	THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS OCCUR BETWEEN DOCUMENTS, THE STRICTEST PROVISION SHALL GOVERN. THE CONTRACTOR SHALL LIMIT THE AMOUNT OF LOAD IMPOSED UPON THE STRUCTURAL FRAMING SYSTEM DURING CONSTRUCTION. LOADS, INCLUDING CONSTRUCTION LOADS, MUST NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED. THE CONTRACTOR SHALL INFORM THE ENGINEER OF POTENTIAL CONSTRUCTION LOADS DEEMED EXCESSIVE BY THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED SELF SUPPORTING, STABLE STRUCTURE UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE, CONSTRUCTION SEQUENCE AND PROVIDE ALL MEASURES OR CONSTRUCTION ROCESSARY TO ENSURE THE STABLITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR CRANES AND GIN POLES, ETC. ALL MATERIALS AND WORKMANSHIP SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE GOVERNING BUILDING CODE: MICHIGAN BUILDING CODE, CURRENT EDITION. ALL SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, ETC. SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER FOR CONFORMANCE WITH DESIGN INTENT ONLY. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. ENGINEERS APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FIT, QUANTITY AND CONSTRUCTION QUALITY CONTROL. STRUCTURAL DRAWINGS AND WORK. MECHANICAL FRAMING AND WORK. MECHANICAL FRAMING AND WORK. MECHANICAL PROVAL PRIOR TO A BABICATION. ENGINEERS APPROVAL OF SHOP DRAWINGS AND ELEVATIONS FOR EQUIPMENT INSTALLATIONS AGAINST APPROVAL OF SHOP DRAWINGS AND WORK. MECHANICAL FRAMING IOADS, OPENINGS AND SUPPORT STRUCTURE ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND MEETAND MANUFACTURERS CERTIFIED EQUIPMENT DRAWINGS AND COORDINATING ANY REQUIREMENTS W	2. 3. 4. 5.	CONCRETE SHALL BE APPLICABLE EDITION. PLACE ANCHOR RODS SPECIFIED IN THE LAT AND BRIDGES" IN LIEU TOLERANCES FOR CO REINFORCING STEEL STEEL IN CONFORMAT REINFORCING STEEL POST INSTALLED ANC PE1000+ EPOXY INJEC RECOMMENDATIONS IN BAR fc = 3 SIZE TOP BARS* AI #3 28" #4 37" #5 47" #6 56" #7 81" #8 93"
<ol> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol>	SYSTEM DURING CONSTRUCTION. LOADS, INCLUDING CONSTRUCTION LOADS, MUST NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED. THE CONTRACTOR SHALL INFORM THE ENGINEER OF POTENTIAL CONSTRUCTION LOADS DEEMED EXCESSIVE BY THE CONTRACTOR. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED SELF SUPPORTING, STABLE STRUCTURE UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE, CONSTRUCTION SEQUENCE AND PROVIDE ALL MEASURES OR TEMPORARY BRACING NECESSARY TO ENSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES, ETC. ALL MATERIALS AND WORKMANSHIP SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE GOVERNING BUILDING CODE: MICHIGAN BUILDING CODE, CURRENT EDITION. ALL SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, ETC. SHALL BE REVIEWED BY THE ARCHITECT: MOINER FOR CONFORMANCE WITH DESIGN INTENT ONLY. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PIROR TO FABRICATION. REGUIREMENTS OF FILE GOVERNING SUBLET FOR CONFORMANCE WITH DESIGN INTENT ONLY. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PIROR TO FABRICATION. REGUIREMENTS WITH SHOP DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND WORK. MECHANICAL DRAWINGS AND OWNE. MECHANICAL DRAWINGS AND WORK. MECHANICAL DRAWINGS AND WORK. MECHANICAL DRAWINGS AND WORK. MECHANICAL RESOLUTIONS FOR THE CONTRACTOR SHALL CONTRACTOR SHALL CONDINATIONG AND THE TRADES TO VERIFY EQUIPMENT SIZE AND LOCATIONS, ANY CHANGES	3. 4. 5. 6.	AIRE CONTENT >3% F PROVIDE READY-MIX ( CONCRETE SHALL BE APPLICABLE EDITION. PLACE ANCHOR RODS SPECIFIED IN THE LAT AND BRIDGES" IN LIEU TOLERANCES FOR CO REINFORCING STEEL STEEL IN CONFORMAL REINFORCING STEEL POST INSTALLED ANC PE1000+ EPOXY INJEC RECOMMENDATIONS BAR fc = 3 SIZE TOP BARS* A #3 28" #4 37" #5 47" #6 56" #7 81" #8 93"
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).	CONTACT THE ENGINEER IF ADDITIONAL DIMENSIONS ARE REQUIRED. CONTRACTOR SHALL NOT MIX GALVANIZED AND STAINLESS STEEL AT ANY TIME. ANY METAL PARTS		+ LAP SPLICE LEN GALVANIZED B/ OF 2db OR MOR EPOXY COATED
			LESS THAN 6db. EPOXY COATED OF 6db OR MOR
	IN CONTACT WITH OTHER METAL PARTS SHALL BE OF A SIMILAR METAL.	8.	REINFORCEMEN
	CONTRACTOR SHALL RECOGNIZE EFFECTS OF THERMAL MOVEMENTS AND MOISTURE CONTENT CHANGES OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD AND CONSIDER THESE EFFECTS DURING CONSTRUCTION AND/OR ERECTION SEQUENCES.	0.	A. CONCRETE C
2.	THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND FUNCTIONING SYSTEMS, INCLUDING BUT NOT LIMITED TO, PROVIDING (AT NO ADDITIONAL COST) ITEMS NOT SPECIFICALLY SHOWN IN THESE DRAWINGS WHICH ARE NORMALLY CONSIDERED NECESSARY.		B. CONCRETE C
<u> </u>			2. GREATE
> _	OILS AND EARTHWORK		C. SLAB ON GR
	SOIL INVESTIGATIONS HAVE BEEN PERFORMED FOR THIS PROJECT BY G2 CONSULTING, BORINGS DRILLED 07/12/24.		ASONRY I
•	OHM UTILIZED DATA CONTAINED IN BORING LOGS TO DETERMINE DESIGN LOAD BEARING CAPACITY AND OTHER DESIGN PARAMETERS.	1.	CONSTRUCT MASONR
	CONTRACTOR SHALL VERIFY SOIL BEARING CAPACITY PRIOR TO CONSTRUCTION.	2.	PROVIDE NORMAL WE WITH ASTM C90, F'm =
	SPECIAL DESIGN AND CONSTRUCTION PROVISIONS FOR THIS PROJECT'S FOUNDATIONS: A. NONE	3.	GROUT VOIDS AS IND GROUT BLOCK CORES SLUMP BETWEEN 8 AN
	INCLUDE IN THE WORK PROVIDING ALL EQUIPMENT, MATERIAL, AND QUALIFIED LABOR NECESSARY FOR EXCAVATION, SHORING, DEWATERING SYSTEMS, BACKFILL, AND COMPACTION OF SOILS, AS REQUIRED TO CONSTRUCT STRUCTURES TO THE LINE AND GRADE AS SHOWN ON THE PLANS.	4.	LAY UNIT MASONRY IN THE PLANS. TOOLS AL
	FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL TELEPHONE (800) 482-7171 NOT LATER THAN THREE BUSINESS DAYS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM.	5. 6.	
	EXCAVATE TO ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS WITHIN A TOLERANCE OF +/- 0.10 FEET. EXCAVATE BY HAND TO FINAL GRADE FOR FOOTINGS.	7	TEMPERATURE FOR 4
•	NOTIFY THE ENGINEER FOR AN INSPECTION WHEN THE EXCAVATION HAS REACHED SUB-GRADE ELEVATION. IF UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED AT SUB-GRADE ELEVATION, EXCAVATE AND REPLACE SUCH MATERIALS AS DIRECTED BY ENGINEER.	8.	ALL CORES BELOW G
	SATISFACTORY SOIL MATERIALS ARE DEFINED AS GRANULAR MATERIALS CLASSIFIED AS GW, GP, GM, SW, SP, SW-SM, SP-SM OR SM BY THE UNIFIED SOILS CLASSIFICATION SYSTEM, ASTM D2487. LIMIT AMOUNT OF FINE MATERIAL PASSING NO. 200 SIEVE TO LESS THAN 5% MAXIMUM.		<ul> <li>CORES CONTAINING E</li> <li>ALL VERTICAL REINFC REINFORCEMENT IN B OF THE SAME SIZE AN</li> </ul>
0.	UNSATISFACTORY SOIL MATERIALS ARE DEFINED AS SOILS CLASSIFIED AS GC, SW-SC, SP-SC, SC, ML, MH, CL, CH, OL, OH, AND PT BY THE UNIFIED SOIL CLASSIFICATION SYSTEM, OR ANY ORGANIC MATERIAL. "MARL" IS AN UNSATISFACTORY SOIL MATERIAL.	1'	1. COORDINATE WALL O MECHANICAL, ELECTR
1.	BACKFILL ALL STRUCTURAL WORK WITH SATISFACTORY SOIL MATERIALS AND ENGINEERED FILL AS SHOWN ON PLANS. DO NOT BACKFILL WITH FROZEN MATERIALS. DO NOT PLACE ROCKS LARGER THAN 3" DIAMETER IN BACKFILL.		<ol> <li>POST INSTALLED ANC + EPOXY INJECTION A RECOMMENDATIONS</li> </ol>
12.	COMPACT SOILS BELOW FOOTINGS TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR, ASTM D1557.	1:	3. PROVIDE HORIZONTA DURATRUSS OR EQU/
	COMPACT BACKFILL IN LAYERS TO MINIMUM 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED		BAR SIZE
	PROCTOR, OR MICHIGAN CONE TEST.		#3 #4 #5
	PROCTOR, OR MICHIGAN CONE TEST.		#4
	PROCTOR, OR MICHIGAN CONE TEST.		#4 #5 #6

RETE NOTES

- NORMAL WEIGHT CONCRETE, WITH 6% ± 1.5% ENTRAINED AIR FOR EXTERIOR IONS , MAXIMUM W/C RATIO < 0.45, AND MAXIMUM 4" SLUMP, UNLESS SUPER-ERS ARE USED. USE OF SUPER-PLASTICIZERS IS SUBJECT TO PRIOR APPROVAL BY THE R. DO NOT PROVIDE AIR CONTENT > 3% FOR TROWEL FINISHED SLABS. DO NOT PROVIDE TENT >3% FOR TROWEL FINISHED SLABS.
- READY-MIX CONCRETE CONFORMING TO ASTM C-94.
- E SHALL BE PLACED IN ACCORDANCE WITH ACI 117 301, 305R, 306.1, AND 308.1, LATEST
- CHOR RODS SET IN CONCRETE TO RECEIVE STRUCTURAL STEEL WITHIN TOLERANCES ) IN THE LATEST APPLICABLE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS GES" IN LIEU OF TOLERANCES SPECIFIED IN ACI "STANDARD SPECIFICATIONS FOR CES FOR CONCRETE CONSTRUCTION AND MATERIALS".
- CING STEEL CONFORMING TO ASTM A-615, GRADE 60 IS REQUIRED. PLACE REINFORCING CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE.
- ING STEEL SHALL NOT BE WELDED.
- FALLED ANCHORS OR REBAR SHALL BE ANCHORED INTO CONCRETE WITH POWERS POXY INJECTION ADHESIVE, OR AN APPROVED EQUAL. REFER TO MANUFACTURER'S

RECOMMENDATIONS FOR INSTALLATION INSTRUCTIONS. SEE DETAILS FOR MINIMUM EMBEDMENT.						
REINFORCEMENT LAP SPLICE LENGTH+						
BAR	f'c = 3,000 psi		f'c	= 4,000 psi	fc	= 5,000 psi
SIZE	TOP BARS*	ALL OTHER BARS	TOP BARS*	ALL OTHER BARS	TOP BARS*	ALL OTHER BARS
#3	28"	22"	24"	19"	22"	17"
#4	37"	29"	33"	25"	29"	23"
#5	47"	36"	40"	31"	36"	28"
#6	56"	43"	49"	38"	44"	34"
#7	81"	63"	70"	54"	63"	49"
#8	93"	72"	81"	62"	72"	56"
* T	OP BARS AF	RE HORIZONTAL BA	ARS WITH M	ORE THAN 12" OF I	RESH CON	CRETE

- OW BAR SPLICE LENGTHS SHOWN ARE CLASS B SPLICE LENGTHS FOR UNCOATED OR VANIZED BARS WITH CLEAR COVER OF db OR MORE AND WITH CLEAR SPACING 2db OR MORE. INCREASE LAP LENGTHS BY 50% FOR EPOXY COATED OR DUAL ZINC-XY COATED BARS WITH CLEAR COVER LESS THAN 3db OR WITH CLEAR SPACING S THAN 6db. INCREASE LAP LENGTHS BY 20% FOR EPOXY COATED OR DUAL ZINC-XY COATED BARS WITH CLEAR COVER OF 3db OR MORE AND WITH CLEAR SPACING Sdb OR MORE. SPLICE LENGTHS SHOWN ARE FOR NORMAL WEIGHT CONCRETE AND VFORCEMENT WITH A YIELD STRENGTH OF 60,000 PSI (60 KSI).
- CING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS LISTED BELOW UNLESS SE NOTED.
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH: 3"
  - CONCRETE CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER
  - NO. 5 OR SMALLER 1 1/2"
  - GREATER THAN NO. 5 2"
  - LAB ON GRADE: 2" FROM T/SLAB

## NRY NOTES

- CT MASONRY IN ACCORDANCE WITH ACI 530.1/ASCE 6-CURRENT EDITION.
- NORMAL WEIGHT CONCRETE UNIT MASONRY UNITS MANUFACTURED IN ACCORDANCE M C90, F'm = 1,900 PSI.
- IDS AS INDICATED ON THE DRAWINGS, WITH GROUT CONFORMING TO ASTM C476. OCK CORES UNDER BEAM BEARINGS AND AT LEAST 8" EACH SIDE OF BEARING. PROVIDE TWEEN 8 AND 11 INCHES.
- MASONRY IN A RUNNING BOND PATTERN UNLESS SPECIFICALLY SHOWN OTHERWISE ON S. TOOLS ALL JOINTS, ALL SURFACES.
- SHALL BE TYPE S COMPLYING WITH ASTM C270 IS REQUIRED.
- MASONRY BY COVERING TOP OF WALLS WITH WATERPROOF SHEETING AT THE END OF . DO NOT LAY WET OR FROZEN BRICK, STONE, OR BLOCK. PROVIDE TEMPORARY HEAT BIENT TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT. MAINTAIN MINIMUM 50 DEGREE TURE FOR 48 HOURS AFTER PLACING MASONRY.
- L CORES CONTAINING REBAR AND VOIDS WHERE INDICATED.
- S BELOW GRADE SHALL BE GROUTED SOLID UP TO FINISHED FLOOR ELEVATION.
- ONTAINING EXPANSION OR ADHESIVE ANCHORS SHALL BE GROUTED SOLID.
- CAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH BOND BEAMS. ALL HORIZONTAL EMENT IN BOND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE BENT BARS AME SIZE AND NUMBER WITH A LAP OF 48 BAR DIAMETERS (12" MINIMUM).
- ATE WALL OPENINGS AND OTHER WALL CONFIGURATIONS WITH ARCHITECTURAL, CAL, ELECTRICAL, PLUMBING, CIVIL, AND OTHER DISCIPLINES.
- FALLED ANCHORS OR REBAR SHALL BE ANCHORED INTO MASONRY WITH POWERS PE1000

   NJECTION ADHESIVE, OR AN APPROVED EQUAL. REFER TO MANUFACTURER'S ENDATIONS FOR INSTALLED INSTRUCTIONS. SEE DETAILS FOR MINIMUM EMBEDMENT.
- HORIZONTAL JOINT REINFORCEMENT IN ALTERNATE COURSES (16" OC) USING 9 GAUGE SS OR EQUAL.

BAR SIZE	MINIMUM LAP SPLICE	MINIMUM LAP SPLICE	COMMENTS
#3	f'm = 1,500 psi 18"	f'm = 1,900 psi 18"	
#4	26"	24"	
#5	40"	35"	MIN 8" CMU
#6	74"	66"	MIN 8" CMU
#7	101"	89"	MIN 12" CMU
#8	151"	135"	MIN 12" CMU

\* LAP SPLICE LENGTHS SHOWN ARE FOR UNCOATED BARS WITH 2" MINIMUM CLEAR COVER AND 2" MINIMUM CLEAR SPACING. INCREASE LAP LENGTH BY 50% IF USING EPOXY COATED BARS. LAP LENGTHS SHOWN ARE FOR REINFORCEMENT WITH A YIELD STRENGTH OF 60,000 PSI (60 KSI).

# MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH OF 4,000 PSI (fc = 4,000 PSI).

## WOOD FRAMING NOTES

### ALL FRAMING SHALL BE SPRUCE-PINE-FIR (S.P.F.) NO. 2 OR BETTER; Fb=875 PSI; E=1.4X10^6 PSI; Fv= 135 PSI; Fcperp =425 PSI. ALL WOOD LABELED "PT" SHALL BE S.P.F. NO.2 OR BETTER AND BE PRESSURE TREATED FOR GROUND CONTACT. PRESSURE-TREATED (PT) WOOD SHALL BE PREPARED IN ACCORDANCE WITH ASTM D1760 USING WATERBORNE PRESERVATIVES AND OBTAIN 0.25 PCF PENETRATION FOR ABOVE GRADE AND 0.40 PENETRATION FOR GROUND CONTACT.

- FLOOR TRUSS JOISTS SHALL BE TRUSS-JOIST MCMILLIAN TJI SERIES OR EQUAL. INSTALL PER MANUFACTURERS SPECIFICATIONS AND STANDARD DETAILS.
- HANGERS/CONNECTORS SHALL BE 18 GA GALVANIZED, SIMPSON STRONG-TIE OR EQUAL. USE HANGERS FOR THE USE AS RECOMMENDED BY THE MANUFACTURER.
- SHEATHING/FLOORING SHALL BE APA GRADED AS FOLLOWS:
- A. ROOF SHEATHING: 5/8' MIN, 40/20 EXPOSURE 1
- B. WALL SHEATHING: 1/2" MIN, 32/16 EXPOSURE 1
- C. FLOOR SHEATHING: 3/4" MIN, STURD-I-FLOOR EXPOSURE 1, T&G, GLUED AND NAILED
- MINIMUM REQUIREMENTS FOR ENGINEERED WOOD PRODUCTS ARE INDICATED AS FOLLOWS. PROVIDE BRACING AND DETAIL INSTALLATION PER MANUFACTURER'S REQUIREMENTS FOR ALL PRODUCTS.
- A. 2.0E LAMINATED VENEER LUMBER; Fb=2,600 PSI; E=2.0X10^6 PSI; Fv=285 PSI; Fcperp =750 PSI, AS MANUFACTURED BY WEYERHAEUSER, OR APPROVED EQUIVALENT.
- B. 2.0E PARALLAM PARALLEL STRAND LUMBER; Fb=2,900 PSI; E=2.0X10^6 PSI; Fv=290 PSI;
- Fc= 650 PSI, AS MANUFACTURED BY TRUS JOIST MACMILLAN, OR APPROVED EQUIVALENT.
- C. 24F-V4 WESTERN SPECIES GLUE LAMINATED TIMBER MANUFACTURED IN ACCORDANCE WITH ANSI/AITC A190.1-1992, APPEARANCE GRADE.
- D. TJI/PRO: WOOD "I" FLOOR JOISTS AS MANUFACTURED BY WEYERHAEUSER, OR APPROVED EQUIVALENT. L/500 MAXIMUM LIVE LOAD PERFORMANCE FOUND GOOD TO EXCELLENT BY AT LEAST 95% OF POPULATION, PROVIDE SHOP DRAWINGS AND REVIEW OF JOIST SELECTION, CERTIFYING PERFORMANCE VALUE. PROVIDE BRIDGING, BLOCKING, AND WEB STIFFENERS AS REQUIRED BY MANUFACTURER/SUPPLIER.
- INSTALL SOLID 2X S4S BLOCKING AT ALL RAFTER BEARINGS. ADJUST BLOCK DEPTH AS REQUIRED FOR AIR SPACE.
- DESIGN FLOOR TRUSSES AND ROOF TRUSSES TO CONFORM WITH LOCAL CODES AND THE DESIGN LOADS STATED HEREIN. SUBMIT SHOP DRAWINGS FOR APPROVAL, PRIOR TO FABRICATION.
- "WD COL" DENOTES SOLID OR BUILT-UP WOOD COLUMNS, GLUE AND NAIL STUDS TOGETHER TO FORM BUILT-UP WOOD COLUMNS. USE NUMBER OF STUDS FOR EACH COLUMN SUCH THAT THE COLUMN WIDTH EQUALS OR EXCEEDS THE WIDTH OF THE SUPPORTED MEMBER, BUT IN NO CASE LESS THAN THREE STUDS. SOLID BLOCK ALL FLOORS DIRECTLY UNDER WOOD COL, THEN CONTINUE WOOD COL TO SUPPORT (BEAM, FOOTING OR FOUNDATION WALL).
- WHERE HEADERS ARE NOT SPECIFIED OVER DOORS, WINDOWS OR OTHER OPENINGS WITHIN BEARING OR EXTERIOR WALLS PROVIDE A MINIMUM (3) 2X12 HEADER. U.N.O. ALL WINDOW PENETRATIONS SHALL HAVE MINIMUM (2) SILL PLATES.
- STEEL PLATES OR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER AND PROTECTED WITHIN THE BUILDING ENVELOPE (ADEQUATELY SHIELDED FROM DIRECT CONTACT WITH MOISTURE) SHALL BE STAINLESS STEEL OR GALVANIZED TO G60 PER ASTM A924 REQUIREMENTS. STEEL PLATES OR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER LOCATED OUTSIDE OF THE BUILDING ENVELOPE OR EXPOSED TO MOISTURE SHALL BE STAINLESS STEEL OR GALVANIZED TO G90 PER ASTM 924.
- 12. FASTEN MEMBERS IN ACCORDANCE WITH MICHIGAN BUILDING CODE TABLE 2304.10.1, UNLESS OTHERWISE NOTED.
- 13. WHERE NOTED, NAIL SIZES ARE BASED ON THE FOLLOWING MINIMUM SIZES

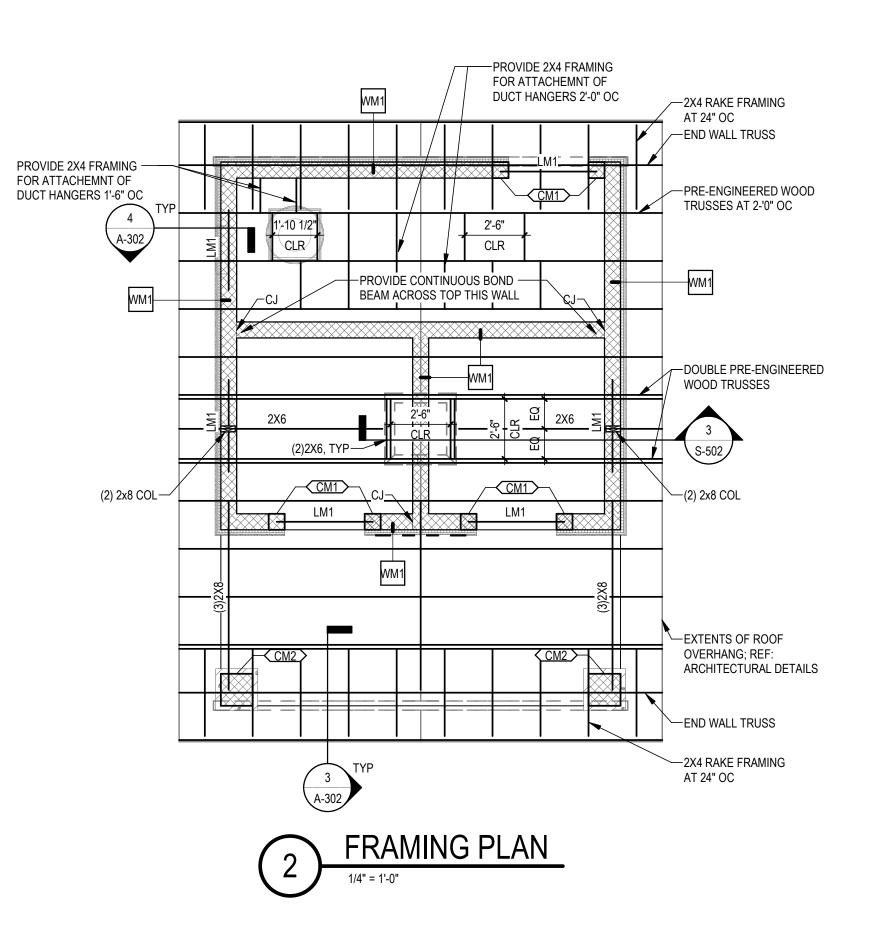
SIZE	DESIGNATION	MIN SIZE
6d	BOX	2" x 0.099" DIA
6d	COMMON	2" x 0.113" DIA
8d	BOX	2 1/2" x 0.113" DIA
8d	COMMON	2 1/2" x 0.131" DIA
10d	BOX	3" x 0.128" DIA
10d	COMMON	3" x 0.148" DIA
12d	BOX	3 1/4" x 0.128" DIA
12d	COMMON	3 1/4" x 0.148" DIA
16d	BOX	3 1/2" x 0.135" DIA
16d	COMMON	3 1/2" x 0.162" DIA

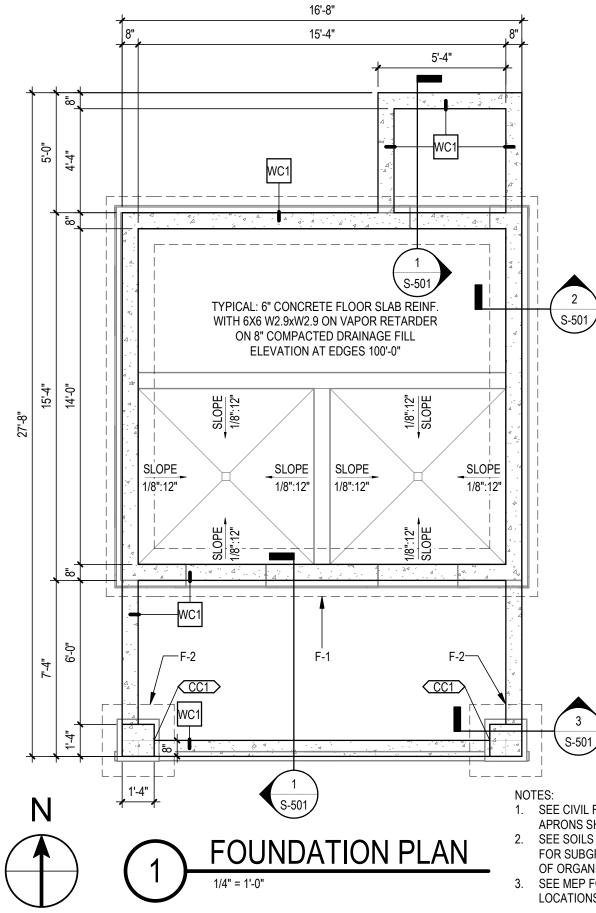
### PRE-ENGINEERED WOOD TRUSS NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL METAL-PLATE CONNECTED WOOD TRUSSES DESIGNED TO SUPPORT THE LOADS INDICATED ON THE PLANS. TRUSSES SHALL HAVE A MAXIMUM DEFLECTION OF L/360 AND SHALL BE SPACED AT 2'-0" OC MAX.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF MICHIGAN. SHOP DRAWINGS FOR EACH TRUSS SHALL SHOW SIZE, SPECIES AND STRESS GRADES OF ALL LUMBER, METAL PLATE TYPE, ORIENTATION AND SIZES, BEARING AND UPLIFT REQUIREMENTS. ALL LOAD CASES INVESTIGATED AND MAXIMUM STRESSES IN EACH MEMBER SHALL ALSO BE INCLUDED.
- TRUSS MANUFACTURER SHALL DESIGN TRUSSES FOR WIND LOADS PER SEI/ASCE 7-02. WOOD TRUSS FABRICATION SHALL COMPLY WITH TPI 1-95, "NATIONAL DESIGN".
- CONTRACTOR SHALL SUPPLY, INSTALL, AND REMOVE ALL NECESSARY TEMPORARY BRACING REQUIRED FOR INSTALLATION OF WOOD TRUSSES AND MEMBERS IN ACCORDANCE WITH DSB-89, "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES".
- METAL PLATE CONNECTORS SHALL COMPLY WITH TPI 1, HOT-DIP GALVANIZED STEEL SHEET: ASTM A653/A653 M, G60 COATING DESIGNATION; DESIGNATION SS, GRADE 33, AND NOT LESS THAN 0.036 IN. THICK.
- PROVIDE DIMENSIONAL LUMBER OF ANY SPECIES FOR TRUSS CHORD AND WEB MEMBERS, CAPABLE OF SUPPORTING THE REQUIRED LOADS WITHOUT EXCEEDING ALLOWABLE DESIGN VALUES ACCORDING TO AFPA'S "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" AND ITS "SUPPLEMENT".
- CONTRACTOR SHALL INSTALL SIMPSON STRONG-TIE MODEL H3 TIE-DOWNS UNLESS NOTED OTHERWISE, AT ALL BEARING LOCATIONS OF ALL TRUSSES. TRUSSES SHALL BE HANDLED AND INSTALLED PER WTCA BCS1 1-03.
- INSTALL AND FASTEN PERMANENT BRACING DURING TRUSS ERECTION AND BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF PERMANENT BRACING WHERE TERMINATING AT WALLS OR BEAMS.8. PER TPI HIB-91 "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES".
- IN ADDITION TO THE ANY LATERAL BRACING WHICH IS REQUIRED BY THE TRUSS MANUFACTURER/SUPPLIER, THE CONTRACTOR SHALL PROVIDE AND INSTALL PERMANENT DIAGONAL STABILITY BRACING FOR ALL COMPRESSION WEBS AND PRIMARY TOP CHORDS OF PIGGY BACK TRUSSES OR OTHER MEMBERS WHICH REQUIRE BRACING TO REDUCE THEIR BUCKING LENGTH. THIS BRACING SHALL CONSIST OF 2X4'S ATTACHED TO EACH WEB MEMBER WITH NOT LESS THEN 2 - 16d NAILS. BRACING SHALL EXTEND ON A 45 DEGREE DIAGONAL FROM THE TOP TO BOTTOM OF THE WEBS. FOR EACH BRACED MEMBER, DIAGONALS SHALL BE INSTALLED IN CHEVRON PAIRS WITH ONE PAIR OF DIAGONALS AT EACH END OF THE SERIES OF TRUSSES AND NOT MORE THAN 20 FEET BETWEEN PAIRS.

