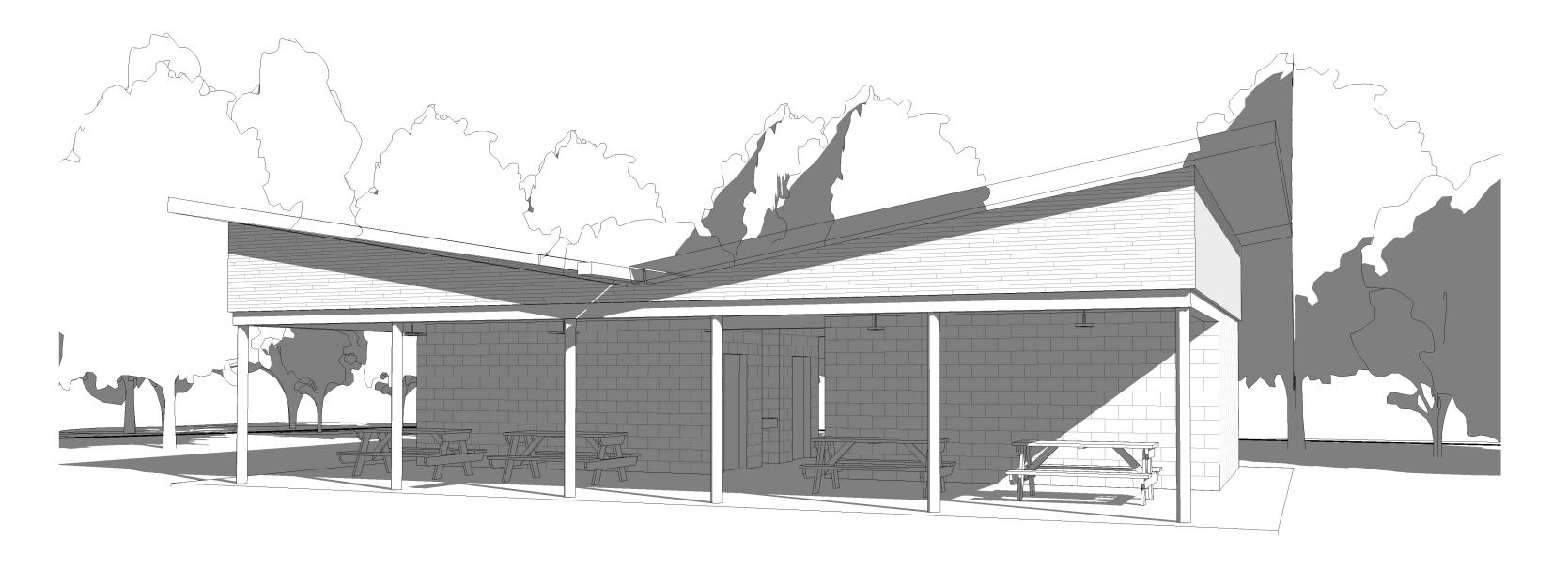
Birch Meadow Restroom & Support Building Reading, MA



ARCHITECT
OCO architecture::design P.O. Box 709 Hingham, MA 02043 T: 617-699-8395

STRUCTURAL ENGINEER

SSB Engineering 146 Front Street Suite 301 Scituate, MA 02066 T: 857-504-1065

MEP ENGINEER

Building Engineering Resources, Inc. 66 Main Street North Easton, MA 02356 T: 508-230-0260

ELECTRICAL ENGINEER

NV5 200 Brickstone Square Andover, MA 01810 T: 978. 296.6223

DRAWING LIST		
A101	First Floor Plan	

A102	RCP & Roof Plans
A201	Elevations
A301	Building Sections & D
A302	Building Sections
A401	Enlarged Toilet Room
S1	Cover Sheet & Structor
S2	Foundation Plan
S3	Ceiling Joist / Attic Fra
S4	Roof Framing Plan
S5	Structural Sections ar
M1.1	Mechanical Floor Plar
E000	Electrical Legend
E100	Electrical Floor Plan
E200	Electrical Details and
P1.0	Plumbing Legend
P1.1	Plumbing Floor Plan

& Details

oom Plan & Elevations

ructural Notes

Framing Plan

and Details

Plan

and Schedules

PROJECT BASIS

THE INTERNATIONAL BUILDING CODE (IRC 2015) THE MASSACHUSETTS CODE (780 CMR) 9TH EDITION (MASS AMENDMENTS TO THE IRC) MASSACHUSETTS ARCHITECTURAL ACCESS BOARD 521 CMR AMERICANS WITH DISABILITIES ACT (ADA)

PROJECT DESCRIPTION

OF THE ADA AND MAAB.

THE PROJECT INCLUDES THE NEW CONSTRUCTION OF TWO FREE-STANDING STRUCTURES COVERED BY A PAVILION ROOF. ONE STRUCTURE HOUSES TWO UNISEX RESTROOMS AND A MECHANICAL/STORAGE SPACE TOTALING 310 SF. THE OTHER STRUCTURE WILL BE USED ENTIRELY FOR STORAGE, TOTALING 320 SF. THE OPEN PAVILION SPACE IS 760 SF.

THE BUILDING IS CLASSIFIED AS USE GROUP U, UTILITY AND S-2 STORAGE. THE CONSTRUCTION IS VB UNPROTECTED. PER TABLE 503 THE MINIMUM ALLOWABLE BUILDING SIZE IS 1 STORY/5,500 SF.

THE BUILDINGS ARE UNCONDITIONED AND NOT REQUIRED TO MEET THE PROVISIONS OF THE IECC. THEY ARE TO BE USED MAY-NOVEMBER. THE BUILDINGS SHALL BE FULLY ACCESSIBLE AND MEET THE REQUIREMENTS

GENERAL PROJECT NOTES

1.. ALL CONSTRUCTION, INSTALLATION, MATERIALS AND METHODS OF PRACTICE SHALL BE PERFORMED BY A LICENSED CONTRACTOR AND CONFORM WITH ALL CURRENT CODES, RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.

2. ALL WORK SHALL BE CONSIDERED NEW.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, NOTES AND CONDITIONS ON SITE BEFORE ANY CONSTRUCTION WORK IS PERFORMED. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT.

4. THE SCOPE OF THESE DRAWINGS ARE LIMITED TO THE BUILDING ITSELF AND 10'-0" FROM THE PERIMETER WITH THE EXCEPTION OF FINAL BASE AND PAVEMENT MATERIAL. COORDINATION WILL BE REQUIRED.

5. ALL CONSULTANT DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL PLANS.

6. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

7. IF SHOP DRAWINGS ARE REQUIRED FOR ANY BUILDING COMPONENT, THEY SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

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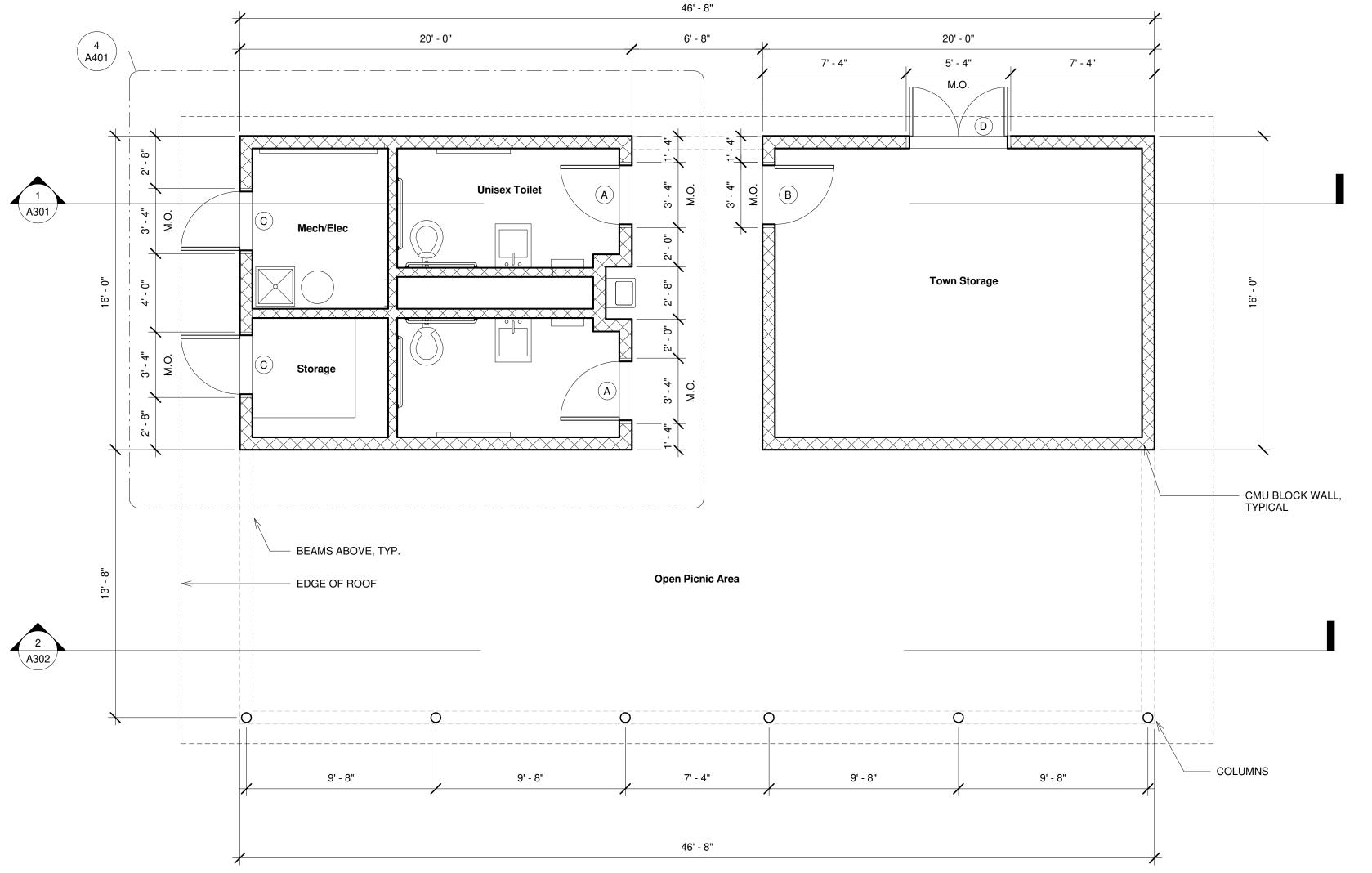
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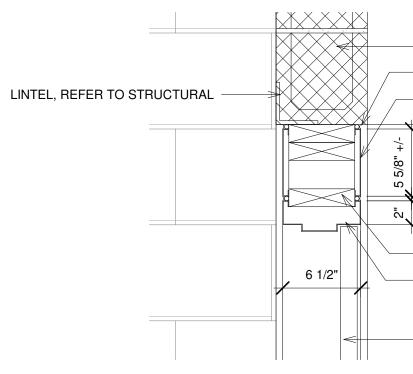
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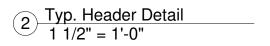


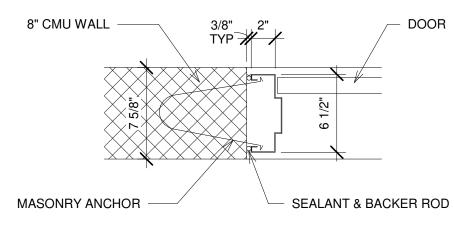
1 First Floor 1/4" = 1'-0"



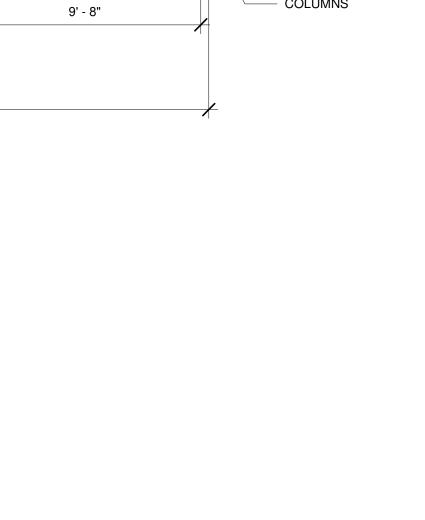
ALL CORES TO BE PRIMUS EVEREST TO MATCH TOWN KEYING







3 Typ. Jamb Detail 1 1/2" = 1'-0"



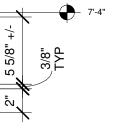


DC	OR S	C⊦	IEDULE		
Height Finish		sh	Frame Type	Comments	
" - 8"	Paint		Hollow Metal	Hardware Set 1	
" - 8"	Paint		Hollow Metal	Hardware Set 2	
" - 8"	Paint		Hollow Metal	Hardware Set 3	
" - 8"	Paint		Hollow Metal	Hardware Set 4	
	·				
			l	Hardware Set 2	
		ŀ	(3) BUTT HINGES	4 1/2" H/ Finish 32D	
			SINGLE CYLINDER HANDSET - TUBULAR LEVER Finish US32D		
ADER			STOREROOM LOCK W/ WIRELESS CARD READER		
			CLOSER		
			DOOR STOP		
			THRESHOLD		
			ROOM SIGNAGE	- ADA	
			Har	dware Set 4	
	(3) E	3U	TT HINGES (each pa	nel) 4 1/2" H/ Finish 32D	
	SIN	GL	E CYLINDER HAND	SET - TUBULAR LEVER Finish US32D	
	DUN	ЛN	IY HANDSET - TUBL	ILAR LEVER Finish US32D	
DER	UTILITY LOCK WITH WIRELESS CARD READER			LESS CARD READER	
	FLUSH BOLT				
	ASTRAGAL				
	THRESHOLD				
	ROOM SIGNAGE - ADA				

- CMU BLOCK

— BACKER ROD & SEALANT, TYP.

----- METAL PANEL, PAINT TO MATCH DOOR/DOOR FRAME



2x6 STUDS ------ HOLLOW METAL FRAME

- DOOR

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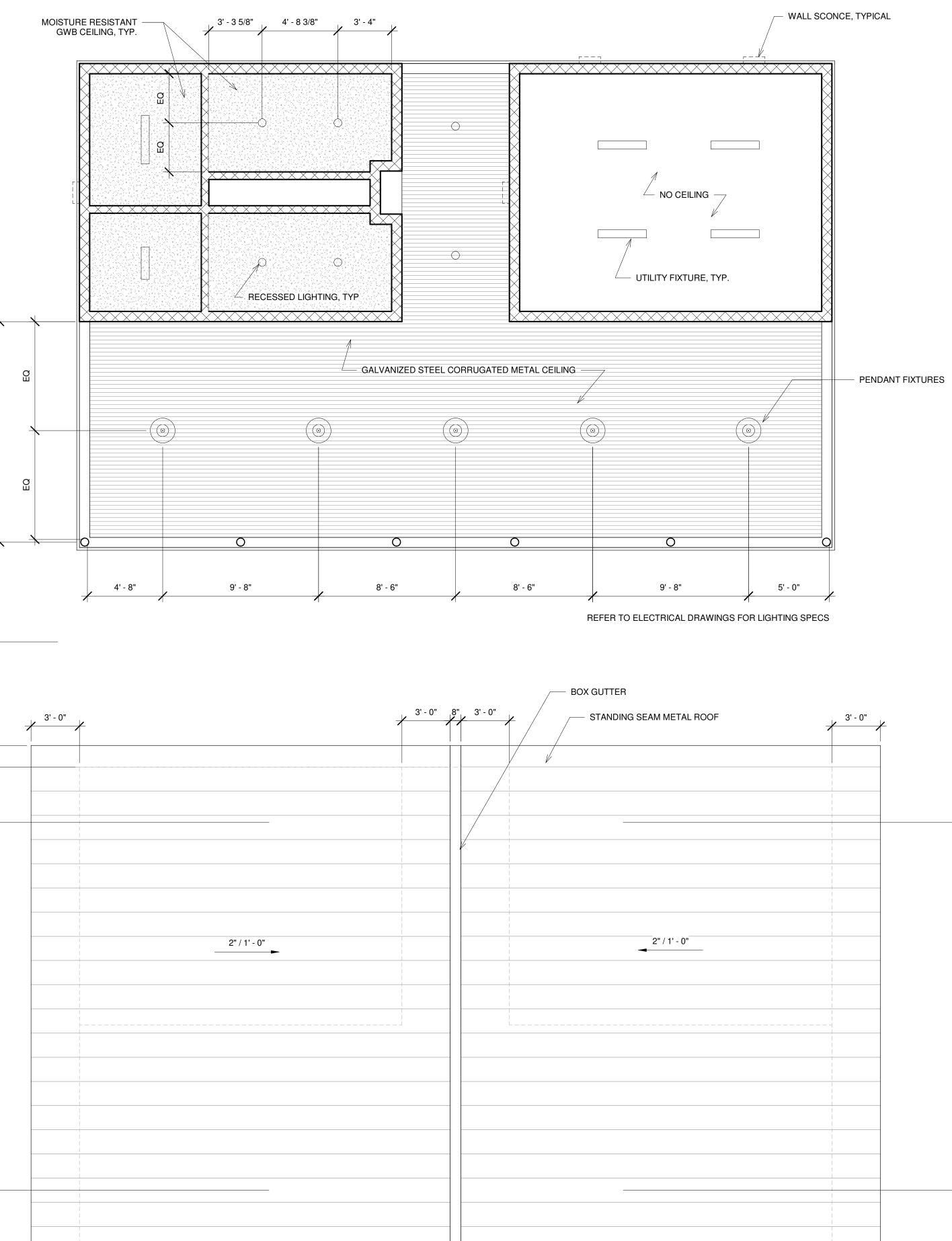
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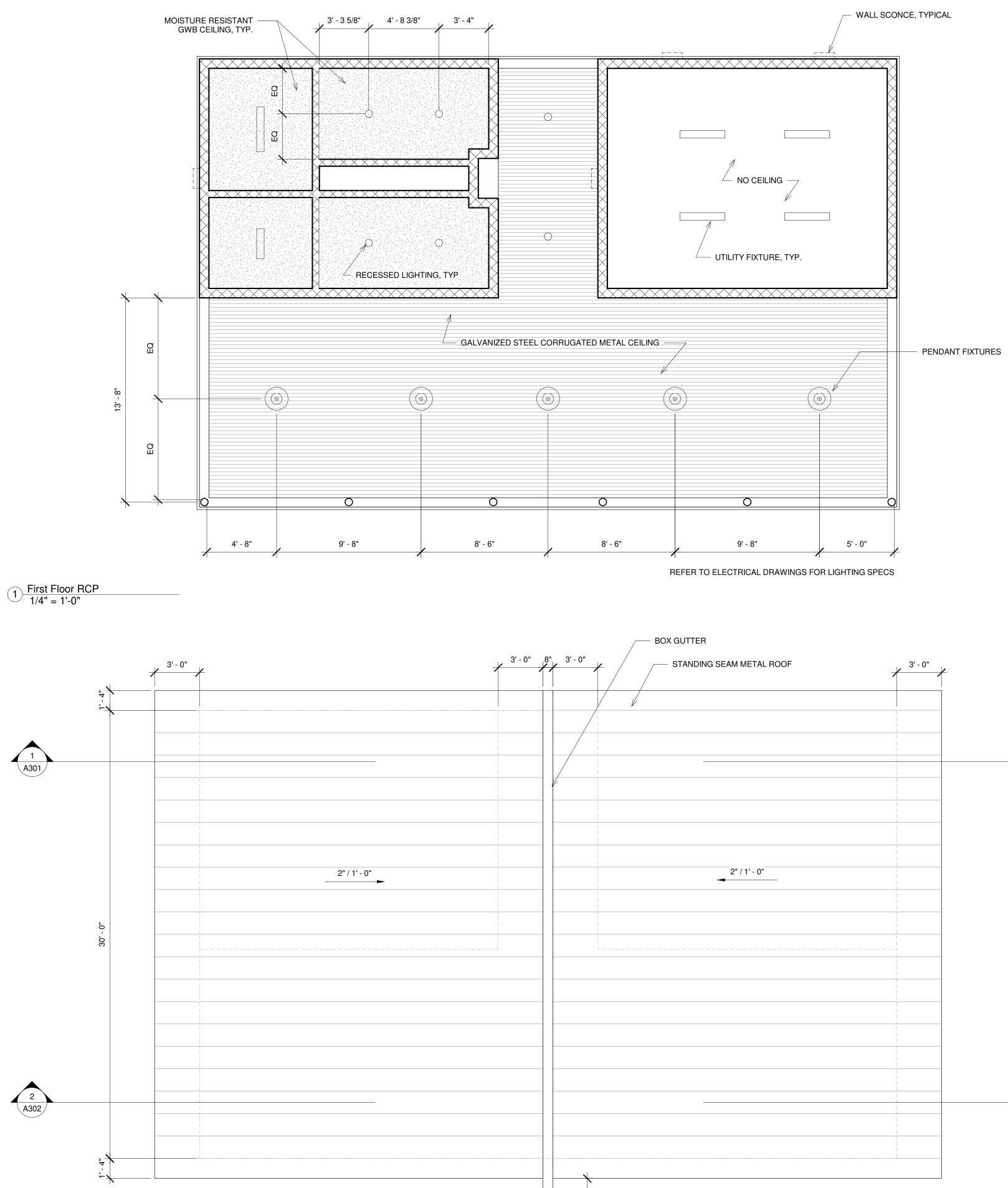
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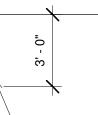


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2 Roof Plan 1/4" = 1'-0"



