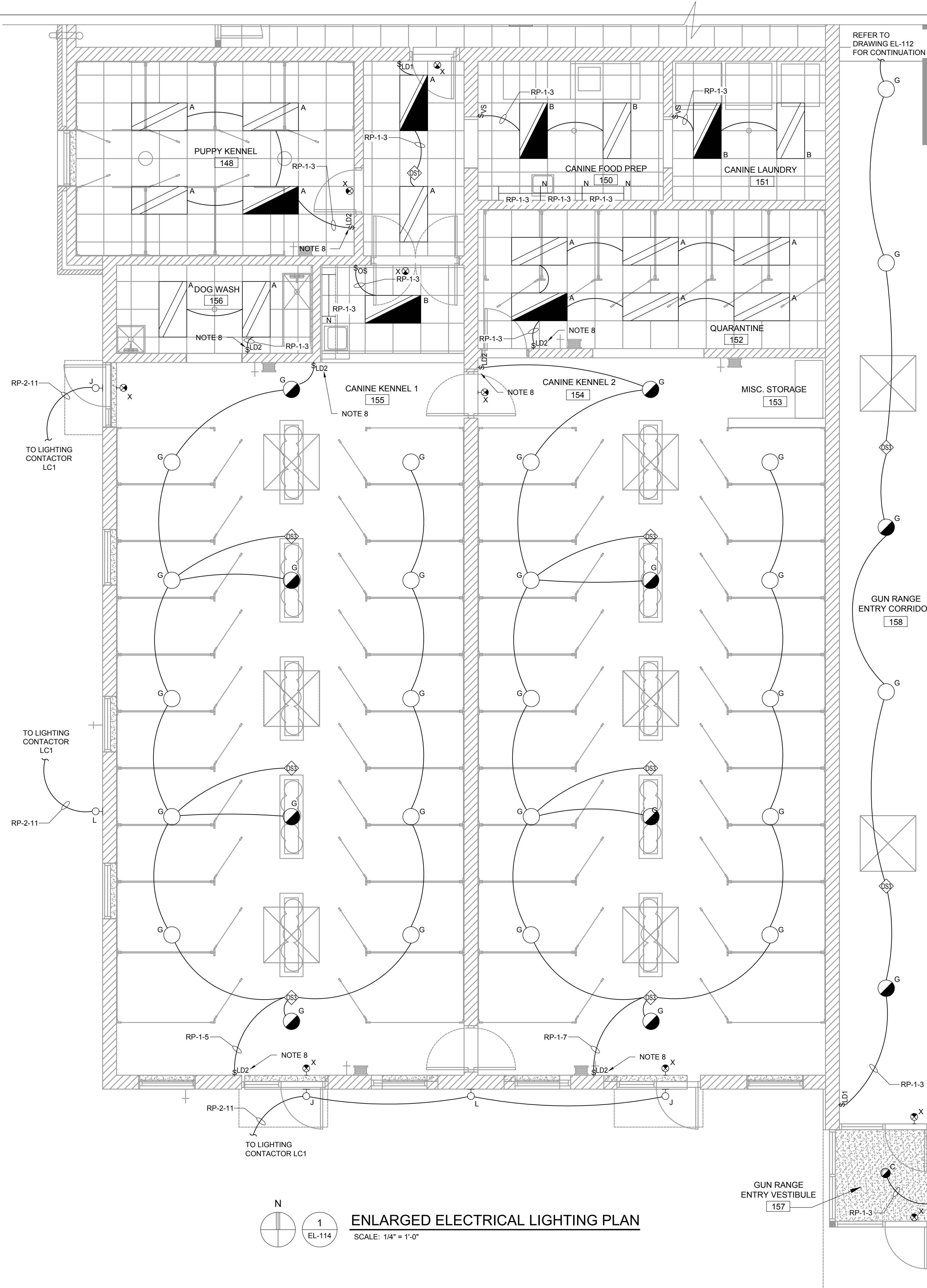


REFER TO DRAWING EL-112 FOR CONTINUATION

EXISTING HONEYWELL JACF PANEL  
EXISTING MECHANICAL ROOM  
EXISTING FIRE ALARM PANEL  
EXISTING IT RACK  
PANEL RP-3



**ENLARGED ELECTRICAL LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"



**ENLARGED ELECTRICAL LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

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- H. LETTER NEXT TO LIGHTING FIXTURE INDICATE FIXTURE TYPE. REFER TO FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
- I. REFER TO PANEL SCHEDULE ON DRAWING E-3 FOR ADDITIONAL INFORMATION.
- J. EMERGENCY AND EXIT LIGHTING FIXTURES TO BE INSTALLED UNDER THIS CONTRACT SHALL BE FED FROM THE SAME CIRCUIT AS NORMAL LIGHTING IN SPACE AND SHALL BE CONNECTED AHEAD OF THE SWITCH.

**NOTES**

1. FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH OR EQUIVALENT.
2. FURNISH AND INSTALL WALL MOUNTED DIMMING VACANCY SENSOR, ACUITY "SENSOR SWITCH" MODEL WSX PDT D VA WH OR EQUIVALENT.
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4. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL CM PDT 10 OR EQUIVALENT.
5. FURNISH AND INSTALL WALL MOUNTED ON/OFF SWITCH WITH DIMMING, NLIGHT MODEL NPODM DX WH OR EQUIVALENT.
6. FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR WITH DAYLIGHTING CONTROL, NLIGHT MODEL NCM PDT 10 ADCX AR RJB OR EQUIVALENT.
7. FURNISH AND INSTALL WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH MODEL WSX PDT WH LT OR EQUIVALENT.
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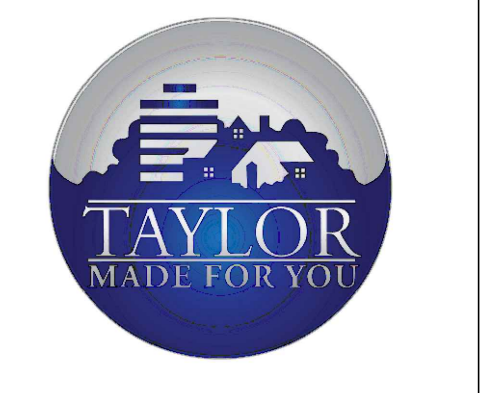
**SYMBOLS**

- OS WALL MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 1
- VS WALL MOUNTED VACANCY SENSOR - REFER TO NOTE 2
- S SINGLE POLE SWITCH
- LD1 WALL MOUNTED ON/OFF SWITCH - REFER TO NOTE 3
- CS CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 4
- LD2 WALL MOUNTED ON/OFF SWITCH WITH DIMMING - REFER TO NOTES
- CS2 CEILING MOUNTED OCCUPANCY SENSOR - REFER TO NOTE 6
- CS3 CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTOCELL - REFER TO NOTE 7

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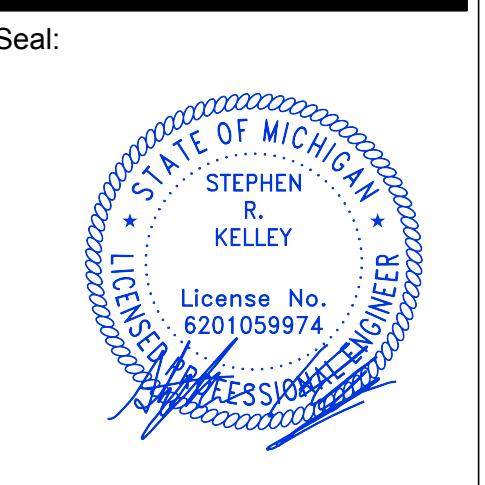
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12-21-2023	OWNER REVIEW
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Drawn: JDM  
Checked: LKR  
Approved: SRK