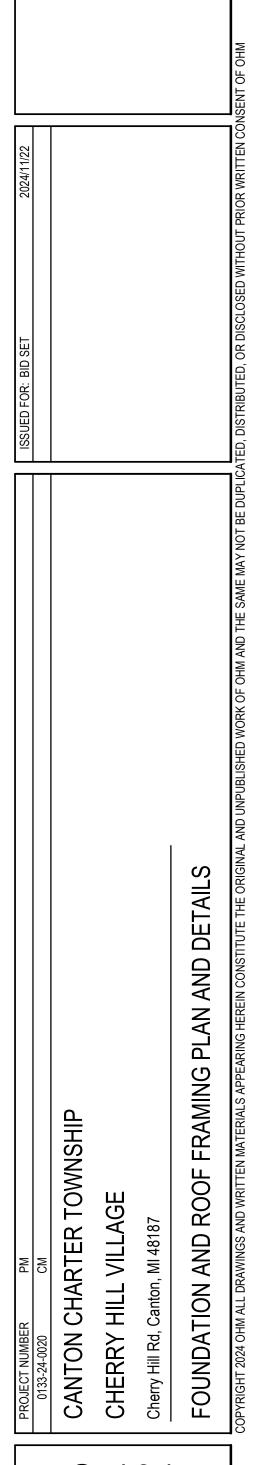
BUILDING LOADS BUILDING CLASS	SIFICATION II	, S	STRUC. ABBR.		TRUC. ABBR.	$\top$			
LIVE LOADS		A &	AND	M MAX	MAXIMUM				
<ol> <li>UNIFORM FLOOR LIVE LOAD</li> <li>ROOF LOAD - SEE SNOW LOAD</li> </ol>	NA 20 psf	@ ALUM	AT ALUMINUM	MBC MECH	MICHIGAN BUILDING CODE MECHANICAL				
3. INTERIOR WALL LATERAL LIVE LOAD	5 psf	ANSI	AMERICAN NATIONAL STANDARDS	MFR	MANUFACTURER			-IM	
DEAD LOADS		APPROX	INSTITUTE APPROXIMATE	MIN MISC	MINIMUM MISCELLANEOUS				
<ol> <li>MATERIAL DEAD LOAD</li> <li>MECHANICAL DEAD LOAD</li> </ol>	15 psf 5 psf	ARCH ASTM	ARCHITECTURAL (ARCHITECT) AMERICAN SOCIETY FOR TESTING	MO	MASONRY OPENING	AF	RCHITECTS	S ENGINEERS PL	ANNERS
SNOW LOADS		7.61	AND MATERIALS	N			OHM	I-ADVISORS.COM	N
BALANCED SNOW	16 psf	в		N NA	NORTH NOT APPLICABLE				
<ol> <li>GROUND SNOW LOAD, P<sub>G</sub></li> <li>FLAT-ROOF SNOW LOAD, P<sub>F</sub></li> </ol>	20 psf 16 psf	BF BLDG	BOTH FACES BUILDING	NIC	NOT IN CONTRACT				
<ol> <li>SNOW EXPOSURE FACTOR, C<sub>E</sub></li> <li>RISK CATEGORY</li> </ol>	1.0 II	BLK	BLOCK	No. NOM	NUMBER				
5. SNOW LOAD IMPORTANCE FACTOR, $I_S$ 6. ROOF THERMAL FACTOR, $C_T$	1.0 1.1	BLKG BOF	BLOCKING BOTTOM OF FOOTING	NTS	NOT TO SCALE	_			
<ol> <li>SLOPED ROOF FACTOR, C<sub>SU</sub></li> <li>SLOPED ROOF SNOW LOAD, Ps</li> </ol>	1.0 16 PSF	BOT	ВОТТОМ	0					
UNBALANCED SNOW	10 F 31	BRG BRKT	BEARING BRACKET	OBC OC	OHIO BUILDING CODE ON CENTER				
1. WINDWARD	5 psf	BTWN	BETWEEN	OH	OVERHEAD				
2. LEEWARD (4'-6")	16 psf	с		Р					
WIND LOADSVASD=VULT(0.6)^{1/2}QASD=QULT(0.6)LOAD OR VARIABLE		CIP CJ	CAST-IN-PLACE CONTROL JOINT	PCF	POUNDS PER CUBIC FOOT	_			
1. ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	115 mph	CL	CENTER LINE	PL PLMB	PLATE PLUMBING				
<ol> <li>RISK CATEGORY</li> <li>WIND EXPOSURE CATEGORY</li> </ol>	II C	CLR CMU	CLEAR CONCRETE MASONRY UNIT	PLYWD PREFAB	PLYWOOD PREFABRICATED				
<ol> <li>WIND EXPOSIBLE CATEGORY</li> <li>INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDING)</li> <li>MAIN WIND FORCE RESISTING SYSTEM (MAX ROOF UPLIFT AT OVERHANG)</li> </ol>	± 0.18 24 psf	COL	COLUMN	PSF	POUNDS PER SQUARE FOOT				
6. MAIN WIND FORCE RESISTING SYSTEM (MAX WALL)	24 psi 22 psf +27, -49 psf	CONC	CONCRETE	PSI PT	POUNDS PER SQUARE INCH PRESSURE TREATED				
8. COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 2)	+27, -54 psf	D DEG	DEGREE	PVC	POLYVINYL CHLORIDE				
<ol> <li>COMPONENTS &amp; CLADDING DESIGN PRESSURE (ZONE 3)</li> <li>COMPONENTS &amp; CLADDING DESIGN PRESSURE (ZONE 4)</li> </ol>	+27, -83 psf +29, -39 psf	DEMO	DEMOLITION	Q					
11. COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 5)	+29, -39 psf	DET DIA	DETAIL DIAMETER	QTY	QUANTITY				
EARTHQUAKE DESIGN DATA		DIST	DISTANCE	R					
1. RISK CATEGORY		DL	DEAD LOAD	REINF REQD	REINFORCE REQUIRED				
<ol> <li>SEISMIC IMPORTANCE FACTOR, I<sub>E</sub></li> <li>MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S<sub>S</sub></li> </ol>	1.0 0.103 g	E		REV	REVISE / REVISION				
<ol> <li>MATTED OF EDITATION PARAMETER, 05</li> <li>MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S1</li> <li>SITE CLASS</li> </ol>	0.047 g D	EA EF	EACH EACH FACE	RO RS	Rough opening Rough Sawn				
<ul> <li>6. SEISMIC DESIGN CATEGORY</li> <li>7. BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED MASONRY</li> </ul>	B	EJ EL	EXPANSION JOINT ELEVATION	RT	RIGHT				
<ol> <li>BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED MASONRY</li> <li>8. SEISMIC RESPONSE COEFFICIENT(S), C<sub>S</sub> (SECTION 12.8.1.1)</li> <li>9. RESPONSE MODIFICATION COEFFICIENT(S), R (SECTION 12.2-1)</li> </ol>	0.053	ENG	ENGINEER	S					
10. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE, SECTION	12.8	ENTR EQ	ENTRANCE EQUAL	SIM SOG	SIMILAR SLAB ON GRADE	1/22			
MISCELLANEOUS DESIGN DATA	2000	EQUIP	EQUIPMENT EACH SIDE	SQ FT	SQUARE FOOT / FEET	2024/11/22			
ASSUMED SOIL BEARING STRENGTH CONTRACTOR SHALL VERIFY SOIL BEARING CAPACITY PRIOR TO CONSTRUCTION	2000 psf	EW	EACH WAY	SQ IN STL	SQUARE INCH / INCHES STEEL				
NOTES		EXP EXST	EXPANSION (EXPOSED) EXISTING	-					
1. APPLICABLE CODE IS 2015 MICHIGAN BUILDING CODE.				T&B	TOP & BOTTOM				
<ol> <li>APPLICABLE TECHNICAL CODE IS ASCE/ SEI 7-10.</li> <li>WIND LOAD BASED ON ASCE 7-10</li> </ol>		F FD	FLOOR DRAIN	T&G TEMP	TONGUE & GROOVE TEMPERATURE / TEMPERED				
A. MWFS: CHAPTER 28, PART 1 B. C&C: CHAPTER 30, PART 1		FF	FINISHED FLOOR FINISH / FINISHED	TOB	TOP OF BEAM				
4. LOADS ARE BASED ON SECTION 16 OF MBC 2015 UNLESS OTHERWISE NOTED.		FIN FT	FOOT / FEET	TOC TOM	TOP OF CONCRETE TOP OF MASONRY	SET			
		FTG	FOOTING	TOS	TOP OF STEEL	BID			
LOOSE LINTEL & FRAMING NOTES		G		TOW TYP	TOP OF WALL TYPICAL	ISSUED FOR:			
FOR ALL FRAMING & OPENINGS IN WALLS, INCLUDING THOSE FOR DOORWAYS, DU	CTS & EQUIPMENT,	GA GALV	GAGE GALVANIZED	U		SUED			
PROVIDE (1) ANGLE FOR EACH 4" OF WALL THICKNESS AS FOLLOWS:		GB	GYPSUM BOARD	UNO	UNLESS NOTED OTHERWISE	<u>6</u>			
1. SPANS TO 4'-0": L3 1/2x3 1/2x5/16		GYP	GYPSUM	V					
2. SPANS 4'-1" TO 7'-0": L5x3 1/2x5/16		H HDR	HEADER	VERT VIF	VERTICAL VERIFY IN FIELD				
3. SPANS LARGER THAN 7'-0": REFER TO LINTEL SCHEDULE		HORIZ	HORIZONTAL						
LINTEL BEARING (MIN)		HR HT	Hour Height	W W/	WITH				
1. SPANS TO 4'-0": 6" EACH END				W/O	WITHOUT				
2. SPANS 4'-1" TO 7'-0": 8" EACH END		IN	INCH / INCHES	WD WF	WOOD WIDE FLANGE	- 11			
3. SPANS LARGER THAN 7'-0": PROVIDE BEAMS WITH PLATES AS SHOWN ON PLAN	٧S	INSUL	INSULATION	WT WWF	WEIGHT WELDED WIRE FABRIC				
NOTES:		J		****					
1. ALL OPENINGS ARE NOT SHOWN IN THE FRAMING PLANS. REFER TO ARCHITEC	CTURAL, MECHANICAL	JST JT	JOIST JOINT	Y Y					
& ELECTRICAL DRAWINGS AND DETAILS FOR OPENINGS AND RECESSES.		1		YD	YARD				
2. WHERE ARE NOT DETAILED OR NOTED, PROVIDE LINTELS FOR ALL OPENINGS LINTEL SCHEDULE.	PER ABOVE LOOSE		LONG LEG HORIZONTAL						
3. EQUIPMENT SUSPENDED FROM STEEL JOISTS: USE ANGLE LINTEL, SPAN (3) JO	DIST MIN, TOP CHORD	LLV LONG	LONG LEG VERTICAL LONGITUDINAL						
WELD OR CLAMP TO JOIST.	· · · · · · · · · · · · · · · · · · ·	LP	LOW POINT LEFT						
4. FOR OPENINGS ON FLOOR AND ROOF DECKS, PROVIDE DAL1 ANGLES EACH SI JOISTS AND DECK WITH CLIPS AND SCREWS.	DE, FASTEN TO							I	
<ol> <li>ALL EXTERIOR, EXPOSED STL LINTELS SHALL BE HOT DIPPED GALVANIZED.</li> </ol>									
. ALL EALENION, EAL OULD OTE LINTLED SHALL DE HUT DIFFED GALVANIZED.									
							NS NS		
							OWNSHIP	Ш	
STRUCTURAL	STIVIBUL	S LEGE					<b>F</b>	AGE 87	SE.
VIEW REFERENCES		NOTES &	ANNOTATIONS	INDICA	TOR LINES & POINTS			VILLA( , MI 48187	NOT
SIM		XX	SHEET KEYNOTE INDICATOR	Q	Ç CENTER LINE	CM PM	RT I	- <u> </u>	
					ELEVATION MARK		CHARTER	HILL VILLA Canton, MI 48187	<b>ZAL</b>
DETAIL I	INDICATOR	00 00 00.A				D SER			LF
		1	REVISION INDICATOR	MATCHI SEE 1 / A		NUME 4-002(	Ó	R, R	IJ
	N DETAIL OR	<b>N</b> 1	NORTH INDICATOR	$\frown$	EXISTING GRID LINE	PROJECT NUMBER 0133-24-0020	CANTON	CHERRY Cherry Hill Rd,	STRUCTURAL
X-XXX		N	PLAN NORTH	(e1)		PRO	C	Che C	SI
	OR ELEVATION		TRUE NORTH	(1)			<u> </u>		
1 INDICAT				$\bigcirc$	NEW BUILDING LINE		C	001	
		$\checkmark$		BL1—			J	5-001	







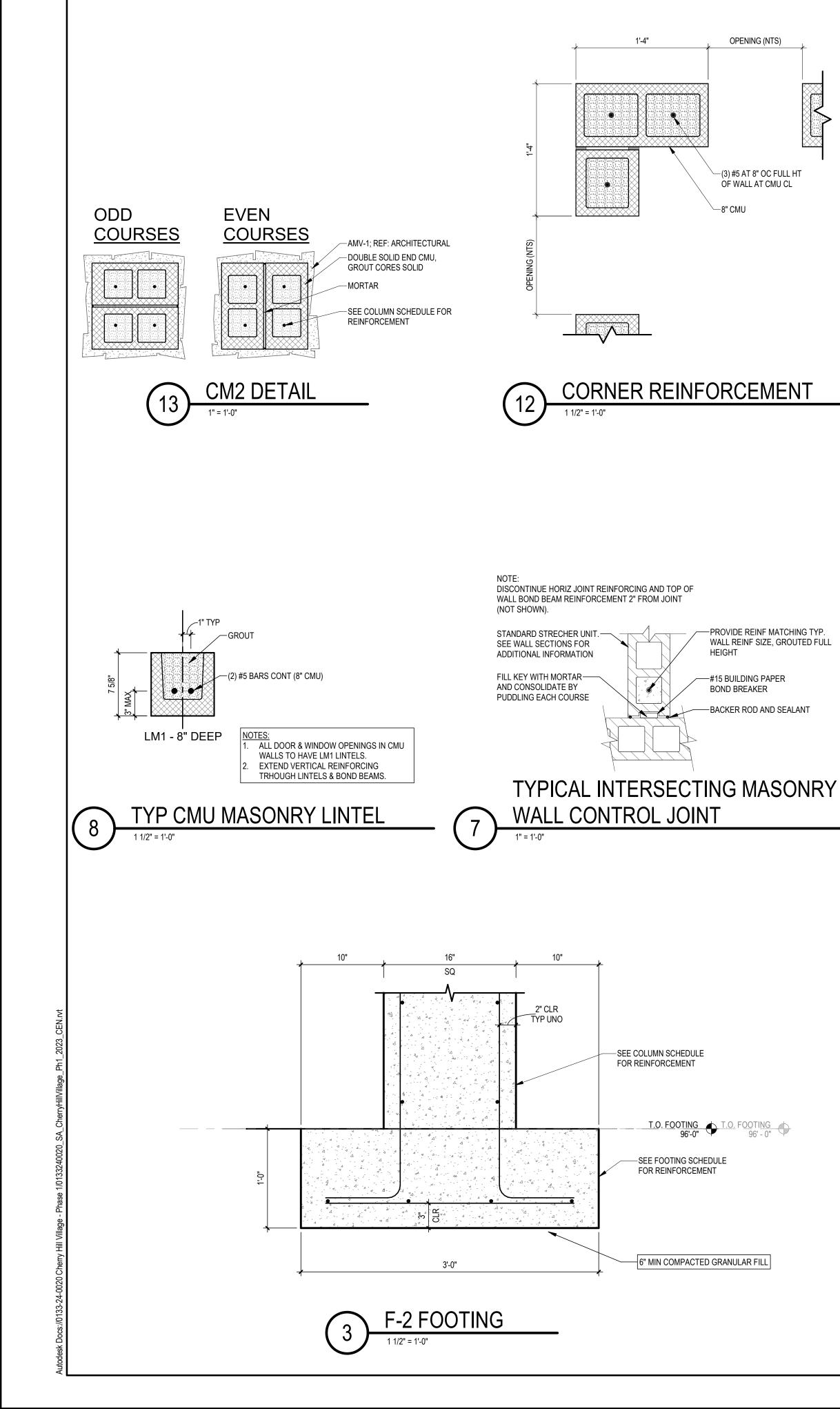
			WA	ALL SCHED	ULE			
MARK	WIDT	Ή	REIN	NFORCING		NOTES		
WC1	8"	#5 A	T 12" OC I	EW				
WM1	8"			NITH W1.7 WIRE AT 16" OC				
	M	ASO	NRY	COLUMN	SCHE	DULE		
	COL	UMN						ARCHITECTS ENGINEERS PLANNERS
MARK	SI	ZE	R	EINFORCING		NOTES		OHM-ADVISORS.COM
CM1	Masonry_	8 x 8	(1) #5 BA	R CENTERED IN CORE				
CM2	Masonry_	16 x 16	(4) #5 BA	RS CENTERED IN CORES	;			
	CC	NC	RET	E COLUMN	I SCH	EDULE		
MARK								
CC1	Conc_16 :	x 16	(4) #8 VE AT 12" O	RTICAL BARS WITH #3 TII C	ES			
		F	-00	TING SCHE	EDULE	E		
SCHEDULE	E NOTES:							
1. PROVIDE (#4 = 12", #		HOOKS	ON ALL	VERTICAL BARS, TUI	RNED OUT	AWAY FROM CENTERI	INE.	
2. PROVIDE	E "L" 30"x	30" FOF	R #4 HOF	IZONTAL LAP BARS	AT ALL COP	RNERS.		
3. PROVIDE FOOTINGS		S AT 36'	" OC PE	RPENDICULAR TO BO	OTTOM FOO	DTING BARS FOR WAL	L	
4. REFER T	O PLANS	S FOR S	TRIP FO	OTING LENGTHS.				
	FOO	TING	SIZE					
MARK	L	W	D	REINFORC	ING	NOTES		
F-1	<varies></varies>	24"	12"	(3) #5 BARS				
F-2	36"	36"	12"	(4) #5 BARS EW				



NOTES:
 SEE CIVIL FOR SIDEWALK OUTSIDE OF APRONS SHOWN HERE.
 SEE SOILS AND EARTHWORK NOTES ON S-001 FOR SUBGRADE PREPARATION AND REMOVAL OF ORGANIC MATERIALS.
 SEE MEP FOR OPENING SIZES AND LOCATIONS IN FOUNDATION WALLS.



S-101



OPENING (NTS)

—(3) #5 AT 8" OC FULL HT OF WALL AT CMU CL

PROVIDE REINF MATCHING TYP.

-BACKER ROD AND SEALANT

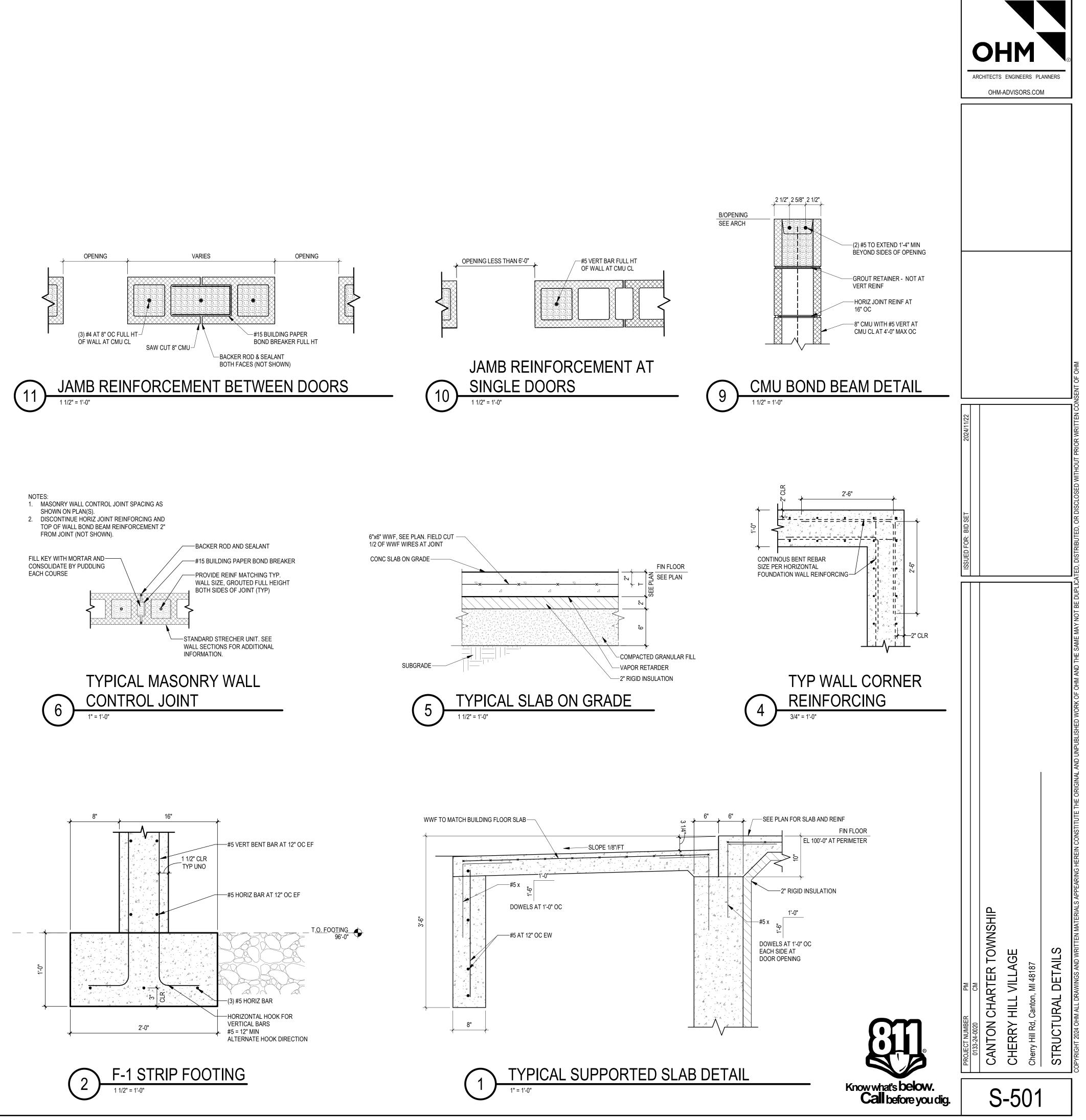
-#15 BUILDING PAPER

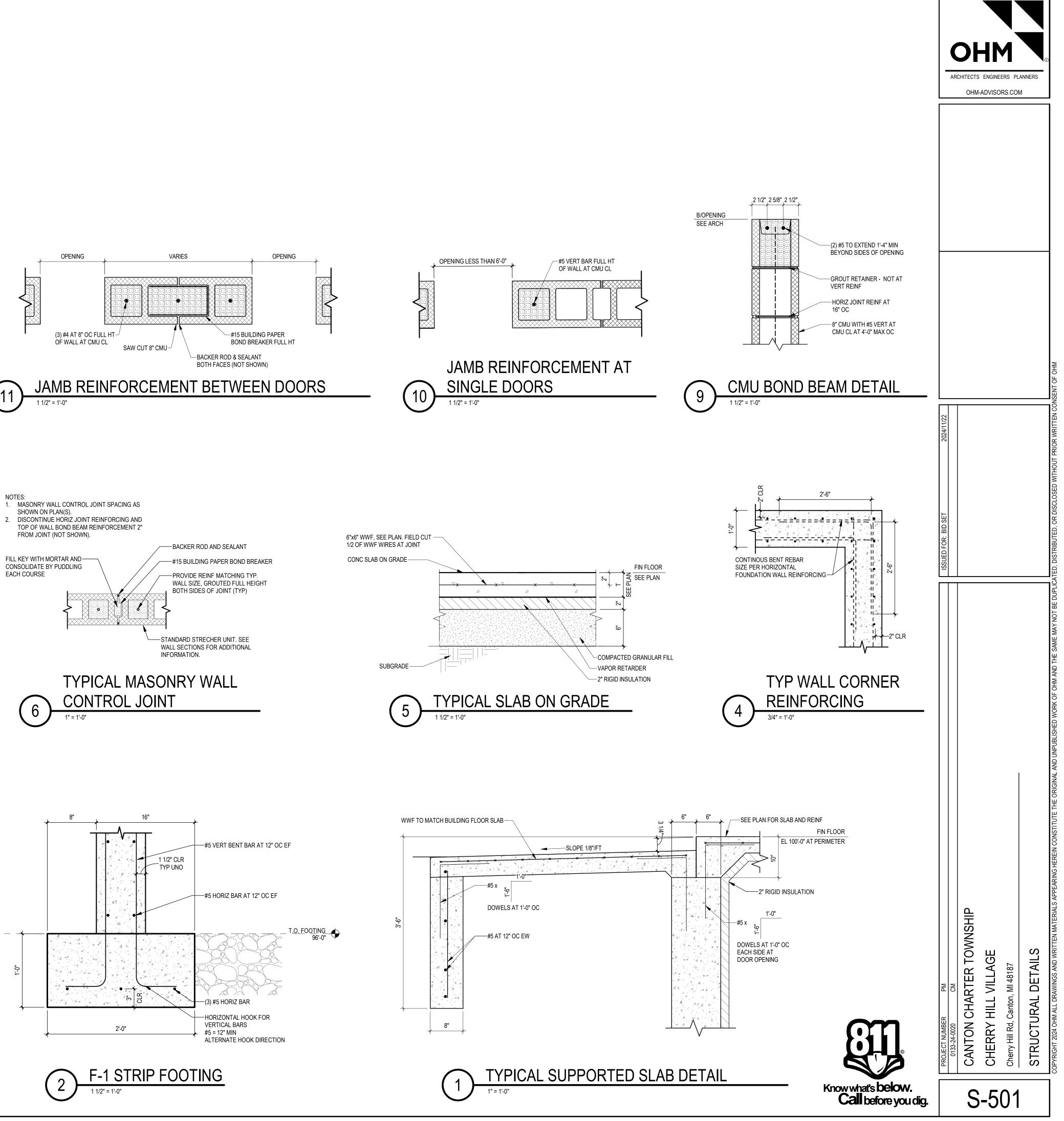
BOND BREAKER

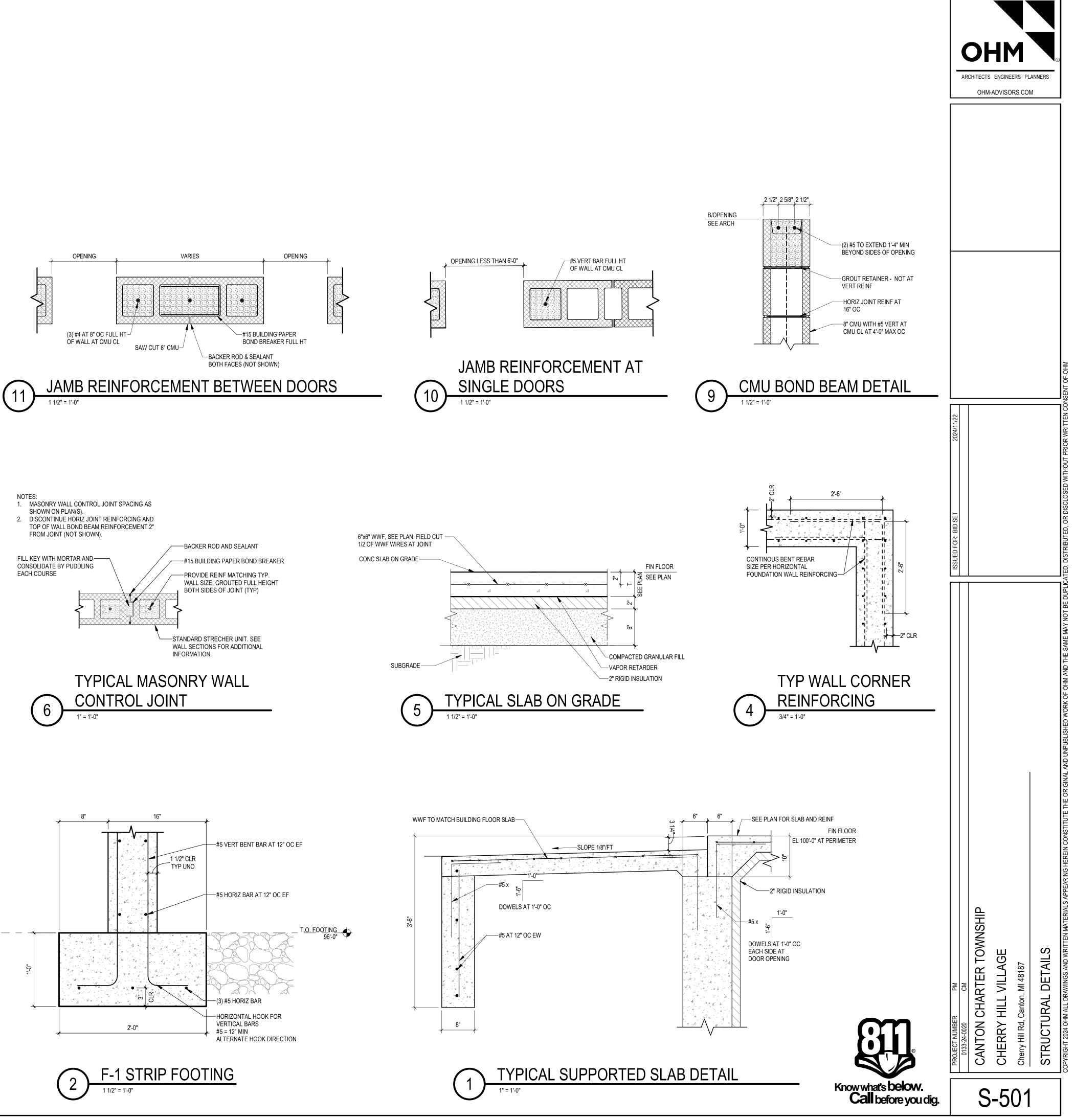
HEIGHT

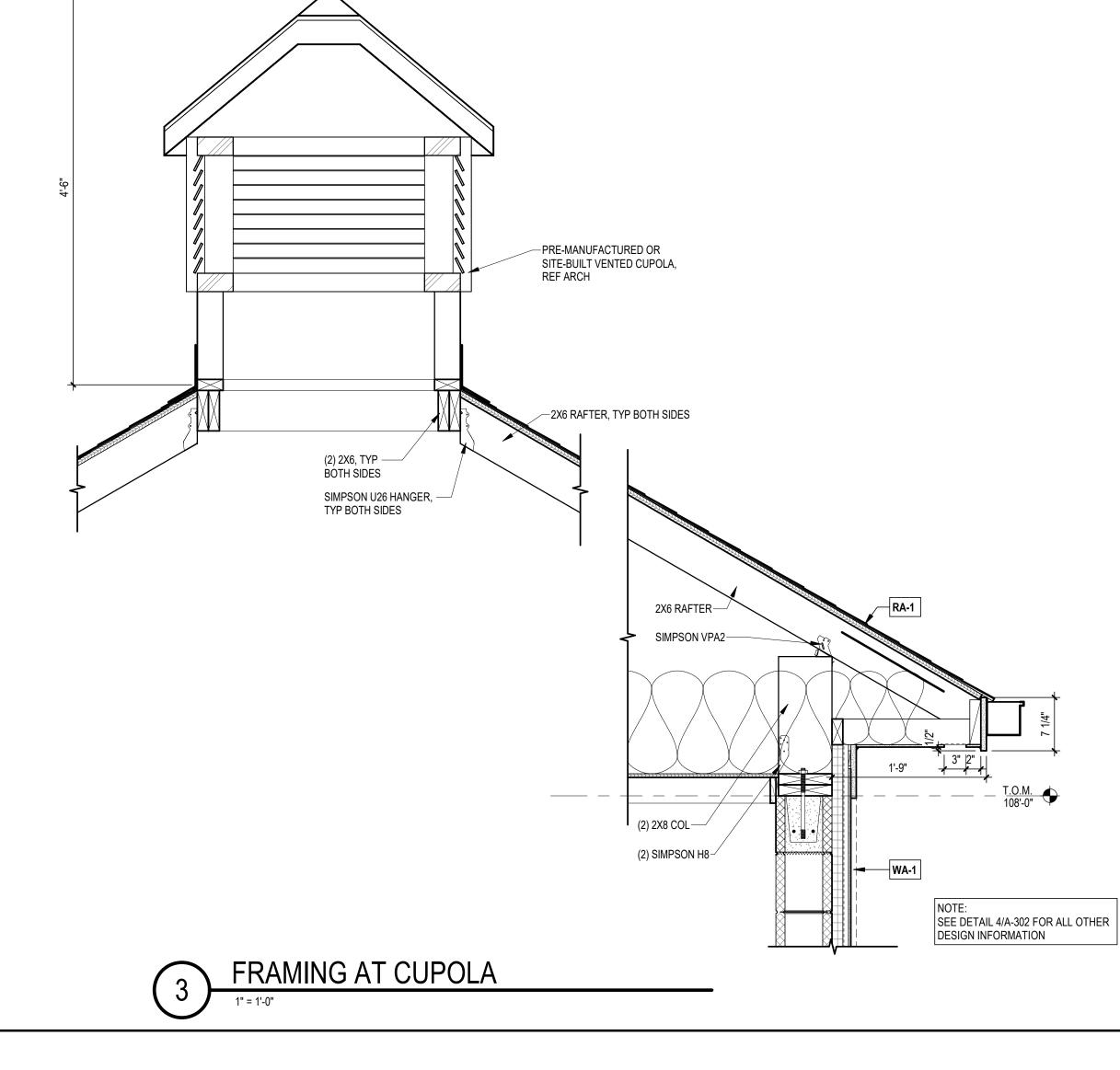
WALL REINF SIZE, GROUTED FULL

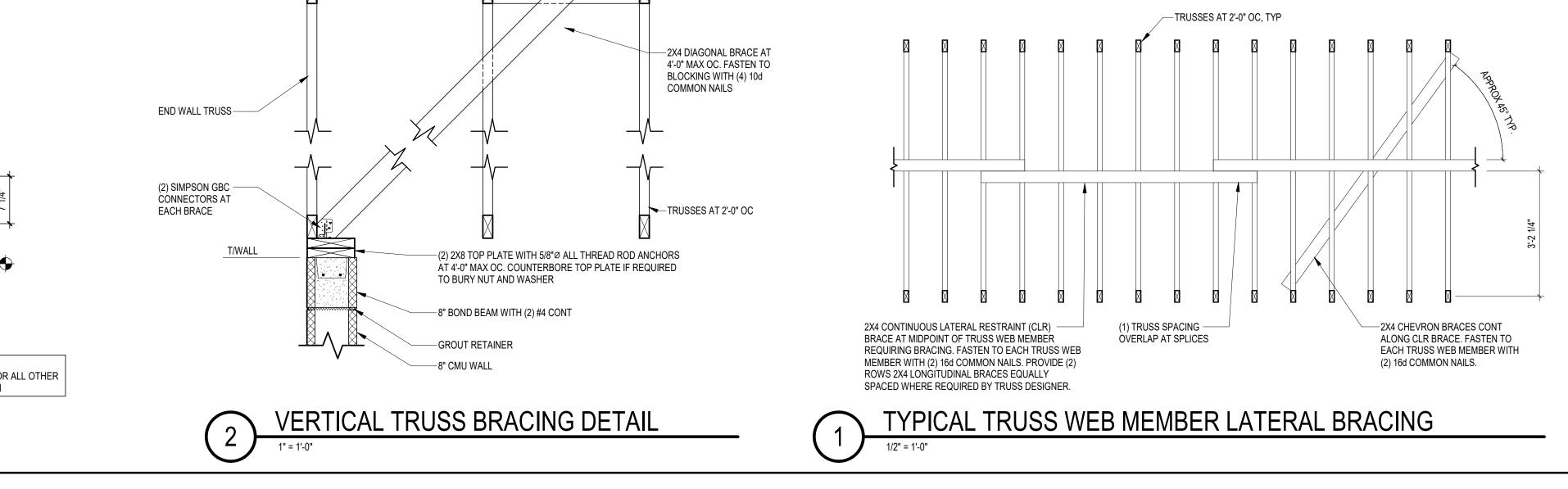
-8" CMU











1

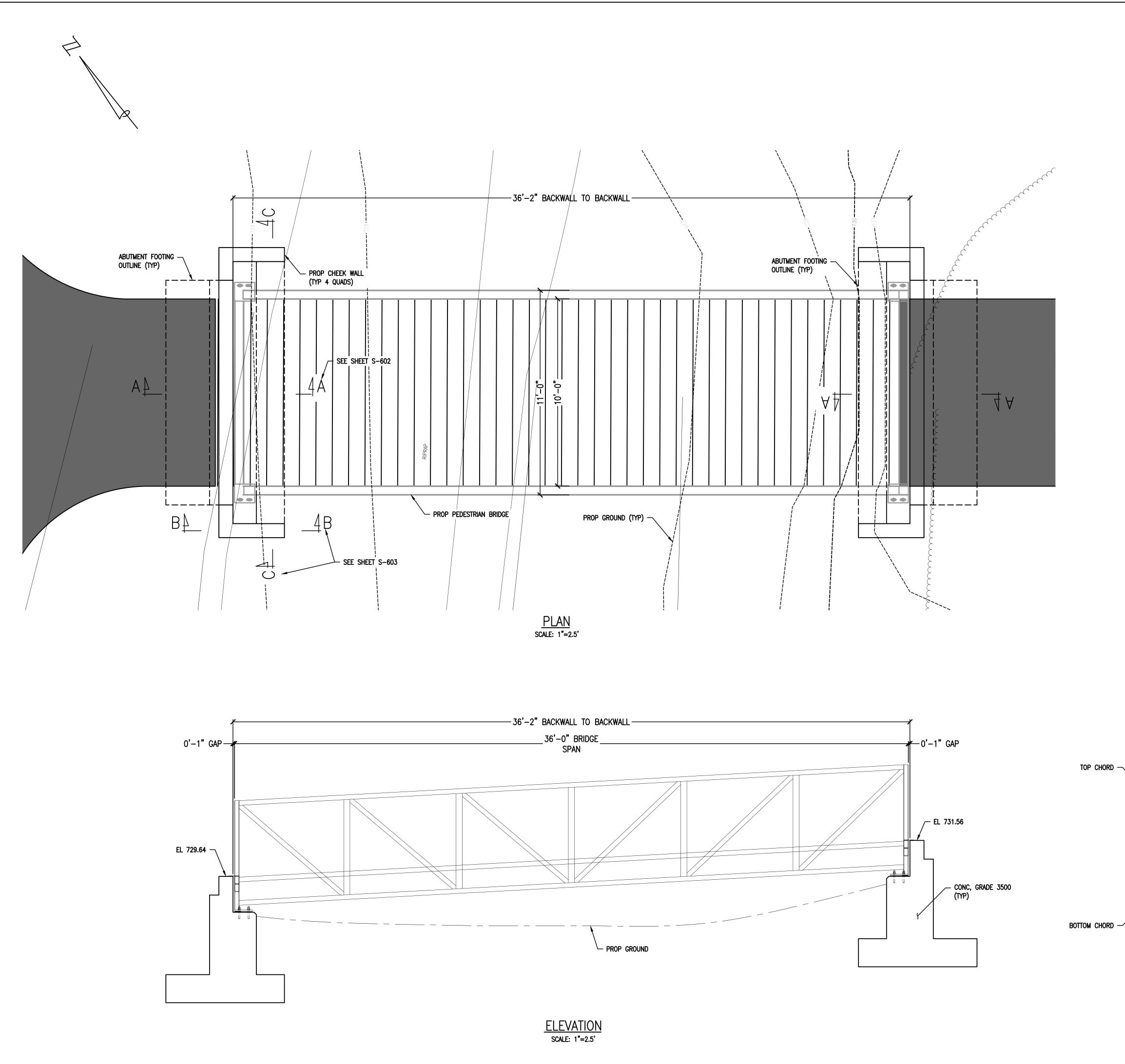
-2X4 BLOCKING BETWEEN TRUSSES WITH (2) 16d COMMON EACH END THROUGH TRUSS

2024/11/22				
ISSUED FOR: BID SET				
PROJECT NUMBER         PM           0133-24-0020         CM	TON CHARTER TOWNSHIP	RRY HILL VILLAGE	Hill Rd, Canton, MI 48187	STRUCTURAL DETAILS