EXTENDED GUTTER

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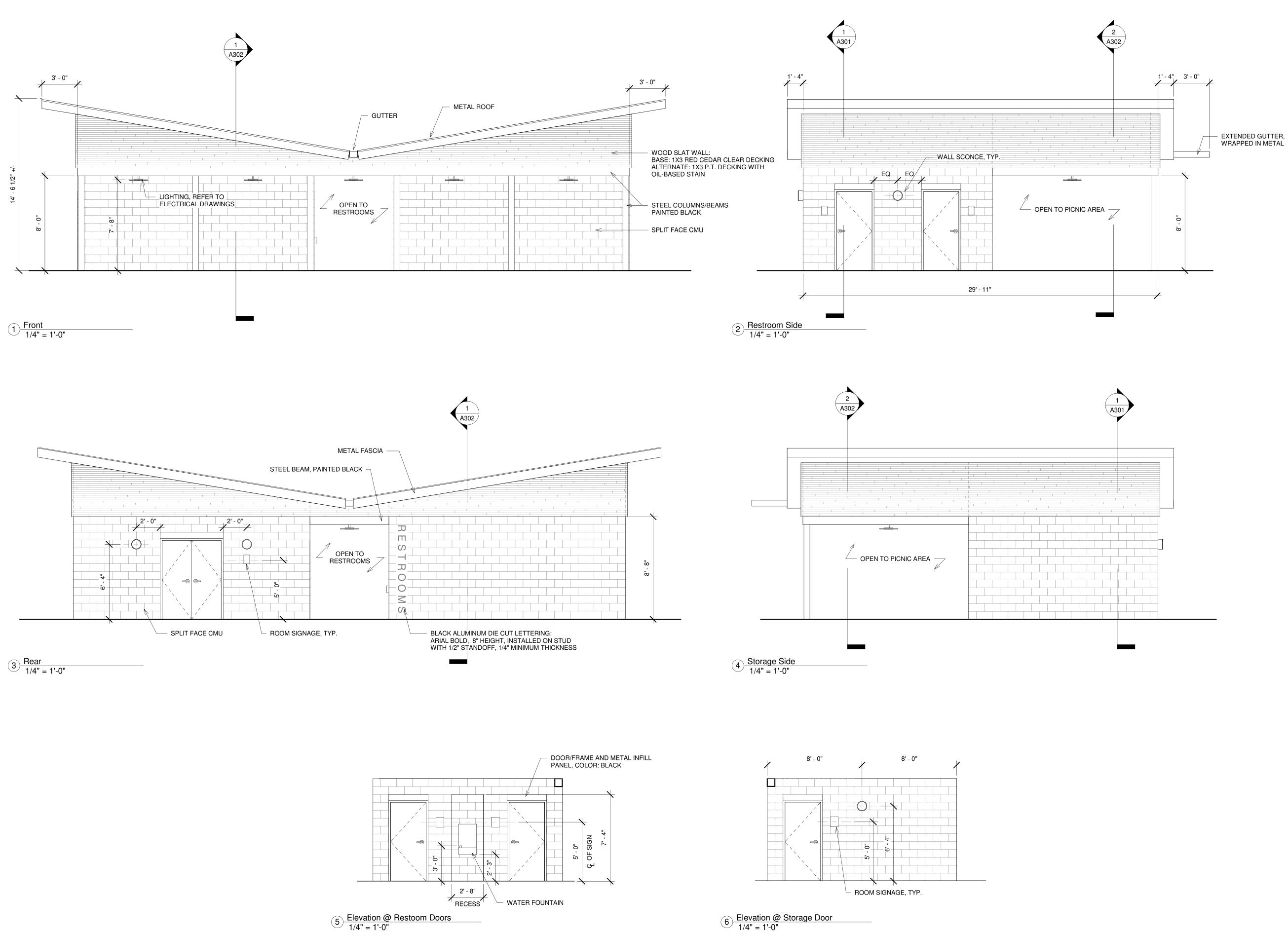
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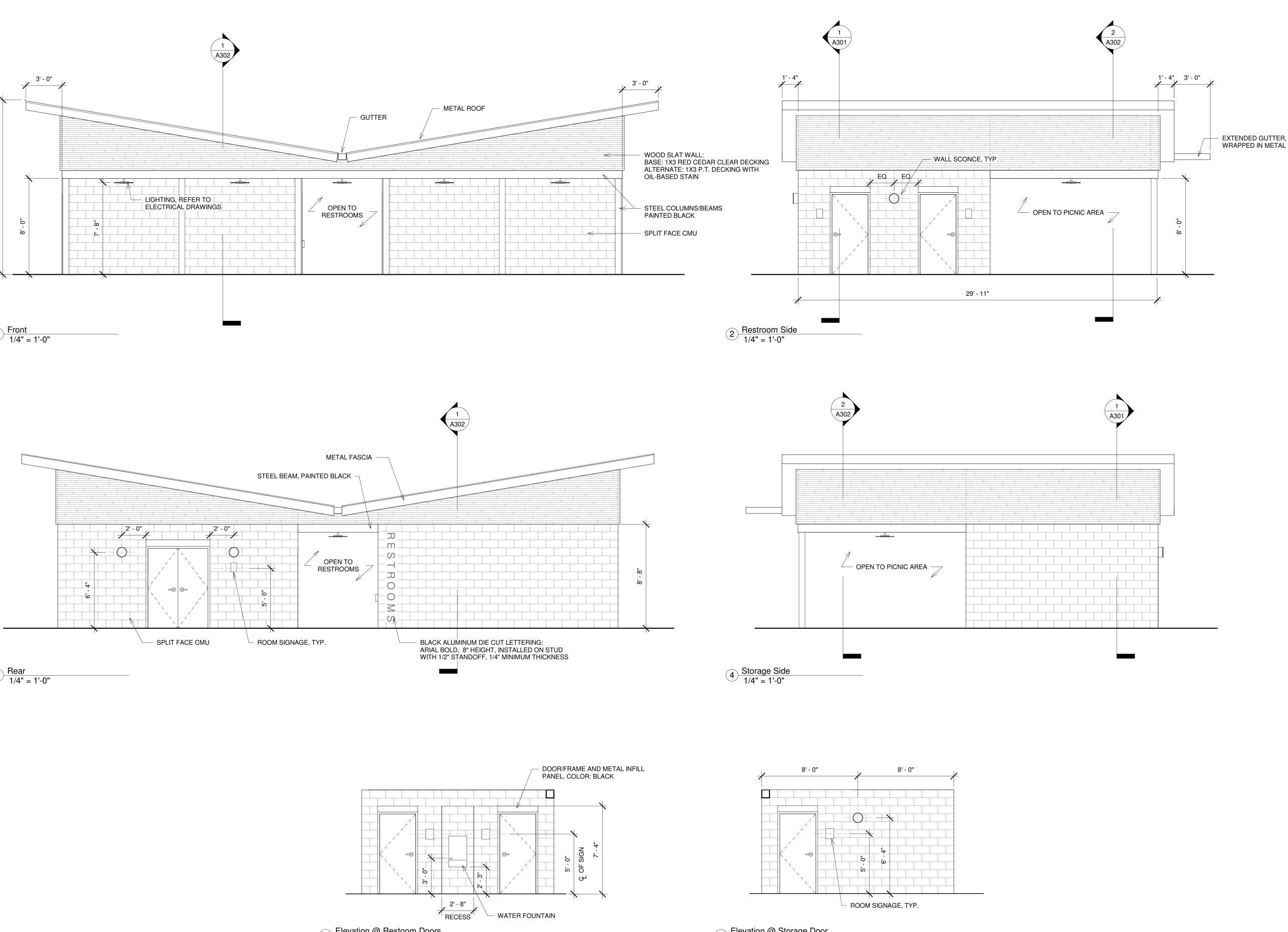
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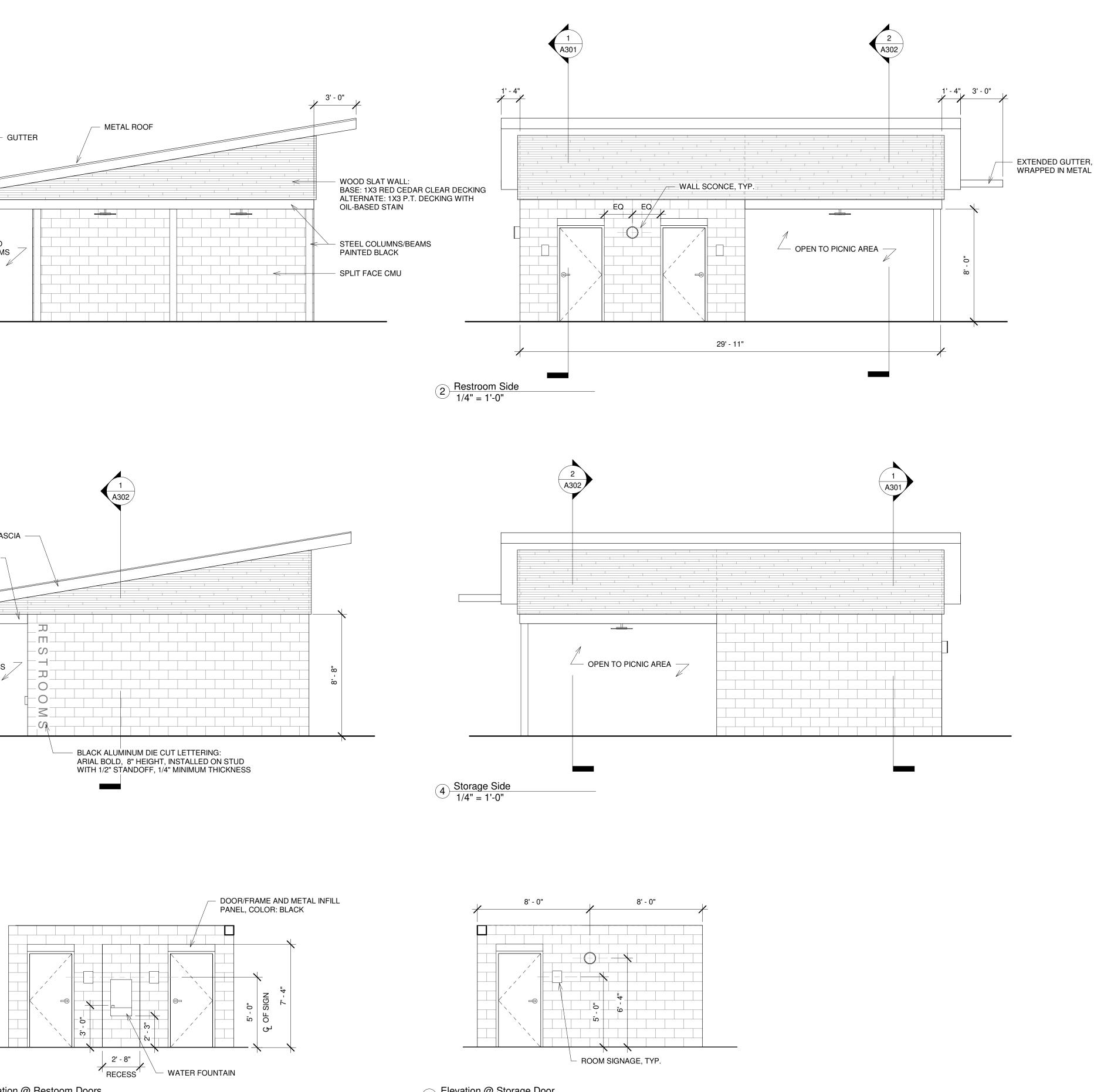
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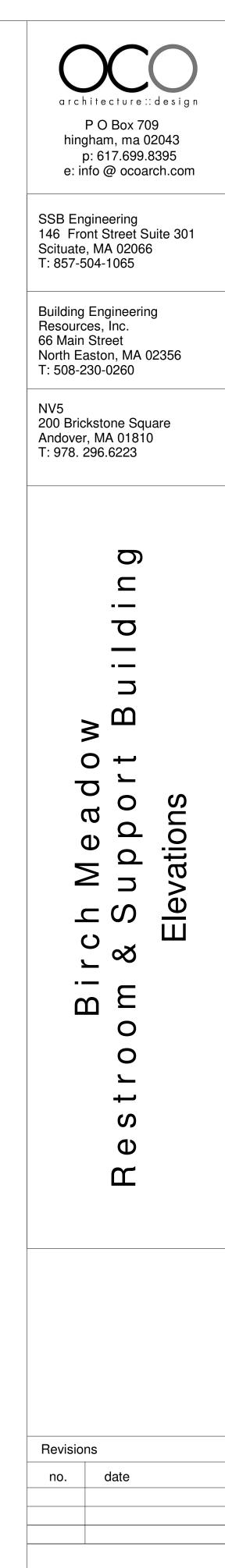
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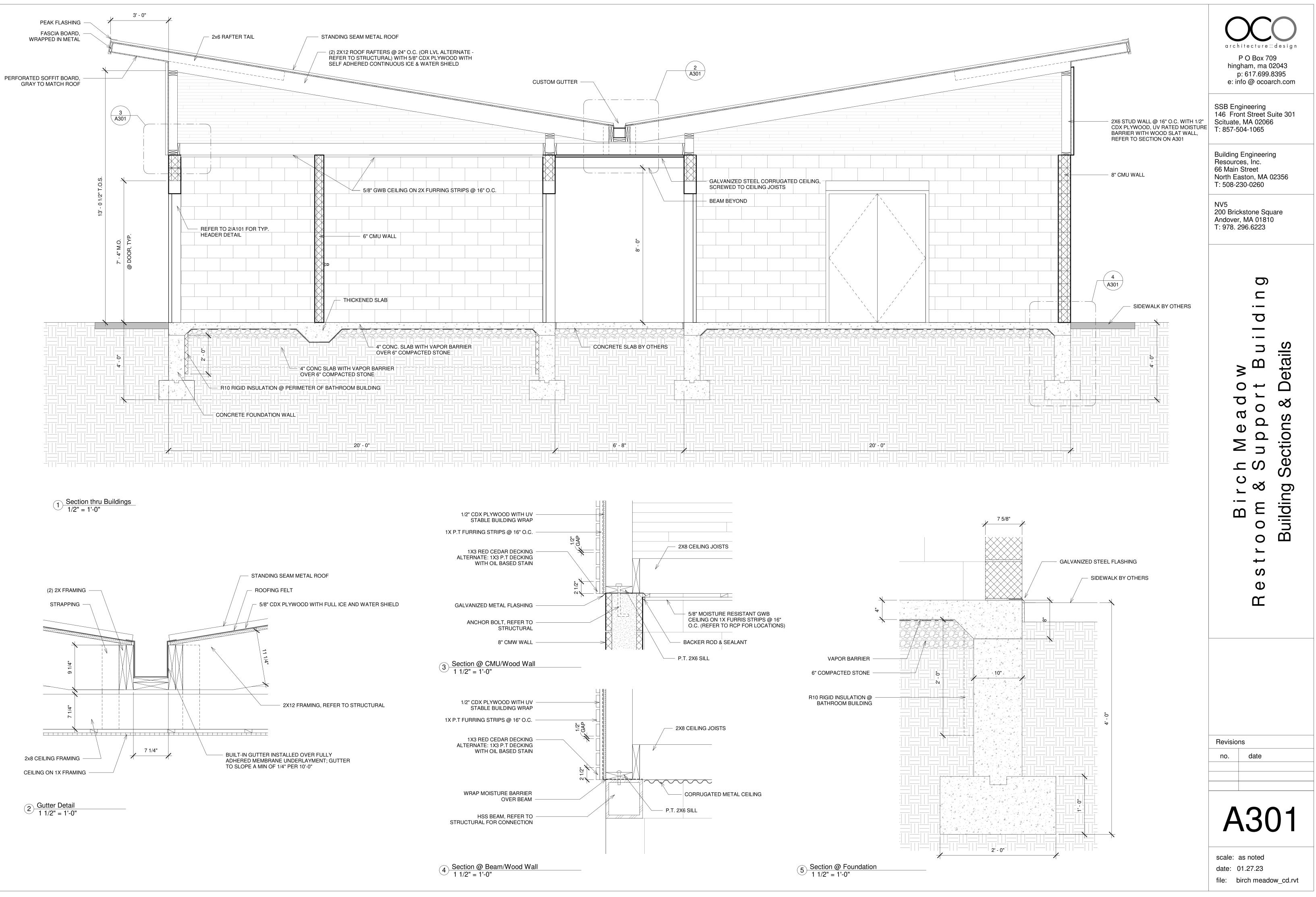


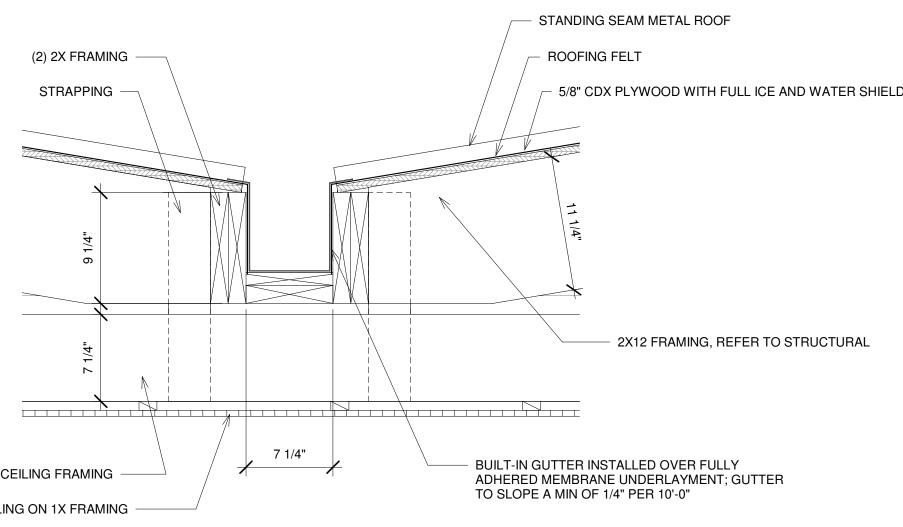
5 Elevation @ Restoom Doors 1/4" = 1'-0"