Sheet Title:  
**ENLARGED ELECTRICAL LIGHTING PLAN**

Project Number: 22712.A

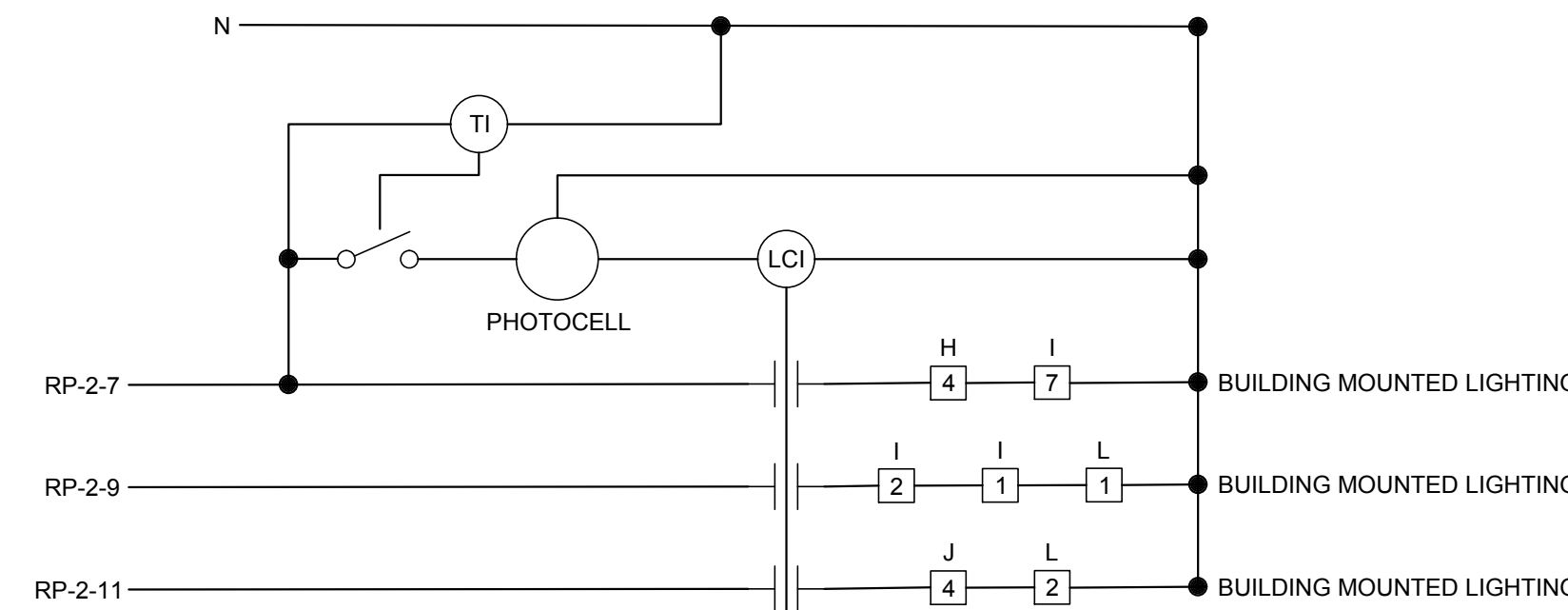
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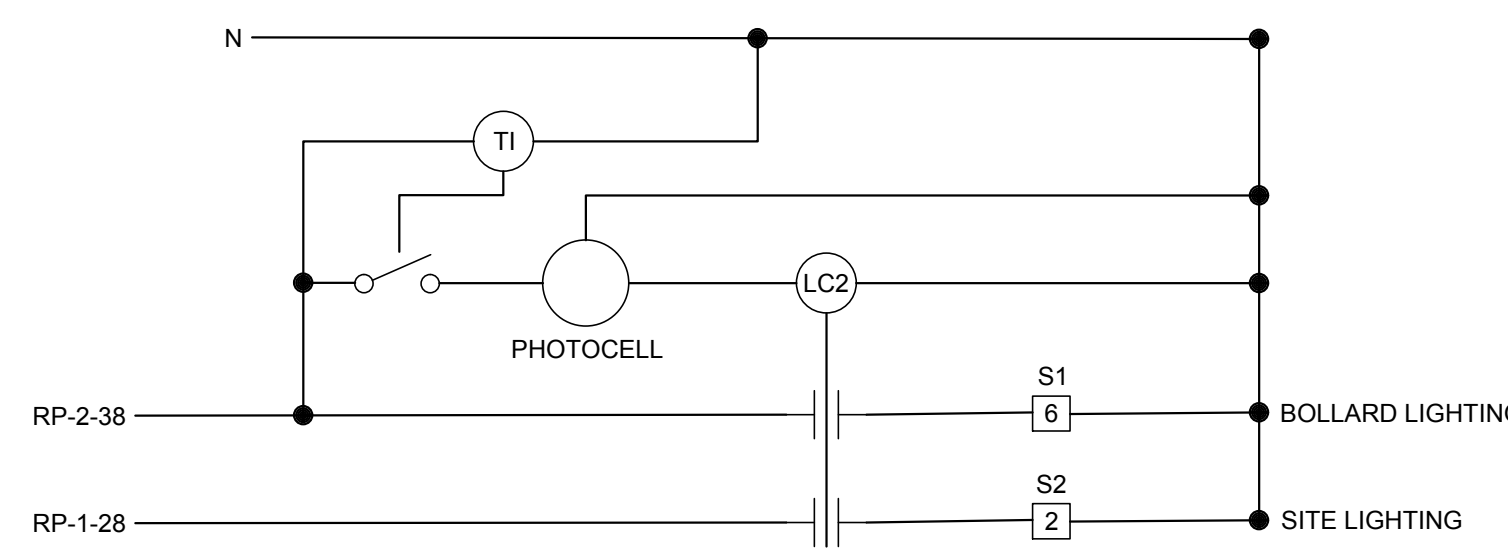
FIXTURE SCHEDULE						
SYMBOL	TYPE	SIZE AND MOUNTING	VOLTAGE (INPUT WATTAGE)	LAMPS AND LUMENS	MANUFACTURER / CATALOG NUMBER	REMARKS
	A	2' X 4' (NOMINAL) RECESSED TROFFER	120V (24.1W)	4000K WHITE LIGHT EMITTING DIODES - 3,269 LUMENS (NOMINAL)	LITHONIA "STACK" SERIES - STAK 2X4 3000 LM 80CRI 40K COL MIN10 ZT MVOLT	NOTE 8
	B	2' X 4' (NOMINAL) RECESSED TROFFER	120V (33.2W)	4000K WHITE LIGHT EMITTING DIODES - 4,255 LUMENS (NOMINAL)	LITHONIA "STACK" SERIES - STAK 2X4 4000 LM 80CRI 40K COL MIN10 ZT MVOLT	NOTE 8
	C	6" DIA (NOMINAL) DOWNLIGHT	120V (10.44W)	4000K WHITE LIGHT EMITTING DIODES - 952 LUMENS (NOMINAL)	LITHONIA "LDN6" SERIES - LDN6 40/10 L06AR LSS TRW MVOLT GZ10	NOTE 9
	D	6" DIA (NOMINAL) SHOWER DOWNLIGHT	120V (14.7W)	4000K WHITE LIGHT EMITTING DIODES - 980 LUMENS (NOMINAL)	GOTHAM "EVO SHOWER" SERIES - EVO6SH 40/15 DFR SMO MVOLT EZ1	
	E	2' X 2' (NOMINAL) RECESSED TROFFER	120V (33.3W)	4000K WHITE LIGHT EMITTING DIODES - 4,255 LUMENS (NOMINAL)	LITHONIA "STACK" SERIES - STAK 2X2 4000LM 80CRI 40K COL MIN10 ZT	NOTE 8
	F	36" DIA (NOMINAL) PENDANT	120V (28.4W)	4000K WHITE LIGHT EMITTING DIODES - 2,779 LUMENS (NOMINAL)	EUREKA "ATOLL-4850" - 4850-60 D LED 40 90 120V DV RDP RCA BLKE	NOTE 4
	G	19" DIA (NOMINAL) ROUND LOWBAY	120V (43W)	4000K WHITE LIGHT EMITTING DIODES - 6,253 LUMENS (NOMINAL)	LITHONIA "VCVL" SERIES - VCVL LED V4 P3 80CRI T5M MVOLT AC6 DBLXD	NOTES 1,10
	H	WALL SCONCE	120V (60W)	4000K WHITE LIGHT EMITTING DIODES - 6,610 LUMENS (NOMINAL)	METEOR "LANCE 6" SERIES - LA6 60 408 UNV NOD 40 40 BLK NO OUT	NOTE 2
	I	4" DIA (NOMINAL) SURFACE MOUNTED DOWNLIGHT WET LOCATION	120V (10.58W)	4000K WHITE LIGHT EMITTING DIODES - 1045 LUMENS (NOMINAL)	LITHONIA "LDN4CYL" SERIES - LDN4CYL 40/10 L04 AR LSS MVOLT GZ10 FCM WL DBL	
	J	EXTERIOR MANDOR WALLPACK	120V (15W)	4000K WHITE LIGHT EMITTING DIODES - 1,978 LUMENS (NOMINAL)	LITHONIA "WDGE" LED - WDGE 1 LED 40K 8CRI VF MVOLT SRM E4WH DBLXD	NOTE 3
	K	60" DIA (NOMINAL) PENDANT	120V (48.7W)	4000K WHITE LIGHT EMITTING DIODES - 4759 LUMENS (NOMINAL)	EUREKA "ATOLL-4856" - 4850-60 D LED 40 90 120V DV RDP AC RCA BLKE	NOTE 4

FIXTURE SCHEDULE						
SYMBOL	TYPE	SIZE AND MOUNTING	VOLTAGE (INPUT WATTAGE)	LAMPS AND LUMENS	MANUFACTURER / CATALOG NUMBER	REMARKS
	L	WALLPACK	120V (88W)	4000K WHITE LIGHT EMITTING DIODES - 12,277 LUMENS (NOMINAL)	LITHONIA "WDGE" SERIES - WDGE 3 P4 40K 80CRI RFT MVOLT SRM E15WH DBLXD	NOTE 5
	M	1' X 4' (NOMINAL) SURFACE STRIP LIGHT	120V (25.5W)	4000K WHITE LIGHT EMITTING DIODES - 3,000 LUMENS (NOMINAL)	LITHONIA "CLX" SERIES - CLX L48 4000LV SEF RDL MVOLT G21 40K 80CRI WH	
	N	UNDERCABINET LIGHTING	120V (16.4W)	3,500K WHITE LIGHT EMITTING DIODES - 1,161 LUMENS (NOMINAL)	LITHONIA "UCES" SERIES - UCES 36IN SWW6 90CRI WH M6	
	X	EXIT LIGHT - CEILING OR WALL MOUNT	120V (4.3W)	RED LIGHT EMITTING DIODES	LITHONIA "LHQM" SERIES - LHQM LED HORO	NOTE 6,7
	S1	SITE BOLLARD	120V (5W)	3000K WHITE LIGHT EMITTING DIODES - 457 LUMENS (NOMINAL)	DELTA "WKB" SERIES - WKB L 7 SP 30 FX N XX INC ND-120	NOTE 11
	S2	SITE POLE MOUNTED LIGHT FIXTURES	120V (69W)	4000K WHITE LIGHT EMITTING DIODES - 8,988 LUMENS (NOMINAL)	LITHONIA "DSXO" SERIES - DSXO P3 40K 70CRI TFM MVOLT SPA DBXD	NOTE 12



**LIGHTING CONTACTOR LC1 (NOTE C)**

**NOTES**  
 1. FURNISH AND INSTALL LIGHTING CONTACTOR TO BE CONTROLLED BY PHOTOCELL AND TIME CLOCK, 3 POLE, 277VAC COILS, ELECTRICALLY HELD, NEMA 1 ENCLOSURE, SQUARE D 8903 MODEL SPG61V04K14. FURNISH AND INSTALL PHOTOCELL, INTERMATIC K4236C OR EQUAL. PHOTOCELL TO BE MOUNTED ON EXTERIOR OF BUILDING FACING NORTH. TIME CLOCK SHALL BE CAPABLE OF BEING SET BY OWNER.