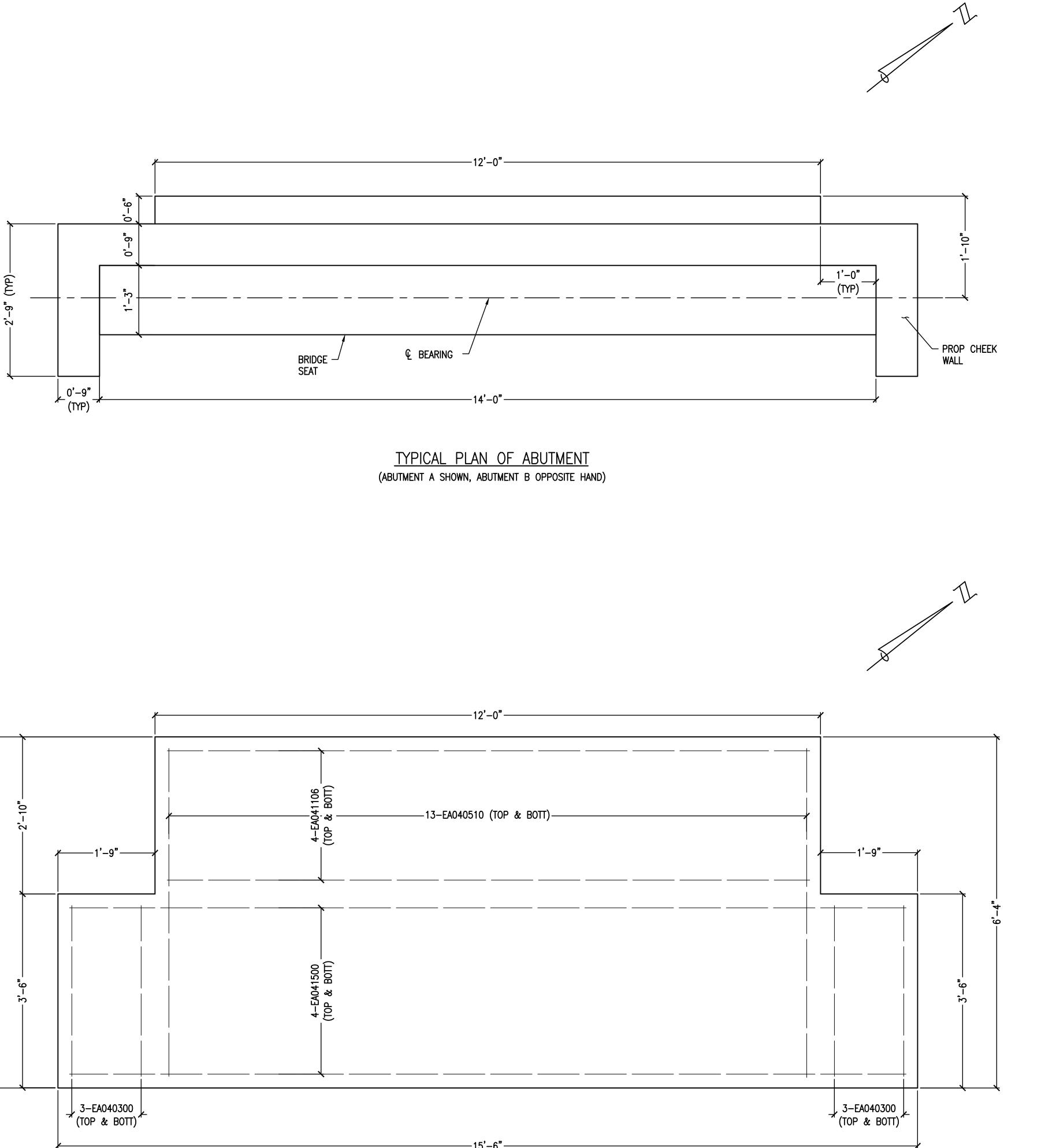
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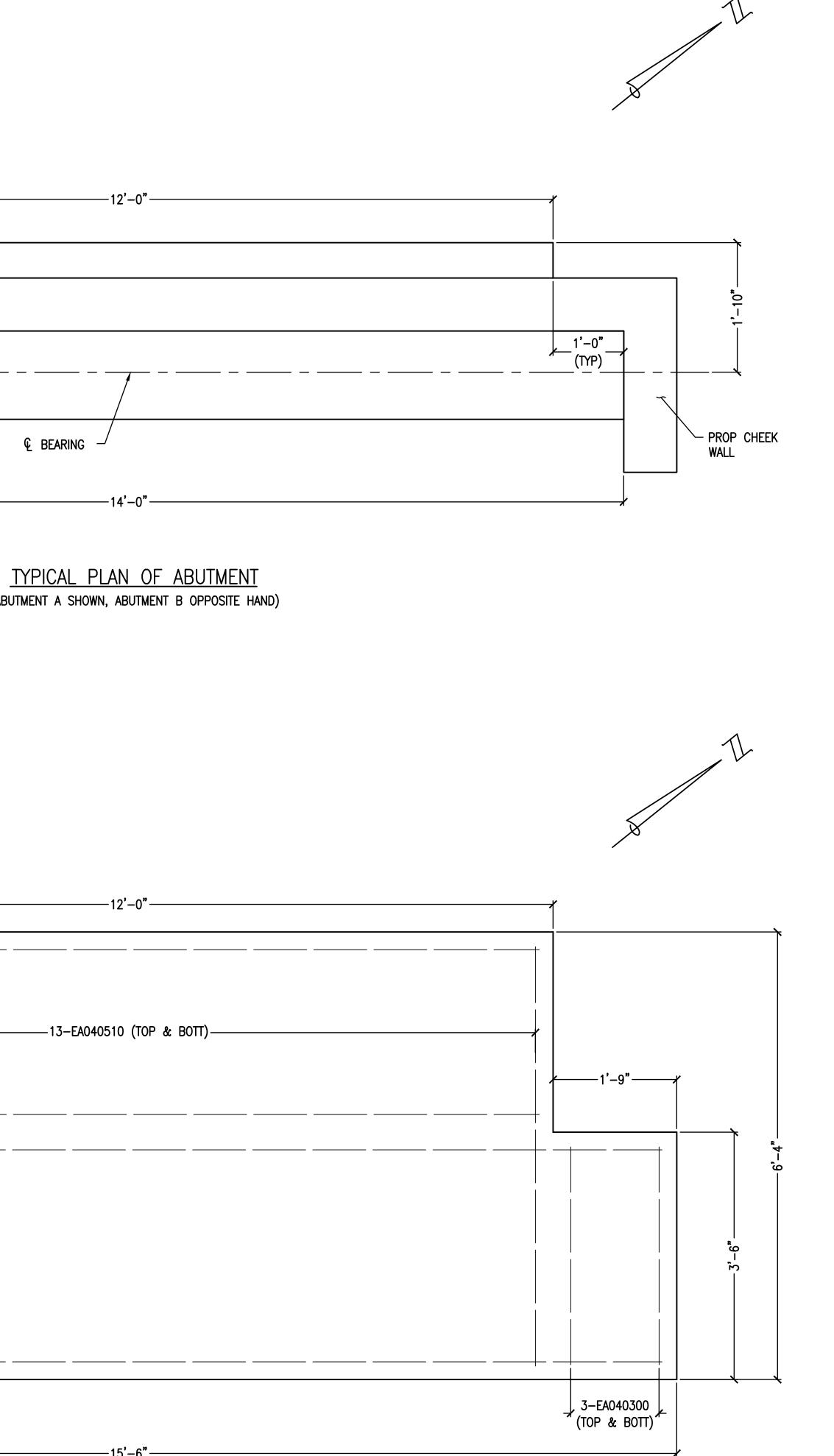
ARCHITECTS ENGINEERS PLANNERS

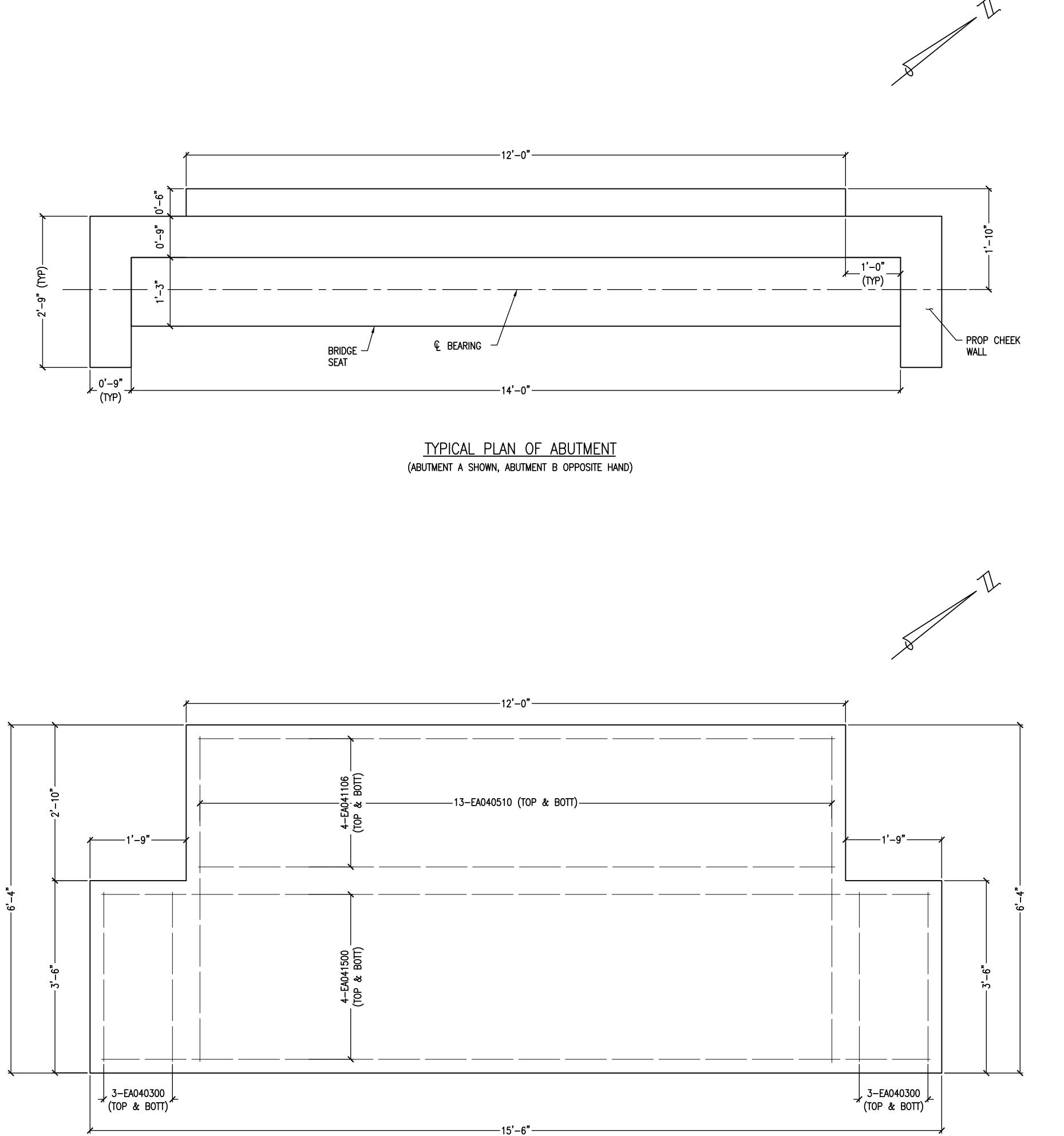
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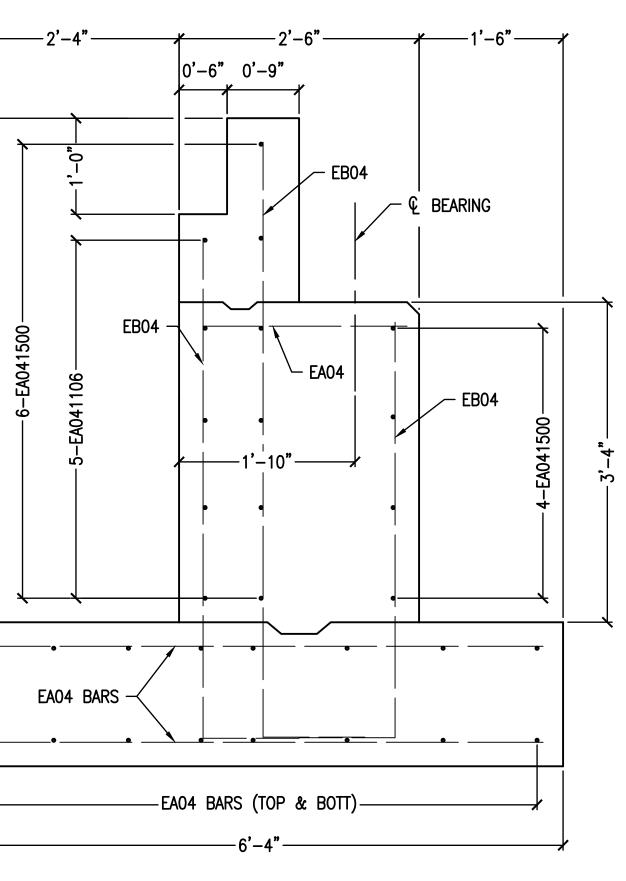
UNITES OF RELIABLE BASE AND	<u>Notes:</u> The contractor shall locate all active underground utilities prior to starting Work and shall conduct operations in such a manner as to ensure that those			RS PLANNERS
SAFETY RAIL 1 1\4" SCH 40 GALVANIZED AND PAINTED HANDRAIL PICKETS WITH 4" MAX. GAPS TOE RAIL 2" DURABLE RONWOOD DECK GRADE STRINGER (TYP) FLOOR BEAM BRIDGE SECTION SCALE: 1"=2"	<ul> <li>WORK AND SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.</li> <li>PLAN ELEVATIONS REFER TO NAVD 88 DATUM.</li> <li>WATER LEVEL IS SUBJECT TO CHANGE THE CONTRACTOR IS RESPONSIBLE FOR MAKING A DETERMINATION OF WATER LEVELS THAT MAY EXIST DURING CONSTRUCTION.</li> <li>IMMEDIATELY AFTER THE CONSTRUCTION OF AN ABUTMENT IS COMPLETED, SLOPE PROTECTION AND SEEDING OR SODDING SHALL BE PLACED ON THE ADJACENT EMBANKMENT SLOPES.</li> <li>CONSTRUCTION EQUIPMENT SHALL NOT BE PERMITTED ON OR ALLOWED TO CROSS THE PROPOSED BRIDGE.</li> <li>THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT ASSHTD LRFD BRIDGE DESIGN SPECIFICATION POETRAN LOADING OF 90 PSF AND A MAINTENANCE VEHICLE H5 LOADING NOT ACTING CONCURRENTLY.</li> <li>ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾".</li> <li>BRIDGE SEAT ELEVATION MAY VARY DEPENDING ON THE SUPERSTRUCTURE FABRICATOR. MODIFICATION TO THE ADJUTENT SEAT, REINFORCING STELL LENGTH AND ANCHOR BOLT SPACING SHALL BE CONSIDERED INCIDENTAL TO ITEM 'PREFABRICATED BRIDGE, 36-FT'.</li> <li>BEARING BASE PLATE AND SETTING PLATE SHALL BE DETERMINED BY BRIDGE FABRICATOR. THE EXPANSION BEARING SHALL HAVE THE SLIDING DEVICES WITH BONDED TEFLON AND STANLESS PLATES. ALL PLATES AND BEARING DEVICES SHALL BE INCLUDED WITH ITEM 'PREFABRICATED BRIDGE, 36-FT'.</li> <li>ANCHOR BOLTS SHALL BE 1" DIA. STAINLESS STEEL ANCHOR BOLTS WITH (2) NUTS AND (1) O.D. WASHER EACH. BOTH NUTS TIGHT AT FIXED END ONLY. TOP NUT TIGHT, BOTTOM NUT FINGER THEN AT EXPANSION END. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE INCLUDED WITH ITEM 'PREFABRICATED BRIDGE, 36-FT'.</li> <li>CONCRETE ABOVE THE ABUTMENT SEAT AND WINGWALL CONSTRUCTION JOINTS SHALL NOT BE POURED UNTIL AFTER THE TRUSS BRIDGE IS ERECIDED IN PLACE.</li> <li>A GEOTECHNICAL ENGINEER SHALL VERIFY THE BEARING SOLS ARE CAPABLE OF HANDLING 3000 PSF PRIOR TO CONSTRUCTION OF BAUTHENTS. PROVIDE WITTEN CONFIRMATION TO THE</li> </ul>	BID SET 2024/11/22 DESCRIPTION DATE		
	SAFETY RAIL 1 1\4" SCH 40 GALVANIZED AND PAINTED HANDRAIL PICKETS WITH 4" MAX. GAPS TOE RAIL 2" DURABLE IRONWOOD DECK GRADE STRINGER (TYP) FLOOR BEAM BRIDGE SECTION	PROJECT NUMBER PM 0133-24-0020 CM	CANTON CHARTER TOWNSHIP CHERRY HILL VILLAGE PHASE 1	CANTON TOWNSHIP, MICHIGAN GENERAL PLAN OF STRUCTURE







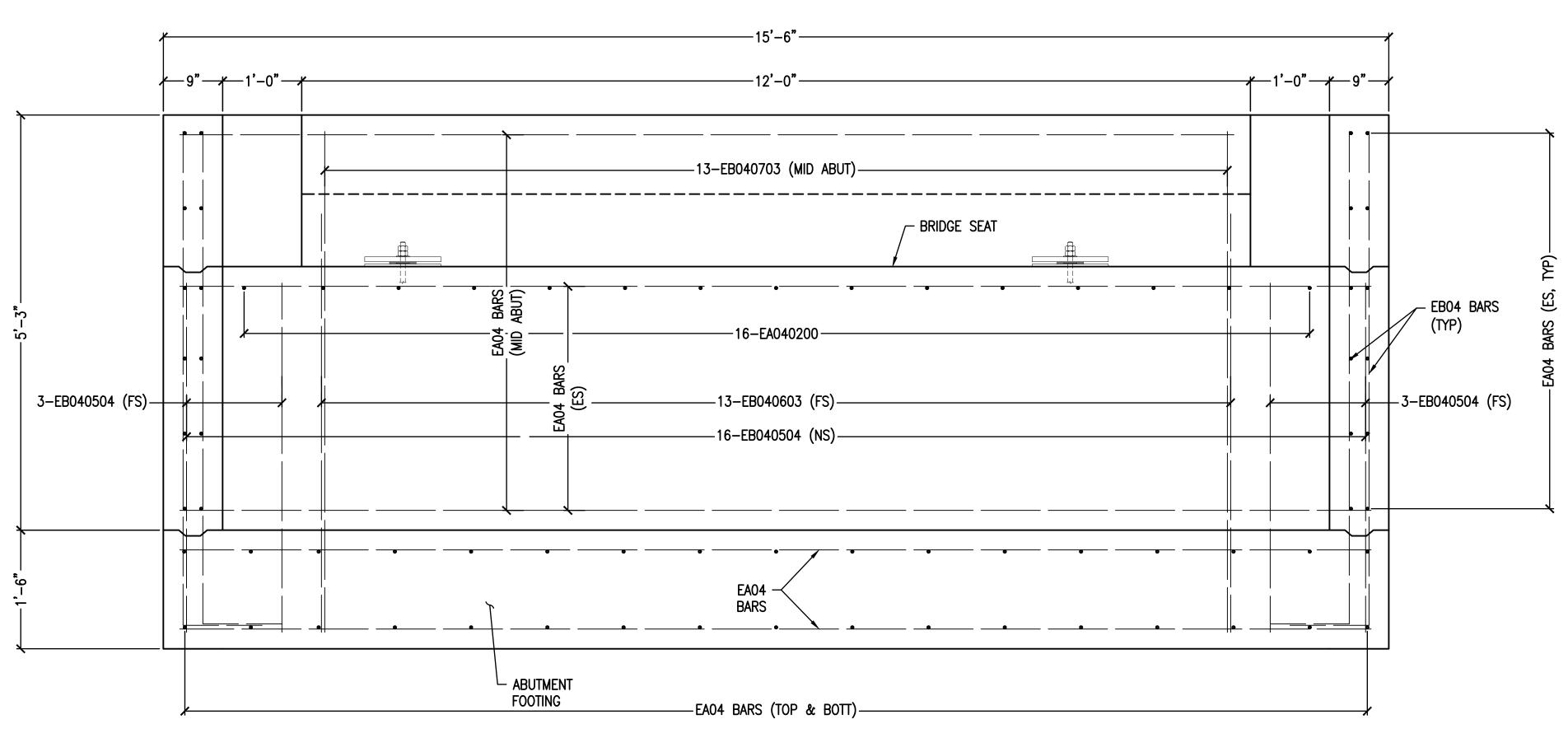
ABUTMENT FOOTING PLAN (ABUTMENT A SHOWN, ABUTMENT B OPPOSITE HAND)

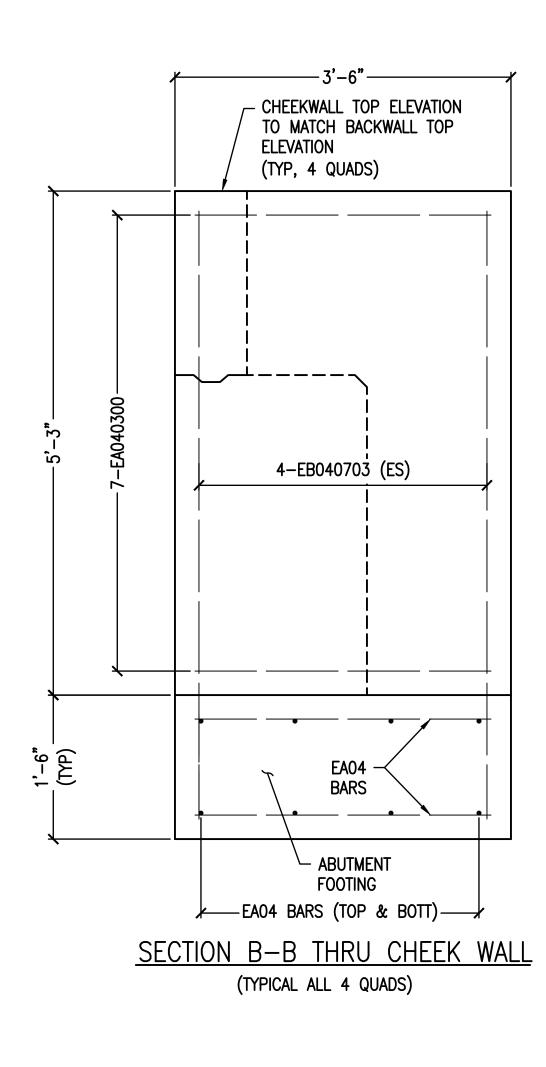


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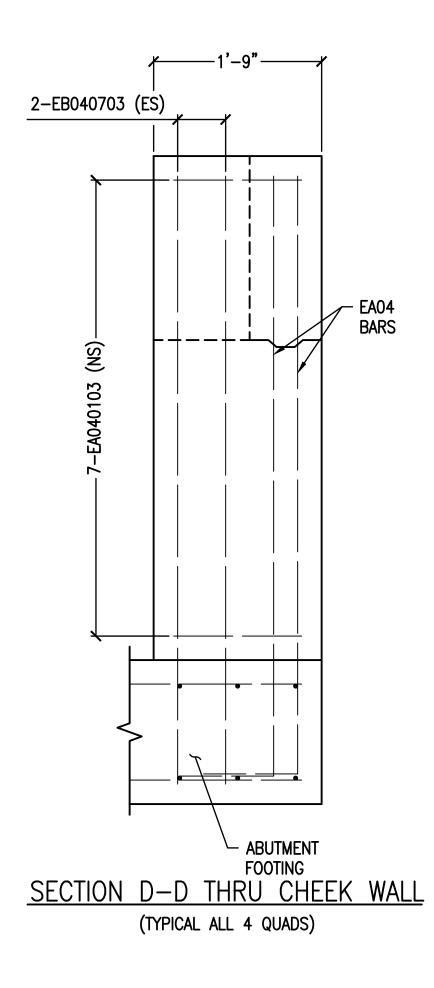
<u>TYPICAL SECTION THRU ABUTMENT, A-A</u>

ISSUED FOR:     BID SET     2024/11/22       REVISION     DESCRIPTION     DATE	PROJECT NUMBER PM 0133-24-020 CM CANTON CHARTER TOWNSHIP CANTON CHARTER TOWNSHIP CHERRY HILL VILLAGE PHASE 1 CANTON TOWNSHIP, MICHIGAN CANTON TOWNSHIP, MICHIGAN BRIDGE DETAILS
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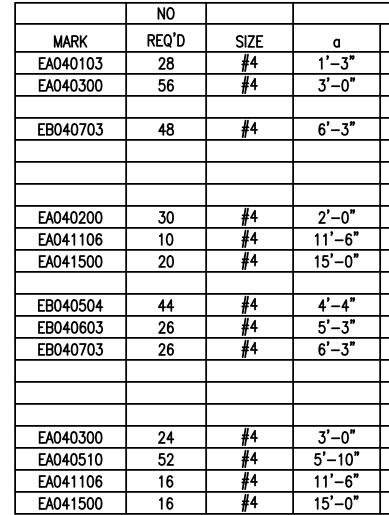
SECTION C-C THRU ABUTMENT

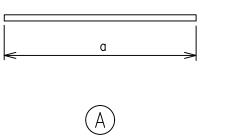




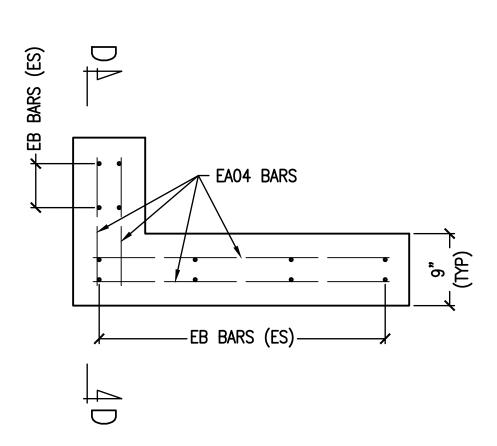
<u>ABUTMENT</u> <u>STEM</u>

FOOTING





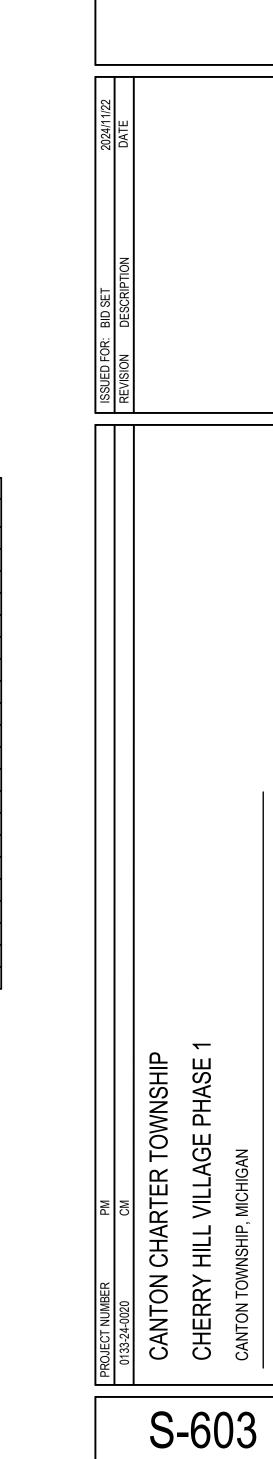






TOTAL	-			SIONS	DIMENS		
WEIGHT	h	g	f	e	d	с	ь
24							
113							
233							1'-0"
44							
41							
201							
201							
157							1'-0"
109							1'-0"
126							1'-0"
49							
203							
123							
161							

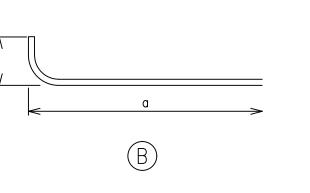


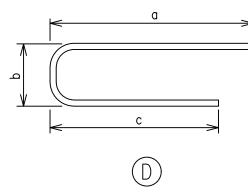




EPOXY COATED BAR SIZE

BAR LENGTH (FT) BAR LENGTH (IN)





## ABBREVIATIONS

SEE LEGENDS ON A-002 FOR ACCESSORY

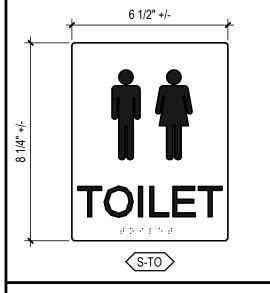
А	
&	AND
@	AT
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS
	INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
В	
вот	BOTTOM
BRK	BRICK
BSMT	BASEMENT
С	
CJ	CONTROL JOINT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
D	2011
DN	DOWN
DS	DOWNSPOUT
E	
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EQ	EQUAL
EXST	EXISTING
F FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
	FINISHED FLOOR
FF	THRONED TEOOR
	FIRE HOSE CABINET
FF	
FF FHC	FIRE HOSE CABINET
FF FHC FO FRTW	FIRE HOSE CABINET FACE OF FIRE RETARDANT TREATED WOOD
FF FHC FO FRTW FSP	FIRE HOSE CABINET FACE OF FIRE RETARDANT TREATED WOOD FIRE STANDPIPE
FF FHC FO FRTW	FIRE HOSE CABINET FACE OF FIRE RETARDANT TREATED WOOD

ABBREVIATIONS					
SEE LEGE ABBREVIA	NDS ON A-002 FOR ACCESSORY TIONS				
G GB GYP	GYPSUM BOARD GYPSUM				
н					
HD	HEAD				
HDW	HARDWARE				
HVAC	HEATING-VENTILATING-AIR CONDITIONING				
HW	HOT WATER				
l IN	INCH / INCHES				
L					
LB	POUND				
LDG	LANDING LEVEL				
M MAX	MAXIMUM				
MAX	MEZZANINE				
MFR	MANUFACTURER				
MIN	MINIMUM				
MISC	MISCELLANEOUS				
MO	MASONRY OPENING				
MO					
Ν					
NA	NOT APPLICABLE				
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION				
NIC	NOT IN CONTRACT				
No.	NUMBER				
NTS	NOT TO SCALE				
0					
OC	ON CENTER				
OPP	OPPOSITE				
OPP HND	OPPOSITE HAND				
Ρ					
P.F.	PRE FINISHED				
PSF	POUNDS PER SQUARE FOOT				
PSI	POUNDS PER SQUARE INCH				
Q					
QTY	QUANTITY				
_					
R					
R	RISER				
RD	ROOF DRAIN				
RO	ROUGH OPENING				

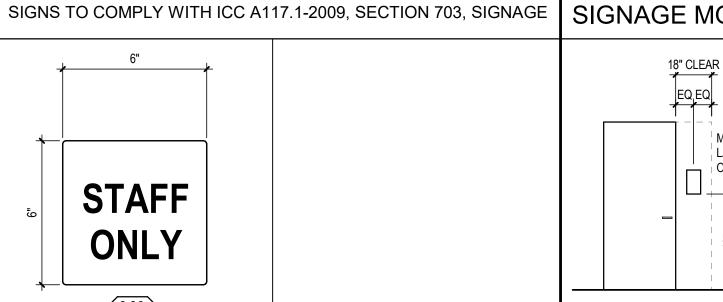
## ABBREV/IATIONS

A	ABREVIATIONS	MECHANICAL
ABBREV	GENDS ON A-002 FOR ACCESSORY IATIONS	103     1 CALCULATED       92 SF     168 CAPACITY       1 Occ     V
S SAB	SOUND ATTENUATION BLANKET	
SD	SMOKE DETECTOR	
SF	SQUARE FOOT	
SIM	SIMILAR	
SQ IN	SQUARE INCH	TOILET         100 SF           101         102           300 SF
T		
Т	TREAD	
T&B	TOP & BOTTOM	
TYP U UNO	TYPICAL UNLESS NOTED OTHERWISE	1 CALCULATED 168 CAPACITY 168 CAPACITY
V		
VIF	VERIFY IN FIELD	
W		
W/	WITH	CODE PLAN
W/O WWF	WITHOUT WELDED WIRE FABRIC	
VVVF	WELDED WIRE FADRIC	1/8" = 1'-0"
		CODE PLAN LEGEND
		ROOM NAME     ROOM NAME       101     ROOM NUMBER       150 SF     ROOM AREA       1,254 Occ     NUMBER OF OCCUPANTS
		XXX CALCULATED       CALCULATED OCCUPANT LOAD AT EGRESS COMPONENT         XXX CAPACITY       CAPACITY OF EGRESS COMPONENT
		(X'-X") TRAVEL DISTANCE TO NEAREST EXIT
		Path Label     Path Label     Path OF EGRESS TRAVEL     TRAVEL DISTANCE TO EXITS = 300 FT MAX     COMMON PATH OF TRAVEL = 75' MAX     DEAD ENDS = 20' MAX
		PORTABLE FIRE EXTINGUISHERS
		FIRE EXTINGUISHERS
		MULTI-PURPOSE CHEMICAL





