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**FOR BID
01-23-2026**

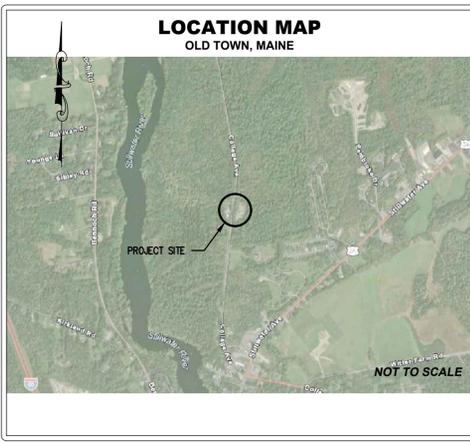
PROJECT #2023085

**CARPENTER ASSOCIATES
CONSULTING ENGINEERS
687 STILLWATER AVENUE OLD TOWN, MAINE 04468**

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COORDINATE WITH NEW WELL LOCATION
WELL CONTRACTOR TO INSTALL WATER LINE AND ELECTRICAL TO MECHANICAL/ELECTRICAL ROOM. WATER LINE WILL PENETRATE SLAB AND ELECTRICAL WILL BE WIRED TO PANEL BY OTHERS.

DRIP EDGE FILTER #1 (SEE DETAIL)

CONCRETE EQUIPMENT PAD

DRIP EDGE FILTER #1 (SEE DETAIL)

COMPLETELY REMOVE EXISTING STRUCTURES, BACKFILL, LOAM, SEED DISTURBED AREAS. (BY UMAINE)

INV. AT FOUNDATION INV. = 142.75'

FOUNDATION DRAIN TO DAYLIGHT INV. = 142.00'

6" SDR 35 1/2" FT TO SEPTIC TANK

COMPLETELY REMOVE EXISTING STRUCTURES, BACKFILL, LOAM, SEED DISTURBED AREAS. (BY UMAINE)

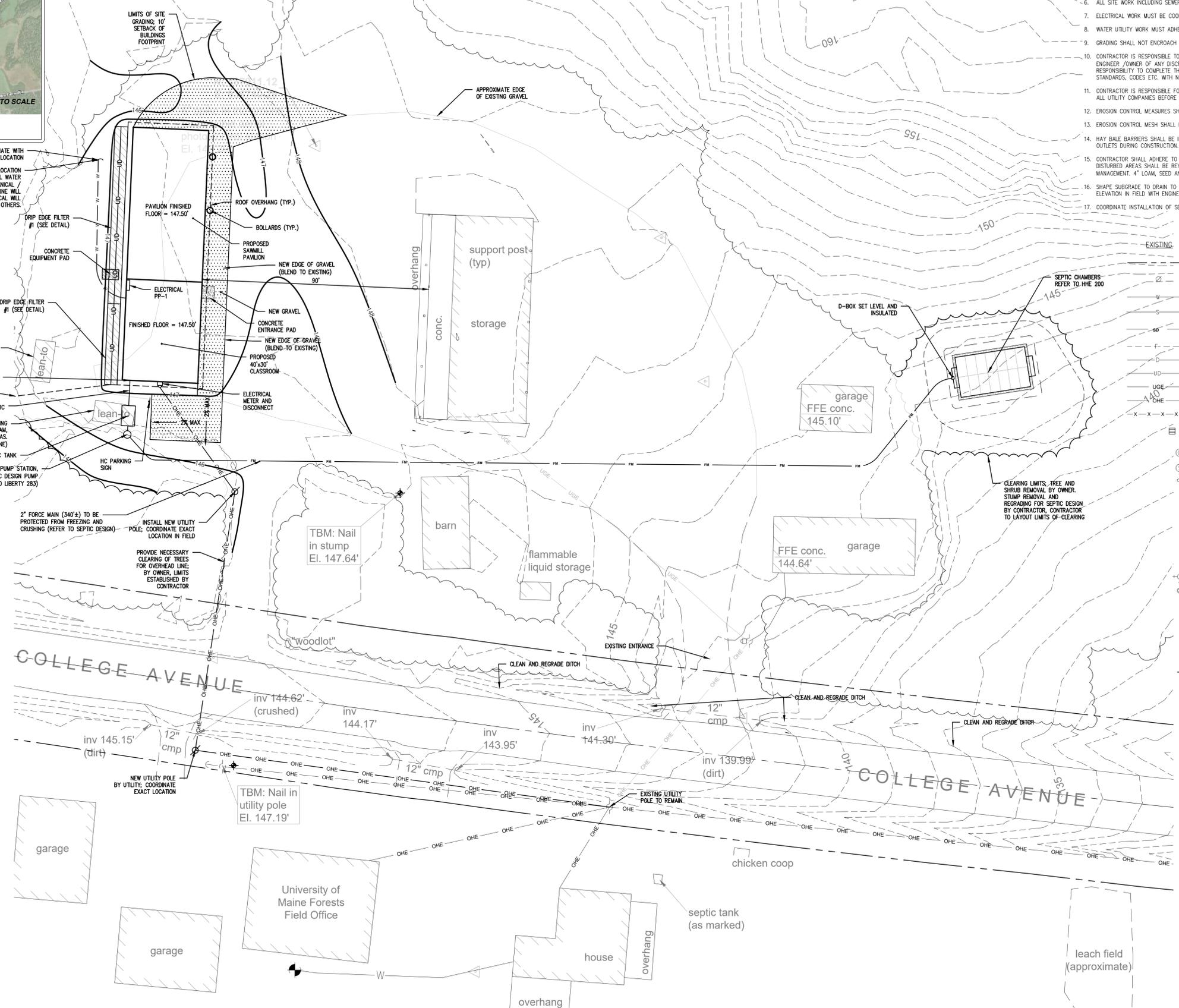
1000 GAL SEPTIC TANK

4" MANHOLE PUMP STATION (REFER TO SEPTIC DESIGN PUMP EQUAL TO LIBERTY 283)

2" FORCE MAIN (340±) TO BE PROTECTED FROM FREEZING AND CRUSHING (REFER TO SEPTIC DESIGN)

INSTALL NEW UTILITY POLE; COORDINATE EXACT LOCATION IN FIELD

PROVIDE NECESSARY CLEARING OF TREES FOR OVERHEAD LINES; BY OWNER, LIMITS ESTABLISHED BY CONTRACTOR



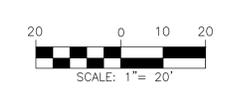
- GENERAL NOTES:**
1. PLAN BASED ON A SURVEY COMPLETED BY PUSGA & DAY, DATED: 06/14/2024.
 2. CONTRACTOR SHALL CONTACT DIGSAFE PRIOR TO ANY EXCAVATION WORK.
 3. CONSTRUCTION ACTIVITIES OCCURRING AFTER NOVEMBER 15TH SHALL INCORPORATE A WINTER CONSTRUCTION PLAN WHICH SHALL BE APPROVED BY THE TOWN.
 4. CONTRACTOR TO ADD 4" RIGID INSULATION OVER ALL PIPES CROSSING THE DRIVEWAY, WALKWAY OR PARKING LOT AREA AND BETWEEN ALL PIPES.
 5. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT SEDIMENT AND OTHER POLLUTANTS FROM ENTERING EXISTING DRAINAGE WAYS AND OTHER STORM WATER CONVEYANCES LOCATED ON THE SITE. CONTRACTOR MUST ADHERE TO BEST MANAGEMENT OF PRACTICES.
 6. ALL SITE WORK INCLUDING SEWER, STORM, ETC. MUST MEET TOWN STANDARDS.
 7. ELECTRICAL WORK MUST BE COORDINATED WITH UNIVERSITY OF MAINE, AND VERSANT.
 8. WATER UTILITY WORK MUST ADHERE TO WATER DISTRICT STANDARDS.
 9. GRADING SHALL NOT ENCRDACH ON NEIGHBORING PROPERTIES.
 10. CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS PRIOR TO BID. FAILURE TO NOTIFY ENGINEER /OWNER OF ANY DISCREPANCY PRIOR TO BID WILL NOT ALLEVIATE THE CONTRACTORS RESPONSIBILITY TO COMPLETE THE INTENT OF THE PROJECT ADHERING TO ALL APPLICABLE STANDARDS, CODES ETC. WITH NO ADDITIONAL COST TO THE OWNER
 11. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING UTILITIES WITH ALL UTILITY COMPANIES BEFORE BEGINNING CONSTRUCTION.
 12. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING OF CONSTRUCTION.
 13. EROSION CONTROL MESH SHALL BE INSTALLED ON ALL SLOPES STEEPER THAN 3:1.
 14. HAY BALE BARRIERS SHALL BE INSTALLED AROUND EXISTING CATCH BASINS, AND PIPE INLETS / OUTLETS DURING CONSTRUCTION.
 15. CONTRACTOR SHALL ADHERE TO BEST MANAGEMENT PRACTICES DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE REVEGETATED AND RECEIVE PROPER EROSION CONTROL MANAGEMENT. 4" LOAM, SEED AND MULCH ALL DISTURBED AREAS.
 16. SHAPE SUBGRADE TO DRAIN TO DAYLIGHT OR UNDERDRAIN. COORDINATE OUTLET LOCATION AND ELEVATION IN FIELD WITH ENGINEER AND UMAINE.
 17. COORDINATE INSTALLATION OF SEPTIC SYSTEM BASED ON THE DESIGN BY WRC.

LEGEND

EXISTING	PROPOSED
PROPERTY LINE	—
UTILITY POLE	⊙
WATER	W
SEWER	S
STORM DRAIN	SD
FOUNDATION DRAIN	F
DRAIN LINE	UD
UNDER DRAIN	UD
UNDERGROUND ELECTRIC	UGOE
OVERHEAD ELECTRIC	OHE
FENCING	-X-X-X-X-

⊙	CATCH BASIN/FIELD DRAIN - CB/FD
⊙	DRAIN MANHOLE (DMH)
⊙	SEWER MANHOLE (SMH)
⊙	SIGNAGE
⊙	BOLLARD
⊙	EXTERIOR WALL MOUNT LIGHT
⊙	POLE MOUNTED SITE LIGHT
⊙	PAD MOUNTED TRANSFORMER
⊙	PULL BOX
⊙	HYDRANT
⊙	GATE VALVE
⊙	THRUST BLOCK
⊙	HAY BALES
⊙	SEDIMENT BASIN
⊙	NEW GRAVEL
⊙	BENCH MARK

(NOT ALL SYMBOLS MAY BE USED)



FOR BID
01-23-2026



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687 STILLWATER AVENUE-OLD TOWN-MAINE 04468

REVISIONS

NO.	DATE	DESCRIPTION



UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
PROPOSED SITE PLAN

Drawn: JE
Checked: RB
Scale: 1" = 20'
Date: 06-18-2024
Project No: 2023085
Sheet Number:

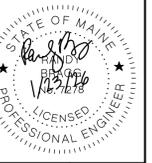
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Jan 29, 2026 - 2:03pm
H:\Projects\2023\2023085 UMaine DeMeritt Forest Sawmill-Classroom Old Town\Drawings\2023085 - SITE_V9.dwg janh



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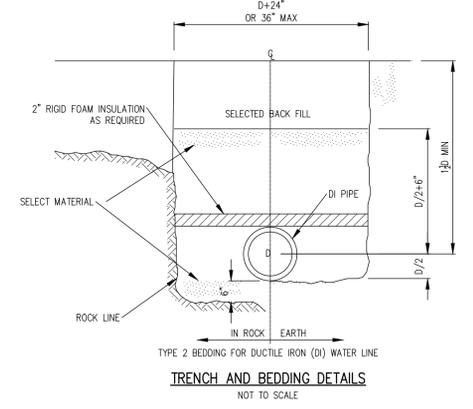
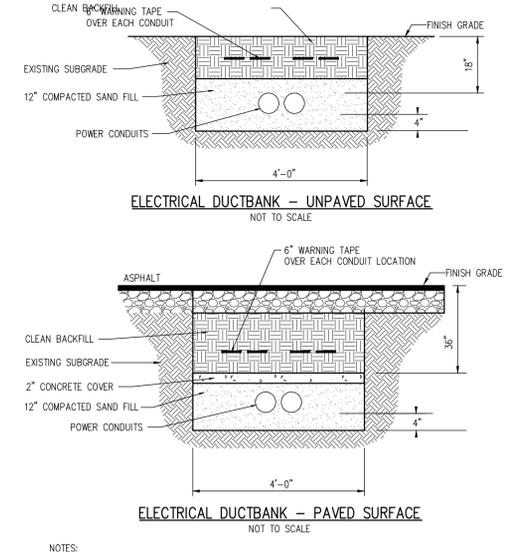
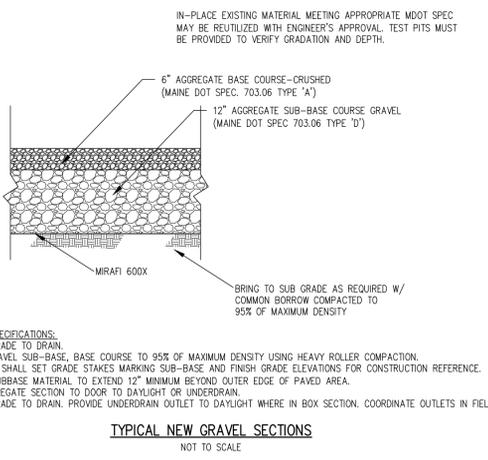
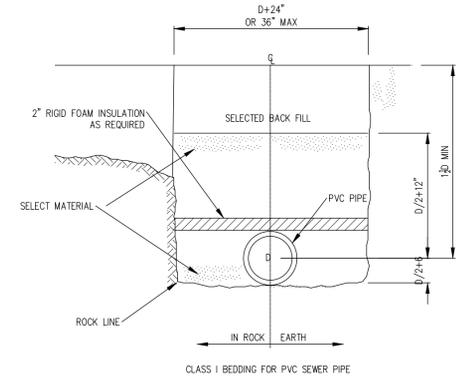
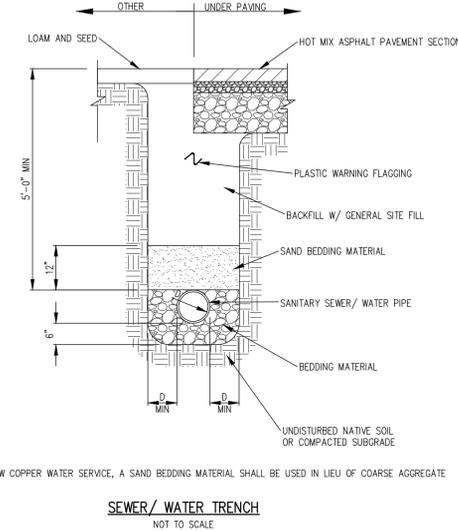
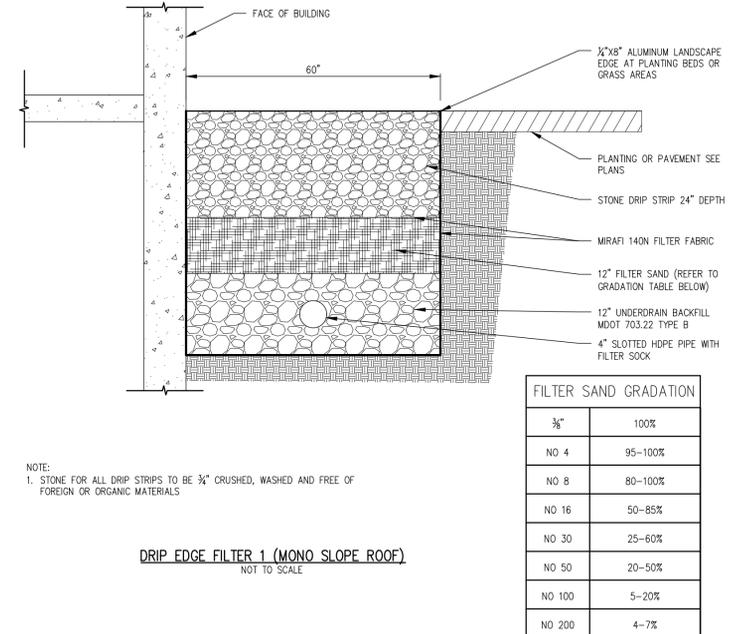
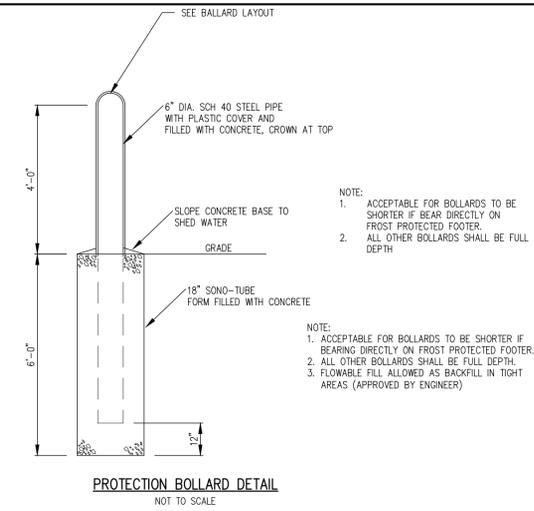
NO.	DATE	DESCRIPTION



UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
SITE DETAILS

Drawn: JE
Checked: RB
Scale: AS NOTED
Date: 06-18-2024
Project No: 2023085
Sheet Number:

C4



FOR BID
01-23-2026

GENERAL CONDITIONS:

- 1. BUILDING AND DESIGN CODES:
A. 2021 MAINE UNIFORM BUILDING CODE AND ENERGY CODE "MUBEC" CONSISTS OF THE FOLLOWING APPLICABLE CODE: ALL CODES SHALL INCLUDE CHANGES/AMENDMENTS BY THE STATE OF MAINE.
B. INTERNATIONAL BUILDING CODE 2021
C. AISC MANUAL OF STEEL CONSTRUCTION, SIXTEENTH EDITION, ALLOWABLE STRESS DESIGN AND CODE OF STANDARD PRACTICE.
D. AWS D1.1-2020 - STRUCTURAL WELDING CODE - STEEL
E. ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, THE LATEST EDITION
F. ACI DETAILING MANUAL, PUBLICATION 5100-16 LATEST ADDITION.
G. STRUCTURAL WELDED WIRE REINFORCEMENT MANUAL OF STANDARD PRACTICE, WIRE REINFORCEMENT INSTITUTE
H. CRSI MANUAL OF STANDARD PRACTICE, THE LATEST EDITION
I. ASCE/SEI 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.

GENERAL NOTES:

- 1. STRUCTURAL DESIGN FOR BUILDING BASED ON INFORMATION/DIMENSIONS PROVIDED.
2. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM ALL DIMENSIONS AND/OR EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION.
3. COORDINATE AND PROVIDE SLEEVES FOR ALL PENETRATIONS.
4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
6. PROVIDE AND COORDINATE STRUCTURAL MEMBERS WITH ARCHITECTURAL PLANS WITH ALL WINDOWS, DOORS, AND PENETRATIONS.
7. SUBMIT ALL MANUFACTURERS TECHNICAL PRODUCT SUSTAINING THAT ALL COMPONENTS AS NOTED ON SCHEDULES TO MEET AND CONFORM ALL REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
8. CONTRACTOR SHALL INCLUDE AS PART OF THEIR BID ALL PERMIT COSTS AND FEES, INCLUDING THOSE FOR UTILITIES.
9. CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE PRIOR TO THE BID TO CLEARLY EXAMINE AND UNDERSTAND THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE ALL REQUIRED ALLOWANCES IN THEIR BID. NO ALLOWANCE SHALL BE MADE FOR ERROR RESULTING FROM CONTRACTOR'S FAILURE TO VISIT THE SITE, REVIEW THE COMPLETE DOCUMENTS, AND TO ASK THE ENGINEER FOR CLARIFICATION ON ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR UNFORESEEN CONDITIONS.

FOUNDATION NOTES (SOIL SUPPORTED):

- 1. ALLOWABLE BEARING CAPACITY 2,500 PSF, SEE GEOTECHNICAL REPORT #24-23525
2. FOUNDATION DESIGN BASED ON ASCE 32, AMERICAN SOCIETY OF CIVIL ENGINEERS DESIGN AND CONSTRUCTION OF FROST PROTECTED SHALLOW FOUNDATIONS.
3. SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY CHANGE IN CONDITION, FROM RAIN OR FROST. SURFACE RUNOFF SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO COLLECT. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM REINFORCEMENT, AND FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE Dewatering MEASURES SHALL BE EMPLOYED.

CONCRETE NOTES:

- 1. CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION.
2. ALL CONCRETE SHALL BE 3,500 PSI, TWENTY-EIGHT DAYS AFTER POURING. POUR SLAB IN A SINGLE LAYER WITH TEMPERATURE AND UNCALIBRATED SHRINKING STEEL PLACED AT MIDPOINT OF THE SLAB THICKNESS ON NO LESS THAN SIX INCHES OF GRANULAR BASE. REBAR TO BE DEFORMED TYPE WITH YIELD STRENGTH OF 60,000 PSI.
3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
4. PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE OR SLABS.
5. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.
6. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
A) SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3" MIN.
B) FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER, 2" MIN.
C) SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER, 1.5" MIN.
7. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE TENSION LAP SPLICES AT 40 DIA. MIN. FOR ALL REINFORCING UNLESS OTHERWISE SHOWN ON PLAN.
8. WELDING OF REINFORCEMENT IS NOT PERMITTED.
9. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING.
10. ANCHOR BOLTS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELD-ABLE STEEL.
11. ALL GROUT BENEATH BASE PLATES AND BEARING PLATES SHALL BE 5,000 PSI NON-SHRINK GROUT.
12. CONTRACTOR SHALL EMPLOY TESTING LABORATORY TO INSPECT, SAMPLE AND TEST THE MATERIALS AND THE PRODUCTION OF THE CONCRETE AND SUBMIT TEST REPORTS. CONCRETE TESTING SHALL BE PERFORMED BY TECHNICIAN CERTIFIED.
SLUMP: ASTM C143 1/LOAD PLUS ONE/STRENGTH SPECIMENS
AIR CONTENT: ASTM C231 1/LOAD PLUS ONE/ STRENGTH SPECIMENS
TEMPERATURE: ASTM C1061 1/LOAD PLUS ONE/ STRENGTH SPECIMENS
COMPRESSION: ASTM C31 1 SET/ STRENGTH TEST
COMPRESSION STRENGTH: ASTM C39 1 SET/ 50 CY ONE AT 7 DAY TWO AT 28 DAY ONE RETAINED
13. ANCHOR BOLT EMBEDMENT LENGTH SHALL BE 8" MINIMUM (UNLESS OTHERWISE NOTED).
14. VAPOR BARRIER MEMBRANE INSTALLED UNDER SLAB TO BE 10 MIL NON-PERMEABLE.
15. PIER FOOTERS SHALL BE CENTERED UNDER COLUMNS UNLESS OTHERWISE NOTED.
16. STRUCTURAL FILL FOR ALL AREAS BENEATH INTERIOR SLABS SHALL BE:
10 MIL VAPOR BARRIER
2" CLEAN SAND
6" AGGREGATE BASE 703.06a TYPE B - 2" MINUS
AS REQUIRED AGGREGATE SUBBASE 703.06b TYPE D - 4" MINUS
17. SUPPORTS FOR REINFORCEMENT INCLUDING BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES FOR SPACING, SUPPORTING AND FASTENING REINFORCING BARS. USE PLASTIC, WIRE BAR TYPE SUPPORTS OR CONCRETE BLOCK SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS. WOOD, CLAY BRICK, AND OTHER UNSPECIFIED DEVICES ARE NOT ACCEPTABLE. FOR SLABS-ON-GRADE, USE SUPPORTS WITH SAND PLATES OR HORIZONTAL RUNNERS WHERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS.
18. A MINIMUM OF FOUR (4) COMPACTION TESTS WILL BE REQUIRED PER LIFT (LIFT CAN NOT EXCEED 8"). FAILING TESTS SHALL WARRANT ADDITIONAL TESTING UNTIL AT THE ENGINEERS SATISFACTION TESTING SHALL RETURN TO FOUR PER LIFT. COMPACTION SHALL BE TO 95% MAXIMUM DENSITY.
19. INTERIOR AND EXTERIOR CONCRETE SLABS SHALL RECEIVE A CURING AGENT SPRAY APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S APPLICATION RATES. CURING AGENT IS TO BE HARRIS EMULSION KONKURE CLEAR 309 OR APPROVED EQUAL. PROVIDE WATERPROOF SEALANT ON ALL EXTERIOR CONCRETE PRIOR TO BACKFILL.
20. CONSTRUCTION JOINT DOWELS TO BE SMOOTH.
21. SAW CUT AND CONSTRUCTION JOINTS AS SPECIFIED ARE JOINT FILLED AND SHALL BE INSTALLED AT A SPACING RECOMMENDED BY ACI NO GREATER THAN 15' O.C.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CONCRETE FINISH BASED ON THE MIX DESIGN, TIMING AND ENVIRONMENTAL CONDITIONS.
23. COORDINATE WITH ALL OTHER DRAWING SHEETS FOR NECESSARY UTILITY PENETRATIONS.
24. CONTRACTOR SHALL COORDINATE BUILDING GRADE PRIOR TO CONCRETE POUR.
25. UNLESS OTHERWISE NOTED ALL FOOTERS SHALL BE SUPPORTED BY 12" MIN. CLEAN CRUSHED STONE WRAPPED WITH FABRIC, WITH AN UNDERDRAIN PIPE DRAINED TO DAYLIGHT.

STRUCTURAL STEEL:

- 1. DESIGN, DETAIL, AND ERECT STRUCTURAL STEEL ELEMENTS IN ACCORDANCE WITH THE FOLLOWING:
A. AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
B. AISC MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN
C. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
D. AWS STRUCTURAL WELDING CODE, D1.1.
2. PROVIDE STRUCTURAL STEEL OF THE FOLLOWING ASTM DESIGNATIONS UNLESS NOTED OTHERWISE:
A. STRUCTURAL STEEL SHAPES: ASTM A 992
B. EDGE ANGLES, BENT PLATES, HANGERS AND BRACES: ASTM A 36
C. HOLLOW STRUCTURAL SHAPES: ASTM A 500, GRADE B
D. BASE PLATES AND MISCELLANEOUS STEEL PLATES: ASTM A 36
E. ANCHOR RODS: ASTM F 1554, GRADE 36
3. WELD MINIMUM SIZE AND STRENGTH:
A. PROVIDE MINIMUM SIZE OF FILLET WELDS AS SPECIFIED IN TABLE J2.4 OF THE AISC MANUAL.
B. PROVIDE MINIMUM EFFECTIVE THROAT THICKNESS OF PARTIAL PENETRATION GROOVE WELDS AS SPECIFIED IN TABLE J2.3 OF THE AISC MANUAL.
C. DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER ELEMENT JOINED, ON ALL SHOP AND FIELD WELDS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
D. WHERE CONNECTIONS ARE NOTED ON THE DRAWINGS AS MOMENT CONNECTIONS, PROVIDE WELDS TO DEVELOP FULL FLEXURAL CAPACITY OF THE LESSER MEMBER.
E. PROVIDE ELECTRODES FOR FIELD OR SHOP WELDING THAT CONFORM TO ASTM A 233 (CLASS 70).
4. PROVIDE BOLTS AS SPECIFIED PER CONNECTION. PROVIDE MINIMUM BOLT DIAMETER OF 3/4-INCH OR AS NOTED. PROVIDE BOLTS, NUTS AND WASHERS THAT ARE HOT DIP GALVANIZED ACCORDING TO ASTM A 153, CLASS C WHEN USED TO CONNECT STEEL ELEMENTS THAT ARE HOT DIP GALVANIZED AFTER FABRICATION.
5. STEEL FABRICATION:
A. FABRICATE AND ASSEMBLE STRUCTURAL MEMBERS/ASSEMBLIES IN SHOP TO GREATEST EXTENT POSSIBLE.
B. SPACING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE ENGINEER.
C. FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
D. CONFORM TO THE AISC CODE OF STANDARD PRACTICE, FOR ERECTION TOLERANCES. FIELD MODIFICATION TO STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE ENGINEER.
E. CLEAN STEEL OF RUST, LOOSE MIL SCALE AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR FABRICATION, FITTING UP OR WELDING.
F. DO NOT CUT STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR REVIEW AND APPROVAL OF THE ENGINEER.
10. HOT DIP GALVANIZE AFTER FABRICATION ALL STRUCTURAL STEEL AND THEIR CONNECTIONS PERMANENTLY EXPOSED TO THE OUTSIDE. ITEMS INCLUDED BUT NOT LIMITED TO:
A. SHELF ANGLES.
B. EMBEDDED PLATES IN CONCRETE
C. BUILDING CLADDING SUPPORT STEEL
11. PROVIDE GROUT FOR BASE PLATES THAT IS NON-SHRINK, NON-METALLIC GROUT WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI. COMPLETE GROUT WORK PRIOR TO PLACING ROOF CONCRETE OF A SINGLE-STORY BUILDING OR PRIOR TO PLACING SECOND FLOOR CONCRETE OF A MULTIPLE STORY BUILDING.
12. PROVIDE WASHERS FOR ALL CONNECTIONS WITH STANDARD, OVERSIZE AND SHORT-SLOTTED HOLES, FOR LONG-SLOTTED HOLES PROVIDE WASHERS OR A CONTINUOUS BAR OF SUFFICIENT SIZE TO COMPLETELY COVER THE SLOT. PLATE WASHERS OR BARS TO BE MINIMUM OF 5/16-INCH-THICK FOR LONG-SLOTTED HOLES.
13. FURNISH STEEL SHOP DRAWINGS FOR ARCHITECTS AND STRUCTURAL ENGINEERS REVIEW PRIOR TO FABRICATION, INCLUDING WELDING PROCEDURES, TESTING PROGRAMS FOR WELDING AND HIGH STRENGTH BOLTING, COATING MATERIAL AND ERECTION SEQUENCE ON SHOP DRAWINGS.
14. PROVIDE TEMPORARY SHORING OR BRACING DURING CONSTRUCTION PHASE. PRIOR TO COMPLETING CONNECTIONS AND POURING OF FLOOR SLAB. TEMPORARY CONSTRUCTION BRACING OF THE STRUCTURAL STEEL FRAME IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL AFTER THE PERMANENT BRACING SYSTEM HAS BEEN COMPLETED.
15. WELDS SHALL BE CONSIDERED TO BE CONTINUOUS UNLESS NOTED OTHERWISE.

PRE-ENGINEERED WOOD TRUSS NOTES:

- 1. SUPPLY AND ERECT WOOD TRUSSES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. WORK TO INCLUDE ANCHORAGE, BLOCKING, CURBING, MISCELLANEOUS FRAMING AND BRACING.
2. SEE DRAWINGS FOR TRUSS PROFILES AND DIMENSIONS.
3. ROOF TRUSSES SHALL BE DESIGNED FOR:
TOP CHORD DEAD LOAD - 15 PSF (MINIMUM)
TOP CHORD SNOW LOAD - 56 PSF* (BALANCED)
BOTTOM CHORD DEAD LOAD - 10 PSF (MINIMUM)
*INCLUDE UNBALANCED AND DRIFT SNOW LOAD PER ASCE 16.
4. GABLE END TRUSSES SHALL HAVE VERTICALS SPACED AT 16" O.C. THE VERTICALS MUST BE DESIGNED TO WITHSTAND A 25 PSF LATERAL LOAD.
5. ALLOWABLE LIVE LOAD DEFLECTION FOR PREFABRICATED TRUSSES=L/250.
6. TRUSS MANUFACTURERS SHALL SUBMIT DRAWINGS INDICATING THE FOLLOWING:
A. SPAN, SLOPE, AND SPACING OF TRUSSES.
B. REQUIRED BEARING WIDTH
C. DESIGN LOADS, AS APPLICABLE:
i. TOP CHORD LIVE LOAD
ii. TOP CHORD DEAD LOAD
iii. BOTTOM CHORD LIVE LOAD
iv. BOTTOM CHORD DEAD LOAD
v. CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION
vi. WIND AND SEISMIC CRITERIA
D. REACTIVE FORCES
E. LUMBER SIZE, SPECIES, AND GRADE FOR EACH MEMBER
F. LOCATION OF ANY REQUIRED CONTINUOUS LATERAL BRACING (CLB)
G. CALCULATED DEFLECTION RATIO AND/OR MAXIMUM DEFLECTION FOR LIVE AND TOTAL LOAD
H. CONNECTION REQUIREMENTS FOR:
vi. TRUSS TO TRUSS ORDERS
vii. TRUSS PLY TO PLY
iii. FIELD SPLICES
7. TRUSSES SHALL BE FABRICATED IN A PROPERLY EQUIPPED MANUFACTURING FACILITY OF A PERMANENT NATURE. TRUSSES SHALL BE MANUFACTURED BY EXPERIENCED WORKMEN, USING PRECISION CUTTING, JIGGING AND PRESSING EQUIPMENT MEETING REQUIREMENTS OF ANS/PTI 1-1995, SECTION 4. TRUSS MEMBERS SHALL BE ACCURATELY CUT TO LENGTH, ANGLE, AND TRUE TO LINE TO ASSURE PROPER FITTING JOINTS WITHIN TOLERANCES SET FORTH IN ANS/PTI 1-1995, SECTION 4, AND PROPER FIT WITH OTHER WORK.
8. FOLLOW TRUSS MANUFACTURERS RECOMMENDATIONS & LATEST EDITION OF THE BCSP FOR HANDLING, INSTALLATION AND BRACING OF TRUSSES. ERECTION OF TRUSSES IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CONSULT TRUSS MANUFACTURER OR INDEPENDENT ENGINEER IF FURTHER DESIGN ASSISTANCE IS NEEDED.
9. FASTEN DIAGONALS AT CONTINUOUS LATERAL BRACING (CLB) MEMBERS TO TRUSSES WITH (2) 16D NAILS (MIN).
10. WHERE DIAGONAL BRACES CROSS, INTERRUPT (1) BRACE AND ADD A 4 FT LONG 2x4 SPLICE OVER THE INTERRUPTED BRACE. ATTACH SPLICE TO EACH SIDE WITH (8) 16 D NAILS (MIN).
11. MANUFACTURER SHALL FURNISH DESIGN DRAWINGS BEARING SEAL AND REGISTRATION NUMBER OF A CIVIL OR STRUCTURAL ENGINEER LICENSED IN STATE WHERE TRUSSES ARE TO BE INSTALLED. DRAWINGS SHALL BE APPROVED BY ENGINEER OF RECORD PRIOR TO FABRICATION.

ENGINEERED WOOD TRUSS NOTES:

- 1. SUPPLY AND ERECT WOOD TRUSSES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. WORK TO INCLUDE ANCHORAGE, BLOCKING, CURBING, MISCELLANEOUS FRAMING AND BRACING.
2. SEE DRAWINGS FOR TRUSS PROFILES AND DIMENSIONS.
3. ROOF TRUSSES ARE DESIGNED FOR:
TOP CHORD DEAD LOAD - 15 PSF (MINIMUM)
TOP CHORD SNOW LOAD - 56 PSF* (BALANCED)
BOTTOM CHORD DEAD LOAD - 10 PSF (MINIMUM)
4. ALL GABLE END TRUSSES SHALL HAVE VERTICALS 2"x6" STUDS SPACED AT 16" O.C. THE VERTICALS ARE DESIGNED TO WITHSTAND A 25 PSF LATERAL LOAD.
5. ALLOWABLE LIVE LOAD DEFLECTION FOR TRUSSES=L/240.
6. TRUSSES SHALL BE FABRICATED IN A PROPERLY EQUIPPED MANUFACTURING FACILITY OF A PERMANENT NATURE. TRUSSES SHALL BE MANUFACTURED BY EXPERIENCED WORKMEN, USING PRECISION CUTTING, JIGGING AND PRESSING EQUIPMENT MEETING REQUIREMENTS OF ANS/PTI 1-1995, SECTION 4. TRUSS MEMBERS SHALL BE ACCURATELY CUT TO LENGTH, ANGLE, AND TRUE TO LINE TO ASSURE PROPER FITTING JOINTS WITHIN TOLERANCES SET FORTH IN ANS/PTI 1-1995, SECTION 4, AND PROPER FIT WITH OTHER WORK.
7. FOLLOW TRUSS MANUFACTURERS RECOMMENDATIONS & LATEST EDITION OF THE BCSP FOR HANDLING, INSTALLATION AND BRACING OF TRUSSES. ERECTION OF TRUSSES IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
8. FASTEN DIAGONALS AT CONTINUOUS LATERAL BRACING (CLB) MEMBERS TO TRUSSES WITH (2) 16D NAILS (MIN).
9. WHERE DIAGONAL BRACES CROSS, INTERRUPT (1) BRACE AND ADD A 4 FT LONG 2x4 SPLICE OVER THE INTERRUPTED BRACE. ATTACH SPLICE TO EACH SIDE WITH (8) 16 D NAILS (MIN).
10. ALL GUSSET PLATES FOR TIMBER TRUSSES TO BE 1/4" THICK GRADE A36 STEEL, PAINTED BLACK; UNLESS NOTED OTHERWISE.
11. ALL BOLTS FOR TRUSSES SHALL BE 3/4"x8" LONG A325 GRADE BOLTS WITH FASTENERS. ALL HARDWARE TO BE PAINTED BLACK; UNLESS NOTED OTHERWISE.
12. ALL STEEL GUSSET PLATES AND TIMBER FOR TIMBER TRUSSES SHALL TO BE PROVIDED BY UMAINE.