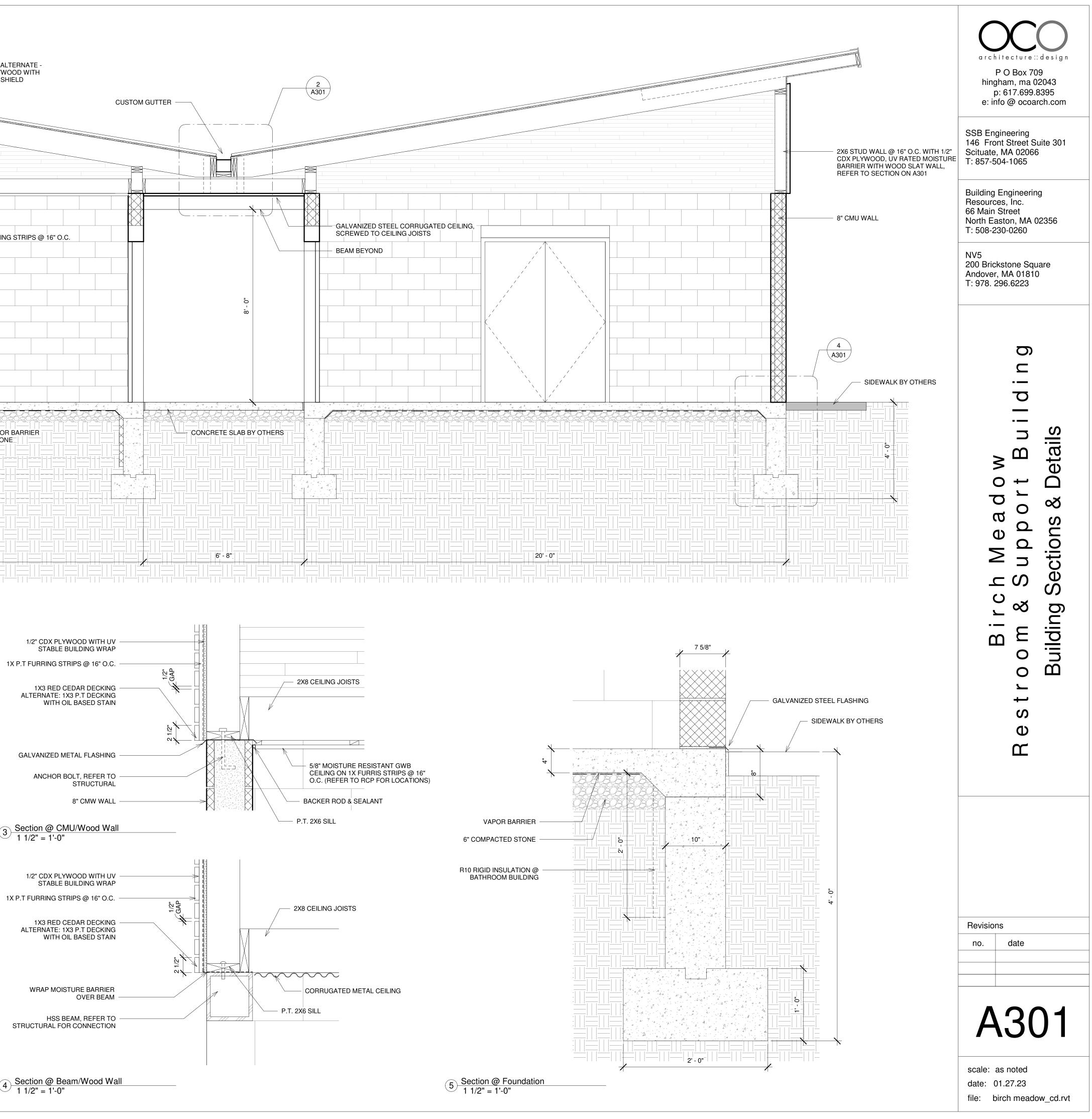


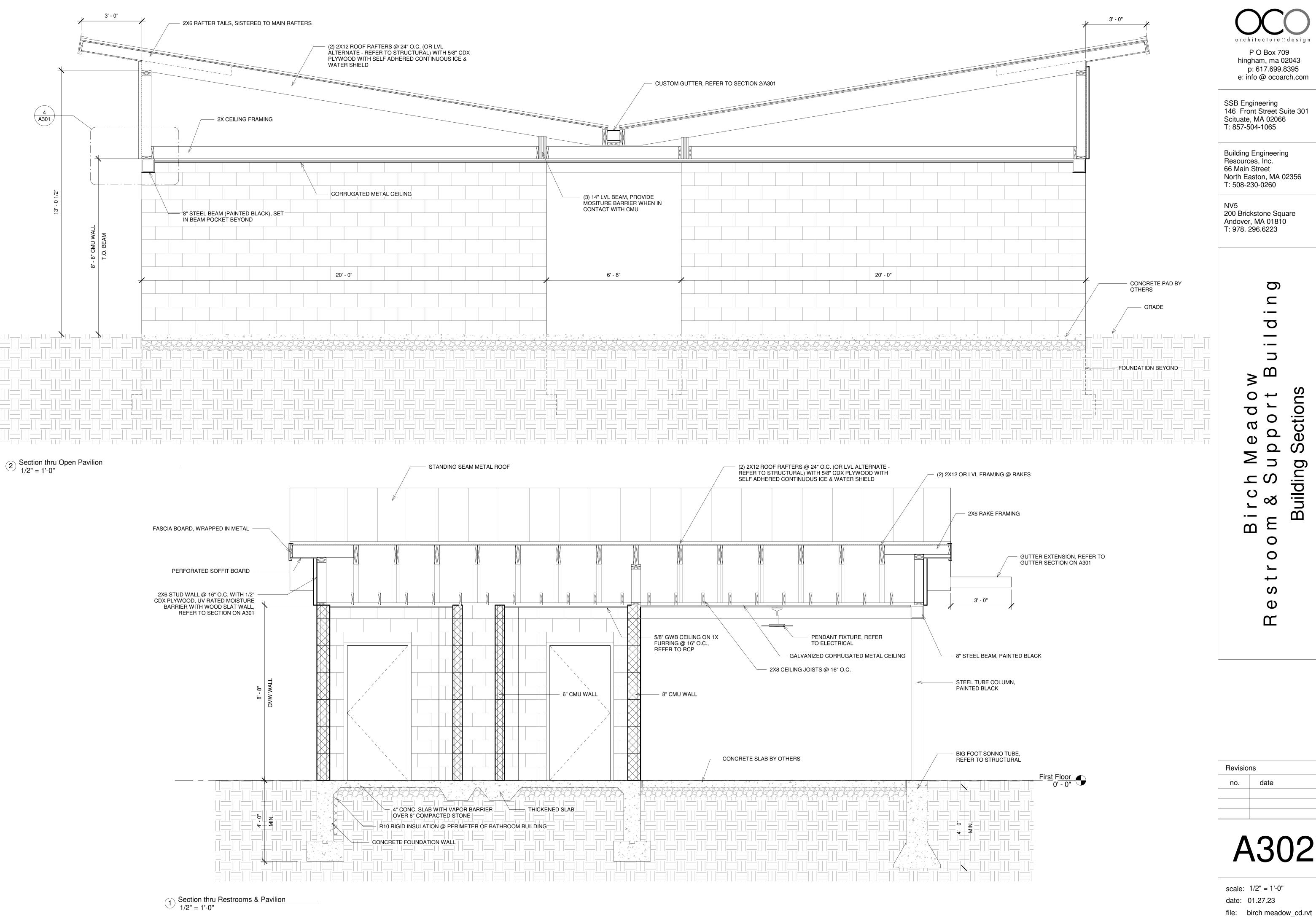


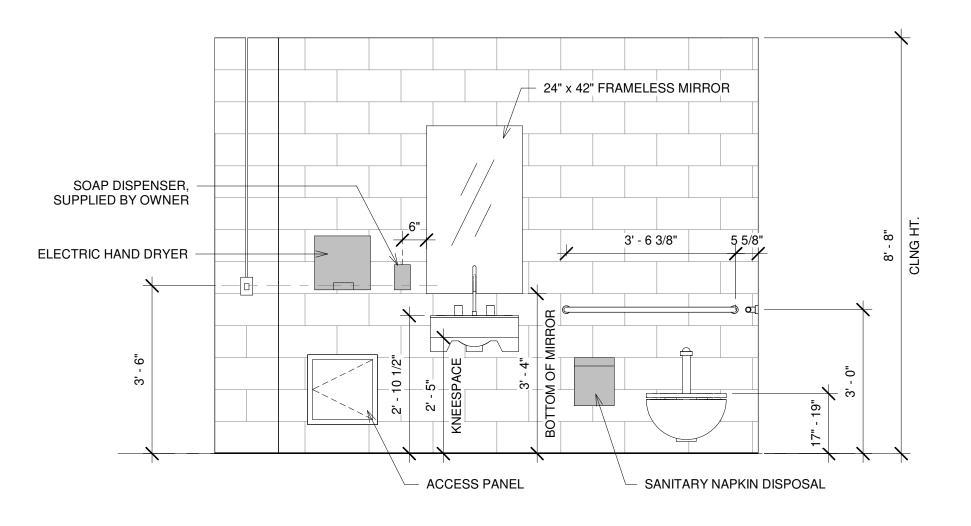
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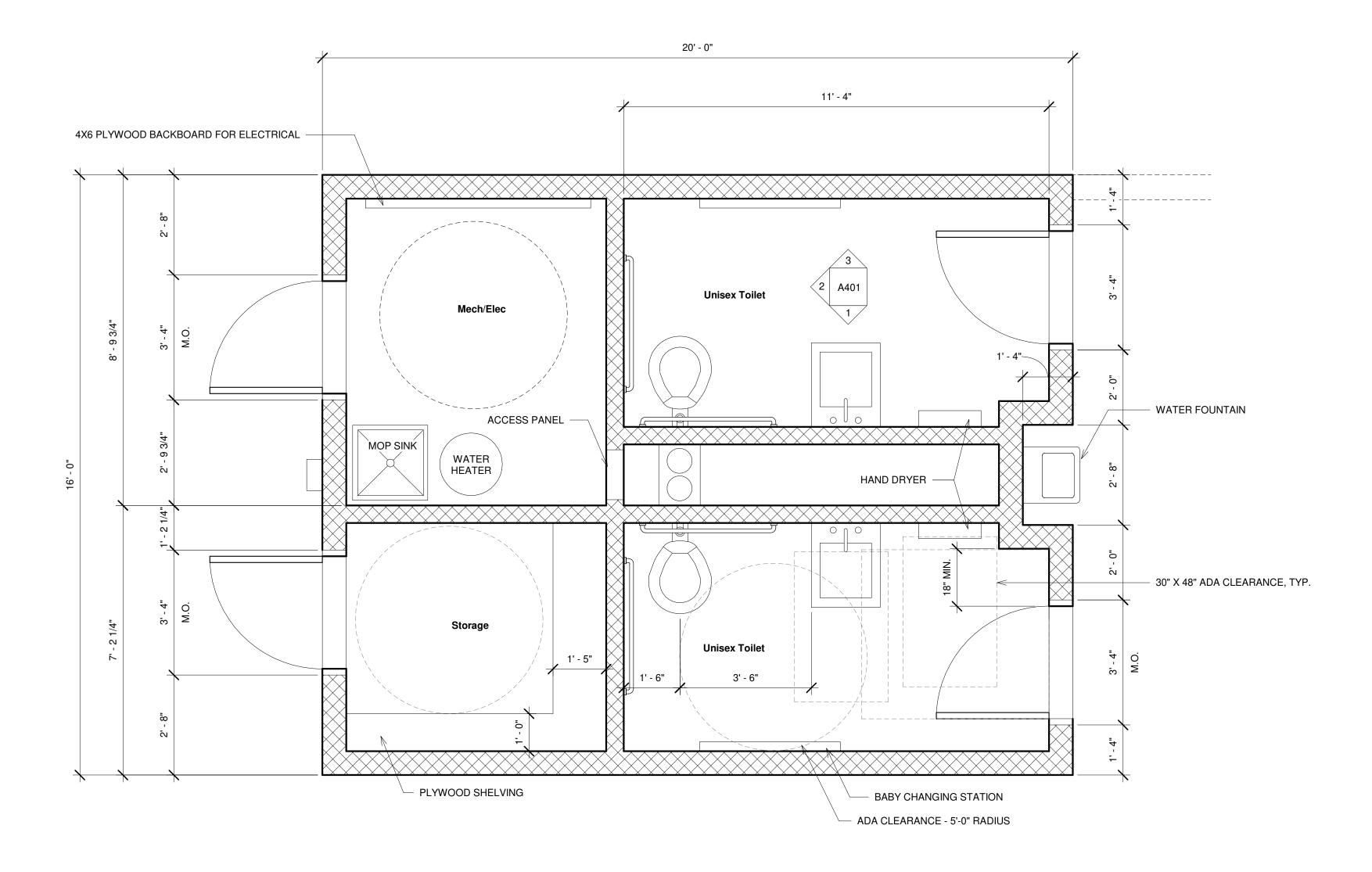




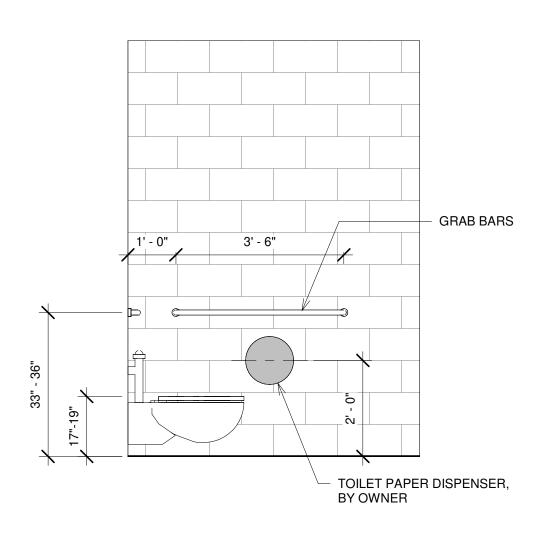


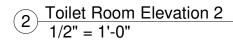


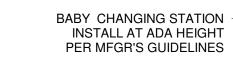
 $1 \frac{\text{Toilet Room Elevation 1}}{1/2" = 1'-0"}$

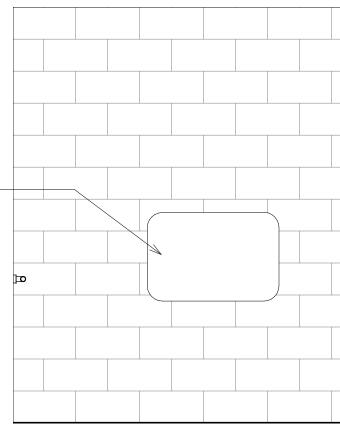


4 Enlarged Toilet Room Plan 1/2" = 1'-0"









 $\underbrace{\textbf{3}}_{1/2"} = 1'-0"$

TOI	TOILET ACCESSORIES SCHEDULE				
NO.	ITEM/ACCESSORY	MANUFACTURER	DESCRIPTION		
T-1	HAND DRYER	BOBRICK B-7128	QUIET DRY SURFACE-MOUNTED ADA DRYER		
T-2	CHANGING STATION	KOALA KARE KB200	HORIZONTAL WALL MOUNTED BABY CHANGING STATION		
T-3	GRAB BARS	BOBRICK B-5806.99x42	STRAIGHT GRAB BAR 1-1/4" DIA x 42" PEENED GRIP		
T-4	HOOK	BOBRICK B-212	CLOTHES HOOK WITH BUMPER		
T-5	SANITARY NAPKIN DISPOSAL	BOBRICK B-270	CONTURA SERIES SURFACE MOUNTED		
T-6	MIRROR	ASI 8287	FRAMELESS 1/4" POLISHED PLATE GLASS/SURFACE MOUNT		

NOTES: ACCESSORIES/MANUFACTURERS MAY BE SUBSTITUTED, APPROVAL BY ARCHITECT



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> Ο S ation: •— С - ----Ð Ш Ш \geq ∞ 0 -----Plan σ Ο σ 0 Φ Room Q \geq S S C oilet Š • -----Ε Ш Enlarged Ο 0 **+--**S Φ \square

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scale: 1/2" = 1'-0" date: 01.27.23 file: birch meadow_cd.rvt

STRUCTURAL DESIGN DRAWINGS

DESIGNER .

OCO ARCHITECTURE DESIGN (PAULETTE) P.O. BOX 709, Hingham, MA 02043

GENERAL STRUCTURAL NOTES:

- 1. DESIGN CODES AND CRITERIA: THE MINIMUM STRUCTURAL DESIGN SHALL BE IN ACCORDANCE WITH THE 9TH EDITION MASSACHUSETTS STATE BUILDING CODE. IBC 2015, ASCE 7-10, AND ANSI/AWS D1.1 STRUCTURAL WELDING CODE - STEEL.
- 2. IN ADDITION TO THE BUILDING DEAD LOADS, THE STRUCTURE IS DESIGNED FOR THE FOLLOWING LOADS:

CITY/TOWN OF DESIGN CRITERIA:	READING, MA
LIVE LOAD	
ASSEMBLY AREAS (OTHER)	100 PSF
SNOW LOAD	
GROUND SNOW LOAD Pg	50 PSF
FLAT ROOF SNOW LOAD Pf	30 PSF
SNOW EXPOSURE FACTOR Ce	1.1
THERMAL COEFFICIENT Ct	1.0
SNOW LOAD IMPORTANCE I	1.0
WIND LOAD	
BASIC WIND SPEED V	126 MPH (RISK CATEGORY II)
WIND IMPORTANCE FACTOR IW	1.0
WIND EXPOSURE CATEGORY	С
SEISMIC LOAD	
SEISMIC DESIGN CATEGORY	В
SHORT PERIOD SPECTRAL ACCELERATION Ss	0.234
1-SECOND PERIOD SPECTRAL ACCELERATION S1	0.072
IMPORTANCE FACTOR I	1.0
SITE CLASS	D
BASIC SEISMIC FORCE RESISTING SYSTEM: ASCE	7-10
LONGITUDINAL:	ORDINARY REINFORCED MASONRY
TRANSVERSE:	ORDINARY REINFORCED MASONRY

3. LIVE LOAD REDUCTION SHALL BE IN ACCORDANCE WITH ASCE 7-10.

CAST IN PLACE CONCRETE

- PROPORTIONING OF REINFORCED CONCRETE MEMBERS AND THEIR STEEL REINFORCEMENT IS BASED ON AN ULTIMATE STRENGTH DESIGN IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14).
- 2. MINIMUM 28 DAY COMPRESSIVE STRENGTHS F'c (28-DAYS)

FOUNDATION BEAMS		4,000 psi
SLAB-ON-GRADE		4,000 psi
MEP DUCT BANKS, BLOCKI	NG & ENCASEMENTS	3,000 psi
ALL OTHER CONCRETE		4,000 psi
ALL OTHER CONCRETE		4,000

- ALL CONCRETE SHALL BE CLASSIFIED AS NORMAL WEIGHT, EXCEPT AS NOTED, WITH A UNIT WEIGHT OF 145 pcf. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 4 INCHES AND AIR ENTRAPMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION OR HEAT IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN ACCORDANCE WITH THE ACI.
- 3. ALL FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED 75% OF ITS 28-DAY COMPRESSIVE STRENGTH (SEE SPECIFICATIONS).
- 4. ALL CONSTRUCTION AND CONTROL JOINTS SHOWN ON PLANS. SAW CUT TO A DEPTH OF $\frac{3}{4}$ - INCH. SEE PLANS FOR LAYOUT. FILL ALL JOINT WITH SONNEBORN SL2 OR DOWN CORNING SL SELF-LEVELING SEALANT.
- 5. DO NOT BACKFILL EXTERIOR WALLS ANY HIGHER THAN 3 FEET ABOVE THE TOP OF FOOTING UNTIL PERMANENT STRUCTURAL SUPPORTS (FRAMED FLOORS AND SLABS) ARE IN PLACE. BRACE ALL WALLS AND GRADE BEAMS DURING BACKFILLING, IF NECESSARY.
- 6. ALL EXPOSED EDGES SHALL BE SQUARE UNLESS NOTED OTHERWISE.
- 7. ALL KEYS SHALL BE 2"x4" WITH BEVELED SIDES, UNLESS NOTED OTHERWISE.
- 8. NO HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE IN BEAMS, UNLESS SHOWN SPECIFICALLY ON DRAWINGS. FOR VERTICAL CONSTRUCTION JOINTS, REFER TO ACI 318.
- 9. ALL REINFORCING WILL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS. REFER TO TYPICAL DETAILS.
- 10. CAST SLABS AND BEAMS MONOLITHICALLY, UNLESS OTHERWISE INDICATED.
- 11. NOT ALL OPENINGS THROUGH CONCRETE SLABS ARE SHOWN ON STRUCTURAL DRAWINGS. OPENINGS INDICATED, OR ANY ADDITIONAL OPENINGS OR INSERTS REQUIRED, MUST BE VERIFIED WITH RESPECTIVE TRADES BEFORE POURING OF CONCRETE. NO CONCRETE SHALL BE CAST PRIOR TO THE DESIGNER'S REVIEW AND APPROVAL OF THE COORDINATED SUBMITTAL TO INCLUDE REINFORCING, SLAB OPENINGS AND EMBEDDED ITEMS.
- 12. USE NONSHRINK, NONMETALLIC GROUT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 8,000 psi, WHERE INDICATED ON THE PLANS AND IN THE SPECIFICATIONS.
- 13. PROVIDE SEALANT JOINTS FOR ALL EXPOSED TO VIEW CONSTRUCTION JOINTS, CONTROL JOINTS AND SHEAR KEYS.
- 14. ALL CONCRETE SHALL BE CONTROLLED CONCRETE, MIXED, AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY.

- 15. ALL CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN AN ENTRAINMENT ADMIXTURE.
- 16. DAMP PROOF ALL FOUNDATION WALLS BELOW GRADE, OTHER THAN WALLS.

CAST IN PLACE CONCRETE REINFORCING:

- 1. SHOP DRAWINGS AND SCHEDULES OF REINFORCING STEEL SHALL BE PREF BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL TO COMMENCEMENT OF THAT PORTION OF THE WORK. ALL ACCESSORIES BE SHOWN ON THE SHOP DRAWINGS.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 OR A706 GRADE 60 SHALL BE RAW STEEL UON
- 3. REINFORCE ALL SLABS AS FOLLOWS UNLESS OTHERWISE NOTED, FURNISH IN FLAT SHEETS:

SLABS ON METAL DECK: 4x4-W2.9xW2.9 WWF INTERIOR SLABS ON GROUND: 6x6-W1.4xW1.4 WWF

- 4. THE FOLLOWING MINIMUM CLEAR CONCRETE COVER SHALL BE PROV UNLESS NOTED OTHERWISE ON THE DRAWINGS:
 - CONCRETE CAST AGAINST EARTH, ALL BAR SIZES CONCRETE EXPOSED TO EARTH OR WEATHER, ALL BAR SIZES
- 5. UNLESS NOTED OTHERWISE, BARS SHALL BE CONTINUOUS AND SHALL CONTINUOUSLY AROUND CORNERS. BARS SHALL HAVE STANDARD HOO DISCONTINUOUS ENDS.
- 6. SPLICES SHALL GENERALLY OCCUR AT MID-SPAN FOR TOP AND MIDDLE AND AT SUPPORT FOR BOTTOM BARS AND SHALL BE STAGGERED. PRI CLASS B SPLICES FOR ALL CONTINUOUS REINFORCEMENT, UNLESS OTHER NOTED.
- BARS SHALL NOT BE CUT OR OMITTED FOR SLEEVE OR DUCT OPENIN FLOORS, BARS MAY BE MOVED LATERALLY WITHOUT CHANGING THE DIST FROM THE FACE OF CONCRETE. BEND NO BARS IN FIELD WITHOUT APPROV THE ENGINEER.
- 8. ALL REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 MA OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCT PROVIDE BAR SUPPORTS, SPACERS, AND ACCESSORIES RECOMMENDED ACI DETAILING MANUAL, PUBLICATION SP-66. ALL REINFORCEMENT DETAI LAP SPLICES, AND EMBEDMENTS SHALL CONFORM TO THIS MANUAL ACCESSORIES, SUCH AS SLAB BOLSTERS AND BEAM AND SLAB CHAIF CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC-COATED.
- 9. SET AND TIE ALL REINFORCEMENT BEFORE PLACING CONCRETE. SET DOWELS AND REINFORCEMENT INTO WET CONCRETE IS PROHIBITED.
- 10. MINIMUM ANCHORAGE SPLICE REOUIREMENTS FOR REINFORCING BARS, TEMPERATURE REINFORCEMENT IN ALL CONCRETE SLABS SHALL BE ACCOR TO ACI 318, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 11. NO CONCRETE SHALL BE CAST BEFORE REVIEW AND APPROVAL OF REINFORCING AND EMBEDDED ITEMS HAVE BEEN OBTAINED FROM ENGINEER.
- 12. ANY ADDITIONAL DRILLING OR CORING SHALL NOT DAMAGE REINFOR BARS.
- 13. SET ANCHOR BOLTS AND EMBEDDED PLATES REQUIRED FOR CONNECTION WORK BY OTHERS.

FIBER REINFORCED CONCRETE (STEEL FIBERS): 1. SHALL CONFORM TO ASTM C1116/C116M, TYPE I CONTAINING STEEL FI

- MEETING THE CRITERIA OF ASTM 820 TYPE I, II, OR V.
- FIBERS TO HAVE CONTINUOUS, HOOKED END, OR FLAT END DEFORMATION OUTLINED IN ASTM A820.
- 3. SHALL HAVE A LENGTH OF 1.625" PLUS OR MINUS 10%.
- 4. DOSE = SEE PLANS. MINIMUM FOR CONCRETE ON METAL DECK IS 25 LB/C OR AS OTHERWISE SPECIFIED BY MANUFACTURER.

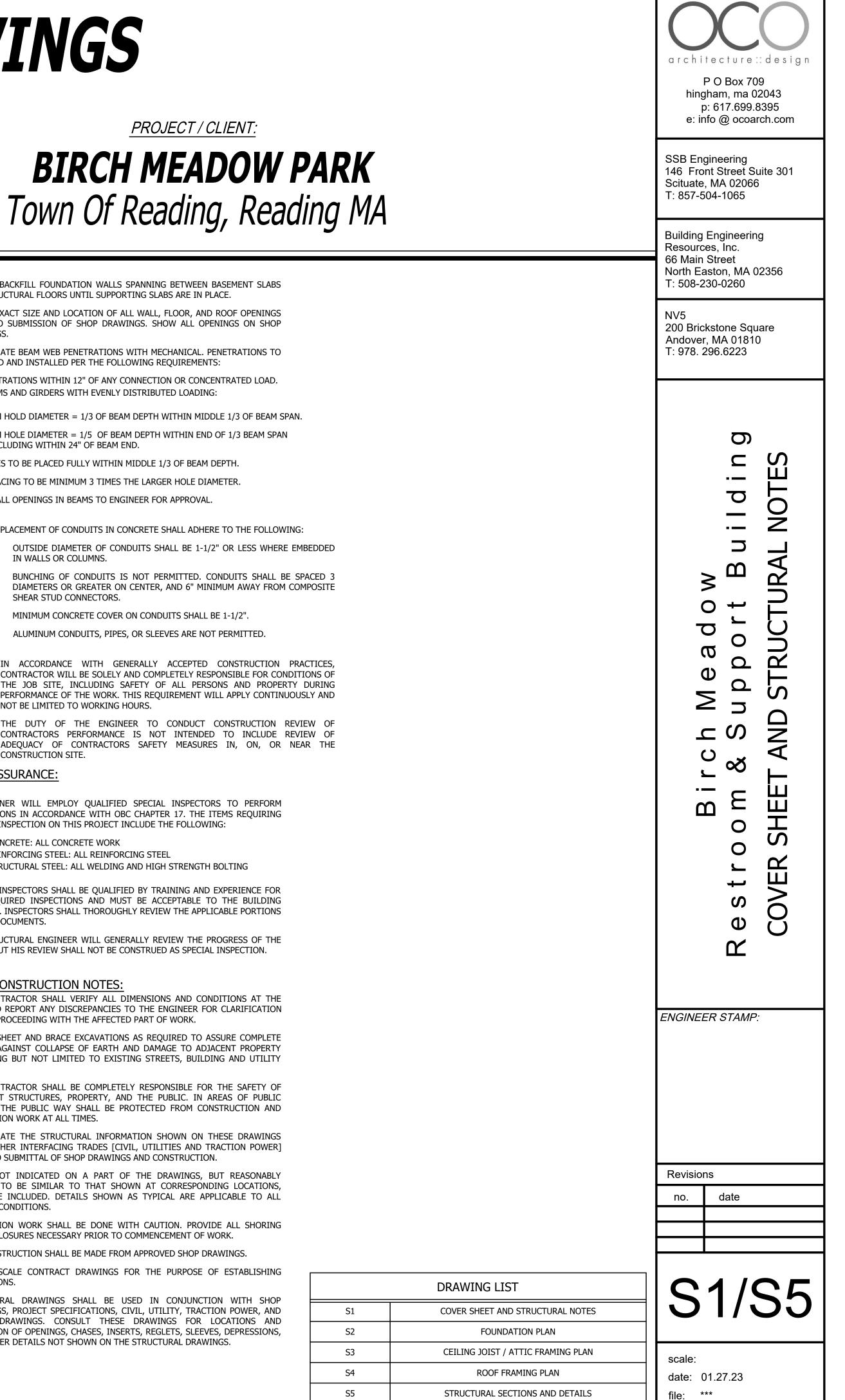
FIBER REINFORCED CONCRETE (SYNTHETIC MACROFIBE FIBERS):

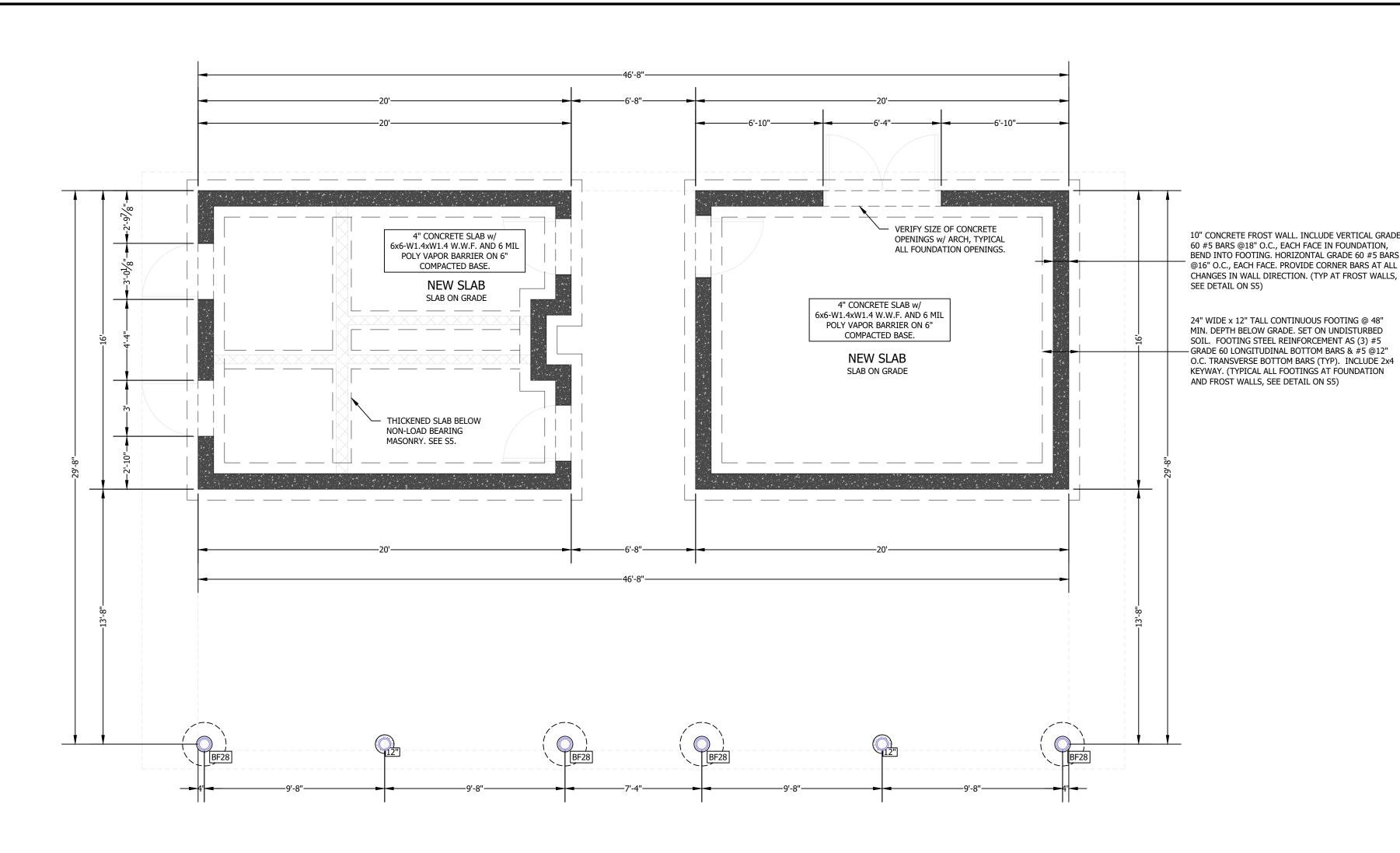
- 1. SHALL CONFORM TO ASTM C1116/C116M, TYPE III CONTAINING SYNTH FIBERS MEETING THE CRITERIA OF ASTM D7508/D7508M FOR MACRO-CHC STRANDS OR HYBRID CHOPPED STRANDS.
- 2. SHALL HAVE A LENGTH OF 1.5" PLUS OR MINUS 10% WITH A MINIMUM AS RATIO (LENGTH/EQUIVALENT DIAMETER) OF 50.
- DOSE = SEE PLANS. MINIMUM FOR CONCRETE ON METAL DECK IS 4 LB/CU ` AS OTHERWISE SPECIFIED BY MANUFACTURER.