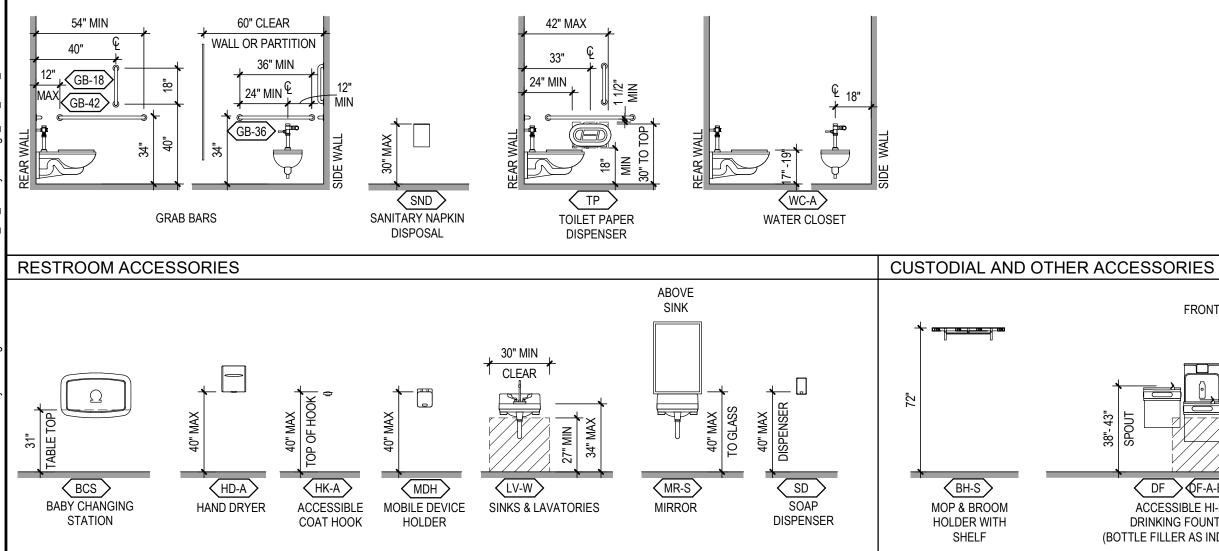


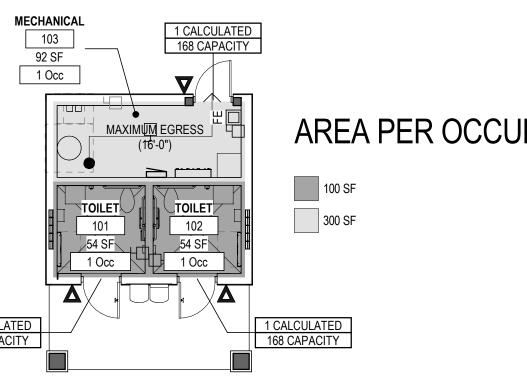


## MOUNTING LOCATIONS LEGEND

**GENERAL NOTES:** 

COMPLY WITH THE STATE BUILDING CODE, ICC A117.1, AND THE AMERICANS WITH DISABILITIES ACT. EXPOSED WATER SUPPLY AND DRAINAGE PIPES BELOW LAVATORIES OR SINKS MUST BE INSULATED OR OTHERWISE POSITIONED TO PROTECT AGAINST CONTACT. THERE MUST BE NO SHARP OR ABRASIVE SURFACES BELOW LAVATORY. TOILET COMPARTMENT ACCESSORIES





MULTI-PURPOSE CHEMICAL

SIGNAGE MOUNTING LEGEND COMPLY WITH ICC A117.1 SECTION 703.2.8

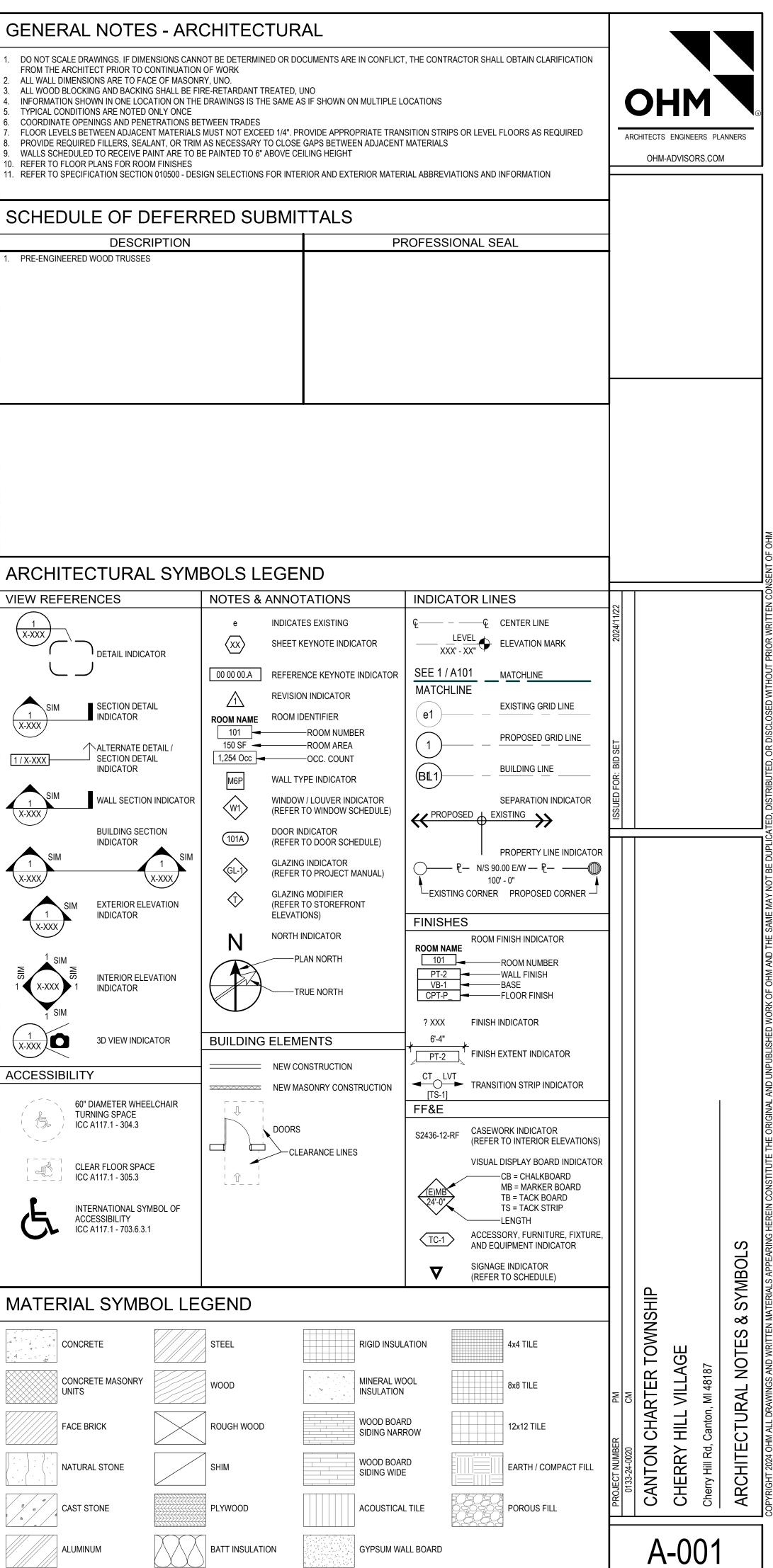
MOUNT ON

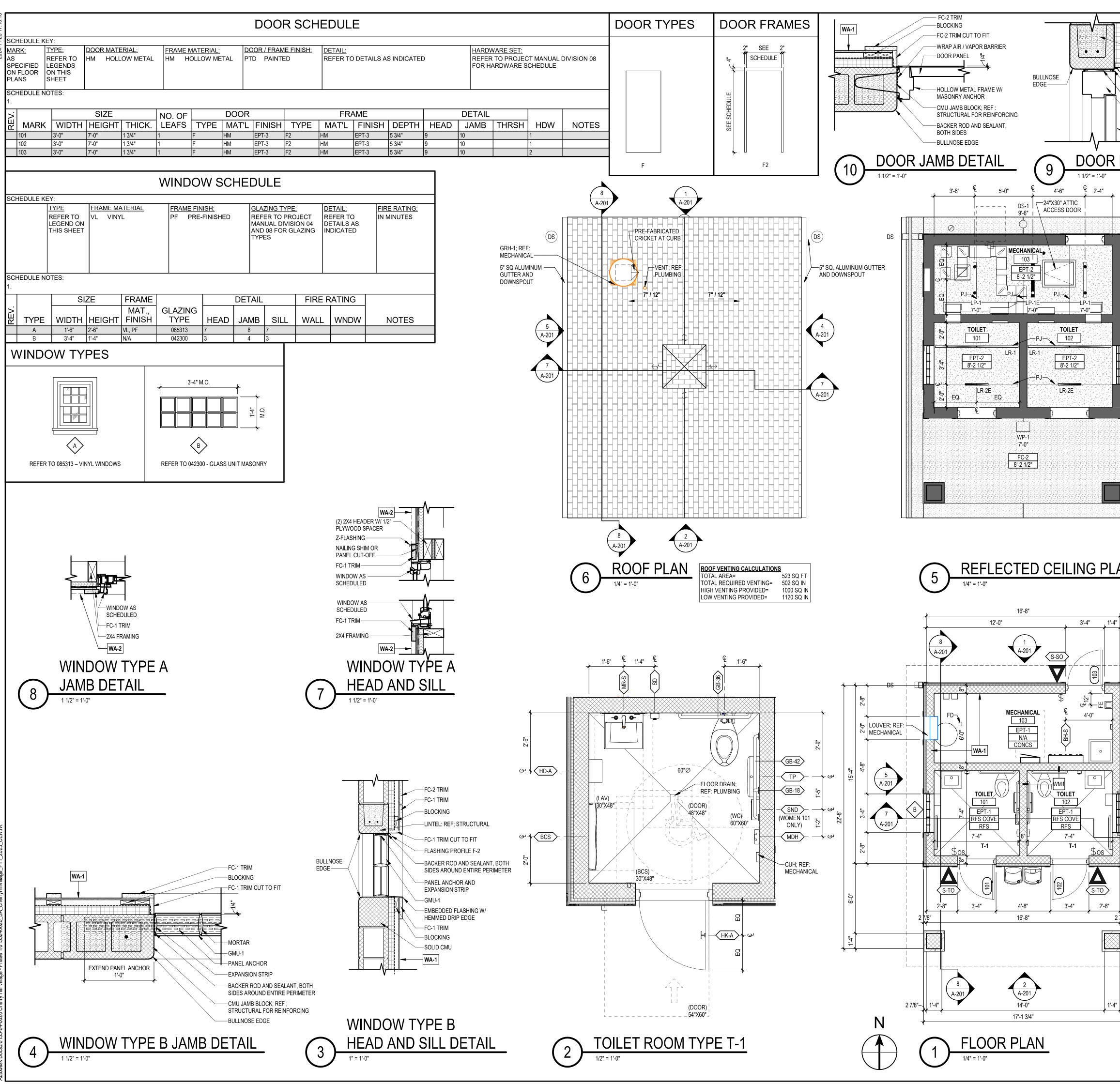
LATCH SIDE

OF DOOR

FRONT SIDE ¥ @≶ FE DF OF-A-BF 17" \* \* \* MIN FIRE ACCESSIBLE HI-LO DRINKING FOUNTAIN EXTINGUISHER (BOTTLE FILLER AS INDICATED)

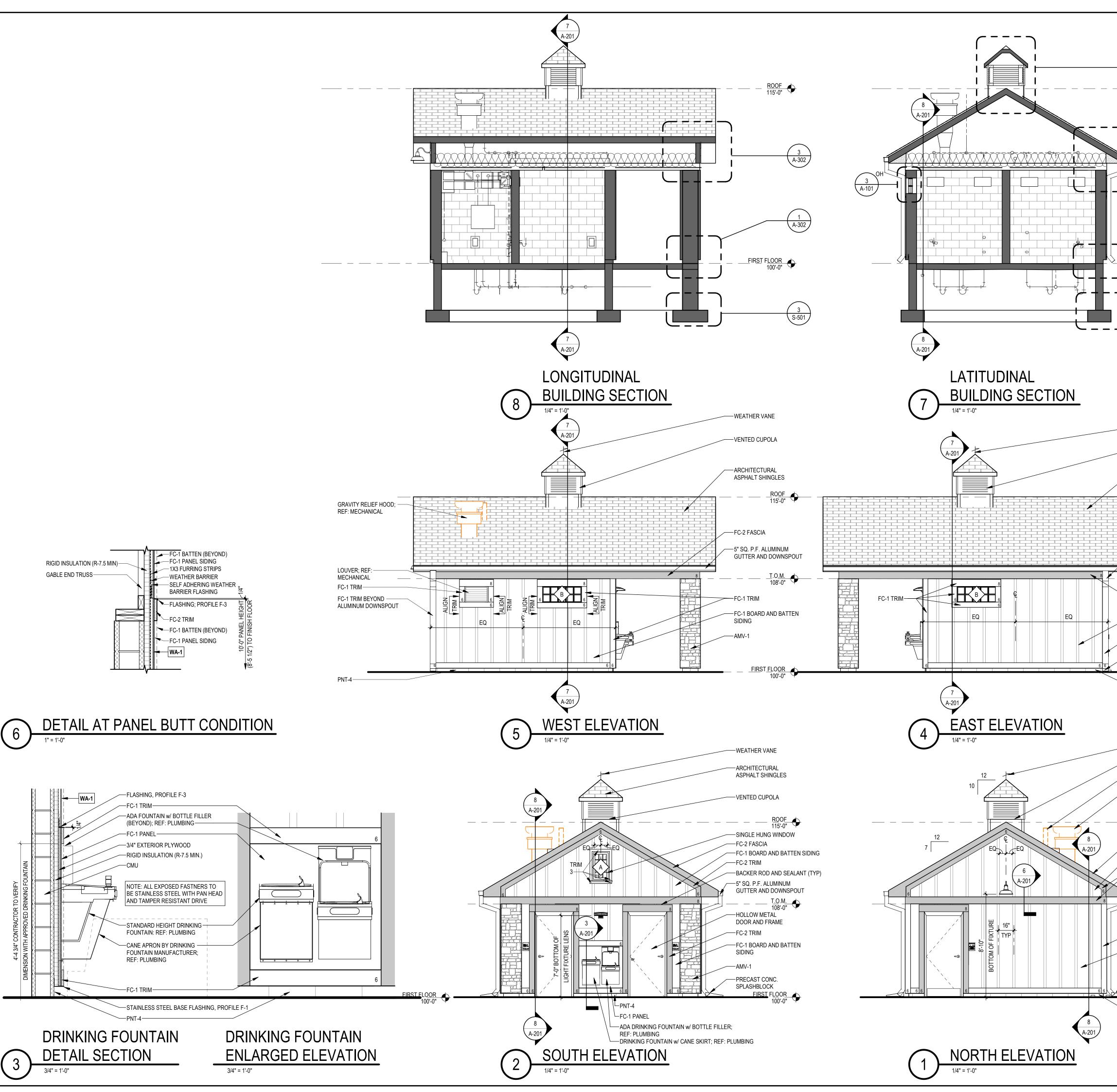
BUILDING SUMMARY PROJECT DESCRIPTION			GEN
LOCATION	Canton Township, MI		1. DO N
Project Description: Construction of a 270-square-foot designed to serve public facilities. The structure is cons Landscape updates include the creation of a centralized	structed of masonry, with an exterior fi	nish of fiber cement and cultured stone.	FROM 2. ALL V
seating areas. BUILDING CODE INFORMATION			3. ALL V 4. INFO
BUILDING	2015 Michigan Building Code		5. TYPI 6. COO
MECHANICAL PLUMBING ELECTRICAL	2021 Michigan Mechanical Code 2021 Michigan Plumbing Code 2021 National Electrical Code		7. FLOC
ENERGY FUEL GAS CODE		de referencing ANSI/ASHRAE/IESNA as referenced)	8. PRO 9. WALI
FIRE LIFE SAFETY	2015 International Fire Code NFPA 101, 2012		10. REFE 11. REFE
ACCESSIBILITY	2009 ICC/ANSI A117.1 & Michigan	Barrier Free Design 2010 & Americans	
PROJECT INFORMATION			
PROJECT SUMMARY USE & OCCUPANCY CLASSIFICATION	-	BUILDING 'A' : RESTROOM B	SC⊦
OCCUPANCY SEPARATION INCIDENTAL USE AREAS		NO NO	
ACCESSORY SPACES MEZZANINES/EQUIPMENT PLATFORMS		NO NO	1. PRE-
		VB	
FIRE & SMOKE PROTECTION FEATURES		UNPROTECED; NON-SPRINKLERED	
GENERAL BUILDING HEIGHTS AND AREAS	ALLOWED B. NS = 40'-0"	ACTUAL	5
[TABLE 504.3] HEIGHT		18'-6"	
[TABLE 504.4] STORIES	B, NS = 2	1 STORY	
[TABLE 506.2] AREA	B, NS = 9,000 SF	270 SF	
MIXED USE & OCCUPANCY	_		
NON-SEPERATED OCCUPANCIES		3 OCC	
[TABLE 504.3] MOST RESTRICTIVE HEIGHT [TABLE 504.4] MOST RESTRICTIVE STORIES [TABLE 506.2] MOST RESTRICTIVE AREA	40'-0" 1 9,000 SF		
[TABLE 506.2] MOST RESTRICTIVE AREA EXIT SIZES	OCC*0.2 FACTOR	0.6" REQ'D (36" PROVIDED)	
	BEOD BATING (112	UL/FM #	
ITEM PRIMARY STRUCTURE	REQ'D RATING / HR	WHERE APPLICABLE 0	
COLUMNS BEAMS	0	0	
BEARING WALLS EXTERIOR INTERIOR	0	0 0 0 0	
NONBEARING WALLS AND PARTITIONS EXTERIOR	0	0	
NONBEARING WALLS AND PARTITIONS INTERIOR ROOF CONSTRUCTION AND ASSOCIATED	0	0	
SECONDARY MEMBERS	0	0	ARC
			_
EXTERIOR WALL OPENINGS (TABLE 705.8) FIRE SEPARATION 30' OR GREATER	UNPROTECTED, NONSPRINKLERED (UP,NS) NO LIMIT		VIEW
FIRE PROTECTION SYSTEMS			$\int 1$
AUTOMATIC SPRINKLER SYSTEM: PORTABLE FIRE EXTINGUISHERS FIRE ALARM AND DETECTION:	YES	NO CLASS: A, B, C	X-XX
EMERGENCY ALARM SYSTEMS CO/NOX			
MEANS OF EGRESS	_		
COMMON PATH OF TRAVEL MEANS OF EGRESS SIZING	S: 100'; B: 75' (100' if >30 OCC)		
OTHER EGRESS COMPONENTS NUMBER OF EXITS	.2 INCHES PER OCCUPANT		$\begin{pmatrix} 1 \\ X-XX \end{pmatrix}$
OCCUPANT LOAD PER STORY 1-500 TRAVEL DISTANCE	MINIMUM NUMBER OF EXITS 2 200'		
DEAD END CORRIDORS	20'		1/X-X
ENERGY EFFICIENCY	1	[ASHRAE 90.1-2013]	
CLIMATE ZONE [TABLE B1-1] 5A	SPACE CATEGORY NONRESIDENTIAL	COMPLIANCE PATH PRESCRIPTIVE	
COMPONENT	CODE [TABLE 5.5-5]		$\frac{1}{X-XX}$
	ASSEMBLY MAX	INSULATION MIN / PROVIDED	
WALLS, BELOW GRADE WALLS, ABOVE GRADE MAS	C-0.119 SS U-0.090	R-7.5 C.I. / <b>R-7.5 C.I.</b> R-11.4 C.I. / <b>R-12.5 C.I.</b>	
SLAB-ON-GRADE FLOORS			
	ED F-0.520 ED F-0.688 U-0.500	<b>R-15 FOR 24 IN</b> R-20 FOR 48 IN U-0.500 / <b>U-0.29</b>	(X-XX)
ROOF ATTIC AND OTHER, SEMI-HEATED (BLDG '/		R-49 / <b>R-49</b>	
FENESTRATION [TABLE 5.5.5]		ASSEMBLY MAX. / SHGC / VT	
VERTICAL FENESTRATION 0% - 40%	METAL FRAMING, FIXED OPERABLE	U-0.42 / <b>U-0.3</b> U-0.50 / <b>U-0.3</b> / SHGC-0.40 / 1.10	
METAL FRAMING	ENTRANCE DOORS	U-0.77 / <b>U-0.29</b>	
PLUMBING FIXTURE CALCULATION			SIM
CLASSIFICATION / OCCUPANCY [TABLE 403.1] ASSEMBLY, A-5	DESCRIPTION OUTDOOR MUNICIPAL VENUE N SPECTATORS	IOT LARGER THAN 3,000	
BUILDING "A" - RESTRO			
REQUIRED	PROVIDED		$\begin{pmatrix} 1 \end{pmatrix}$
WC [1 PER 125] UR [67% ALLOWED PER WC]	1 0	1	X-XXX
LAV [1 PER 200]	0		ACCE
WOMEN WC [1 PER 65]	1 1	-	,
LAV [1 PER 150] OTHER [1 SERVICE SINK]	1	-	,
SHOWERS (MEN & WOMEN) DRINKING FOUNTAINS [1 PER 1,000]	2		
			`~
			г —
			l c L _



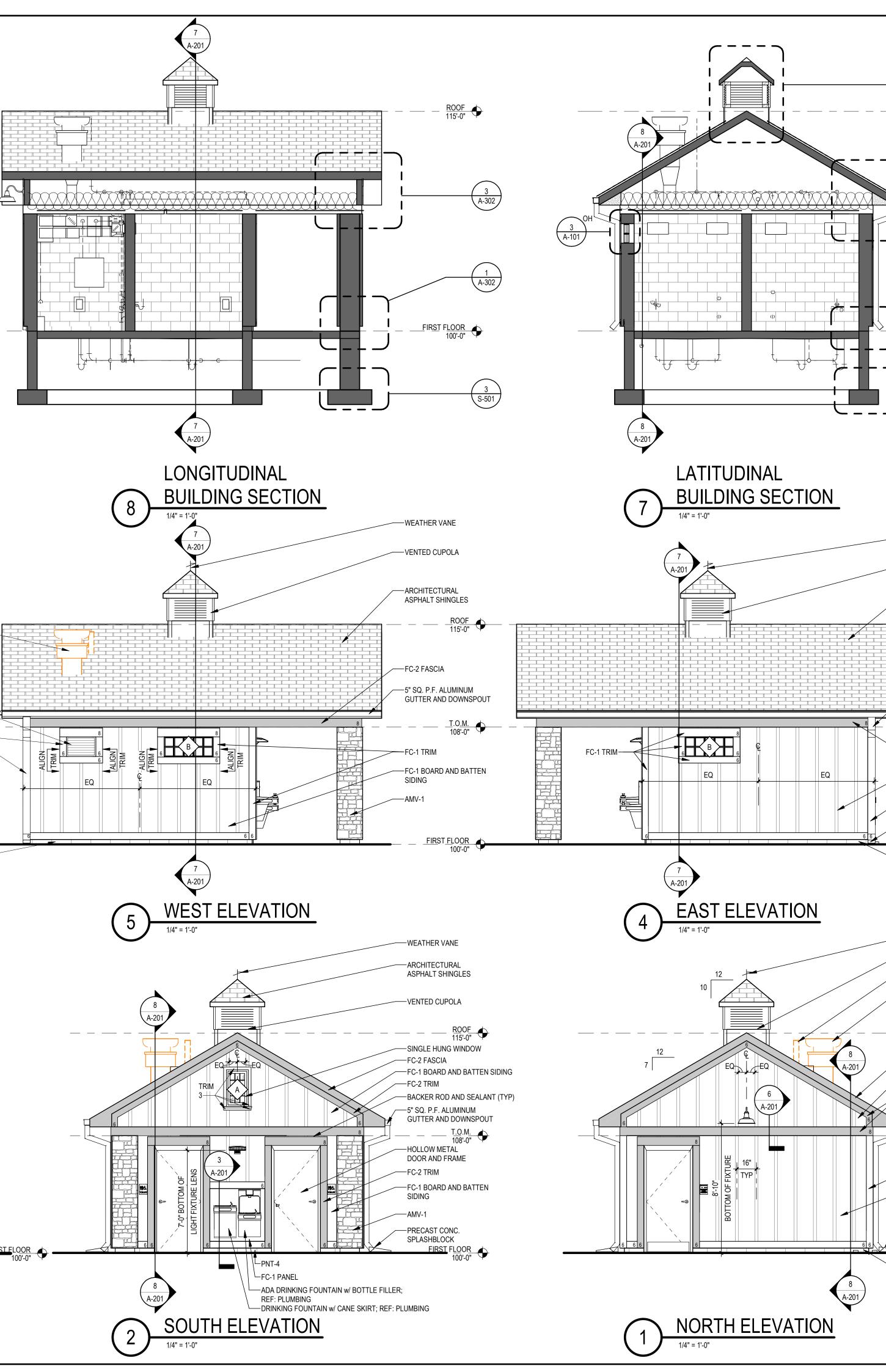


$\frac{4}{201}$	Selection of the property of the pr	PROJECT NUMBER PM 0133-24-0020 CM	I CHAF	CHERRY HILL VILLAGE	Cherry Hill Rd, Canton, MI 48187	PLANS, SCHEDULES, DETAILS
4	<ol> <li>REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS, AND FINISH INFORMATION.</li> <li>ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.</li> <li>PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT</li> </ol>					
;						
	<ol> <li>REFER TO SPECIFICATION SECTION 010500 - DESIGN SELECTIONS FOR INTERIOR AND EXTERIOR MATERIAL ABBREVIATIONS AND INFORMATION.</li> </ol>					
	<ol> <li>FIRST FLOOR REFERENCE ELEVATION 100'-0" = 733.80' (REFER TO CIVIL.)</li> <li>DO NOT SCALE DRAWINGS. IF DIMENSIONS CANNOT BE DETERMINED OR DOCUMENTS ARE IN CONFLICT, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUATION OF WORK</li> <li>REFER TO A-001 FOR ACCESSORY MOUNTING DIAGRAMS</li> <li>REFER TO A-301 FOR WALL AND ROOF ASSEMBLY TYPES, PARTITION TYPES, FLASHING PROFILES.</li> </ol>	ISSUED FOR: BI				
	Image: Second system       Dimensional asphalt shingles         DS       DOWN SPOUT         X:12       ROOF SLOPE	SID SET				
	<ol> <li>GENERAL NOTES - ROOF PLAN</li> <li>COORDINATE PENETRATIONS AND ROOF MOUNTED EQUIPMENT WITH MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DRAWINGS</li> <li>ALL ROOF PENETRATIONS SHALL BE SEALED WITH APPROPRIATE MATERIAL</li> <li>ALL EXPOSED METAL ELEMENTS TO BE PRE-FINISHED. COLOR AS SELECTED BY ARCHITECT</li> <li>REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON FINISHES &amp; INSTALLATION REQUIREMENTS</li> </ol>	024/11/22				
ISH NOTE NTS (PJ) IN EPT-2 WOOD CEILINGS TO BE 3", FILLED WITH RYLIC LATEX SEALANT DLED FLAT PRIOR TO NTING (PAINT OVER NT)	Image: Image					
;	LIGHT FIXTURES       HVAC DEVICES         (REFER TO ELECTRICAL DRAWINGS)       (REFER TO MECHANICAL DRAWINGS)         • • • • • • • • • • • • • • • • • • •	-				
DETAIL	CA-1 X'-X" CEILING TYPE X'-X" CEILING ELEVATION EPT-2 1/2" ACX GRADE PLYWOOD FC-2 FIBER CEMENT SOFFIT VENT REF: 07 46 46 FIBER-CEMENT SIDING					
2-FLASHING BACKER ROD AND BEALANT, BOTH SIDES WOOD SHIM HOLLOW METAL FRAME	REFLECTED CEILING PLAN LEGEND	AF				
C-2 TRIM FLASHING F-3 INTEL; REF: STRUCTURAL C-2 TRIM BLOCKING C-2 TRIM CUT TO FIT	<ol> <li>REFER TO PROJECT INFORMATION SHEET FOR MATERIAL / REFERENCE SYMBOLS AND ABBREVIATIONS</li> <li>REFER TO MECHANICAL, ELECTRICAL, FOR QUANTITY AND TYPE OF CEILING MOUNTED FIXTURES / DEVICES.</li> <li>REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILINGS ARE REQUIRED OR INDICATED</li> <li>REFER TO ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULE</li> </ol>		01	<b>1</b> H		
	LASHING F-3 INTEL; REF: STRUCTURAL C-2 TRIM COCKING C-2 TRIM CUT TO FIT FLASHING ACKER ROD AND EALANT, BOTH SIDES WOOD SHIM IOLLOW METAL FRAME DOOR PANEL DETAIL SH NOTE VTS (PJ) IN EPT-2 WOOD CEILINGS TO BE I'', FILLED WITH EYLIC LATEX SEALANT DLED FLAT PRIOR TO VTING (PAINT OVER	LAHING 7-3 NTEL REFER TO PROJECT INFORMATION SHEET FOR MATERIAL / REFERENCE SYMBOLS AND ADDREVATIONS COLONARY CATEMOTION TO FIT FLASHING COCKING COLTING TO FIT FLASHING ACCER DO AND EAMANT, DOT NOSE FLASHING COLONARY EARANT, DOT NOSE FLASHING COLONARY EARANT, DOT NOSE FLASHING COLONARY EARANT, DOT NOSE NOO OSHING COLONARY EARANT, DOT NOSE NOO OSHING NOO OSHING COLONARY EARANT, DOT NOSE NOO OSHING COLONARY EARANT, DOT NOSE NOO OSHING NOO SHEATHING WITH COLONARY EARANT, DOT NOSE NOO SHEATHING WITH COLONARY EARANT, DOT NOSE NOO SHEATHING WITH NUCLOTARY EARANT NOO SHEATHING WITH NUCLOTARY EARANT NOO SHEATHING WITH NUCLOTARY EARANT NOO SHEATHING WITH NUCLOTARY EARANT NUCLOTAR	Light of Jackshort - Address Structure, address Structure			