STRUCTURAL-ROUGH FRAMING NOTES:

- 1. ALL NEW WOOD SHALL BE SURFACED DRY WITH A MAXIMUM MOISTURE CONTENT OF 19% BEFORE WALLS ARE ENCLOSED.
2. WOOD STUDS IN LOAD BEARING WALLS SHALL BE 2X6, KILN-DRIED, SPF, OR HEM-FIR STRUCTURAL GRADE UNLESS OTHERWISE NOTED.
3. ALL WALL STUDS SHALL BE ALIGNED WITH ROOF RAFTERS OR TRUSSES.
4. PROVIDE AT LEAST DOUBLE STUDS EACH SIDE OF ALL OPENINGS IN BEARING WALLS. PROVIDE ADDITIONAL JACK STUDS TO SUPPORT HEADERS.
5. UNLESS OTHERWISE NOTED, HEADERS FOR 2X6 WOOD STUD WALLS SHALL BE TRIPLE SPF LUMBER WITH 1/2" PLYWOOD SPACERS.
0-4" (3)-2X6
4"-6" (3)-2X8
6"-8" (3)-2X10
6. WHERE "4.1L" IS NOTED ON DRAWINGS, PROVIDE LAMINATED VENEER LUMBER, WHICH HAS THE FOLLOWING MINIMUM ALLOWABLE STRESSES:
Fb=2500 PSI Fc=2510 PSI (PARALLEL TO GRAIN)
Fv=285 PSI Fc=750 PSI (PERPENDICULAR TO GRAIN)
Fl=1555 PSI E=2,000,000 PSI
7. WHERE "4.1L" IS NOTED ON DRAWINGS, PROVIDE PARALLAM STRAND LUMBER, WHICH HAS THE FOLLOWING MINIMUM ALLOWABLE STRESSES:
Fb=2900 PSI Fc=2900 PSI (PARALLEL TO GRAIN)
Fv=290 PSI Fc=750 PSI (PERPENDICULAR TO GRAIN)
Fl=2025 PSI E=2,000,000 PSI
8. FORM ALL CORNERS WITH A MINIMUM OF THREE STUDS. THESE STUDS SHALL BE SPIKED TOGETHER ALONG THEIR LENGTH.
9. PROVIDE DOUBLE PRESSURE-TREATED BOTTOM PLATE AT SILL. PROVIDE A CONTINUOUS DOUBLE TOP PLATE AT ALL WALLS. STAGGER BUTT JOINTS 4' AND SECURE PLATES WITH 2 LINES OF 16D NAILS AT 8" O.C.
10. ANCHOR RODS AT SILL PLATES SHALL ENGAGE FULL THICKNESS OF THE DOUBLE 2X BOTTOM PLATE, AND SHALL NOT BE COUNTERSINK.
11. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESSURE-TREATED WITH ACQ PRESERVATIVE WITH A MINIMUM RETENTION OF 0.25 PCF. ALL PRESSURE-TREATED LUMBER SHALL BE SOUTHERN YELLOW PINE NO.1 OR BETTER. ALL ENGINEERED LUMBER EXTERIOR EXPOSED SHALL BE WOLAMIZED.
12. ALL FASTENERS AND HARDWARE FOR PRESSURE-TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL. ALL CONNECTION HARDWARE SHALL BE ZMAX 0185 FINISHED OR STAINLESS STEEL.
13. FASTENER SPACING, EDGE AND DISTANCE SHALL BE SUFFICIENT TO PREVENT WOOD SPLITTING. ANY MEMBERS SPUN SHALL BE REPLACED.
14. ALL WOOD SHEATHING, FLOORS, ROOFS AND WALLS SHALL BE APA RATED PLYWOOD (TESTED ADVANTECH AT SERIES AS MANUFACTURED BY HUBER IS ACCEPTABLE, OSB MANUFACTURED BY OTHERS IS NOT ACCEPTABLE). SHEATHING AT FLOORS AND ROOFS SHALL BE T & G AND INSTALLED WITH THE FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AT WALLS.
15. ROOF SHEATHING SHALL BE 3/4" WITH MINIMUM 48/24 SPAN RATING (APA RATED "SHEATHING" OR TECO TESTED STRUCTURAL 1 SHEATHING SPAN). SECURE SHEATHING WITH SCREWS OR 10D RING SHANK NAILS AT 6" O.C. AT ALL EDGES AND 12" O.C. WITHIN THE FIELD.
16. BEARING WALL SHEATHING SHALL BE 5/8" THICK AND SHEAR WALL SHEATHING SHALL BE 5/8" THICK MINIMUM WITH A 32/16 SPAN RATING. BLOCK AND FASTEN ALL SHEATHING EDGES, WITH 10D NAILS AT 4" O.C. EDGE AND 8" O.C. FIELD, UNLESS NOTED OTHERWISE.
17. PROVIDE FULL DEPTH BLOCKING AT ENDS AND INTERIOR SUPPORTS OF ALL JOISTS AND RAFTERS WHERE JOISTS AND RAFTERS FRAME OVER SUPPORTS. PROVIDE 1x3 DIAGONAL BRIDGING OR FULL DEPTH SOLID BLOCKING FOR EACH 8'-0" OF SPAN FOR ALL JOISTS AND RAFTERS.
18. PROVIDE HORIZONTAL BLOCKING FOR ALL LOAD BEARING WALLS AT 4'-0" O.C. VERTICAL, MAXIMUM AND AS NECESSARY FOR BACKING FOR FIXTURES, ETC. AND FOR SECURITY TOP PLATES OF INTERIOR WALLS.
19. SUBMIT SHOP DRAWINGS FOR ALL PREFABRICATED WOOD JOISTS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
20. DO NOT OVERDRIVE NAIL HEADS IN THE SHEATHING. SET NAILS FLUSH WITH SHEATHING SURFACE.
21. PROVIDE OCA TREATED EXTERIOR GRADE PLYWOOD WHERE EXPOSED TO WEATHER.
22. REFER TO THE BUILDING CODE FOR REQUIRED NAILING AND/OR BOLTING SCHEDULE FOR ALL CONNECTIONS NOT SPECIFIED ON THE DRAWINGS.
23. CONTRACTOR SHALL TAKE CARE OF STORING WOOD PRODUCTS ON SITE. PREVENT WOOD BUILDING MATERIALS FROM MOISTURE DAMAGE WITH PROPER PROTECTIONS, SUCH AS WRAPPING AND STACKING WITH SPACERS FOR AIR CIRCULATION. DO NOT STORE MATERIALS DIRECTLY ON THE GROUND.
24. ANY WOOD DAMAGED WITH NOTICES, SPLITS, OR OTHER DEFECTS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
25. ALL FRAMING SHALL BE INSPECTED AND APPROVED BY ENGINEER PRIOR TO FINISHES.
26. LUMBER PROVIDED WILL BE RED PINE FULL DIMENSION ROUGH SAWN LUMBER, GRADED AND DRIED WITH MAXIMUM MOISTURE CONTENT OF 19%. 6x FRAMING WILL BE NET CONDITION. ALL LUMBER PROVIDED BY OWNER HAS BEEN GRADED AND APPROVED FOR THE USE OF THIS STRUCTURE. CONTRACTOR TO PROVIDE ALL ADDITIONAL GRADING AND MATERIALS REQUIRED THAT IS NOT PROVIDED. MISS CUTS, BROKEN TIMBERS, AND ADDITIONAL MATERIALS REQUIRED IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE.
27. MATERIAL LIST TO BE PROVIDED BY UMAINE.

OWNER PROVIDED MATERIALS:

- 1. OWNER PROVIDED MATERIALS ARE TO BE DELIVERED TO THE SITE AT NO EXPENSE TO THE CONTRACTOR.
2. TIMBER HP TIMBERBATT INSULATION
A. QUANTITY: (480 PIECES) APPROXIMATE COVERAGE OF 2,352 SQUARE FEET.
B. SIZE: 5.5" THICK BY 15" WIDE BY 47" LONG BATT PANELS.
3. WHITE PINE BOARDS:
A. QUANTITY: FOR BID ASSUME MATERIAL SUFFICIENT FOR ENTIRE PROJECT.
B. SIZE: 1"x6" NOMINAL IN 8' AND 10' LENGTHS CLEAR GRADE.
C. WHITE PINE BOARDS TO BE PRE-FINISHED.
4. ADVANTECH SHEATHING
A. QUANTITY: (242 SHEETS)
B. SIZE: 4'x8'x3/4" WITH TONGUE AND GROOVE.
5. PRE-FINISHED LP SMARTSIDE, SIDING AND TRIM.
A. FOR BID ASSUME MATERIAL SUFFICIENT FOR ENTIRE PROJECT.
B. SIDING TOUCH-UP PAINTING, CAULKING AND SEALING TO BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. ROUGH SAWN FULL DIMENSION NELMA GRADED TIMBERS AND LUMBER AS SHOWN IN TABLE SO.1. ALL OTHER LUMBER NOT PROVIDED SHALL BE SOURCED AND SUPPLIED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. ALL 1/2" STEEL GUSSET PLATES FOR TIMBER TRUSSES SHALL BE PROVIDED BY OWNER.
7. ANY MATERIALS NOT LISTED ABOVE THAT ARE REQUIRED FOR COMPLETE AND CODE-COMPLIANT INSTALLATION (E.G. FASTENERS, HANGERS, FLASHINGS, VAPOR BARRIERS, OR ADDITIONAL MATERIALS WILL BE SUPPLIED BY THE CONTRACTOR AND INCLUDED AT NO ADDITIONAL COST TO THE OWNER, UNLESS OTHERWISE NOTED.

SUBMITTAL REQUIREMENTS:

- THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR INSTALLATION.
1. SOIL
A. SELECT FILL TEST DATA
2. CONCRETE:
A. REBAR SIZE, LENGTHS, LOCATIONS FOR THE CAST-IN-PLACE SLABS, GRADE BEAMS, AND PIERS
B. CONCRETE MIX DESIGNS
a) MIX DESIGNS SEPARATED FOR EACH NOTED MIX
b) PRODUCT LITERATURE FOR ADMIXTURES
C. VAPOR BARRIER PRODUCT LITERATURE
3. STRUCTURAL STEEL
A. FABRICATION DRAWINGS OF ALL STRUCTURAL STEEL MEMBERS, GUSSET PLATES, AND BEAMS.
B. STRUCTURAL STEEL MATERIAL ASTM DESIGNATION AND YIELD STRENGTH
4. METAL CONNECTORS, SIMPSON CONNECTORS, OR APPROVED EQUAL CONNECTION HARDWARE (ALL LOCKING)
5. WOOD WALL PANELS
A. ALL MATERIALS AS NOTED PER TECHNICAL SPECIFICATIONS.

DESIGN LOADS:

SEE PLANS FOR ADDITIONAL LOADS NOT INDICATED BELOW.

- FLOOR LIVE LOAD CONSTRUCTION 20 PSF
SLAB ON GRADE 100 PSF
CLASSROOM 50 PSF
MECHANICAL 125 PSF
ROOF LIVE LOADING LIVE LOAD (MINIMUM) 20 PSF
GROUND SNOW LOAD 80 PSF
SNOW EXPOSURE FACTOR (C.e) 1.0
SNOW EXPOSURE FACTOR 0.9
SNOW IMPORTANCE FACTOR 1.0
THERMAL FACTOR (MONOSLOPE) 1.1
THERMAL FACTOR (FLAT ROOF) 1.0
THERMAL FACTOR (LOW ROOF) 1.2
CONCENTRATED LOAD 300 LBS
DRIFT LOAD AS NOTED
WOOD ROOF TRUSS DEAD LOADS-MINIMUM
TOP CHORD 10 PSF
BOTTOM CHORD 10 PSF
BOTTOM CHORD LIVE LOAD NON-MEZZANINE: 20 PSF
SOIL CHARACTERISTICS
GEOTECHNICAL ENGINEERING CO. S.W. COLE
GEOTECHNICAL REPORT # 24-2352 S
ALLOWABLE BEARING PRESSURE 2,500 PSF
UNIT WEIGHT OF SOIL 130 PCF
BASE FRICTION ANGLE (STONE) 40
AT-REST PRESSURE .50
INTERNAL FRICTION (BACKFILL) 30
SLIDING COEFFICIENT .40
MOD. OF SUBGRADE, k 150 PSI
FROST COVER (UNHEATED) 5 FEET
WIND DESIGN
ULTIMATE DESIGN WIND SPEED V_u115 115 MPH
NOMINAL DESIGN WIND SPEED V_o100 90 MPH
BUILDING CLASSIFICATION C
WIND EXPOSURE CATEGORY C
INTERNAL PRESSURE COEF. +/-
WINDS WOOD SHEAR WALLS
CATEGORY II, EXPOSURE C, PARTIALLY EXPOSED
HEATED BUILDING/COLD VENTED ROOF
SEISMIC DESIGN
IMPORTANCE FACTOR, I_e 1.0
Ss 29
Si 0.716
Sds 252
Sd1 0.76
SEISMIC DESIGN CATEGORY B

TABLE SO.1
THE FOLLOWING MATERIALS WILL BE SUPPLIED BY THE OWNER TO BE USED BY THE CONTRACTOR FOR THIS PROJECT.

Table with 3 columns: SIZE, QUANTITY, LUMBER GRADE. Lists materials like 2"x4"x12', 2"x6"x10', 2"x6"x12', 2"x8"x12', 6"x6"x6', 6"x6"x8', 6"x6"x14', 6"x8"x12', 6"x8"x30', 6"x8"x14', 6"x8"x12', 8"x8"x12'.



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CONSULTING ENGINEERS
687 STILLWATER AVENUE-OLD TOWN-MAINE 04468

Revisions table with columns: NO., DATE, BY, DESCRIPTION.



UNIVERSITY OF MAINE
DEMERRIT FOREST SAWMILL
OLD TOWN, MAINE
STRUCTURAL LEGEND

Drawn: AT
Checked: RB
Scale: AS NOTED
Date: 05-14-2024
Project No: 2023085
Sheet Number:

FOR BID
01-23-2026
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NO.	DATE	DESCRIPTION



UNIVERSITY OF MAINE
DEMERITT FOREST SAWMILL
OLD TOWN, MAINE
FOUNDATION PLAN

Drawn: AT
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S1

- ELEVATIONS**
- SLAB OF FINISHED FLOOR IS A REFERENCE ELEVATION SET AT 100.00'.
 - TOP OF CONCRETE PIERS TO BE 102.00', AND SHALL EXTEND 5' MINIMUM BELOW FINISHED GRADE, TYPICAL.
 - ALL ELEVATION ARE BASED ON FINISHED FLOOR OF 100.00' (COORDINATE SITE PLAN/SURVEY FOR LOCATION).
 - OPEN PAVILION CONCRETE SLAB TO SLOPE 1% AWAY FROM CENTER "CROWN". COORDINATE SMOOTH TRANSITION AROUND ALL DOORS.

SPREAD FOOTING SCHEDULE

TAG	SIZE (WIDTH X LENGTH X HEIGHT)	REINFORCING	NOTES
(SF)	4' X 4' X 12"	(6) #4 BARS EQUALLY SPACED EACH WAY	--
(SF)	5' X 5' X 12"	(6) #4 BARS EQUALLY SPACED EACH WAY	--

- NOTES:**
- BOTTOM OF FOOTER TO BE MINIMUM OF 5' BELOW FINISHED GRADE.
 - TOP OF FOOTER TO BE DIRECTLY UNDER SLAB ON GRADE.

CONCRETE PIER SCHEDULE

TAG	SIZE (WIDTH X HEIGHT)	REINFORCING	TIES	NOTES
(P1)	12" X 12"	(8) #4 BARS	#3 BARS @ 12" O.C.	TIES, REFER TO DETAIL
(P2)	16" X 16"	(8) #5 BARS	#3 BARS @ 12" O.C.	TIES, REFER TO DETAIL
(P3)	16" X 16"	(8) #5 BARS	#3 BARS @ 12" O.C.	TIES, REFER TO DETAIL
(P4)	14" X 16"	(8) #5 BARS	#3 BARS @ 12" O.C.	ABUTS CLASSROOM WALL

- NOTES:**
- COORDINATE INSTALLATION OF COLUMN STAND OFF BRACKET (SEE DETAIL).
 - CONCRETE TO EXTEND 2' MINIMUM ABOVE FINISHED GRADE/SLAB.
 - TOP OF PIERS 102'-0" UNLESS OTHERWISE NOTED.

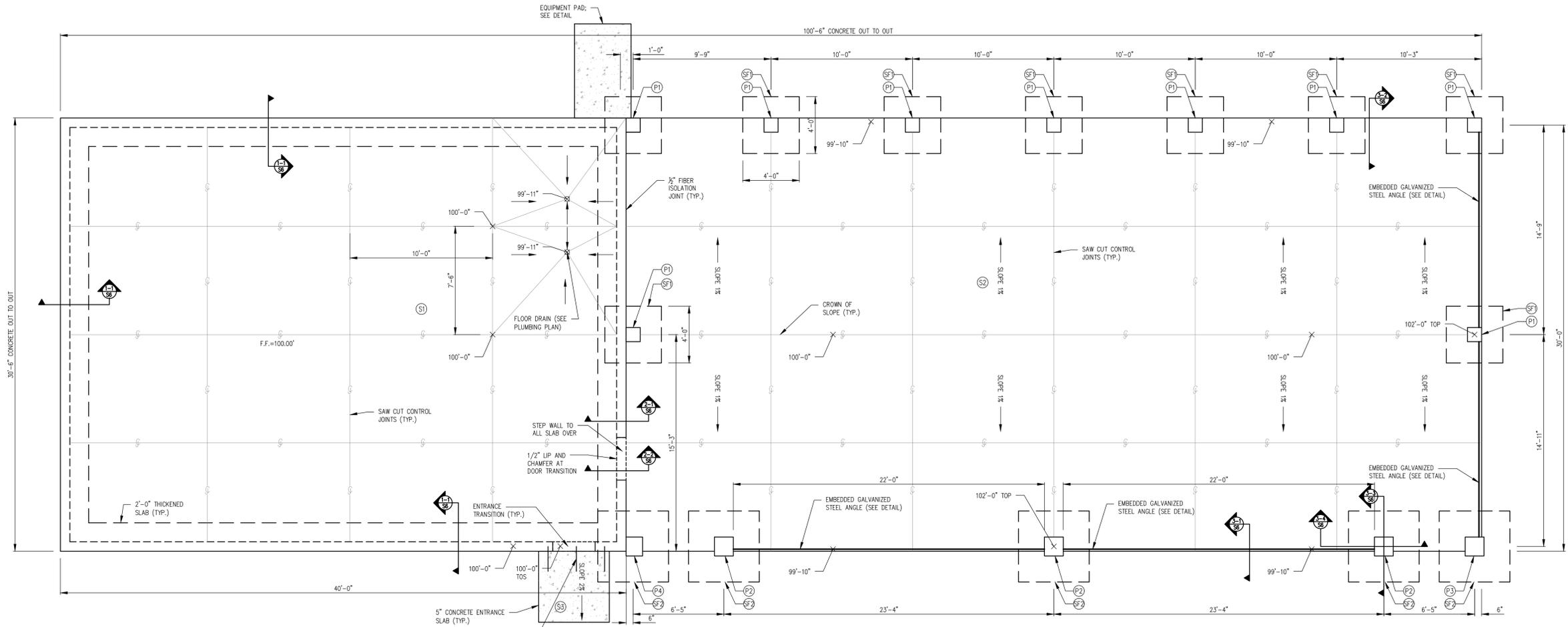
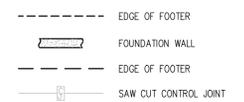
CONCRETE SLAB SCHEDULE

TAG	SIZE (THICKNESS)	REINFORCING	NOTES
(S1)	4"	#4 BARS @ 18" O.C. BOTH WAYS	TOS = 100.00
(S2)	6"	#4 BARS @ 12" O.C. BOTH WAYS	TOS = 100.00
(S3)	5"	4"x4" W2.1xW2.1 MESH	TOS = 100.00
(S4)	8"	#4 BARS AT 12" O.C. BOTH WAYS	TOS = 100.00

- NOTES:**
- PROVIDE AND INSTALL 2" RIGID INSULATION UNDER ALL EXTERIOR SLABS (REFER TO DETAILS).
 - EXTERIOR SLABS: SLOPE 2% MAX. AWAY FROM BUILDING WITH BROOM FINISH PARALLEL TO SLOPE.
 - CONTROL JOINTS SHALL POSITIVELY DRAIN ON EXTERIOR SLABS. SAW JOINTS SHALL NOT POND WATER.

- GENERAL NOTES:**
- ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. SHOULD THERE BE A DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN ANKWARD OR IMPROPER INSTALLATION, NOTIFY ENGINEER FOR CLARIFICATION PRIOR TO INSTALLATION OF WORK. ANY WORK INSTALLED IN CONFLICT WITH THE FLOOR PLANS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
 - DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
 - PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPPORT STRUCTURES, MECHANICAL, ELECTRICAL, AND FINISHES TO COMPLETE THE WORK AS INTENDED.
 - SUBMIT ALL MANUFACTURERS TECHNICAL PRODUCT SUSTAINING THAT ALL COMPONENTS AS NOTED ON SCHEDULES TO MEET AND CONFORM ALL REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
 - CONTRACTOR SHALL PREP, PATCH AND LEVEL ALL WALL SURFACES PRIOR INSTALLATION OF FIXTURES, DOORS, WINDOWS, ETC. WALLS TO BE SQUARE. CONTRACTOR TO SMOOTH BATHROOM WALLS, PROVIDING A FLAT/EVEN SURFACE, PRIOR TO INSTALLATION NEW WALL PANELS.
 - COORDINATE ALL BELOW GRADE UTILITIES WITH ALL TRADE PRIOR TO PLACEMENT OF CONCRETE.
 - COORDINATE SLAB ON GRADE FLOOR DRAINS TO POSITIVELY SLOPE 1/8" TO DRAINS UNLESS CLEARLY NOTED OTHERWISE.

FOUNDATION LEGEND



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



FOR BID
01-23-2026



CARPENTER ASSOCIATES
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NO.	DATE	DESCRIPTION



UNIVERSITY OF MAINE
DEMERITT FOREST SAWMILL
OLD TOWN, MAINE
STRUCTURAL FRAMING PLAN

Drawn: AT
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S2

GENERAL NOTES:

- ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. SHOULD THERE BE A DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN ANKWARD OR IMPROPER INSTALLATION, NOTIFY ENGINEER FOR CLARIFICATION PRIOR TO INSTALLATION OF WORK. ANY WORK INSTALLED IN CONFLICT WITH THE FLOOR PLANS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
- DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPPORT STRUCTURES, MECHANICAL, ELECTRICAL, AND FINISHES TO COMPLETE THE WORK AS INTENDED.
- SUBMIT ALL MANUFACTURES TECHNICAL PRODUCT SUSTAINING THAT ALL COMPONENTS AS NOTED ON SCHEDULES TO MEET AND CONFORM ALL REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL INCLUDE AS PART OF THEIR BID ALL PERMIT COSTS AND FEES, INCLUDING THOSE FOR UTILITIES.
- CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE PRIOR TO THE BID TO CLEARLY EXAMINE AND UNDERSTAND THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE ALL REQUIRED ALLOWANCES IN THEIR BID. NO ALLOWANCE SHALL BE MADE FOR ERROR RESULTING FROM CONTRACTOR'S FAILURE TO VISIT THE SITE, REVIEW THE COMPLETE DOCUMENTS, AND TO ASK THE ENGINEER FOR CLARIFICATION ON ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR UNFORESEEN CONDITIONS.
- INSTALL NEW SHEETROCK ON WALLS AND CEILINGS. ALL NEW GWB IN WET/DAMP LOCATIONS TO BE 5/8" MR (MOISTURE RESISTANT). ALL OTHER GWB SHALL BE 5/8" TYPE "X" UNLESS NOTED.
- INSTALL NEW DUCTWORK NEW RIGID, SMOOTH TRANSITIONS AND ELBOWS AS REQUIRED TO TERMINATE AT GRILLE/HOOD IN EXTERIOR WALL. INSTALL BACKDRAFT DAMPERS AND INSECT SCREENS AS REQUIRED. DO NOT TERMINATE ABOVE WINDOWS.
- CONTRACTOR SHALL PREP, PATCH AND LEVEL ALL WALL SURFACES PRIOR INSTALLATION OF FIXTURES, DOORS, WINDOWS, ETC. WALLS TO BE SQUARE. CONTRACTOR TO SMOOTH BATHROOM WALLS, PROVIDING A FLAT/EVEN SURFACE, PRIOR TO INSTALLATION NEW WALL PANELS.
- CONTRACTOR SHALL PREP ALL FLOOR SURFACES PRIOR TO INSTALLATION OF SUB FLOOR AND FLOORING. THE CONTRACTOR IS RESPONSIBLE FOR LEVELING THE FLOOR WITHIN TOLERANCES IN SPECIFICATIONS.
- COORDINATE ATTIC ACCESS WITH FRAMING.

CONNECTION	FASTENING	TYPE
STUD TO SOLE PLATE	(3)-16D COMMON NAILS	FACE NAIL
TOP PLATE TO STUD	(3)-16D COMMON NAILS	FACE NAIL
DOUBLE TOP PLATE TO TOP PLATE	(2)-3"x1.31" NAILS @ 12" O.C.	FACE NAIL
BLOCKING AT THRD POINTS	(2)-16D COMMON NAILS	FACE/TOE NAIL
EXTERIOR ROOF TRUSS TO DOUBLE TOP PLATE	SIMPSON STRONG-TIE H2.5A	PER MANUFACTURER
TIMBER TRUSS TO PLY BEAM	SIMPSON STRONG-TIE MTS12 (2) PER END	PER MANUFACTURER
2"x8" RAFTER TO TOP CORD OF TIMBER TRUSS	SIMPSON STRONG TIE A23 ANGLE CLIP	PER MANUFACTURER
2"x6" KNEE BRACES TO 6"x6" COLUMNS (MID POINTS)	(3) 3/8"x6" LONG LAG SCREWS PER SIDE	FACE NAIL
2"x6" KNEE BRACES TO 6"x6" COLUMNS (ENDS)	(6) 3/8"x6" LONG LAG SCREWS PER SIDE	FACE NAIL
BLOCKING BETWEEN TRUSSES	(5)-8D COMMON NAILS	TOE NAIL
MULTI-PLY HEADER	16D COMMON NAILS @ 12" O.C. 3 ROWS	FACE NAIL
HEADER TO STUD	(4)-8D COMMON NAILS	TOE NAIL
3/4" SHEATHING TO STUDS	16D @ 6" O.C. EDGE, 12" O.C. FIELD	FACE NAIL
5/8" GYP SHEATHING TO STUDS	#7 SCREWS 6" O.C. @ EDGE AND 12" O.C. IN FIELD	FACE NAIL
3/4" ROOF SHEATHING TO TRUSSES	8D @ 6" O.C. EDGE, 12" O.C. FIELD	FACE NAIL
6"x6" RED PINE COLUMN TO CONCRETE WALL	SIMPSON STRONG TIE CB66HDC	PER MANUFACTURER
6"x6" RED PINE COLUMN (3 PLY) BEAM	SIMPSON STRONG TIE CC66/ECOU66/ECOLL66/ECOLR66 COLUMN CAPS	PER MANUFACTURER
2x6 PT BOTTOM PLATE TO CONCRETE	5/8" ANCHOR BOLT, 8" MIN. EMBEDMENT SPACED 3'-0" O.C. AND 12" AWAY FROM ALL OPENINGS AND SILL PLATES	PER MANUFACTURER

NOTE:
1. CONTRACTOR TO VERIFY EXACT BEARING DISTANCES.
2. JOIST HANGERS, AND CONNECTION PLATE MUST MEET MANUFACTURES SPECIFICATIONS FOR NAILING, AND INSTALLATION.
3. PROVIDE ALL CONNECTION AS LISTED ABOVE, UNLESS NOTED OTHERWISE.

TAG	DEPTH/SIZE
(C1)	RED PINE 6"x6"
(C2)	6"x6"x1/4" HSS
(C3)	--
(C4)	--
(C5)	--
(C6)	12"x12" CONCRETE

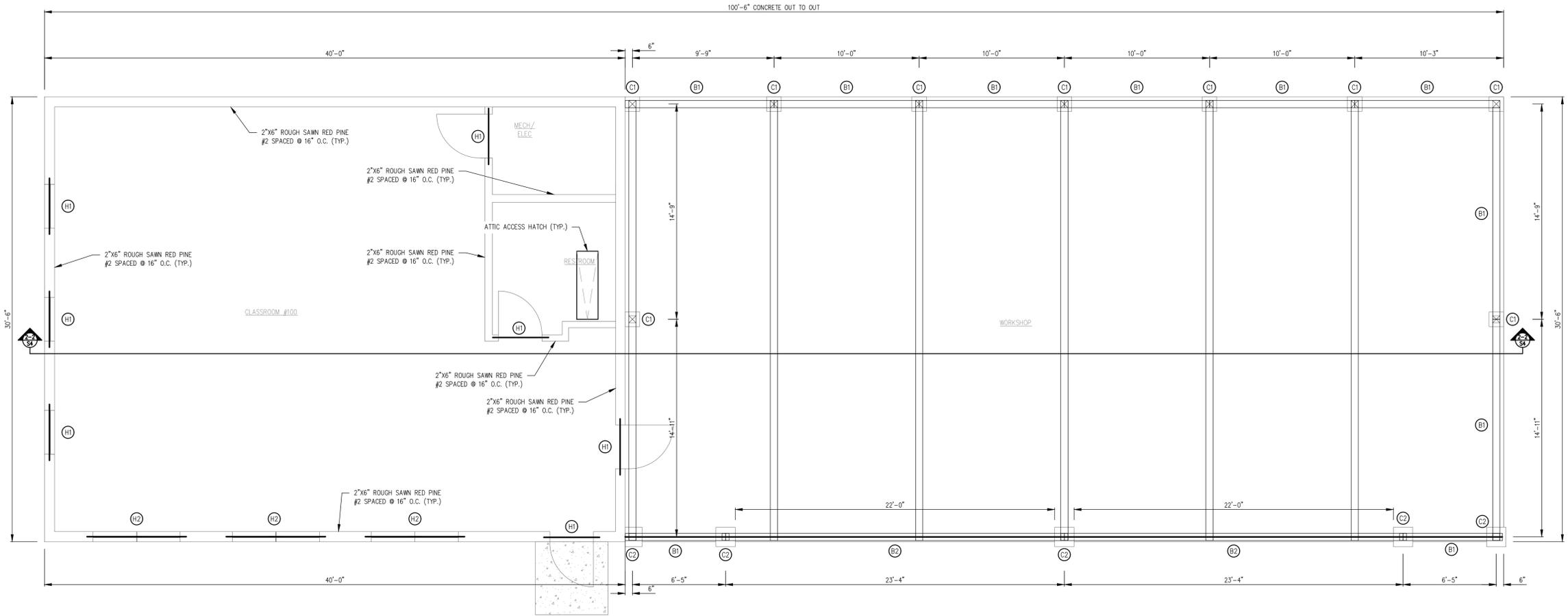
NOTES:
1. ALIGN ALL COLUMNS WITH BEAMS AND BEARING WALLS.
2. ALL COLUMNS SHALL BE PROVIDED CONTINUOUS TO FOUNDATION UNLESS OTHERWISE NOTED.
3. ALL COLUMNS TO BE IN LINE WITH BEARING WALLS AND INSTALL TO BE SEAMLESS SO INTERIOR FINISHES ARE CONTINUOUS.

TAG	LOCATION	SIZE	MAX. SPAN
(H1)	AS NOTED	(3) 2"x6" S.P.F. (s) #2 OR BETTER	0-3' SPAN
(H2)	AS NOTED	(3) 2"x10" S.P.F. (s) #2 OR BETTER	3'-6" SPAN
(H3)	AS NOTED	--	AS NOTED
(H4)	AS NOTED	--	AS NOTED

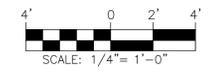
NOTES:
1. VERIFY EXACT FINAL LAYOUT.
2. COORDINATE ELEVATION OF HEADER WITH ARCHITECTURAL DRAWINGS.
3. REPORT DISCREPANCIES TO ENGINEER.

TAG	LOCATION	SIZE	MAX. SPAN
(B1)	AS NOTED	(3) 2"x12" S.P.F. (s) #2 OR BETTER	AS NOTED
(B2)	AS NOTED	W14x33 STEEL BEAM	AS NOTED

NOTES:
1. VERIFY EXACT FINAL LAYOUT.
2. COORDINATE ELEVATION OF HEADER WITH ARCHITECTURAL DRAWINGS.
3. REPORT DISCREPANCIES TO ENGINEER.