TIMBER FRAMING:

- 1. FOR ROUGH WINDOW & DOOR (BOTH INTERIOR & EXTERIOR) OPENING 3-FEET USE 2x6 HEADER BEAM; FOR 3- TO 6-FOOT OPENINGS USE 2x8 HE BEAMS; AND, FROM 6- TO 8-FOOT OPENINGS USE 2x10 HEADER BEAMS DOUBLES FOR 2x4 WALLS & TRIPLES FOR 2x6 WALLS, EXCEPT AS OTHERWISE ON THE PLANS OR SPECIFICATIONS. IF LVLs ARE SPECIFIED O PLANS, PROVIDE SOLID 4x4 POST SUPPORTS FOR DBL HEADERS & SOLID 4 6x6 DFL #2 POSTS FOR TPL HEADERS OR AS OTHERWISE SPECIFIED ON PLAN. CONTINUE ALL STRUCTURAL POSTS DOWN TO FOUNDATION OR BELOW (SOLID BLOCK TO DROP BEAMS)..
- 2. ALL FRAMING LUMBER SHALL BE HEM-FIR GRADE #2 OR SPF (SPRUCE PIN GRADE #1 / #2 OR APPROVED EQUAL (UNLESS OTHERWISE SPECIFIED)

AN AIR		SHALL MEET THE REQUIREMENTS OF THE ASSOCIATION. MINIMUM TIMBER FRAMING M		6.	DO NOT BACKFILL FOUNDATION WALLS SPANNING BETWE AND STRUCTURAL FLOORS UNTIL SUPPORTING SLABS ARE 1
I FROST		ALLOWABLE BENDING STRESS (F _b): ALLOWABLE COMPRESSION STRESS (Fc) MODULUS OF ELASTICITY (E):	875 PSI MIN. 1,150 PSI MIN. 1,400,000 PSI MIN.	7.	VERIFY EXACT SIZE AND LOCATION OF ALL WALL, FLOOR, PRIOR TO SUBMISSION OF SHOP DRAWINGS. SHOW ALL DRAWINGS.
REPARED L PRIOR		OTHER FRAMING MATERIAL FOR INTERIOR NO ONLY UPON APPROVAL OF THE ENGINEER.	ON-LOAD BEARING STUDS MAY BE SUBSTITUTED	8.	COORDINATE BEAM WEB PENETRATIONS WITH MECHANICA BE ROUND AND INSTALLED PER THE FOLLOWING REQUIREN
ES MUST	3.	ALL EXTERIOR FRAMING SHALL BE PRES SOUTHERN YELLOW PINE GRADE #2.	SSURE TREATED (CCA TREATED)		NO PENETRATIONS WITHIN 12" OF ANY CONNECTION OR CO FOR BEAMS AND GIRDERS WITH EVENLY DISTRIBUTED LOA
60 AND	4.		VS:		MAXIMUM HOLD DIAMETER = $1/3$ OF BEAM DEPTH WITHIN
SH WWF			/ISE NOTED USING LVLs AND CONVENTIONAL PIKED TOGETHER WITH 2-10D NAILS AT 12" O.C.		MAXIMUM HOLE DIAMETER = 1/5 OF BEAM DEPTH WITHIN EXCLUDING WITHIN 24" OF BEAM END.
			ARE TO BE SPIKED TOGETHER WITH THREE (3) 12" O.C. OR AS OTHERWISE NOTED ON THE BY THE MANUFACTURER.		ALL HOLES TO BE PLACED FULLY WITHIN MIDDLE 1/3 OF BE HOLE SPACING TO BE MINIMUM 3 TIMES THE LARGER HOLE
ROVIDED	5.	USE FULLY NAILED METAL CONNECTORS EQUAL): JOIST OR BEAM HANGERS WHEN ANOTHER JOIST OR BEAM MEMBER. PROVIDE	(TECO, SIMPSON; OR APPROVED JOISTS OR BEAMS FRAME INTO		SUBMIT ALL OPENINGS IN BEAMS TO ENGINEER FOR APPRO
3"	6	ALL POSTS. ALL FRAMING IN THE BUILDING MUST BE	FIRE RETARDANT TREATED PER		PLACEMENT OF CONDUITS IN CONCRETE SHALL AI OUTSIDE DIAMETER OF CONDUITS SHALL BE
2"		SECTION 603.1 OF THE CURRENT IBC.			IN WALLS OR COLUMNS.
ALL RUN DOKS AT		RUCTURAL STEEL: MATERIAL			BUNCHING OF CONDUITS IS NOT PERMITTED DIAMETERS OR GREATER ON CENTER, AND 6" SHEAR STUD CONNECTORS.
LE BARS PROVIDE			STM A-992 (Fy 50 KSI) STM A-36 (Fy 36 KSI)		MINIMUM CONCRETE COVER ON CONDUITS SH
IERWISE		STRUCTURAL TUBING, HSS SHAPES: A			ALUMINUM CONDUITS, PIPES, OR SLEEVES ARE
INGS IN ISTANCE			STM A-325, ¾" MIN DIA., UNO STM F-1554 (Fy 36 KSI), UNO		IN ACCORDANCE WITH GENERALLY ACCEPT CONTRACTOR WILL BE SOLELY AND COMPLETELY
OVAL OF	2.	FABRICATOR TO DESIGN CONNECTIONS NOT D	DETAILED:		THE JOB SITE, INCLUDING SAFETY OF ALL F PERFORMANCE OF THE WORK. THIS REQUIREMEN NOT BE LIMITED TO WORKING HOURS.
MANUAL CTURES. IN THE TAILING, AL. ALL		THE PROJECT SPECIFICATIONS, THE STEEL BUILDINGS, THE AISC MANUA	ED BY THE FABRICATOR IN ACCORDANCE WITH E AISC LRFD SPECIFICATIONS FOR STRUCTURAL L, AND THE STRUCTURAL STEEL FRAMING PLANS, AWINGS. SUBMIT PDF COPY TO THE ENGINEER		THE DUTY OF THE ENGINEER TO CONDU CONTRACTORS PERFORMANCE IS NOT INTER ADEQUACY OF CONTRACTORS SAFETY MEAS CONSTRUCTION SITE.
AIRS IN		CONNECTION CONFIGURATIONS INI	DICATED ON THE PLANS, NOTES AND DETAILS	QUA	ALITY ASSURANCE:
SETTING RS, AND		STIFFENERS, BRACES, ETC. MUS ⁻ ADDITIONAL DESIGN AND D	T. ITEMS SPECIFICALLY INDICATED: WELDS, T BE PROVIDED AT MINIMUM AS SHOWN. ETAILING OF CONNECTIONS, INCLUDING NESS, HOLES, CUTS, COPES AND THE EFFECTS OF	1.	THE OWNER WILL EMPLOY QUALIFIED SPECIAL INSPE INSPECTIONS IN ACCORDANCE WITH OBC CHAPTER 17. T SPECIAL INSPECTION ON THIS PROJECT INCLUDE THE FOLL
CORDING OF THE DM THE		 UNLESS SPECIFIC REACTIONS, M INDICATED, DESIGN BEAM CONNEC UNIFORM LOAD THE BEAM CAN SU 	OMENTS, SHEARS, AND AXIAL FORCES ARE TIONS FOR REACTIONS DUE TO THE MAXIMUM IPPORT AT ITS SPAN, AS SHOWN IN THE AISC		CONCRETE: ALL CONCRETE WORK REINFORCING STEEL: ALL REINFORCING STEEL STRUCTURAL STEEL: ALL WELDING AND HIGH STREN
FORCING		 MANUAL FOR SPECIFIED YIELD STREE WELD ALL STEEL CONTACT SURFACE CONTINUOUS 3/16-INCH MINIMUM W 	S (OTHER THAN BOLTED CONNECTIONS) WITH A	2.	SPECIAL INSPECTORS SHALL BE QUALIFIED BY TRAINING A THE REQUIRED INSPECTIONS AND MUST BE ACCEPTABL
			E AT THE BASE OF ALL TUBE AND PIPE COLUMNS.		OFFICIAL. INSPECTORS SHALL THOROUGHLY REVIEW THE A OF THE DOCUMENTS.
TION OF		 CONNECTION BOLTS TO BE ½" MIN PROVIDE A MINIMUM OF 2 BOLTS PE 	NIMUM DIAMETER HIGH STRENGTH ASTM A325. R CONNECTION.	3.	THE STRUCTURAL ENGINEER WILL GENERALLY REVIEW TH WORK, BUT HIS REVIEW SHALL NOT BE CONSTRUED AS SPE
		• USE $\frac{1}{2}$ " MINIMUM CAP PLATE OR BAS WITH A $\frac{3}{16}$ " FILLET WELD, OR AS OT	SE PLATES FULLY WELDED AROUND AT COLUMNS HERWISE SPECIFIED ON THE PLANS.	GEN	NERAL CONSTRUCTION NOTES:
. FIBERS IONS AS	3.	PRIME PAINTING IS REQUIRED FOR ALL STEE COMPLETED BUILDING AND IS NOT SCHEDU INCLUDING AREAS OF EXPOSED STRUCTU DRAWINGS.	LED TO RECEIVE FIRE PROOFING,	1.	THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF WORK
B/CU YD	4.	ALL EXTERIOR WALL LINTELS, LEDGE ANGL ABOVE THE ROOF LINE AND STEEL EXPOSED T GALVANIZED, UNLESS NOTED OTHERWISE.		2.	SHORE, SHEET AND BRACE EXCAVATIONS AS REQUIRED T SAFETY AGAINST COLLAPSE OF EARTH AND DAMAGE TO INCLUDING BUT NOT LIMITED TO EXISTING STREETS, BU LINES.
<u>BERS - COURSE</u>	5.	BOLTED TO WEB @ 16" O.C. WITH TWO BOTTOM). CONNECT JOISTS TO BEAM WEB V	1/2" DIA A307 BOLTS (TOP AND WITH HANGERS. FOR STEEL DROP	3.	THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE ADJACENT STRUCTURES, PROPERTY, AND THE PUBLIC. I ACCESS, THE PUBLIC WAY SHALL BE PROTECTED FROM
NTHETIC CHOPPED		BEAMS OR ANY BEAMS WHERE FRAMING BEAF OF BEAM AT 24" O.C USING RECESSED PNEUMATIC PINS. FULLY NAIL EACH JOIST METAL CONNECTOR AT EVERY OTHER JOIST.	1/2" A307 CARRIAGE BOLTS OR	4.	DEMOLITION WORK AT ALL TIMES. COORDINATE THE STRUCTURAL INFORMATION SHOWN C WITH OTHER INTERFACING TRADES [CIVIL, UTILITIES AN
ASPECT	CO	ORDINATION AND CONSTRUCTION	:	5.	PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUC WORK NOT INDICATED ON A PART OF THE DRAWING IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESP
U YD OR	1.	FIELD VERIFY EXISTING DIMENSIONS AN FABRICATION PRIOR TO SUBMITTAL OF SHOP			SHALL BE INCLUDED. DETAILS SHOWN AS TYPICAL ARE SIMILAR CONDITIONS.
	2.	REFER TO ARCHITECTURAL AND MECHANIC EMBEDDED ITEMS, SLEEVES, FLOOR PITCHES,		6.	DEMOLITION WORK SHALL BE DONE WITH CAUTION. PR AND ENCLOSURES NECESSARY PRIOR TO COMMENCEMENT
g up to Header	3.	STRUCTURAL FRAMING PLANS ARE TYPICAL SHOWING BEAMS, WALLS, AND COLUMNS O	LY DRAWN AS REFLECTED PLANS		ALL CONSTRUCTION SHALL BE MADE FROM APPROVED SHO DO NO SCALE CONTRACT DRAWINGS FOR THE PURPOS
MS; AND NOTED ON THE Ax6 OR ON THE R BEAMS	4.	SHOWN. ALL FRAMING MEMBERS PROVIDED FOR SUPPORT BEAMS, LINTELS, ROOF OPENINGS, ONLY. SUBMIT MANUFACTURER'S DATA FOR STRUCTURAL ENGINEER PRIOR TO SUBMI VERIFICATION OR REDESIGN OF SUPPORTS.	ETC. ARE FOR BIDDING PURPOSES THE PROPOSED EQUIPMENT TO	9.	DIMENSIONS. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUND DRAWINGS, PROJECT SPECIFICATIONS, CIVIL, UTILITY, TR OTHER DRAWINGS. CONSULT THESE DRAWINGS FOR DIMENSION OF OPENINGS, CHASES, INSERTS, REGLETS, SL
INE FIR) D), AND	5.	BRACE ENTIRE STRUCTURE AS REQUIRED COMPLETE AND FUNCTIONING AS THE DESIGN			AND OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DR





FOUNDATION PLAN SCALE: 1⁄4 " = 1'-0"

FOUNDA	TION LEGEND
FOUNDATION FOOTING	$ \begin{array}{c} \hline 2 \\ \hline 2 \\ \hline 3 \\ \hline 8 \\ \hline 8 \\ \hline 8 \\ \hline 8 \\ \hline 2 \\ \hline 8 \\ 8 \\ \hline 8 \\ \hline 8 \\ 8 \\ 8 \\ \hline 8 \\ 8 \\ 8 \\ \hline 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\$
FOUNDATION WALL	
FROST WALL	PIER ABBREVIATIONS: BF20: 8" TUBE w/ BIGFOOT BF20 BASE. BF24: 10" TUBE w/ BIGFOOT BF24 BASE. BF28: 12" TUBE w/ BIGFOOT BF28 BASE
EXISTING FOUNDATION WALL	BF36: 12" TUBE W/ BIGFOOT BF36 BASE 12": 12" SONOTUBE
STRUCTURAL POST: STEEL HSS	NOT ALL PIER SIZES MAY BE USED ON THIS PLAN SET
STRUCTURAL POST: STEEL HSS	NOTE: 2'x2' PRECAST CONCRETE PIER MAY BE USED AS ALTERNATE FOR PIERS BF28 OR SMALLER.

	PIER / COLUMN SCHEDULE					
ID	HSS ⁽¹⁾	PIER SIZE ⁽²⁾	PIER REINFORCEMENT ⁽³⁾	TOP PLATE	BOTTOM PLATE	
BF28 GALVANIZED 12" SONOTUBE w/ BIGFOOT BF28 BASE SEE DETAIL ON S5 CALVANIZED BOLT					10"x10"x½" WITH (4) ¾" F1554 GR. 55 BOLTS WITH 12" MIN. EMBEDMENT (GALVANIZED PLATES AND BOLTS)	
12"	12"6.000 x 0.188 GALVANIZED12" SONOTUBESEE DETAIL ON S58" x 8" x ½" GALVANIZED10"x10"x½" WITH (4) ¾" F1554 GR. 1 BOLTS WITH 12" MIN. EMBEDMENT (GALVANIZED PLATES AND BOLTS)					
 ⁽¹⁾ MAXIMUM HEIGHT DESIGNED = 9'-0". ⁽²⁾ BOTTOM OF PIER TO BE MINIMUM 48" BELOW GRADE. ⁽³⁾ SEE DETAIL ON S5. ⁽⁴⁾ ALL HSS POSTS TO HAVE BOTTOM PLATES ANCHORED TO PIER. USE TOP PLATES SPECIFIED IN SCHEDULE ABOVE. 						

DRAWING NOTES:

- 1. FOUNDATION DESIGN IS BASED UPON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. SOIL BEARING MATERIAL CAPACITY TO BE DETERMINED BY SOIL TESTS PRIOR TO CONSTRUCTION. IF BEARING MATERIALS WITH A LOWER BEARING CAPACITY THAN 1 TON PER SQUARE FOOT ARE ENCOUNTERED AT THE SPECIFIED ELEVATIONS, THE UNDERLYING MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO BE APPROVED BY THE ENGINEER.
- 2. ALL BACKFILL UNDER STRUCTURAL SLABS, MATS, AND OTHER FOUNDATION ELEMENTS SHALL BE COMPACTED IN MAX 6" LIFTS TO 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D1557, UNLESS OTHERWISE INDICATED OR SPECIFIED. FOUNDATION ELEMENTS SHALL REST ONLY ON SUITABLE UNDISTURBED OR COMPACTED STRUCTURAL FILL. STRUCTURAL FILL GRADATION SHALL BE NO LARGER THAN 1", BETWEEN 10% AND 60% PASSING THE NO. 20 SIEVE AND NO MORE THAN 5% PASSING THE NO. 200 SIEVE.
- PROVIDE 6" MINIMUM CRUSHED STONE UNDER CONCRETE SLAB. GRADATION 3. FOR CRUSHED STONE SHALL BE NO LARGER THAN 1", BETWEEN 10% AND AND 50% PASSING ¹/₂" AND NO MORE THAN 5% PASSING THE NO. 4 SIEVE. CRUSHED STONE REQUIRES COMPACTION BY MAKING AT LEAST THREE PASSES PER 6-INCH THICK LIFT (OR THINNER) BY A VIBRATORY PLATE COMPACTOR OR VIBRATORY ROLLER WITH MINIMUM STATIC WEIGHT OF 200 POUNDS. NO COMPACTION TESTING IS NECESSARY FOR THE CRUSHED STONE FILLS. CRUSHED STONE FILLS THICKER THAN 12 INCHES SHOULD BE PLACED IN ONE-FOOT LIFTS AND SHOULD BE MONITORED BY A TECHNICIAN OR GEOTECHNICAL ENGINEER.
- 4. PROVIDE SHEETING, BRACING AND UNDERPINNING TO PROTECT ADJACENT UTILITY STRUCTURES, AS REQUIRED.

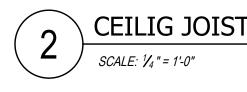
ICAL GRAD IDATION, 60 #5 BAR: ARS AT ALL OST WALLS, G @ 48" FURBED (3) #5 #5 @12" CLUDE 2x4 DATION	S ,	OCCOarchitecture::designP O Box 709hingham, ma 02043p: 617.699.8395e: info @ ocoarch.comSSB Engineering146 Front Street Suite 301Scituate, MA 02066T: 857-504-1065Building EngineeringResources, Inc.66 Main StreetNorth Easton, MA 02356T: 508-230-0260NV5200 Brickstone SquareAndover, MA 01810T: 978. 296.6223
		Birch Meadow Restroom & Support Building FOUNDATION PLAN
		ENGINEER STAMP:
5.	OPEN EXCAVATIONS AROUND BUILDING PERIMETER MUST REMAIN DRY. REMOVE WATER FROM OPEN EXCAVATIONS PRIOR TO BACKFILLING.	
6.	SHORING AND BRACING FOR THE LATERAL SUPPORT OF EXCAVATION SHALL REMAIN IN PLACE UNTIL ALL PERMANENT STRUCTURAL SYSTEMS ARE COMPLETE AS APPROVED BY THE ENGINEER.	
7.	CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR ALL FOUNDATION GRADE BEAMS DURING THE OPERATIONS OF BACKFILLING AND COMPACTION.	Revisions
8.	ALL REQUIRED INSERT SLEEVES, CONDUITS, EMBEDMENTS AND PENETRATIONS MUST BE VERIFIED WITH RESPECTIVE TRADES BEFORE CASTING CONCRETE.	no. date
	NO FOUNDATION ELEMENT, BEAM OR SLABS SHALL BE PLACED ON FROZEN SOIL OR IN WATER.	
10.	THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, BORING LOGS, OR TEST PITS. THE DATA IS INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY OF THESE SPECIFIED LOCATIONS AT THE PARTICULAR TIME THEY WERE MADE.	S2/S5
11.	ALL ORGANIC SOILS SUCH AS TOPSOIL OR ORGANIC FILL FOUND NEAR THE SURFACE IN SLAB LOCATIONS MUST BE REMOVED. THE UPPER TWO FEET OF FILL AND ANY ORGANIC FILL MATERIALS EXPOSED AT THE BASE OF EXCAVATION SHOULD BE REMOVED TO INORGANIC FILL OR UNDISTURBED SILTY SANDS. COMPACTED STRUCTURAL FILL SHALL BE USED AS NEEDED TO GRADE BEFORE GRAVEL BASE AND SLAB PLACEMENT.	scale: date: 01.27.23