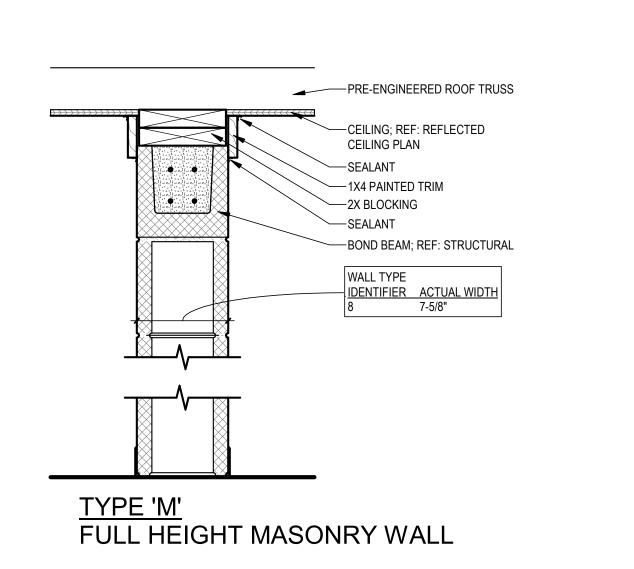


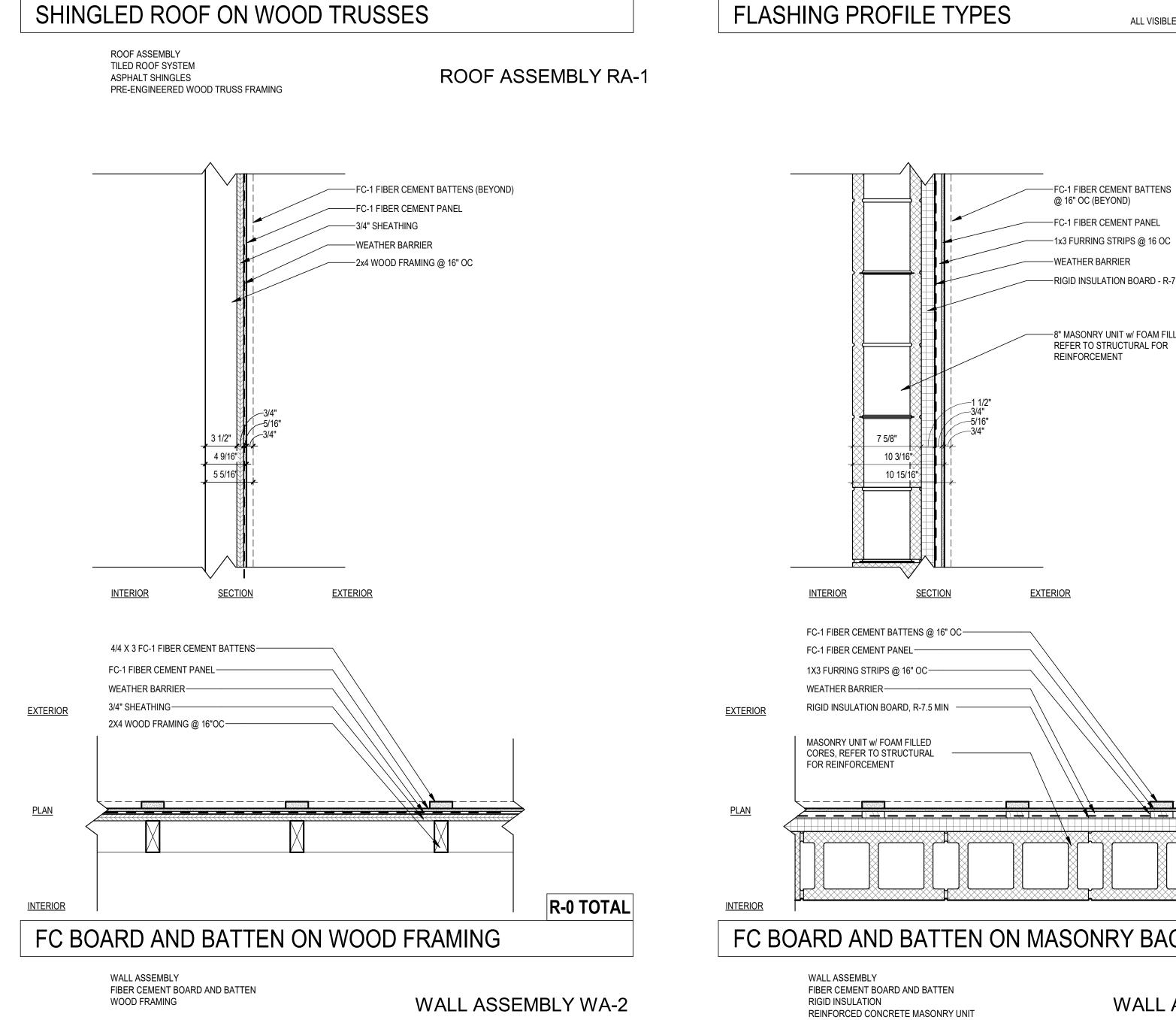


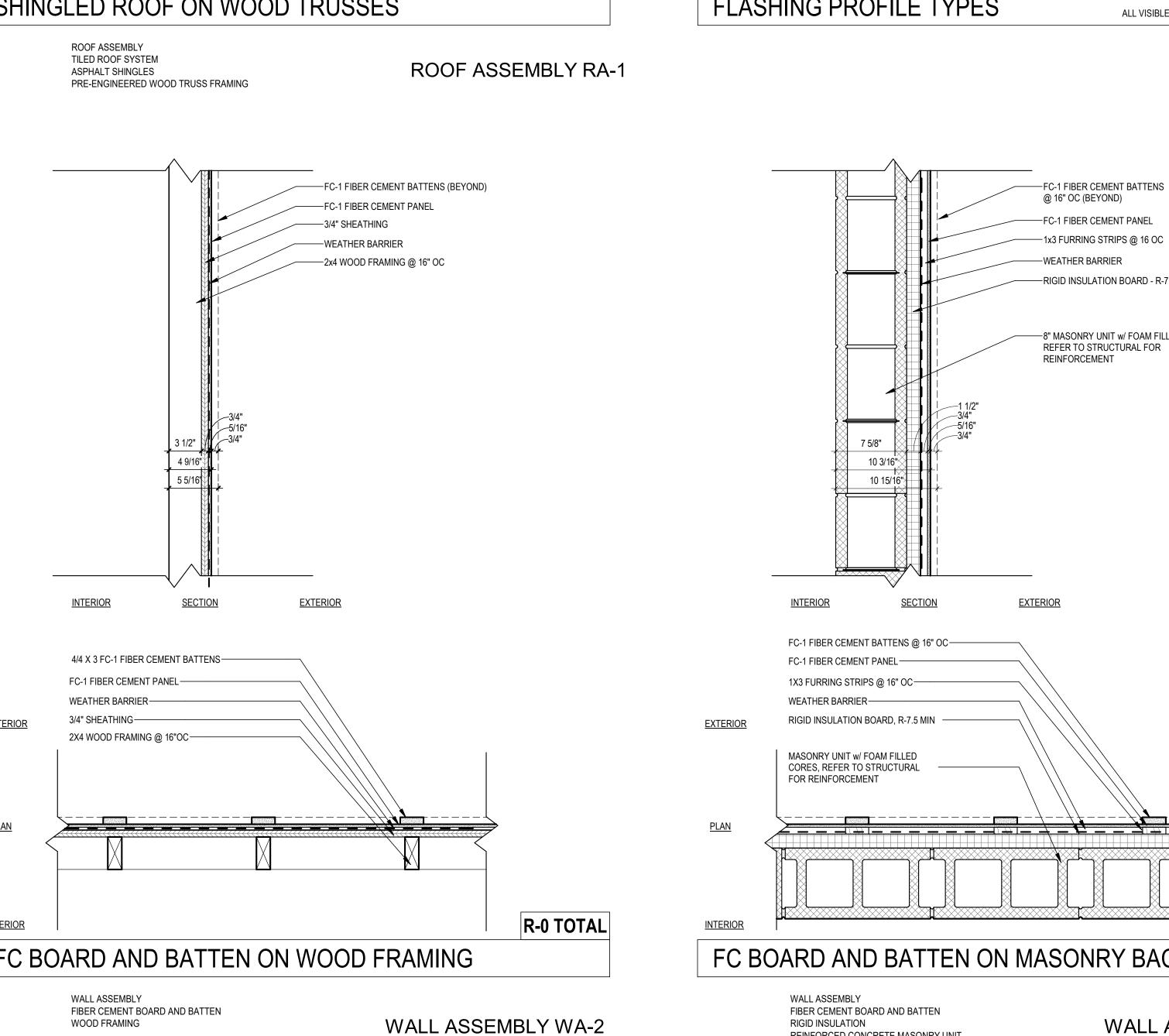


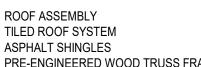
	GENERAL NOTES - ELEVATIONS					
5 A-302 — — — <u>ROOF</u> 115'-0"	<ol> <li>ALL PENETRATIONS SHALL BE SEALED WITH APPROPRIATE MATERIAL</li> <li>ALL EXPOSED METAL ELEMENTS TO BE PRE-FINISHED; COLOR AS SELECTED BY ARCHITECT</li> <li>REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION ON FINISHES &amp; INSTALLATION REQUIREMENTS</li> </ol>					
	(FC) FIBER CEMENT TRIM SIZE LEGEND	AF		-ADVISO		
4 A-302	TRIM TAGS LOCATED AT BOTTOM RIGHT CORNER OF TRIM BOARDS ON ELEVATIONS  TAG (NOMINAL ACTUAL WIDTH) WIDTH 3 2.5" 6 5.5"					
2 A-302	0       5.5         8       7.25"         ALL TRIM TO BE 4/4 (0.75") THICK UNLESS NOTED OTHERWISE					
$\frac{1}{2} - \frac{F^{IRST}F^{LOOR}}{100'-0''} + \frac{1}{2}$						
2 S-501						
WEATHER VANE		2024/11/22				
ARCHITECTURAL ASPHALT SHINGLES						
ROOF 115-0"		ISSUED FOR: BID SET				
5" SQ. P.F. ALUMINUM GUTTER AND DOWNSPOUT		ISSUEL				
FC-2 TRIM						
FC-1 BOARD AND BATTEN SIDING FC-1 TRIM BEYOND ALUMINUM DOWNSPOUT PRECAST CONC. SPLASHBLOCK <u>FIRST FLOOR</u> 100'-0" PNT-4						
WEATHER VANE						
VENTED CUPOLA VENT; REF: PLUMBING						
RELIEF HOOD; REF: MECHANICAL, PROVIDE PRE-FABRICATED CURB AND ROOF CRICKET						SECTIONS
FC-1 BOARD AND BATTEN SIDING FC-2 TRIM						LDING
5" SQ. P.F. ALUMINUM GUTTER AND DOWNSPOUT			HP			d Buii
<u> </u>			SNWC	111		<b>JS AN</b>
FC-1 TRIM FC-1 BOARD AND BATTEN SIDING			ER TC	LLAG	48187	'ATION
PRECAST CONC. SPLASHBLOCK		DM	HART		anton, MI	ELEV
PNT-4		PROJECT NUMBER 0133-24-0020	CANTON CHARTER TOWNSHIP	CHERRY HILL VILLAGE	Cherry Hill Rd, Canton, MI 48187	EXTERIOR ELEVATIONS AND BUILDING
		PRO		خ -2	•	
	<u> </u>		H			









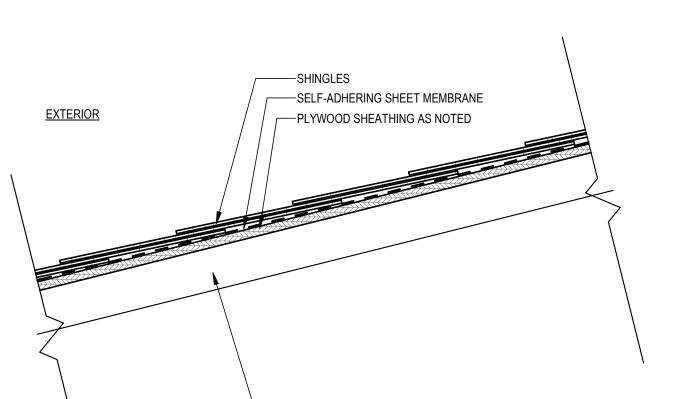


**INTERIOR** 

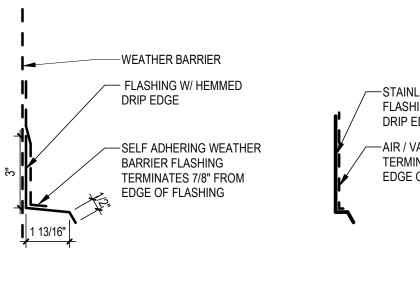
EXTERIOR

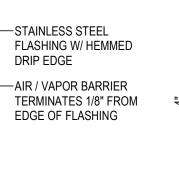
LONGITUDINAL (WITH SLOPE) SECTION

PRE-ENGINEERED WOOD TRUSS FRAMING



FLASHING TYPE "F-3"

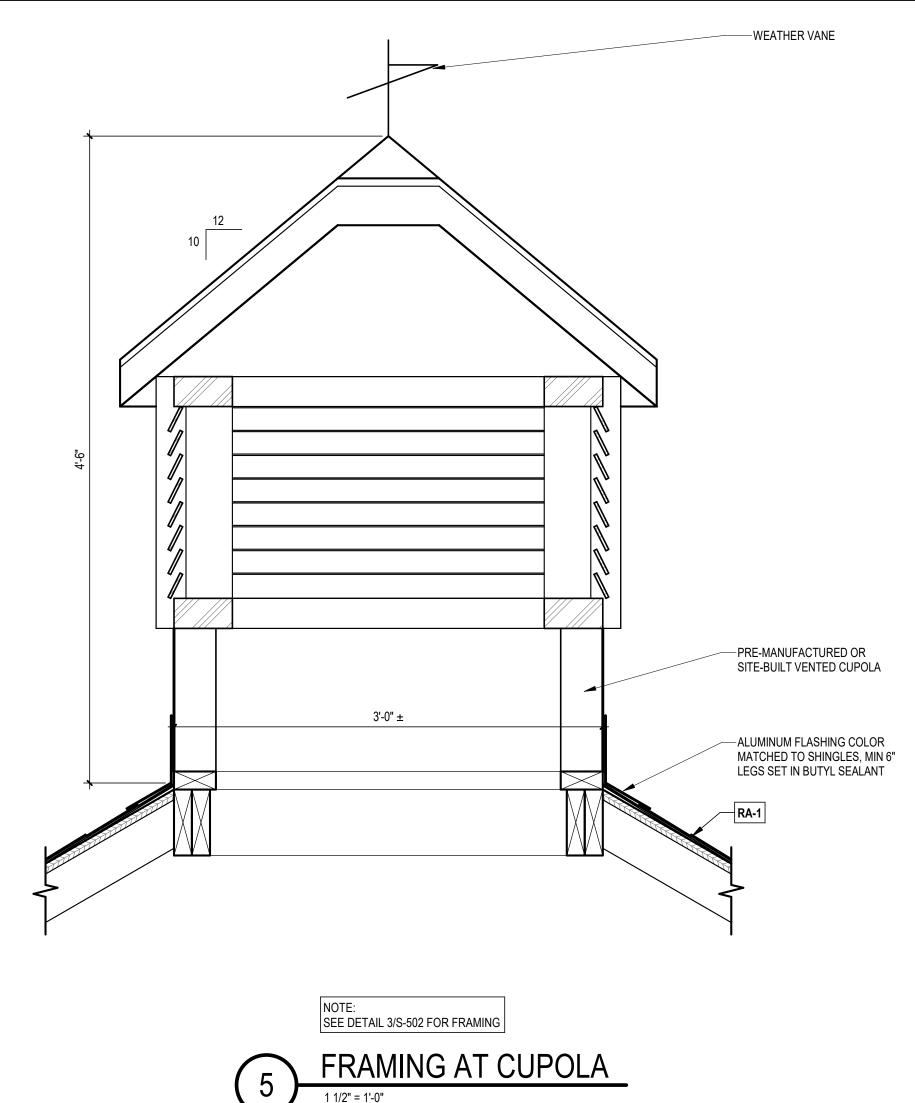


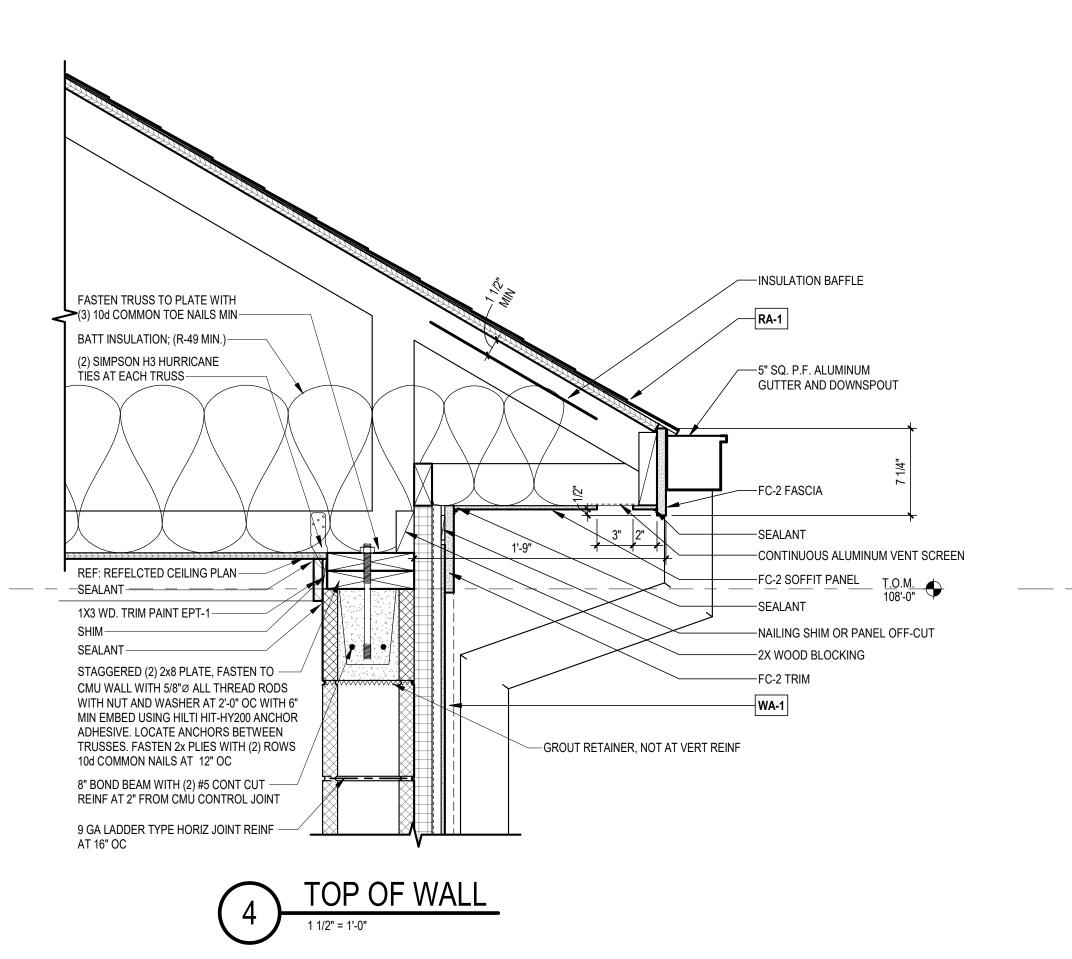


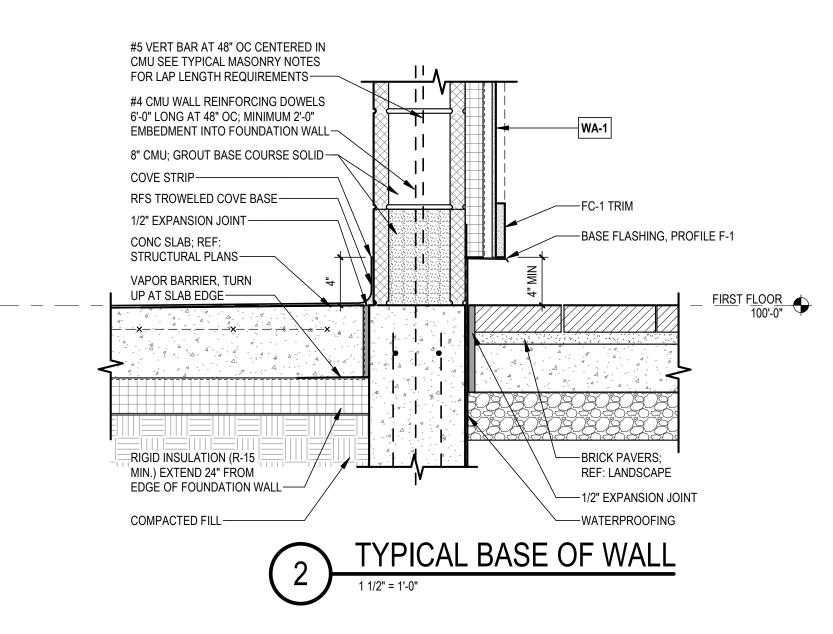
FLASHING TYPE "F-2"

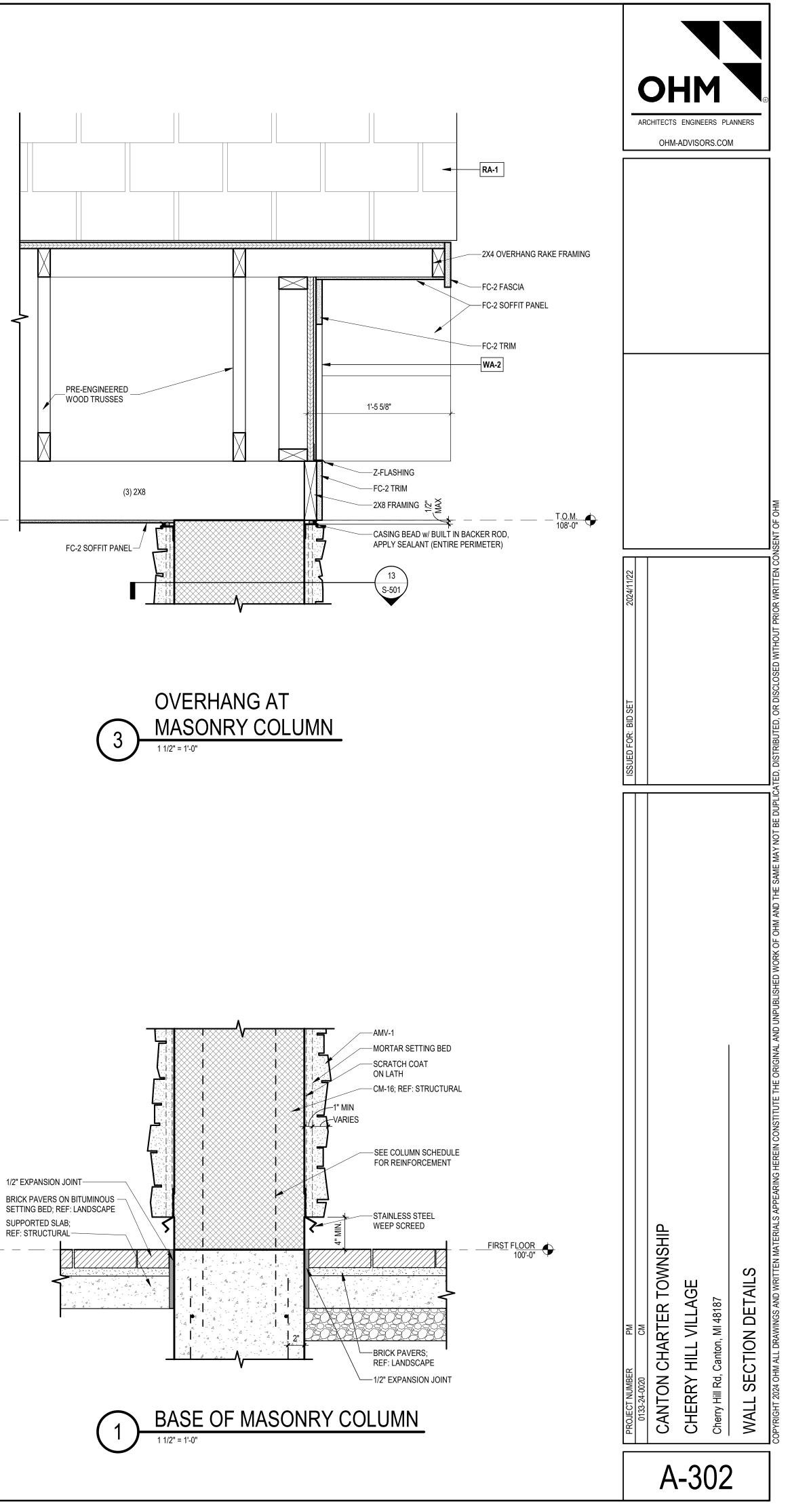
	GENERAL NOTES - PARTITIONS			
	<ol> <li>USE PARTITION TYPE 'M8' UNO</li> <li>FOR CLARITY, PARTITION TYPES DO NOT INDICATE BASE AND FLOOR FINISHES. REFER TO ROOM FINISH SCHEDULE.</li> <li>APPLY A CONTINUOUS BEAD OF ACOUSTICAL SEALANT AROUND ALL ELECTRICAL WALL BOXES</li> </ol>	_		
	<ol> <li>APPLY A CONTINUOUS BEAD OF ACOUSTICAL SEALANT AROUND ALL ELECTRICAL WALL BOXES</li> <li>FOR NON-FIRE-RATED PARTITIONS, APPLY ACOUSTICAL SEALANT AROUND PENETRATIONS ABOVE THE CEILING IN FULL-HEIGHT PARTITIONS, UNO</li> </ol>		HM	
			ects engineers DHM-ADVISORS.(	
STAINLESS STEEL				
FLASHING W/ HEMMED DRIP EDGE				
AIR / VAPOR BARRIER TERMINATES 3/4" FROM EDGE OF FLASHING				
3 5/16"				
BASE FLASHING TYPE "F-1"				
/ISIBLE EDGES OF FLASHING TO BE FINISHED		2024/11/22		
TENS		ISSUED FOR: BID SET		
EL		ISSUED F		
16 OC				
D - R-7.5 MIN.				
M FILLED CORES, FOR				
				1
			L	S
				TION
				ARTI
			VILL/ MI4818	AND F
R-7.5 c.i. <u>R-5.7 cores</u>			CAN LUN UNARTER LUWINSHIP CHERRY HILL VILLAGE Cherry Hill Rd Canton MI 48187	ASSEMBLIES AND PARTITIONS
R-13.2 TOTAL		PROJECT NUMBER 0133-24-0020	ERRY Hill Rd	EMBI
BACKUP		PROJE 013	CAL	ASS
L ASSEMBLY WA-1			<u>مر ۷</u>	1
			A-30	

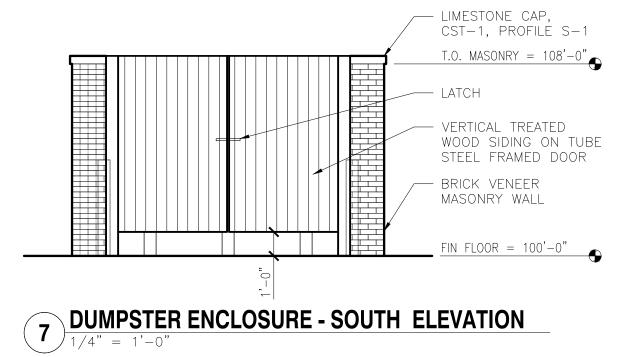




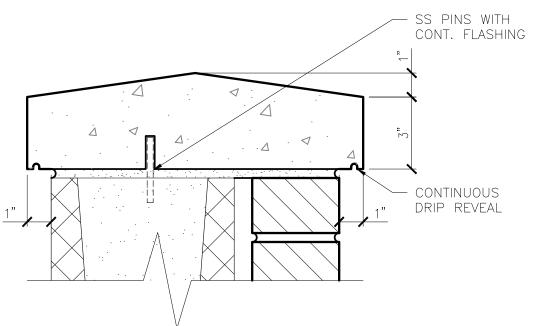




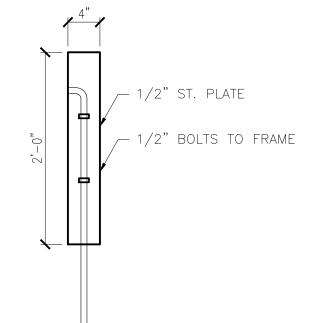




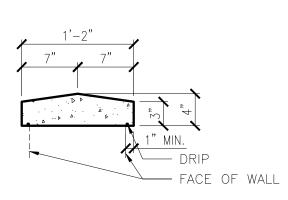




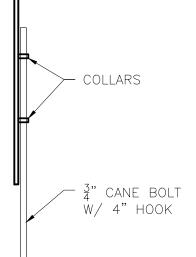
# **3** $\frac{\text{DETAIL AT DOOR CANE BOLTS}}{3" = 1'-0"}$

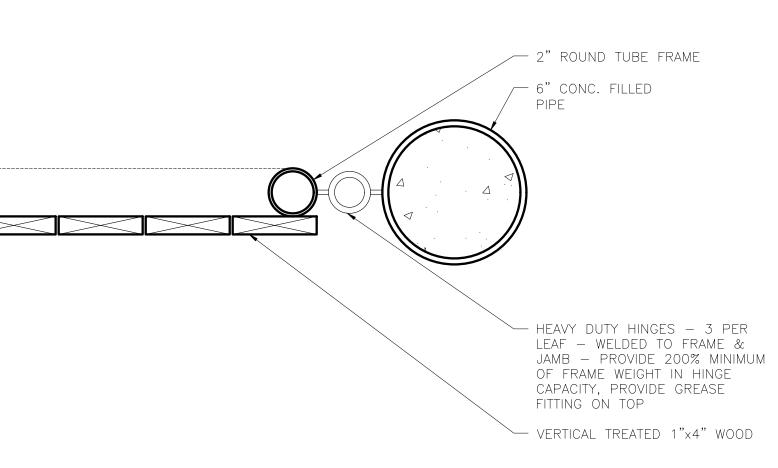


 $(4) \frac{\text{DETAIL AT DOOR HINGES}}{1" = 1'-0"}$ 



STONE PROFILE TYPE "S-1"





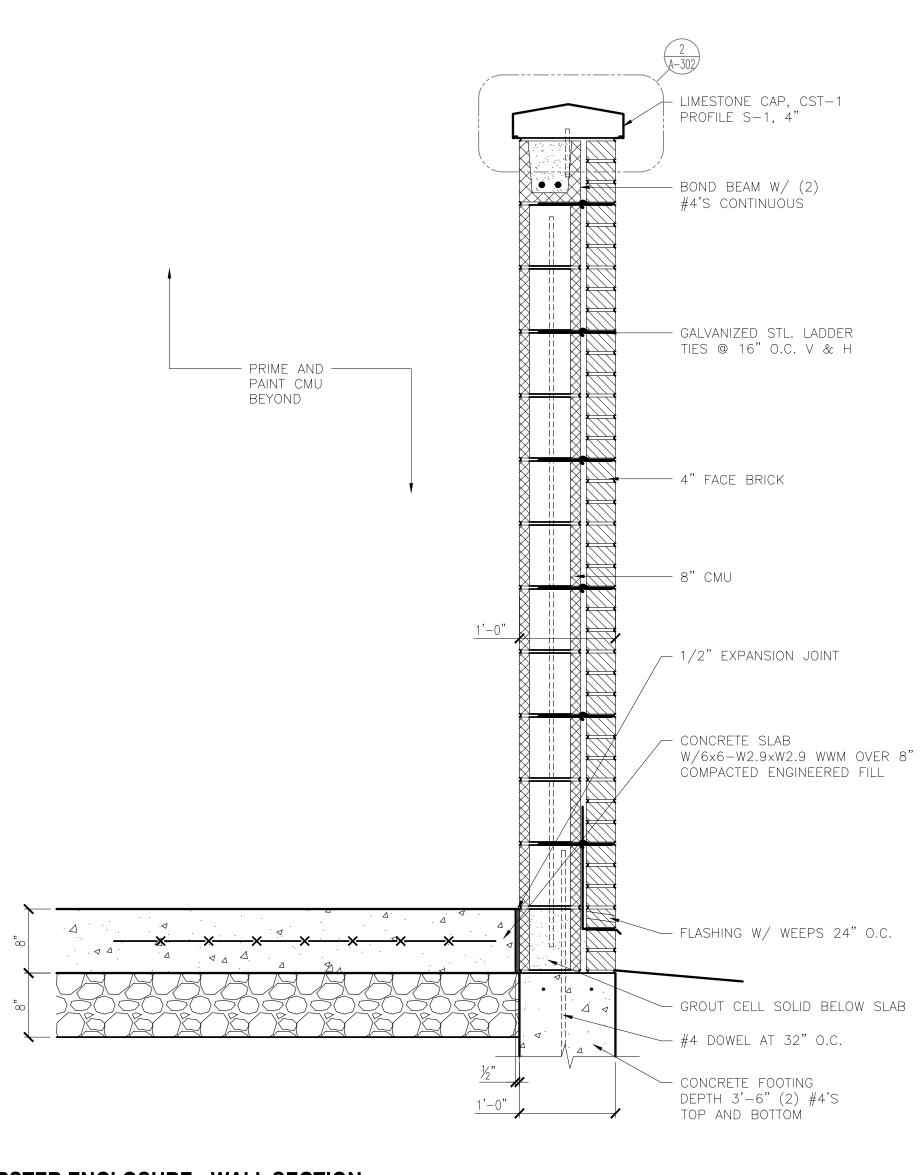
## **6 DUMPSTER ENCLOSURE - EAST ELEVATION** $\frac{1}{4"} = 1'-0"$



 $- \frac{\text{FIN FLOOR} = 100' - 0''}{\odot}$ 

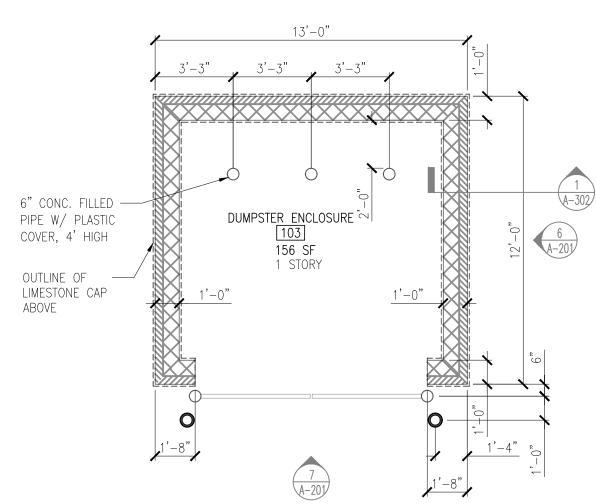
OUTLINE OF \_\_\_\_\_/ LIMESTONE CAP ABOVE





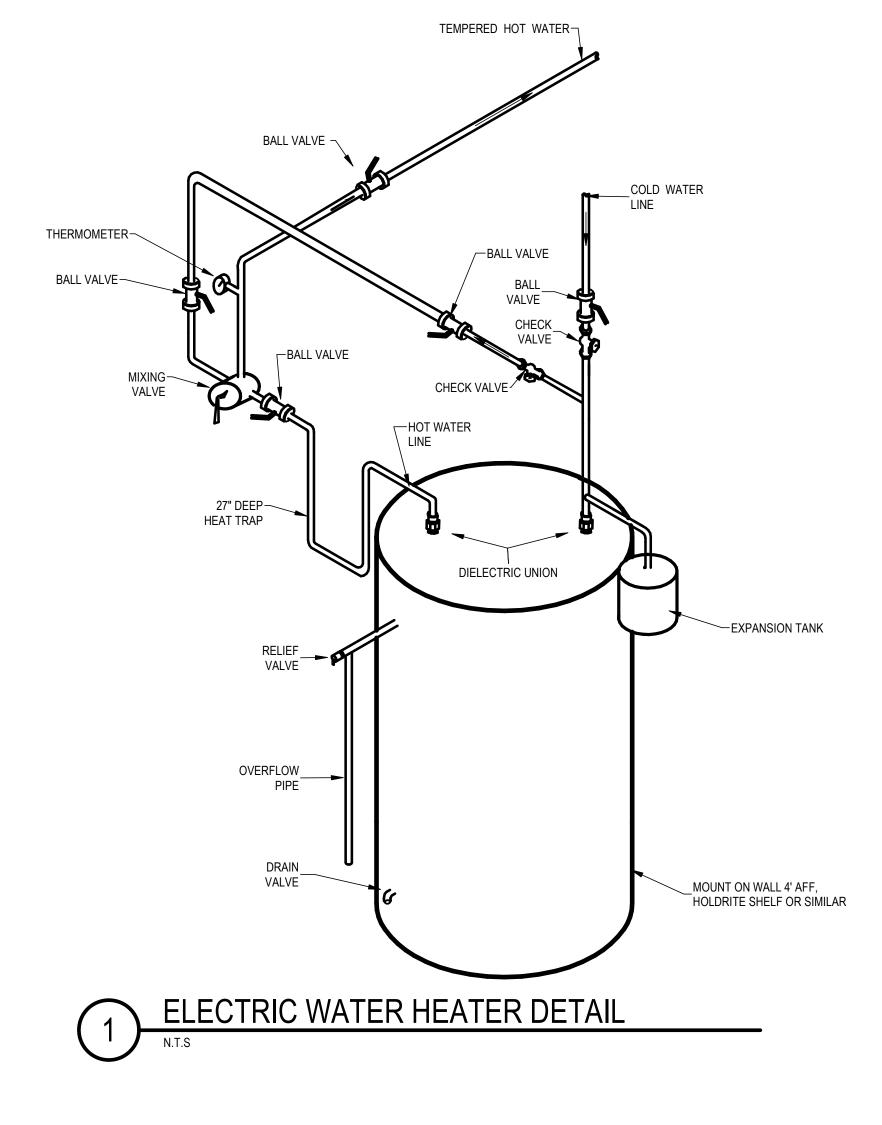


# **3** DUMPSTER ENCLOSURE FLOOR PLAN 1/4" = 1'-0"



PROJECT NUMBER PM	ISSUED FOR: BID SET	2024/11/22	
0133-24-0020 CM	REVISION DESCRIPTION	DATE	
CANTON CHARTER TOWNSHIP			
CHERRY HILL VILLAGE PHASE 1			DVISOR
CANTON TOWNSHIP, MICHIGAN			
DUMPSTER ENCLOSURE			