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



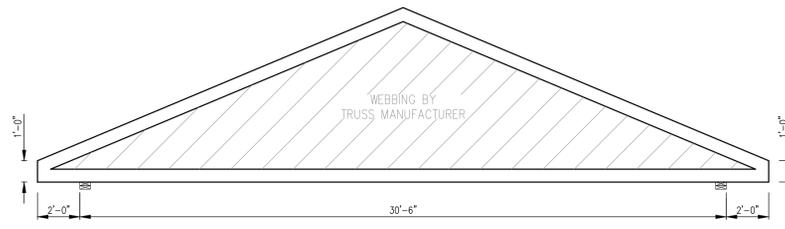
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01-23-2026



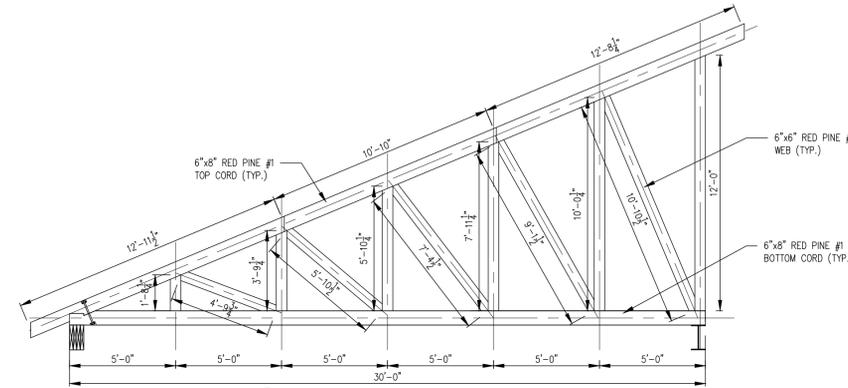
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GENERAL NOTES:

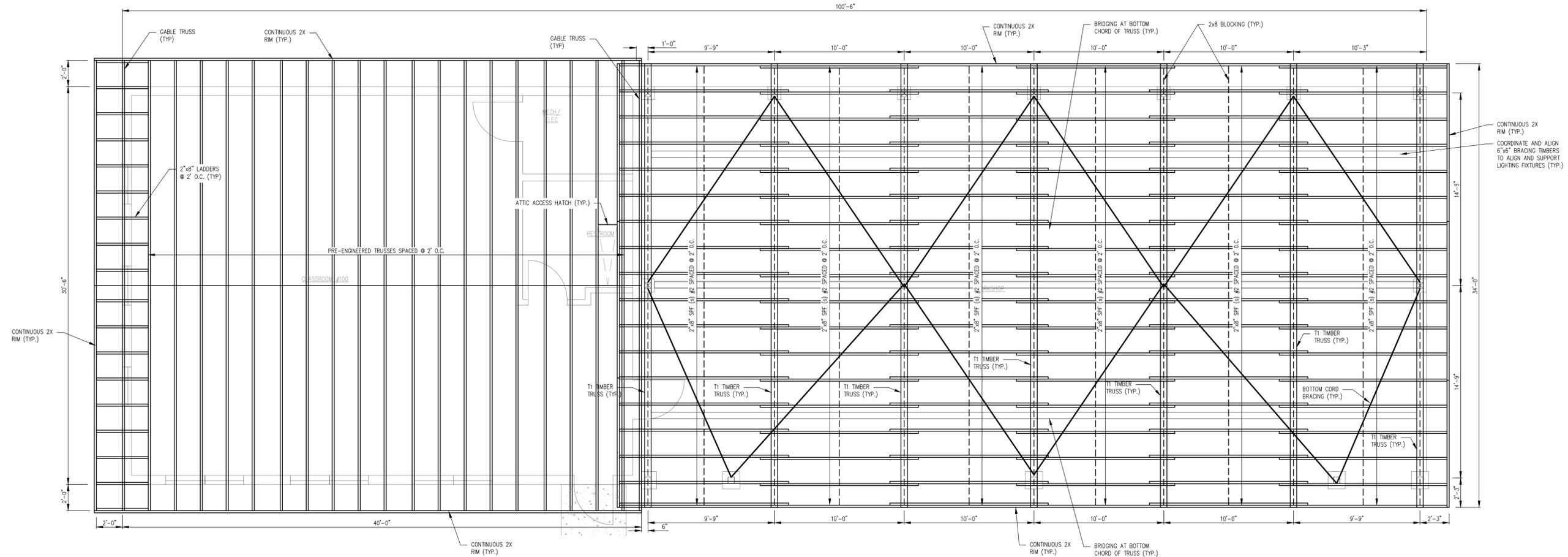
1. ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. SHOULD THERE BE A DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN UNUSUAL OR IMPROPER INSTALLATION, NOTIFY ENGINEER FOR CLARIFICATION PRIOR TO INSTALLATION OF WORK. ANY WORK INSTALLED IN CONFLICT WITH THE FLOOR PLANS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
4. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPPORT STRUCTURES, MECHANICAL, ELECTRICAL, AND FINISHES TO COMPLETE THE WORK AS INTENDED.
5. SUBMIT ALL MANUFACTURER'S TECHNICAL PRODUCT SUSTAINING THAT ALL COMPONENTS AS NOTED ON SCHEDULES TO MEET AND CONFORM ALL REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
6. CONTRACTOR SHALL INCLUDE AS PART OF THEIR BID ALL PERMIT COSTS AND FEES, INCLUDING THOSE FOR UTILITIES.
7. CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE PRIOR TO THE BID TO CLEARLY EXAMINE AND UNDERSTAND THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE ALL REQUIRED ALLOWANCES IN THEIR BID. NO ALLOWANCE SHALL BE MADE FOR ERROR RESULTING FROM CONTRACTOR'S FAILURE TO VISIT THE SITE, REVIEW THE COMPLETE DOCUMENTS, AND TO ASK THE ENGINEER FOR CLARIFICATION ON ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR UNFORESEEN CONDITIONS.
8. INSTALL NEW SHEETROCK ON WALLS AND CEILINGS. ALL NEW GWB IN WET/DAMP LOCATIONS TO BE 5/8" MR (MOISTURE RESISTANT). ALL OTHER GWB SHALL BE 5/8" TYPE "X" UNLESS NOTED.
9. COORDINATE ATTIC ACCESS WITH FRAMING.



PRE-ENGINEERED TRUSS DETAIL
SCALE: 1/4" = 1'-0"



TRUSS SECTION LAYOUT DETAIL
SCALE: 1/4" = 1'-0"



ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

NO.	DATE	DESCRIPTION



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DEMERRIT FOREST SAWMILL
OLD TOWN, MAINE
ROOF FRAMING PLAN

Drawn: AT
Checked: RB
Scale: AS NOTED
Date: 05-14-2024
Project No: 2023085
Sheet Number:



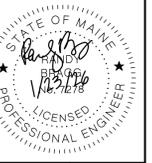
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01-23-2026

S3



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NO.	DATE	DESCRIPTION

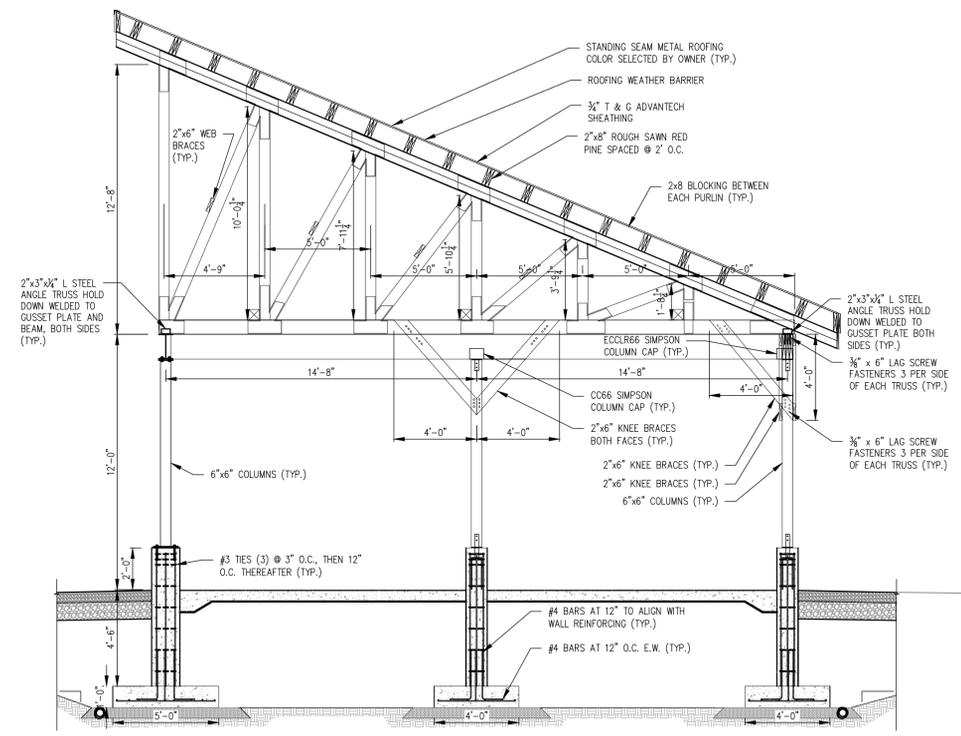


UNIVERSITY OF MAINE
DEMERITT FOREST SAWMILL
OLD TOWN, MAINE

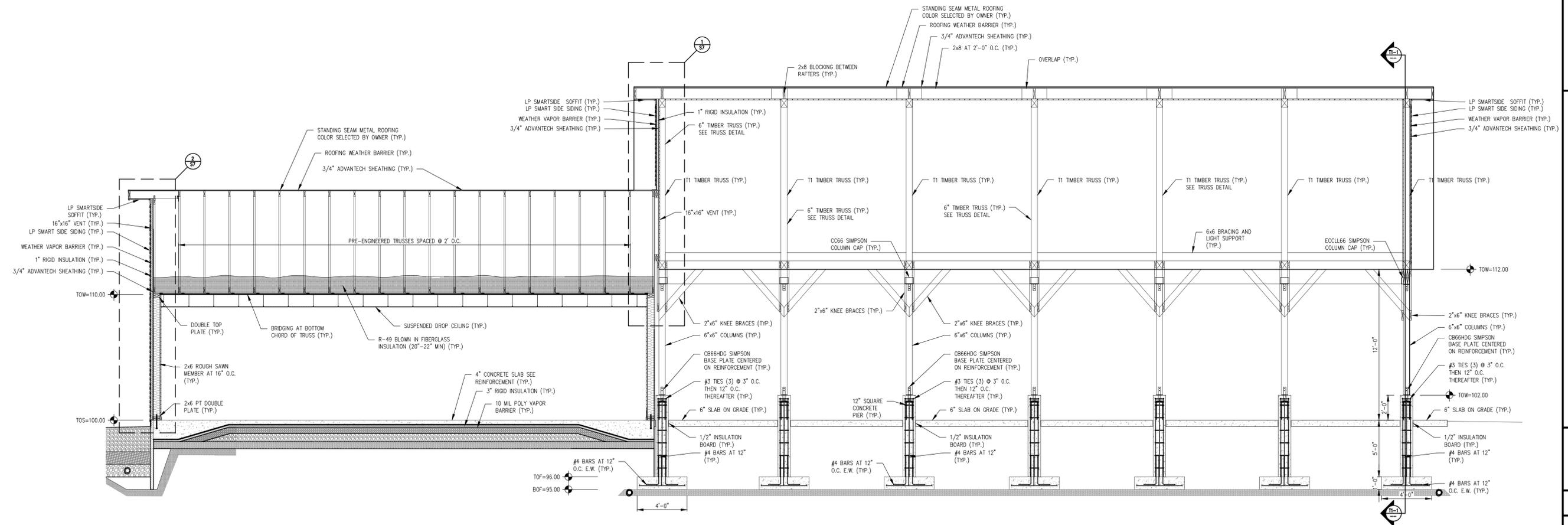
STRUCTURAL SECTIONS

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Scale: **AS NOTED**
Date: **05-14-2024**
Project No: **2023085**
Sheet Number:

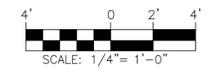
S4



BUILDING SECTION DETAIL
SCALE: 1/4"=1'-0"



BUILDING SECTION DETAIL
SCALE: 1/4"=1'-0"



FOR BID
01-23-2026

Jan 29, 2026 - 2:08pm
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NO.	DATE	BY	DESCRIPTION



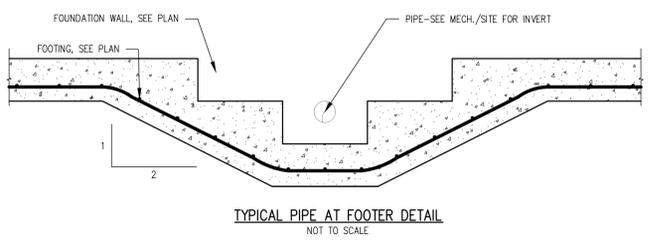
UNIVERSITY OF MAINE
DEMERITT FOREST SAWMILL
OLD TOWN, MAINE

FOUNDAITON DETAILS

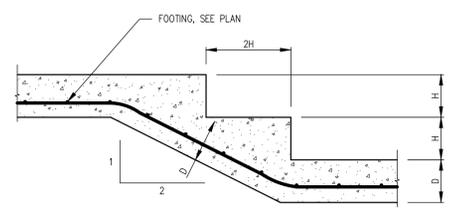
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S5

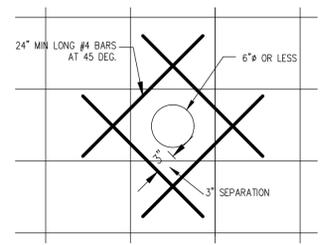
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01-23-2026



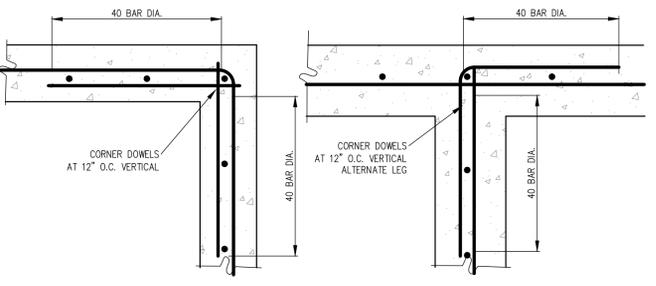
TYPICAL PIPE AT FOOTER DETAIL
NOT TO SCALE



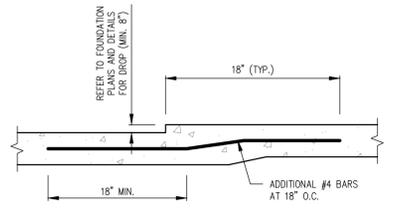
TYPICAL STEP FOOTER DETAIL
NOT TO SCALE



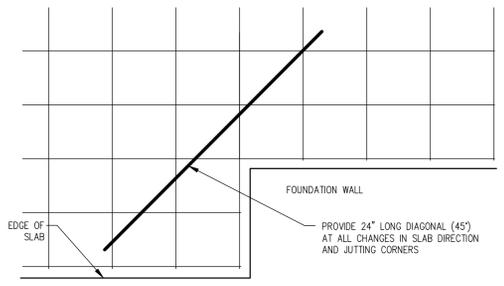
TYPICAL SLAB/WALL PENETRATION/CORE REINFORCING DETAIL
NOT TO SCALE



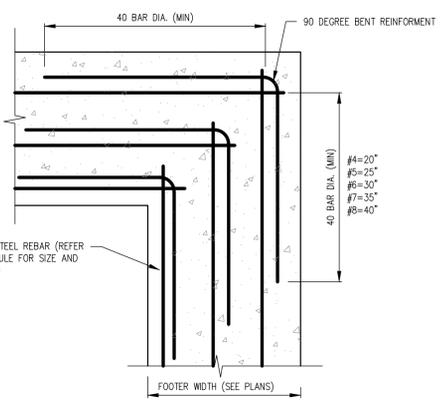
TYPICAL WALL CORNER REINFORCEMENT
NOT TO SCALE



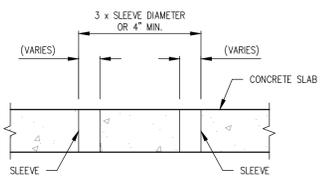
TYP. SLAB DEPRESSION DETAIL
(DEPRESSION NOT EXCEEDING 9")
NOT TO SCALE



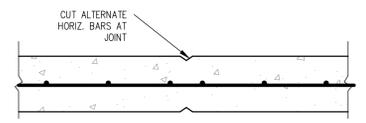
DIAGONAL SLAB REINFORCEMENT PLAN
NOT TO SCALE



TYPICAL FOOTER CORNER REINFORCEMENT
NOT TO SCALE

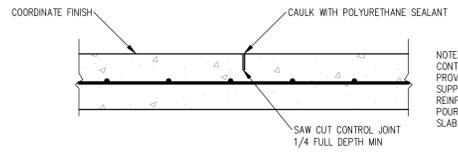


TYP. SLAB SLEEVE PENETRATION DETAIL
NOT TO SCALE



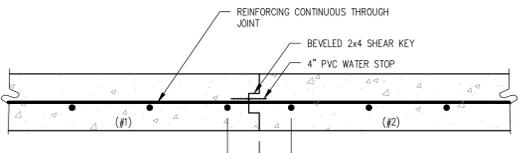
TYPICAL WALL CONTROL JOINT DETAIL
NOT TO SCALE

1. PROVIDE WEAK PLANE CONTRACTION JOINTS @ 24'-0" o.c. MAX AND KEVED CONSTRUCTION JOINTS 100'-0" o.c. MAX.
2. SEE PLAN AND DETAILS FOR WALL REINFORCING AND SPACING.



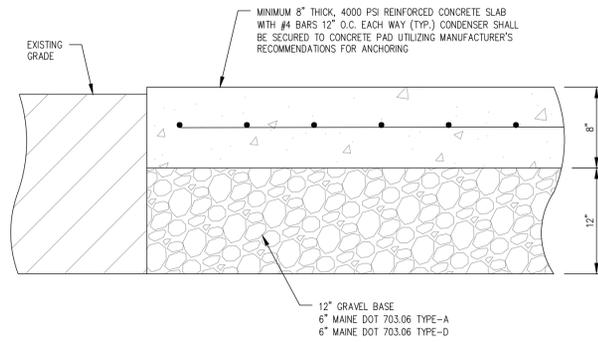
TYPICAL SLAB CONTROL JOINT DETAIL
NOT TO SCALE

NOTE: FOR ALL CONCRETE SLABS ON GRADE, CONTROL JOINTS SHALL BE A MINIMUM OF 12' O.C. BOTH DIRECTIONS UNLESS NOTED OTHERWISE.



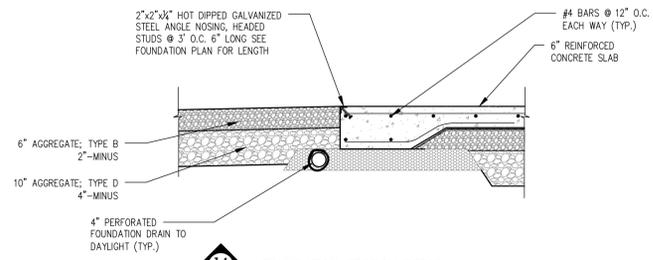
WALL CONSTRUCTION JOINT DETAIL
NOT TO SCALE

Jan 29, 2026 - 2:08pm
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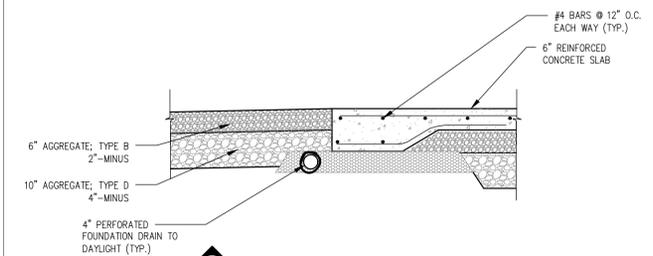


CONCRETE EQUIPMENT PAD DETAIL
NOT TO SCALE

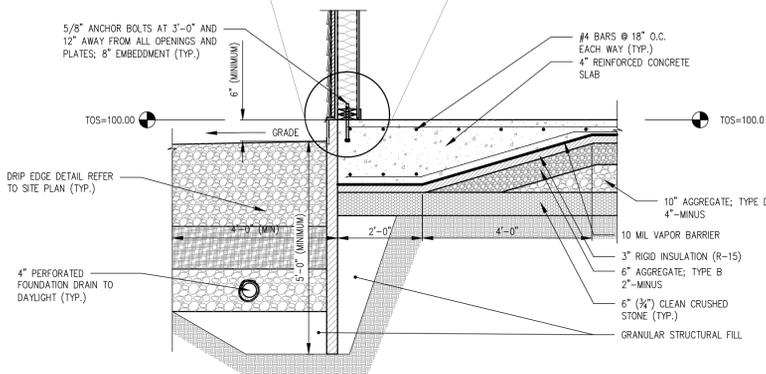
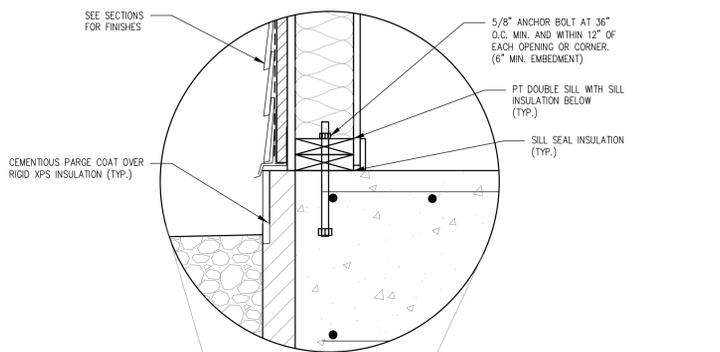
NOTE:
CONTRACTOR SHALL COORDINATE, PROVIDE, AND INSTALL BOND-OUTS FOR UNDERGROUND UTILITIES WHERE REQUIRED.



FOUNDATION SECTION DETAIL
SCALE: 1/2" = 1'-0"

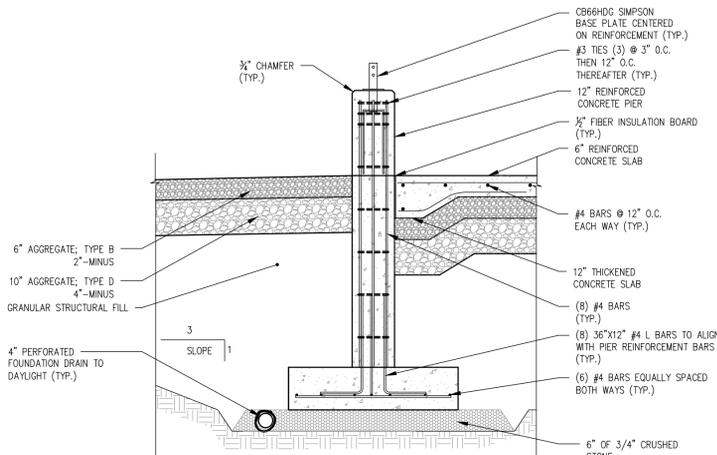


FOUNDATION SECTION DETAIL
SCALE: 1/2" = 1'-0"



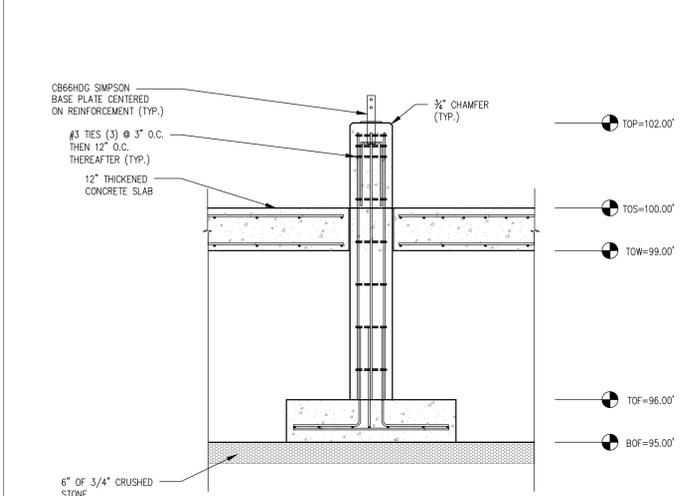
TYPICAL FOUNDATION SECTION DETAIL
SCALE: 1/2" = 1'-0"

NOTE: WOOD STRUCTURE NOT SHOWN.

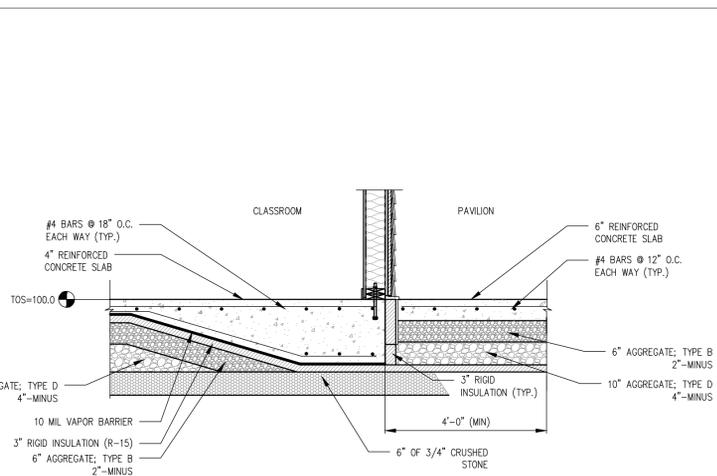


FOUNDATION SECTION DETAIL
SCALE: 1/2" = 1'-0"

NOTE: WOOD STRUCTURE NOT SHOWN.

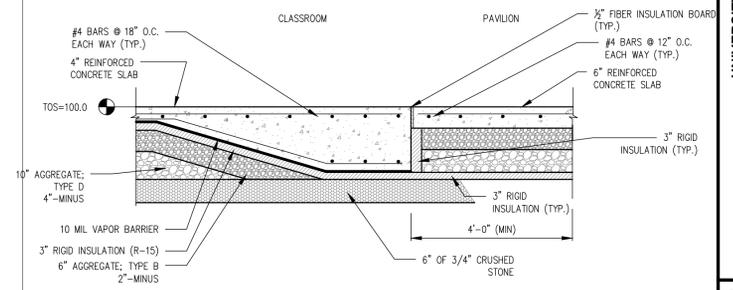


FOUNDATION SECTION DETAIL
SCALE: 1/2" = 1'-0"



FOUNDATION SECTION DETAIL
SCALE: 1/2" = 1'-0"

NOTE: WOOD STRUCTURE AND DOOR NOT SHOWN.



FOUNDATION SECTION DETAIL
SCALE: 1/2" = 1'-0"



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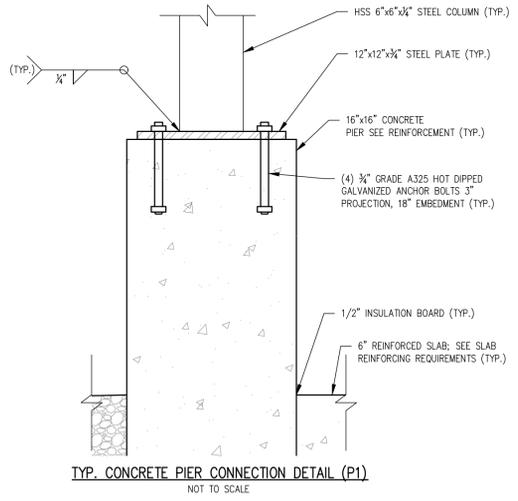
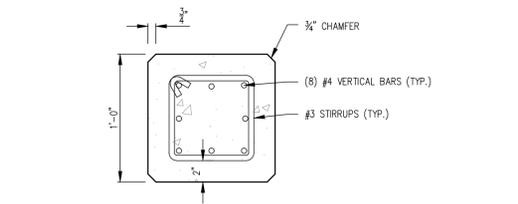
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DEMERITT FOREST SAWMILL
OLD TOWN, MAINE

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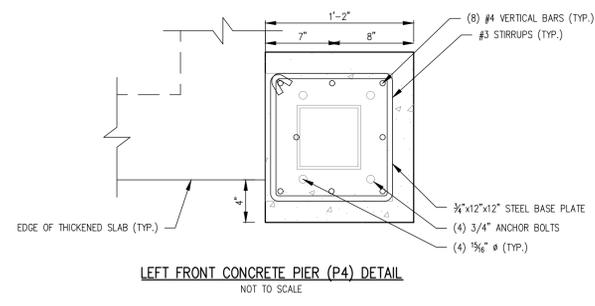
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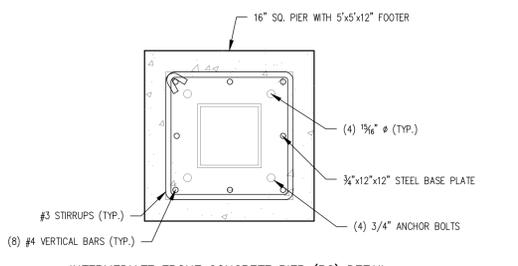
S6



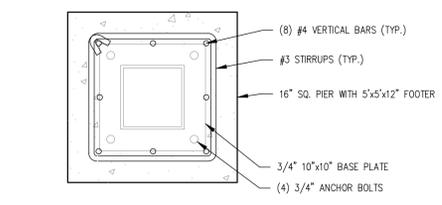
TYP. CONCRETE PIER CONNECTION DETAIL (P1)
NOT TO SCALE



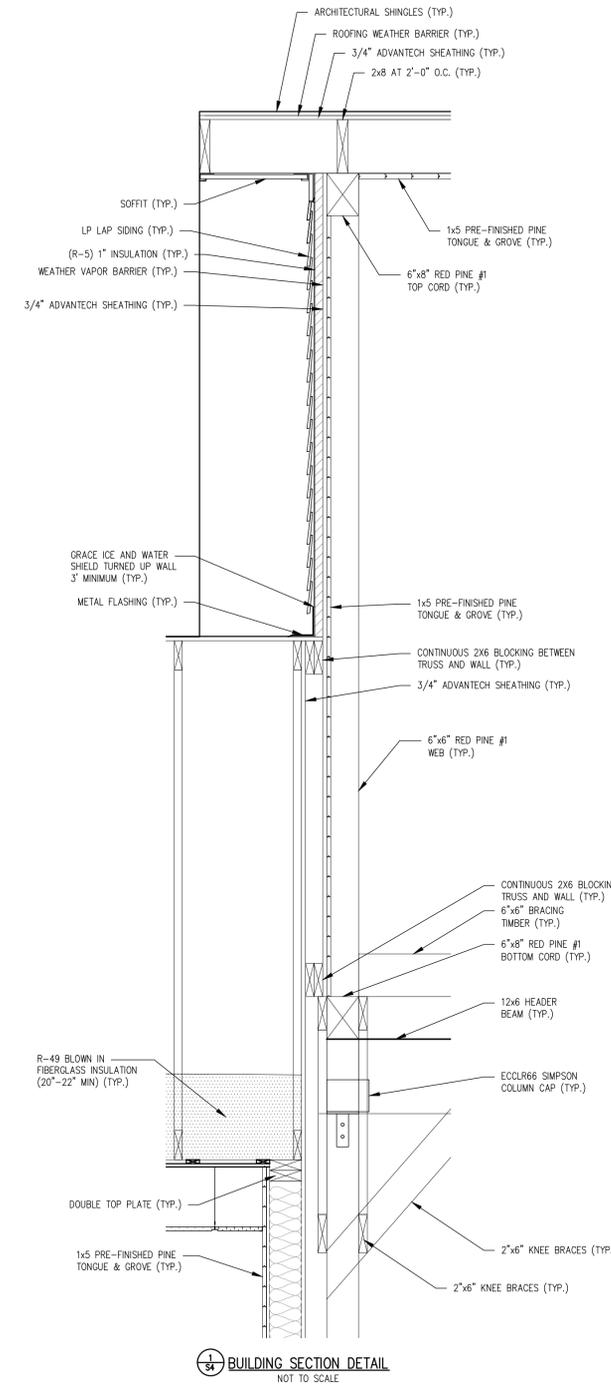
LEFT FRONT CONCRETE PIER (P4) DETAIL
NOT TO SCALE



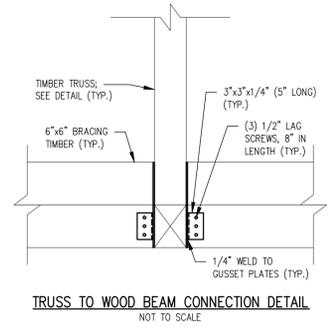
INTERMEDIATE FRONT CONCRETE PIER (P2) DETAIL
NOT TO SCALE



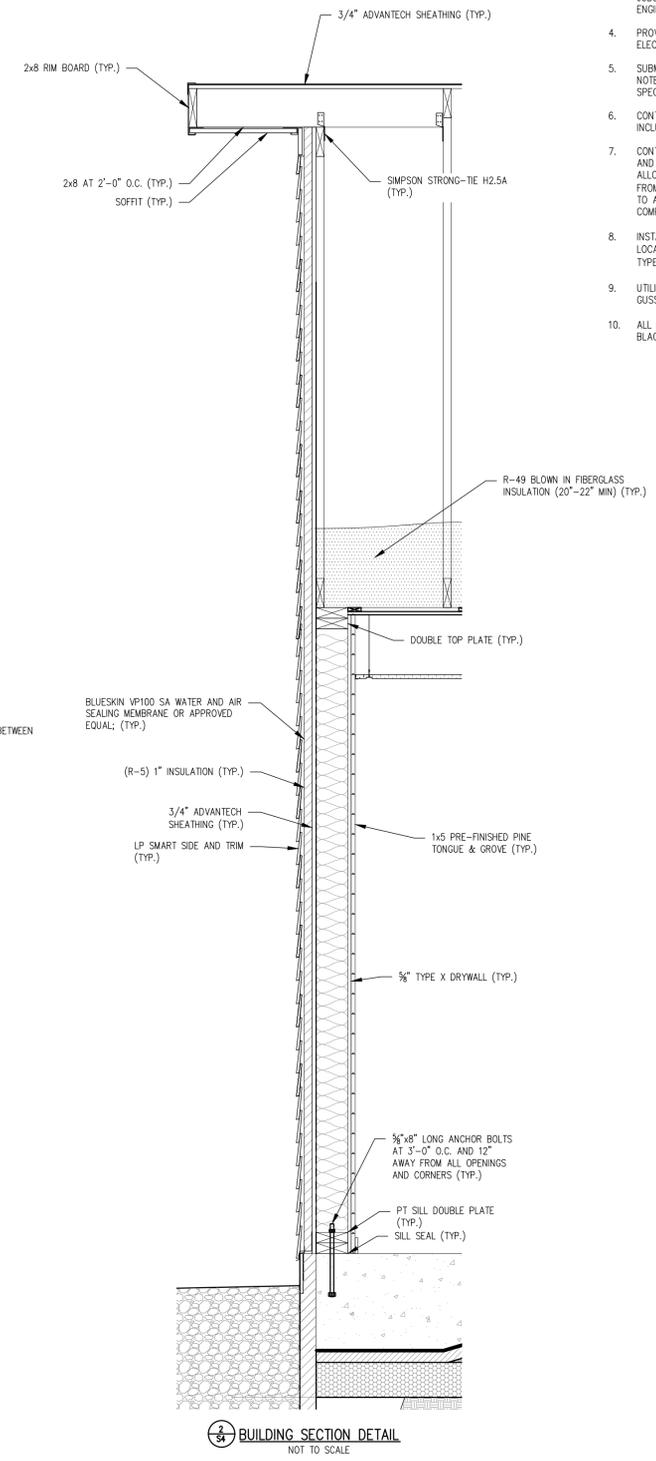
RIGHT FRONT CONCRETE PIER (P3) DETAIL
NOT TO SCALE



BUILDING SECTION DETAIL
NOT TO SCALE



TRUSS TO WOOD BEAM CONNECTION DETAIL
NOT TO SCALE



BUILDING SECTION DETAIL
NOT TO SCALE

GENERAL NOTES:

1. ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. SHOULD THERE BE A DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN UNKWARD OR IMPROPER INSTALLATION, NOTIFY ENGINEER FOR CLARIFICATION PRIOR TO INSTALLATION OF WORK. ANY WORK INSTALLED IN CONFLICT WITH THE FLOOR PLANS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
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8. INSTALL NEW SHEETROCK ON WALLS AND CEILINGS. ALL NEW GWB IN WET/DAMP LOCATIONS TO BE 5/8" MR (MOISTURE RESISTANT). ALL OTHER GWB SHALL BE 5/8" TYPE "X" UNLESS NOTED.
9. UTILIZE 3/4"x8" LONG A325 GRADE BOLTS WITH WASHERS PAINTED BLACK ON TRUSS GUSSET CONNECTIONS.
10. ALL GUSSED PLATES SHALL BE 1/4" THICK GRADE A36 STEEL AND PRIMED AND PAINTED BLACK.



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OLD TOWN, MAINE
SECTION DETAILS

Drawn: AT
Checked: RB
Scale: AS NOTED
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Project No: 2023085
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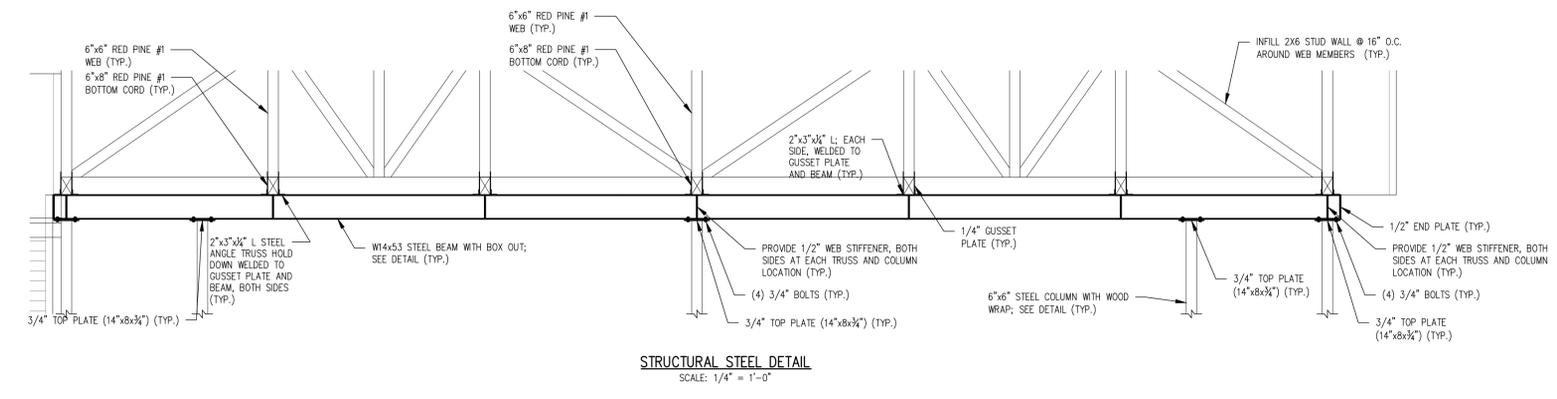
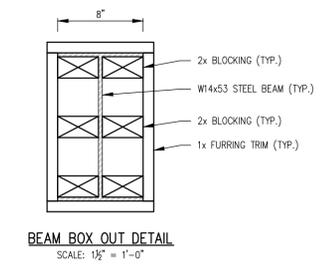
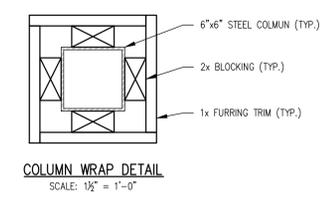
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FOR BID
01-23-2026



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 - CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE PRIOR TO THE BID TO CLEARLY EXAMINE AND UNDERSTAND THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE ALL REQUIRED ALLOWANCES IN THEIR BID. NO ALLOWANCE SHALL BE MADE FOR ERROR RESULTING FROM CONTRACTOR'S FAILURE TO VISIT THE SITE, REVIEW THE COMPLETE DOCUMENTS, AND TO ASK THE ENGINEER FOR CLARIFICATION ON ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR UNFORESEEN CONDITIONS.
 - INSTALL NEW SHEETROCK ON WALLS AND CEILINGS. ALL NEW GWB IN WET/DAMP LOCATIONS TO BE 5/8" MR (MOISTURE RESISTANT). ALL OTHER GWB SHALL BE 5/8" TYPE "X" UNLESS NOTED.
 - UTILIZE 3/4"x8" LONG A325 GRADE BOLTS WITH WASHERS PAINTED BLACK ON TRUSS GUSSET CONNECTIONS.
 - ALL GUSSED PLATES SHALL BE 1/4" THICK GRADE A36 STEEL AND PRIMED AND PAINTED BLACK.
 - ALL WELDS TO BE 3/4" FILLET WELD WITH E70XX, UNLESS NOTED OTHERWISE.