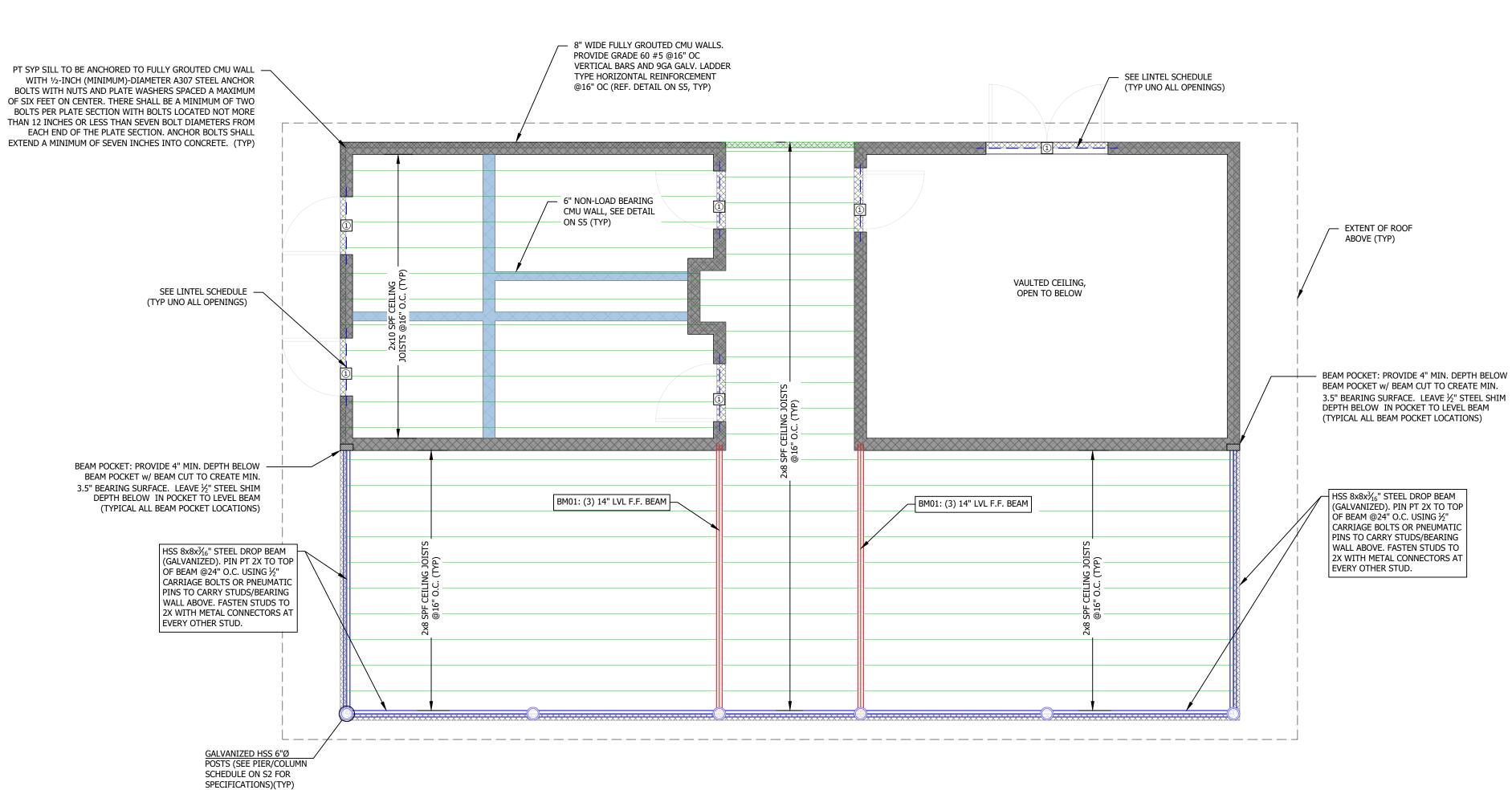
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	\bigcirc	STRUCTURAL POST: STEEL HSS
 STRUCTURAL BEAM: LVL	\bigcirc	STRUCTURAL POST. STELL HISS
 STRUCTURAL BEAM: CONVENTIONAL LUMBER	\times	STRUCTURAL POST: STEEL HSS
 STRUCTURAL BEAM: STEEL	\bowtie	STRUCTURAL POST: LVL
 FLOOR CEILING JOIST: CONVENTIONAL LUMBER	\bowtie	STRUCTURAL POST: CONVENTIONAL LUMBER
 ROOF RAFTER: CONVENTIONAL LUMBER	\boxtimes	STRUCTURAL POST ABOVE
CMU BEARING WALL BELOW	DOO	R/WINDOW HEADERS:
NON-LOAD BEARING CMU BEARING WALL BELOW	1	REFER TO LINTEL SCHEDULE
BEARING WALL ABOVE		
EXISTING BEARING WALL BELOW		

FRAMING LEGEND

HANGER SCHEDULE										
MATERIAL	HARDWARE									
(2) 1¾" LVLs MGU3.63-SDS										
(3) 1¾" LVLs	HGU5.50-SDS									
(4) 1¾" LVLs	HHGU7.25-SDS									
HANGER NOTES:										
1. FOR ALL LVL HANGERS, USE SCREWS LONG ENOUGH TO ENGAGE ALL PLYS OF THE LVL BEING CONNECTED INTO.										
2. ALL CONVENTIONAL LUMBER TO USE FULLY N	AILED METAL JOIST HANGERS.									
3. LVLs THAT FRAME AROUND STAIR OPENING M SHOWN IN HANGER SCHEDULE.	AY USE NAILED LVL HANGERS INSTEAD OF SCREWED HANGERS AS									





CEILIG JOIST / ATTIC FRAMING PLAN

DRAWING NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS AND FLOOR LAYOUTS. NOTIFY ENGINEER IF CONDITIONS VARY FROM SHOWN ON THESE PLANS. REFER TO GENERAL STRUCTURAL NOTES (SHEET S1) FOR ADDITIONAL INFORMATION AND SPECIFICATIONS.

TIMBER FRAMING MATERIALS:

- 1. TIMBER FRAMING MEMBERS SHOWN ON THIS PLAN HAVE BEEN DESIGNED TO MEET THE STANDARD FRAMING SPECIFICATIONS, NOTED IN THE GENERAL STRUCTURAL NOTES ON SHEET S1 OF THIS PLAN SET.
- 2. TIMBER FRAMING MEETING STANDARD SPECIFICATIONS, IN GENERAL, WILL BE ABBREVIATED ON THESE STRUCTURAL PLANS, UNLESS NOTED SPECIFICALLY OTHERWISE ON STRUCTURAL PLANS - ALL TIMBER FRAMING MATERIALS ARE TO MEET THE FOLLOWING SPECIFICATIONS:
 - CONVENTIONAL LUMBER:
 - a. BOARDS & BEAMS
 - INTERIOR (UNTREATED): SPRUCE-PINE-FIR (SPF), GRADE #2
 - EXTERIOR (TREATED): SOUTHERN YELLOW PINE (SYP) PRESSURE TREATED (PT), GRADE #2.
 - b. POSTS
 - INTERIOR (UNTREATED) SPECIES AS NOTED ON DRAWING.
 - DOUGLAS-FIR-LARCH (DFL), GRADE #2.
 - EXTERIOR (TREATED): SOUTHERN YELLOW PINE (SYP) PRESSURE TREATED (PT), GRADE #2.

I	LINTEL SCHEDULE	
CLEAR OPENING DIMENSION	LINTEL SIZE	END BEARING
0" TO 5'-0"	L3 ½x3½x5½6	4"
5'-1" TO 7'-0"	L5x3 ½x5⁄16	6"
7'-1" TO 9'-0"	L6x3 ½x¾	8"
9'-1" TO 11'-0"	L6x3 ½x½"	10"

S3/S5	no. date	ENGINEER STAMP: Revisions	Birch Meadow Restroom & Support Building CEILING JOIST / ATTIC FRAMING PLAN	North Easton, MA 02356 T: 508-230-0260 NV5 200 Brickstone Square Andover, MA 01810 T: 978. 296.6223	Building Engineering Resources, Inc. 66 Main Street	SSB Engineering 146 Front Street Suite 301 Scituate, MA 02066 T: 857-504-1065	P O Box 709 hingham, ma 02043 p: 617.699.8395 e: info @ ocoarch.com	$\bigcirc \bigcirc \bigcirc \bigcirc$

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date: 01.27.23

ENGINEERED LUMBER:

a. I-JOISTS

- SEE TO ENGINEERING PLANS FOR SPECIFICATIONS JOIST TYPE/GRADE VARIES. REFER TO JOIST MANUFACTURER INSTRUCTIONS (AS WELL AS STRUCTURAL PLANS AND CALCULATIONS) FOR REQUIRED I-JOIST BRACING, STIFFENERS, and/or CONNECTORS.
- JOIST HANGERS SHALL BE METAL AND ARE TO BE OF SUFFICIENT LOAD RATING TO CARRY DESIGN LOADS, HANGER TYPE/STYLE IS CONTRACTOR PREFERENCE. FOLLOW INSTALLATION REQUIREMENTS BY MANUFACTURER (FASTENERS, STIFFENERS, ETC) TO OBTAIN PROPER JOIST HANGER CAPACITY.

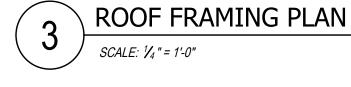
b. BOARDS & BEAMS:

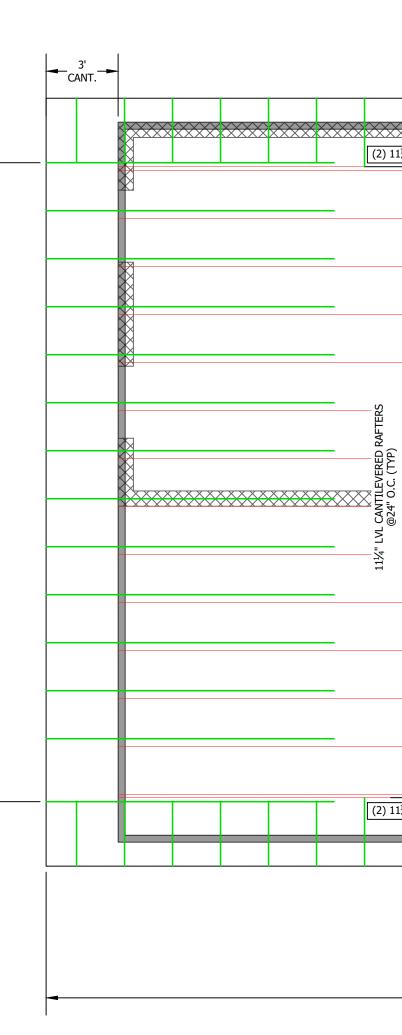
- INTERIOR (UNTREATED): LAMINATED VENEER LUMBER (LVL) SOUTHERN-PINE (SP) , GRADE 2.1E 3100 SP, WIDTH 1³/₄" (UNO).
- EXTERIOR (TREATED): PARALLEL STRAND LUMBER (PSL) w/ PRESERVATIVE TREATMENT. (BEAM SIZE AS NOTED ON STRUCTURAL FRAMING PLANS). EXTERIOR PSL HORIZONTAL MEMBERS TO BE TRUSJOIST® 2.0E PARALLAM® PLUS PSL SL2 MOIST USE RATED; OR AN APPROVED EQUIVALENT BY ENGINEER.

c. POSTS:

• INTERIOR (UNTREATED): LAMINATED VENEER LUMBER (LVL) SOUTHERN-PINE (SP), GRADE 1.8E 2650 • EXTERIOR (TREATED): PARALLEL STRAND LUMBER (PSL) w/ PRESERVATIVE TREATMENT. (POST SIZE AS NOTED ON PLAN). EXTERIOR PSL HORIZONTAL MEMBERS TO BE TRUSJOIST ® 2.0E PARALLAM® PLUS PSL SL2 MOIST USE RATED; OR AN APPROVED EQUIVALENT BY ENGINEER.

HANGER SCHEDULE										
MATERIAL	HARDWARE									
(2) 1¾" LVLs	MGU3.63-SDS									
(3) 1¾" LVLs	HGU5.50-SDS									
(4) 1¾" LVLs	HHGU7.25-SDS									
HANGER NOTES:										
1. FOR ALL LVL HANGERS, USE SCREWS LONG EN	1. FOR ALL LVL HANGERS, USE SCREWS LONG ENOUGH TO ENGAGE ALL PLYS OF THE LVL BEING CONNECTED INTO.									
2. ALL CONVENTIONAL LUMBER TO USE FULLY NAILED METAL JOIST HANGERS.										
3. LVLs THAT FRAME AROUND STAIR OPENING M SHOWN IN HANGER SCHEDULE.	AY USE NAILED LVL HANGERS INSTEAD OF SCREWED HANGERS AS									

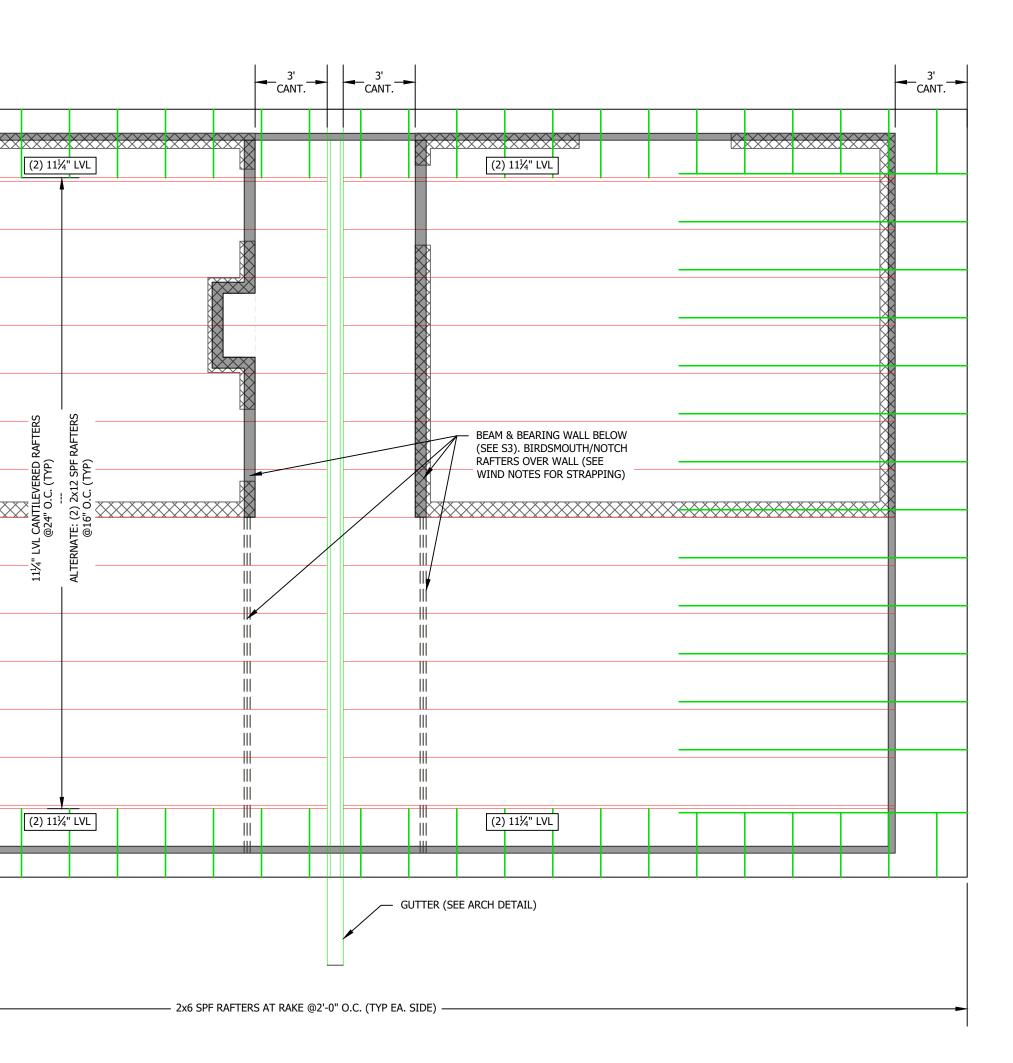




LVL RAFTERS (OR . MAX CANTILEVER = 12'-0"] (TYP)

5 SPF CANTILEVERED RAFTERS SISTERED TO ALTERNATE) WITH (3) 10d NAILS @12" O.C. 3'-0", MIN BACKSPAN 9'-0". [TOTAL LENGTH

, SPF



DRAWING NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS AND FLOOR LAYOUTS. NOTIFY ENGINEER IF CONDITIONS VARY FROM SHOWN ON THESE PLANS. REFER TO GENERAL STRUCTURAL NOTES (SHEET S1) FOR ADDITIONAL INFORMATION AND SPECIFICATIONS.

TIMBER FRAMING MATERIALS:

- 1. TIMBER FRAMING MEMBERS SHOWN ON THIS PLAN HAVE BEEN DESIGNED TO MEET THE STANDARD FRAMING SPECIFICATIONS, NOTED IN THE GENERAL STRUCTURAL NOTES ON SHEET S1 OF THIS PLAN SET.
- 2. TIMBER FRAMING MEETING STANDARD SPECIFICATIONS, IN GENERAL, WILL BE ABBREVIATED ON THESE STRUCTURAL PLANS, UNLESS NOTED SPECIFICALLY OTHERWISE ON STRUCTURAL PLANS - ALL TIMBER FRAMING MATERIALS ARE TO MEET THE FOLLOWING SPECIFICATIONS:
 - CONVENTIONAL LUMBER:
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 - INTERIOR (UNTREATED): SPRUCE-PINE-FIR (SPF), GRADE #2
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 - DOUGLAS-FIR-LARCH (DFL), GRADE #2.
 - EXTERIOR (TREATED): SOUTHERN YELLOW PINE (SYP) PRESSURE TREATED (PT), GRADE #2.

WIND NOTES:

- 1. PROVIDE SIMPSON H2A HURRICANE TIES AT ALL RAFTER TO SILL TO STUD CONNECTIONS. PROVIDE SIMPSON H3 STRAPS AT RAFTERS TO DROP BEAM CONNECTIONS.
- 2. PROVIDE STRUCTURAL 1 RATED SHEATHING FOR ALL EXTERIOR WALLS AND ROOF; $\frac{1}{16}$ " WALL PANELS, $\frac{1}{2}$ " ROOF PANELS. ALL EXTERIOR WALL PANELS TO HAVE MINIMUM 6" EDGE AND 12" FIELD NAILING.
- 3. ALL NAILING TO BE BASED ON NAILING TABLE IN LOCATIONS WHERE METAL CONNECTORS ARE NOT USED. SEE S5 FOR NAILING TABLE.



hingham, ma 02043 p: 617.699.8395 e: info @ ocoarch.com

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Building Engineering Resources, Inc. 66 Main Street North Easton, MA 02356 T: 508-230-0260

NV5 200 Brickstone Square Andover, MA 01810 T: 978. 296.6223

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Revisions

no. date

S4/S5

• EXTERIOR (TREATED): PARALLEL STRAND LUMBER (PSL) w/ PRESERVATIVE TREATMENT. (BEAM SIZE AS NOTED ON STRUCTURAL FRAMING PLANS). EXTERIOR PSL HORIZONTAL MEMBERS TO BE TRUSJOIST® 2.0E PARALLAM® PLUS PSL SL2 MOIST USE RATED; OR AN APPROVED EQUIVALENT BY ENGINEER.

c. POSTS:

ENGINEERED LUMBER:

b. BOARDS & BEAMS:

3100 SP, WIDTH 1³/₄" (UNO).

a. I-JOISTS

• INTERIOR (UNTREATED): LAMINATED VENEER LUMBER (LVL) SOUTHERN-PINE (SP), GRADE 1.8E 2650 • EXTERIOR (TREATED): PARALLEL STRAND LUMBER (PSL) w/ PRESERVATIVE TREATMENT. (POST SIZE AS NOTED ON PLAN). EXTERIOR PSL HORIZONTAL MEMBERS TO BE TRUSJOIST ® 2.0E PARALLAM® PLUS PSL SL2 MOIST USE RATED; OR AN APPROVED EQUIVALENT BY ENGINEER.

• SEE TO ENGINEERING PLANS FOR SPECIFICATIONS - JOIST TYPE/GRADE VARIES. REFER TO JOIST

• JOIST HANGERS SHALL BE METAL AND ARE TO BE OF SUFFICIENT LOAD RATING TO CARRY DESIGN

BY MANUFACTURER (FASTENERS, STIFFENERS, ETC) TO OBTAIN PROPER JOIST HANGER CAPACITY.

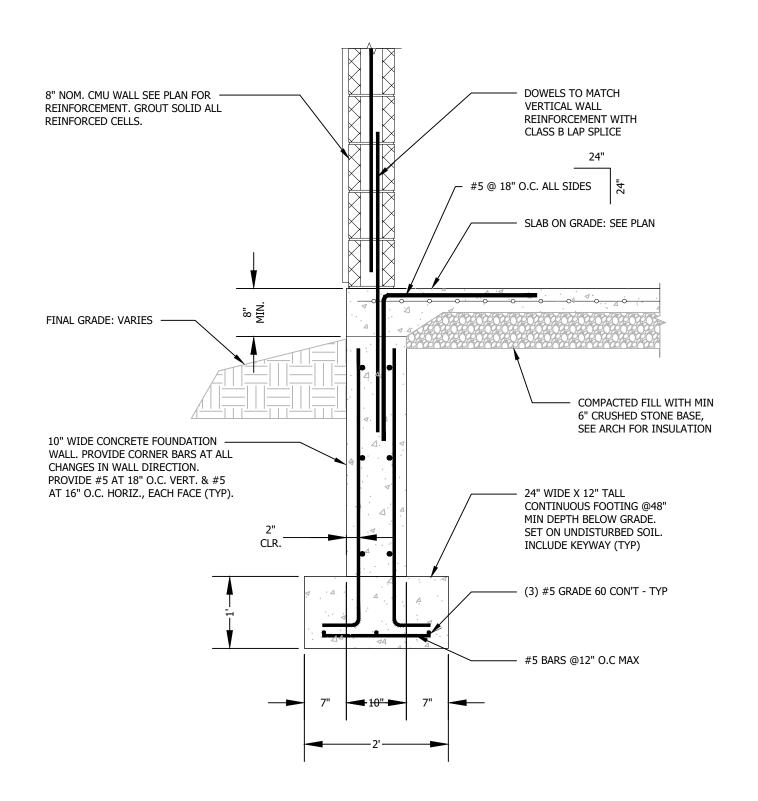
• INTERIOR (UNTREATED): LAMINATED VENEER LUMBER (LVL) SOUTHERN-PINE (SP), GRADE 2.1E

REQUIRED I-JOIST BRACING, STIFFENERS, and/or CONNECTORS.