**LIGHTING CONTACTOR LC2 (NOTE C)**

**NOTES**  
 1. FURNISH AND INSTALL LIGHTING CONTACTOR TO BE CONTROLLED BY PHOTOCELL AND TIME CLOCK, 3 POLE, 277VAC COILS, ELECTRICALLY HELD, NEMA 1 ENCLOSURE, SQUARE D 8903 MODEL SPG61V04K14. FURNISH AND INSTALL PHOTOCELL, INTERMATIC K4236C OR EQUAL. PHOTOCELL TO BE MOUNTED ON EXTERIOR OF BUILDING FACING NORTH. TIME CLOCK SHALL BE CAPABLE OF BEING SET BY OWNER.

**GENERAL NOTES**

- A. REFER TO ELECTRICAL SPECIFICATIONS ON DRAWING E-1 FOR ADDITIONAL INFORMATION.
- B. LIGHTING FIXTURE MANUFACTURER AND MODEL SERIES SHOWN IN LIGHTING FIXTURE SCHEDULE AND ON PLAN ARE BASIS OF DESIGN. ALTERNATE MANUFACTURER AND EQUIPMENT LISTED THAT MEETS THE SALIENT CHARACTERISTICS OF THE LIGHTING FIXTURES LISTED ARE ACCEPTABLE. THE ENGINEER RESERVES THE RIGHT FOR THE MANUFACTURER OR MANUFACTURERS REPRESENTATIVE TO PROVIDE PROOF THAT THE SELECTED EQUIPMENT MEETS ALL FUNCTIONS, PLANS, AND SPECIFICATIONS ARE MET OR EXCEEDED. ALL "OR EQUALS" ARE SUBJECT TO APPROVAL BY ARCHITECT-ENGINEER.
- C. EXTERIOR LIGHTING CONTROL DEVICES AND CONTROL SYSTEMS SHALL BE TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS PER ASHRAE 90.1 - 2013 SECTION 9.4.3. TESTING OF THIS SYSTEM SHALL BE PERFORMED BY AN APPROVED THIRD-PARTY. DOCUMENTATION CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET OR EXCEED ALL DOCUMENTED PERFORMANCE CRITERIA SHALL BE RECEIVED ONCE COMMISSIONING OF EXTERIOR LIGHTING CONTROL SYSTEM IS COMPLETE.

**NOTES**

- 1. REFER TO MOUNTING HEIGHTS ON LIGHTING PLANS FOR ADDITIONAL INFORMATION.
- 2. MOUNT BOTTOM OF FIXTURE 6'-0" ABOVE FINISHED FLOOR.
- 3. MOUNT BOTTOM OF FIXTURE 1'-0" ABOVE MANDOR FRAME.
- 4. MOUNT BOTTOM OF FIXTURE 10'-0" ABOVE FINISHED FLOOR.
- 5. MOUNT BOTTOM OF FIXTURE 16'-0" ABOVE FINISHED FLOOR.
- 6. FOR WALL MOUNTED FIXTURES, MOUNT BOTTOM OF FIXTURE 8'-0" ABOVE FINISHED FLOOR.
- 7. FIXTURE SHALL MEET NFPA LIFE SAFETY CODE 101 AND BE LISTED UNDER UL924.
- 8. FOR FIXTURES WITH HALF-SHADING ON FLOOR PLAN, FURNISH AND INSTALL FIXTURE WITH E15WLCP BATTERY PACK.
- 9. FOR FIXTURES WITH HALF-SHADING ON FLOOR PLAN, FURNISH AND INSTALL FIXTURE WITH E10WH BATTERY PACK.
- 10. FOR FIXTURES WITH HALF-SHADING ON FLOOR PLAN, FURNISH AND INSTALL FIXTURE WITH E10WH BATTERY PACK.
- 11. VERIFY MOUNTING REQUIREMENTS REQUIRED IN FIELD PRIOR TO ORDERING FIXTURE.
- 12. FURNISH AND INSTALL 15'-0" LIGHT POLE, LITHONIA LIGHTING SSA 15 4C DDBXD, WITH DM19AS MOUNTING. CONTRACTOR SHALL FIELD VERIFY EXISTING LIGHT POLE ANCHOR BOLT ORIENTATION AND COORDINATE WITH NEW LIGHT POLE FOR COMPATIBILITY PRIOR TO PURCHASE OF LIGHT POLE.

**LIGHTING CONTROL SEQUENCE OF OPERATION**

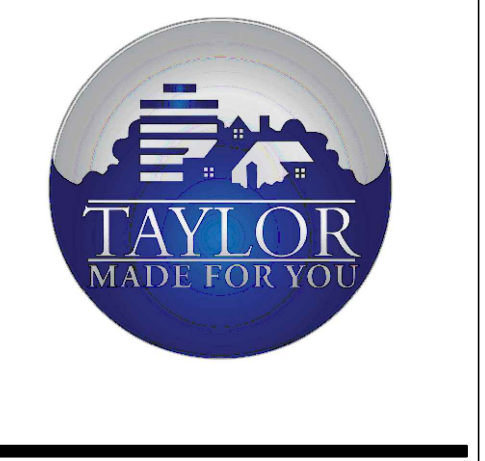
LIGHTING CONTROL SYSTEM HAS BEEN DESIGNED TO MEET SPECIFIC OPERATIONAL REQUIREMENTS AND FUNCTIONALITY AS FOLLOWS:

- 1. DOG ROOM/VISIT 107, DOG ROOM/VISIT 108, DOG ROOM/VISIT 109, OFFICE 113, OFFICE 114, OFFICE 115, OFFICE 116, CAT PLAY/VISIT ROOM 125, CAT PLAY ROOM 126, CAT PLAY ROOM 127, FELINE LAUNDRY 143, CAT HOLD/CAT RECOVERY 136, CAT ISO 133, DOG ISO 134, CAT WASH 129, CANINE LAUNDRY 146, CANINE FOOD PREP 145
  - a. CONTROLLED BY: WALL MOUNTED VACANCY SENSOR WITH DIMMING CONTROL NEAR DOOR OF EACH ROOM.
  - b. CIRCUIT CAPABILITY: SINGLE
  - c. TIME DELAY: SET FOR 10-MINUTE DELAY
  - d. SYSTEM BRANCH: NORMAL AND EMERGENCY
  - e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- 2. MECH/ELEC 110, MECH/ELEC 117, MECHANICAL ROOM 131
  - a. CONTROLLED BY: CONVENTIONAL WALL MOUNTED TOGGLE SWITCHES NEAR MAIN ACCESS DOOR(S). AUTOMATIC CONTROLS ARE EXEMPT FOR SAFETY REASONS.
  - b. CIRCUIT CAPABILITY: SINGLE.
  - c. TIME DELAY: NONE
  - d. SYSTEM BRANCH: NORMAL AND EMERGENCY
  - e. AUTOMATIC SWITCHING MODE: NONE
- 3. EMPLOYEE BREAK ROOM 112, INTAKE CHECK IN/QUEST VET 132
  - a. CONTROLLED BY: LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH LOCAL WALL MOUNTED ON/OFF DIMMER SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
  - b. CIRCUIT CAPABILITY: SINGLE.
  - c. TIME DELAY: SET FOR 10-MINUTE DELAY
  - d. SYSTEM BRANCH: NORMAL AND EMERGENCY
  - e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- 4. HALLWAY 111, HALLWAY 118, HALLWAY 119, MEN'S TOILET ROOM 103, WOMEN'S TOILET ROOM 104, EMPLOYEE WOMEN'S TOILET ROOM 121, EMPLOYEE MEN'S TOILET ROOM 122, HALLWAY 124, HALLWAY 120, HALLWAY 137, MISC. STORAGE 130, HALLWAY TO CANINE KENNEL, DELIVERY/PICKUP/STORAGE 138
  - a. CONTROLLED BY: LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH LOCAL WALL MOUNTED ON/OFF SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
  - b. CIRCUIT CAPABILITY: SINGLE.
  - c. TIME DELAY: SET FOR 10-MINUTE DELAY
  - d. SYSTEM BRANCH: NORMAL AND EMERGENCY
  - e. AUTOMATIC SWITCHING MODE: AUTOMATIC ON; MANUAL OR AUTOMATIC OFF.
- 5. RECEPTION 102
  - a. CONTROLLED BY: FIXTURE TYPE A & C CONTROLLED BY LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH LOCAL WALL MOUNTED ON/OFF DIMMER SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
  - b. CIRCUIT CAPABILITY: SINGLE
  - c. TIME DELAY: SET FOR 10-MINUTE DELAY
  - d. SYSTEM BRANCH: NORMAL AND EMERGENCY
  - e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- 6. LOBBY 100, VESTIBULE 101, GUN RANGE ENTRY CORRIDOR 152
  - a. CONTROLLED BY: LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH DAYLIGHTING CONTROL AND LOCAL WALL MOUNTED ON/OFF SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
  - b. CIRCUIT CAPABILITY: SINGLE.
  - c. TIME DELAY: SET FOR 10-MINUTE DELAY
  - d. SYSTEM BRANCH: NORMAL AND EMERGENCY
  - e. AUTOMATIC SWITCHING MODE: AUTOMATIC ON; MANUAL OR AUTOMATIC OFF.
- 7. FELINE KENNEL 128, CANINE KENNEL 1 149, CANINE KENNEL 2 148
  - a. CONTROLLED BY: LOCAL CEILING MOUNTED OCCUPANCY SENSOR(S) WITH DAYLIGHTING CONTROL AND LOCAL WALL MOUNTED ON/OFF SWITCHES WITH DIMMING AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
  - b. CIRCUIT CAPABILITY: SINGLE
  - c. TIME DELAY: SET FOR 10-MINUTE DELAY
  - d. SYSTEM BRANCH: NORMAL AND EMERGENCY
  - e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.
- 8. MULTIPURPOSE STORAGE ROOM 106, SHOWER 123, GUN RANGE ENTRY VESTIBULE 151
  - a. CONTROLLED BY: WALL MOUNTED OCCUPANCY SENSOR NEAR DOOR OF EACH ROOM.
  - b. CIRCUIT CAPABILITY: SINGLE
  - c. TIME DELAY: SET FOR 10-MINUTE DELAY
  - d. SYSTEM BRANCH: NORMAL AND EMERGENCY
  - e. AUTOMATIC SWITCHING MODE: AUTOMATIC ON; MANUAL OR AUTOMATIC OFF.
- 9. DOG HOLD 140, DOG RECOVERY 141, DOG WASH 150, PUPPY KENNEL 144, QUARANTINE 147
  - a. CONTROLLED BY: FIXTURE MOUNTED OCCUPANCY SENSOR(S) WITH LOCAL WALL MOUNTED ON/OFF DIMMER SWITCHES AT MAIN ACCESS DOOR(S) OR ENTRANCE FOR MANUAL OVERRIDE OF AUTOMATIC CONTROL.
  - b. CIRCUIT CAPABILITY: SINGLE.
  - c. TIME DELAY: SET FOR 10-MINUTE DELAY
  - d. SYSTEM BRANCH: NORMAL AND EMERGENCY
  - e. AUTOMATIC SWITCHING MODE: MANUAL ON; MANUAL OR AUTOMATIC OFF.

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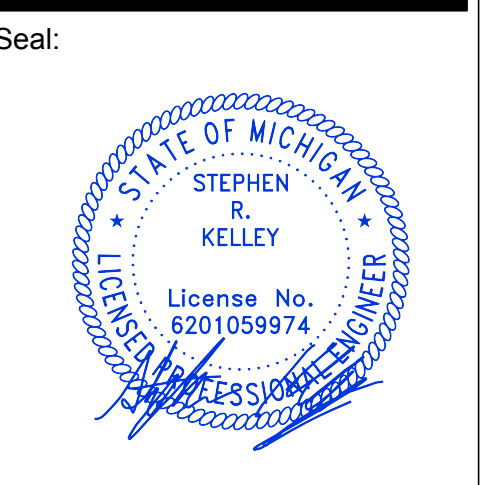
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 Remodel & Expansion

25555 Northline Rd.  
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Date Issued For  
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 12-21-2023 OWNER REVIEW  
 01-17-2024 PERMIT REVIEW

Drawn: JDM  
 Checked: LKR  
 Approved: SRK

Sheet Title:

**ELECTRICAL LIGHTING FIXTURE SCHEDULE**

Project Number: **22712.A**

Sheet Number: **EL-600**

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**GENERAL NOTES**  
 A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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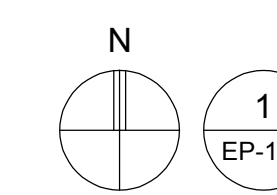
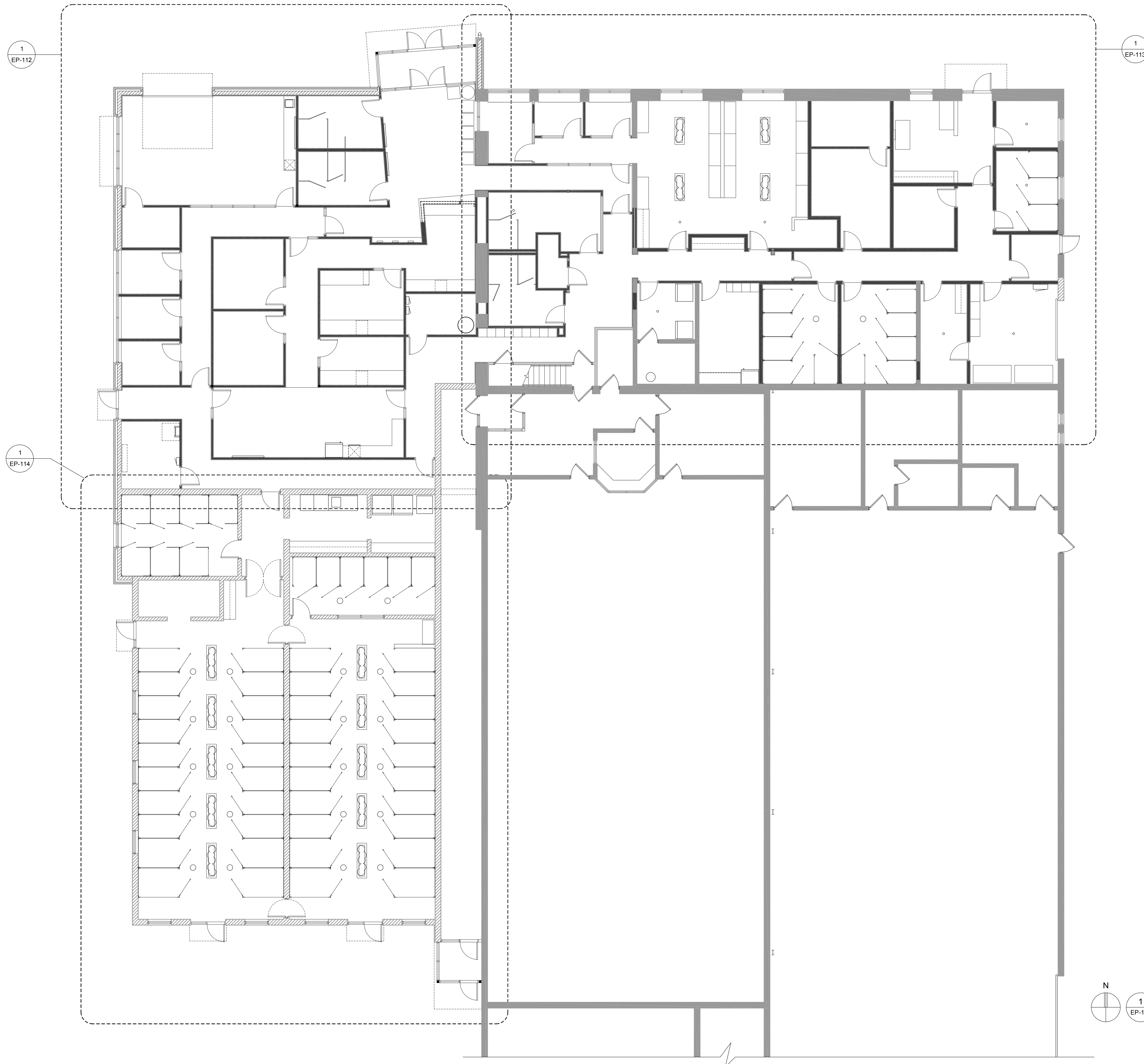
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**OVERALL  
 ELECTRICAL  
 POWER  
 FLOOR PLAN**

Project Number: 22712.A

Sheet Number: **EP-111**

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**OVERALL ELECTRICAL POWER FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"



1
ENLARGED ELECTRICAL POWER FLOOR PLAN  
 SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SUBJECT TO MINOR MODIFICATIONS BY THE OWNER/ENGINEER.
- C. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- E. REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- F. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.

**NOTES**

- 1. TYPICAL VOICE/DATA, WALL PHONES, AND DATA OUTLETS SHALL BE 4" X 4" X 2 3/4" BOX WITH SINGLE GANG MOD RING AND 1" CONDUIT WITH PULL STRING TO OPEN SPACE ABOVE NEAREST CEILING (NORMALLY IN SAME ROOM). VOICE/DATA CABLING AND TERMINATIONS SHALL BE FURNISHED AND INSTALLED BY OWNER'S IT CONTRACTOR.