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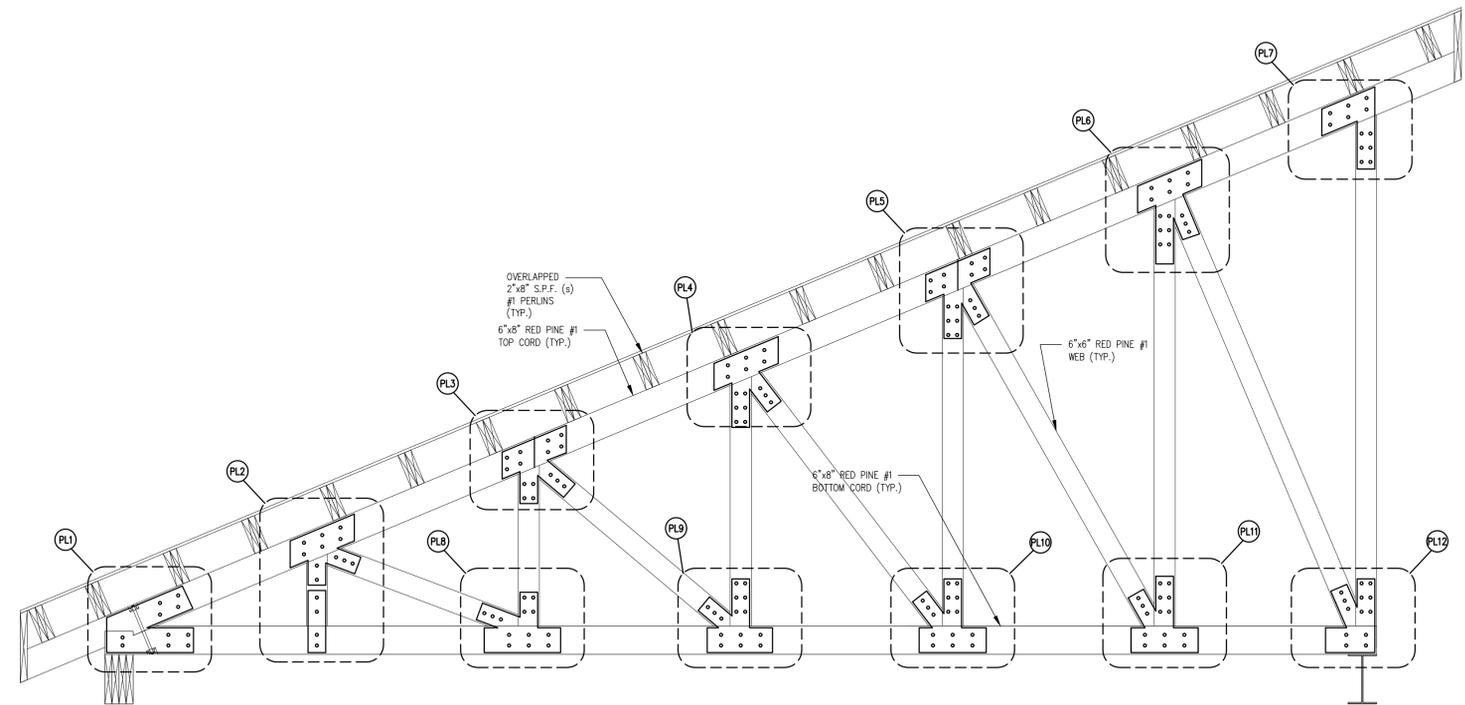
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OLD TOWN, MAINE
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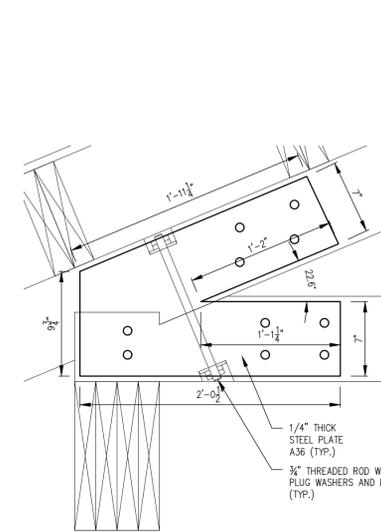
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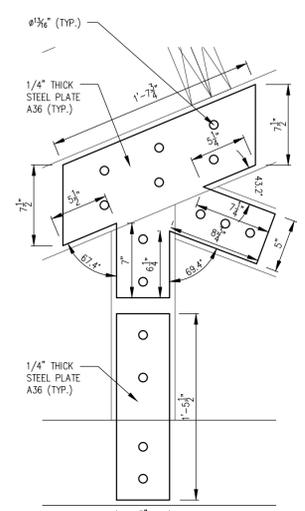
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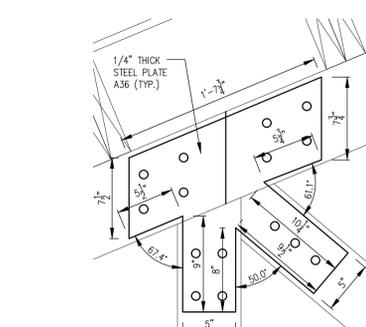
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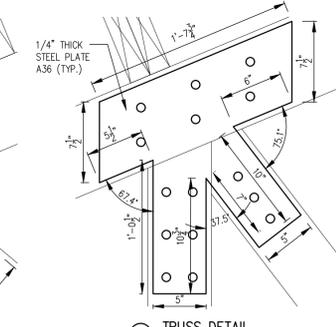
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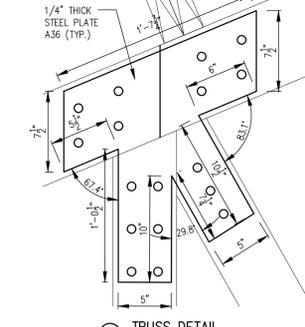
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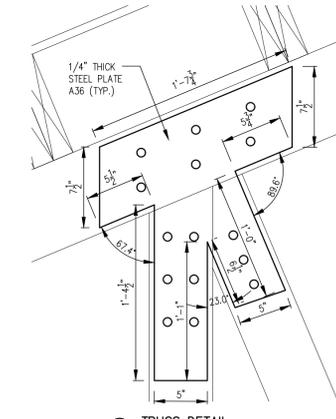
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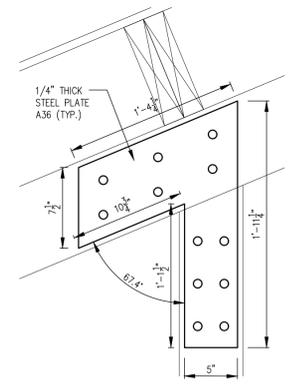
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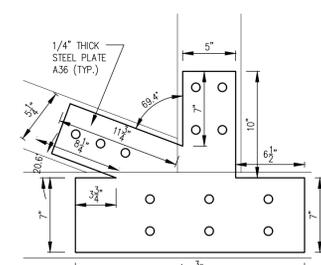
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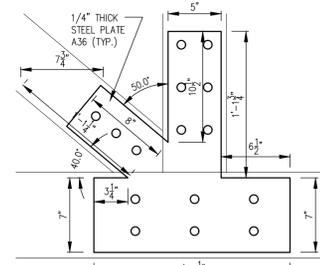
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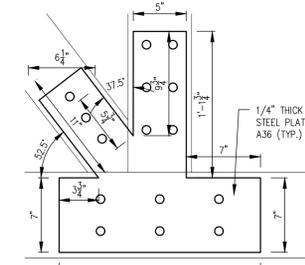
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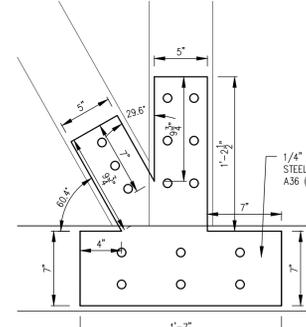
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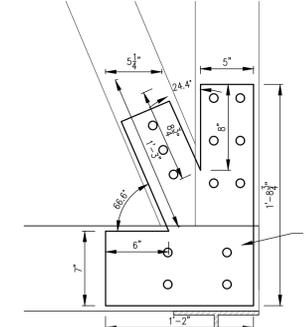
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TRUSS DETAIL
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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
- DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPPORT STRUCTURES, MECHANICAL, ELECTRICAL, AND FINISHES TO COMPLETE THE WORK AS INTENDED.
- SUBMIT ALL MANUFACTURERS TECHNICAL PRODUCT SUSTAINING THAT ALL COMPONENTS AS NOTED ON SCHEDULES TO MEET AND CONFORM ALL REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL INCLUDE AS PART OF THEIR BID ALL PERMIT COSTS AND FEES, INCLUDING THOSE FOR UTILITIES.
- CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE PRIOR TO THE BID TO CLEARLY EXAMINE AND UNDERSTAND THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE ALL REQUIRED ALLOWANCES IN THEIR BID. NO ALLOWANCE SHALL BE MADE FOR ERROR RESULTING FROM CONTRACTOR'S FAILURE TO VISIT THE SITE, REVIEW THE COMPLETE DOCUMENTS, AND TO ASK THE ENGINEER FOR CLARIFICATION ON ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR UNFORESEEN CONDITIONS.
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- UTILIZE 3/4"x8" LONG A325 GRADE BOLTS WITH WASHERS PAINTED BLACK ON ALL TRUSS GUSSET CONNECTIONS.
- ALL GUSSET PLATES SHALL BE 1/4" THICK GRADE A36 STEEL AND PRIMED AND PAINTED BLACK. PROVIDE GUSSET PLATES ON BOTH SIDES OF ALL TRUSS MEMBERS.
- ALL STEEL GUSSET PLATES FOR TIMBER TRUSSES SHALL BE PROVIDED BY OWNER.
- THROUGH BOLTS NOT SHOWN FOR CLARITY. PROVIDE HARDWARE AND THROUGH BOLTS FOR ALL CONNECTIONS AS SPECIFIED.



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 OLD TOWN, MAINE

TRUSS LAYOUT

Drawn: AT
 Checked: RB
 Scale: AS NOTED
 Date: 05-14-2024

Project No:
 2023085

Sheet Number:

FOR BID
 01-23-2026

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OWNER PROVIDED MATERIALS:

- OWNER PROVIDED MATERIALS ARE TO BE DELIVERED TO THE SITE AT NO EXPENSE TO THE CONTRACTOR.
- TIMBER HP TIMBERBATT INSULATION
 - QUANTITY: (480 PIECES) APPROXIMATE COVERAGE OF 2,352 SQUARE FEET.
 - SIZE: 5.5" THICK BY 15" WIDE BY 47" LONG BATT PANELS.
- WHITE PINE BOARDS:
 - QUANTITY: FOR BID ASSUME MATERIAL SUFFICIENT FOR ENTIRE PROJECT.
 - SIZE: 1"x6" NOMINAL IN 8' AND 10' LENGTHS CLEAR GRADE.
 - FINISH SURFACE, PREPARATION AND STAIN APPLICATION TO BE FINISHED BY CONTRACTOR PER PLANS AND SPECIFICATIONS.
- ADVANTECH SHEATHING
 - QUANTITY: (242 SHEETS)
 - SIZE: 4"x8"x3/4" WITH TONGUE AND GROOVE.
- PRE-FINISHED LP SMARTSIDE, SIDING AND TRIM.
 - FOR BID ASSUME MATERIAL SUFFICIENT FOR ENTIRE PROJECT.
 - SIDING TOUCH UP PAINTING, CAULKING AND SEALING TO BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ROUGH SAWN FULL DIMENSION NELMA GRADED TIMBERS AND LUMBER AS SHOWN IN TABLE S0.1. ALL OTHER LUMBER NOT PROVIDED SHALL BE SOURCED AND SUPPLIED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ALL 1/4" STEEL GUSSET PLATES FOR TIMBER TRUSSES SHALL BE SUPPLIED BY OWNER.
- ANY MATERIALS NOT LISTED ABOVE THAT ARE REQUIRED FOR COMPLETE AND CODE-COMPLIANT INSTALLATION (E.G. FASTENERS, HANGERS, FLASHINGS, VAPOR BARRIERS, OR ADDITIONAL MATERIALS) WILL BE SUPPLIED BY THE CONTRACTOR AND INCLUDED AT NO ADDITIONAL COST TO THE OWNER, UNLESS OTHERWISE NOTED.

TABLE S0.1
THE FOLLOWING MATERIALS WILL BE SUPPLIED BY THE OWNER TO BE USED BY THE CONTRACTOR FOR THIS PROJECT.

UMAINE SUPPLIED MATERIAL LIST		
SIZE	QUANTITY	LUMBER GRADE
2"x4"x12'	77	S.P.F.(s) #2
2"x6"x10'	86	S.P.F.(s) #2
2"x6"x12'	135	S.P.F.(s) #2
2"x8"x12'	224	S.P.F.(s) #2
2"x12"x12'	34	S.P.F.(s) #2
6"x6"x6'	6	RED PINE #1
6"x6"x8'	30	RED PINE #1
6"x6"x14'	107	RED PINE #1
6"x8"x12'	20	RED PINE #1
6"x8"x30'	11	RED PINE #1
6"x8"x14'	18	RED PINE #1
6"x8"x12'	8	RED PINE #1
8"x8"x12'	7	RED PINE #1

FINISH SCHEDULE						
ROOM	WALLS	CEILING	CEILING HEIGHT	FLOOR	BASE	REMARKS
CLASSROOM #100	T&G WOOD	ACOUSTICAL DROP CEILING	9'-0"	TROWEL FINISHED CONCRETE	WOOD TRIM STAINED	STAIN TO BE APPROVED BY UNIVERSITY OF MAINE
WORKSHOP	LP LAP SMART SIDING	T & G WOOD PANELS STAINED	OPEN TO TRUSSES	BROOM FINISHED CONCRETE	1X WOOD TRIM	--
MECHANICAL ROOM	GWB/PAINT	DRYWALL	10'-0"	TROWEL FINISHED CONCRETE	VINYL COVE BASE (BLACK)	--
BATHROOM	PVC/FRP BOARD	SUSPENDED CEILING TILE	8'-6"	TROWEL FINISHED CONCRETE	VINYL COVE BASE (BLACK)	--

FINISH NOTES:

- ALL EXPOSED RACEWAY/CONDUIT SHALL BE PAINTED TO MATCH WALL/CEILING FINISH.
- INSTALL APPROVED LOW-PROFILE METAL TRANSITION STRIPS TO TERMINATE FLOORING AT ALL DOORWAYS AND AREAS OF DIFFERENT FLOORING MATERIALS.
- REFER TO SPECIFICATION FOR FINISHES SECTIONS.
- ALL INTERIOR TRIM AND MOLDING PIECES SHALL BE PAINTED. SEE WINDOW DETAIL FOR EXCEPTION.
- VERIFY ALL PAINT AND FINISH COLORS WITH OWNER. CONTRACTOR RESPONSIBLE TO VERIFY SIZES PRIOR TO ORDERING.
- COORDINATE FINAL REFLECTIVE CEILING WITH ALL OTHER TRADES. FINAL LAYOUT TO BE APPROVED BY ENGINEER.
- INFILL AREAS, ARCHWAYS SHALL BE 2x4 STUD CONSTRUCTION 16" O.C. WITH SHEET ROCK BOTH SIDES, PAINTED WITH PAINTED TRIM, UNLESS OTHERWISE NOTED.
- PROVIDE STAINED WOOD TRIM AT ALL OPENINGS, WINDOWS, DOORS, ETC. UNLESS OTHERWISE NOTED.
- OWNER TO SELECT AND APPROVE ALL COLORS FROM STANDARD MANUFACTURER COLOR PALETTES UNLESS NOTED OTHERWISE.
- CLASSROOM #100 BOTTOM CHORD OR TRUSSES SHALL HAVE 5/8" TYPE-X DRYWALL.
- INSTALL BROOM FINISHES PARALLEL WITH CONCRETE SLOPE. TROWEL CONCRETE SLAB WITH FLOAT PLATES PRIOR TO BROOM FINISH.

ABBREVIATIONS:

- CON - CONCRETE
- CMU - CONCRETE MASONRY UNIT
- WD - WOOD
- TES - TO BE SELECTED
- GWB - GYPSUM WALL BOARD
- CAR - CARPET
- PNT - PAINT
- SAT - SUSPENDED ACOUSTICAL TILE CEILING
- VCB - VINYL COVE BASE
- CSF - COMPOSITION SHEET FLOORING
- VCT - VINYL COMPOSITION TILE
- VPL - VINYL PLANK FLOORING
- CFT - CERAMIC FLOOR TILE
- CWT - CERAMIC WALL TILE
- CGB - CERAMIC COVE BASE
- AFB - ABOVE FINISH FLOOR

DOOR SCHEDULE				
SYMBOL	SIZE	QTY	DOOR TYPE	HARDWARE - BASIS OF DESIGN
D1	7'-0" x 3'-0"	3	GALVANIZED HM DOOR 18 GA., 3070 FLUSH WITH WELDED HM FRAME 16 GA., HALF GLASS WINDOW	<ul style="list-style-type: none"> HINGES: ASSA ABLOY OPENING SOLUTIONS, #MP891 AS12 STAINLESS STD BEARING CLOSER: SARGENT ASSA ABLOY, 281 SERIES POWERGLIDE, INTERIOR APPLICATION RIM EXIT DEVICE: SARGENT ASSA ABLOY, 30 SERIES EXIT DEVICE, 2828 RIM TYPE DOOR PULL: ASSA ABLOY OPENING SOLUTIONS, ROCKWOOD BF 157-90 OFFSET DOOR PULLS, MATERIAL STAINLESS STEEL RIM CYLINDER: CORBIN RUSSELL PYRAMID KEY SYSTEM, TYPE 3070, LENGTH 1 1/2", FINISH 629-BRIGHT STAINLESS STEEL, INTERCHANGEABLE CORE BY UMAINE THRESHOLD: ASSA ABLOY OPENING SOLUTIONS, PEMMO COMMERCIAL THRESHOLD 276 SADDLE, WIDTH 7", HEIGHT 1/4", FINISH MILL ALUMINUM WEATHER STRIPPING: ASSA ABLOY OPENING SOLUTIONS, PEMMO BRUSH GASKETING, 45' ALUMINUM RETAINERS, FINISH C DOOR BOTTOM: ASSA ABLOY OPENING SOLUTIONS, PEMMO DOOR BOTTOM SWEEPS, FINISH C
D2	7'-0" x 3'-0"	1	GALVANIZED HM DOOR 18 GA., 21070 FLUSH WITH WELDED HM FRAME 16 GA.	<ul style="list-style-type: none"> HINGES: ASSA ABLOY OPENING SOLUTIONS, #MP891 AS12 STAINLESS STD BEARING CLOSER: SARGENT ASSA ABLOY, 281 SERIES POWERGLIDE, INTERIOR APPLICATION RIM EXIT DEVICE: SARGENT ASSA ABLOY, 30 SERIES EXIT DEVICE, 2828 RIM TYPE DOOR PULL: ASSA ABLOY OPENING SOLUTIONS, ROCKWOOD BF 157-90 OFFSET DOOR PULLS, MATERIAL STAINLESS STEEL RIM CYLINDER: CORBIN RUSSELL PYRAMID KEY SYSTEM, TYPE 3070, LENGTH 1 1/2", FINISH 629-BRIGHT STAINLESS STEEL, INTERCHANGEABLE CORE BY UMAINE THRESHOLD: ASSA ABLOY OPENING SOLUTIONS, PEMMO COMMERCIAL THRESHOLD 276 SADDLE, WIDTH 7", HEIGHT 1/4", FINISH MILL ALUMINUM WEATHER STRIPPING: ASSA ABLOY OPENING SOLUTIONS, PEMMO BRUSH GASKETING, 45' ALUMINUM RETAINERS, FINISH C DOOR BOTTOM: ASSA ABLOY OPENING SOLUTIONS, PEMMO DOOR BOTTOM SWEEPS, FINISH C

NOTES:

- ALL DOOR/HARDWARE SHALL BE HEAVY DUTY COMMERCIAL GRADE, PROVIDED AND INSTALLED BY GENERAL CONTRACTOR, UNIVERSITY OF MAINE TO PROVIDE AND INSTALL LOCK CORE.
- MORE THAN ONE OF EACH TYPE OF DOOR MAY BE REQUIRED.
- CONTRACTOR TO VERIFY EXISTING DIMENSIONS BEFORE ORDERING DOORS.
- SPECIFIC TYPE AND STYLE TO BE DETERMINED BY OWNER.
- CONTRACTOR TO INSTALL DOORS WITH AN 18" CLEAR FLOOR SPACE ON LATCH SIDE OF DOOR FRAME FOR ADA ACCESS.
- ALL DOOR GLASS TO BE SAFETY GLASS.
- ALL DOORS EXITING TO OUTSIDE OF THE BUILDING FOOTPRINT MUST HAVE PANIC EXIT DEVICE.
- PROVIDE (DOUBLE) KING STUDS MINIMUM AT BOTH SIDES OF ALL DOORS.

WINDOW SCHEDULE				
SYMBOL	R.O. (WxH)	TYPE	BASIS OF DESIGN	
W1	3'-0"x5'-0"	SINGLE HUNG VINYL	HARVEY WINDOWS AND DOORS MODEL CLASSIC SINGLE HUNG, UNIT SIZE: 35.5x59.5, RD: 36"x60", DOUBLE GLAZED, LOW-E ARGON FILLED, DSB, TEMPERED ENERGY STAR PERFORMANCE PACKAGE, OVERALL DP RATING = DP40, COLOR WHITE, LOCK OPTION = DOUBLE LIFT RAIL, FULL SCREEN, FULL SCREEN MULLION, FIBERGLASS MESH	
W2	6'-0"x5'-0"	SINGLE HUNG VINYL	HARVEY WINDOWS AND DOORS MODEL #10000-1 CLASSIC SINGLE HUNG, UNIT SIZE: 71x59.5, RD: 72"x60", DOUBLE GLAZED, LOW-E ARGON FILLED, DSB, TEMPERED ENERGY STAR PERFORMANCE PACKAGE, OVERALL DP RATING = DP40, COLOR WHITE, LOCK OPTION = DOUBLE LIFT RAIL, FULL SCREEN, FULL SCREEN MULLION, FIBERGLASS MESH	

NOTES:

- MORE THAN ONE OF EACH TYPE OF WINDOW MAY BE REQUIRED.
- CONTRACTOR TO VERIFY DIMENSIONS BEFORE ORDERING WINDOWS.
- ALL GLASS TO BE LOW-E ARGON FILLED SAFETY GLASS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ALL NECESSARY FIELD MEASUREMENTS PRIOR TO ORDERING.

GENERAL CONSTRUCTION NOTES:

- REFER TO MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
- ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. SHOULD THERE BE ANY DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN UNWARRANTED OR IMPROPER INSTALLATION, NOTIFY ENGINEER FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE FLOOR PLANS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
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- CONTRACTOR SHALL PROVIDE STIFFENERS, BRACING, BACKING PLATES AND SUPPORTING BRACKETS, ETC. AS REQUIRED FOR THE PROPER INSTALLATION AND SUPPORT OF CABINETS.
- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPPORT STRUCTURES, MECHANICAL, ELECTRICAL, AND FINISHES TO COMPLETE THE WORK AS INTENDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
- THIS SET OF PLANS IS BASED ON THE ORIGINAL BUILDING PLANS AND LIMITED SITE OBSERVATION. ACTUAL CONDITIONS MAY VARY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF CEILINGS, WALLS, FLOORS, ETC. RELATED TO NEW WORK. NOTIFY ENGINEER UPON FINDING ANY DAMAGE.
- CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL ASSOCIATED CONSTRUCTION AND DEMOLITION DEBRIS.
- THE CONTRACTOR SHALL VERIFY ELECTRICAL CONDITIONS AND CONFIRM THAT THE NEW ELECTRICAL WORK WILL MEET CURRENT ELECTRICAL CODE REQUIREMENTS.
- ALL NEW GWB TO BE 5/8" TYPE "X" UNLESS NOTED.
- GENERAL CONTRACTOR AND SUB CONTRACTORS ARE RESPONSIBLE FOR PROVIDING ALL REMOVALS AND PATCHING REQUIRED TO COMPLETE THEIR WORK IN ACCORDANCE WITH THE INTENDED DESIGN.
- COORDINATE FIRE EXTINGUISHER LOCATIONS WITH LOCAL A.H.J.
- CONTRACTOR SHALL PREPARE, PATCH AND LEVEL ALL WALL SURFACES PRIOR INSTALLATION OF FIXTURES, DOORS, WINDOWS, ETC. WALLS TO BE SQUARE. CONTRACTOR TO SMOOTH BATHROOM WALLS, PROVIDING A FLAT/EVEN SURFACE, PRIOR TO INSTALLATION NEW WALL PANELS.
- CONTRACTOR SHALL PREP ALL FLOOR SURFACES PRIOR TO INSTALLATION OF SUB FLOOR AND FLOORING. THE CONTRACTOR IS RESPONSIBLE FOR LEVELING THE FLOOR WITHIN TOLERANCES IN SPECIFICATIONS.

FINISH NOTES:

- ALL EXTERIOR EXPOSED WOOD TO RECEIVE STAIN AND SEALER EQUAL TO OLYMPIC MAXIMUM SEMI TRANSPARENT EXTERIOR WOOD STAIN WITH SCUF GUARD. SEE SPECIFICATIONS FOR APPLICATION REQUIREMENTS. SUPPLY STANDARD FINISH COLOR PALLET FROM MANUFACTURER TO BE SELECTED BY OWNER.
- CONTRACTOR SHALL PREPARE FLOOR SURFACES PRIOR TO INSTALLATION OF NEW FLOOR COATING BY OWNER. SLOPE CONCRETE 1/8" PER FOOT TO DRAIN IN MECHANICAL ROOM AND BATHROOM.
- CONTRACTOR SHALL PREP EXISTING WALL AND CEILING SURFACES AS REQUIRED PRIOR TO PAINTING. SAND SMOOTH, PRIME AND PAINT AS REQUIRED.
- ALL NEW METAL DOOR FRAMES TO BE PAINTED.
- ALL WALL CONSTRUCTION SHALL BE PAINTED.
- ALL EXPOSED RACEWAY/CONDUIT SHALL BE PAINTED TO MATCH WALL/CEILING FINISH.
- REFER TO SPECIFICATION FOR FINISHES SECTIONS.
- BLEND NEW CONSTRUCTION FINISHES AS SMOOTHLY AS POSSIBLE.
- ALL NEW INTERIOR TRIM AND MOLDING PIECES SHALL BE PAINTED.



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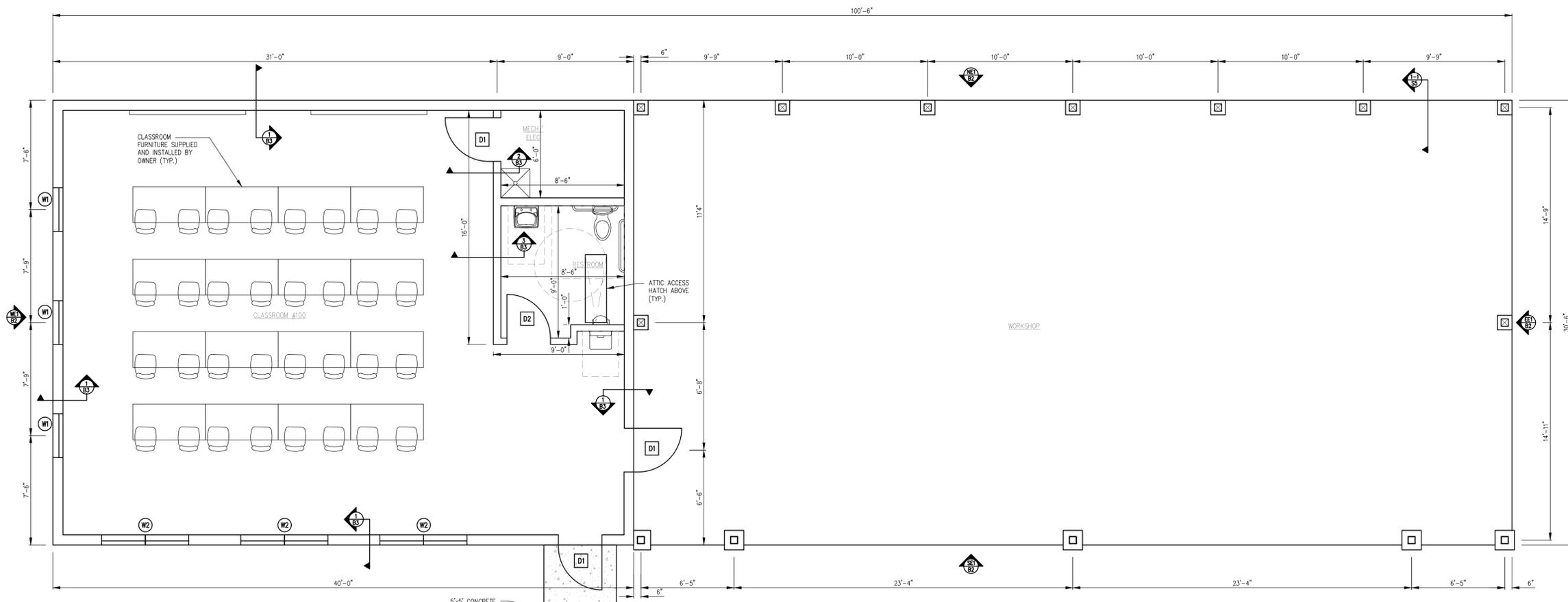
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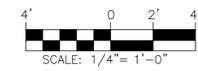
UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
BUILDING FLOOR PLAN

Drawn: AT
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Sheet Number:

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BUILDING FLOOR PLAN
SCALE: 1/4" = 1'-0"



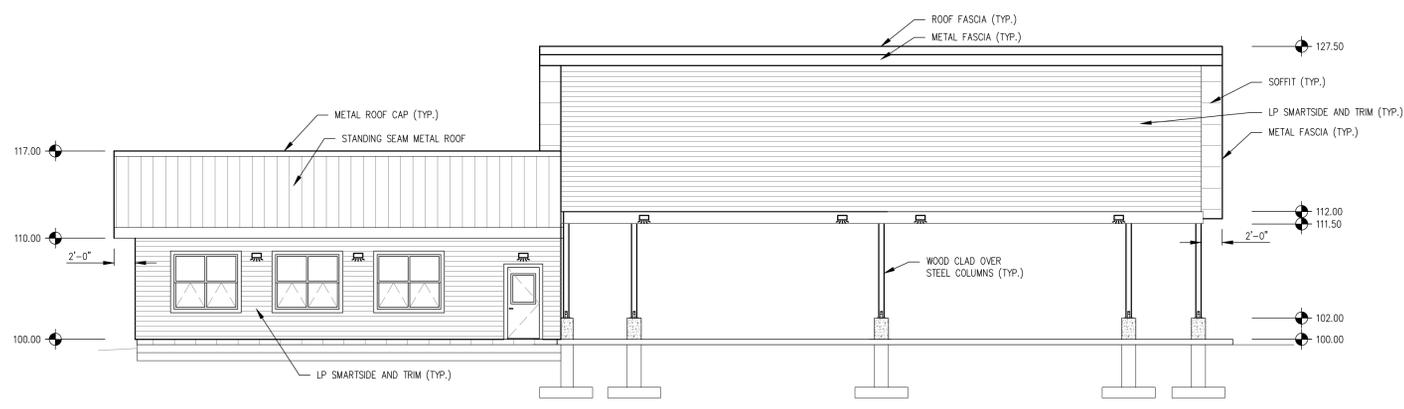
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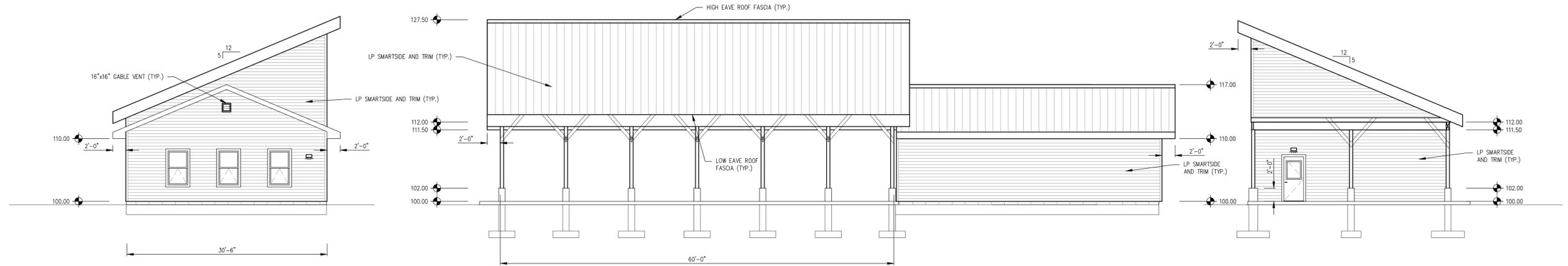
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4. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPPORT STRUCTURES, MECHANICAL, ELECTRICAL, AND FINISHES TO COMPLETE THE WORK AS INTENDED.
5. SUBMIT ALL MANUFACTURERS TECHNICAL PRODUCT SUSTAINING THAT ALL COMPONENTS AS NOTED ON SCHEDULES TO MEET AND CONFORM ALL REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
6. CONTRACTOR SHALL INCLUDE AS PART OF THEIR BID ALL PERMIT COSTS AND FEES, INCLUDING THOSE FOR UTILITIES.
7. CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE PRIOR TO THE BID TO CLEARLY EXAMINE AND UNDERSTAND THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE ALL REQUIRED ALLOWANCES IN THEIR BID. NO ALLOWANCE SHALL BE MADE FOR ERROR RESULTING FROM CONTRACTOR'S FAILURE TO VISIT THE SITE, REVIEW THE COMPLETE DOCUMENTS, AND TO ASK THE ENGINEER FOR CLARIFICATION ON ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR UNFORESEEN CONDITIONS.
8. INSTALL NEW SHEETROCK ON WALLS AND CEILINGS. ALL NEW GWB IN WET/DAMP LOCATIONS TO BE 5/8" MR (MOISTURE RESISTANT). ALL OTHER GWB SHALL BE 5/8" TYPE "X" UNLESS NOTED.
9. INSTALL NEW DUCTWORK NEW RIGID, SMOOTH TRANSITIONS AND ELBOWS AS REQUIRED TO TERMINATE AT GRILLE/HOOD IN EXTERIOR WALL. INSTALL BACKDRAFT DAMPERS AND INSECT SCREENS AS REQUIRED. DO NOT TERMINATE ABOVE WINDOWS.
10. CONTRACTOR SHALL PREP, PATCH AND LEVEL ALL WALL SURFACES PRIOR INSTALLATION OF FIXTURES, DOORS, WINDOWS, ETC. WALLS TO BE SQUARE. CONTRACTOR TO SMOOTH BATHROOM WALLS, PROVIDING A FLAT/EVEN SURFACE, PRIOR TO INSTALLATION NEW WALL PANELS.
11. CONTRACTOR SHALL PREP ALL FLOOR SURFACES PRIOR TO INSTALLATION OF SUB FLOOR AND FLOORING. THE CONTRACTOR IS RESPONSIBLE FOR LEVELING THE FLOOR WITHIN TOLERANCES IN SPECIFICATIONS.
12. ALL EXTERIOR EXPOSED WOOD TO RECEIVE STAIN AND SEALER EQUAL TO OLYMPIC MAXIMUM SEMI-TRANSPARENT EXTERIOR WOOD STAIN WITH SCUFF GUARD. SEE SPECIFICATIONS FOR APPLICATION REQUIREMENTS. SUPPLY STANDARD FINISH COLOR PALETTE FROM MANUFACTURER TO BE SELECTED BY OWNER.