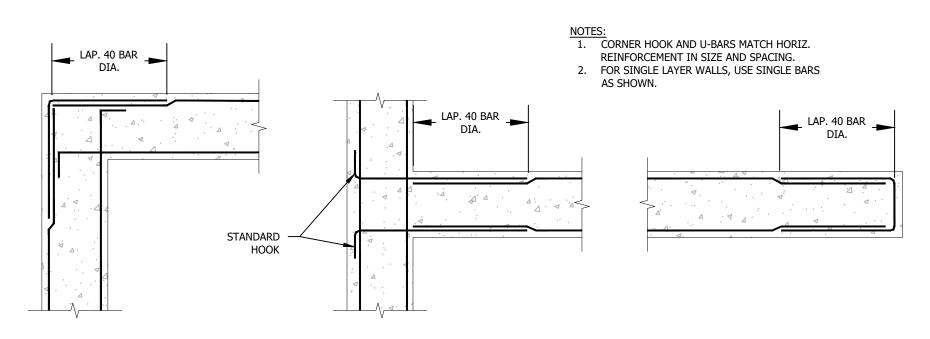
MANUFACTURER INSTRUCTIONS (AS WELL AS STRUCTURAL PLANS AND CALCULATIONS) FOR

LOADS, HANGER TYPE/STYLE IS CONTRACTOR PREFERENCE. FOLLOW INSTALLATION REQUIREMENTS

scale: date: 01.27.23 file: ***

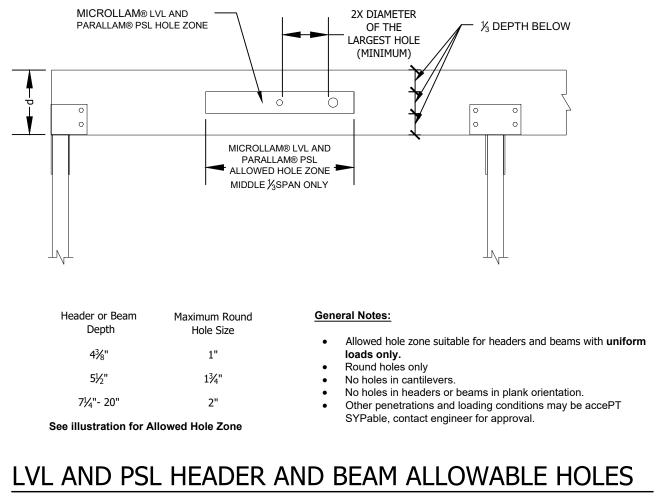


FROST WALL SECTION - TYPICAL SCALE: 3⁄4" = 1'-0"

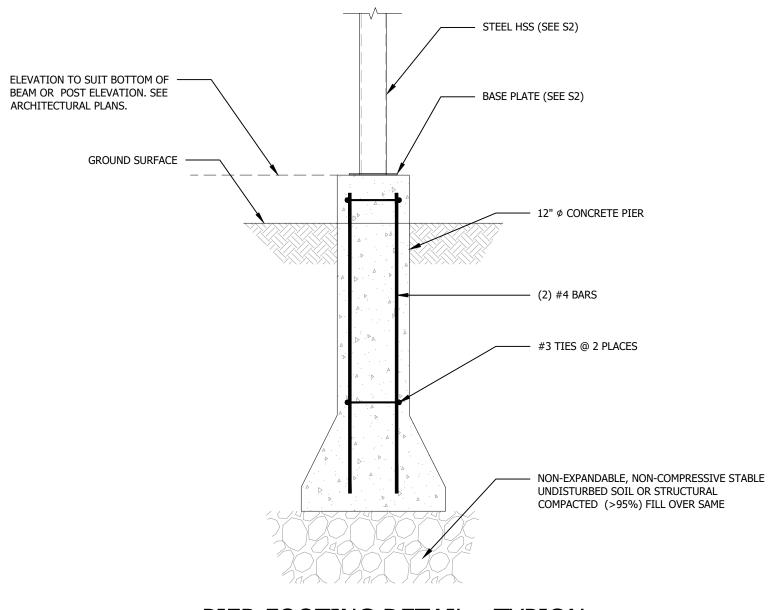


TYPICAL BAR DETAILS @ WALL & FOOTINGS

SCALE: 3⁄4 " = 1'-0"

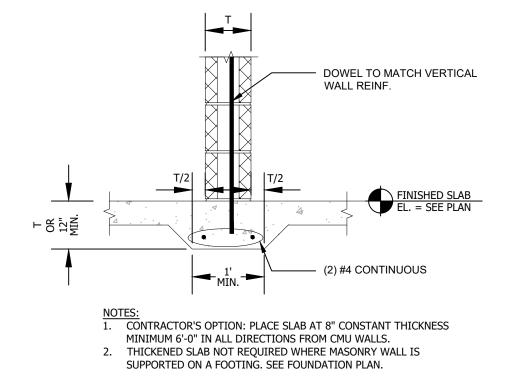


SCALE: 3⁄4 " = 1'-0"



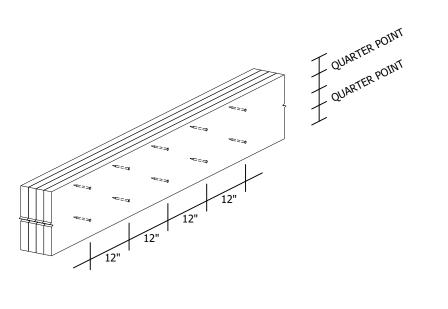
PIER FOOTING DETAIL - TYPICAL

SCALE: 3⁄4 " = 1'-0"



NON-LOAD BEARING MASRONRY - THICKENED SLAB

SCALE: 3⁄4 " = 1'-0"





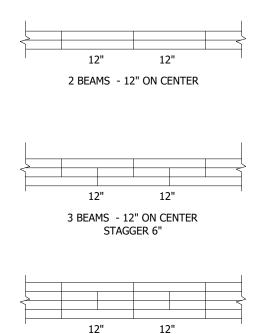
- 1. NAIL TOGETHER USING (2) 10d NAILS (3-1/4") COMMON NAILS 2. IF USING 10d NAIL (3") COMMON ADD THIRD LINE AT CENTER LINE
- 4-PLY BEAMS USE (3) SIMPSON SDS ¼"x6" SCREWS @12" O.C.
 NAIL TWO TOGETHER AT A TIME

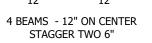
LVL NAILING SCHEDULE

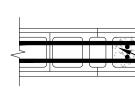
SCALE: 3⁄4 " = 1'-0"

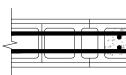
JOINT DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	NAIL SPACING
ROOF FRAMING			
Blocking to Rafter (Toe-nailed)	2-8d	2-10d	each end
Rim Board to Rafter (End-nailed)	2-16d	3-16d	each end
WALL FRAMING	·		
Top Plates at Intersections (Face-nailed)	4-16d	5-16d	at joints
Stud to Stud (Face-nailed)	2-16d	2-16d	24" O.C.
Header to Header (Face-nailed)	16d	16d	16" O.C. along edges
FLOOR FRAMING		• • • •	
Joist to Sill, Top Plate or Girder (Toe-nailed)	4-8d	4-10d	per joist
Blocking to Joist (Toe-nailed)	2-8d	2-10d	each end
Blocking to Sill or Top Plate (Toe-nailed)	3-16d	4-16d	each block
Ledger Strip to Beam or Girder (Face-nailed)	3-16d	4 -16d	each joist
Joist on Ledger to Beam (Toe-nailed)	3-8d	3-10d	per joist
Band Joist to Joist (End-nailed)	3-16d	4-16d	per joist
Band Joist to Sill or Top Plate (Toe-nailed)	2-16d	3-16d	per foot
ROOF SHEATHING		•	
Wood Structural Panels			
Rafters or Trusses (Spaced up to 16" O.C.)	8d	10d	6" edge / 6" field
Rafters or Trusses (Spaced over 16" O.C.)	8d	10d	4" edge / 4" field
Gable Endwall Rake or Rake Truss w/o Gable Overhang	8d	10d	6" edge / 6" field
Gable Endwall Rake or Rake Truss w/ Structural Outlookers	8d	10d	6" edge / 6" field
Gable Endwall Rake or Rake Truss w/ Lookout Blocks	8d	10d	4" edge / 4" field
CEILING SHEATHING			
Gypsum Wallboard	5d coolers	-	7" edge / 10" field
WALL SHEATHING		•	
Wood Structural Panels, studs spaced up to 24" O.C.	8d	10d	6" edge / 12" field
$\frac{1}{2}$ " and $\frac{25}{32}$ " Fiberboard Panels	8d ¹	-	3" edge / 6" field
½" Gypsum Wallboard	5d coolers	-	7" edge / 10" field
FLOOR SHEATHING		•	
Wood Structural Panels			
1" or Less	8d	10d	6" edge / 12" field
Greater than 1"	10d	16d	6" edge / 6" field

NAILING TABLE







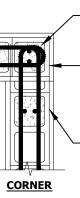


SCALE: 3⁄4 " = 1'-0"

MASONRY REINFORCEMENT PLACEMENT - PLAN VIEW

HORIZONTAL JOINT

REINFORCEMENT



CELLS (3) STANDARD HOOK

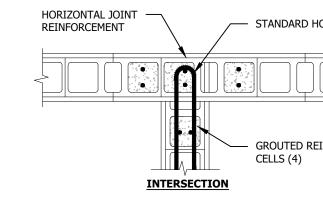
HORIZONTAL JOINT

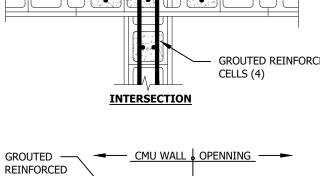
REINFORCEMENT

HORIZONTAL JOINT END OF WALL REINFORCEMENT

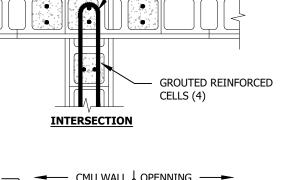
- GROUTED REINFORCED

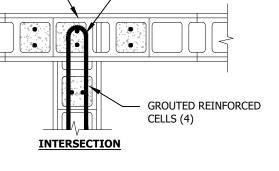
— GROUTED REINFORCED CELLS (2) STANDARD HOOK





AT OPENINGS





STANDARD HOOK

CELLS (2)

Revisions no. date



STANDARD HOOK

ENGINEER STAMP:

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MECHANICAL SPECIFICATIONS

PART 1: GENERAL

1.1 DESCRIPTION OF WORK

A. WORK INCLUDED: PROVIDE LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK OF THIS SECTION.

1.2 REGULATORY REQUIREMENTS

- A. COMPLY WITH ALL APPLICABLE FEDERAL AND STATE LAWS, AND ALL LOCAL CODES, BY-LAWS AND ORDINANCES.
- B. REQUEST INSPECTIONS FROM AUTHORITIES HAVING JURISDICTION. OBTAIN ALL PERMITS AND PAY FOR ALL FEES AND INSPECTION CERTIFICATES AS APPLICABLE AND/OR REQUIRED. ALL PERMITS AND CERTIFICATES SHALL BE TURNED OVER TO THE OWNERS UPON COMPLETION OF THE WORK. C. ALL WORK, EQUIPMENT AND MATERIALS SHALL CONFORM TO THE BUILDING CONSTRUCTION RULES AND REGULATIONS.

1.3 SUBMITTALS

- A. PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT, INCLUDING BUT NOT LIMITED TO:
- 1. EXHAUST FANS. 2. REGISTERS AND DIFFUSERS.

3. LOUVERS.

- 1.4 COORDINATION A. WORK SHALL BE PERFORMED IN COOPERATION WITH OTHER TRADES ON THE PROJECT AND SO SCHEDULED AS TO ALLOW SPEEDY AND EFFICIENT
- COMPLETION OF THE WORK. B. FURNISH TO OTHER TRADES ADVANCE INFORMATION ON LOCATIONS AND SIZES OF ALL FRAMES, BOXES, SLEEVES AND OPENINGS NEEDED FOR THEIR WORK, AND ALSO FURNISH INFORMATION AND SHOP DRAWINGS NECESSARY TO PERMIT TRADES AFFECTED BY THE WORK TO INSTALL SAME
- C. IF ANY HVAC WORK HAS BEEN INSTALLED BEFORE COORDINATION WITH OTHER TRADES SO AS TO CAUSE INTERFERENCE WITH THE WORK OF SUCH TRADES, ALL NECESSARY ADJUSTMENTS AND CORRECTIONS SHALL BE MADE BY THE HVAC TRADES INVOLVED WITHOUT EXTRA COST TO THE OWNERS. D. PROTECT ALL MATERIALS AND WORK OF OTHER TRADES FROM DAMAGE WHICH MAY BE CAUSED BY THE HVAC WORK AND REPAIR ALL DAMAGES WITHOUT EXTRA COST TO OWNERS.

1.5 MECHANICAL AND ELECTRICAL COORDINATION

- A. HEATING, VENTILATION, AND AIR CONDITIONING SUBCONTRACTOR SHALL FURNISH AND INSTALL VARIOUS ELECTRICAL ITEMS RELATING TO THE HVAC EQUIPMENT AND CONTROL APPARATUS. THE ELECTRICAL SUBCONTRACTOR SHALL BE REQUIRED TO CONNECT POWER WIRING TO THIS EQUIPMENT UNLESS NOTED OTHERWISE.
- B. THE HVAC AND ELECTRICAL SUBCONTRACTOR SHALL COORDINATE THEIR RESPECTIVE PORTIONS OF THE WORK, AS WELL AS THE ELECTRICAL
- CHARACTERISTICS OF THE HVAC EQUIPMENT. C. ALL POWER WIRING AND LOCAL DISCONNECT SWITCHES WILL BE PROVIDED BY THE ELECTRICAL SUBCONTRACTOR FOR THE LINE VOLTAGE POWER.
- ALL CONTROL AND INTERLOCKING WIRING SHALL BE THE RESPONSIBILITY OF THE HVAC SUBCONTRACTOR. D. 120 VOLT POWER WIRING SOURCES EXTENDED AND CONNECTED TO HEATING AND VENTILATING CONTROL PANELS, TRANSFORMERS, AND SWITCHES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR. ALL LOW VOLTAGE THERMOSTAT, ZONE VALVE AND ANY SWITCH WIRING SHALL BE THE RESPONSIBILITY OF THE HVAC SUBCONTRACTOR.
- E. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF DIVISION 16. F. ALL STARTERS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 16 EXCEPT THOSE FURNISHED AS AN INTEGRAL PART OF PACKAGED EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.

1.6 INSTALLATION REQUIREMENTS

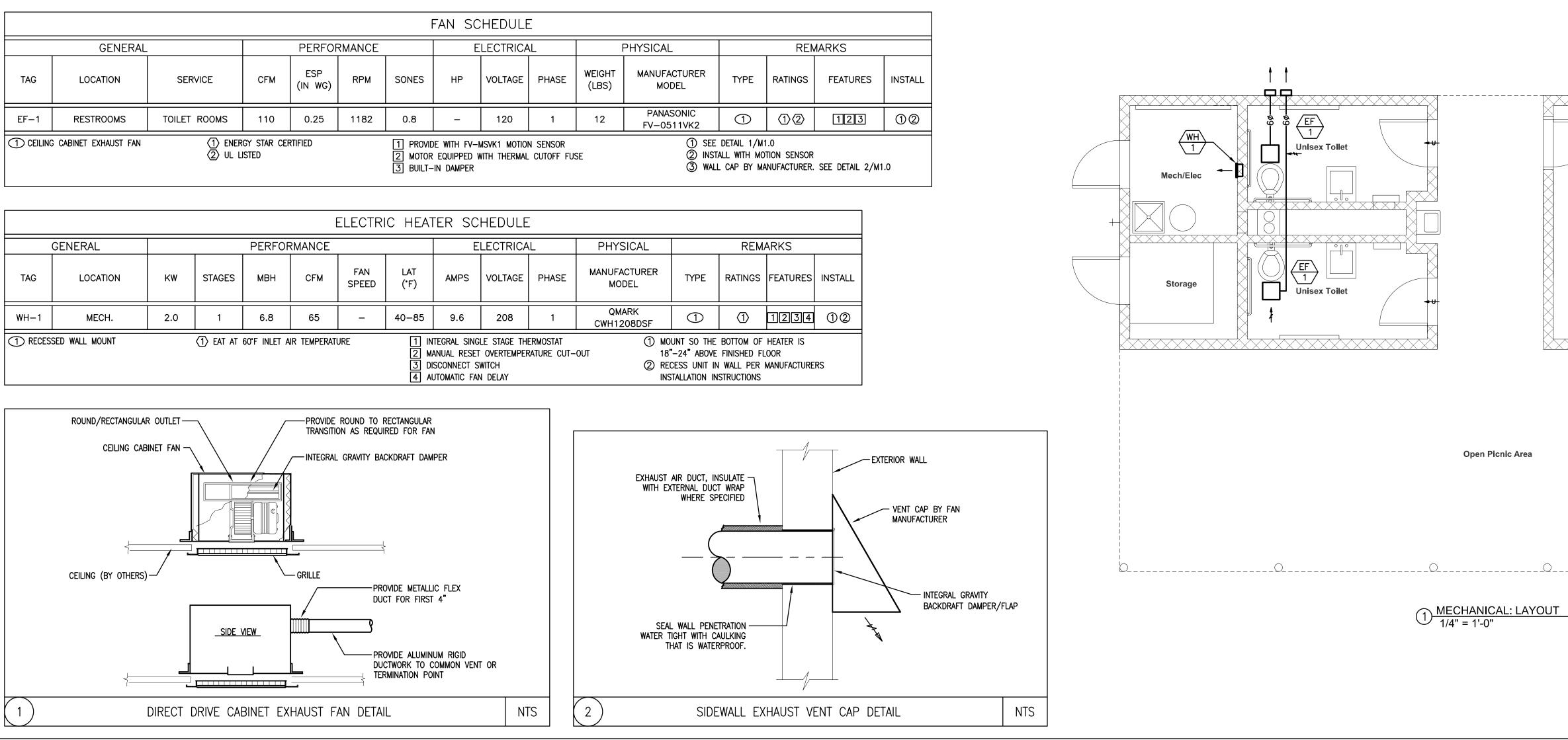
A. THE ARRANGEMENT OF ALL HVAC WORK SHOWN ON THE DRAWINGS IS DIAGRAMMATICAL ONLY AND INDICATES THE MINIMUM REQUIREMENTS OF THE WORK. CONDITION AT THE BUILDING INCLUDING ACTUAL MEASUREMENTS SHALL DETERMINE THE DETAILS OF THE INSTALLATION.

1.7 RECORD DRAWINGS/PROJECT CLOSEOUT A. PROVIDE RECORD AS-BUILT DRAWINGS AT COMPLETION OF INSTALLATION.

1.8 GUARANTEE/WARRANTY

- A. ALL NEW MATERIALS, ITEMS OR EQUIPMENT AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CARRY STANDARD WARRANTY AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF WORK. ANY FAULT DUE TO DEFECTIVE OR IMPROPER MATERIAL, EQUIPMENT, WORKMANSHIP OR MANUFACTURING DESIGN WHICH MAY DEVELOP WITHIN THAT PERIOD SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THIS CONTRACTOR, INCLUDING ALL OTHER DAMAGES DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM THIS FAILURE.
- B. THIS CONTRACTOR SHALL GUARANTEE THAT ALL NEW ELEMENTS OF THE SYSTEMS MEET THE SPECIFIED PERFORMANCE REQUIREMENTS AS SET FORTH HEREIN OR AS INDICATED ON THE DRAWINGS.

GENERAL PERFORMANCE ELECTRICAL PHYSICAL WEIGHT MANUFACTURER ESP TAG LOCATION SERVICE CFM RPM SONES HP VOLTAGE PHASE (IN WG) (LBS) MODEL PANASONIC EF-1 RESTROOMS TOILET ROOMS 110 0.25 1182 0.8 120 12 _ FV-0511VK2 1 ENERGY STAR CERTIFIED PROVIDE WITH FV-MSVK1 MOTION SENSOR 2 UL LISTED MOTOR EQUIPPED WITH THERMAL CUTOFF FUSE



PART 2: PRODUCTS

- 2.1 DUCTWORK 1. SMACNA HVAC DUCT CONTRUCTION STANDARDS
- 2. SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL 3. NFPA 90A
- 4. SMACNA GUIDELINES FOR WELDING SHEETMETAL
- B. RATINGS: C. SEALING REQUIREMENTS:
- E. CONSTRUCTION:
- CENTERS.

PART 3: EXECUTION

- 3.1 TESTING AND CLOSEOUT A. CLEANING

3.2 OPERATING AND MAINTENANCE INSTRUCTIONS

- 3.3 HOISTING, SCAFFOLDING, STAGING AND PLANKING
- 3.4 TESTING AND BALANCING SYSTEM BALANCE OR ASHRAE SYSTEMS HANDBOOK.

A. GENERAL: MATERIAL, CONSTRUCTION AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE MOST RECENT EDITIONS OF THE FOLLOWING STANDARDS AND REFERENCES, EXCEPT FOR MORE STINGENT REQUIREMENTS SHOWN ON THE DRAWINGS:

PROVIDE SUPPORTING AND HANGING DEVICES NECESSARY TO INSTALL THE ENTIRE HVAC SYSTEM INDICATED ON THE DRAWINGS. DUCTWORK SHALL BE FREE FROM VIBRATION UNDER ALL CONDITIONS OF OPERATION. DIMENSIONS SHOWN ON THE DRAWINGS ARE NET INSIDE DIMENSIONS. NO PIPES, CONDUITS, HANGERS, OR ARCHITECTURAL ELEMENTS SHALL PASS THROUGH DUCTWORK.

1. DUCT CONSTRUCTION CLASS 2" OR LESS AND STATIC PRESSURE RATINGS OF 2" OR LESS POSITIVE AND NEGATIVE SHALL BE SMACNA SEAL CLASS B AND LEAKAGE CLASS 12 FOR ALL VELOCITIES OF 2500 FEET/MIN. OR LESS.

1. CLASS B/LEAKAGE CLASS 12: GALVANIZED, NON-WELDED ALUMINUM OR NON-WELDED STAINLESS STEEL DUCTWORK TRAVERSE JOINTS SHALL BE MADE WITH SEALING TAPE EQUAL TO HARDCAST MODEL 1902-FR, CORNERS SHALL BE SEALED AS DESCRIBED BY SMACNA. SEAL ALL NON-FLANGED TRAVERSE JOINTS WITH HARDCAST VERSA MODEL 102 OR APPROVED EQUAL. LONGITUDINAL SEAMS SHALL BE SEALED WITH HARDCAST COLD SEAL MODEL 1001. D. SUPPORT: SPACE HANGERS AS REQUIRED BY SMACNA (8 FT. MAX.) FOR HORIZONTAL ON 8 FT. CENTERS, UNLESS CONCENTRATED LOADINGS REQUIRE CLOSER SPACING. SUPPORT VERTICAL DUCT AT ROOF PENETRATIONS. SUPPORTS FOR DUCTWORK AND EQUIPMENT SHALL BE GALVANIZED UNLESS SPECIFIED OTHERWISE.

1. NO SHARP METAL EDGES SHALL EXTEND INTO AIR STREAMS. INSTALL DRIVE SLIPS ON AIR-LEAVING SIDE OF DUCT WITH SHEETMETAL SCREWS ON 6"

2. PLENUM AND CONNECTIONS TO LOUVERS SHALL BE 18 GAUGE MIN. CROSS-BROKEN AND PROPERLY REINFORCED WITH GALV. ANGLE IRONS TO SMACNA REQUIREMENTS AND SHALL HAVE BOTTOM AND CORNER SEAMS SOLDERED WATERTIGHT AT LEAST 12" UP FROM BOTTOM. PROVIDE NEOPRENE GASKETS TO MAKE CONNECTIONS TO LOUVERS WATERTIGHT. PLENUMS SHALL PITCH CONNECTIONS BACK TOWARDS LOUVER.

1. UPON COMPLETION ALL SHEET METAL WORK SPECIFIED UNDER THIS SECTION IS TO BE CLEANED. ALL EQUIPMENT IS TO BE CLEANED, ALL TRIM INSTALLED, ALL PROTECTIVE OIL, TAPE OR OTHER MATERIALS USED TO PROTECT WORK ARE TO BE REMOVED. 2. ALL DUCTS, FANS, AND EQUIPMENT SHALL BE THOROUGHLY CLEANED INSIDE AND OUTSIDE AND BLOWN OUT TO PREVENT AND DEBRIS FROM DAMAGING FAN SHIELDS OR DEBRIS HANGING THROUGH REGISTERS OR DIFFUSERS WHEN SYSTEMS ARE PLACED IN OPERATION. ALL TEMPORARY CONNECTIONS REQUIRED FOR BLOWING OUT THE SYSTEMS, CHEESECLOTH FOR ALL DUCT OPENINGS, AND ANY OTHER EQUIPMENT OR LABOR FOR CLEANING, SHALL BE PROVIDED BY THE HVAC CONTRACTOR. THE ENTIRE HVAC SYSTEM SHALL BE KEPT CLEAN UNTIL FINAL ACCEPTANCE. ANY DAMAGE TO CEILINGS BY THE HVAC CONTRACTOR SHALL BE RECTIFIED BY HIM AT NO ADDITIONAL CHARGE TO THE OWNER, TO THE SATISFACTION OF THE DESIGNER.

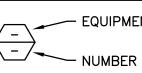
A. PRIOR TO COMPLETION OF THE CONTRACT, PROVIDE FIELD AND WRITTEN OPERATING INSTRUCTIONS TO THE OWNER'S DESIGNATED REPRESENTATIVE WITH RESPECT TO OPERATION FUNCTIONS AND MAINTENANCE PROCEDURES FOR ALL EQUIPMENT AND SYSTEMS INSTALLED. B. PRIOR TO SCHEDULING THE PROJECT FINAL INSPECTION AND AFTER COMPLETION OF ALL INSTALLATION AND RUNNING EQUIPMENT AND AUTOMATIC CONTROL ADJUSTMENTS, PERFORM AIR BALANCING AND ANY OTHER WORK REQUIRED TO PLACE THE EQUIPMENT IN COMPLETE OPERATING CONDITION TO MEET ALL REQUIREMENTS UNDER THIS SPECIFICATION. DURING THIS RUNNING TEST PERIOD, DELIVER TO THE DESIGNER TWO COMPLETE SETS OF OPERATING, SERVICE, MAINTENANCE AND REPLACEMENT DATA FOR ALL EQUIPMENT WHICH WILL REQUIRE OPERATING MAINTENANCE OR REPLACEMENT AND ONE COPY OF THIS LITERATURE SHALL BE AVAILABLE DURING THE INSTRUCTION OF THE OPERATING PERSONNEL WHILE THE OTHER IS CHECKED FOR COMPLETENESS BY THE DESIGNER. DURING ALL WORKING HOURS OF THE "OPERATING TEST", THIS CONTRACTOR'S PERSONNEL SHALL BE AVAILABLE FOR GIVING FIELD INSTRUCTION, SHALL COVER OPERATION, MAINTENANCE AND ADJUSTING OF ALL EQUIPMENT INSTALLED.