**SYMBOLS**

- 20A DUPLEX RECEPTACLE
- 20A GFCI DUPLEX RECEPTACLE
- 20A GFCI OVERCOUNTER DUPLEX RECEPTACLE
- 20A OVERCOUNTER DUPLEX RECEPTACLE
- 20A GFCI WEATHERPROOF DUPLEX RECEPTACLE
- SPECIAL USE RECEPTACLE
- VOICE / DATA OUTLET - REFER TO NOTE 1
- WALL MOUNT PHONE OUTLET - REFER TO NOTE 1
- DATA OUTLET - REFER TO NOTE 1

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Sheet Title:  
**ENLARGED ELECTRICAL POWER FLOOR PLAN**

Project Number: 22712.A

Sheet Number: **EP-112**

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**GENERAL NOTES**

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C. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.

D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.

E. REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.

F. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.

G. SHADING INDICATES AREAS OF EXISTING DEVICES, EQUIPMENT, AND FEEDERS THAT ARE TO REMAIN UNLESS OTHERWISE NOTED. AREAS FEATURING NO SHADING INDICATE WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT.

**NOTES**

1. TYPICAL VOICE/DATA AND WALL PHONE OUTLETS SHALL BE 4" X 4" X 2 3/4" BOX WITH SINGLE GANG MUD RING AND 1" CONDUIT WITH PULL STRING TO OPEN SPACE ABOVE NEAREST CEILING (NORMALLY IN SAME ROOM). VOICE / DATA CABLING AND TERMINATIONS SHALL BE FURNISHED AND INSTALLED BY OWNERS IT CONTRACTOR.

2. OVERHEAD DOOR BASIS OF DESIGN: 3HP @ 208V, 3PH. OVERHEAD DOOR MOTOR SHALL INCLUDE CONTROLLER AND CONTROL PUSH BUTTONS. CONTRACTOR SHALL FURNISH AND INSTALL A 30A DISCONNECT SWITCH (FUUSED OR NON-FUSED PER OVERHEAD DOOR MANUFACTURER REQUIREMENTS) ADJACENT TO OVERHEAD DOOR CONTROLLER. FURNISH AND INSTALL CONDUIT AND WIRING TO LINE SIDE OF OVERHEAD DOOR CONTROLLER. COORDINATE ALL WORK WITH OVERHEAD DOOR INSTALLER.

3. RE-FEED EXISTING PANEL TO NEW PANEL RP-3 WITH 2-1/2" #12, 1 #12 GND IN 3/4" CONDUIT.

**SYMBOLS**

- 20A DUPLEX RECEPTACLE
- 20A GFCI DUPLEX RECEPTACLE
- 20A GFCI OVERCOUNTER DUPLEX RECEPTACLE
- 20A GFCI WEATHERPROOF DUPLEX RECEPTACLE
- 20A OVERCOUNTER DUPLEX RECEPTACLE
- VOICE / DATA OUTLET - REFER TO NOTE 1
- WALL MOUNT PHONE OUTLET - REFER TO NOTE 1

N  
  
**ENLARGED ELECTRICAL POWER PLAN**  
 SCALE: 1/4" = 1'-0"



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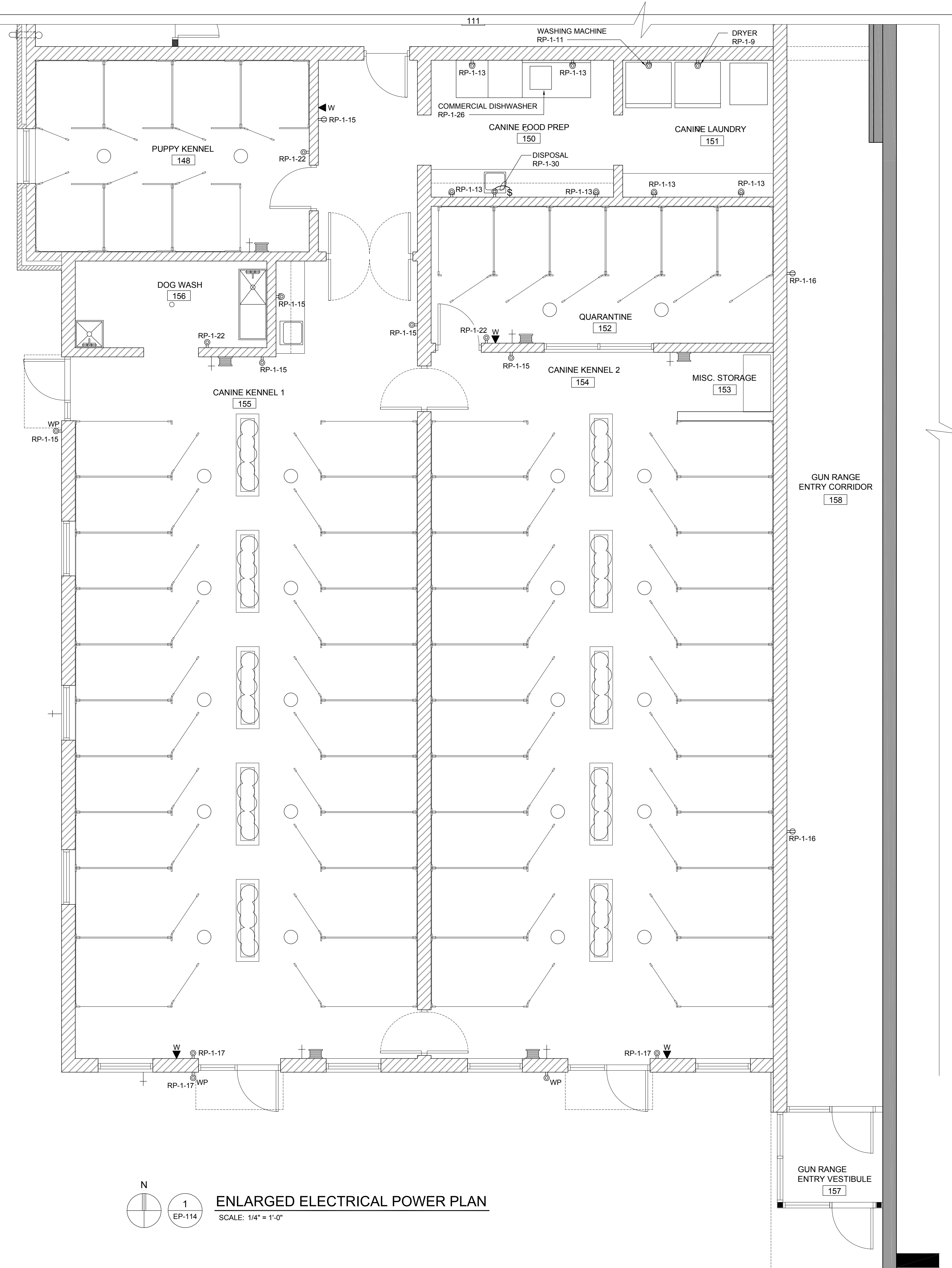
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Sheet Title:  
**ENLARGED ELECTRICAL POWER PLAN**

Project Number: **22712.A**

Sheet Number: **EP-113**

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**GENERAL NOTES**

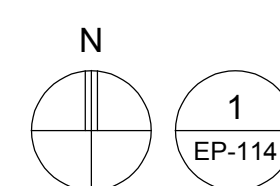
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- D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- E. REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- F. REFER TO PANEL SCHEDULE ON ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.

**NOTES**

- 1. TYPICAL WALL PHONE OUTLETS SHALL BE 4" X 4" X 2 3/4" BOX WITH SINGLE GANG MUD RING AND 1" CONDUIT WITH PULL STRING TO OPEN SPACE ABOVE NEAREST CEILING (NORMALLY IN SAME ROOM). VOICE/DATA CABLING AND TERMINATIONS SHALL BE FURNISHED AND INSTALLED BY OWNER'S IT CONTRACTOR.