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



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

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

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

NO.	DATE	DESCRIPTION



UNIVERSITY OF MAINE
DEMERRIT FOREST SAWMILL
OLD TOWN, MAINE
BUILDING ELEVATIONS

Drawn: AT
Checked: RB
Scale: AS NOTED
Date: 05-14-2024
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FOR BID
01-23-2026

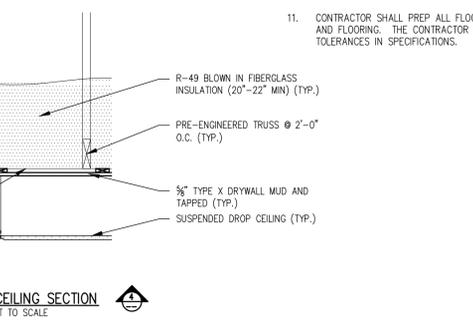
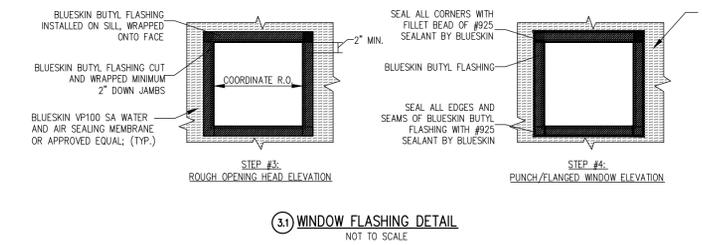
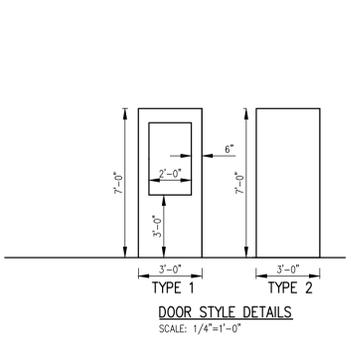
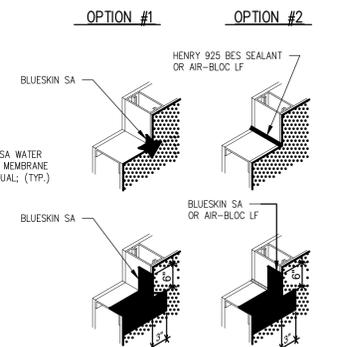
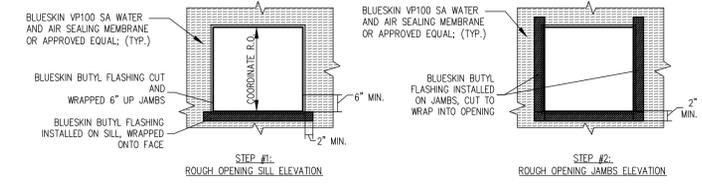
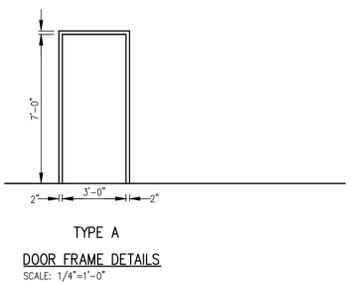
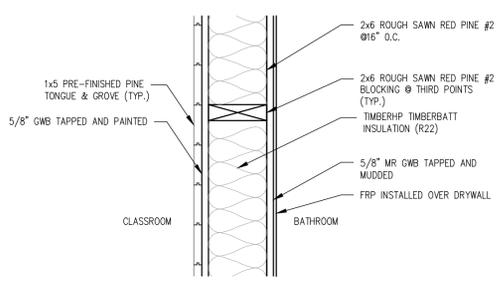
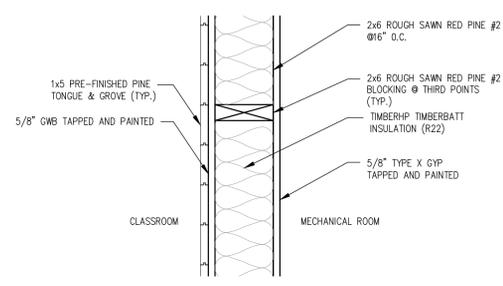
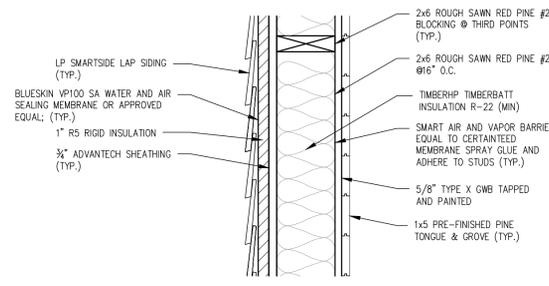
B2



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GENERAL NOTES:

- ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. SHOULD THERE BE A DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN UNWARRANTED OR IMPROPER INSTALLATION, NOTIFY ENGINEER FOR CLARIFICATION PRIOR TO INSTALLATION OF WORK. ANY WORK INSTALLED IN CONFLICT WITH THE FLOOR PLANS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
- DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPPORT STRUCTURES, MECHANICAL, ELECTRICAL, AND FINISHES TO COMPLETE THE WORK AS INTENDED.
- SUBMIT ALL MANUFACTURERS TECHNICAL PRODUCT SUSTAINING THAT ALL COMPONENTS AS NOTED ON SCHEDULES TO MEET AND CONFORM ALL REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL INCLUDE AS PART OF THEIR BID ALL PERMIT COSTS AND FEES, INCLUDING THOSE FOR UTILITIES.
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- CONTRACTOR SHALL PREP ALL FLOOR SURFACES PRIOR TO INSTALLATION OF SUB FLOOR AND FLOORING. THE CONTRACTOR IS RESPONSIBLE FOR LEVELING THE FLOOR WITHIN TOLERANCES IN SPECIFICATIONS.



BUILDING ENERGY NOTES:

- BUILDING CONSTRUCTION SHALL ADHERE TO MUBEC, INCLUDING IBC 2021, IECC 2021.
- THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS - CLIMATE ZONE 6.

	R-VALUE METHOD	U-FACTOR METHOD
ROOFS		
INSULATION ENTIRELY ABOVE ROOF DECK	R-30 CI	U-0.032
METAL BUILDINGS (THERMAL SPACE BLOCK REQUIRED)	R-25 + R-11 LS	U-0.031
ATTIC AND OTHER	R-49	U-0.021
WALLS ABOVE GRADE		
MASS	R-13.3 CI	U-0.080
METAL BUILDING	R-13 + R-14 CI	U-0.052
METAL FRAMED	R-13 + R-12.5 CI	U-0.049
WOOD FRAMED AND OTHER	R-13 + R-7.5 CI OR 20" + R-3.8 CI	U-0.051
WALLS BELOW GRADE		
BELOW GRADE WALL	R-10 CI	U-0.092
MASS	R-16.7 CI	U-0.051
JOIST/FRAMING	R-38	U-0.027
SLAB-ON-GRADE FLOORS		
UNHEATED SLABS	R-20 FOR 24" BELOW	F=0.51
HEATED SLABS	R-15 FOR 36" BELOW	F=0.62
OPAQUE DOORS	R-4.75	U-0.31
NON-SWINGING		
3. BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTORS/SHGC.		
U-FACTOR VERTICAL		
FIXED FENESTRATION	0.36	---
OPERABLE FENESTRATION	0.43	---
ENTRANCE DOORS	0.77	---
SHGC		
ORIENTATION	SEW	N
PF<0.2	0.40	0.53
0.2<PF<0.5	0.48	0.58
PF>0.5	0.64	0.64

USE GROUP/ OCCUPANCY CLASSIFICATION

THE BUILDING IS CONSIDERED A SINGLE USE BUILDING. THE BUILDING CODE REFERS TO USE GROUPS, THE LIFE SAFETY CODE REFERS TO THE OCCUPANCY THE BUILDING USE GROUP AND OCCUPANCY PROVIDED.

FLOOR	SPACE	USE GROUP	OCCUPANCY
FIRST FLOOR	TEACHING ROOM	B	BUSINESS
	WOOD LABORATORY	B	BUSINESS
	RESTROOM + MECHANICAL	B	BUSINESS

GENERAL

GENERAL	3,000 SF
HEIGHT	1
STORIES	LESS THAN 40
FEET	100R
OPEN PERMETER TO 30' CLEAR SPACE	100R
SPRINKLERS	NO
CONSTRUCTION TYPE	V

OCCUPANT LOADS

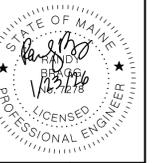
FLOOR	SPACE	AREA	FACTOR	OL
FIRST FLOOR	TEACHING ROOM	1,026	1:20	41
	WOOD LABORATORY	1,800	1:50	36
	RESTROOM + MECHANICAL	174	1:50	3
TOTAL FIRST FLOOR		3,000 SF		80

CODE SUMMARY

APPLICABLE CODES
 MAINE UNIFORM BUILDING CODE AND ENERGY CODE "MUBEC"
 CONSISTS OF THE FOLLOWING APPLICABLE CODE:
 ALL CODES SHALL INCLUDE CHANGES/AMENDMENTS BY THE STATE OF MAINE
 2021 INTERNATIONAL BUILDING CODE (IBC)
 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
 2016 ASHRAE 62.1 (VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY)
 2016 ASHRAE 90.1 (ENERGY STANDARD FOR BUILDING, EXCEPT LOW-RISE RESIDENTIAL BUILDINGS)
 MAINE STATE INTERNATIONAL PLUMBING CODE BASED ON THE 2021 UNIFORM PLUMBING CODE
 2023 NATIONAL ELECTRIC CODE (NEC)
 FIRE/LIFE SAFETY
 NFPA LIFE SAFETY CODE AS ADOPTED BY THE STATE OF MAINE
 INCLUDING BUT NOT LIMITED TO
 2018 NFPA 001: FIRE CODE
 2018 NFPA 101: LIFE SAFETY CODE

REVISIONS

NO.	DATE	DESCRIPTION



UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
 OLD TOWN, MAINE
BUILDING DETAILS

Drawn: AT
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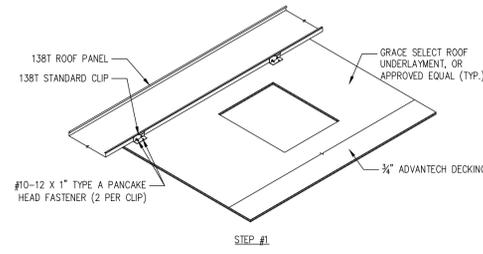
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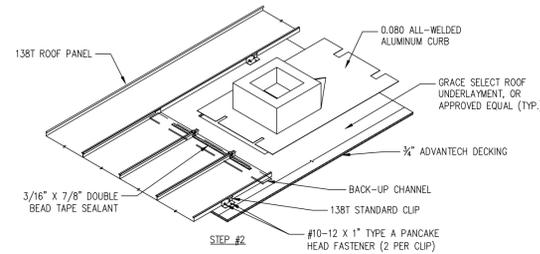
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GENERAL NOTES:

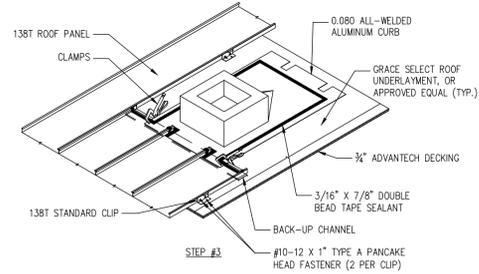
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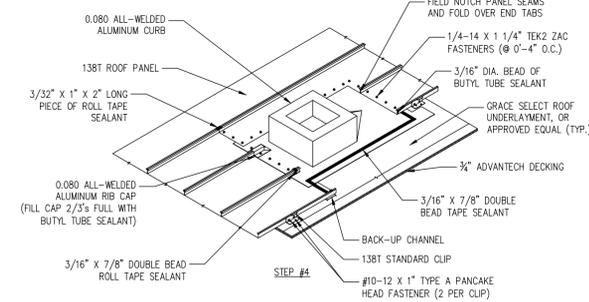
STEP #1



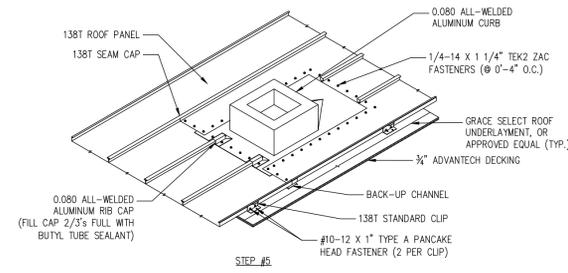
STEP #2



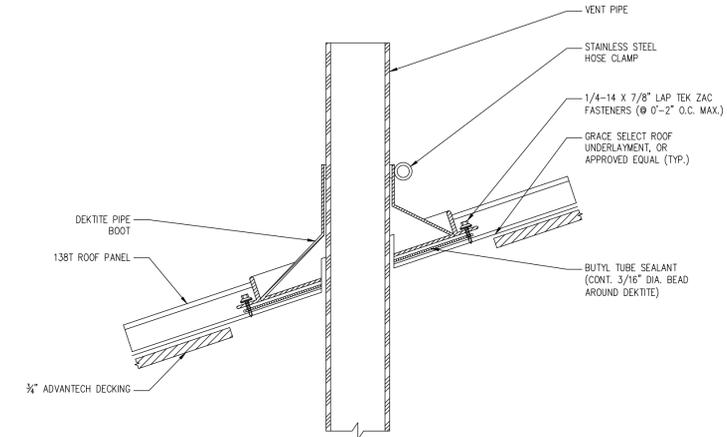
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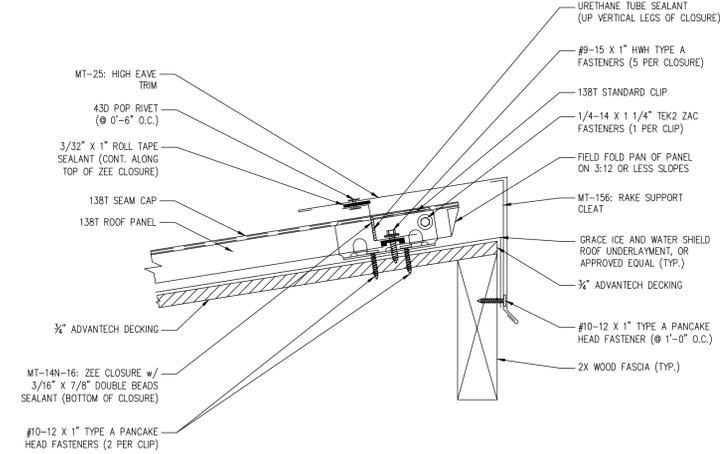
STEP #4



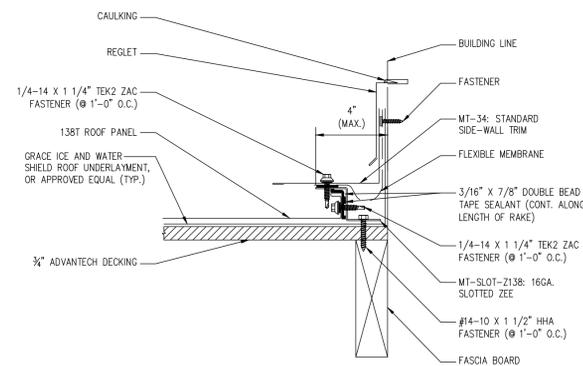
ROOF CURB DETAILS
NOT TO SCALE



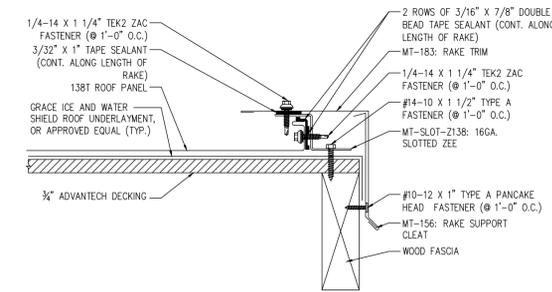
ROOF PIPE PENETRATION DETAIL
NOT TO SCALE



ROOF HIGH SIDE EAVE DETAIL
NOT TO SCALE



ROOF FLOATING RAKE TIE-IN DETAIL
NOT TO SCALE



ROOF RAKE DETAIL
NOT TO SCALE

NO.	DATE	DESCRIPTION



UNIVERSITY OF MAINE
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OLD TOWN, MAINE
ROOFING DETAILS

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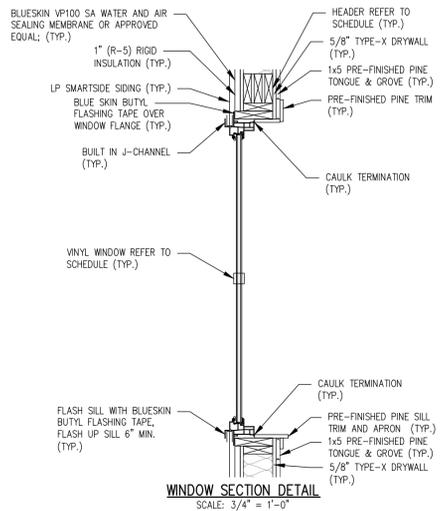
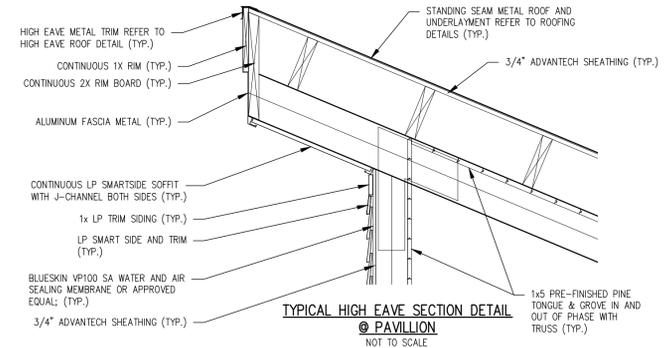
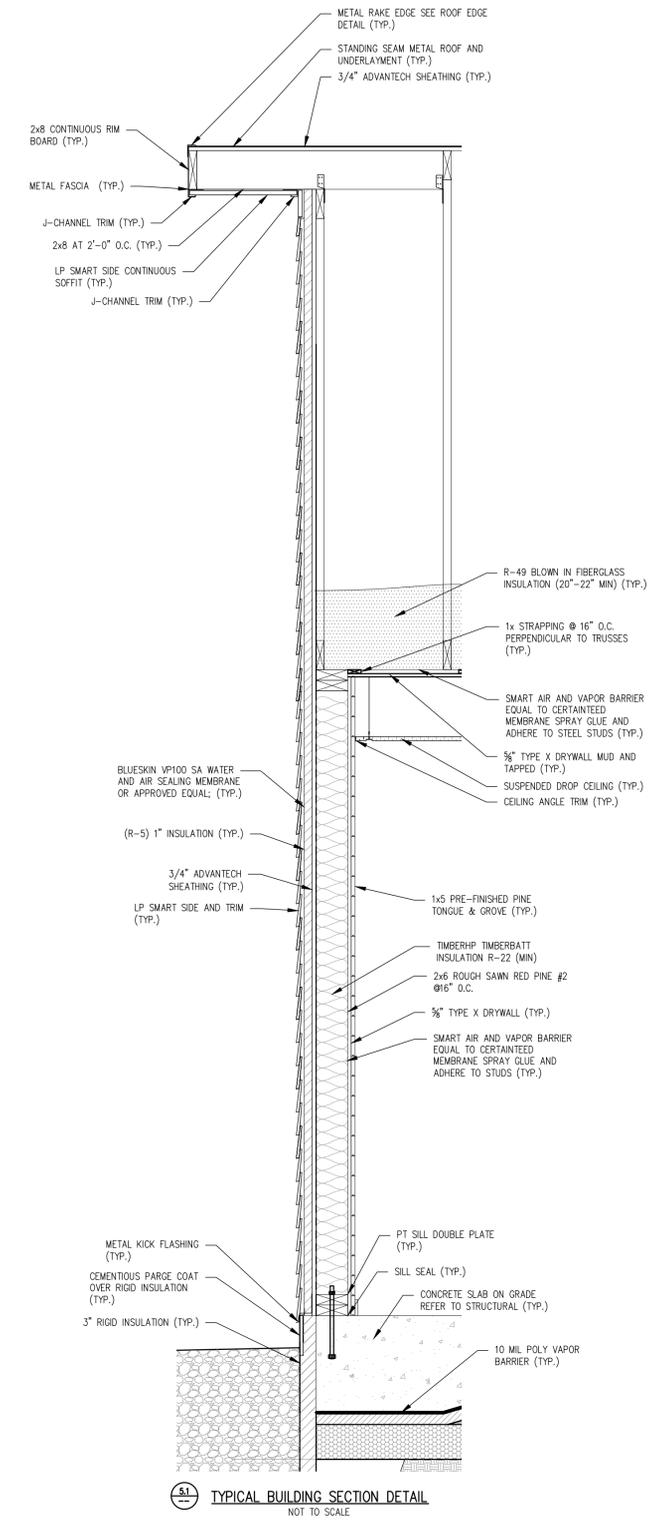


UNIVERSITY OF MAINE
DEMERITT FOREST SAWMILL
OLD TOWN, MAINE
BUILDING DETAILS

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01-23-2026



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PLUMBING LEGEND

— CW —	COLD WATER PIPING	— P —	PIPING RISE/CONNECTION POINT	— D —	DRAIN
--- CW ---	COLD WATER PIPING BELOW SLAB	— T —	THERMOMETER	— S —	STRAINER
— CW-E —	EXISTING COLD WATER PIPING	— RV —	RELIEF VALVE	— C —	CIRCULATOR PUMP
--- CW-E ---	EXISTING COLD WATER PIPING BELOW SLAB	— A —	AQUASTAT	— D —	DIRECTION OF FLOW
— HWS —	HOT WATER SUPPLY PIPING	— RD —	ROOF DRAIN	— A —	AIR VENT
--- HWS ---	HOT WATER SUPPLY PIPING BELOW SLAB	— CO —	CLEAN OUT	— S —	CONCRETE SLOPE DIRECTION
— HWS-E —	EXISTING HOT WATER PIPING	— WCO —	WALL CLEAN OUT	— BFP —	BACK FLOW PREVENTER
--- HWS-E ---	EXISTING HOT WATER PIPING BELOW SLAB	— FCO —	FLOOR CLEAN OUT		
— HWR —	HOT WATER RETURN PIPING	— FD —	FLOOR DRAIN		
--- HWR ---	HOT WATER RETURN PIPING BELOW SLAB	— VBS —	VENT PIPING BELOW SLAB		
— HWR-E —	EXISTING HOT WATER RETURN PIPING	— VTA —	VENT TO ATTIC		
--- HWR-E ---	EXISTING HOT WATER RETURN PIPING BELOW SLAB	— VTR —	VENT THRU ROOF		
— SAN —	BELOW SLAB SANITARY PIPING	— AFF —	ABOVE FINISHED FLOOR		
--- SAN ---	EXISTING SANITARY PIPING	— BFF —	BELOW FINISHED FLOOR		
— V —	VENT PIPING	— VTC —	NEW VENT TO ABOVE SUSPENDED CEILING		
— CD —	CONDENSATE DRAIN PIPING	— C —	CONNECT TO EXISTING		
— RD —	ROOF DRAIN PIPING	— H —	HOSE BIBB FIXTURE (FROST PROOF)		
— BV —	BALL VALVE	— G —	GATE VALVE		
— GV —	GATE VALVE	— PG —	PRESSURE GAUGE		
— CV —	CHECK VALVE (LIFT TYPE)	— PS —	PRESSURE SWITCH		
— UC —	UNION CONNECTION				

PLUMBING NOTES:

- WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2021 UNIFORM PLUMBING CODE, AND THESE CONTRACT DOCUMENTS.
- COORDINATE LOCATION OF PLUMBING WITH ALL OTHER TRADES. REFER TO FLOOR PLANS, MECHANICAL AND ELECTRICAL PLANS FOR COORDINATION.
- ALL PIPING SHALL BE RUN CONCEALED WHERE POSSIBLE.
- ALL PIPING IS SHOWN DIAGRAMMATICALLY. ACTUAL LOCATIONS AND LAYOUT SHALL BE DETERMINED IN THE FIELD AND UPDATED ON PLANS FOR FINAL AS BUILT.
- NO STRUCTURAL MEMBER SHALL BE CUT OR ALTERED WITHOUT WRITTEN APPROVAL OF ENGINEER.
- ALL PLUMBING SHALL BE SUPPORTED FROM THE BUILDING'S STRUCTURAL FRAMING.
- ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES, AND PITCHED TO LOW POINTS.
- ALL PIPING THROUGH ROOFS, WALLS AND PARTITIONS SHALL HAVE PIPE SLEEVES. ALL PIPING PENETRATING FIRE RATED WALLS, FIRE RATED PARTITIONS, OR FLOORS SHALL BE PROTECTED WITH A LISTED FIRE STOPPING SYSTEM PER NFPA 101, "CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES", LATEST EDITION.
- ALL PIPING, BURIED OR OTHERWISE, SHALL BE INSULATED.
- PROVIDE SHOCK ABSORBERS SIZED TO P.D.I. STANDARDS WHERE REQUIRED TO AVOID WATER HAMMER. PROVIDE SHOCK ABSORBERS UPSTREAM FROM ALL WATER CLOSES AND AT ALL QUICK ACTING DEVICES.
- PROVIDE DRAW-OFFS AT LOW POINTS IN DOMESTIC WATER PIPING. PITCH PIPING TO DRAINS.
- PROVIDE ACCESSIBLE CLEANOUTS WHERE INDICATED OR WHERE REQUIRED BY CODE.
- ALL FIXTURES SHALL HAVE FLOW RESTRICTORS AND BE WATER SAVING TYPES. ALL FLUSH HANDLES TO BE LOCATED ON OPEN SIDE OF LAVATORIES.
- ALL PIPING DROPS TO FIXTURES SHALL BE ANCHORED SOLID TO WALL WITH STEEL SUPPORT BRACKETS AND ADJUSTABLE CLIPS.
- BELOW SLAB SANITARY WASTE PIPING SHALL BE MINIMUM 2" SIZE OR IN ACCORDANCE WITH PLANS.
- ALL WALL FIXTURES SHALL BE CARRIER MOUNTED. COORDINATE CARRIER DIMENSIONS, CONFIGURATION (COMPACT, VERTICAL AND HORIZONTAL) WITH CHASES AND STRUCTURAL MEMBERS.
- ALL VENT PIPING IS NOT SHOWN ON THE PLANS. VENT PER PLUMBING CODE REQUIREMENTS. ALL FIXTURES SHALL BE BACK VENTED. COORDINATE VENT PIPING ROOF PENETRATIONS WITH OWNER AND ARCHITECT.
- TOP OF FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR.
- RUBBER INSULATORS REQUIRED AT ANY AND ALL PLUMBING/MECHANICAL/ELECTRICAL UNITS WHICH ATTACH TO STRUCTURAL MEMBERS.
- CONTRACTOR WILL PERFORM A COMPLETE FLUSH AFTER ALL CONSTRUCTION IS COMPLETE.
- CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS WHERE REQUIRED. COORDINATE ACCESS PANEL LOCATIONS WITH DRAIN VALVES, MIXING VALVES, PIPING CONNECTIONS, AND TO ACCOMMODATE CONNECTIONS. ACCESS PANELS MUST BE INSTALLED AT PIPING AND ASSOCIATED VALVES THAT WILL NEED TO BE ACCESSED FOR MAINTENANCE/SERVICE. THE ACCESS PANELS NEED TO BE 12"x12" MINIMUM, AND SHALL BE FIRE RATED WHERE REQUIRED.
- CONTRACTOR SHALL PROVIDE, INSTALL, TEST AND VERIFY ALL DOMESTIC HOT WATER TEMPERATURES. ALL ROOMS, EXCEPT CUSTODIAL ROOMS, SHALL BE NO GREATER THAN 109°F. TEST AND VERIFY ALL MIXING VALVES. ALL LAVATORIES AND SINKS SHALL HAVE MIXING VALVES AT POINT OF USE. ADJUST HOT WATER TEMPERATURE AT ALL FIXTURES. COORDINATE WITH OWNER FOR REQUIRED TEMPERATURES.
- PROVIDE VALVES AT ALL BRANCH LOCATIONS AND ALL PLUMBING FIXTURES.
- CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED PIPING, DRAINS, VENTS, ETC. FOR ALL PLUMBING FIXTURES. COORDINATE WITH ALL OTHER TRADES AND OWNER.
- CONTRACTOR SHALL PROVIDE ALL PIPING AS REQUIRED FOR COMPLETE INSTALLATION OF ALL SYSTEMS. NOT ALL TEES, BRANCHES, VALVES, RISERS, ETC. MAY BE SHOWN. CONTRACTOR SHALL VERIFY PIPING IS CONNECTED TO ALL FIXTURES, EQUIPMENT, HEAT EXCHANGERS, TANKS, ETC.
- CONTRACTOR SHALL INSTALL PIPING ABOVE SUSPENDED CEILING WHERE REQUIRED. IN AREAS WHICH CONTAIN HARD CEILINGS, CONTRACTOR SHALL INSTALL PIPING IN NEARBY WALLS WHERE APPLICABLE.
- CONTRACTOR SHALL COORDINATE ALL PIPING REQUIREMENTS AND PATHWAYS WITH OWNER AND ENGINEER. ADJUST QUANTITY, SIZE, AND ROUTE AS REQUIRED.
- CONTRACTOR SHALL COMBINE VENTS FOR PLUMBING FIXTURES WITHIN WALLS OR ABOVE CEILINGS. VENTS SHALL RISE TO ATTIC TO COMBINE PRIOR TO VENTING THRU THE ROOF.
- CONTRACTOR SHALL ENSURE ALL FLOOR DRAINS HAVE TRAP PRIMER CONNECTIONS AND CW PIPING INSTALLED.

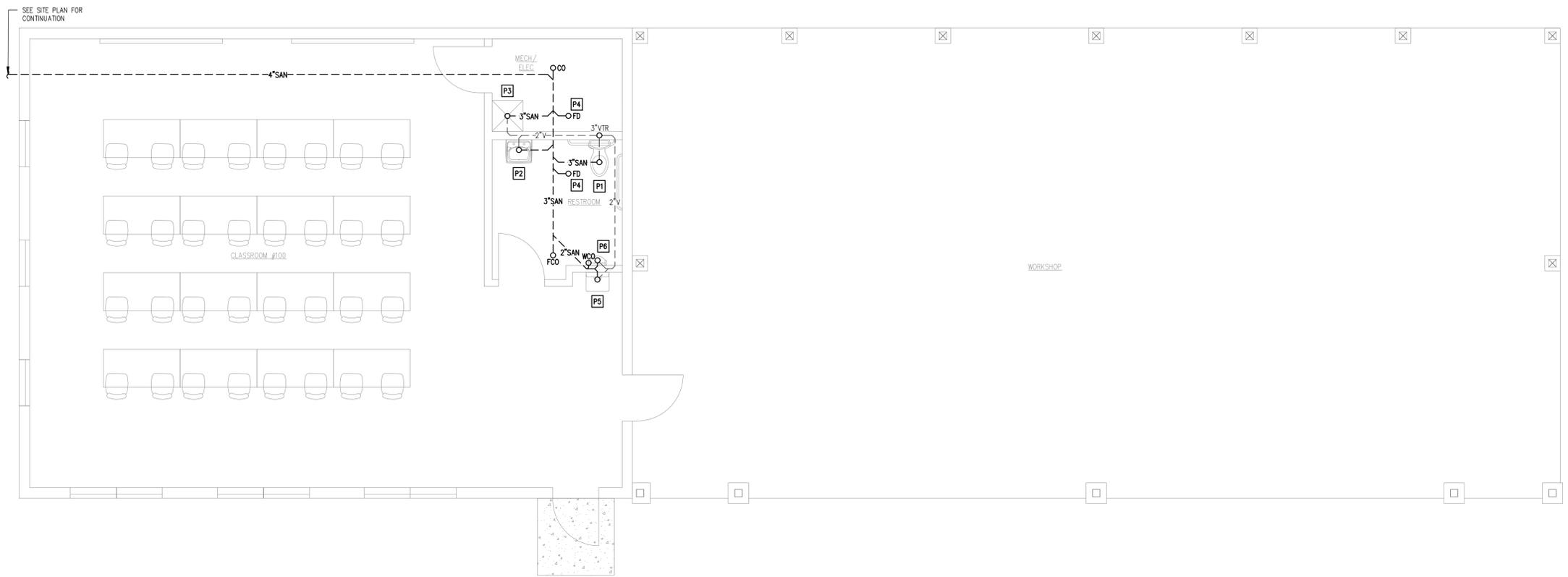
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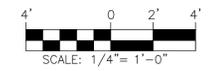
UNIVERSITY OF MAINE
DEMERRIT FOREST SAWMILL
OLD TOWN, MAINE
SANITARY AND VENTING PLAN

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P1



SANITARY AND VENTING PLAN
SCALE: 1/4" = 1'-0"



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PLUMBING LEGEND

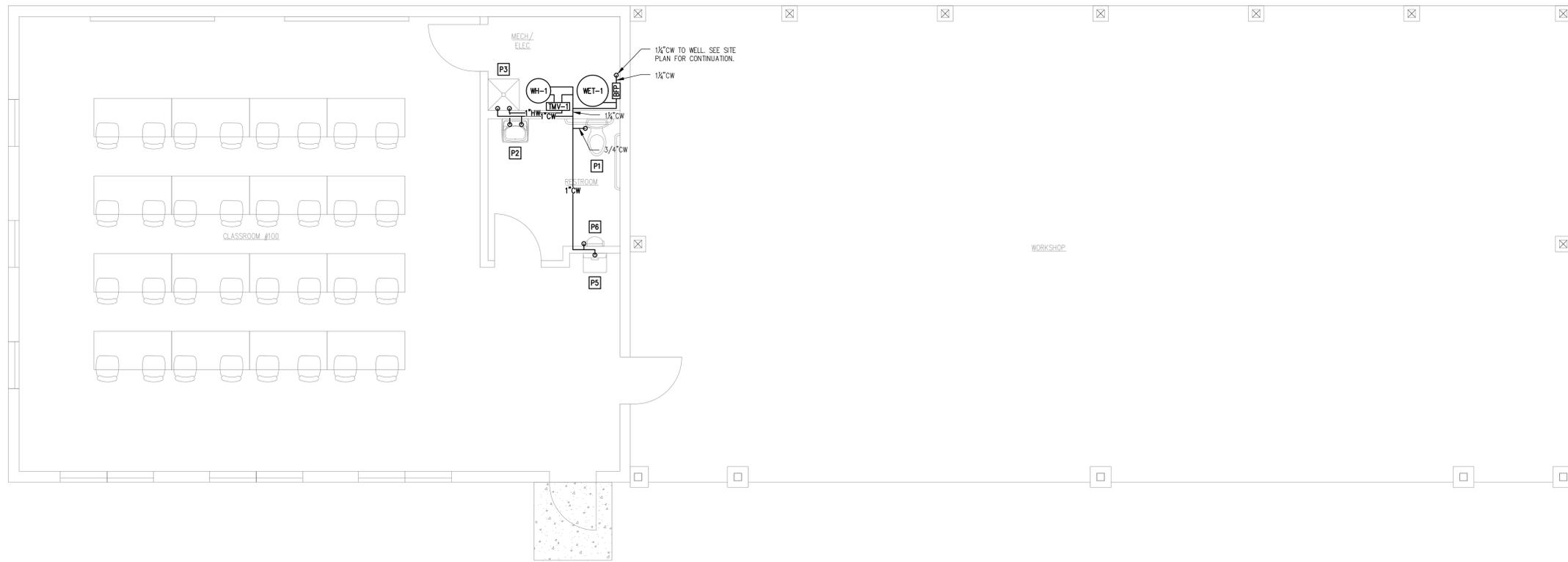
- CW — COLD WATER PIPING
- CW --- COLD WATER PIPING BELOW SLAB
- CW-E — EXISTING COLD WATER PIPING
- CW-E --- EXISTING COLD WATER PIPING BELOW SLAB
- HWS — HOT WATER SUPPLY PIPING
- HWS --- HOT WATER SUPPLY PIPING BELOW SLAB
- HWS-E — EXISTING HOT WATER PIPING
- HWS-E --- EXISTING HOT WATER PIPING BELOW SLAB
- HWR — HOT WATER RETURN PIPING
- HWR --- HOT WATER RETURN PIPING BELOW SLAB
- HWR-E — EXISTING HOT WATER RETURN PIPING
- HWR-E --- EXISTING HOT WATER RETURN PIPING BELOW SLAB
- SAN-E — EXISTING SANITARY PIPING
- SAN — BELOW SLAB SANITARY PIPING
- V --- VENT PIPING
- CD — CONDENSATE DRAIN PIPING
- RD — ROOF DRAIN PIPING
- BV — BALL VALVE
- GV — GATE VALVE
- CV — CHECK VALVE (LIFT TYPE)
- UC — UNION CONNECTION