			PI	UMBING FIXTURE	SCHEDULE					<u> </u>
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	TRIM	REMARKS	CW	HW	WASTE	VENT	ADA
WC-1	WALL MOUNTED WATER CLOSET	KOHLER	KINGSTON K-84325	LUSTRA K-4670-SC SEAT, SLOAN ROYAL 110 ESS FLUSH VALVE ZURN Z1202-N4 VERTICAL DISCHARGE CARRIER	HARD WIRED FLUSH VALVE	1"		3"	2"	Y
L-1	WALL HUNG VITREOUS CHINA LAVATORY	KOHLER	KINGSTON K-2007	FAUCET- KOHLER KUMIN K-103K37- SANA SENSORED, HARD WIRED - K13480	MIXING VALVE WATTS MMV-M1, P-TRAP PROTECTION TRUBRO LAV GUARD 2, SELECT CARRIER FOR APPLICATION	1/2"	1/2"	1-1/2"	1-1/2"	Y
S-1	24X24 FLOOR MOUNTED MOP SINK	MUSTEE	63M	FAUCET - CHICAGO FAUCETS 835-369CP WALL GUARDS - 67.24C BUMPER GUARDS - 36.403 HOSE AND HANGER - 65.700 MOP HANGER - 65.600	REMOVABLE STAINLESS STEEL STRAINER, MOUNT FAUCET 36" AFF	1/2"	1/2"	1-1/2"	1-1/2"	
DF-1	BI-LEVEL EXTERIOR DRINKING FOUNTAIN WITH BOTTLE FILLER	ELKAY	VRCTLDDMWSK	STAINLESS STEEL, SURFACE WALL MOUNTED, EWF3000 FILTER, 98324C CANE APRON	SELECT CARRIER FOR APPLICATION.	1/2"		1-1/2"	1-1/2"	Y
FD-1	FLOOR DRAIN, CAST IRON BODY W/NICKEL BRONZE FINISH, ADJUSTABLE COLLAR	ZURN	Z415-BZ1		VERIFY SETTING BEFORE CONCRETE SETS. PROVIDE WITH SURE SEAL TRAP SEAL.			3"		
FCO-1	FLOOR CLEANOUT, CAST IRON BODY, EPOXY COATED, REMOVABLE, ADJUSTABLE	ZURN	Z1400	BRASS PLUG, 8" ROUND NEOPRENE GASKET				3"		
WHA-1	WATER HAMMER ARRESTOR	SOUIX CHIEF	653-B							
WHA-2	WATER HAMMER ARRESTOR	SOUIX CHIEF	652-A							
WH-1	ELECTRIC WATER HEATER, 20 GAL, 3kW	LOCHINVAR	JUNIOR JET-20 SCF	120V, 1φ, 60 hz		3/4"	3/4"	3/4"		





PIPE HANGER SCHEDULE						PLUM	BING SYMBOLS	LEGEN	C						
		1		-HANGER ROD (S	EE	PIPING	NEW		EXISTING	DEMOLISH					
@ SUPF	METAL SLE PORT 10" LO		BPACING (	HIGH DI COVER INSULA SIZES 2	ENSITY PIPE NG OR RIGID TION FOR PIPE " OR LARGER. HANGER ROD	DOMESTIC HO HOT WATER O ROOF OVERF ROOF DRAIN SANITARY VE	D AIR G—6"ø CA		G						
(NOMINAL) 1 1/2"	STEEL 5	CAST IRON	V COPPER	R PVC/ABS	SIZE 3/8"	SANITARY WA	ASTE		₩O &_6"ø ₩		Θ				
3/4"	6	-	6	4	3/8"	VALVES		PIPE FIT	TINGS	PIPE FIT	TINGS	-			
1"	7		6	4	3/8"		3-WAY VALVE	<u> </u>	HOSE BIB		AIR CHAMBER				
1 1/4"	8	-	6	4	3/8"			•	CONNECT TO EXISTING		AIR ELIMINATOR				OLS
1 1/2"	9	5	10	4	3/8"	-6-	BALL VALVE		ELBOW DOWN		AIR SEPARATOR		∣≞		
2"	10	5	10	4	3/8"	-10-	BUTTERFLY VALVE						OWNSHIP		SYMB(
2 1/2" 3"	10 10	- 5	10 10	4	1/2" 1/2"		CHECK VALVE		ELBOW UP		AUTOMATIC AIR VENT				
3 4"	10	5	10	4	1/2"				TEE UP		COMPOUND GAUGE			С Ш	AND
5"	10	5	10		1/2"		CONTROL VALVE		- TEE DOWN		PRESSURE GAUGE			-LA 48187	
6"	10	5	10	-	1/2"		GATE VALVE	<b>—-+</b> ©	CLEAN OUT	-0-	SHOCK ABSORBER	M	RTE	VIL MI 48	μŬ
PIPE INS	ULAI	LION SCH	HEDUL	E			GLOBE VALVE RELIEF VALVE		CONCENTRIC REDUCER     ECCENTRIC REDUCER				HAR	HILL V Canton, I	N N
PIPE SYSTEM	1	THICKNESS	TYPE	REMARKS						OTHERS	SYMBOLS	- BER		<u>ب</u>	
DOMESTIC HOT WATE		1" TO 1 1/2" SEE NOTE 1	FIBERGLASS		V/PVC FITTING COVERS	- <u>BFP</u> - - <u>PRV</u> -	BACK FLOW PREVENTER PRESSURE REDUCING VALVE	 	END CAP UNION	(XX-X)	PLUMBING FIXTURE / EQUIPMENT INDICATOR	DT NUM	UTO	Hill Rd	E E
DOMESTIC COLD WAT	TER	1"	FIBERGLASS	SELF SEALING V	V/PVC FITTING COVERS		WATER REGULATOR VALVE		STRAINER	FD	FLOOR DRAIN	ROJE( 0133	AN	CHE	
HOT WATER RECIRCL	JLATING	1" TO 1 1/2" SEE NOTE 1	FIBERGLASS	SELF SEALING V	V/PVC FITTING COVERS		GAS METER		FLANGED CONNECTION		PIPE BREAK LINE	ЪЧ	O	0 ō	
ROOF & OVERFLOW D	DRAINS	1"	FIBERGLASS	SELF SEALING V	V/PVC FITTING COVERS		WATER METER		- EXPANSION JOINT	)					
		AN 1 1/2", INSULATIO NESS SHALL BE 1 1/:		HALL BE 1", FOR P	Ping 1 1/2" and					2	PIPE END		Ρ	-001	1

## GENERAL NOTES - PLUMBING

. ALL PLUMBING EQUIPMENT AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2021 STATE OF MICHIGAN PLUMBING CODE AND THE 2021

THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A PLUMBING PERMIT AND INSPECTIONS. A FINAL INSPECTION CERTIFICATE SHALL BE SUBMITTED BEFORE FINAL PAYMENT WILL BE ISSUED. DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND SUGGESTED ROUTES. IT IS NOT THE INTENTION OF THE DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.

THE PLUMBING CONTRACTOR SHALL FURNISH SHOP DRAWINGS ON FIXTURES, APPURTENANCES AND MATERIALS THAT THEY INTEND TO FURNISH, FOR APPROVAL TO OWNER.

. PROTECT ALL EQUIPMENT AND FIXTURES STORED OR SET IN PLACE ON JOB. 6. ALL VENT LINES SHALL BE INSTALLED VERTICAL OR SLOPED UP TO VTR.

. ALL PIPING TO BE CONCEALED UNLESS OTHERWISE NOTED ON PLANS. B. EACH RISER SHALL BE VALVED IN AN ACCESSIBLE LOCATION.

9. EACH PLUMBING FIXTURE SHALL BE PROVIDED WITH AN ACCESSIBLE SHUT OFF VALVE ON SUPPLY LINES.

10. PROVIDE FIRESTOPPING AT ALL NEW PENETRATIONS OF FIRE RATED FLOOR AND WALL ASSEMBLIES. 11. A BOUND MANUAL SHALL BE SUBMITTED UPON COMPLETION WITH MAINTENANCE INSTRUCTIONS, PARTS LISTS, AND MANUFACTURER'S WARRANTIES.

ALSO A WARRANTY FROM THE PLUMBING CONTRACTOR, ALONG WITH RECORD DRAWINGS SHALL BE SUBMITTED AT THIS TIME.

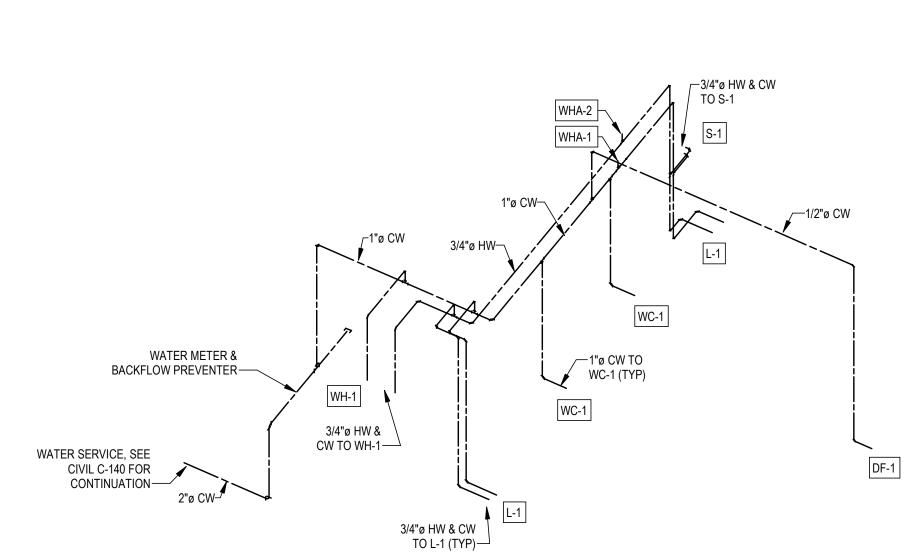
### PLUMBING ABBREVIATIONS

### AAV AIR ADMITTANCE VALVE AFF ABOVE FINISHED FLOOR BACK FLOW PREVENTER BFP С CA COMPRESSED AIR CW DOMESTIC COLD WATER D DF DRINKING FOUNTAIN DN DOWN DW DISHWASHER DWV DRAIN WASTE & VENT ELECTRIC WATER COOLER EWC FCO FLOOR CLEAN OUT FD FLOOR DRAIN G NATURAL GAS Н HOSE BIB HB HEATING VENTILATING & AIR HVAC CONDITIONING DOMESTIC HOT WATER HOT WATER CIRCULATION HWC HOT WATER CIRCULATION PL HWCP

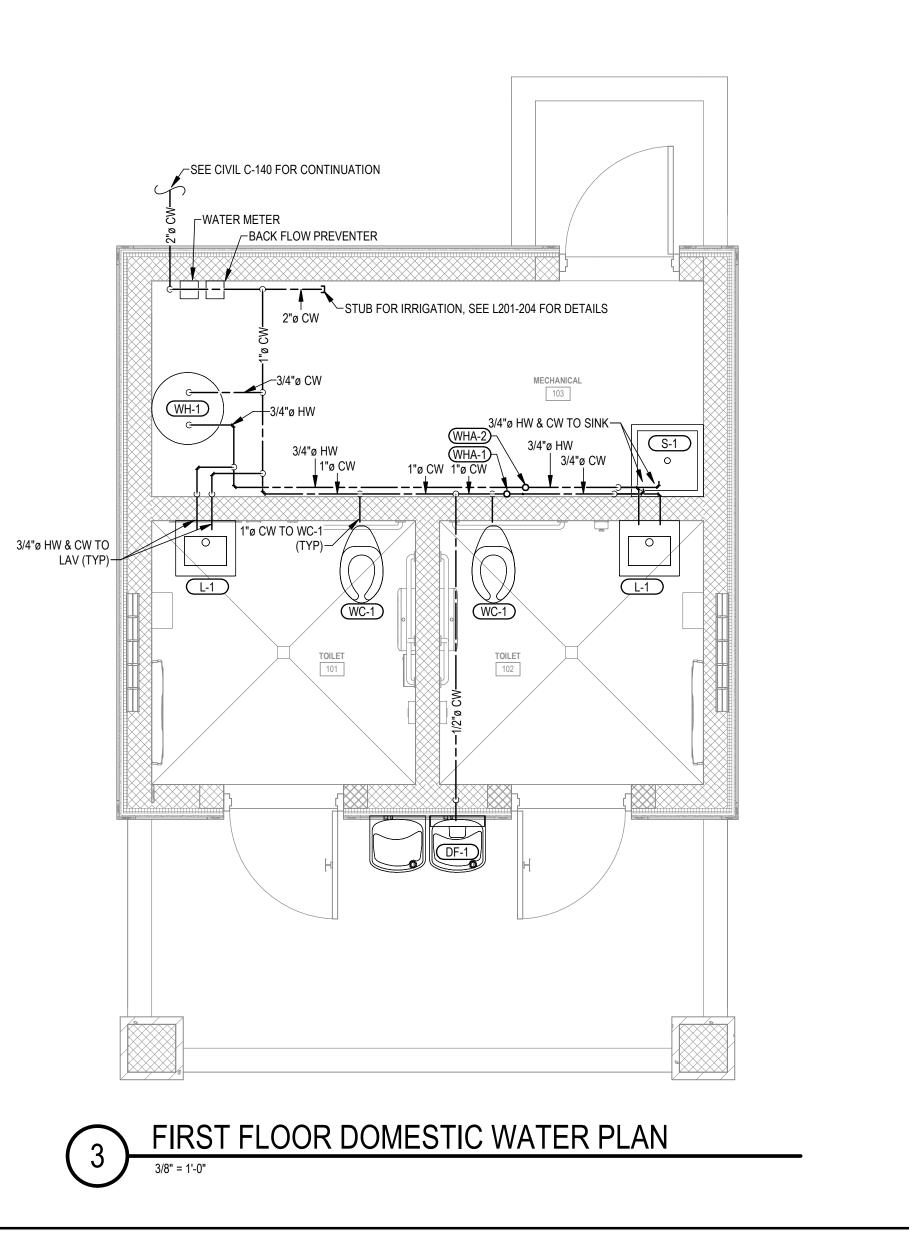
## PLUMBING ABBREVIATIONS

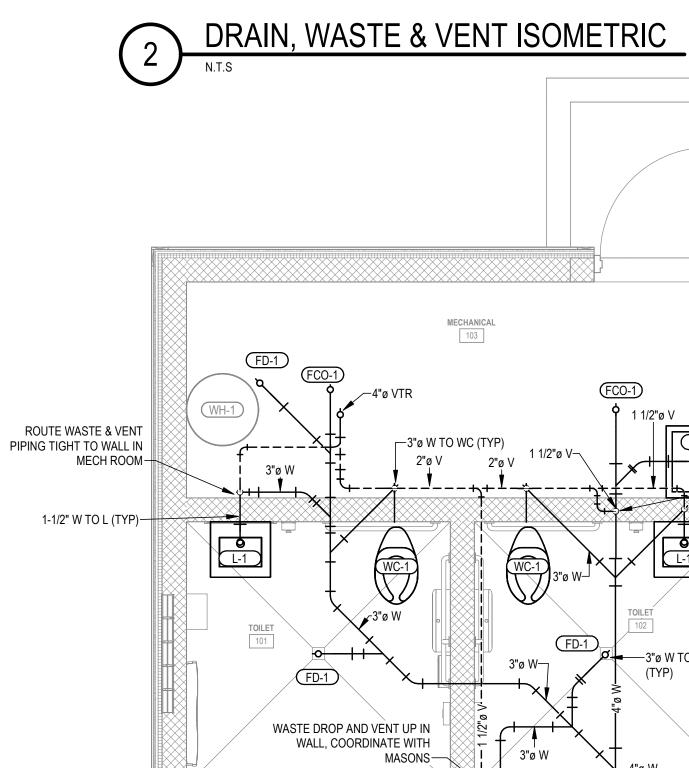
	L	LAVATORY		
	М			
	MH	MANHOLE	_	
	MISC	MISCELLANEOUS		
	MTD	MOUNTED		
	0			-
	0			-
	OD	OVERFLOW DRAIN	53	
	Р		2024/11/22	
	P PRV	PRESSURE REDUCING VALVE	024	
	PRV	PRESSURE REDUCING VALVE		
	R			
	RD	ROOF DRAIN		
	ΝD	ROOF DRAIN		
	S			
	S	SINK		
	SH	SHOWER		
	OIT	SHOWER		
	т			
	, TYP	TYPICAL	9	
	U			
	U	URINAL	ISSUED FOR: BID SET	
		······	ns	
	V		<u> </u>	
	V	SANITARY VENT		_
	VRT	VENT THROUGH ROOF		
	W			
	W	SANITARY WASTE		
	WC	WATER CLOSET		
JMP	WCO	WALL CLEAN OUT		
	WH	WATER HEATER		
	WHA	WATER HAMMER ARRESTOR		





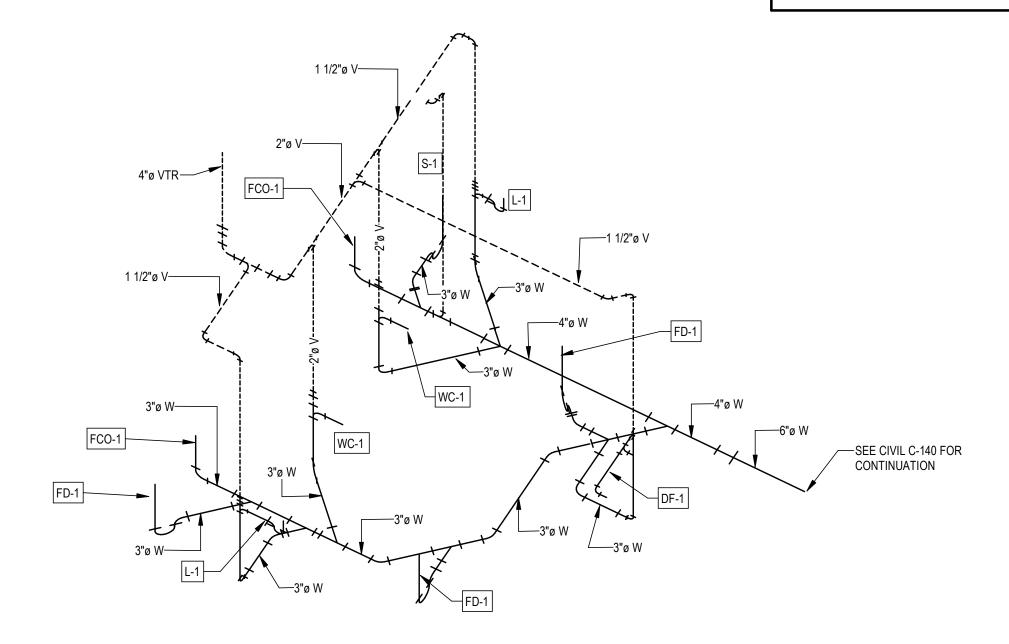






3/8" = 1'-0"





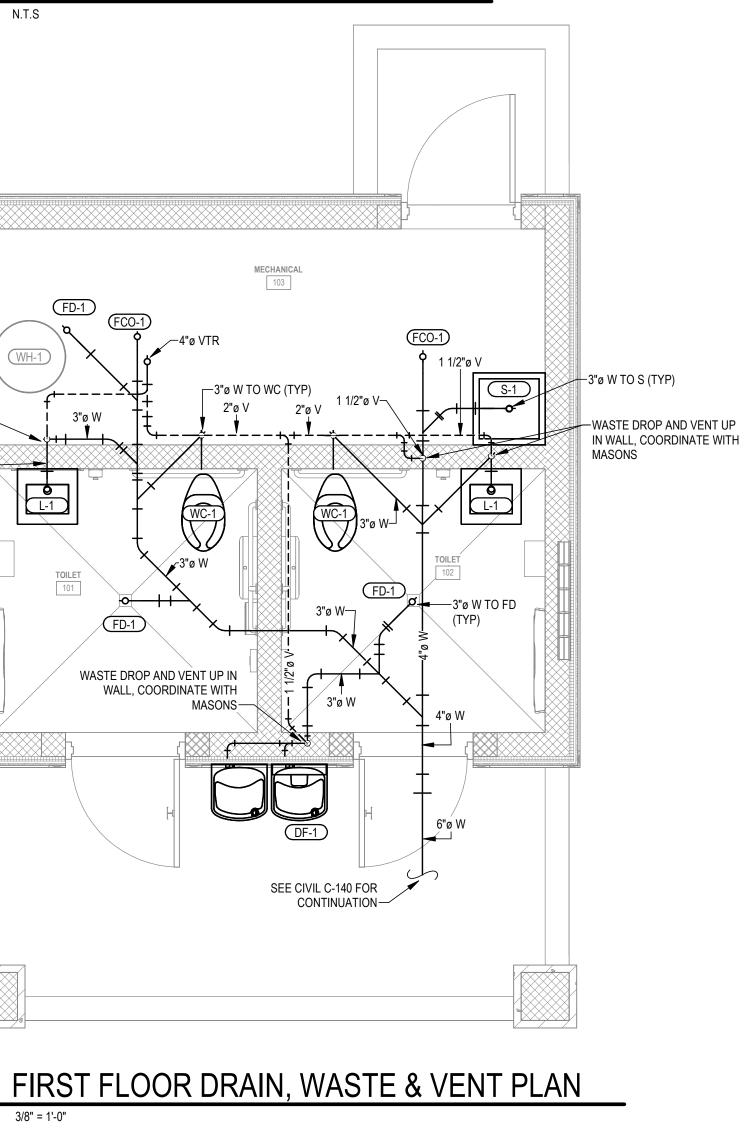
## **GENERAL NOTES - DOMESTIC PLUMBING**

THE DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF CONNECTION TO EXISTING SYSTEMS AND SUGGEST PROPER ROUTES TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, AND PRESERVE CLEARANCES. IT SHALL BE THE WORK OF THE CONTRACTOR TO MAKE THE INSTALLATION CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER OBSTRUCTION OR COST TO THE OWNER. COORDINATE AND SCHEDULE ALL CONNECTIONS TO EXISTING SYSTEMS AND SYSTEM SHUT-DOWNS

WITH OWNER'S REPRESENTATIVES. . EACH PLUMBING FIXTURE SHALL BE PROVIDED WITH AN ACCESSIBLE SHUT OFF VALVE ON SUPPLY LINES.



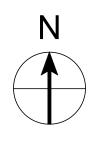




3"ø W

SEE CIVIL C-140 FOR CONTINUATION

FIRST FLOOR PLUMBING PLAN TOWNSHIP ĒR VILL RRY CHEI ()P-101

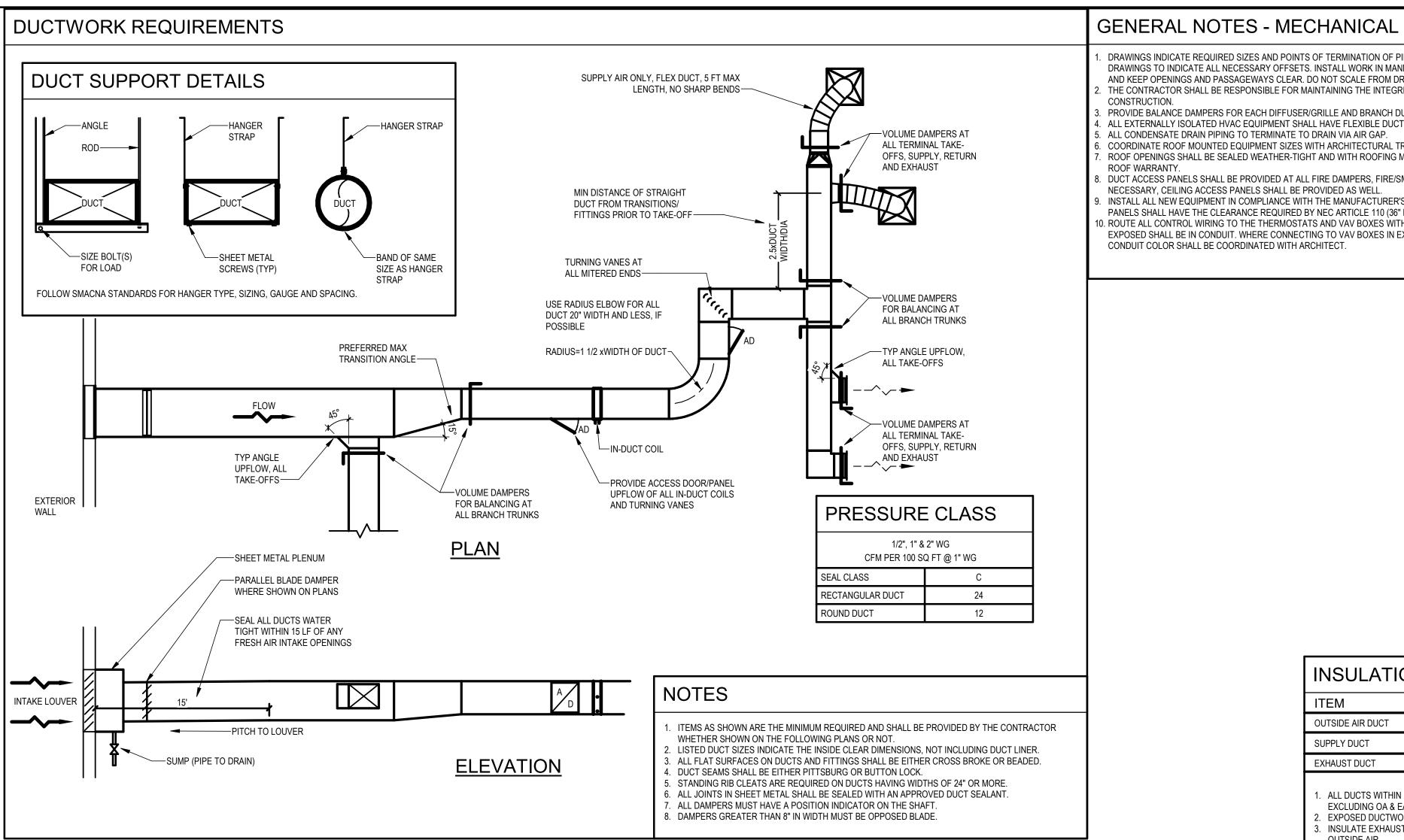


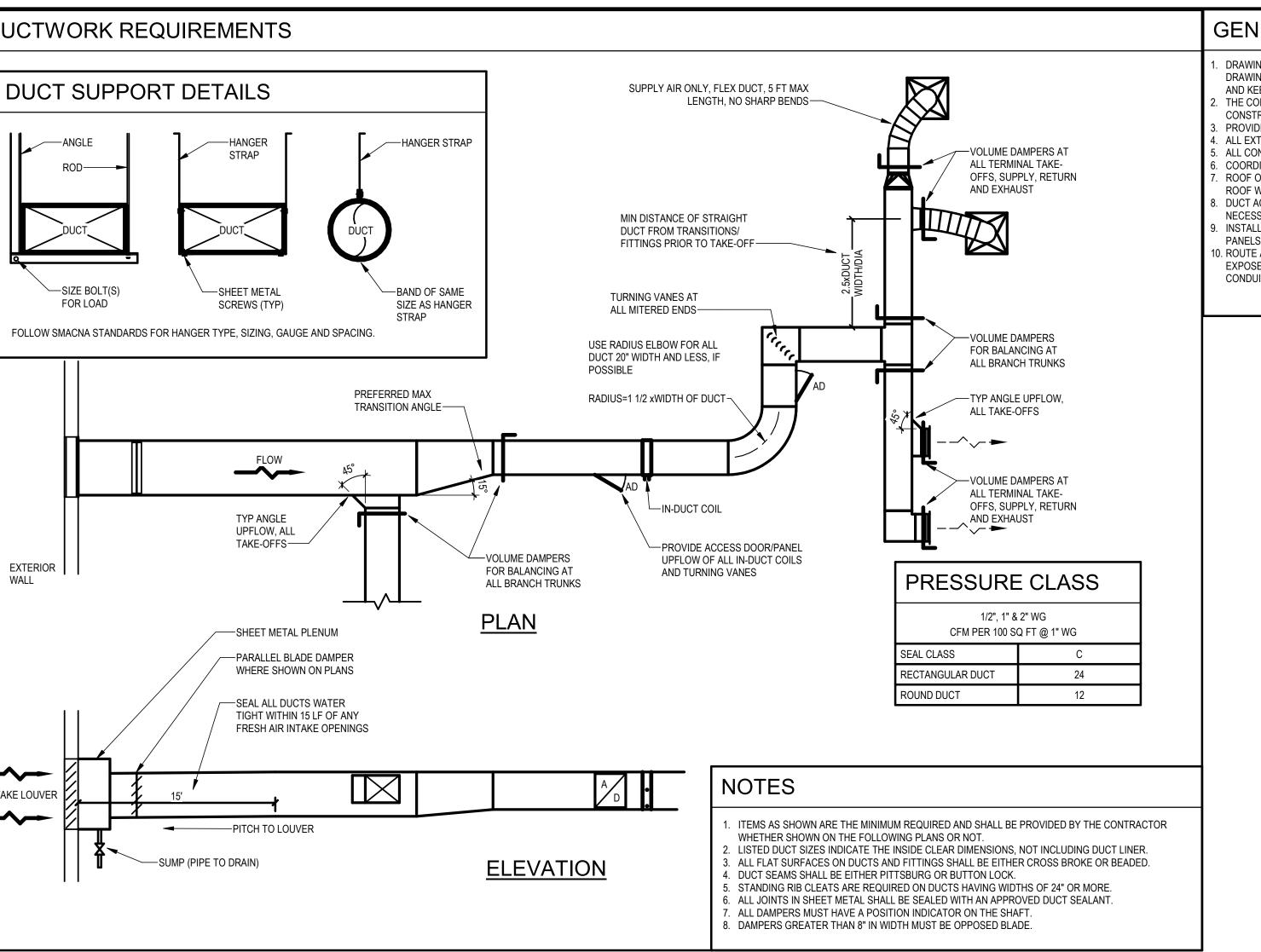
### MECHANICAL ABBREVIATIONS

## MECHANICAL ABBREVIATIONS

Ą			
4	AIR	1	
¬ AAV	AUTOMATIC AIR VENT	IN	IN
		IIN	IIN
AD	ACCESS DOOR/PANEL		
<b>\FF</b>	ABOVE FINISH FLOOR	K	
AHU	AIR HANDLING UNIT	KH	Kľ
APD	AIR PRESSURE DROP		
AS	AIR SEPARATOR	L	
		L	LC
3		LAT	LE
3			
	BOILER	LDB	LE
3DD	BACK DRAFT DAMPER	LF	LI
BFP	BACK FLOW PREVENTER	LPS	LC
		LWB	LE
2		LWT	LE
CFM	CUBIC FEET PER MINUTE		
CG	CEILING GRID	М	
CHWR	CHILLED WATER RETURN	MAX	MA
CHWS	CHILLED WATER SUPPLY	MBH	TH
CND	STEAM CONDENSATE	MCA	MI
COND	CONDENSING UNIT	MIN	MI
CONV	CONVECTOR	MISC	MI
CR	CONDENSATE RETURN	MTD	M
CUH	CABINET UNIT HEATER	MUA	MA
C		0	
ЭB	DRY BULB	OA	OL
dia Ø	DIAMETER	-	
DN DN	DOWN	Р	
JN	DOWN		
		Р	PL
Ē		PH 🛛	PF
ΞA	EXHAUST AIR	PRV	PF
EAT	ENTERING AIR TEMPERATURE	PSI	PC
EDB	ENTERING DRY BULB	PSIG	PC
		F310	GA
EDH	ELECTRIC DUCT HEATER		Gr
ΞF	EXHAUST FAN	_	
ESP	EXTERNAL STATIC PRESSURE	R	
ET	EXPANSION TANK	R	SL
EWB	ENTERING WET BULB	RA	RE
EWT	ENTERING WATER	RAD	RA
	TEMPERATURE	RD	R
-VOT			
EXST	EXISTING	RF	RE
		RH	GF
=		RPM	RE
-CU	FAN COIL UNIT		
-PM	FEET PER MINUTE	S	
PS	FEET PER SECOND	SA	SL
-T	FOOT / FEET	SC	ST
-TR	FIN TUBE RADIATION	SD	SN
°F	FAHRENHEIT DEGREE	SF	SL
		SP	ST
3		STD	ST
3 3	NATURAL / LP GAS	STM	ST
GA	GAUGE	SWG	SI
GPH	GALLONS PER HOUR	SWR	SI
GPM	GALLONS PER MINUTE		
		Т	
4		TYP	ΤY
-IC	HOT WATER COIL		
-			
HP In a	HORSEPOWER	U	
HPS	HIGH PRESSURE STEAM	UH	UN
HRU	HEAT RECOVERY UNIT		
HTWR	HEATING WATER RETURN	V	
HTWS	HEATING WATER SUPPLY	V	VE
HVAC	HEATING VENTILATING & AIR	VAV	VA
IVAC			
11/	CONDITIONING	VD	VA
ΗX	HEAT EXCHANGER		
		W	
		WH	W