A. PROVIDE, SETUP AND MAINTAIN ALL REQUIRED DERRICKS, HOISTING MACHINERY, SCAFFOLDS AND STAGING, PLANKING AND PERFORM ALL HOISTING REQUIRED TO COMPLETE THE WORK OF THIS FILED SUB-BID AS INDICATED AND SPECIFIED. B. SCAFFOLDS SHALL HAVE SOLID BACKS AND FLOORS TO PREVENT DROPPING MATERIALS FROM THERE TO THE FLOORS OR GROUND.

A. TOTAL SYSTEM BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH AABC NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, TOTAL

EQUIPMENT (REQUIRING POWER)

TAG LEGEND

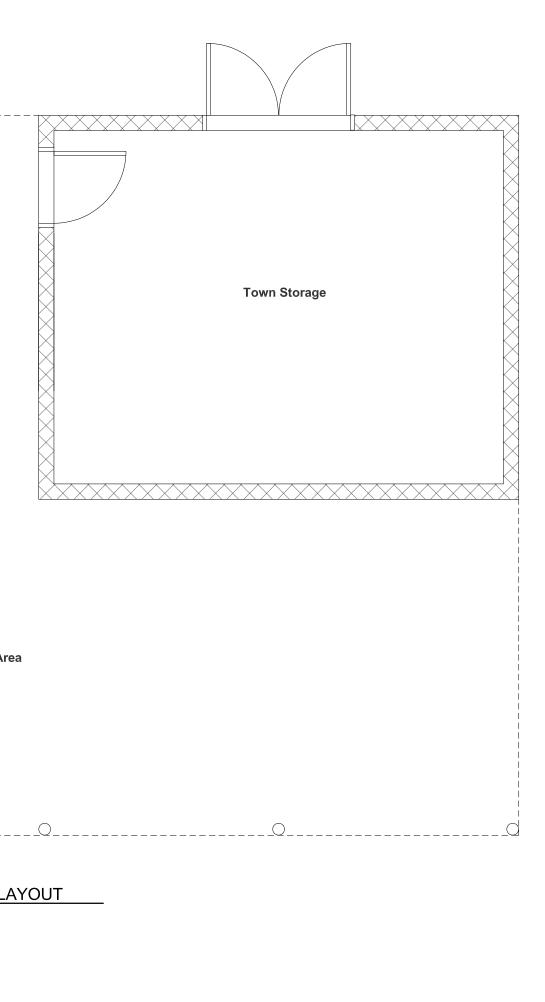


EQUIPMENT DESIGNATION

M	ECHANICAL LEGEND
SYMBOL	DESCRIPTION
	DUCTWORK (DOUBLE LINE)
├ ───┤	DUCTWORK (SINGLE LINE)
-# ~	AIR ENTERING OPENING
	AIR LEAVING OPENING
. U >	UNDERCUT DOOR
BTU BTUH CFM EAT EF ESP EXH F FPM HP IN WG KW LAT LBS MBH N/A	BRITISH THERMAL UNIT BTU / HOUR CUBIC FEET PER MINUTE ENTERING AIR TEMPURATURE EXHAUST FAN EXTERNAL STATIC PRESSURE EXHAUST DEGREES FAHRENHEIT FEET PER MINUTE HORSEPOWER INCHES INCHES WATER GAUGE KILOWATT LEAVING AIR TEMPURATURE POUNDS THOUSANDS OF BTU / HOUR NOT APPLICABLE
NTS RPM SPD SQ FT TYP UOI	NOT TO SCALE REVOLUTIONS PER MINUTE STATIC PRESSURE DROP SQUARE FEET TYPICAL UNLESS OTHERWISE INDICATED

WALL HEATER

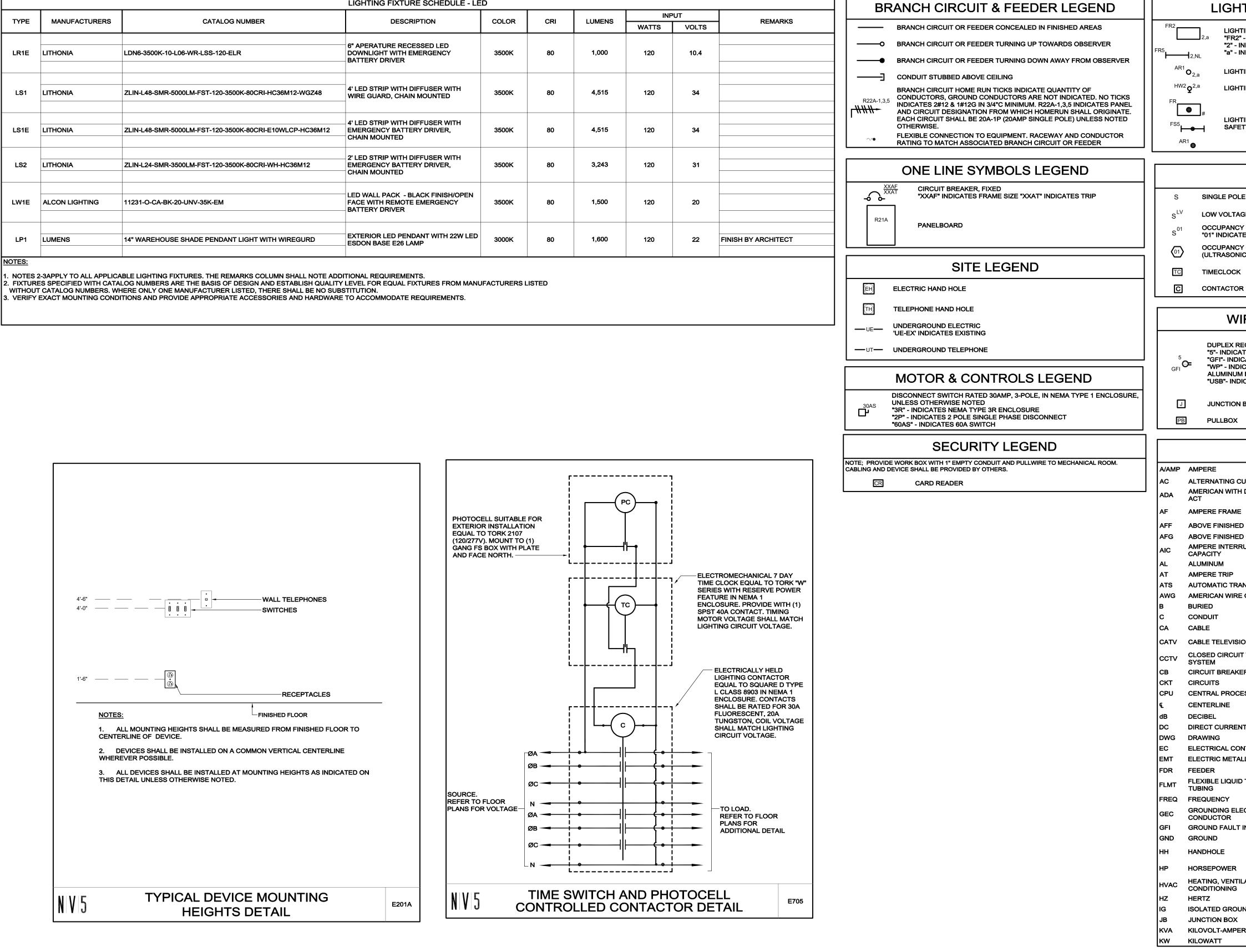
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			LIGHTING FIXTURE SCHEDULE - LE	D	
TYPE	MANUFACTURERS	CATALOG NUMBER	DESCRIPTION	COLOR	с
LR1E	LITHONIA	LDN6-3500K-10-L06-WR-LSS-120-ELR	6" APERATURE RECESSED LED DOWNLIGHT WITH EMERGENCY BATTERY DRIVER	3500K	8
LS1	LITHONIA	ZLIN-L48-SMR-5000LM-FST-120-3500K-80CRI-HC36M12-WGZ48	4' LED STRIP WITH DIFFUSER WITH WIRE GUARD, CHAIN MOUNTED	3500K	8
LS1E	LITHONIA	ZLIN-L48-SMR-5000LM-FST-120-3500K-80CRI-E10WLCP-HC36M12	4' LED STRIP WITH DIFFUSER WITH EMERGENCY BATTERY DRIVER, CHAIN MOUNTED	3500K	8
LS2	LITHONIA	ZLIN-L24-SMR-3500LM-FST-120-3500K-80CRI-WH-HC36M12	2' LED STRIP WITH DIFFUSER WITH EMERGENCY BATTERY DRIVER, CHAIN MOUNTED	3500K	8
LW1E	ALCON LIGHTING	11231-O-CA-BK-20-UNV-35K-EM	LED WALL PACK - BLACK FINISH/OPEN FACE WITH REMOTE EMERGENCY BATTERY DRIVER	3500K	8
LP1	LUMENS	14" WAREHOUSE SHADE PENDANT LIGHT WITH WIREGURD	EXTERIOR LED PENDANT WITH 22W LED ESDON BASE E26 LAMP	3000K	8

WITHOUT CATALOG NUMBERS. WHERE ONLY ONE MANUFACTURER LISTED, THERE SHALL BE NO SUBSTITUTION. . VERIFY EXACT MOUNTING CONDITIONS AND PROVIDE APPROPRIATE ACCESSORIES AND HARDWARE TO ACCOMMODATE REQUIREMENTS.



LIGHTING FIXTURE LEGEND

LIGHTING FIXTURE (SEE LIGHTING FIXTURE SCHEDULE) "FR2" - INDICATES LIGHTING FIXTURE TYPE "2" - INDICATES CIRCUIT NUMBER "a" - INDICATES SWITCH CONTROL

LIGHTING FIXTURE

LIGHTING FIXTURE WALL MOUNTED

LIGHTING FIXTURE SHADING INDICATES FIXTURE EMERGENCY (LIFE SAFETY) POWER SOURCE

SWITCH LEGEND

SINGLE POLE SWITCH, RATED 20A, 120/277V

LOW VOLTAGE SWITCH

OCCUPANCY SENSOR, RECESS WALL MOUNTED "01" INDICATES SINGLE CIRCUIT OUTPUT

OCCUPANCY SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY (ULTRASONIC,PASSIVE IFRARED)

TIMECLOCK

WIRING DEVICE LEGEND

DUPLEX RECEPTACLE, GROUNDING TYPE, RATED 20A, 125V "5"- INDICATES CIRCUIT NUMBER "GFI"- INDICATES INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER "WP" - INDICATES WEATHERPROOF. PROVIDE 'IN USE' COVER AND CAST ALUMINUM BOX. "USB"- INDICATES TYPE C/A USB CHARGING PORT

JUNCTION BOX

ABBRE	ITH DISABILITIESMCBMAIN CIRCUIT BREAKERMEMECMASSACHUSETTS ELECTRICAL CODEMEMECMASSACHUSETTS ELECTRICAL CODEHED FLOORM/GMOTOR/GENERATOR SETHED GRADEMHMANHOLEHED GRADEMLOMAIN LUGS ONLYMTDMOUNTEDMCBMOUNTEDMTDMOUNTEDMTDMOUNTEDRANSFER SWITCHNCNCNORMALLY OLOSED CONTACTIRE GAUGENECNONORMALLY OPEN CONTACTNTSNOT TO SCALE#NUMBERISIONOPDOVER CURRENT PROTECTION DEVICESUIT TELEVISIONPOSSECTIONSAKERPVCPOLYVINYL CHLORIDEPWRPOWERDCESSING UNITRGSRIGID GALVANIZED STEELRMSROOT MEAN SQUARE VALUERMSSOLID NEUTRALCONTRACTORSWBDSWITCHBOARDTALLIC TUBINGTBTERMINALLUD TIGHT METALLTERMLUD TIGHT METALLTERMLIT INTERRUPTINGTYPTYPTYPICALUNOUNDERGROUNDUNOUNDERGROUNDUNOUNDERGROUNDUNOUNDERGROUNDRUPSMIDUNOUNSHIELDED THISTED-PAIRYYYUPSICEMIDUNSHIELDED TWISTED-PAIRYVOLTS	
E	кwн	KILOWATT HOURS
- NATING CURRENT	LTG	
CAN WITH DISABILITIES		
E FRAME		MASSACHUSETTS ELECTRICAL
FINISHED FLOOR	M/G	
FINISHED GRADE		
E INTERRUPTING TY		
IUM	MTD	MOUNTED
E TRIP	MTG	MOUNTING
ATIC TRANSFER SWITCH	NC	NORMALLY CLOSED CONTACT
AN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
)	NO	NORMALLY OPEN CONTACT
п	NTS	NOT TO SCALE
	#	NUMBER
TELEVISION	OPD	
D CIRCUIT TELEVISION	POS	
T BREAKER	PVC	POLYVINYL CHLORIDE
rs	PWR	POWER
AL PROCESSING UNIT	RGS	RIGID GALVANIZED STEEL
RLINE	RMS	ROOT MEAN SQUARE VALUE
L	RPM	REVOLUTIONS PER MINUTE
CURRENT	SPD	SURGE PROTECTIVE DEVICE
١G	SN	SOLID NEUTRAL
RICAL CONTRACTOR	SWBD	SWITCHBOARD
RIC METALLIC TUBING	тв	TERMINAL BLOCK
र	TEL	TELEPHONE
LE LIQUID TIGHT METALLIC	TERMN	TERMINAL
ENCY	TSP	TWISTED SHIELDED-PAIR
DING ELECTRODE CTOR	TVSS	
D FAULT INTERRUPTING	TYP	TYPICAL
D	UG	UNDERGROUND
OLE	UNO	UNLESS NOTED OTHERWISE
POWER	UPS	
G, VENTILATING AND AIR TONING	UTP	UNSHIELDED TWISTED-PAIR
	V	VOLTS
ED GROUND	VA	VOLT-AMPERE
ON BOX	VSD	VARIABLE SPEED DRIVE
LT-AMPERE	W	WATTS
	WP	WEATHERPROOF

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Revisions

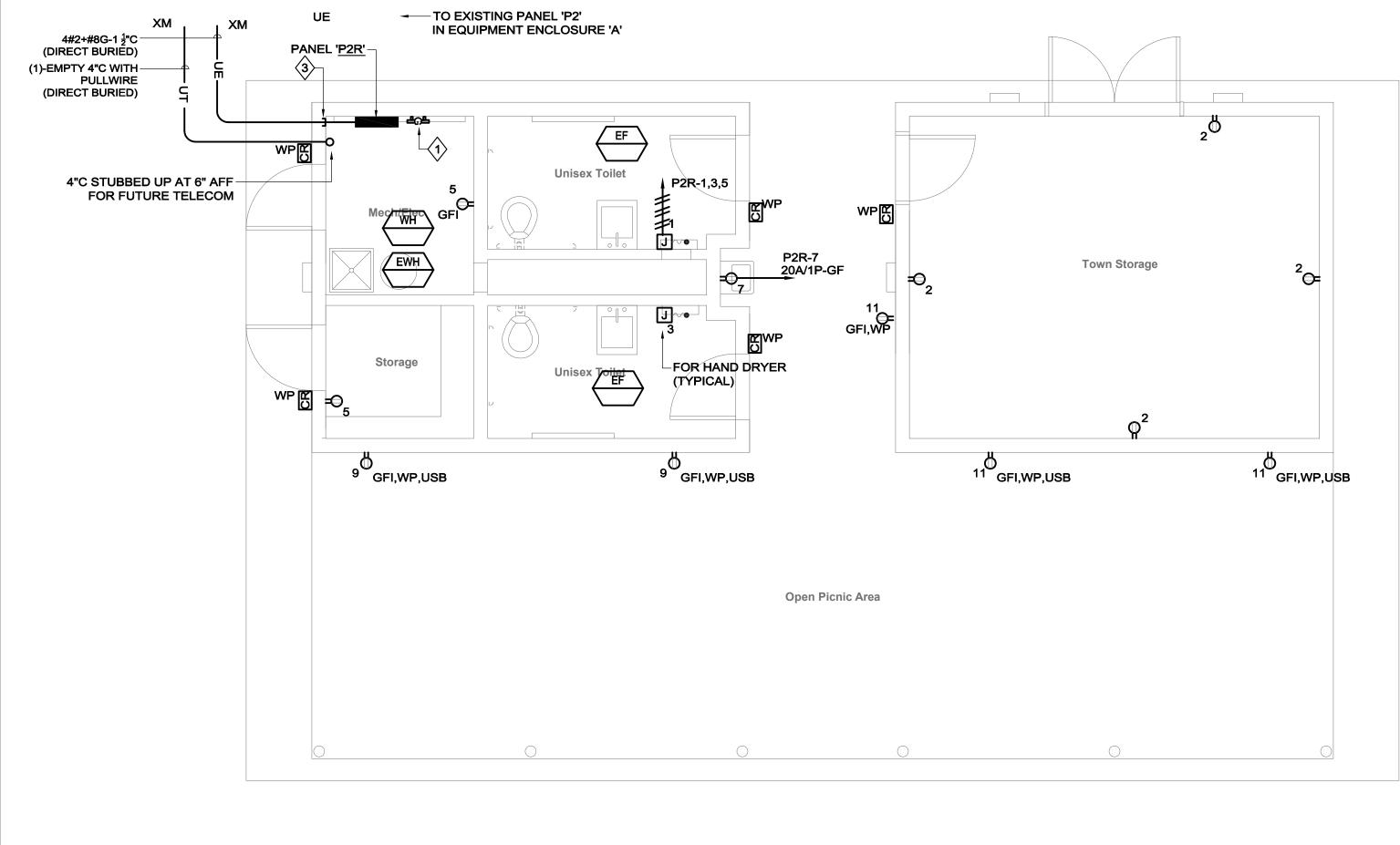
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														MECH	HANICAL	EQUIPM	ENT SCH	EDULE											
				LOAD									STARTER							POWER	SOURCE			CONN	ECTION				
	STARTER LOCATION								0\	ERCURRE	NT			INDI	CATING LI	GHTS		AUXILIARY	Y							DISC		BRANCH CIRCUIT	REMARKS
	LOCATION	HP	FLA	KVA	VOLT	PH	NEMA SIZE	TYPE	СВ	RK1 FUSE	MCP	PB	HOA	R	G	A	СРТ		TACTS NC	PANEL	C/B	FLEX	JB	REC	AS	AF	NEMA		
EWH			22	4.5	208	1	-	-	-	-	-	-	-	-	-	-	-	-	-	P2R-13	30A/2P	Х	-	-	30		1	2#10+#10-3/4"C	
WН			10	2	208	1	-	-	-	-	-	-	-	-	-	-	-			P2R-17	15A/2P	Х	-	-	30	15	1	2#12+#12G-3/4"C	
EF			0.16	0.02	120	1	-	-	-	-	-	-	-	-	-	-	-		-	P2R-21	15A/1P	X	-	-	MMS		1	2#12+#12G-3/4"C	
NOTES	S:															KEY													

. NOTES 2-6 APPLY TO ALL APPLICABLE LOADS.

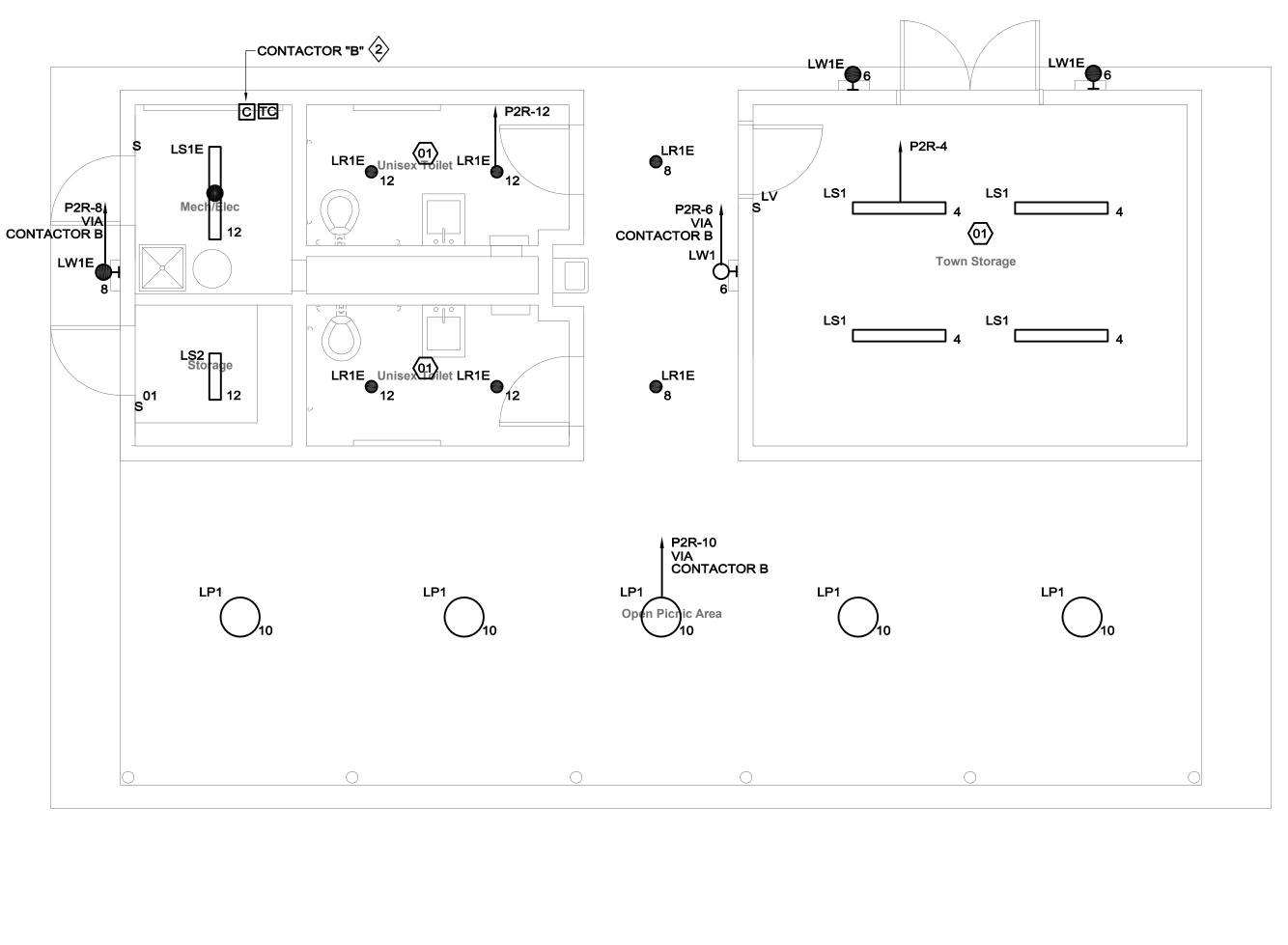
2. PROVIDE THERMAL OVERLOAD UNITS FOR ALL STARTERS SIZED TO MATCH LOAD NAMEPLATE AND NEC REQUIREMENTS. 3. BRANCH CIRCUIT WIRING METHODS SHALL BE AS NOTED ON THE DRAWINGS AND/OR SPECIFICATIONS FOR THE APPLICABLE LOCATION. THE FINAL THREE FEET (MAXIMUM) SHALL BE FLEXIBLE METAL OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT. 4. COPPER BRANCH CIRCUIT CONDUCTOR SIZING BASED UPON NEC TABLE 310.15(B)(16). MAKE ADJUSTMENTS TO CONDUCTORS FOR TEMPERATURE OR VOLTAGE DROP THAT EXCEED NEC AND SPECIFICATION CRITERIA.