- PIPING RISE/CONNECTION POINT
- THERMOMETER
- RV — RELIEF VALVE
- A — AQUASTAT
- RD — ROOF DRAIN
- CO — CLEAN OUT
- WCO — WALL CLEAN OUT
- FCO — FLOOR CLEAN OUT
- FD — FLOOR DRAIN
- VBS — VENT PIPING BELOW SLAB
- VTA — VENT TO ATTIC
- VTR — VENT THRU ROOF
- AFF — ABOVE FINISHED FLOOR
- BFF — BELOW FINISHED FLOOR
- VTC — NEW VENT TO ABOVE SUSPENDED CEILING
- CE — CONNECT TO EXISTING
- HFB — HOSE BIBB FIXTURE (FROST PROOF)
- PG — PRESSURE GAUGE
- PS — PRESSURE SWITCH

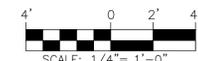
- DRAIN
- STRAINER
- CP — CIRCULATOR PUMP
- DIRECTION OF FLOW
- AV — AIR VENT
- CS — CONCRETE SLOPE DIRECTION
- BFP — BACK FLOW PREVENTER

PLUMBING NOTES:

1. WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2021 UNIFORM PLUMBING CODE, AND THESE CONTRACT DOCUMENTS.
2. COORDINATE LOCATION OF PLUMBING WITH ALL OTHER TRADES. REFER TO FLOOR PLANS, MECHANICAL AND ELECTRICAL PLANS FOR COORDINATION.
3. ALL PIPING SHALL BE RUN CONCEALED WHERE POSSIBLE.
4. ALL PIPING IS SHOWN DIAGRAMMATICALLY. ACTUAL LOCATIONS AND LAYOUT SHALL BE DETERMINED IN THE FIELD AND UPDATED ON PLANS FOR FINAL AS BUILT.
5. NO STRUCTURAL MEMBER SHALL BE CUT OR ALTERED WITHOUT WRITTEN APPROVAL OF ENGINEER.
6. ALL PLUMBING SHALL BE SUPPORTED FROM THE BUILDING'S STRUCTURAL FRAMING.
7. ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES, AND PITCHED TO LOW POINTS.
8. ALL PIPING THROUGH ROOFS, WALLS AND PARTITIONS SHALL HAVE PIPE SLEEVES. ALL PIPING PENETRATING FIRE RATED WALLS, FIRE RATED PARTITIONS, OR FLOORS SHALL BE PROTECTED WITH A LISTED FIRE STOPPING SYSTEM PER NFPA 101, "CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES", LATEST EDITION.
9. ALL PIPING, BURIED OR OTHERWISE, SHALL BE INSULATED.
10. PROVIDE SHOCK ABSORBERS SIZED TO P.D.I. STANDARDS WHERE REQUIRED TO AVOID WATER HAMMER. PROVIDE SHOCK ABSORBERS UPSTREAM FROM ALL WATER CLOSES AND AT ALL QUICK ACTING DEVICES.
11. PROVIDE DRAW-OFFS AT LOW POINTS IN DOMESTIC WATER PIPING. PITCH PIPING TO DRAINS.
12. PROVIDE ACCESSIBLE CLEANOUTS WHERE INDICATED OR WHERE REQUIRED BY CODE.
13. ALL FIXTURES SHALL HAVE FLOW RESTRICTORS AND BE WATER SAVING TYPES. ALL FLUSH HANDLES TO BE LOCATED ON OPEN SIDE OF LAVATORIES.
14. ALL PIPING DROPS TO FIXTURES SHALL BE ANCHORED SOLID TO WALL WITH STEEL SUPPORT BRACKETS AND ADJUSTABLE CLIPS.
15. BELOW SLAB SANITARY WASTE PIPING SHALL BE MINIMUM 2" SIZE OR IN ACCORDANCE WITH PLANS.
16. ALL WALL FIXTURES SHALL BE CARRIER MOUNTED. COORDINATE CARRIER DIMENSIONS, CONFIGURATION (COMPACT, VERTICAL AND HORIZONTAL) WITH CHASES AND STRUCTURAL MEMBERS.
17. ALL VENT PIPING IS NOT SHOWN ON THE PLANS. VENT PER PLUMBING CODE REQUIREMENTS. ALL FIXTURES SHALL BE BACK VENTED. COORDINATE VENT PIPING ROOF PENETRATIONS WITH OWNER AND ARCHITECT.
18. TOP OF FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR.
19. RUBBER INSULATORS REQUIRED AT ANY AND ALL PLUMBING/MECHANICAL/ELECTRICAL UNITS WHICH ATTACH TO STRUCTURAL MEMBERS.
20. CONTRACTOR WILL PERFORM A COMPLETE FLUSH AFTER ALL CONSTRUCTION IS COMPLETE.
21. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS WHERE REQUIRED. COORDINATE ACCESS PANEL LOCATIONS WITH DRAIN VALVES, MIXING VALVES, PIPING CONNECTIONS, AND TO ACCOMMODATE CONNECTIONS. ACCESS PANELS MUST BE INSTALLED AT PIPING AND ASSOCIATED VALVES THAT WILL NEED TO BE ACCESSED FOR MAINTENANCE/SERVICE. THE ACCESS PANELS NEED TO BE 12"x12" MINIMUM, AND SHALL BE FIRE RATED WHERE REQUIRED.
22. CONTRACTOR SHALL PROVIDE, INSTALL, TEST AND VERIFY ALL DOMESTIC HOT WATER TEMPERATURES. ALL ROOMS, EXCEPT CUSTODIAL ROOMS, SHALL BE NO GREATER THAN 109°F. TEST AND VERIFY ALL MIXING VALVES. ALL LAVATORIES AND SINKS SHALL HAVE MIXING VALVES AT POINT OF USE. ADJUST HOT WATER TEMPERATURE AT ALL FIXTURES. COORDINATE WITH OWNER FOR REQUIRED TEMPERATURES.
23. PROVIDE VALVES AT ALL BRANCH LOCATIONS AND ALL PLUMBING FIXTURES.
24. CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED PIPING, DRAINS, VENTS, ETC. FOR ALL PLUMBING FIXTURES. COORDINATE WITH ALL OTHER TRADES AND OWNER.
25. CONTRACTOR SHALL PROVIDE ALL PIPING AS REQUIRED FOR COMPLETE INSTALLATION OF ALL SYSTEMS. NOT ALL TEES, BRANCHES, VALVES, RISERS, ETC. MAY BE SHOWN. CONTRACTOR SHALL VERIFY PIPING IS CONNECTED TO ALL FIXTURES, EQUIPMENT, HEAT EXCHANGERS, TANKS, ETC.
26. CONTRACTOR SHALL INSTALL PIPING ABOVE SUSPENDED CEILING WHERE REQUIRED. IN AREAS WHICH CONTAIN HARD CEILINGS, CONTRACTOR SHALL INSTALL PIPING IN NEARBY WALLS WHERE APPLICABLE.
27. CONTRACTOR SHALL COORDINATE ALL PIPING REQUIREMENTS AND PATHWAYS WITH OWNER AND ENGINEER. ADJUST QUANTITY, SIZE, AND ROUTE AS REQUIRED.
28. CONTRACTOR SHALL COMBINE VENTS FOR PLUMBING FIXTURES WITHIN WALLS OR ABOVE CEILINGS. VENTS SHALL RISE TO ATTIC TO COMBINE PRIOR TO VENTING THRU THE ROOF.
29. CONTRACTOR SHALL ENSURE ALL FLOOR DRAINS HAVE TRAP PRIMER CONNECTIONS AND CW PIPING INSTALLED.



DOMESTIC PLUMBING PLAN
 SCALE: 1/4" = 1'-0"



FOR BID
 01-23-2026



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NO.	DATE	DESCRIPTION



UNIVERSITY OF MAINE
DEMERITT FOREST SAWMILL
 OLD TOWN, MAINE
DOMESTIC PLUMBING PLAN

Drawn: JE
 Checked: RB
 Scale: AS NOTED
 Date: 05-14-2024
 Project No: 2023085
 Sheet Number:

P2

PLUMBING FIXTURE & CONNECTION SCHEDULE						
SYMBOL	FIXTURE	DESCRIPTION	WASTE	VENT	CW	HW
E1	WATER CLOSET	AMERICAN STANDARD CADET CHAIR HEIGHT ADA TOILET #2467.016, WHITE WITH ELONGATED BOWL, WITH #5257A.65C SEAT	3"	2"	3/4"	--
E2	LAVATORY	AMERICAN STANDARD DECORUM WALL HUNG LAVATORY #9024.011EC WITH TRAP, NIPPLES, DRAIN, GRID STRAINER, AMERICAN STANDARD NEXTGEN SELECTION TOUCHLESS FAUCET #7755.305	1 1/2"	1 1/2"	1/2"	1/2"
E3	MOP BASIN	FIAT #MSRID2424 MOLDED STONE WITH #R30-AA SERVICE FAUCET, #R32-AA HOSE AND HOSE BRACKET, #R89-CC MOP BRACKET, #MSG-2424 STAINLESS STEEL WALL GUARDS, STAINLESS STEEL STRAINER AND #E-88-AA STAINLESS STEEL BUMPER GUARDS	3"	2"	3/4"	3/4"
E4	FLOOR DRAIN	ZURN #ZV-2415B-P WITH TRAP PRIMER CONNECTION. SIZE ACCORDING TO PIPE AND LOCATION.	3"	1 1/2"	1/2"	--
E5	DRINKING FOUNTAIN	ELKAY EZH2O BOTTLE FILLING STATION MODEL #Z08WSLK	1 1/2"	1 1/2"	1/2"	--
E6	URINAL	AMERICAN STANDARD GREENBROOK URINAL #6516002EC	2"	2"	3/4"	--

- NOTES:
 1. ALL FIXTURES SHALL HAVE VALVE STOPS ON COLD WATER AND HOT WATER SUPPLIES.
 2. FIXTURE SUPPLIES, STOPS, TRAPS, & DRAIN PIPING SHALL BE CHROME PLATED.
 3. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED ACCESSORIES, WALL CARRIERS, DRAW ASSEMBLIES, ETC. FOR ALL PLUMBING FIXTURES.

WATER HEATER SCHEDULE												BASIS OF DESIGN: A.O. SMITH	
TAG	STORAGE (GAL)	RECOVERY @ 100°F RISE (GPH)	FIRST HOUR RATING (GPH)	DIA. (IN)	HW/CW CONN (IN)	MODEL	HEATER ELEMENT (KW)	ELECTRICAL (V/PH/Hz)	FLA	MCA	MOCP	NOTES	
WH-1	10	12	20	18.75"	3/4"	DSE-10-3	3	240/1/60	12.5	15.6	20	1, 2	

- NOTES:
 1. SET TANK TEMPERATURE TO 140°F (ADJ.).
 2. PROVIDE AND INSTALL DRAIN PAN. PROVIDE DRAIN PAN OUTLET TO FLOOR DRAIN.

EXPANSION TANK SCHEDULE							BASIS OF DESIGN: AMTROL	
TAG	SERVES	MODEL	CONNECTION (IN.)	VOLUME (GAL)	TANK	ACCEPT	NOTES	
ET-1	WH-1	ST-5C-DD	3/4"	2	0.9		1	
WET-1	WELL PUMP	WX-401C	1 1/2"	18	11		1	

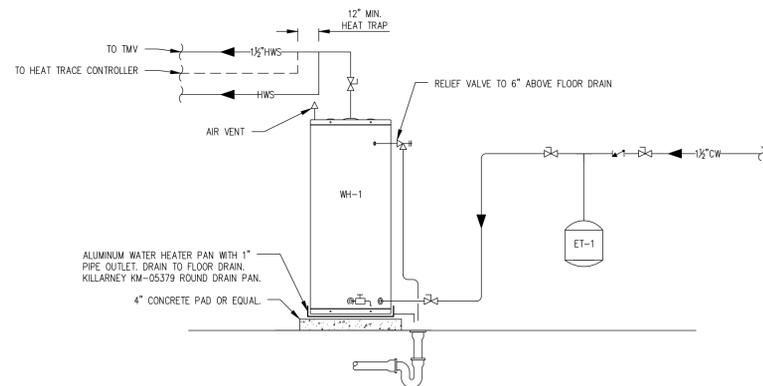
- NOTES:
 1. ASME RATED.

THERMOSTATIC MIXING VALVE SCHEDULE						BASIS OF DESIGN: CALEFFI	
TAG	SERVES	MODEL	MIN. FLOW (GPM)	MAX. FLOW (GPM)	NOTES		
TMV-1	BUILDING HW	ANGLEMIX 520610AC	1	9	1		

- NOTES:
 1. SET MIXING VALVE TO 130°F.

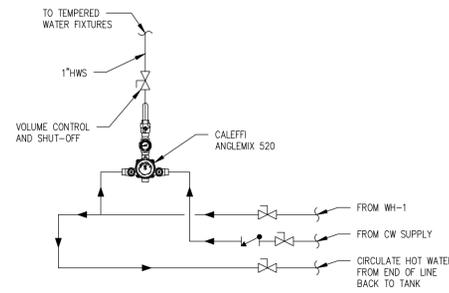
HEAT TRACE SCHEDULE								BASIS OF DESIGN: RAYCHEM	
TAG	MODEL	SERVES	VOLTS	AMPS	APPROXIMATE LENGTH OF CIRCUIT (FT.)	CONTROLLER	NOTES		
HT-1	HWAT-R2	WH-1	240	15	25	HWAT-ECO-GF	1, 2		

- NOTES:
 1. HT-1 SERVES WH-1. SET TEMP TO 130°F (ADJ.).
 2. PROVIDE AND INSTALL ALL REQUIRED ACCESSORIES, CONNECTION KITS, AND CONTROLLERS AS REQUIRED.



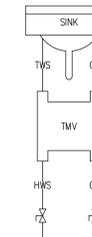
WATER HEATER PIPING SCHEMATIC
NOT TO SCALE

- NOTE:
 SET TANK TEMPERATURE TO 140°F. (ADJ.)



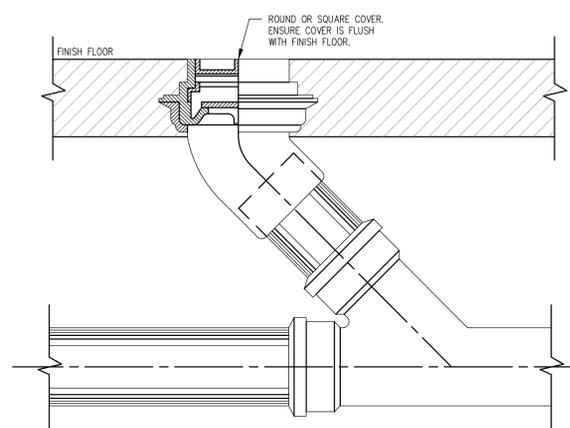
THERMOSTATIC MIXING VALVE DIAGRAM
NOT TO SCALE

- NOTES:
 1. INSTALL ACCORDING TO MANUFACTURER'S REQUIREMENTS.
 NOT ALL VALVES, PIPING, OR DEVICES MAY BE SHOWN.
 2. SET THERMOSTATIC MIXING VALVE TO 130°F. (ADJ.)

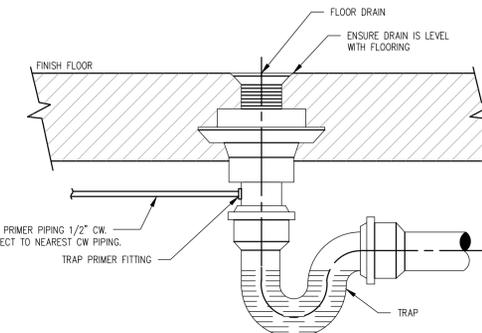


SINK/LAVATORY MIXING VALVE PIPING DIAGRAM
NOT TO SCALE

- NOTES:
 1. CONTRACTOR SHALL INSTALL ASSE 1070 MIXING VALVE AT ALL LAVATORIES AND SINKS PER CODE. MIXING VALVE EQUAL TO CALEFFI 5212 SINK MIXER.
 2. SET SINK MIXING VALVE TO 109°F. FIELD ADJUST DEPENDING ON SERVICE. COORDINATE WITH OWNER.

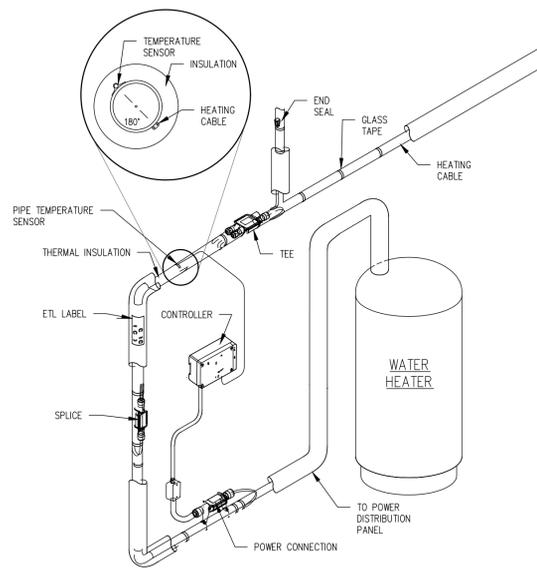


FLOOR CLEANOUT DETAIL
NOT TO SCALE



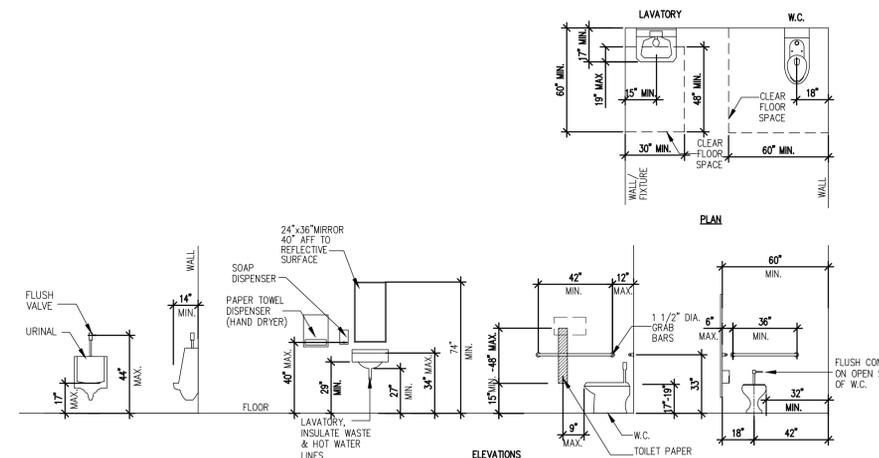
FLOOR DRAIN INSTALLATION DETAIL
NOT TO SCALE

- NOTES:
 ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS.



DOMESTIC HOT WATER ELECTRIC HEAT TRACE DETAIL
NOT TO SCALE

- NOTES:
 1. PIPE INSULATION REMOVED FOR CLARITY. ALL PIPES MUST BE FULLY INSULATED.
 2. HEAT TRACE MUST BE INSTALLED ALONG MAIN PIPING AND BRANCHES TO WITHIN 2' ± OF DISCHARGE.



TYPICAL ADA BARRIER FREE BATHROOM GUIDELINES DETAIL
NOT TO SCALE

- NOTE:
 PROVIDE BLOCKING AS REQUIRED FOR MOUNTING FIXTURES, GRAB BARS, AND ALL ACCESSORIES.



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 OLD TOWN, MAINE
PLUMBING SCHEDULES AND DETAILS

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P3



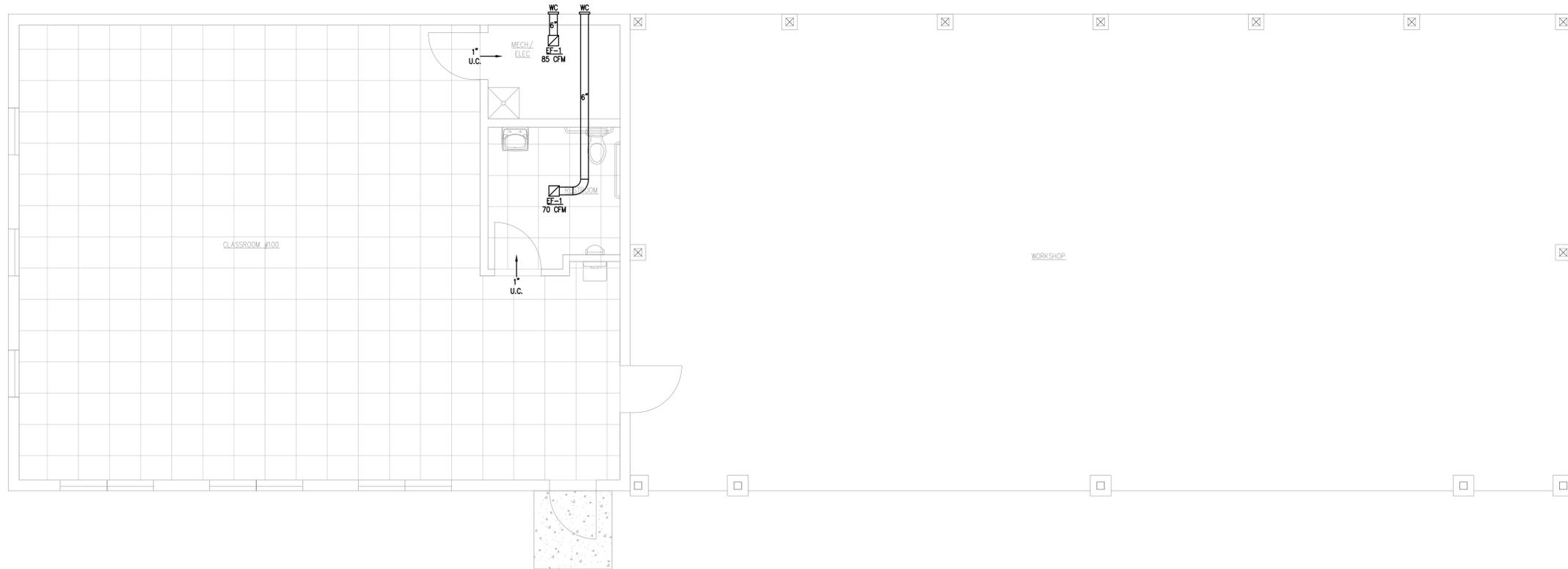
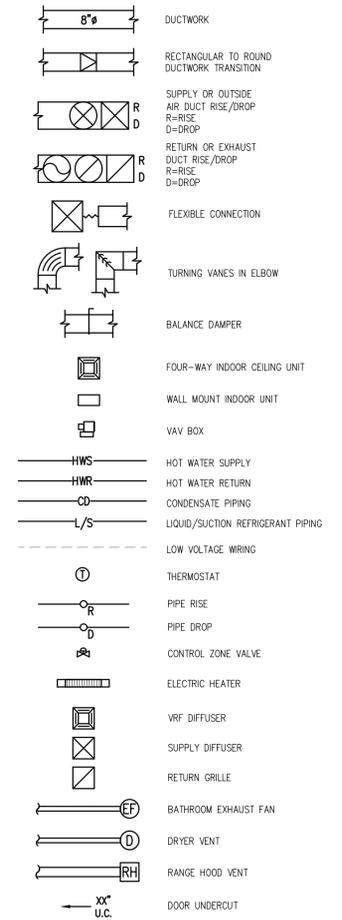
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MECHANICAL NOTES:

1. ALL SPACE THERMOSTATS SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR (AFF).
2. PIPING SHALL BE RUN AS DIRECT AS POSSIBLE, PARALLEL TO & FORMING RIGHT ANGLES TO THE LINES OF THE BUILDING, SUPPORTED FROM THE STRUCTURE, FREE FROM POCKETS & SAGS & PITCHED TO LOW POINT DRAINS.
3. LOCATE ALL VALVES FOR EASY ACCESS & OPERATION. DO NOT LOCATE VALVES W/STEMS BELOW HORIZONTAL. PROVIDE ACCESS PANELS WHERE REQUIRED.
4. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WEATHERTIGHT.
5. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
6. DUCTWORK SHALL BE COORDINATED TO PREVENT ANY INTERFERENCES W/PLUMBING, PIPING, ELECTRICAL, STRUCTURAL, FIRE PROTECTION, ARCHITECTURAL AND OTHER WORK. FIELD VERIFY EXACT PATHWAY, ADJUST DUCTWORK AS REQUIRED.
7. WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL AND STATE CODES AND REGULATIONS.
8. ALL DUCT SIZES INDICATED ARE OUTSIDE (SHEET METAL) DIMENSIONS, WITH THE EXCEPTION OF ACOUSTICALLY LINED DUCT WHICH IS INSIDE ACOUSTICAL LINER.
9. ALL CUTTING AND PATCHING SHALL BE PROVIDED BY GENERAL CONTRACTOR.
10. ALL DUCTWORK AND PIPING SHALL BE INSULATED.
11. ALL PIPING SHALL BE RUN CONCEALED AND ON WARM SIDE OF BUILDING INSULATION WHEREVER POSSIBLE UNLESS NOTED OTHERWISE.
12. PIPING IS SHOWN DIAGRAMMATICALLY. EXACT LOCATION TO BE ADJUSTED AS REQUIRED TO SUIT FIELD CONDITIONS.
13. ALL DIMENSIONS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD.
14. PROVIDE AUTOMATIC AIR VENTS AT ALL LOCATIONS WHERE WATER PIPING DROPS IN THE DIRECTION OF FLOW, AT ALL HIGH POINTS AND ELSEWHERE AS INDICATED ON DRAWINGS.
15. PROVIDE DRAINS AT ALL LOW POINTS IN THE WATER PIPING SYSTEM.
16. COPPER PIPING SHALL BE TYPE 'L' OR 'K'. TYPE 'M' SHALL NOT BE USED FOR THIS PROJECT.
17. STRUCTURAL MEMBERS SHALL NOT BE CUT, NOTCHED, OR BORED WITHOUT APPROVAL FROM ENGINEER.
18. PIPE SIZING BASED ON TYPE 'L' COPPER. VERIFY SIZING WITH ENGINEER IF ALTERNATE PIPING IS INSTALLED.

MECHANICAL LEGEND

ABBREVIATIONS/SYMBOLS:
CFM CUBIC FEET PER MINUTE
FC FAN COIL
Ø DIAMETER
EG EXHAUST GRILLE
RG RETURN GRILLE
SD SUPPLY DUCT
SG SUPPLY GRILLE



MECHANICAL DUCTWORK PLAN
SCALE: 1/4" = 1'-0"



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MECHANICAL DUCTWORK PLAN

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M1



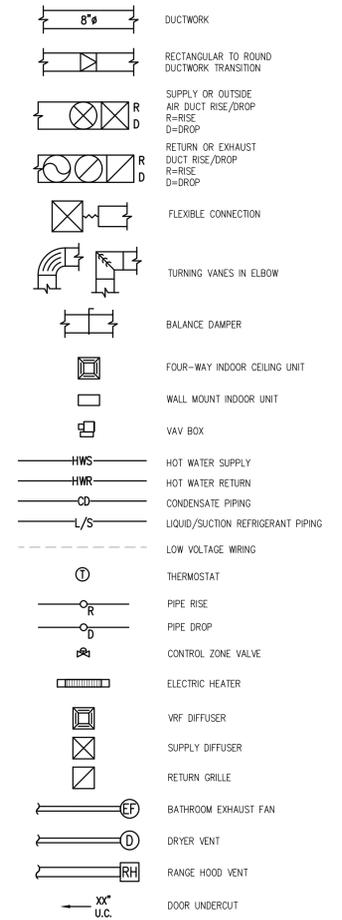
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- WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL AND STATE CODES AND REGULATIONS.
- ALL DUCT SIZES INDICATED ARE OUTSIDE (SHEET METAL) DIMENSIONS, WITH THE EXCEPTION OF ACOUSTICALLY LINED DUCT WHICH IS INSIDE ACOUSTICAL LINER.
- ALL CUTTING AND PATCHING SHALL BE PROVIDED BY GENERAL CONTRACTOR.
- ALL DUCTWORK AND PIPING SHALL BE INSULATED.
- ALL PIPING SHALL BE RUN CONCEALED AND ON WARM SIDE OF BUILDING INSULATION WHEREVER POSSIBLE UNLESS NOTED OTHERWISE.
- PIPING IS SHOWN DIAGRAMMATICALLY. EXACT LOCATION TO BE ADJUSTED AS REQUIRED TO SUIT FIELD CONDITIONS.
- ALL DIMENSIONS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD.
- PROVIDE AUTOMATIC AIR VENTS AT ALL LOCATIONS WHERE WATER PIPING DROPS IN THE DIRECTION OF FLOW, AT ALL HIGH POINTS AND ELSEWHERE AS INDICATED ON DRAWINGS.
- PROVIDE DRAINS AT ALL LOW POINTS IN THE WATER PIPING SYSTEM.
- COPPER PIPING SHALL BE TYPE "L" OR "K". TYPE "M" SHALL NOT BE USED FOR THIS PROJECT.
- STRUCTURAL MEMBERS SHALL NOT BE CUT, NOTCHED, OR BORED WITHOUT APPROVAL FROM ENGINEER.
- PIPE SIZING BASED ON TYPE "L" COPPER. VERIFY SIZING WITH ENGINEER IF ALTERNATE PIPING IS INSTALLED.

MECHANICAL LEGEND

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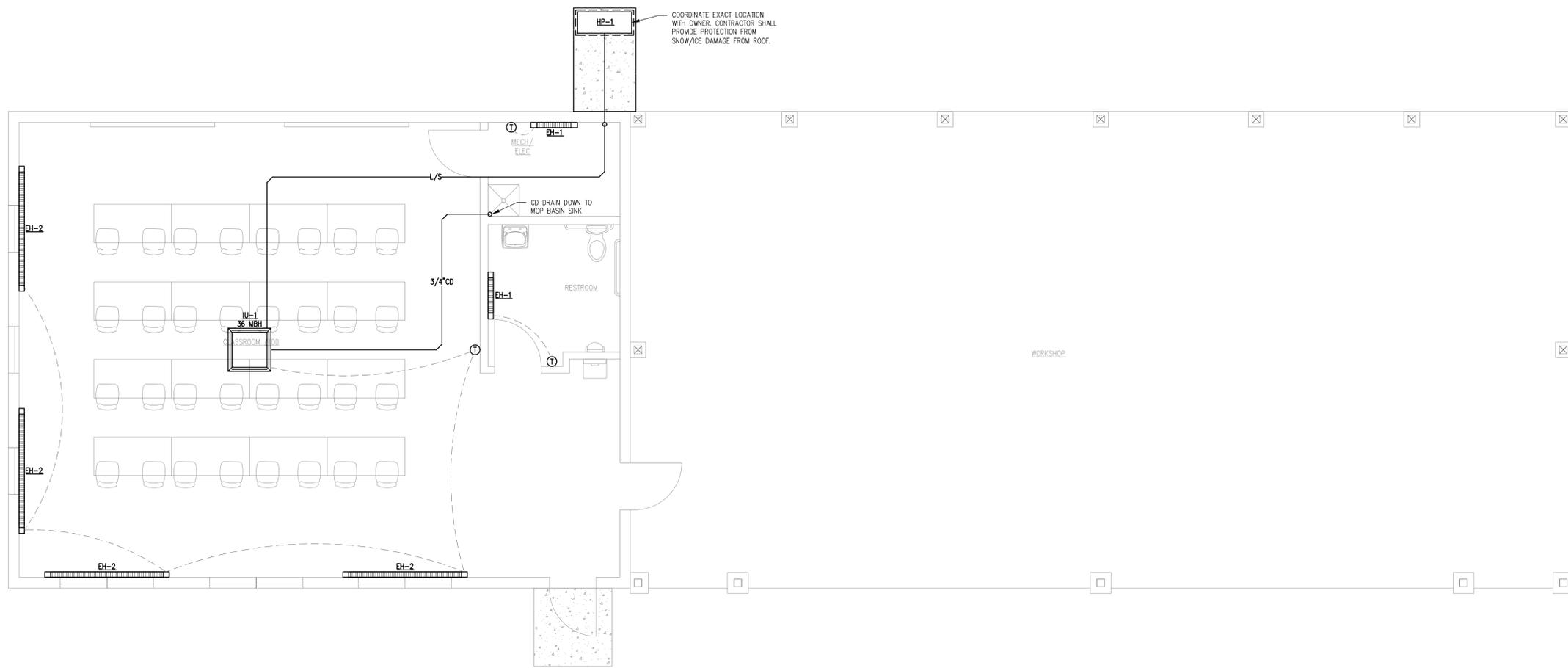
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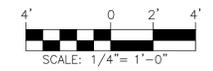
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MECHANICAL PIPING AND HEATING PLAN

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M2



MECHANICAL PIPING AND HEATING PLAN
SCALE: 1/4" = 1'-0"

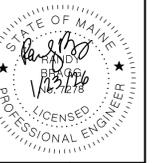


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UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
MECHANICAL DETAILS AND SCHEDULES

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M3

FOR BID
01-23-2026

EXHAUST FAN PERFORMANCE SCHEDULE							BASIS OF DESIGN: GREENHECK	
TAG	AIRFLOW (CFM)	S. P. (IN. WG)	MOTOR (WATTS)	SOUND (SONES)	ELECTRICAL (V/PH/Hz)	MODEL	NOTES	
EF-1	90	0.5	24	2	120/1/60	SP-A50-90-VG	1, 2, 3, 4	

- NOTES:
1. PROVIDE AND INSTALL CEILING RADIATION DAMPER.
2. PROVIDE AND INSTALL 2-SPEED MOTOR CONTROL. SET MAX SPEED TO 120 CFM DURING OCCUPIED HOURS, SET TO 50% SPEED DURING UNOCCUPIED HOURS.
3. PROVIDE AND INSTALL HOODED WALL CAP WITH BACKDRAFT DAMPER AND BIRDSCREEN.
4. PROVIDE AND INSTALL ALUMINUM, WHITE ENAMEL GRILLE.

ELECTRIC HEATER SCHEDULE											BASIS OF DESIGN: Q-MARK	
TAG	QUANTITY	MODEL	LENGTH (INCHES)	WATTS	BTU/HR	VOLTS	FLA	MCA	MOCOP	KVA	NOTES	
EH-1	2	QMKC2543W	36	750	2,560	240	3.1	3.9	20	0.94	1, 2, 3	
EH-2	4	QMKC25408W	96	2,500	8,530	240	10.4	13	20	3.1	1, 2, 3	

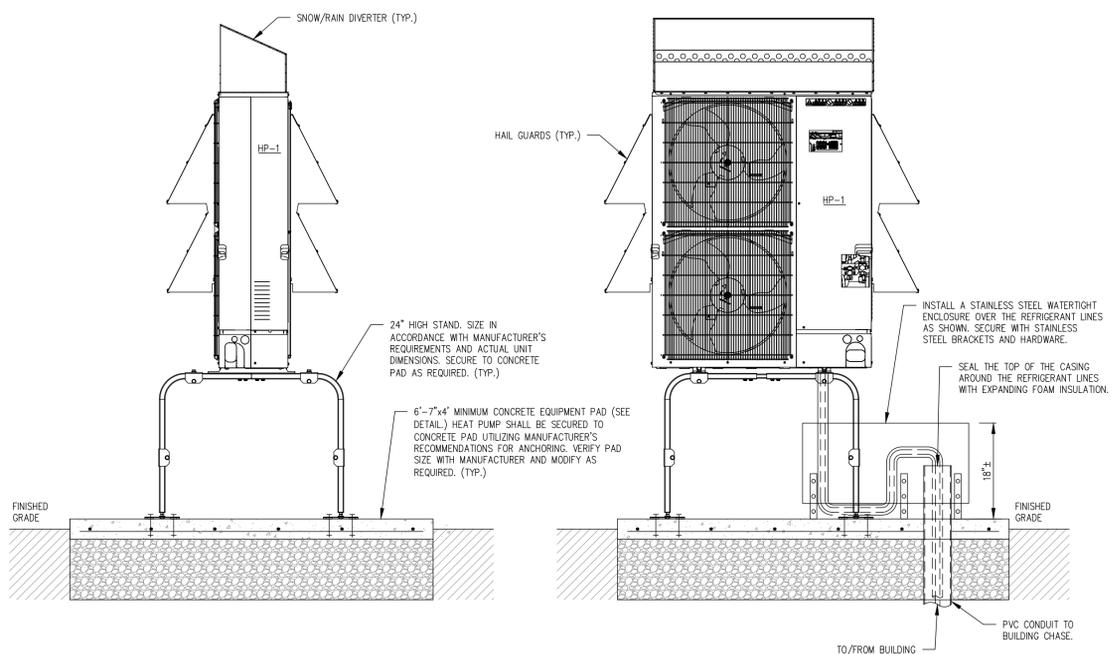
- NOTES:
1. COORDINATE CONTROL WITH HP-1 THERMOSTATS. COMBINE INTO SINGLE THERMOSTAT AS AVAILABLE. EH SHALL BE SECONDARY STAGE OF HEAT.
2. COLOR SHALL BE WHITE.
3. PROVIDE AND INSTALL 24V THERMOSTAT, RELAY, AND TRANSFORMER AS REQUIRED.