I	
IN	INCH / INCHES
К	
KH	KITCHEN HOOD
L	
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LF LPS	LINEAL FEET LOW PRESSURE STEAM
LPS	LEAVING WET BULB
LWD	LEAVING WATER TEMPERATUR
Μ	
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MIN MISC	MINIMUM MISCELLANEOUS
MTD	MOUNTED
MUA	MAKE-UP AIR UNIT
NIOA	
0	
OA	OUTSIDE AIR
Р	
P	PUMP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
R	
R	SUPPLY REGISTER
RA	RETURN AIR
RA RAD	RETURN AIR RADIANT HEATER
RAD	RADIANT HEATER
RAD RD	RADIANT HEATER ROUND DIFFUSER
RAD RD RF	RADIANT HEATER ROUND DIFFUSER RETURN FAN
RAD RD RF RH RPM	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD
RAD RD RF RH RPM	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE
RAD RD RF RH RPM S SA	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR
RAD RD RF RH RPM	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL
RAD RD RF RH RPM S SA SA SC	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR
RAD RD RF RH RPM S SA SA SC SD	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER
RAD RD RF RH RPM S SA SA SC SD SF	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN
RAD RD RF RH RPM S SA SC SD SC SD SF SP STD STM	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM
RAD RD RF RH RPM S SA SA SC SD SC SD SF SP STD STD STM SWG	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE
RAD RD RF RH RPM S SA SC SD SC SD SF SP STD STM	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM
RAD RD RF RH RPM S SA SC SD SC SD SF SP STD STM SWG SWR	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE
RAD RD RF RH RPM S SA SC SD SF SD SF SF STD STM SWG SWR T	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER
RAD RD RF RH RPM S SA SC SD SC SD SF SP STD STM SWG SWR	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE
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RAD RD RF RH RPM S SA SA SC SD SF SD SF STD STM SWG SWR T TYP	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER
RAD RD RF RH RPM S SA SA SC SD SF SD SF STD STM SWG SWR T TYP U UH	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER
RAD RD RF RH RPM S SA SC SD SF SD SF STD STM SWG SWR T TYP U UH V	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER TYPICAL
RAD RD RF RH RPM S SA SC SD SF SD SF SD STD STM SWG SWR T TYP U U UH V V	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER TYPICAL VENT
RAD RD RF RH RPM S SA SC SD SF SD SF STD STM SWG SWR T T TYP U U UH V V V V V V V V V V V	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER 'VPICAL UNIT HEATER
RAD RD RF RH RPM S SA SC SD SF SD SF SD STD STM SWG SWR T TYP U U UH V V	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER TYPICAL VENT
RAD RD RF RH RPM S SA SC SD SF SD SF STD STM SWG SWR T T TYP U U UH V V V V V V V V V V V	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER 'VPICAL UNIT HEATER
RAD RD RF RH RPM S SA SC SD SF SD STD STM SWG SWR T T TYP U U U H V V V V V V V V V V V V V V V V	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER 'VPICAL UNIT HEATER
RAD RD RF RH RPM S SA SC SD SF SD STD STD STM SWG SWR T TYP U U UH V V V V V V V V V V V V V V V V	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER SUPPLY FAN STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER TYPICAL VENT VARIABLE AIR VOLUME VANED DIFFUSER
RAD RD RF RH RPM S SSA SC SD SF SD STD STD STM SWG SWR T TYP U U UH V V V V V V V V V V V V V V V V	RADIANT HEATER ROUND DIFFUSER RETURN FAN GRAVITY RELIEF HOOD REVOLUTIONS PER MINUTE SUPPLY AIR STEAM COIL SMOKE DAMPER STATIC PRESSURE STANDARD STATIC PRESSURE STANDARD STEAM SIDE WALL GRILLE SIDE WALL REGISTER 'VENT VARIABLE AIR VOLUME VANED DIFFUSER WATER HEATER





## HVAC DUCTS

EXHAUST A OUTSIDE RETURN AIF SUPPLY AIF DIFFUS

-

PIPING

NATURA FIN TUBE F

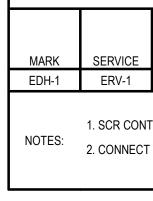
RAL GAS C-6"ø G	O ©−6"ø G		"øG ∈====					AF	Ĺ	nton, I	MECHANICAL N
		$\checkmark$					DM CM	RTER 1	CHERRY HILL VILLAGE	Cherry Hill Rd, Canton, MI 48187	JOTES
AIR 12x12 OA C 12ø	RISE       DROP         EA       Image: Amount of the symptotic strain of the symptotic strangenet strangenet strain of the symptotic strain of the	RISE DROP A 2 120 A	RISE EA		2x12 2x12 YMBOLS TURNING V DUCT WID ROUND DU			CANTON CHARTER TOWNSHIP	AGE	87	MECHANICAL NOTES AND SYMBOLS
C SYMBOLS LEGE				PECT		OLISH					
	<ol> <li>ALL DUCTS WITHIN 2 EXCLUDING OA &amp; EA</li> <li>EXPOSED DUCTWOR</li> <li>INSULATE EXHAUST OUTSIDE AIR.</li> <li>DUCT LINER IS FOR 0</li> </ol>	DUCT. K SHALL BE INSULAT DUCTS WITHIN 10' OF	ED WITH RIGID EXTERIOR OP	) FIBERGLA PENINGS A	ASS DUCT INS	SULATION AND JACKET. DUCTS EXPOSED TO	ISSUED FOR: BID SET				
	OUTSIDE AIR DUCT SUPPLY DUCT EXHAUST DUCT	2" 1 1/2" 2"	FIBERGLAS FIBERGLAS FIBERGLAS	SS TY	PE ASJ PE ASJ PE ASJ						
	INSULATIC ITEM	N SCHE	DULE TYPE	R	EMARKS		2024/11/22				
							11/22				
ALL CONTROL WIRING TO THE THERMOS ED SHALL BE IN CONDUIT. WHERE CONNE IT COLOR SHALL BE COORDINATED WITH	TATS AND VAV BOXES WITH CTING TO VAV BOXES IN EX	N THE SOFFITS AND	WALLS WHERE	VER POSS	IBLE. WIRING	G IN ANY WÁLLS OR					
VARRANTY. CCESS PANELS SHALL BE PROVIDED AT / SARY, CEILING ACCESS PANELS SHALL BE L ALL NEW EQUIPMENT IN COMPLIANCE V S SHALL HAVE THE CLEARANCE REQUIRE	IGHT AND WITH ROOFING MA ALL FIRE DAMPERS, FIRE/SM E PROVIDED AS WELL. /ITH THE MANUFACTURER'S	ATERIALS COMPATIBL OKE DAMPERS, MOTO REQURIED CLEARAN	E WITH SPECI DRIZED DAMPE CES. ALL DISCO	ERS, AND E	UCT SMOKE AND HIGH VC	DETECTORS. WHERE			-ADVISO		
INATE ROOF MOUNTED EQUIPMENT SIZE OPENINGS SHALL BE SEALED WEATHER-T							A 1		<b>ENGINE</b>		NINEDO
	MAINTAINING THE INTEGRIT ER/GRILLE AND BRANCH DUG HALL HAVE FLEXIBLE DUCT ( TO DRAIN VIA AIR GAP.	Y OF ALL EQUIPMEN	T AND MATERI	ALS IN A "N	EW" CONDIT	ION DURING			-11-	1	R

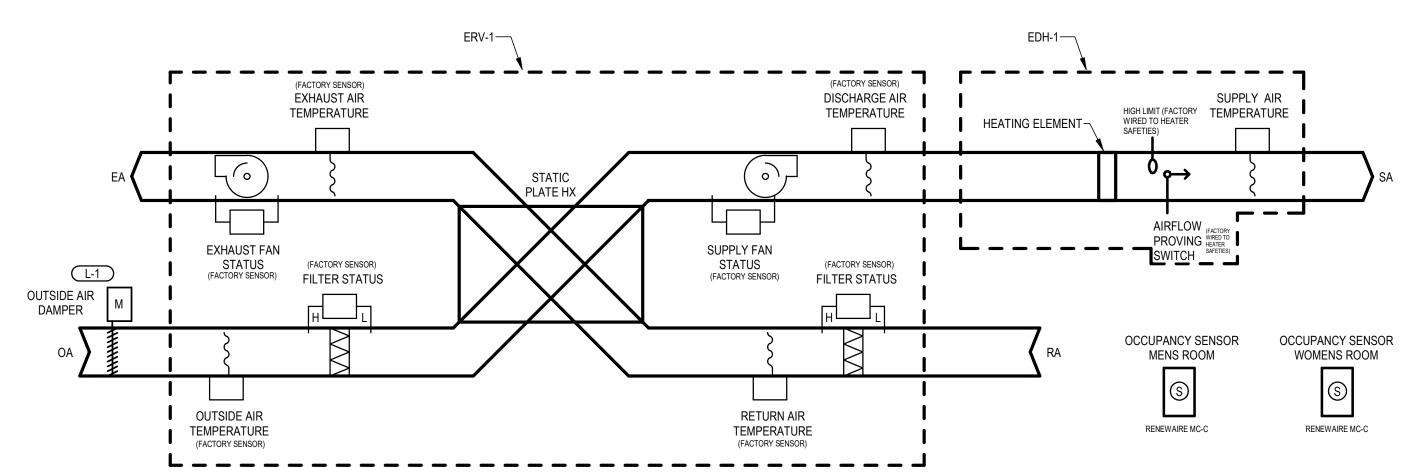
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						EN	ERGY	RECC	VER	Y VEN	ΓΙLΑΤΟ	DR SC	HEDU	LE						
					SUPPLY /					JST AIR		SUPPLY FAN		ł	EXHAUST FAN					
MARK	SERVICE	LOCATION	CFM	SUMMER EAT (° F) (DB/WB)	SUMMER LAT (° F) (DB/WB)	WINTER EAT (°F)	WINTER LAT (°F)	ESP (IN-WG)	CFM	ESP (IN-WG)	WATTAGE	VOLTAGE	PHASE	WATTAGE	VOLTAGE	PHASE	FILTERS	MANUFACTURER	MODEL	NOTES
ERV-1	RESTROOM	103 MECHANICAL	150	90/74	78/67	2.9	56	0.5	150	0.05	70	120	1	70	120	1	MERV 8	RENEWAIRE	EV PREMIUM LH	1,2

1. PROVIDE WITH TWO CEILING OCCUPANCY SENSORS, PART: 131302. NOTES 2. INTERLOCK TO OUTSIDE AIR LOUVER/DAMPER FROM FACTORY CONTROLS.

		GRA	VITY RE	LIEF	HOOD	SCHED	DULE			
			THROAT	SIZE (	INxIN)					
MARK	SERVICE	CFM	VELOCITY (FPM)	THROAT	HOOD	ESP (IN-WG)	MANUFACTURER	MODEL	NOTES	
GRH-1	ERV-1	150	103	16x16	29	0.001	GREENHECK	GRSR-16	1,2	MARK
		-				-		P		EDH-1
NOTES:	1. PROVIDE WITH SL 2. CONNECTED TO EF		URB 12" MINIMUM H	EIGHT AND GI	RAVITY BACKI	DRAFT DAMPER.				NOTES





ENERGY RECOVERY VENTILATOR & ELECTRIC DUCT HEATER SEQUENCE OF OPERATION:

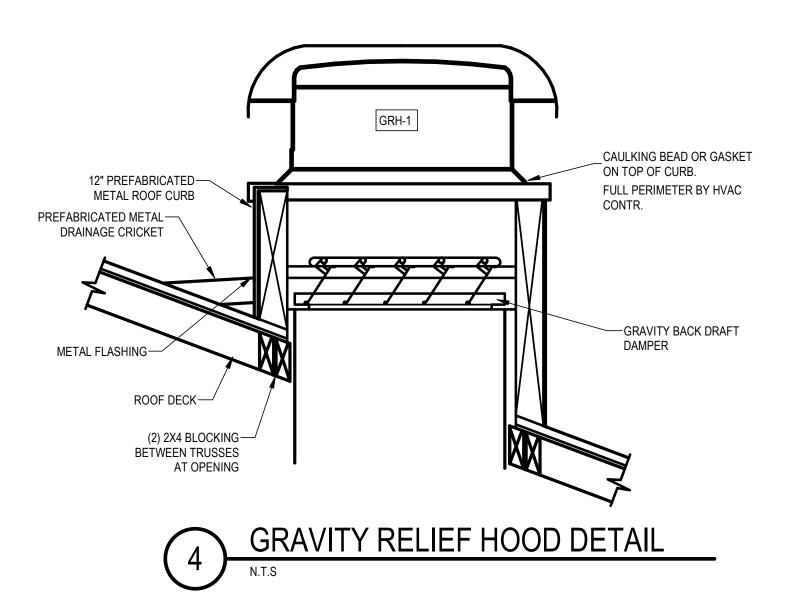
THE ERV SHALL RUN DURING SENSED OCCUPANCY, UNLESS SHUTDOWN ON FACTORY INTEGRAL SAFETIES. STARTED FROM MOTION DETECTED AT EITHER THE MENS OR THE WOMENS ROOMS OCCUPANCY SENSOR.

WHEN THE ERV IS COMMANDED TO RUN: THE LOUVER/DAMPER L-1 SHALL BE OPENED FROM A SIGNAL FROM THE ERV CONTROLLER. THE SUPPLY FAN AND EXHAUST FAN SHALL RUN.

THE ELECTRIC DUCT HEATER SHALL BE ENABLED IF THE DISCHARGE AIR TEMERATURE IS BELOW 60 DEGREES (ADJ) AND ERV-1 IS RUNNING AS SENSED BY THE HEATERS INTEGRAL CONTROLS FOR BOTH AIRFLOW AND TEMPERATURE. UNLESS SHUTDOWN ON FACTORY INTEGRAL SAFTIES. THE ELECTRIC DUCT HEATER SHALL MODULATE TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 90 DEGREES (ADJ).

WHEN OCCUPANCY IS NO LONGER SENSED BY EITHER MOTION SENSOR FOR 15 MINUTES, (ADJ) ERV-1 SUPPLY AND EXHAUST FANS SHALL SHUT DOWN. LOUVER/DAMPER L-1 SHALL CLOSE ELECTRIC DUCT HEATER SHALL BE DISABLED FROM INTEGRAL AIRFLOW PROVING SWITCH.





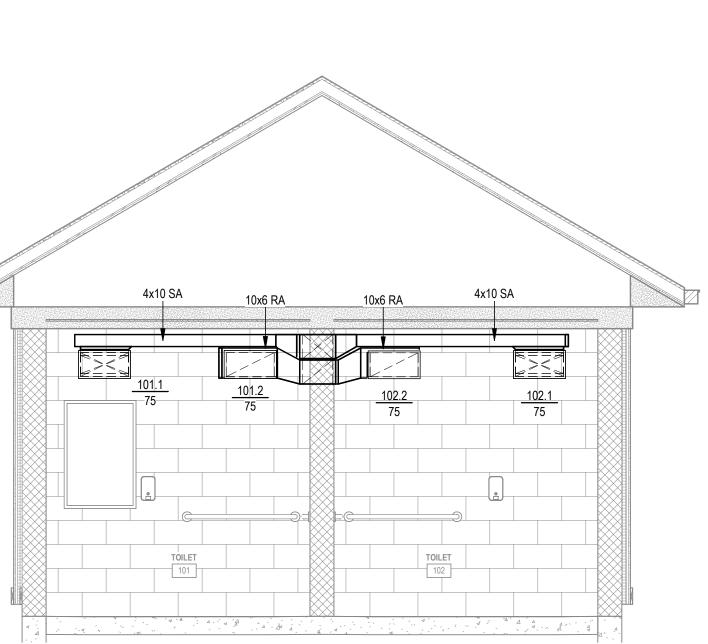
	F		<b>RIC COIL</b>	SCHEDU		
	L					
			ELECTRICAL			
	CAPACITY					
LOCATION	(kW)	CFM	V/PH/HZ	MANUFACTURER	MODEL	NOTES
RESTOOM	2	150	208/3/60	RENEWAIRE	EK-1008002	1,2

1. SCR CONTROLLABLE, PROVIDE CONTROLS TO MAINTAIN DISCHARGE TEMPERATURE SETPOINT (ADJ). 2. CONNECT TO ERV DISCHARGE AIR TEMPERATURE SENSOR.

	GENERAL NOTES - MECHANICAL HVAC	
	<ol> <li>DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND DUCTS AND SUGGESTED ROUTES. IT IS NOT THE INTENTION THE OF DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.</li> <li>MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PATCHING, CAPPING, OR REPAIRING OF WALLS AND ROOF WHERE OPENINGS OCCUR AS A RESULT OF REMOVAL OF MECHANICAL AND ELECTRICAL COMPONENTS AS PART OF THIS CONTRACT, UNLESS THE OPENING IS BEING RE-USED OR ENLARGED IN THE RENOVATION WORK.</li> <li>PROVIDE BALANCE DAMPERS FOR EACH DIFFUSER/GRILLE AND BRANCH DUCT.</li> <li>SIZES INDICATED FOR EXISTING DUCTWORK AND PIPING ARE PER THE ORIGINAL DOCUMENTS. FIELD VERIFY EXACT SIZES AND PROVIDE TRANSITIONS ACCORDINGLY.</li> <li>COORDINATE LOCATIONS OF THE THERMOSTATS WITH OTHER TRADES.</li> </ol>	ARCHITECTS ENGINEERS PLANNERS OHM-ADVISORS.COM
LOUVER SCHEDULE		
MARK     SERVICE     CFM     SIZE (IN.)     DROP (IN-WG)     FREE AREA     MANUFAGE       L-1     ERV RESTROOM     150     24x16     0.001     0.7 SQ FT     GREEN       NOTES:     1. CONNECTED TO ERV-1. 2. PROVIDE WITH 120V ACTUATOR.     24x10     0.001     0.7 SQ FT     GREEN		
ELECTRIC CABINET UNIT HEATER SCHED	DULE	
K         LOCATION         CFM         KW         V/PH/HZ         MCA         MOCP         MANUFACTURE           1         101 WOMEN         70         1.5         208/1/60         6.3         20         TPICORP           2         102 MEN         70         1.5         208/1/60         6.3         20         TPICORP	RER MODEL NOTES HF3215T2RPW 1,2 HF3215T2RPW 1,2	
3         103 MECHANICAL         70         1.5         208/1/60         6.3         20         TPICORP           S:         1. PROVIDE WITH INTEGRAL T-STAT.         2. MOUNT 16" AFF.         2. MOUNT 16" AFF.         2. MOUNT 16" AFF.         2. MOUNT 16" AFF.         3. MOUNT 16" AFF.	HF3215T2RPW 1,2	
AIR TERMINAL SCHEDULE		
V I) MANUFACTURER MODEL DIMENSIONS SUPPLY RETURN PRICE 620 16x8 X PRICE 80 16x8 X	N EXHAUST Comments	2024/11/22
PRICE         620         16x8         X           PRICE         80         16x8         X		
		ISSUED FOR: BID SET
24x16x12 OA PLENUM L-1 10x8 RA BELOW SA 10x4 SA 10x4 SA 16x8		

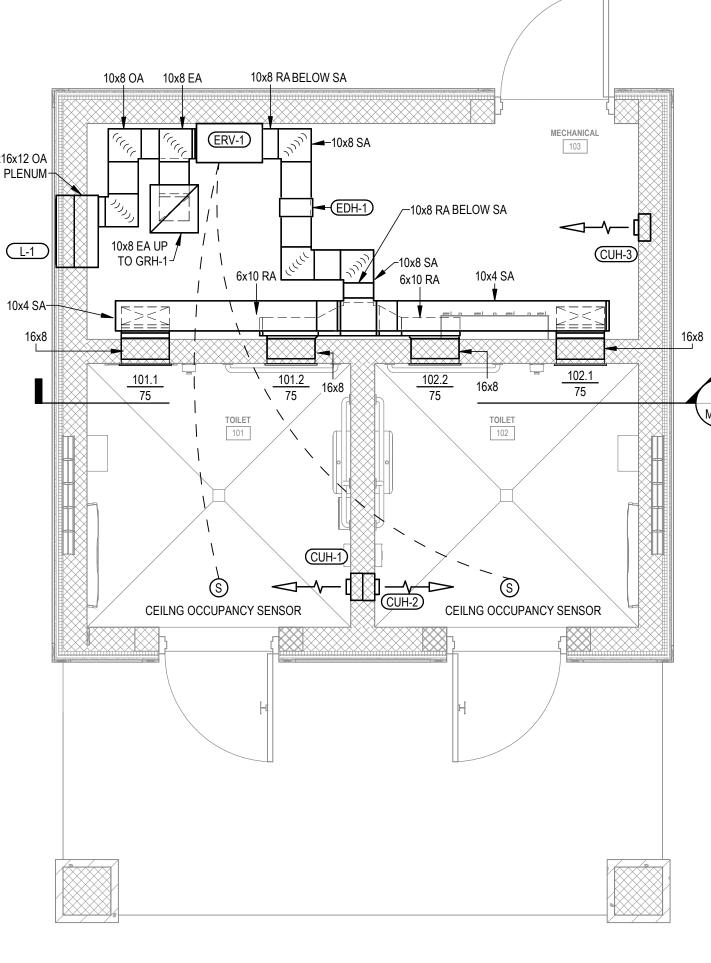
						<ol> <li>DRAWINGS INDIO SUGGESTED RO OFFSETS. INSTA HEADROOM AND</li> <li>MECHANICAL CO REPAIRING OF V MECHANICAL AN BEING RE-USED</li> <li>PROVIDE BALAN</li> <li>SIZES INDICATEI VERIFY EXACT S</li> </ol>	CATE REQUIRED S UTES. IT IS NOT LL WORK IN MAN EEP OPENINGS INTRACTOR IS RE VALLS AND ROOF ID ELECTRICAL C OR ENLARGED IN CE DAMPERS FO D FOR EXISTING I SIZES AND PROVI	ES - MECHANIC SIZES AND POINTS OF TERMINATIO THE INTENTION THE OF DRAWINGS NER TO CONFORM TO STRUCTURE S AND PASSAGEWAYS CLEAR. DO N ESPONSIBLE FOR COORDINATING T WHERE OPENINGS OCCUR AS A RI COMPONENTS AS PART OF THIS CON N THE RENOVATION WORK. DR EACH DIFFUSER/GRILLE AND BRA DUCTWORK AND PIPING ARE PER T IDE TRANSITIONS ACCORDINGLY. E THERMOSTATS WITH OTHER TRAI	N OF PIPES AND DUCTS AND TO INDICATE ALL NECESSARY AVOID OBSTRUCTIONS, PRESERVE OT SCALE FROM DRAWINGS. HE PATCHING, CAPPING, OR ESULT OF REMOVAL OF NTRACT, UNLESS THE OPENING IS NCH DUCT. HE ORIGINAL DOCUMENTS. FIELD		CHITECTS ENGINEERS PLANNERS OHM-ADVISORS.COM
E	MARK SERVICE L-1 ERV RESTROO	CFM	LOUVER SC MAX PRE SIZE (IN.) DROP (IN- 24x16 0.001	SS. MINIMU WG) FREE AF	UM REA MANUFACT						
	1. CONNECTED TO NOTES: 2. PROVIDE WITH 1										
MARK CUH-1 CUH-2		CFM         KW           70         1.5           70         1.5	INET UNIT H           ELECTRICA           V/PH/HZ         MCA           208/1/60         6.3           208/1/60         6.3		SCHEDU MANUFACTURER TPICORP TPICORP						
CUH-3 NOTES:	103 MECHANICAL 1. PROVIDE WITH INTEGRAL 2. MOUNT 16" AFF.	70 1.5 T-STAT.	208/1/60 6.3	20	TPICORP	HF3215T2RPV	N 1,2				
	Α		INAL SCHED	ULE							
FLOW (CFM) <sup>75</sup>	MANUFACTURER	MODEL 620	DIMENSIONS 16x8	SUPPLY	RETURN	EXHAUST	Comments	<u>,</u>		2024/11/22	
75 75 75 75	PRICE PRICE PRICE	80 620 80	16x8 16x8 16x8	X	X					20	
										ISSUED FOR: BID SET	
	24x16x12 OA PLENUM L-1 10x4 SA 16x8 16x8	GRH-1 / / /					16x8 2 M-101				

					0	ENERAL	. NOTE	ES - ME	CHANICA	L HVAC		
ES					2. 3. 4.	SUGGESTED ROUT OFFSETS. INSTALL HEADROOM AND KI MECHANICAL CONT REPAIRING OF WAL MECHANICAL AND I BEING RE-USED OF PROVIDE BALANCE SIZES INDICATED F VERIFY EXACT SIZE	ES. IT IS NOT WORK IN MANI EEP OPENINGS RACTOR IS RE LS AND ROOF ELECTRICAL CO ELECTRICAL CO ENLARGED IN DAMPERS FOR OR EXISTING D ES AND PROVID	THE INTENTION T NER TO CONFOR AND PASSAGEW SPONSIBLE FOR WHERE OPENING OMPONENTS AS I THE RENOVATION EACH DIFFUSEI DUCTWORK AND DE TRANSITIONS	THE OF DRAWINGS TO M TO STRUCTURE, AV VAYS CLEAR. DO NOT S COORDINATING THE F GS OCCUR AS A RESUL PART OF THIS CONTR/ DN WORK. R/GRILLE AND BRANCH PIPING ARE PER THE (	CT, UNLESS THE OPENING IS	ARCHITEC	CTS ENGINEERS PLANM HM-ADVISORS.COM
NOTES 1,2	MARK SERVICE L-1 ERV RESTROC NOTES: 1. CONNECTED TO 2. PROVIDE WITH 1	CFM         SIZE           DM         150         24x           D ERV-1.         24x         24x	( ) (	MINIMU	JM REA MANUFACTUR		NOTES 1,2					
		70     1.5     20       70     1.5     20       70     1.5     20       70     1.5     20	TUNITHE         ELECTRICAL         /PH/HZ       MCA         08/1/60       6.3         08/1/60       6.3         08/1/60       6.3	ATER MOCP 20 20 20	SCHEDU MANUFACTURER TPICORP TPICORP	MODEL HF3215T2RPW HF3215T2RPW HF3215T2RPW	NOTES 1,2 1,2 1,2					
	LOW CFM) MANUFACTURER 75 PRICE 75 PRICE 75 PRICE	AIR TERMINA MODEL DI 620 80 620		JLE SUPPLY X	RETURN I	EXHAUST C	comments				2024/11/22	
102.2	75 PRICE	A 10x8 EA 10x8 R	ABELOW SA		X			_			ISSUED FOR: BID SET	
	10x4 SA	Image: constraint of the second se	ULL 10 61 01.2 75 16x8 0 0 0 0 0 0 0 0 0 0 0 0 0		$\triangleleft$		8 2 M-101					

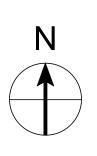




2







PEAF . PLAN RIALS APF FIRST FLOOR MECHANICAL

I CHARTER TOWNSHIP HILL VILLAGE

NO

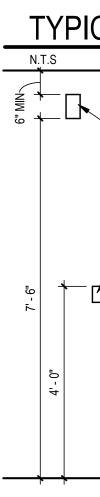
CANT

CHERRY

M-101

# NOTES

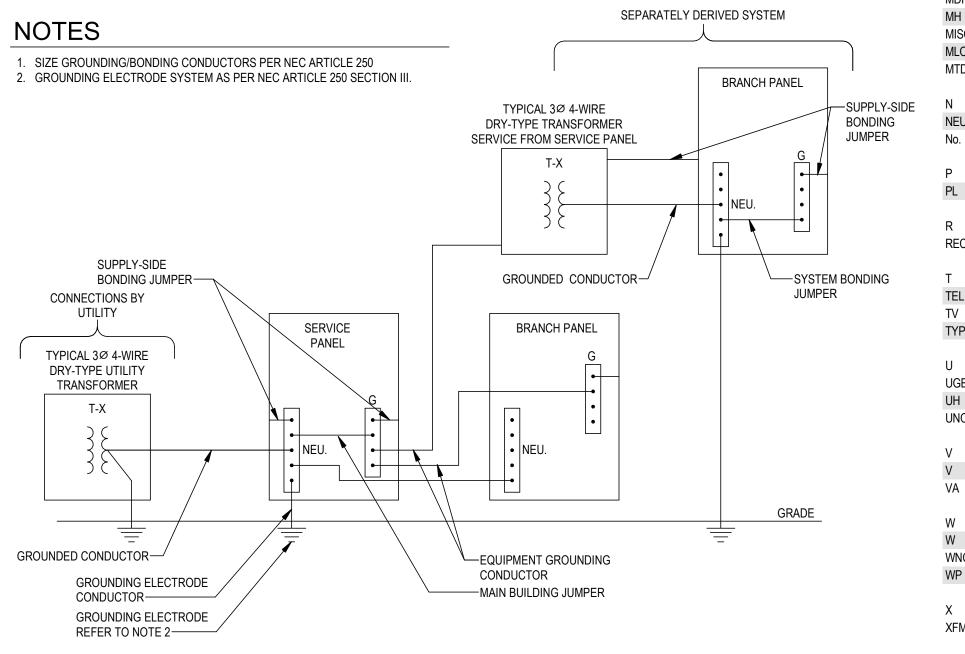
CONNECTIONS BY UTILITY TYPICAL 3Ø 4-WIRE DRY-TYPE UTILITY TRANSFORMER T-X  $\sum \zeta$ 



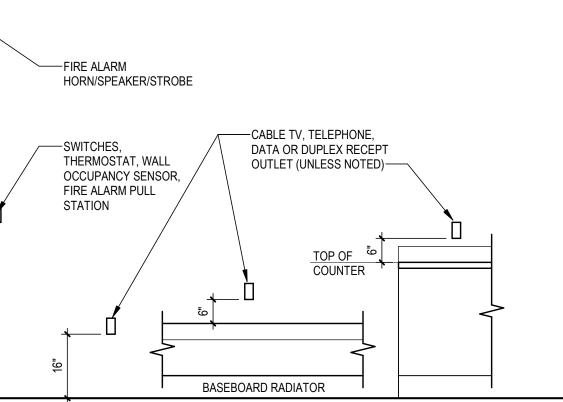
# ELEC. ABBREVIATION. GENE

SPECIAL		1. ALL ELEC
φ	PHASE	2. THE ELEC INSPECTI
A		3. THE ELEC COSTS SI
A	AMPERE	
AFF	ABOVE FINISHED FLOOR	
С		
С	CONDUIT	
CAT	CATALOGUE	
CB		
CMU	CONCRETE MASONRY UNIT	
CO. CUH	COMPANY CABINET UNIT HEATER	
_		
E EC	ELECTRICAL CONTRACTOR	
EF	EXHAUST FAN	
EWC	ELECTRIC WATER COOLER	
F		
FA	FIRE ALARM	
G		
G	GROUND FAULT CIRCUIT	
0.12	INTERRUPTER	
GND	EQUIPMENT GROUND	
н		<b></b>
HID	HIGH INTENSITY DISCHARGE	ELEC
HPS	HIGH PRESSURE SODIUM	
HVAC	HEATING VENTILATING & AIR	LIGHT F
	CONDITIONING	(e LF-1)
к		H -
K	KEY OPERATED DEVICE	Z -
KVA	KILOVOLT-AMPERES	
KW	KILOWATTS	
L LED	LIGHT EMITTING DIODE	
LED		•••
М		
MCB	MAIN CIRCUIT BREAKER	••••
MDP	MAIN DISTRIBUTION PANEL	
MH		
MISC MLO	MISCELLANEOUS MAIN LUG ONLY	
MTD	MOUNTED	
N NEU		
NEU No.	NEUTRAL NUMBER	$\cap$
P PL	PILOT	
ΓL	I'ILUI	
R		
RECEPT	RECEPTACLE	
Т		
TEL	TELEPHONE	
TV TYP	TELEVISION TYPICAL	(WALL) (CEILI
111		
U		
UGE UH	UNDERGROUND ELECTRIC UNIT HEATER	(LIGHT)(NO LIC
UH UNO	UNIT HEATER UNLESS NOTED OTHERWISE	
V		POWER
V		
VA	VOLT-AMPERES	
W		
W	WIRE	
WNC WP	WIRELESS NETWORK CONTROLLER WEATHERPROOF	
V V I-		
Х		М
XFMR	TRANSFORMER	DP##
		PP##

## GROUNDING BONDING DIAGRAM

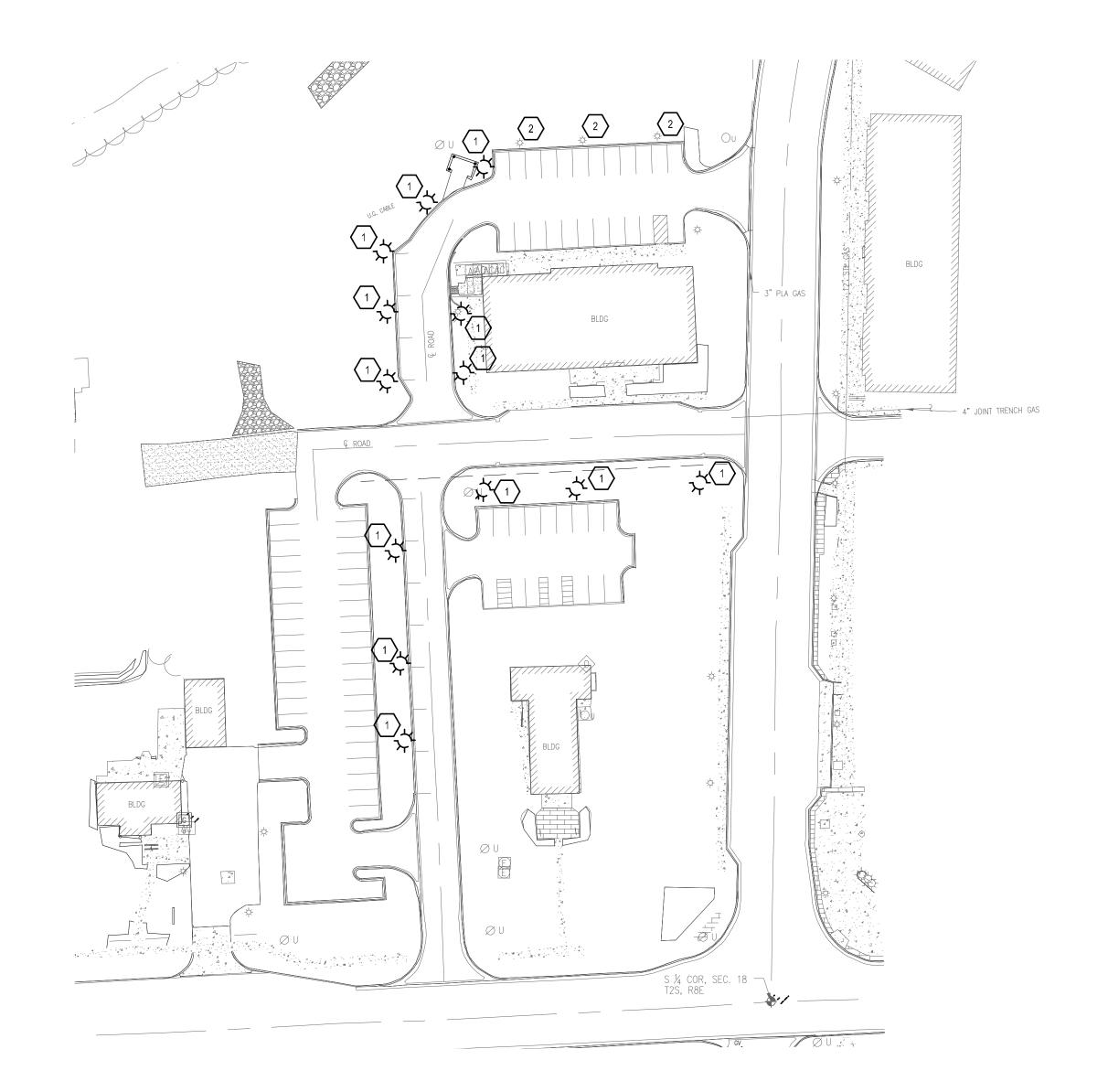


## **TYPICAL MOUNTING HEIGHTS**



CEILING

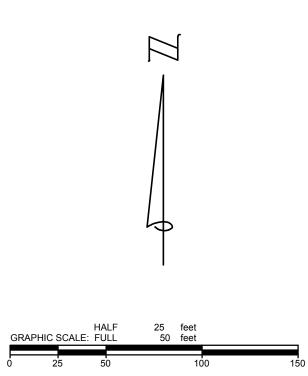
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPO INSPECTIONS. UPON COMPLETION OF THE WORK	CORDANCE WITH THE CURRENT NATIONAL ELECTRICAL NSIBLE FOR THE ACQUISITION OF AN ELECTRICAL PERI THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE O NSIBLE FOR ALL COORDINATION REQUIRED WITH THE E	MIT AND SCHEDULING OF THE NECESSARY WNER EVIDENCE OF INSPECTION APPROVAL.		CHITECTS E		PLANNERS
	1					
LIGHT FIXTURES	RECEPTACLE OUTLETS	Image: Heat detector(CLG) (WALL)(CLG) (WALL)(CEILING) (WALL)(CEILING) (WALL)	PROJECT NUMBER         PM         2024/11/22           0133-24-0020         CM         2024/11/22	CHARTER	CHERRY HILL VILLAGE Cherry Hill Rd, Canton, MI 48187	
<ol> <li>MINIMUM SIZE OF FLEX CONDUIT SHALL BE 1/2".</li> <li>MINIMUM SIZE WALL BOX IN CMU SHALL BE 4"X4".</li> </ol>	SWITCH LOOP WIRING				ت ق -00	
4. MINIMUM SIZE OF UNDERGROUND CONDUIT SHALL BE 1 1/4"	DATA WIRING				UU	I





(#) DENOTES PLAN KEY NOTE ITEM USING NUMBERS BELOW.