**SYMBOLS**

- Ⓜ 20A DUPLEX RECEPTACLE
- Ⓜ 20A GFCI DUPLEX RECEPTACLE
- Ⓜ 20A GFCI OVERCOUNTER DUPLEX RECEPTACLE
- Ⓜ 20A GFCI WEATHERPROOF DUPLEX RECEPTACLE
- Ⓜ WP WALL MOUNT PHONE OUTLET - REFER TO NOTE 1



**ENLARGED ELECTRICAL POWER PLAN**

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



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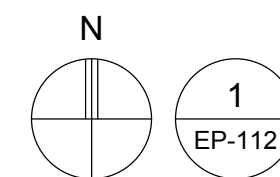
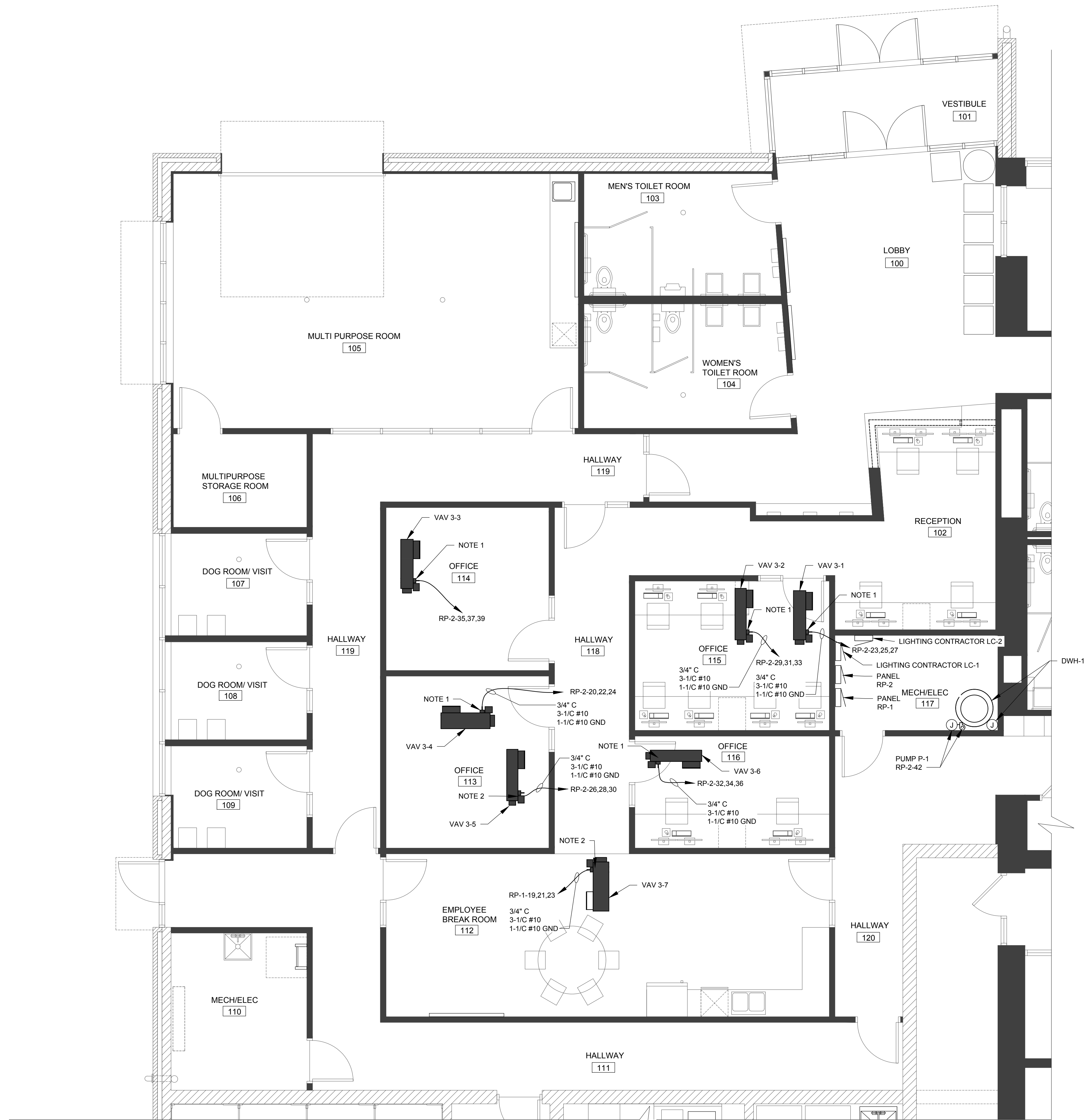
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**ENLARGED  
ELECTRICAL  
POWER PLAN**

Project Number: **22712.A**

Sheet Number: **EP-114**

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**ENLARGED ELECTRICAL POWER FLOOR PLAN**

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

**GENERAL NOTES**

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- B. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SUBJECT TO MINOR MODIFICATIONS BY THE OWNER/ENGINEER.
- C. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
- D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- E. REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- F. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.

**NOTES**

- 1. DISCONNECT SWITCH SUPPLIED WITH UNIT.



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Client:

City of Taylor  
23555 Goddard Rd.  
Taylor, MI 48180

Project:

City of Taylor  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180

Seal:



Date: 01-17-2024 Issued For: PERMIT REVIEW

Drawn: JDM  
Checked: LMR  
Approved: SRK

Sheet Title:

**ENLARGED  
ELECTRICAL/  
MECH. POWER  
FLOOR PLAN**

Project Number: 22712.A

Sheet Number: **EP-212**

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- GENERAL NOTES**
- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - B. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SUBJECT TO MINOR MODIFICATIONS BY THE OWNER/ENGINEER.
  - C. USE #12 CONDUCTORS FOR 20A CIRCUIT HOME RUNS IF BRANCH CIRCUIT RUN IS LESS THAN 100 FEET FOR 120 VOLT. USE #10 CONDUCTORS IF BRANCH CIRCUIT RUN EXCEEDS 100 FEET FOR 120 VOLT.
  - D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
  - E. REFER TO PARTIAL ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
  - F. REFER TO PANEL SCHEDULE ON DRAWING EP-601 FOR ADDITIONAL INFORMATION.
  - G. SHADING INDICATES AREAS OF EXISTING DEVICES, EQUIPMENT, AND FEEDERS THAT ARE TO REMAIN UNLESS OTHERWISE NOTED. AREAS FEATURING NO SHADING INDICATE WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT.

- NOTES**
1. DISCONNECT SWITCH SUPPLIED WITH UNIT.
  2. FURNISH AND INSTALL A SQUARE D CLASS 2510 TYPE KG1A MOTOR RATED MANUAL SWITCH WITH A NEMA 12 ENCLOSURE FOR UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.

**ENLARGED ELECTRICAL POWER PLAN**  
 SCALE: 1/4" = 1'-0"



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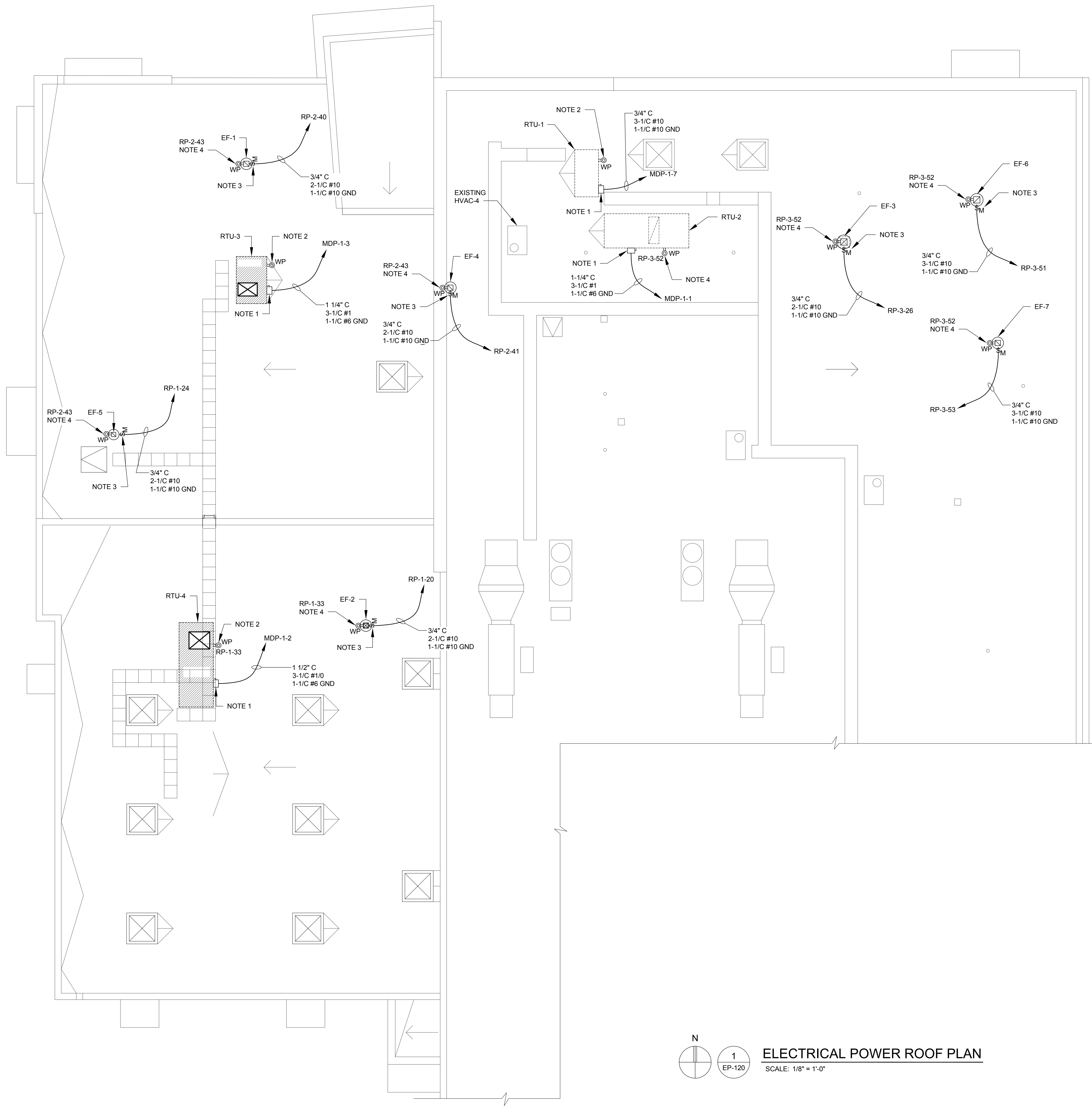
Drawn: JDM  
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 Approved: SRK

Sheet Title:  
**ENLARGED ELECTRICAL/MECHANICAL POWER PLAN**

Project Number: 22712.A

Sheet Number: **EP-213**

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- D. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL AND INTERLOCKING WIRING.
- E. REFER TO PARTIAL ONE-LINE DIAGRAM ON THIS DRAWING FOR ADDITIONAL INFORMATION.
- F. REFER TO PANEL SCHEDULE ON THIS DRAWING FOR ADDITIONAL INFORMATION.