HEAT PUMP/CONDENSING UNIT OUTDOOR UNIT SCHEDULE												BASIS OF DESIGN: TRANE	
TAG REFERENCE	MODEL	EFFICIENCY			CAPACITY (MBH)		ELECTRICAL				NOTES		
		SEER	EER	HSPF	COOL	HEAT	VOLT/PH	MCA	MOCOP	RBS			
HP-1	TRU140361KA70NA	22	12.9	---	36	38	230V/1PH	25	41	30	1, 2, 3, 4, 5, 6, 7, 8, 9, 10		

- NOTES:
1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).
3. EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS.
4. CONTRACTOR SHALL ADD FIELD CHARGE IN ADDITION TO FACTORY CHARGE IF REQUIRED, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
5. FACTORY REPRESENTATIVES SHALL REVIEW THE PROJECT PRIOR TO AND THROUGHOUT THE INSTALLATION OF CITY MULTI EQUIPMENT.
6. FACTORY REPRESENTATIVES SHALL STARTUP AND COMMISSION CITY MULTI EQUIPMENT UPON COMPLETION OF EQUIPMENT INSTALLATIONS.
7. FACTORY REPRESENTATIVES SHALL PROVIDE ON-SITE ASSISTANCE AS REQUIRED.
8. FACTORY REPRESENTATIVES SHALL PROVIDE END-USER TRAINING UPON COMPLETION OF THE PROJECT.
9. PROVIDE SNOW/HAIL KIT TO PREVENT DAMAGE OR SNOW BUILD-UP IN SEVERE WINTER CLIMATES.
10. PROVIDE 24" SUPER STAND KIT OR EQUAL.

HEAT PUMP INDOOR UNIT SCHEDULE									BASIS OF DESIGN: TRANE	
TAG REFERENCE	LOCATION	MODEL	CFM	CAPACITY (MBH)		ELECTRICAL			NOTES	
				HEAT	COOL	VOLT/PH	MCA	MOP		
IU-1	CLASSROOM	TPLA040361EAB0A	---	38	36	---	---	---	---	

- NOTES:
1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).
3. SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES.
4. SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES. COORDINATE WITH MANUFACTURER.
5. PROVIDE RELAY KIT FOR EXTERNAL HEATER ADAPTER THAT CONNECTS TO CN24 ON INDOOR CONTROL BOARD.
6. PROVIDE AND INSTALL DELUXE MA THERMOSTAT.
7. PROVIDE AND INSTALL CONDENSATE PUMP AS REQUIRED TO ALLOW CONDENSATE TO DRAIN TO MOP BASIN SINK AS INDICATED. PROVIDE POWER CIRCUIT AS REQUIRED.



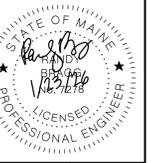
HEAT PUMP OUTDOOR UNIT DETAIL
NOT TO SCALE

NOTE:
DETAIL MAY VARY, DEPENDING ON PROJECT. MODIFY AS REQUIRED. ENSURE REFRIGERANT PIPING IS INSTALLED AND PROTECTED FROM DAMAGE FROM HP-1 TO BUILDING.



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OLD TOWN, MAINE
ELECTRICAL POWER PLAN

Drawn: JE
Checked: RB
Scale: AS NOTED
Date: 05-14-2024
Project No:
2023085
Sheet Number:

E1

ELECTRICAL DATA NOTES:

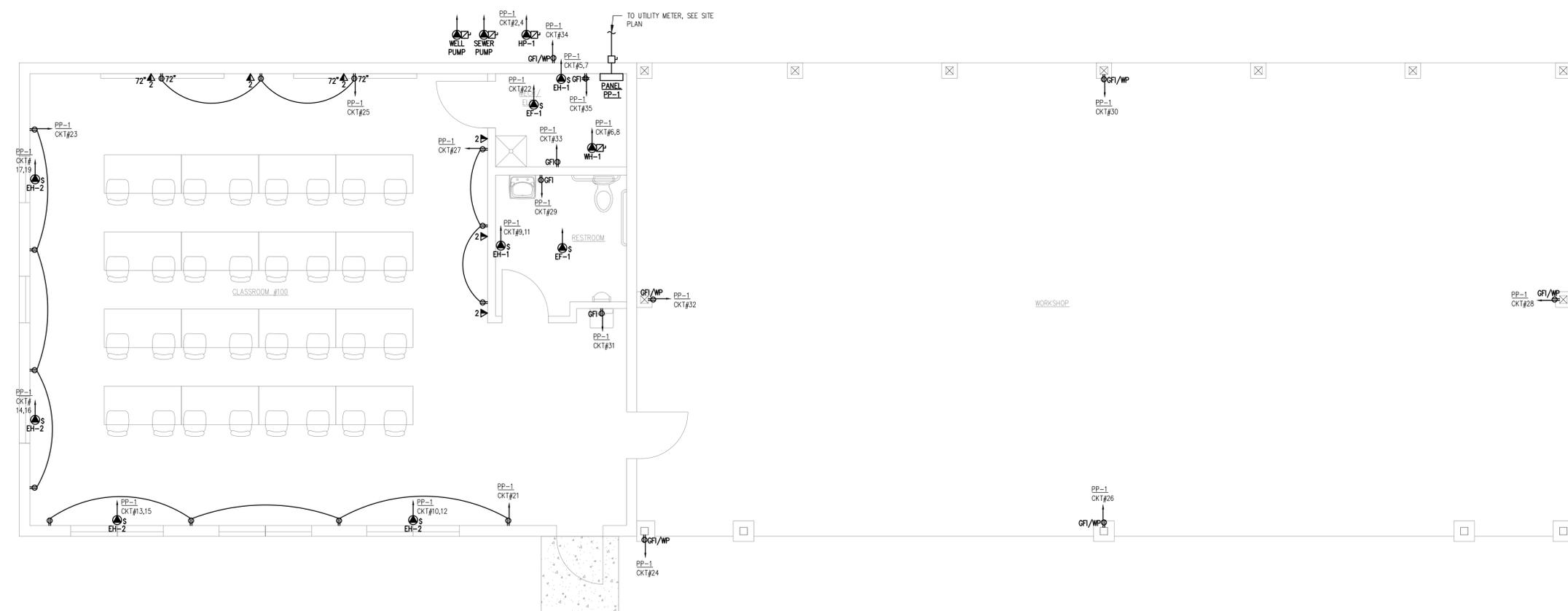
- CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT MATERIALS, ETC. TO COMPLETE THE INTENT OF THE PROPOSED DATA, PHONE, CABLE SYSTEMS, INCLUDING COORDINATION WITH OWNER SERVICE PROVIDERS.
- CONTRACTOR SHALL PROVIDE CABLE MANAGEMENT SYSTEM FOR SERVICES (DATA, PHONE, CABLE) WHERE REQUIRED.
- CONTRACTOR SHALL PROVIDE RECEPTACLES FOR ALL SERVICES AS REQUIRED.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, DATA JACKS, FACE PLATES AND CABLING. CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING AS REQUIRED. CONTRACTOR SHALL COORDINATE LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
- ENSURE 5 FEET OF SLACK CABLE EXISTS AT EACH JACK LOCATION AND EXTRA 15 FEET SLACK CABLING AT ALL HUBS/SERVERS/SWITCHES. CONTRACTOR TO LABEL ALL CABLING AT JACK AND IT ROOM TERMINATIONS. CONTRACTOR IS RESPONSIBLE FOR REWORK OF MIS-LABELED CABLING.
- CONTRACTOR SHALL PROVIDE ALL POWER CONNECTIONS FOR THE DATA/COMMUNICATIONS SYSTEM. COORDINATE LOCATION AND REQUIREMENTS WITH THE ENGINEER AND OWNER PRIOR TO INSTALLATION.
- ALL CABLES SHALL BE RUN NEATLY, PROPERLY BOUND, SEPARATE BOUND COLOR CODE AND IN AN ORTHOGONAL MANNER. NO DIAGONAL RUNS WILL BE ALLOWED.
- PROVIDE CAT6 WIRE FOR ACCESS CONTROL TO CONTROL PANEL IN DATA ROOM. WIRE SHOULD BE 48" A.F.F. ACCESS CONTROL DEVICE BY OWNER. COORDINATE WITH OWNER.

ELECTRICAL POWER NOTES:

- CONTRACTOR SHALL COORDINATE ACCESS TO ALL CRITICAL AREAS, INCLUDING VALVES, DAMPERS, CONTROL CIRCUITS, SECURITY CAMERAS, SPEAKERS, SPRINKLERS, ETC. SUSPENDED CEILING TILES SHALL BE CONSIDERED ACCESS.
- THE CONTRACTOR SHALL INSTALL ALL CABLING IN SUCH A MANNER AND WITH ENOUGH SLACK AS TO ALLOW FOR TEMPORARY MOVEMENT DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE TEMPORARY MOVEMENT WITH THE TRADES IN QUESTION TO PROVIDE PROPER PROTECTION AND SUPPORT.
- WALLS SHOWN ON DRAWING MAY NOT BE REPRESENTATIVE OF ACTUAL WALL TYPES AND CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL FLOOR, WALL, AND CEILING TYPES FOR SUPPORT AND PENETRATIONS INFORMATION.
- PROVIDE PULL BOXES, JUNCTION BOXES, ETC., AS NEEDED, MEETING THE NEC.
- CONTRACTOR TO INSTALL ALL WIRING, CONDUITS, ETC. FROM ALL RECEPTACLE LOCATIONS TO ELECTRICAL ROOM.
- RUBBER INSULATORS REQUIRED AT ANY AND ALL ELECTRICAL/MECHANICAL/PLUMBING UNITS WHICH ATTACH TO ANY STRUCTURAL MEMBERS.
- ALL RECEPTACLES SHALL BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED. ALL SWITCHES SHALL BE MOUNTED AT 48" A.F.F. UNLESS OTHERWISE NOTED.
- ENSURE ALL ELECTRICAL DISCONNECTS, CIRCUITS, RECEPTACLES, SWITCHES, DEVICES, AND PANEL BOARDS ARE GROUNDED APPROPRIATELY ACCORDING TO NEC. ELECTRICAL DISCONNECTS SHALL BE INSTALLED AT ALL EQUIPMENT LOCATIONS, WATER HEATERS, UNIT HEATERS, ERV UNITS, PUMPS, ETC.
- COORDINATE PANEL LOCATIONS WITH THE OWNER AND ARCHITECT.
- ALL EMERGENCY LIGHTING AND POWER COVERS TO BE MARKED FOR EMERGENCY POWER.
- CONTRACTOR SHALL COORDINATE ALL LOW AND HIGH VOLTAGE CONDUCTORS, CONDUITS, AND EQUIPMENT WITH MECHANICAL CONTRACTOR.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED GFCI AND AFCI CIRCUIT BREAKERS AND/OR RECEPTACLES AS REQUIRED BY NEC.
- CONTRACTOR SHALL ENSURE ALL PENETRATIONS OF CONDUITS, SWITCHES, BOXES, ETC. THROUGH INSULATED WALLS/CEILINGS SHALL BE SEALED AIR TIGHT.
- ELECTRICAL CIRCUITS SHALL BE A MINIMUM OF 20 AMPS. NUMBER 14 WIRE IS PROHIBITED.
- ATTACH POWER STRIP TO ENDS OF DESKS.
- CONTRACTOR SHALL PROVIDE AND INSTALL FOAM SEALANT IN ALL UNDER SLAB CONDUITS, EQUAL TO POLYWATER FST.

ELECTRICAL POWER AND DATA LEGEND:

- DUPLEX GROUNDED RECEPTACLE, 120V, 20 AMP, COMMERCIAL SPECIFICATION GRADE - LEVITON #BR20 I/W/A
- GFI = GROUND FAULT TYPE - LEVITON #7899
- SPECIFICATION GRADE - LEVITON #BR20 I/W/A
- GFI = GROUND FAULT TYPE - LEVITON #7899 I/W/A
- WP = WEATHERPROOF - LEVITON #4970 COVER, GFI
- RT = RAIN TIGHT WHITE IN USE - LEVITON #5997-CL
- 144" = MOUNTING HT.
- F = FLUSH BRASS FLOOR BOX - LEVITON #25249-FBA OR EQUAL
- CT = COUNTER TOP HEIGHT, VERIFY EXACT HEIGHT AND PLACEMENT
- C = CEILING HEIGHT, FLUSH MOUNT
- S = SURFACE MOUNT
- BC = BELOW COUNTER
- IG = ISOLATED GROUND
- PS = POWER STRIP RECEPTACLE KIT - LEGRAND #2008UL8020R PLUG-IN OUTLET OR EQUAL
- DUPLEX GROUNDED RECEPTACLE, 120V, 20 AMP, COMMERCIAL WITH USB PORT
- QUAD GROUNDED RECEPTACLE 120V 20 AMP COMMERCIAL SPEC. GRADE
- PANELBOARD CABINET, FLUSH MOUNTED
- SURFACE MOUNTED ELECTRICAL PANEL
- PANEL DESIGNATION
- DISCONNECT SWITCH, FUSED
- FLOOR/CEILING MOUNTED QUAD RECEPTACLE
F = FLOOR MOUNT
C = CEILING MOUNT
- EQUIPMENT CONNECTION/SPECIAL PURPOSE
D = DRYER
GFI = GROUND FAULT TYPE
MD = MOTORIZED DAMPER (COORDINATE WITH MECHANICAL PLANS)
EF = EXHAUST FAN
VL = VEHICLE LIFT
R = RANGE
RH = RANGE HOOD
CR = CARD READER (CARD READER WIRE PROVIDED BY OWNER; INSTALLED FROM EACH READER TO NETWORK ROOM BY CONTRACTOR)
ADA = ADA PUSH BUTTON (COORDINATE LOCATION AND SPECIFIC EQUIPMENT REQUIREMENTS WITH ARCHITECT)
TL = HUBBELL TWIST LOCK 20A, 125V, 2-POLE
- POWER CONNECTION
3R = WITH NEMA 3R DISCONNECT
- POWER CONNECTION WITH DISCONNECT SWITCH
- DATA JACK
(CAT6 CABLE, NUMBER IDENTIFIES DATA PORTS)
(COORDINATE WITH OWNER PRIOR TO INSTALL)
1 = SINGLE DATA PORT
2 = DOUBLE DATA PORT
3 = TRIPLE DATA PORT
4 = QUAD DATA PORT
5 = FIVE DATA PORT
6 = SIX DATA PORT
- FLOOR/CEILING MOUNTED DATA JACK
(CAT6 CABLE, NUMBER IDENTIFIES DATA PORTS)
(COORDINATE WITH OWNER PRIOR TO INSTALL)
F = FLOOR MOUNT
C = CEILING MOUNT
1 = SINGLE DATA PORT
2 = DOUBLE DATA PORT
3 = TRIPLE DATA PORT
4 = QUAD DATA PORT
5 = FIVE DATA PORT
6 = SIX DATA PORT



ELECTRICAL POWER AND DATA PLAN
SCALE: 1/4" = 1'-0"



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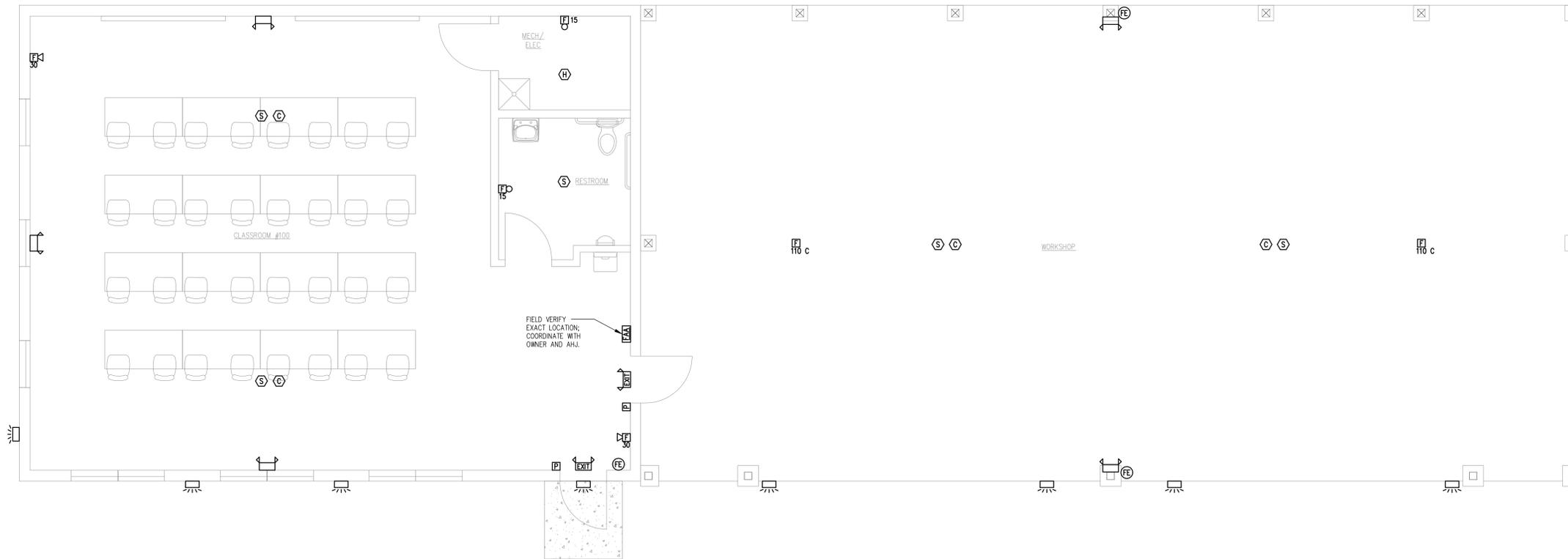
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ELECTRICAL FIRE DEVICES LEGEND

- FACP** FIRE ALARM CONTROL PANEL
- ANN** FIRE ALARM ANNUNCIATOR
- H** HEAT DETECTOR, 135T (SYSTEM SENSOR: 5600 SERIES)
200 = BOILER ROOM HEAT DETECTOR, 200T RATE OF RISE TYPE
- S** SMOKE DETECTOR (SYSTEM SENSOR: 5193 SERIES)
D = DUCT SYSTEM SMOKE DETECTOR (SYSTEM SENSOR: INNOVAIR FLEX D2)
SB = SOUNDER BASE
LF-SB = LOW FREQUENCY SOUNDER BASE
- C** CARBON MONOXIDE DETECTOR (SYSTEM SENSOR: CO 1224)
- S/C/SB** COMBO SMOKE/CARBON MONOXIDE DETECTOR
SB = SOUNDER BASE
- P** FIRE ALARM SYSTEM MANUAL PULL STATION, 48" A.F.F. (HONEYWELL: BG-12)
- FA15** FIRE ALARM SYSTEM SPEAKER/STROBE, 80" A.F.F. UNLESS OTHERWISE INDICATED. CANDELA RATING AS REQUIRED (15, 30, 75, 110) (SYSTEM SENSOR: L SERIES)
- FA30** FIRE ALARM SYSTEM STROBE ONLY, 80" A.F.F. UNLESS OTHERWISE INDICATED. CANDELA RATING AS REQUIRED (15, 30, 75, 110) (SYSTEM SENSOR: SPECTRALERT ADVANCE SERIES)
- FC** FIRE ALARM SYSTEM HORN/STROBE - CEILING MOUNTED
- LF** LOW FREQUENCY HORN STROBE
- STS** SPRINKLER SYSTEM TAMPER SWITCH, COORDINATE WITH SPRINKLER PLAN
- SFS** SPRINKLER SYSTEM FLOW SWITCH, COORDINATE WITH SPRINKLER PLAN
- SPS** SPRINKLER SYSTEM PRESSURE SWITCH, COORDINATE WITH SPRINKLER PLAN
- GD** GAS DETECTOR (MACURCO GD-2A)
- KNOXBOX** (KNOXBOX 3200), COORDINATE WITH ARCHITECT, OWNER, AND FIRE DEPARTMENT
- MACURCO** - RD-VRF SERIES (VRF REFRIGERANT LEAK DETECTOR)
- EXIT** EXIT SIGN, CEILING/WALL MOUNTED, COORDINATE WITH LIGHTING PLAN
- EM** EMERGENCY LIGHT, WALL MOUNTED, COORDINATE WITH LIGHTING PLAN
- EMW** EXTERIOR EMERGENCY WALL MOUNTED LIGHT WITH 90 MIN. BACKUP COORDINATE WITH LIGHTING PLAN
- DH** DOOR HOLDERS
- EXIT** EXIT SIGN, UNIVERSAL MOUNT, COORDINATE WITH LIGHTING PLAN

FIRE PROTECTION GENERAL NOTES:

1. MODIFY EXISTING NFPA 13 SPRINKLER SYSTEM AS REQUIRED. PROVIDE HEAD ABOVE SUSPENDED CEILING AS WELL AS BELOW SUSPENDED CEILING.
2. CONTRACTOR MUST REVIEW DRAWINGS TO DETERMINE THE EXTENT OF THE FIRE PROTECTION SYSTEMS AND ASSOCIATED WORK. EXTRA COMPENSATION WILL NOT BE PAID FOR FAILURE TO VERIFY CONDITIONS.
3. CONTRACTOR SHALL COORDINATE THE SPRINKLER ELEVATIONS TO CORRESPOND WITH THE CEILING HEIGHT. COORDINATE WITH THE GENERAL CONTRACTOR AT NO ADDITIONAL COST.
4. THE DESIGN SHOWN ON THESE CONTRACT DOCUMENTS IS TO PROVIDE GUIDANCE FOR BIDDING AND TO OBTAIN APPROVAL OF THE AUTHORITY HAVING JURISDICTION. SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED TO THE OWNER'S DESIGNATED REVIEWER. BASE DESIGN UPON THESE DRAWINGS AND AS REQUIRED BY THE SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATIONS METHODS, MATERIAL DATA, AND ADDITIONAL INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. CONTRACTOR SHALL PROVIDE PIPE SIZE, SPRINKLER SPACING, AND SYSTEM CONFIGURATION AS SHOWN. ALTERNATES MUST BE APPROVED IN WRITING BY FIRE PROTECTION ENGINEER OF RECORD DOCUMENTS PRIOR TO BID.
5. COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS, INCLUDING PIPING, ALARMS, DRAINS, TEST POINTS, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. OBSTRUCTION TO SPRINKLER DISCHARGE MUST BE CONSIDERED DURING SHOP DRAWING PRODUCTION AND INSTALLATION. ADDITIONAL SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. SUBMIT A REQUEST FOR INFORMATION FOR QUESTIONS REGARDING THE FIRE PROTECTION DOCUMENTS.
7. PENETRATIONS OF 'RATED ASSEMBLIES' SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL PER METHODS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
8. CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID.
9. CONTRACTOR MUST VERIFY ALL DROP DOWN LOCATIONS AT EXTERIOR WALLS WITH THE PROJECT MANAGER PRIOR TO INSTALLATION.
10. ALL PIPING MUST BE COORDINATED AROUND FRAMING MEMBERS AND PROPERLY INSTALLED INSIDE THE JOIST.
11. CONTRACTOR SHALL ROUTE PIPING AROUND ALL OBSTRUCTIONS AND PROVIDE SPRINKLER PROTECTION UNDER OBSTRUCTIONS, AS DETAILED IN NFPA #13 STANDARDS AS PART OF THE FIELD COORDINATION AT NO ADDITIONAL COST TO OWNER.
12. ALL SPRINKLER DEFLECTOR DISTANCE REQUIREMENTS SHALL BE IN ACCORDANCE TO THE STANDARDS OUTLINED IN NFPA #13.
13. ALL PIPING PASSING THROUGH CMU WALLS SHALL BE INSTALLED WITH ONE-INCH CLEARANCE ON ALL SIDES. (CORE DIAMETER-EQUAL TO PIPE +2"). ALL CORES SHALL BE COORDINATED WITH STRUCTURAL REINFORCING. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CORING WITH PROPER CLEARANCE AT ALL CMU WALLS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TWO-INCH CLEARANCE AROUND ALL PIPING PASSING THROUGH CONCRETE SLABS. THE SPRINKLER CONTRACTOR SHALL FILL ALL CLEARANCES WITH APPROVED FIRE SEALANT.
14. PENETRATIONS OF ASSEMBLIES SHALL BE FIRE STOPPED WITH APPROVED MATERIALS.
15. PROVIDE FLUSHING CONNECTIONS IN ACCORDANCE WITH THE STANDARDS OUTLINED IN NFPA #13.
16. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS.
17. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, ETC.
18. ARCHITECTURAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE CONTRACT DOCUMENTS FOR LOCATIONS, SIZES, AND QUANTITIES OF OTHER TRADE WORK.
19. COORDINATE SPRINKLER LOCATIONS WITH REFLECTIVE CEILING PLAN.
20. INTERFACE SPRINKLER SYSTEM WITH FIRE PROTECTION SYSTEM. CONTRACTOR SHALL PROVIDE ALL REQUIRED DEVICES TO ENSURE FULLY OPERATIONAL AND COMPLIANT SYSTEM.
21. ALL MATERIALS SHALL BE UL LISTED AND FM APPROVED. SPRINKLER PIPE SHALL BE MANUFACTURED TO STANDARDS RECOGNIZED BY NFPA #13. THREADED PIPE SHALL HAVE A CORROSION RESISTANCE RATING OF 1.0 OR GREATER. CRIMP-TYPE COUPLINGS SHALL NOT BE USED. THREADED THINWALL PIPE WITH CORROSION RESISTANCE RATING OF LESS THAN 1.0 SHALL BE USED ONLY WITH ROLL GROOVE FITTING.
22. ALL SPRINKLER SYSTEMS TO BE MODIFIED SHALL BE HYDROSTATICALLY TESTED PER NFPA #13 PRIOR TO SPRINKLER SYSTEM MODIFICATION AND SHALL BE RE-HYDROSTATICALLY TESTED AFTER COMPLETION OF WORK.
23. DO NOT HANG OR SUPPORT ANY LOADS OR MAKE ANY ATTACHMENTS TO THE ROOF DECK OR JOIST BRIDGING.
24. SAMMY SCREWS ARE NOT PERMITTED.
25. CEILING FLANGES ARE NOT PERMITTED.
26. PROVIDE RETAINING STRAPS ON HANGERS WHERE REQUIRED.
27. RUBBER INSULATORS REQUIRED AT ANY AND ALL ELECTRICAL/MECHANICAL/PLUMBING UNITS WHICH ATTACH TO ANY STRUCTURAL MEMBERS.
28. FIRE SPRINKLERS (SECTION 12.3.5)
 - MUST BE SUPERVISED (ALARMED TO A CONSTANTLY ATTENDED LOCATION) (TAMPER SWITCHES ON CONTROL VALVES)
 - MUST BE TIED INTO FIRE ALARM CONTROL PANEL
 - USE QUICK RESPONSE FIRE SPRINKLERS
 - MAKE SURE SPRINKLER HEADS ARE USED THAT ARE REQUIRED BY OWNER.
32. ALARMS
 - MUST HAVE SECONDARY POWER, GENERATOR WILL SUFFICE OR BATTERY BACKUP
 - MUST HAVE (1) SMOKE DETECTOR BY FIRE ALARM CONTROL PANEL (FACP) (SECTION 9.6.1.8)
33. CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS WHERE REQUIRED. CONFIRM ACTUAL LOCATIONS WITH AHJ.



FIRE PROTECTION PLAN
 SCALE: 1/4" = 1'-0"

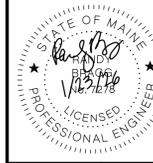


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 OLD TOWN, MAINE
FIRE PROTECTION PLAN

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 Checked: RB
 Scale: AS NOTED
 Date: 05-14-2024
 Project No:
 2023085
 Sheet Number:

FP1



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GENERAL CONSTRUCTION NOTES:

- REFER TO MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
- ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. SHOULD THERE BE ANY DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, NOTIFY ENGINEER FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE FLOOR PLANS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
- DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK. ALL DIMENSIONS ARE GIVEN TO FACE OF SURFACE.
- CONTRACTOR SHALL PROVIDE STIFFENERS, BRACING, BACKING PLATES AND SUPPORTING BRACKETS, ETC. AS REQUIRED FOR THE PROPER INSTALLATION AND SUPPORT OF CABINETS.
- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPPORT STRUCTURES, MECHANICAL, ELECTRICAL, AND FINISHES TO COMPLETE THE WORK AS INTENDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
- THIS SET OF PLANS IS BASED ON THE ORIGINAL BUILDING PLANS AND LIMITED SITE OBSERVATION. ACTUAL CONDITIONS MAY VARY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF CEILINGS, WALLS, FLOORS, ETC. RELATED TO NEW WORK. NOTIFY ENGINEER UPON FINDING ANY DAMAGE.
- CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL ASSOCIATED CONSTRUCTION AND DEMOLITION DEBRIS.
- THE CONTRACTOR SHALL VERIFY ELECTRICAL CONDITIONS AND CONFIRM THAT THE NEW ELECTRICAL WORK WILL MEET CURRENT ELECTRICAL CODE REQUIREMENTS.
- ALL NEW GWB TO BE 5/8" TYPE "X" UNLESS NOTED.
- GENERAL CONTRACTOR AND SUB CONTRACTORS ARE RESPONSIBLE FOR PROVIDING ALL REMOVALS AND PATCHING REQUIRED TO COMPLETE THEIR WORK IN ACCORDANCE WITH THE INTENDED DESIGN.
- COORDINATE FIRE EXTINGUISHER LOCATIONS WITH LOCAL A.H.J.
- CONTRACTOR SHALL PREP, PATCH AND LEVEL ALL WALL SURFACES PRIOR INSTALLATION OF FIXTURES, DOORS, WINDOWS, ETC. WALLS TO BE SQUARE. CONTRACTOR TO SMOOTH BATHROOM WALLS, PROVIDING A FLAT/EVEN SURFACE, PRIOR TO INSTALLATION NEW WALL PANELS.
- CONTRACTOR SHALL PREP ALL FLOOR SURFACES PRIOR TO INSTALLATION OF SUB FLOOR AND FLOORING. THE CONTRACTOR IS RESPONSIBLE FOR LEVELING THE FLOOR WITHIN TOLERANCES IN SPECIFICATIONS.

FINISH NOTES:

- CONTRACTOR SHALL PATCH REMOVED FLOOR SURFACES PRIOR TO INSTALLATION OF NEW FLOOR COATING BY OWNER. SLOPE CONCRETE 1/8" PER FOOT TO DRAIN IN RESTROOM.
- CONTRACTOR SHALL PREP EXISTING WALL AND CEILING SURFACES AS REQUIRED PRIOR TO PAINTING. SAND SMOOTH, PRIME AND PAINT AS REQUIRED.
- ALL NEW METAL DOOR FRAMES TO BE PAINTED.
- ALL WALL CONSTRUCTION SHALL BE PAINTED.
- ALL EXPOSED RACEWAY/CONDUIT SHALL BE PAINTED TO MATCH WALL/CEILING FINISH.
- REFER TO SPECIFICATION FOR FINISHES SECTIONS.
- BLEND NEW CONSTRUCTION FINISHES AS SMOOTHLY AS POSSIBLE.
- ALL NEW INTERIOR TRIM AND MOLDING PIECES SHALL BE PAINTED.

WINDOW SCHEDULE (ALTERNATE 2)			
SYMBOL	R.O. (WxH)	TYPE	BASIS OF DESIGN
WS	(VARIES)	CURTAIN WALL	POLY REINFORCED FROSTY CLEAR FABRIC BARN DOUBLE ROLL CURTAIN SYSTEM EQUAL TO SENECA COMPLETE WITH ALL HARDWARE AND MOTORS.

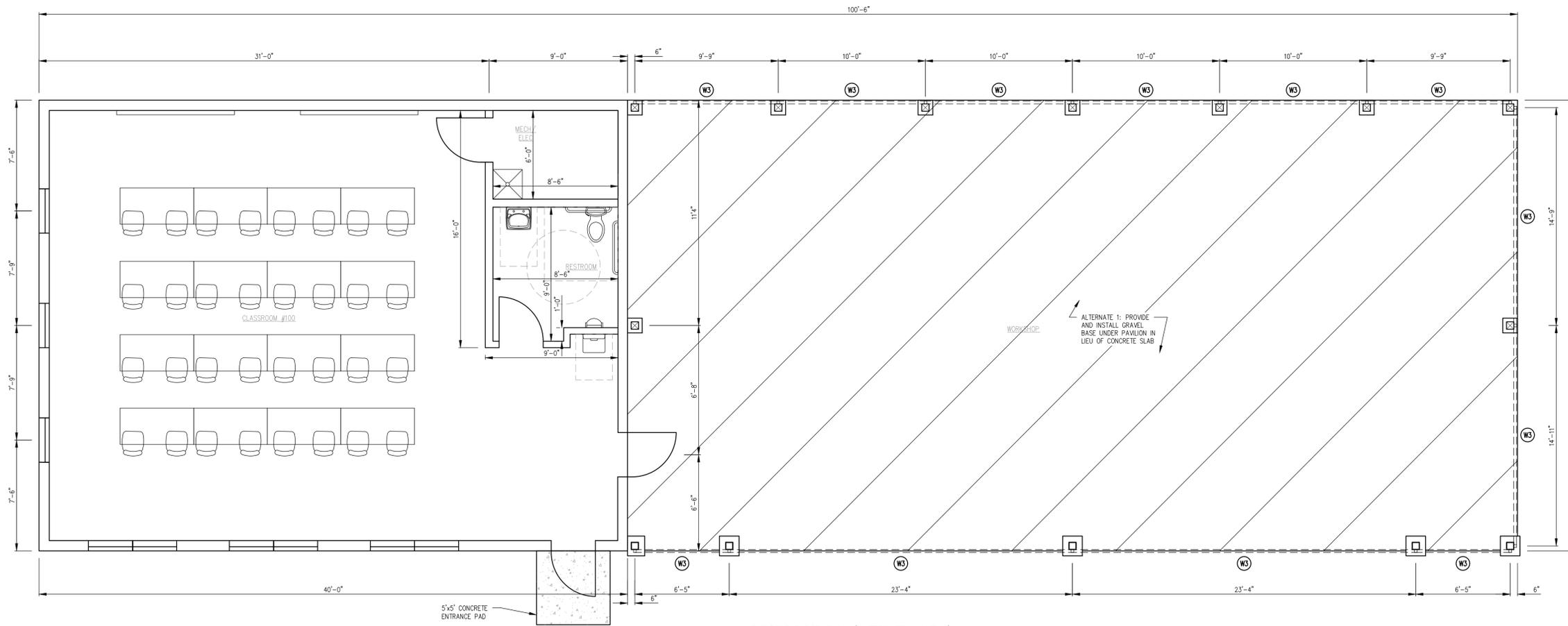
- NOTES:**
- SIDE CURTAINS SHALL INCLUDE HEAVY DUTY HEADER, PIPE ATTACHMENTS, MANUAL CONTROLS, AND TEMPERATURE CONTROLLERS.
 - CONTRACTOR TO PROVIDE AND INSTALL A 15 OZ POLY REINFORCED FROSTY CLEAR FABRIC DOUBLE ROLL CURTAIN SYSTEM EQUAL TO SENECA COMPLETE WITH ALL HARDWARE.