## ELECTRICAL DEMOLITION KEYNOTES

REMOVE LIGHT POLE, FIXTURE, AND FOUNDATION. REMOVE CONDUCTORS, CAP AND ABANDON CONDUIT. SALVAGE FIXTURE AND POLE. RETURN TO THE OWNER.
 REMOVE AND SALVAGE EXISTING LIGHT POLES AND FIXTURES FOR RELOCATION. CONDUIT AND CONDUCTORS TO REMAIN FOR RE-USE.

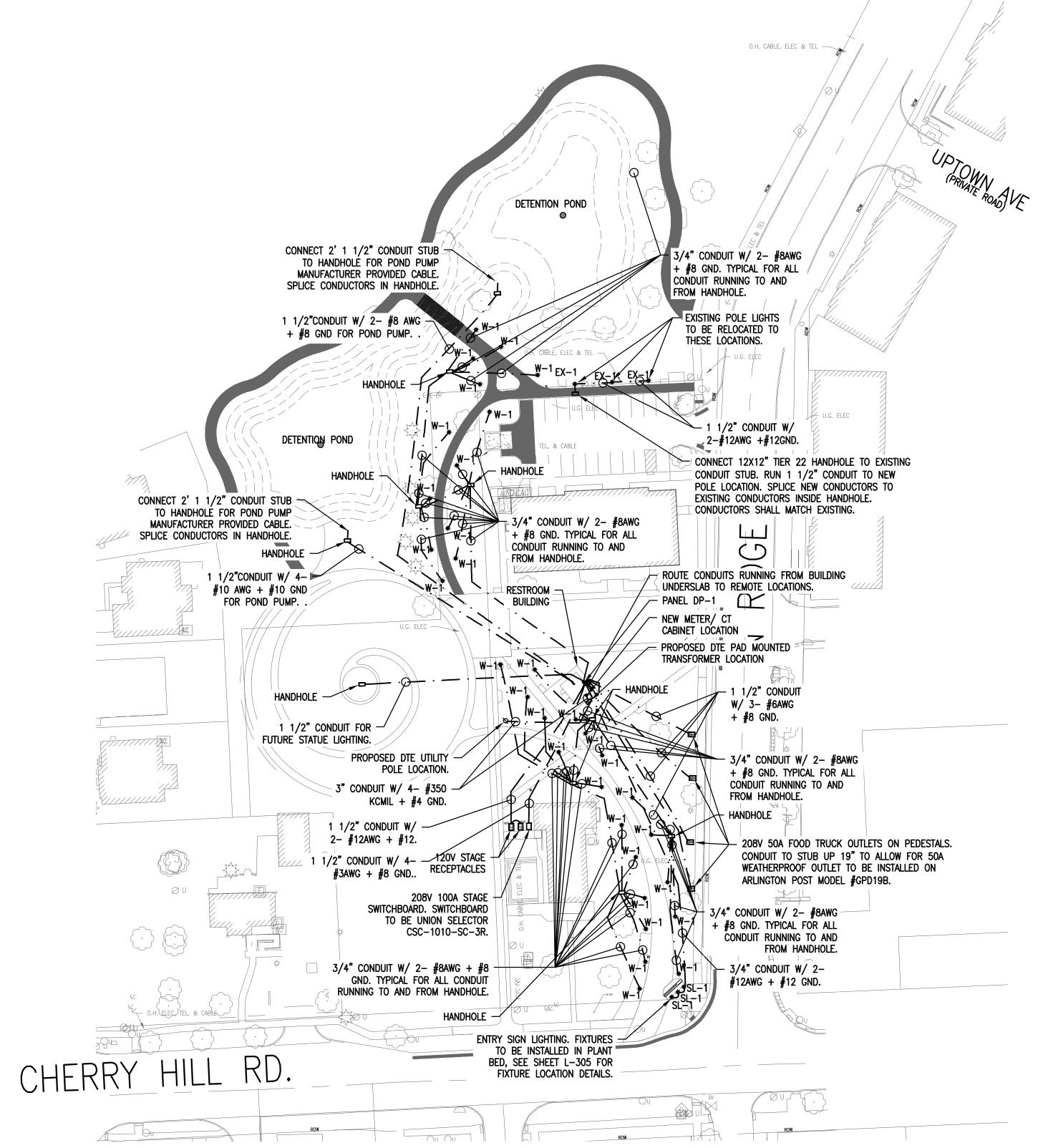
	PROJECT NUMBER PM	ISSUED FOR: BID SET	2024/11/22	
	0133-24-0020 CM	REVISION DESCRIPTION	DATE	
E	CANTON CHARTER TOWNSHIP			
)				
_	CHERRY HILL VILLAGE PHASE 1			
1 (				
<u>)</u>	CANTON TOWNSHIP, MICHIGAN			
1				
	ELECTRICAL DEMOLITION PLAN			



Know what's **below. Call** before you dig.







HLF = 25  feet		RCHITE	ECTS E		S PLANN	ERS	
	ά	REVISION DESCRIPTION DATE					IRS AND THE SAME MAY NOT BE DUPLICATED, DISTRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM ADVISORS
	PROJECT NUMBER PM	0133-24-0020 CM	CANTON CHARTER TOWNSHIP	CHERRY HILL VILLAGE PHASE 1	CANTON TOWNSHIP, MICHIGAN	ELECTRICAL SITE PLAN	COPYRIGHT 2024 OHM ADVISORS. ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF OHM ADVISORS AND THE SAME MAY NOT BE DUPLICATED, DISTRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM ADVISORS

## MOUNT ALL RECEPTACLES IN \_\_\_\_\_ MECHANICAL ROOM 48" AFF.

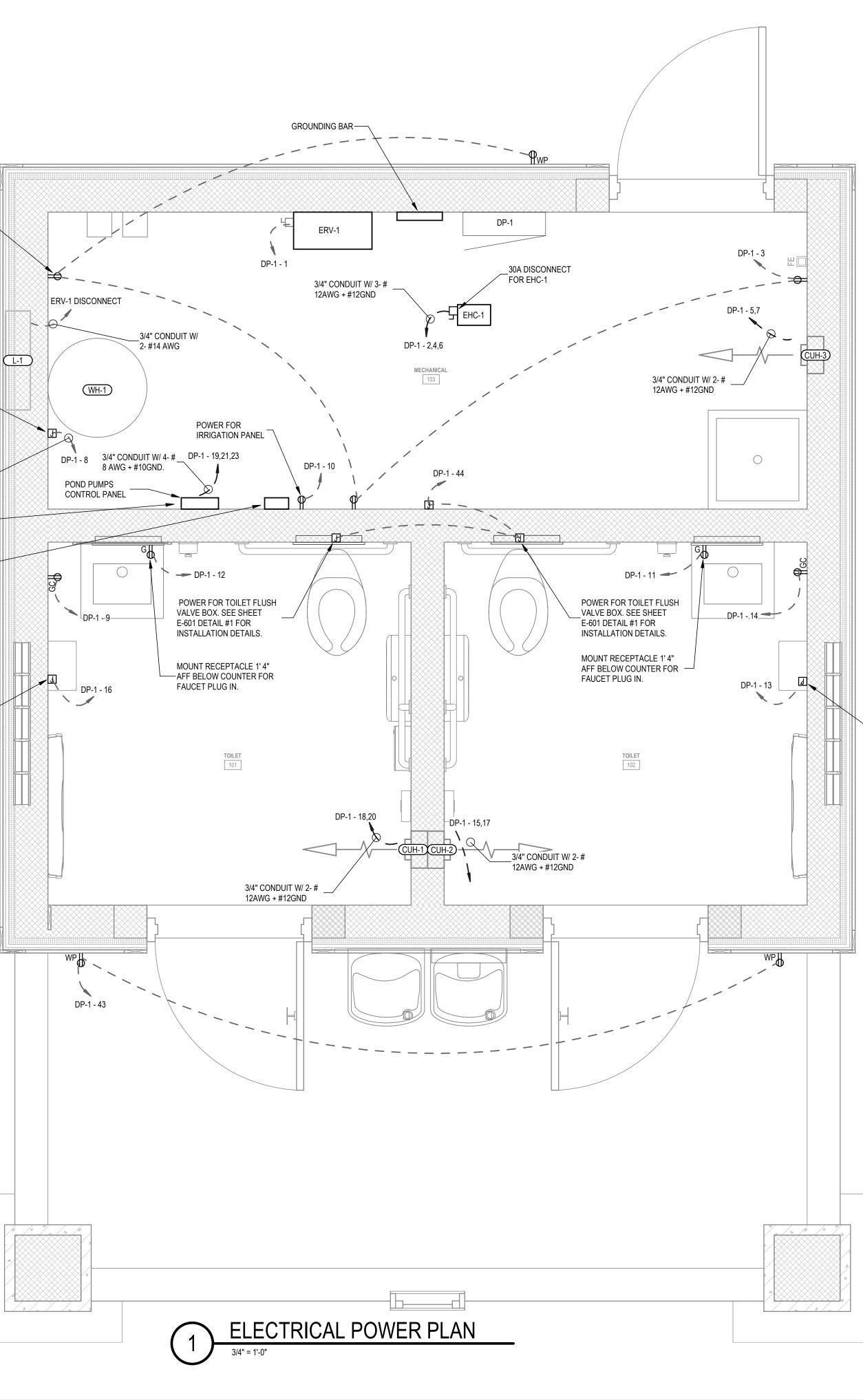
POWER FOR WH-1-

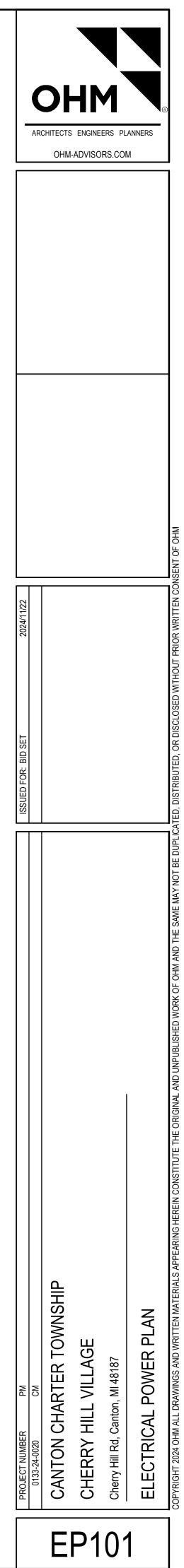
## 3/4" CONDUIT W/ 2- # 10AWG + #10 GND.

POND PUMP CONTRACTOR TO RUN CONDUIT/CONDUCTORS FROM CONTROL PANEL TO POND PUMP LOCATIONS AT PONDS. SEE SHEET ES-101 FOR CONDUIT ROUTING.

IRRIGATION CONTROL PANEL -

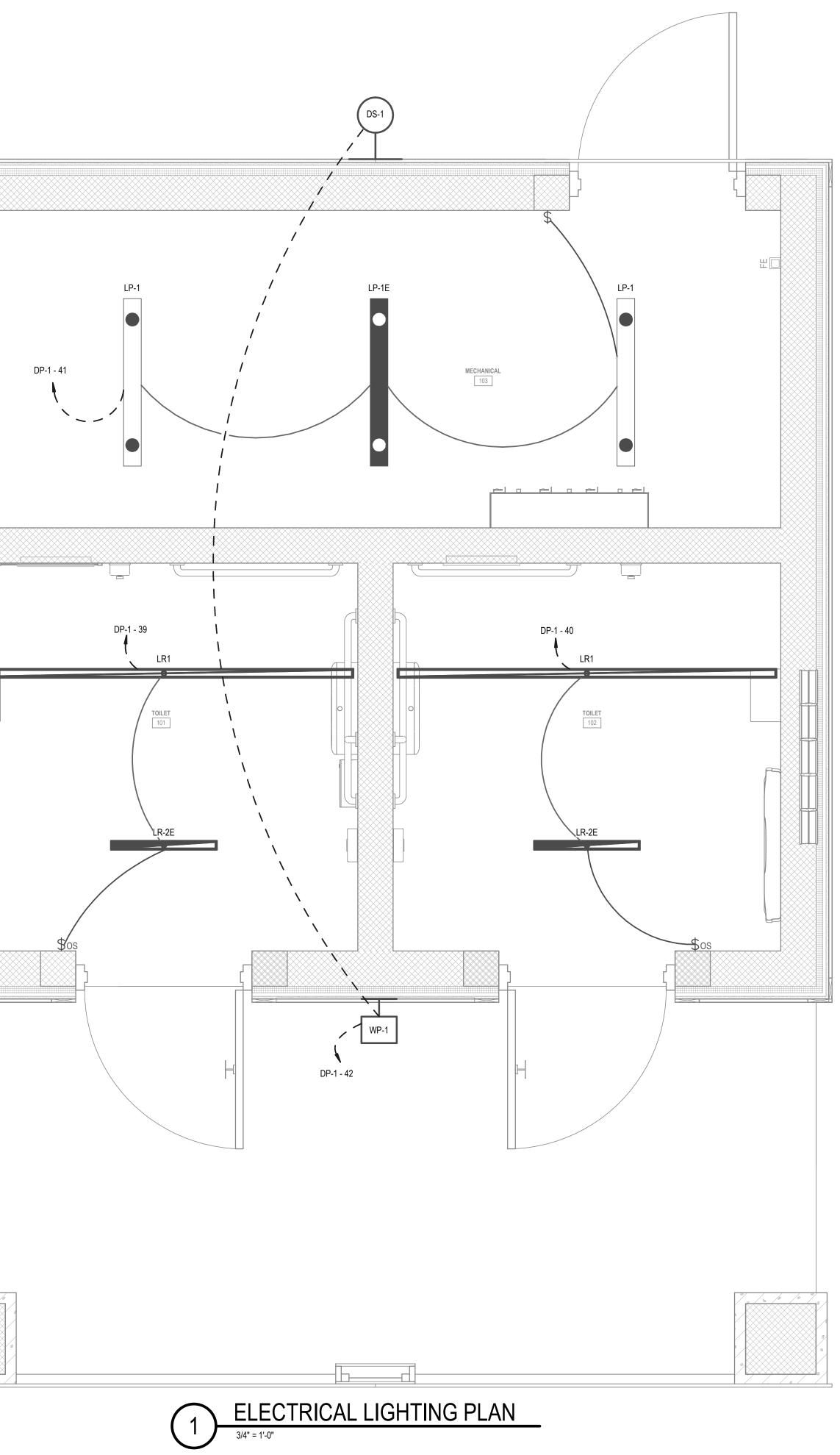
POWER FOR HAND DRYER



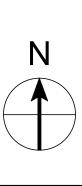


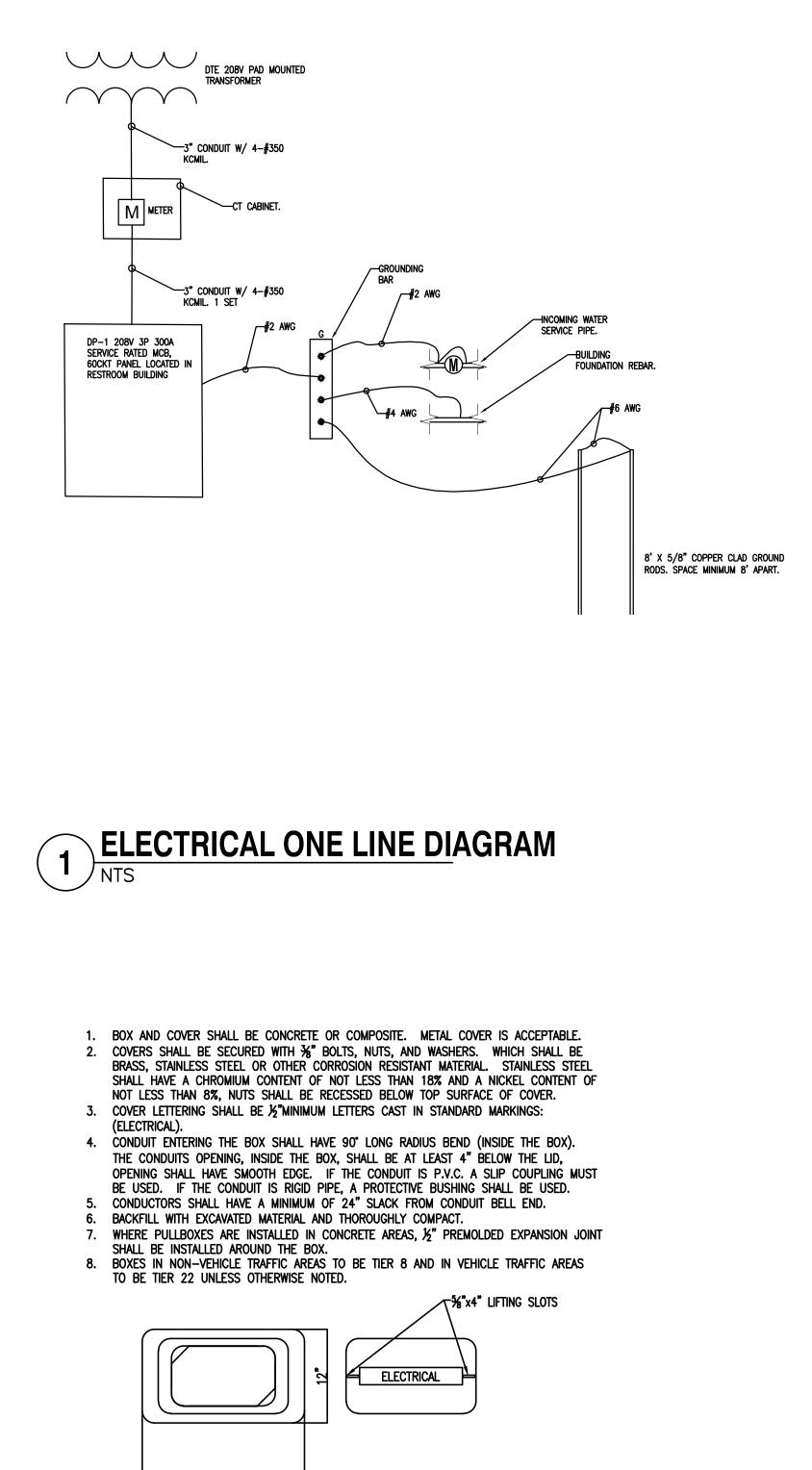
Ν

POWER FOR HAND DRYER



	PROJECT NUMBER PM	ISSUED FOR: BID SET	2024/11/22		•	
	0133-24-0020 CM				AR	(
Ε	CANTON CHARTER TOWNSHIP				CHITECTS	<b>D</b> ł
L1	CHERRY HILL VILLAGE				ENGINE	▼ 1⊢
01	Cherry Hill Rd, Canton, MI 48187					
	ELECTRICAL LIGHTING PLAN					
						R





\_16"x8" CONCRETE

**\**ALL CONDUIT END BELLS

SHALL BE INSTALLED

1" PVC CONDUIT

FOR DRAINAGE

BEFORE PULLING WIRE

BRICK

12"

Cover to be v Flush with finish grade

6A BACKFILL WITH

5%″∅ (TYPICAL) GROUND /

ROD (8' MIN. LENGTH)

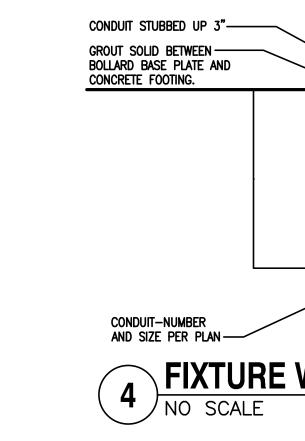
NO SCALE

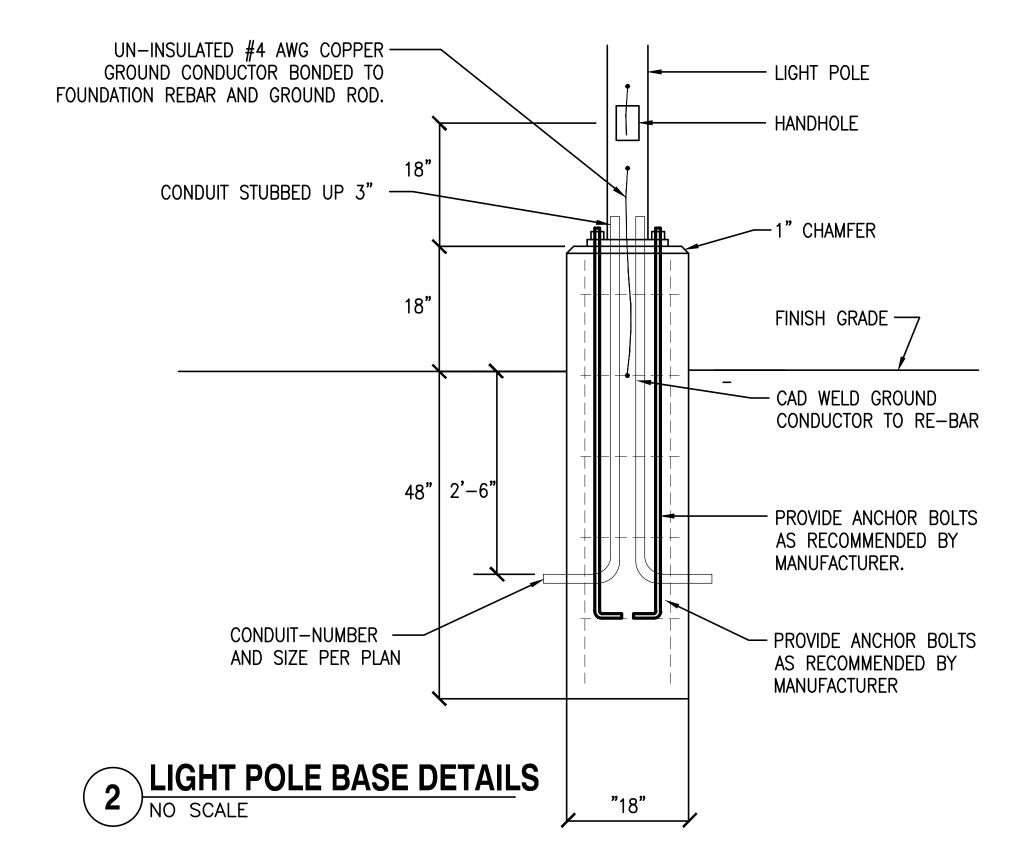
**HANDHOLE DETAIL** 

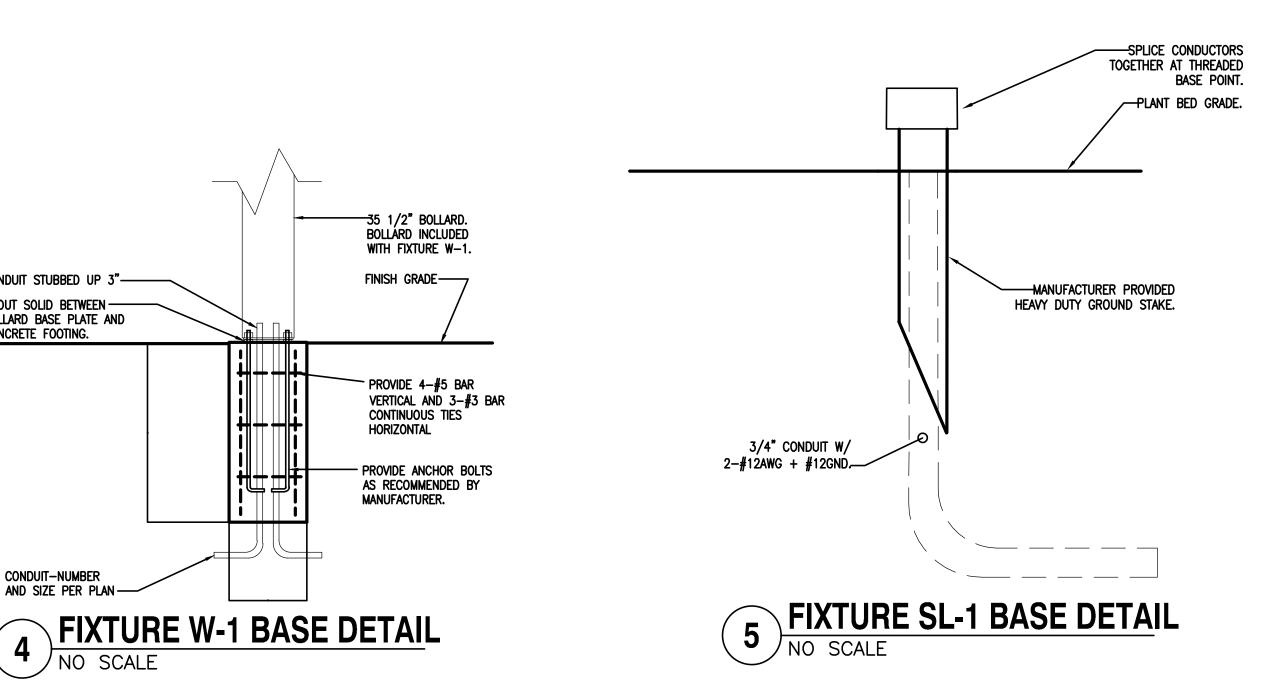
MINIMUM OF 5 INCH DEPTH

3









		77/1.1/6707
0133-24-0020 CM	REVISION DESCRIPTION	DATE
CANTON CHARTER TOWNSHIP		
CHERRY HILL VILLAGE PHASE 1		
CANTON TOWNSHIP, MICHIGAN		
ELECTRICAL DETAILS		

## BRANCH PANEL: DP-1

LOCATION: MECHANICAL 103 SUPPLY FROM:

MOUNTING: SURFACE ENCLOSURE: TYPE 1

NOTES:

IDENTIFICATION	WIRES	POLE	AMP	скт	А	в	с	А	в	с	скт	AMP	POLE	WIRES	IDENTIFICATIO	
ERV-1	12	1	20	1	0.06			0.67	5	0	2			WIILD	IDENTIFICATION	
ME 103 GENERAL RECEPTS	12	1	20	3		0.72			0.67		4	20	3	12	EHC-	
01111.0	12	2	20	5			0.75			0.67	6					
CUH-3				7	0.75			2.50			8	30	1	10	WH	
WOMEN 101 RECEPTACLE	12	1	20	9		0.18			0.60		10	20	1	12	IRRIGATION CONTROL PANE	
MENS FAUCET	12	1	20	11			0.72			0.72	12	20	1	12	WOMENS FAUCE	
MENS HAND DRYER	12	1	20	13	0.60			0.18			14	20	1	12	MEN 102 RECEPTACL	
	10	2	20	15		0.75			0.60		16	20	1	12	WOMENS HAND DRYE	
CUH-2	12	2	20	17			0.75			0.75	18	20 2	12	CUH-		
	8	3	50	19	3.60			0.75			20	20     2       50     2	12			
POND PUMPS CONTROL PANEL				21		3.60			5.20		22		2	8	50A FOOD TRUCK OUTLET	
				23			3.60			5.20	24		2			
50A FOOD TRUCK OUTLET 2	8	2	50	25	5.20			5.20			26	50 2	8	50A FOOD TRUCK OUTLET		
				27		5.20			5.20		28					
50A FOOD TRUCK OUTLET 4	8	2	50	29			5.20			0.60	30	20	1	12	ENTRY SIGN LIGHTIN	
	Ŭ	-		31	5.20			0.60			32	20	20 1		GENERAL STAGE OUTLET	
GENERAL STAGE OUTLET 2	12	1	20	33		0.60			6.33		34					
PATHWAY LIGHTING NORTH	12	1	20	35			0.50			6.33	36	100 3		3	STAGE CONCERT 100 SWITCHBOARI	
PATHWAY LIGHTING SOUTH	12	1	20	37	0.50			6.33			38					
WOMEN 101 LIGHTING	12	1	20	39		0.00			0.00		40	20	1	12	MEN 102 LIGHT	
MECHANICAL 103 LIGHTS	12	1	20	41			0.19			0.00	42	20	1	12	EXTERIOR LIGHT	
FRONT OUTDOOR RECEPTACLES	12	1	20	43	0.36			1.20			44	20	1	12	TOILET FLUSH VALVE	
SPARE	12	1	20	45		0.00			0.00		46	20	1	12	SPAR	
SPARE	12	1	20	47			0.00			0.00	48	20	1	12	SPAR	
SPARE	12	1	20	49	0.00			0.00			50	20	1	12	SPAR	
				51							52					
				53							54					
				55							56					
				57							58					
				59							60					

VOLTS: 120/208 Wye

PHASES: 3

WIRES: 4

SCCR RATING: 35,000

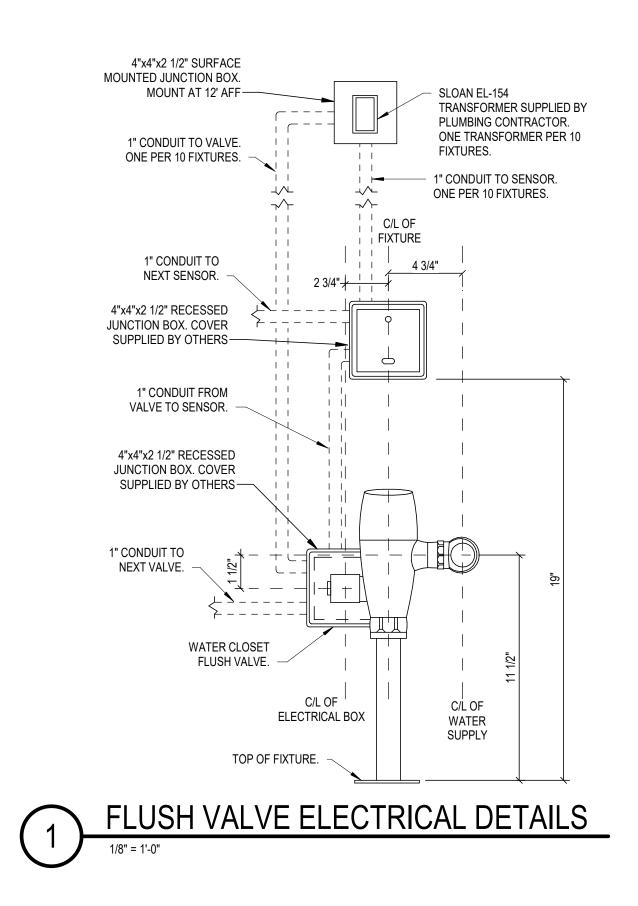
MAINS TYPE: MCB

MAINS RATING: 400 A

MCB RATING: 300 A

		LIGHTING I	FIXTURE SCHEDULE			
SCHEDUL	E NOTES:					
TYPE	DESCRIPTION	MFR.	CATALOG #	LAMPS	WATTS	NOTES
DS-1	SCONCE LIGHT FIXTURE	SPECTRUM LIGHTING	WS1611-TD10L-30K-DX-TF2-PA22-MW-EG	LED	15	PROVIDE INTEGRATED PHOTOCELL TO CONTROL FIXTURE.
EX-1	EXISTING POLE LIGHT				30	SEE SITE PLANS FOR RE-USE PLANS
LP-1	LINEAR PENDANT LIGHTING FIXTURE	LITHONIA LIGHTING	CLX L36 3750LM SEF RDL MVOLT GZ10 40K 80CRI	LED	26.47	
LP-1E	LINEAR PENDANT LIGHTING EMERGENCY FIXTURE	LITHONIA LIGHTING	CLX L36 3750LM SEF RDL MVOLT GZ10 40K 80CRI-LGD18W	LED	26.47	PROVIDE UN-SWITCHED HOT FOR "E" LIGHTING
LR1	ASYMETRICAL DOWNLIGHT LIGHTING FIXTURE	LITHONIA LIGHTING	HP-2-R-D-7'-2"-V-840-DAO-L-96LG-120-SC- FC-10-VF-FE-SW	LED	73.8	
LR-2E	STANDARD DOWNLIGHT EMERGENCY FIXTURE	LITHONIA LIGHTING	HP-2-R-D-2'-V-840-F-96LG-120-SC-FC-10-V F-FE-SW-LGD18W	LED	73.8	PROVIDE UN-SWITCHED HOT FOR "E" LIGHTING
SL-1	ENTRY SIGN UPLIGHT	FC OUTDOOR LIGHTING	FC1106-UNV-3K-CRI90-36L-BKE-40-PE-CV 6-HGS	LED	26	
W-1	WALKWAY LIGHT	LANDSCAPE FORMS	AJ100-T4-30K-UV1-BLK	LED	10	
WP-1	WALLPACK FIXTURE	BEGA	B22261-WHT	LED	6	PROVIDE INTEGRATED PHOTOCELL TO CONTROL FIXTURE.





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CHERRY HILL

CANTON CHARTER TOWNSHIP CHERRY HILL VILLAGE