**NOTES**

- 1. NON-FUSED DISCONNECT SWITCH SUPPLIED WITH UNIT.
- 2. 120V MAINTENANCE RECEPTACLE PROVIDED AND FED FROM UNIT.
- 3. MOTOR RATED TOGGLE DISCONNECT SWITCH SUPPLIED WITH UNIT.
- 4. FURNISH AND INSTALL A 20A, 1P, 115V CONVENIENCE OUTLET FOR UNIT PER NEC 210.63.

**SYMBOLS**

- \$M MOTOR RATED TOGGLE SWITCH
- DISCONNECT SWITCH
- Ⓜ WP 20A GFCI WEATHERPROOF RECEPTACLE



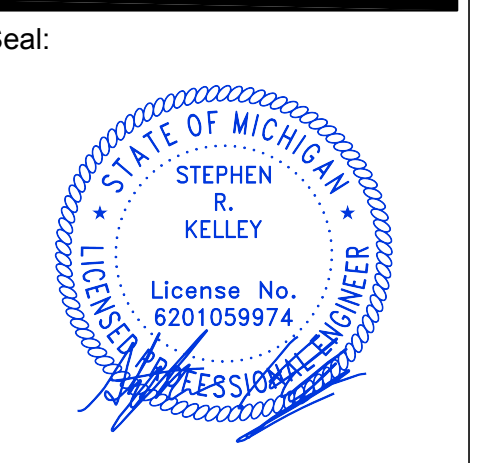
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12-21-2023	OWNER REVIEW
01-17-2024	PERMIT REVIEW

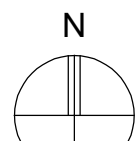
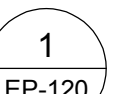
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Sheet Title:  
**ELECTRICAL  
 POWER  
 ROOF PLAN**

Project Number: **22712.A**

Sheet Number: **EP-220**

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**ELECTRICAL POWER ROOF PLAN**  
 SCALE: 1/8" = 1'-0"





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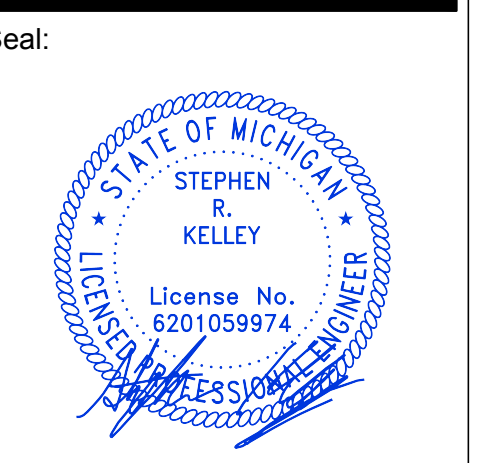
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Checked: LMR  
Approved: SRK

Sheet Title:  
**ELECTRICAL ONE-LINE DIAGRAM**

Project Number: 22712.A

Sheet Number: **EP-600**

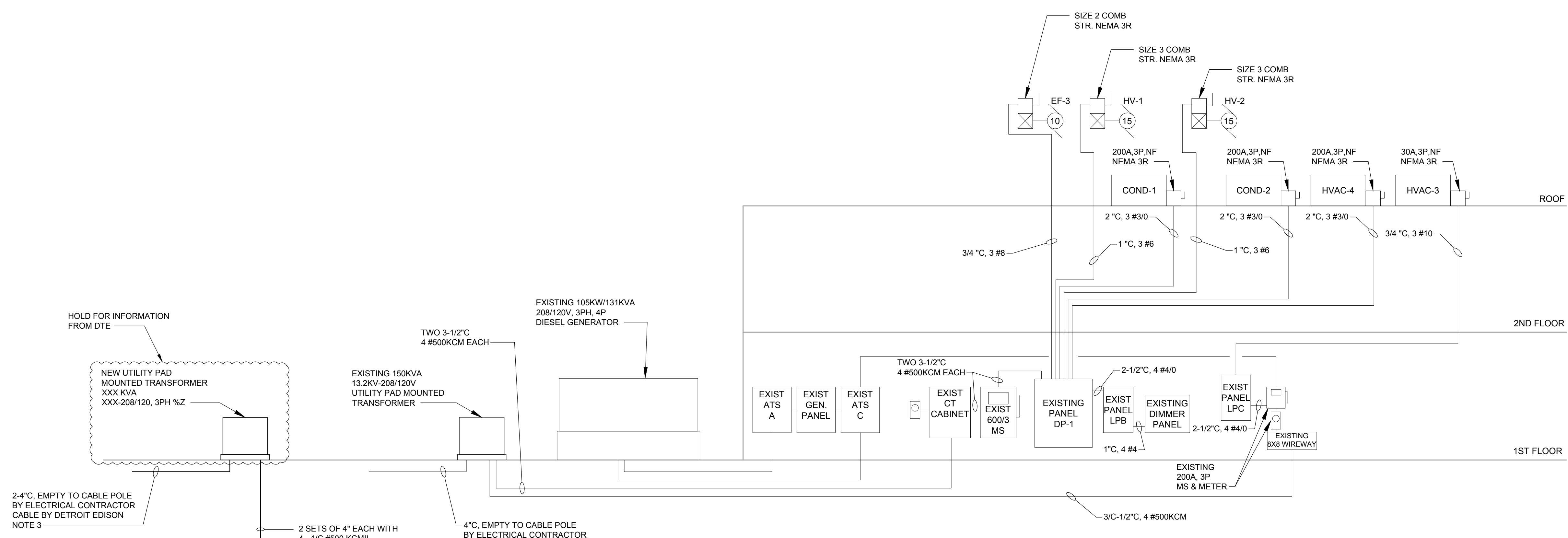
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**GENERAL NOTES:**

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. REFER TO ELECTRICAL GROUNDING DETAILS ON SHEET EP-601 FOR ADDITIONAL INFORMATION.
- C. REFER TO PANEL SCHEDULES ON DRAWING EP-602 FOR ADDITIONAL INFORMATION.