. RACEWAY SIZES ARE BASED UPON GRSC AND LFMC WITH THWN CONDUCTORS. 6. FUSES FOR DISCONNECT SWITCHES SHALL BE CLASS RK5.



FVNR FULL VOLTAGE NON-REVERSING FVR FULL VOLTAGE REVERSING 2S1W TWO SPEED SINGLE WINDING 2S2W TWO SPEED TWO WINDING RVAT REDUCED VOLTAGE AUTOTRANSFORMER RVPW REDUCED VOLTAGE PART WINDING RVYDOT REDUCED VOLTAGE WYE DELTA OPEN TRANSITION RVYDCT REDUCED VOLTAGE WYE DELTA CLOSED TRANSITION MMS MANUAL MOTOR STARTER CB CIRCUIT BREAKER MCP MOTOR CIRCUIT PROTECTOR PB START AND STOP PUSH BUTTON HOA HAND-OFF-AUTOMATIC SELECTOR SWITCH CPT CONTROL POWER TRANSFORMER VFD VARIABLE FREQUENCY DRIVE W/O BYPASS VFD/B VARIABLE FREQUENCY DRIVE W/ BYPASS CNTCR CONTACTOR - NO THERMAL OVERLOAD

	KEYNOTES					
$\langle 1 \rangle$	SEE DETAIL E005 ON DRAWING E200 FOR ADDITIONAL INFORMATION.					
2	SEE DETAIL E705 ON DRAWING E000 FOR ADDITIONAL INFORMATION.					
3	CONDUIT SHALL BE RUN BELOW FINISHED FLOOR SLAB.					
NOTES	NOTES:					
1 REFI	ER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.					



NOTES:

1. REFER TO DRAWING E000 FOR LEGEND, SYMBOLS AND GENERAL NOTES.

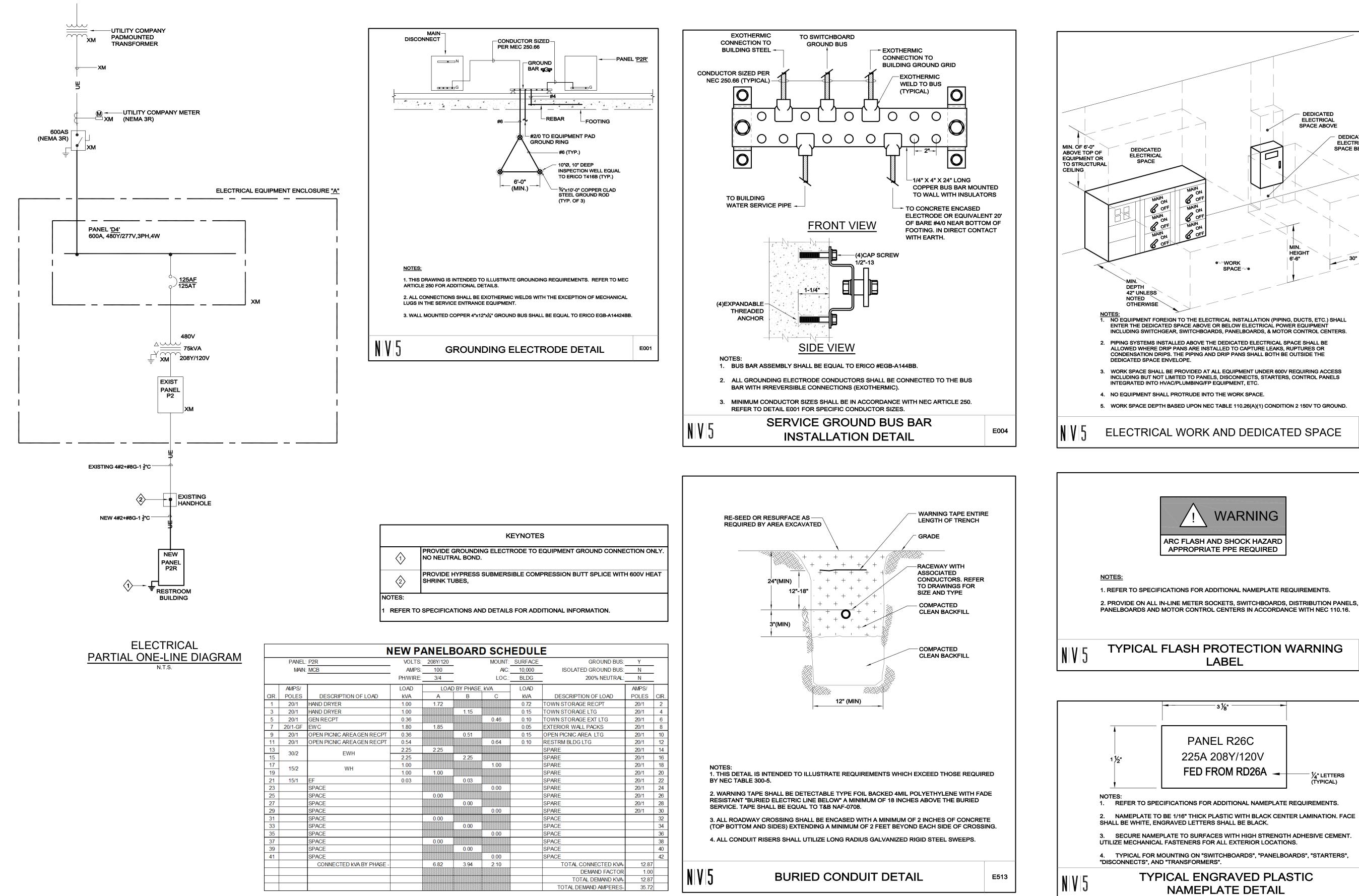
2. REFER TO ARCHITECTURAL DRAWINGS, INCLUDING BUT NOT LIMITED TO, CEILING PLANS AND ELEVATIONS FOR ASSOCIATED NOTES, MOUNTING DETAILS AND EXACT LOCATIONS OF ALL LIGHTING FIXTURES.

3. CIRCUIT NUMBERS ARE DIAGRAMMATIC. EXACT NUMBERS SHALL BE DETERMINED IN THE FIELD AND REFLECTED ON AS-BUILT DOCUMENTATION BY THE ELECTRICAL CONTRACTOR. THE ASSOCIATED CIRCUIT NUMBER AND SWITCH LEG NOMENCLATURE THAT ARE APPLIED TO EACH LIGHTING FIXTURE AND CONTROLLING DEVICE INFER INTERCONNECTING BRANCH CIRCUITRY.

4. VOLTAGE DROP HAS BEEN CONSIDERED IN THE DESIGN OF ALL BRANCH CIRCUIT AND FEEDER SIZES BASED UPON THE ILLUSTRATED EQUIPMENT LAYOUTS AND SHORTEST CONDUCTOR/RACEWAY ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVIATIONS TAKEN THAT WILL INCREASE CONDUCTOR/RACEWAY ROUTING LENGTHS. BRANCH CIRCUITS LONGER THAN 75' FOR 120V AND 175' FOR 277V FROM PANEL TO LAST OUTLET SHALL BE INCREASED A MINIMUM OF ONE SIZE ABOVE THAT SPECIFIED TO LIMIT VOLTAGE DROP TO LESS THAN 3%.

5. BRANCH CIRCUITRY SHALL BE INSTALLED IN CONDUIT FROM THE PANELBOARD TO THE FIRST OUTLET AND/OR WHERE EXPOSED. LBRANCH CIRCUITRY MAY BE TYPE MC CABLE WHERE CONCEALED ABOVE SUSPENDED CEILINGS OR IN METAL STUD WALLS.

file: birch meadow cd.rvt



		Ν	IEW P	ANELE	BOARI	D SCH	E
	PANEL:	P2R	VOLTS:	208Y/120		MOUNT:	5
	MAIN:	MCB	AMPS:	100		AIC:	
			PH/WIRE:	3/4		LOC.:	
	AMPS/		LOAD	LOAD	BY PHASE	, kVA	
CIR.	POLES	DESCRIPTION OF LOAD	kVA	Α	В	С	
1	20/1	HAND DRYER	1.00	1.72			
3	20/1	HAND DRYER	1.00		1.15		
5	20/1	GEN RECPT	0.36			0.46	
7	20/1-GF	EWC	1.80	1.85			
9	20/1	OPEN PICNIC AREA GEN RECPT	0.36		0.51		
11	20/1	OPEN PICNIC AREAGEN RECPT	0.54			0.64	
13	30/2	EWH	2.25	2.25			
15	30/2	Evvn	2.25		2.25		
17	15/2	WH	1.00			1.00	
19	15/2	****	1.00	1.00			
21	15/1	EF	0.03		0.03		
23		SPACE				0.00	
25		SPACE		0.00			
27		SPACE			0.00		
29		SPACE				0.00	
31		SPACE		0.00			
33		SPACE			0.00		
35		SPACE				0.00	
37		SPACE		0.00			
39		SPACE			0.00		
41		SPACE				0.00	
		CONNECTED KVA BY PHASE -		6.82	3.94	2.10	

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Revisions date no.

4. TYPICAL FOR MOUNTING ON "SWITCHBOARDS", "PANELBOARDS", "STARTERS", TYPICAL ENGRAVED PLASTIC E303 NAMEPLATE DETAIL

PANEL R26C 225A 208Y/120V FED FROM RD26A 🛶 $\frac{1}{4}$ " LETTERS (TYPICAL) 1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.

— з <u>1⁄8</u>"

E305 LABEL

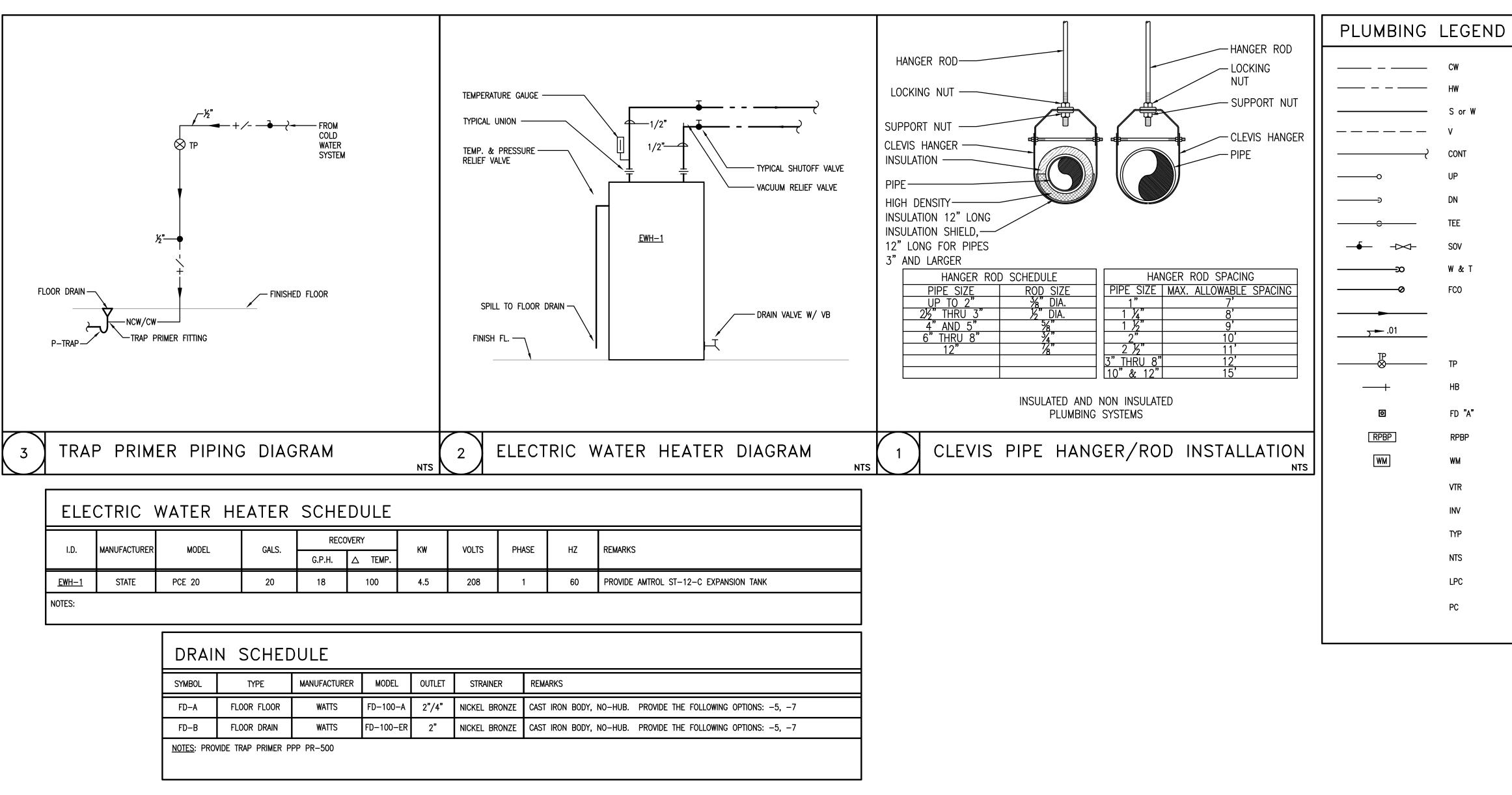
2. PROVIDE ON ALL IN-LINE METER SOCKETS, SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS AND MOTOR CONTROL CENTERS IN ACCORDANCE WITH NEC 110.16. TYPICAL FLASH PROTECTION WARNING

WARNING ARC FLASH AND SHOCK HAZARD APPROPRIATE PPE REQUIRED 1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.

3. WORK SPACE SHALL BE PROVIDED AT ALL EQUIPMENT UNDER 600V REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, STARTERS, CONTROL PANELS INTEGRATED INTO HVAC/PLUMBING/FP EQUIPMENT, ETC 4. NO EQUIPMENT SHALL PROTRUDE INTO THE WORK SPACE. 5. WORK SPACE DEPTH BASED UPON NEC TABLE 110.26(A)(1) CONDITION 2 150V TO GROUND. ELECTRICAL WORK AND DEDICATED SPACE

E213

- DEDICATED ELECTRICAL SPACE ABOVE DEDICATED ELECTRICAL SPACE BELOW DEDICATED ELECTRICAL SPACE MAIN OF MAIN MAIN B OFF HEIGHT 30" 6'-6" •~~WORK SPACE~~ DEPTH 42" UNLESS NOTED OTHERWISE NO EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION (PIPING, DUCTS, ETC.) SHALL ENTER THE DEDICATED SPACE ABOVE OR BELOW ELECTRICAL POWER EQUIPMENT INCLUDING SWITCHGEAR, SWITCHBOARDS, PANELBOARDS, & MOTOR CONTROL CENTERS. 2. PIPING SYSTEMS INSTALLED ABOVE THE DEDICATED ELECTRICAL SPACE SHALL BE ALLOWED WHERE DRIP PANS ARE INSTALLED TO CAPTURE LEAKS, RUPTURES OR CONDENSATION DRIPS. THE PIPING AND DRIP PANS SHALL BOTH BE OUTSIDE THE DEDICATED SPACE ENVELOPE.



				RECO	VERY					
I.D.	MANUFACTURER	MODEL	GALS.	G.P.H.	△ TEMP.	KW	VOLTS	PHASE	ΗZ	REMARKS
<u>EWH-1</u>	STATE	PCE 20	20	18	100	4.5	208	1	60	PROVIDE AMTRO
NOTES:										

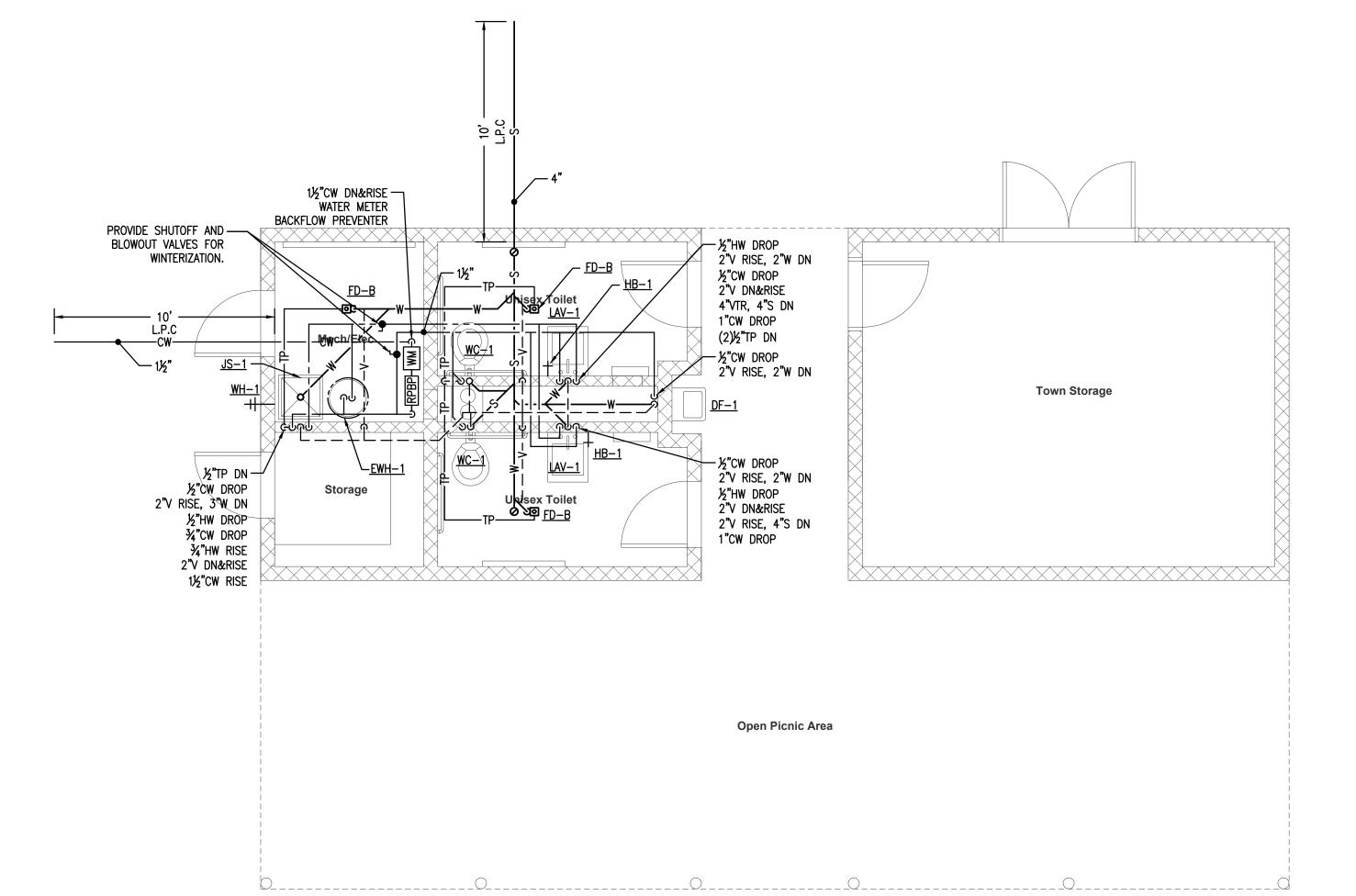
SYMBOL	TYPE	MANUFACTURER	MODEL	OUTLET	STRAINER	REMARKS	
FD-A	FLOOR FLOOR	WATTS	FD-100-A	2"/4"	NICKEL BRONZE	CAST IRON BODY, NO-HUB.	PROV
FD-B	FLOOR DRAIN	WATTS	FD-100-ER	2"	NICKEL BRONZE	CAST IRON BODY, NO-HUB.	PROV
NOTES PROV	VIDE TRAP PRIMER P	PP PR-500					

SYMBOL	DESCRIPTION		FIXTURE				FIXTURE			SERVICES				REMARKS
	DESCRIPTION	MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTURER	MODEL	TYPE	S/W	V	CW	HW	TW	
<u>WC-1</u>	WATER CLOSET	AMERICAN STANDARD	2257.101	WALL HUNG	1.28 GPF	AMERICAN STANDARD	6047.121.002	1.28 GPF MANUAL	4"	2"	1"	-	-	ADA COMPLIANT. VITREOUS CHINA, ELONGATED, SEAT 5901.100. PROVIDE WALL CARRIER.
<u>LAV-1</u>	LAVATORY	тото	LT308.4	WALL HUNG	20-1/2"x27"	KOHLER	K-15240-4NDRA	0.5 GPM MANUAL	2"	2"	1/2"	1/2"		ADA COMPLIANT. PROVIDE OFFSET P-TRAP WITH GRID DRAIN & TRUEBRO LAVGUARD INSULATION KIT ON EXPOSED PIPING. PROVIDE ANGLE STOPS. PROVIDE CONCEALED CARRIER ARMS.
<u>JS-1</u>	JANITORS SINK	FIAT	MSB2424	FLOOR MOUNT	24"x24"	CHICAGO	879 CP	12 GPM MANUAL	3"	2"	1/2"	1/2"	-	FURNISH AND INSTALL CHECK VALVES ON H&CW SUPPLIES. PROVIDE FIAT MOP HANGER MODEL $\#$ 899–C AND BUMPER PLATE MODEL $\#$ 1239–BB.
<u>DF-1</u>	DRINKING FOUNTAIN	ELKAY	EDFP214C	WALL HUNG	_	-	_	-	1 1/2"	1 1/2"	1/2"	I	-	ADA COMPLIANT, STAINLESS STEEL
<u>HB-1</u>	HOSE BIBB	CHICAGO	952-CP	-	-	-	_	_	-	-	1/2"	-	-	_
<u>WH-1</u>	WALL HYDRANT	WATTS	HY-725	-	-	-	_	-	-	_	1/2"	_	-	NON-FREEZE WITH BOX AND LOOSE KEY

1. ALL ADA FIXTURES SHALL BE MA PLUMBING BOARD APPROVED AND INSTALLED PER MAAB REQUIREMENTS. 2. PC TO PROVIDE POWERS LFLM495 THERMOSTATIC TEMPERING VALVES FOR ALL LAVATORIES, AND HAND SINKS WITHIN KITCHEN.

CW	COLD WATER
HW	HOT WATER
S or W	SOIL OR WASTE
۷	VENT
CONT	CONTINUATION
UP	PIPE RISE OR UP
DN	PIPE DROP OR DOWN
TEE	PIPE TEE
SOV	SHUT-OFF VALVE
W & T	WASTE & TRAP
FCO	FLUSH FLOOR CLEANOUT
	ARROW INDICATES DIRECTION OF FLOW
	ARROW INDICATES DIRECTION OF SLOPE
TP	TRAP PRIMER
HB	HOSE BIBB
FD " A"	FLOOR DRAIN & TYPE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
WM	WATER METER
VTR	VENT THRU ROOF
INV	INVERT
TYP	TYPICAL
NTS	NOT TO SCALE
LPC	LIMIT OF PLUMBING CONTRACT
PC	PLUMBING CONTRACTOR

hing F e: ir SSB Eng 146 Fro Scituate T: 857-5 Building Resourc 66 Main North Ea T: 508-2 NV5 200 Bric Andover	
	Restroom & Support Building PLUMBING LEGEND
BUILDIN 66 Main Street N. Easton, MA T 508.230.02 F 508.230.02 ber@ber-enginee	50 Warwick, RI 02886 55 T 401.384.7682
Revision	
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NV5 200 Brickstone Square Andover, MA 01810 T: 978. 296.6223
Birch Meadow Restroom & Support Building PLUMBING FLOOR PLAN
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