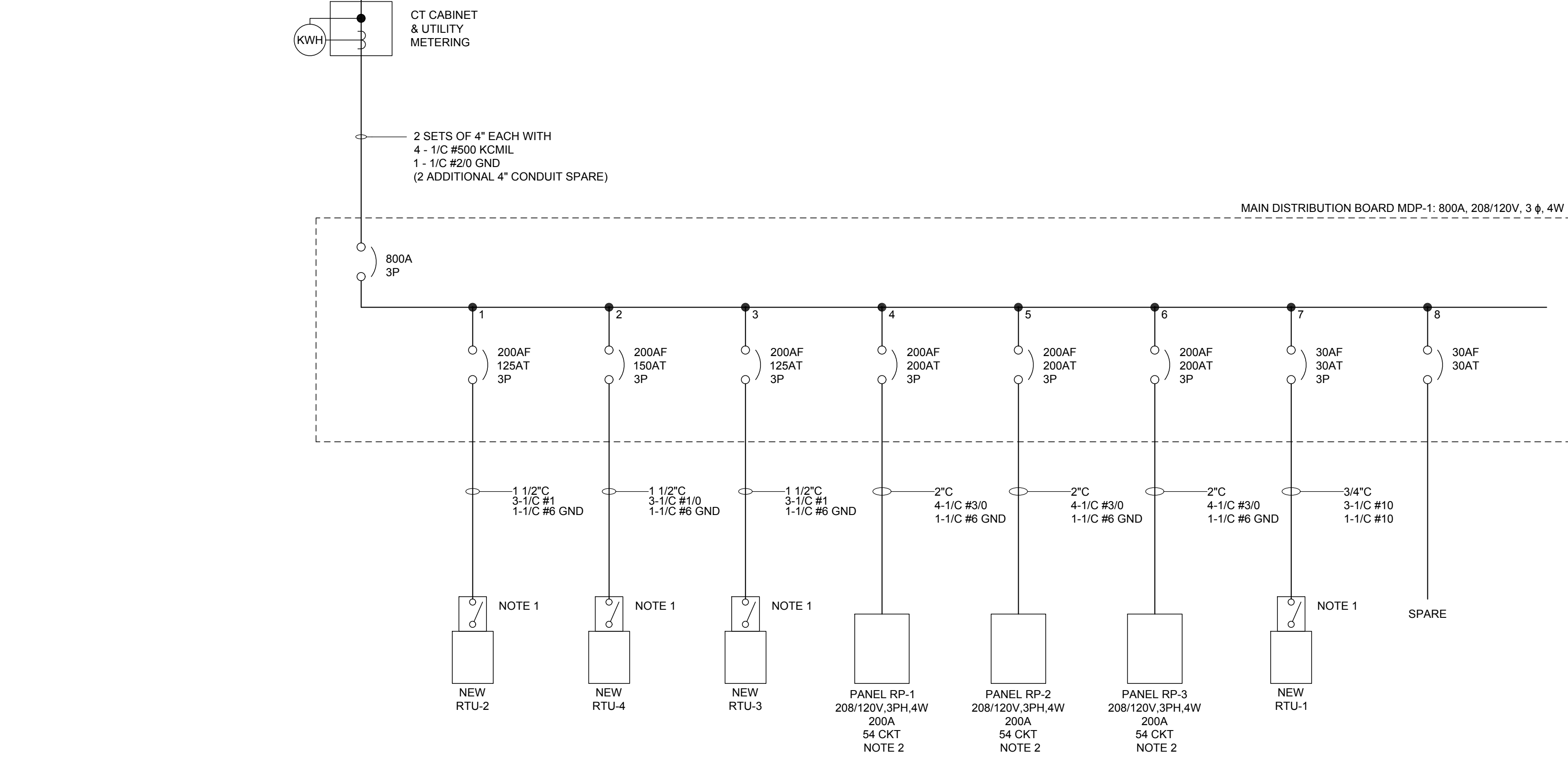
**NOTES:**

- 1. NEMA 3R DISCONNECT SWITCH SUPPLIED WITH UNIT.
- 2. FURNISH AND INSTALL A 200A MCB, 208/120V, 3PH, 4W PANELBOARD, SQUARE D INTERIOR NQ454L2C WITH BOX (NEMA 1) CAT #MH50 AND NCS05 FRONT, PK22GTACU EQUIPMENT GROUND BAR AND NQNZCU NEUTRAL BAR OR EQUIVALENT BY EATON.
- 3. CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL SERVICE UTILITY PROVIDER FOR EXACT LOCATION OF POINT OF SERVICE TIE IN.



**EXISTING ELECTRICAL RISER DIAGRAM**

SCALE: NTS



**INSTALLATION ELECTRICAL ONE-LINE DIAGRAM**

SCALE: NTS

**GENERAL NOTES:**

- A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. REFER TO ONE-LINE DIAGRAM ON DRAWING EP-600 FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING AND BONDING AS REQUIRED PER THE NATIONAL ELECTRIC CODE (N.E.C.) ARTICLE 250.



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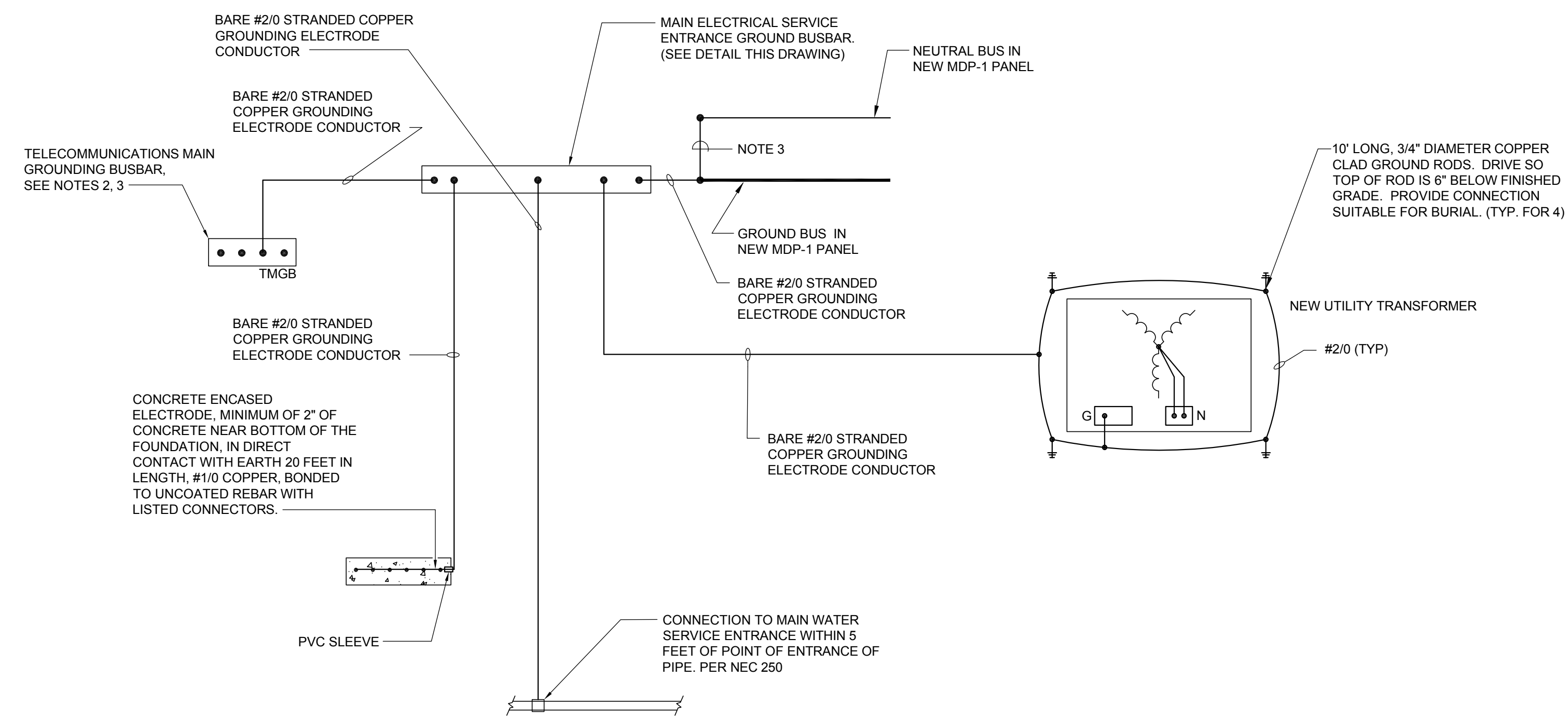
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**ELECTRICAL  
GROUNDING  
DETAILS**

Project Number: 22712.A

Sheet Number: **EP-601**

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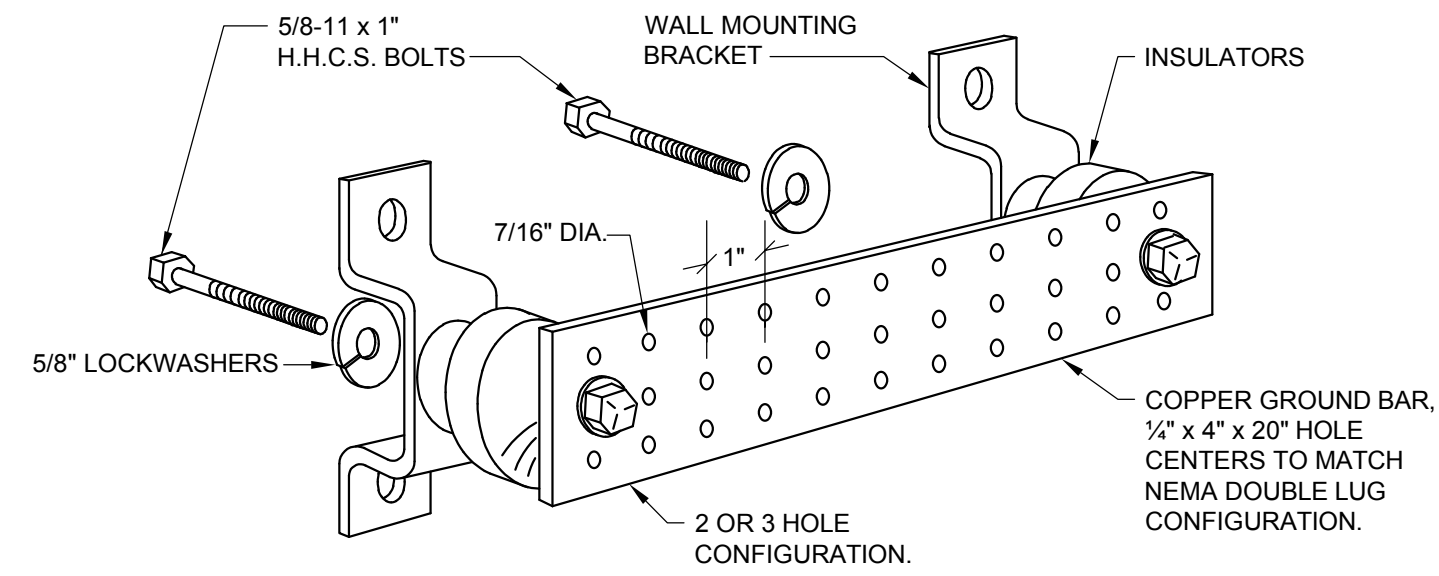


**ELECTRICAL SERVICE GROUNDING DETAIL WITH GROUNDING BUSBARS**

SCALE: N.T.S.

NOTES:

1. TEST BUILDING GROUNDING SYSTEM IN ACCORDANCE WITH NETA STANDARDS.
2. PROVIDE GROUNDING OF TELECOMMUNICATIONS EQUIPMENT TO TELECOMMUNICATION GROUND BUSBAR (TMGB) PER TELECOMMUNICATION VENDORS DIRECTION.
3. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB).
4. ESTABLISH THE NEUTRAL TO GROUND CONNECTION INSIDE MDP-1



**MAIN ELECTRICAL SERVICE ENTRANCE GROUND BUSBAR DETAIL**

SCALE: N.T.S.