ALTERNATE 1 SCOPE OF WORK:

- PROVIDE AND INSTALL GRAVEL BASE IN LIEU OF CONCRETE SLAB AT WORKSHOP AREA BELOW PAVILION (REFER TO SITE TYPICAL GRAVEL BASE DETAIL).

ALTERNATE 2 SCOPE OF WORK:

- PROVIDE AND INSTALL CURTAIN FABRIC AND HARDWARE TO COMPLETE ROLLING CURTAIN SYSTEM AS SPECIFIED IN ALTERNATE WINDOW SCHEDULE.

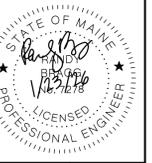


BUILDING FLOOR PLAN (ALTERNATE 1 AND 2)
SCALE: 1/4" = 1'-0"



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DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
BUILDING FLOOR PLAN
(ALTERNATE 1 AND 2)

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Scale: AS NOTED
Date: 05-14-2024
Project No:
2023085
Sheet Number:

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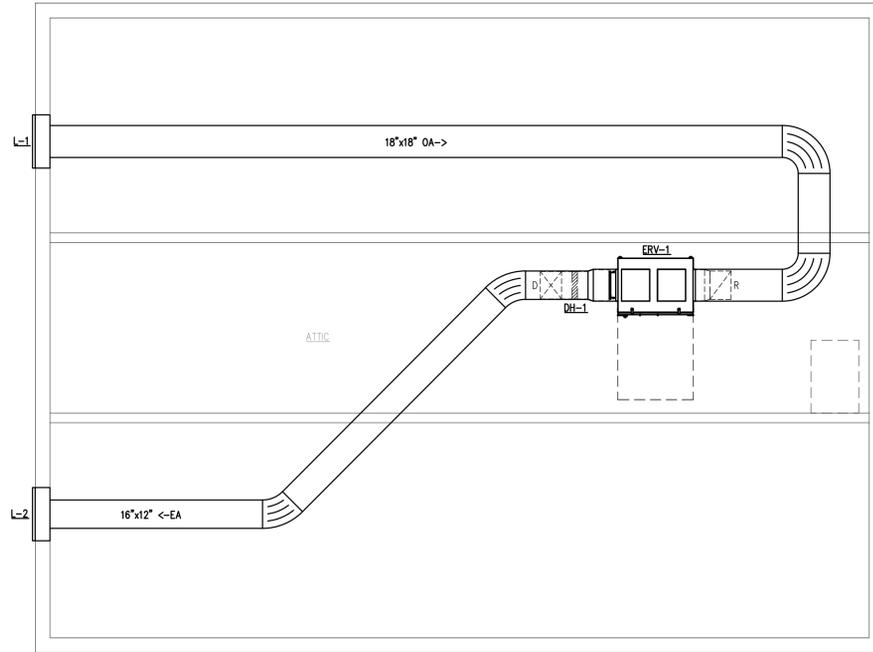
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MECHANICAL NOTES:

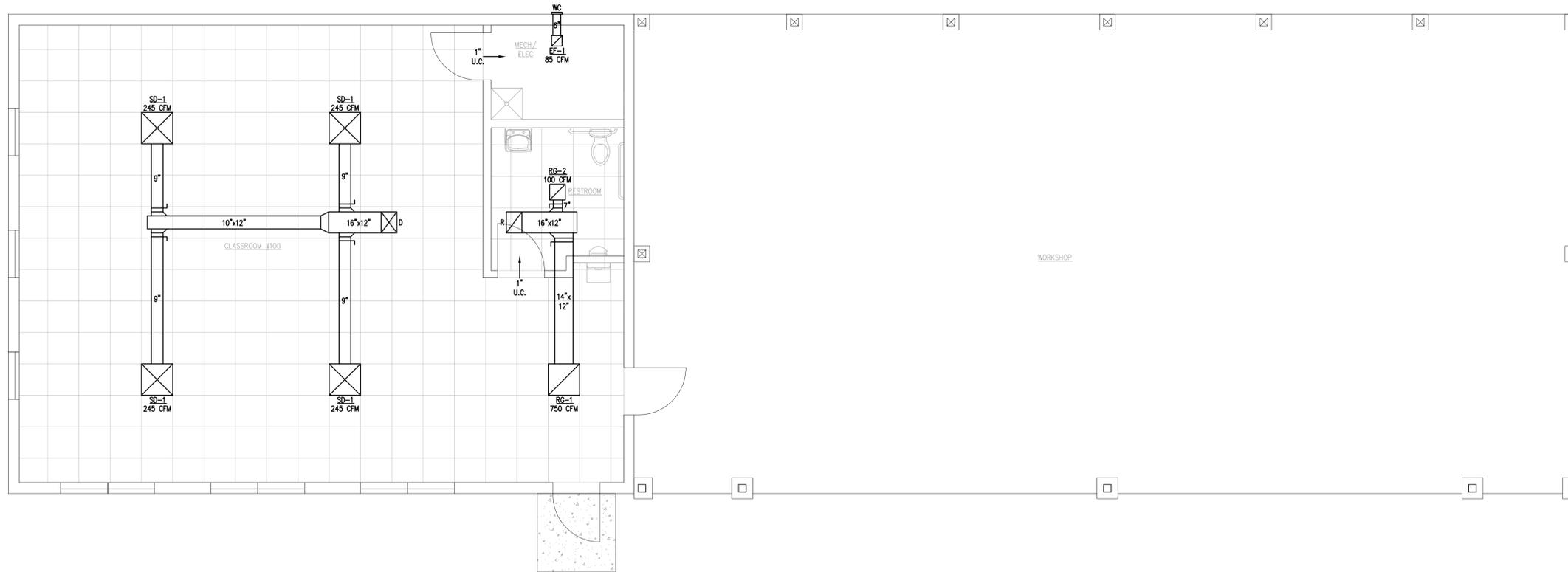
1. ALL SPACE THERMOSTATS SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR (AFF).
2. PIPING SHALL BE RUN AS DIRECT AS POSSIBLE, PARALLEL TO & FORMING RIGHT ANGLES TO THE LINES OF THE BUILDING, SUPPORTED FROM THE STRUCTURE, FREE FROM POCKETS & SAGS & PITCHED TO LOW POINT DRAINS.
3. LOCATE ALL VALVES FOR EASY ACCESS & OPERATION. DO NOT LOCATE VALVES W/STEMS BELOW HORIZONTAL. PROVIDE ACCESS PANELS WHERE REQUIRED.
4. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WEATHERTIGHT.
5. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
6. DUCTWORK SHALL BE COORDINATED TO PREVENT ANY INTERFERENCES W/PLUMBING, PIPING, ELECTRICAL, STRUCTURAL, FIRE PROTECTION, ARCHITECTURAL AND OTHER WORK. FIELD VERIFY EXACT PATHWAY, ADJUST DUCTWORK AS REQUIRED.
7. WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL AND STATE CODES AND REGULATIONS.
8. ALL DUCT SIZES INDICATED ARE OUTSIDE (SHEET METAL) DIMENSIONS, WITH THE EXCEPTION OF ACOUSTICALLY LINED DUCT WHICH IS INSIDE ACOUSTICAL LINER.
9. ALL CUTTING AND PATCHING SHALL BE PROVIDED BY GENERAL CONTRACTOR.
10. ALL DUCTWORK AND PIPING SHALL BE INSULATED.
11. ALL PIPING SHALL BE RUN CONCEALED AND ON WARM SIDE OF BUILDING INSULATION WHEREVER POSSIBLE UNLESS NOTED OTHERWISE.
12. PIPING IS SHOWN DIAGRAMMATICALLY. EXACT LOCATION TO BE ADJUSTED AS REQUIRED TO SUIT FIELD CONDITIONS.
13. ALL DIMENSIONS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD.
14. PROVIDE AUTOMATIC AIR VENTS AT ALL LOCATIONS WHERE WATER PIPING DROPS IN THE DIRECTION OF FLOW, AT ALL HIGH POINTS AND ELSEWHERE AS INDICATED ON DRAWINGS.
15. PROVIDE DRAINS AT ALL LOW POINTS IN THE WATER PIPING SYSTEM.
16. COPPER PIPING SHALL BE TYPE 'L' OR 'K'. TYPE 'M' SHALL NOT BE USED FOR THIS PROJECT.
17. STRUCTURAL MEMBERS SHALL NOT BE CUT, NOTCHED, OR BORED WITHOUT APPROVAL FROM ENGINEER.
18. PIPE SIZING BASED ON TYPE 'L' COPPER. VERIFY SIZING WITH ENGINEER IF ALTERNATE PIPING IS INSTALLED.

ALTERNATE 3 SCOPE OF WORK:

1. PROVIDE AND INSTALL ERV-1 AND DUCTWORK ASSOCIATED, INCLUDING ELECTRICAL, DUCTWORK, LIGHTING, AND ATTIC TRUSSES ETC. TO COMPLETE WORK.



ATTIC MECHANICAL DUCTWORK PLAN (ALTERNATE 3)
SCALE: 1/4" = 1'-0"



MECHANICAL DUCTWORK PLAN (ALTERNATE 3)
SCALE: 1/4" = 1'-0"

MECHANICAL LEGEND

ABBREVIATIONS/SYMBOLS:
CFM CUBIC FEET PER MINUTE
FC FAN COIL
Ø DIAMETER
EG EXHAUST GRILLE
RG RETURN GRILLE
SD SUPPLY DUCT
SG SUPPLY GRILLE

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UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
MECHANICAL DUCTWORK PLAN (ALTERNATE 3)

Drawn: AT
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FOR BID
01-23-2026

M1A

Jan 29, 2026 - 2:10pm
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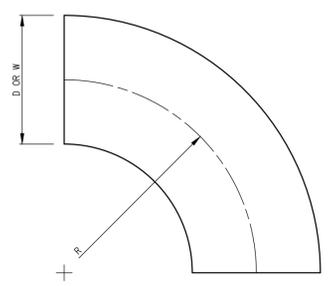
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UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
MECHANICAL DUCTWORK DETAILS
(ALTERNATE 3)

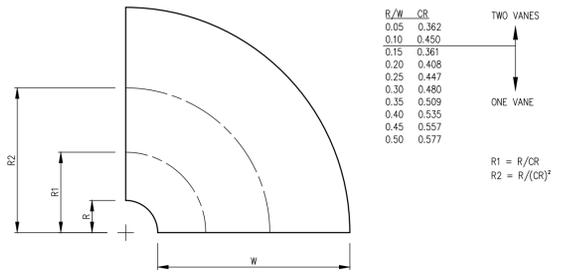
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M2A



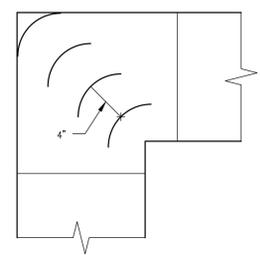
ELBOW RADIUS DETAIL (ROUND AND RECTANGULAR)
NOT TO SCALE

NOTE:
UNLESS OTHERWISE SHOW, PROVIDE RADIUS "R" OF 1.5xD (ROUND ELBOW) OR 1.5xW (RECTANGULAR ELBOWS).



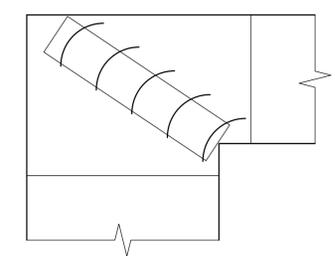
SPLITTER VANE DETAIL (SHORT RADIUS RECTANGULAR ELBOWS)
NOT TO SCALE

NOTE:
FOR SMOOTH RADIUS RECTANGULAR ELBOWS WHERE R/W IS 0.5 OR LESS, PROVIDE SPLITTER VANES.



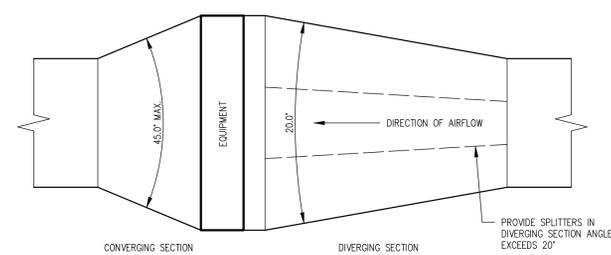
TURNING VANE DETAIL (RECTANGULAR ELBOWS)
NOT TO SCALE

NOTE:
IF LESS THAN (4) TURNING VANES FIT, PROVIDE 2" VANES.
IF LESS THAN (4) 2" VANES FIT, PROVIDE RADIUS ELBOW.

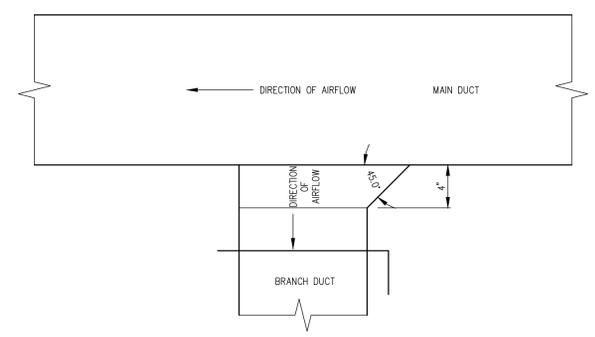


TURNING VANE DETAIL (UNEQUAL LEG RECTANGULAR ELBOWS)
NOT TO SCALE

NOTE:
IN ELBOWS WITH UNEQUAL INLET AND OUTLET SIZES, INSTALL VANES TURNED TANGENT TO AIRFLOW.

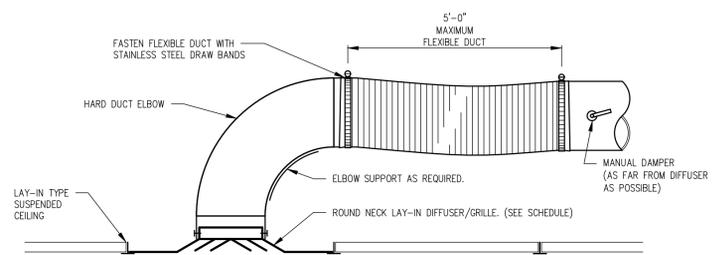


DUCT TRANSITION DETAIL
NOT TO SCALE

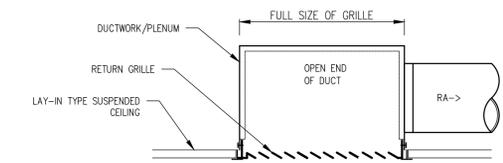


45° TAKEOFF DETAIL (SUPPLY/RETURN DUCT)
NOT TO SCALE

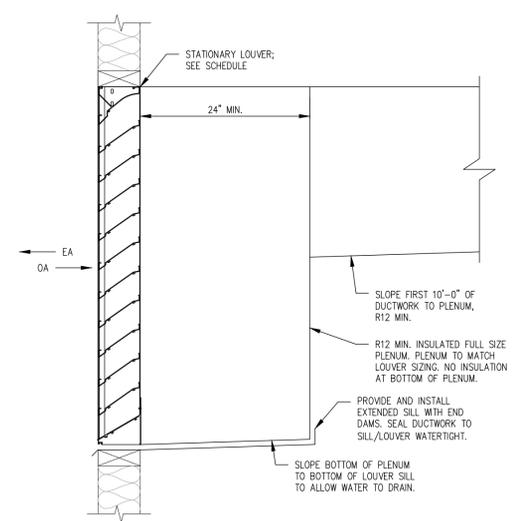
NOTE:
POSITION VOLUME DAMPER AT LEAST (BUT NO MORE THAN WHERE POSSIBLE) (2) EQUIVALENT DUCT DIAMETERS FROM MAIN DUCT.



ROUND NECK GRILLE AND DIFFUSER DETAIL
NOT TO SCALE

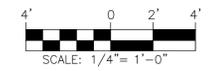


RETURN GRILLE PLENUM DETAIL
NOT TO SCALE



OUTSIDE AIR LOUVER/PLENUM DETAIL
NOT TO SCALE

NOTE:
1. MODIFY PLENUM AS REQUIRED TO MATCH FIELD CONDITIONS. ENSURE PLENUM IS WATERTIGHT.
2. PROVIDE AND INSTALL DUCT ACCESS DOORS FOR SNOW REMOVAL IN PLENUM ON BOTH SIDES OF PLENUM.



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01-23-2026



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UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
MECHANICAL SCHEDULES
(ALTERNATE 3)

Drawn: AT
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TAG	EXHAUST (CFM)	SUPPLY (CFM)	E.S.P. (N. WG)	EFFECTIVENESS (WINTER %)	SA MOTOR HP	EA MOTOR HP	ELECTRICAL			MODEL	FILTERS		NOTES
							(V/PH/Hz)	MCA	MOP		EXHAUST	SUPPLY	
ERV-1	890	980	1.25	70	1	1	230/1/60	7.7	15	HE1.5XNH	8	13	1, 2, 3, 4

- NOTES:
1. PROVIDE WITH INTEGRATED CONTROLS.
 2. PROVIDE AND INSTALL ECONOMICAL BYPASS DAMPER AND ASSOCIATED DUCTWORK. COORDINATE WITH MANUFACTURER AS REQUIRED.
 3. PROVIDE DOUBLE WALL CONSTRUCTION, NON-FUSED, DISCONNECT SWITCH, AND VFD'S/FCM MOTORS.
 4. PROVIDE AND INSTALL BACKDRAFT DAMPERS FOR OA AND EA AT EXTERIOR LOUVERS (L-1/L-2).

TAG	SIZE (IN)	KW	TYPE	ELECTRICAL				NOTES
				VOLT/PH/Hz	FLA	MCA	MOP	
DH-1	16x12	9	ELECTRICAL	240/1/60	--	37.5	50	1

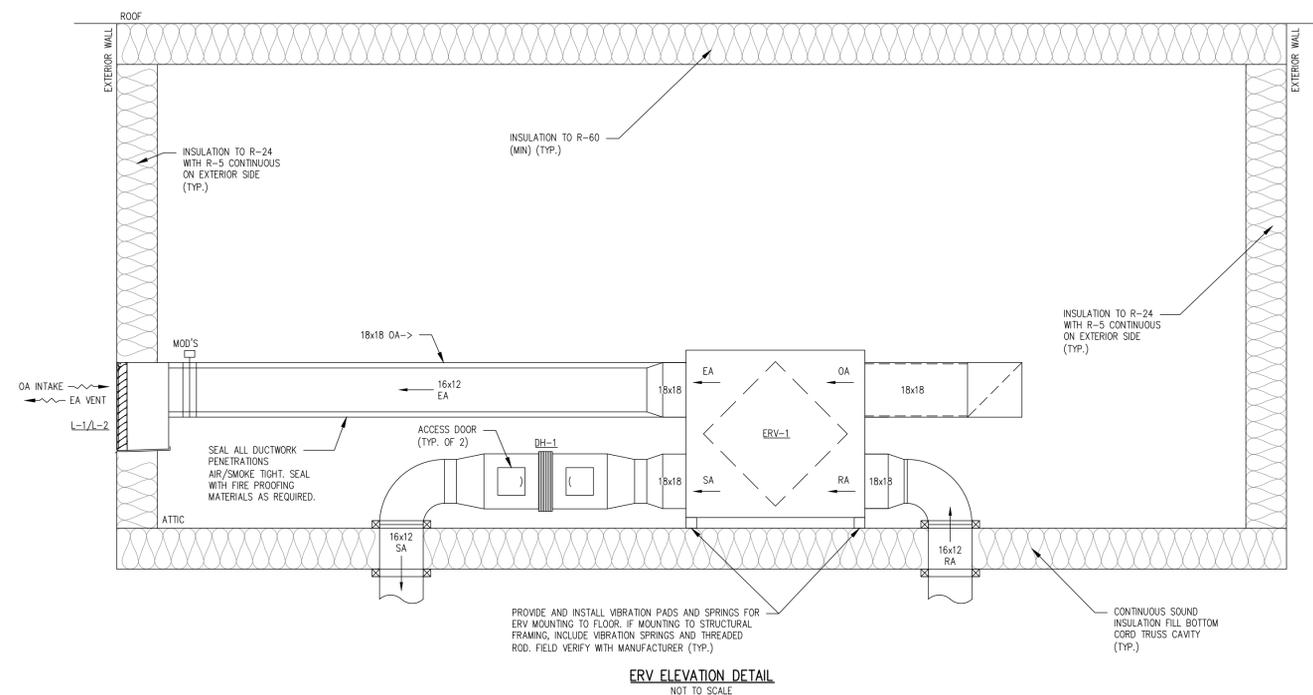
- NOTES:
1. PROVIDE WITH TEMPERATURE SENSOR, CONNECT TO ERV CONTROLS.

TAG	MODEL	TYPE	MOUNTING	PATTERN	NOMINAL CFM	THROW-150 (FT)	STATIC PRESSURE MAX. INCHES WG	NOISE MAX. NC	SIZE (INCHES)	NECK SIZE (INCHES)	OTHER
											REQUIREMENTS
SD-1	SCD-FR	SQUARE CONE	T-BAR	4-WAY	273	8	0.030	--	24x24	10	1, 2, 3
RG-1	S35-FR	LOUVERED GRILLE	T-BAR	1/2" BLADE SPACING, 45° DEFLECTION	182	--	0.015	--	12x12	10x10	1, 2, 3
RG-2	S35-FR	LOUVERED GRILLE	T-BAR	1/2" BLADE SPACING, 45° DEFLECTION	850	--	0.015	--	24x24	22x22	1, 2, 3

- NOTES:
1. WHITE POWDER COAT OR BAKED ENAMEL FINISH.
 2. PROVIDE CEILING FIRE DAMPER WITH 165° FUSIBLE LINK.
 3. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

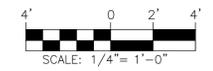
TAG	SIZE (H x W)	AIRFLOW (CFM)	S.P. LOSS (N. WG)	FREE AREA (SQ. FT.)	SERVES	MODEL
L-1	24"x30"	980	0.030	2.27	ERV-1 OA	ESD-635
L-2	24"x30"	890	0.030	2.27	ERV-1 EA	ESD-635

*NOTE: COLOR SELECTION BY OWNER.



ERV ELEVATION DETAIL
NOT TO SCALE

- NOTE:
1. COORDINATE ATTIC SPACE WITH BUILDING DRAWINGS.
 2. ACTUAL LAYOUT MAY VARY, MODIFY DUCTWORK, SUPPORTS, ETC. AS REQUIRED. DUCTWORK SHOWN FOR CLARITY.
 3. EA AND OA INTAKE LOUVERS SHALL BE INSTALLED AT SAME ELEVATION. SEE BUILDING DRAWINGS AND MODIFY DUCTWORK, LOUVERS, ETC. AS REQUIRED. DUCTWORK SHOWN FOR CLARITY.
 4. COORDINATE INSULATION REQUIREMENTS WITH ARCHITECTURAL PLANS.



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UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
ELECTRICAL POWER PLAN
(ALTERNATE 3)

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ELECTRICAL DATA NOTES:

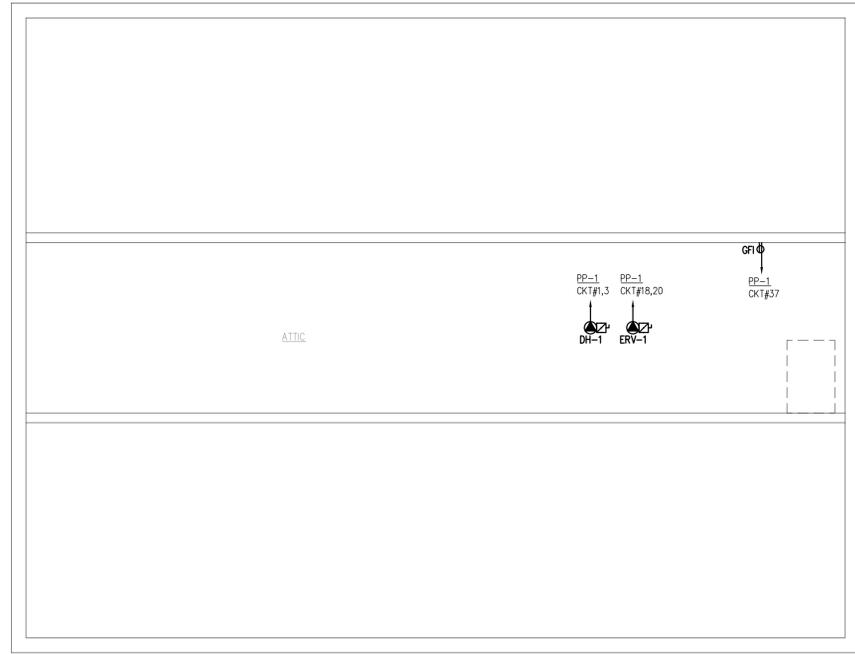
- CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT MATERIALS, ETC. TO COMPLETE THE INTENT OF THE PROPOSED DATA, PHONE, CABLE SYSTEMS, INCLUDING COORDINATION WITH OWNER SERVICE PROVIDERS.
- CONTRACTOR SHALL PROVIDE CABLE MANAGEMENT SYSTEM FOR SERVICES (DATA, PHONE, CABLE) WHERE REQUIRED.
- CONTRACTOR SHALL PROVIDE RECEPTACLES FOR ALL SERVICES AS REQUIRED.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, DATA JACKS, FACE PLATES AND CABLING. CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING AS REQUIRED. CONTRACTOR SHALL COORDINATE LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
- ENSURE 5 FEET OF SLACK CABLE EXISTS AT EACH JACK LOCATION AND EXTRA 15 FEET SLACK CABLING AT ALL HUBS/SERVERS/SWITCHES. CONTRACTOR TO LABEL ALL CABLING AT JACK AND IT ROOM TERMINATIONS. CONTRACTOR IS RESPONSIBLE FOR REWORK OF MIS-LABELED CABLING.
- CONTRACTOR SHALL PROVIDE ALL POWER CONNECTIONS FOR THE DATA/COMMUNICATIONS SYSTEM. COORDINATE LOCATION AND REQUIREMENTS WITH THE ENGINEER AND OWNER PRIOR TO INSTALLATION.
- ALL CABLES SHALL BE RUN NEATLY, PROPERLY BOUND, SEPARATE BOUND COLOR CODE AND IN AN ORTHOGONAL MANNER. NO DIAGONAL RUNS WILL BE ALLOWED.
- PROVIDE CAT6 WIRE FOR ACCESS CONTROL TO CONTROL PANEL IN DATA ROOM. WIRE SHOULD BE 48" A.F.F. ACCESS CONTROL DEVICE BY OWNER. COORDINATE WITH OWNER.

ELECTRICAL POWER NOTES:

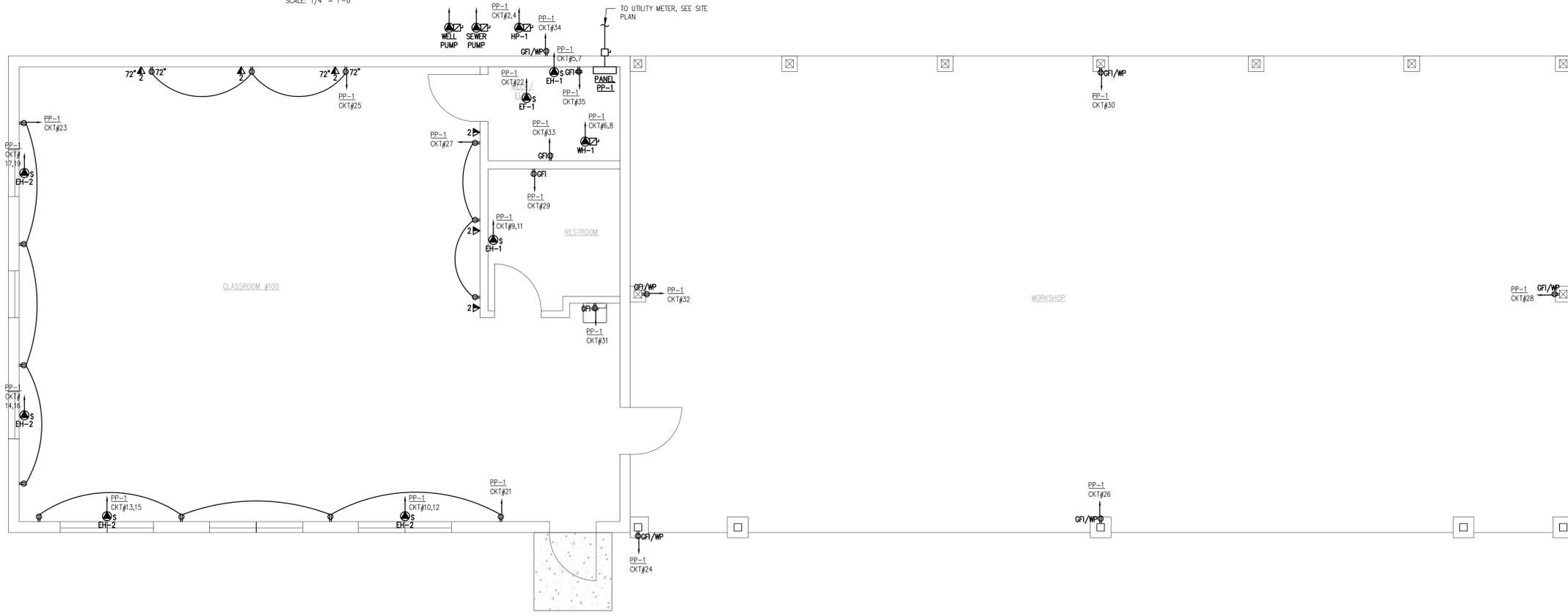
- CONTRACTOR SHALL COORDINATE ACCESS TO ALL CRITICAL AREAS, INCLUDING VALVES, DAMPERS, CONTROL CIRCUITS, SECURITY CAMERAS, SPEAKERS, SPRINKLERS, ETC. SUSPENDED CEILING TILES SHALL BE CONSIDERED ACCESS.
- THE CONTRACTOR SHALL INSTALL ALL CABLING IN SUCH A MANNER AND WITH ENOUGH SLACK AS TO ALLOW FOR TEMPORARY MOVEMENT DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE TEMPORARY MOVEMENT WITH THE TRADES IN QUESTION TO PROVIDE PROPER PROTECTION AND SUPPORT.
- WALLS SHOWN ON DRAWING MAY NOT BE REPRESENTATIVE OF ACTUAL WALL TYPES AND CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL FLOOR, WALL, AND CEILING TYPES FOR SUPPORT AND PENETRATIONS INFORMATION.
- PROVIDE PULL BOXES, JUNCTION BOXES, ETC., AS NEEDED, MEETING THE NEC.
- CONTRACTOR TO INSTALL ALL WIRING, CONDUITS, ETC. FROM ALL RECEPTACLE LOCATIONS TO ELECTRICAL ROOM.
- RUBBER INSULATORS REQUIRED AT ANY AND ALL ELECTRICAL/MECHANICAL/PLUMBING UNITS WHICH ATTACH TO ANY STRUCTURAL MEMBERS.
- ALL RECEPTACLES SHALL BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED. ALL SWITCHES SHALL BE MOUNTED AT 48" A.F.F. UNLESS OTHERWISE NOTED.
- ENSURE ALL ELECTRICAL DISCONNECTS, CIRCUITS, RECEPTACLES, SWITCHES, DEVICES, AND PANEL BOARDS ARE GROUNDED APPROPRIATELY ACCORDING TO NEC. ELECTRICAL DISCONNECTS SHALL BE INSTALLED AT ALL EQUIPMENT LOCATIONS, WATER HEATERS, UNIT HEATERS, ERV UNITS, PUMPS, ETC.
- COORDINATE PANEL LOCATIONS WITH THE OWNER AND ARCHITECT.
- ALL EMERGENCY LIGHTING AND POWER COVERS TO BE MARKED FOR EMERGENCY POWER.
- CONTRACTOR SHALL COORDINATE ALL LOW AND HIGH VOLTAGE CONDUCTORS, CONDUITS, AND EQUIPMENT WITH MECHANICAL CONTRACTOR.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED GFCI AND AFCI CIRCUIT BREAKERS AND/OR RECEPTACLES AS REQUIRED BY NEC.
- CONTRACTOR SHALL ENSURE ALL PENETRATIONS OF CONDUITS, SWITCHES, BOXES, ETC. THROUGH INSULATED WALLS/CEILING SHALL BE SEALED AIR TIGHT.
- ELECTRICAL CIRCUITS SHALL BE A MINIMUM OF 20 AMPS. NUMBER 14 WIRE IS PROHIBITED.
- ATTACH POWER STRIP TO ENDS OF DESKS.
- CONTRACTOR SHALL PROVIDE AND INSTALL FOAM SEALANT IN ALL UNDER SLAB CONDUITS, EQUAL TO POLYWATER FST.

ELECTRICAL POWER AND DATA LEGEND:

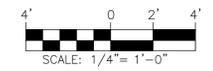
- ⊕ DUPLEX GROUNDED RECEPTACLE, 120V, 20 AMP, COMMERCIAL SPECIFICATION GRADE - LEVITON #BR20 I/W/A
- GFI = GROUND FAULT TYPE - LEVITON #7899
- SPECIFICATION GRADE - LEVITON #BR20 I/W/A
- GFI = GROUND FAULT TYPE - LEVITON #7899 I/W/A
- WP = WEATHERPROOF - LEVITON #4970 COVER, GFI
- RT = RAIN TIGHT WHILE IN USE - LEVITON #5997-CL
- +44" = MOUNTING HT.
- F = FLUSH BRASS FLOOR BOX - LEVITON #25249-FBA OR EQUAL
- CT = COUNTER TOP HEIGHT, VERIFY EXACT HEIGHT AND PLACEMENT
- C = CEILING HEIGHT, FLUSH MOUNT
- S = SURFACE MOUNT
- BC = BELOW COUNTER
- IG = ISOLATED GROUND
- PS = POWER STRIP RECEPTACLE KIT - LEORAND #2008UL8020R PLUG-IN OUTLET OR EQUAL
- ⊕ DUPLEX GROUNDED RECEPTACLE, 120V, 20 AMP, COMMERCIAL WITH USB PORT
- ⊕ QUAD GROUNDED RECEPTACLE 120V 20 AMP COMMERCIAL SPEC. GRADE
- ▭ PANELBOARD CABINET, FLUSH MOUNTED
- ▭ SURFACE MOUNTED ELECTRICAL PANEL
- ▭ PANEL DESIGNATION
- ⊕ DISCONNECT SWITCH, FUSED
- ⊕ FLOOR/CEILING MOUNTED QUAD RECEPTACLE
F = FLOOR MOUNT
C = CEILING MOUNT
- ⊕ EQUIPMENT CONNECTION/SPECIAL PURPOSE
D = DRYER
GFI = GROUND FAULT TYPE
MD = MOTORIZED DAMPER (COORDINATE WITH MECHANICAL PLANS)
EF = EXHAUST FAN
VL = VEHICLE LIFT
R = RANGE
RH = RANGE HOOD
CR = CARD READER (CARD READER WIRE PROVIDED BY OWNER; INSTALLED FROM EACH READER TO NETWORK ROOM BY CONTRACTOR)
- ⊕ POWER CONNECTION
3R = WITH NEMA 3R DISCONNECT
- ⊕ POWER CONNECTION WITH DISCONNECT SWITCH
- ▼ DATA JACK
(CAT6 CABLE, NUMBER IDENTIFIES DATA PORTS)
(COORDINATE WITH OWNER PRIOR TO INSTALL)
1 = SINGLE DATA PORT
2 = DOUBLE DATA PORT
3 = TRIPLE DATA PORT
4 = QUAD DATA PORT
5 = FIVE DATA PORT
6 = SIX DATA PORT
- ▼ FLOOR/CEILING MOUNTED DATA JACK
(CAT6 CABLE, NUMBER IDENTIFIES DATA PORTS)
(COORDINATE WITH OWNER PRIOR TO INSTALL)
F = FLOOR MOUNT
C = CEILING MOUNT
1 = SINGLE DATA PORT
2 = DOUBLE DATA PORT
3 = TRIPLE DATA PORT
4 = QUAD DATA PORT
5 = FIVE DATA PORT
6 = SIX DATA PORT



ATTIC ELECTRICAL POWER AND DATA PLAN (ALTERNATE 3)
SCALE: 1/4" = 1'-0"



ELECTRICAL POWER AND DATA PLAN (ALTERNATE 3)
SCALE: 1/4" = 1'-0"



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ELECTRICAL LIGHTING NOTES:

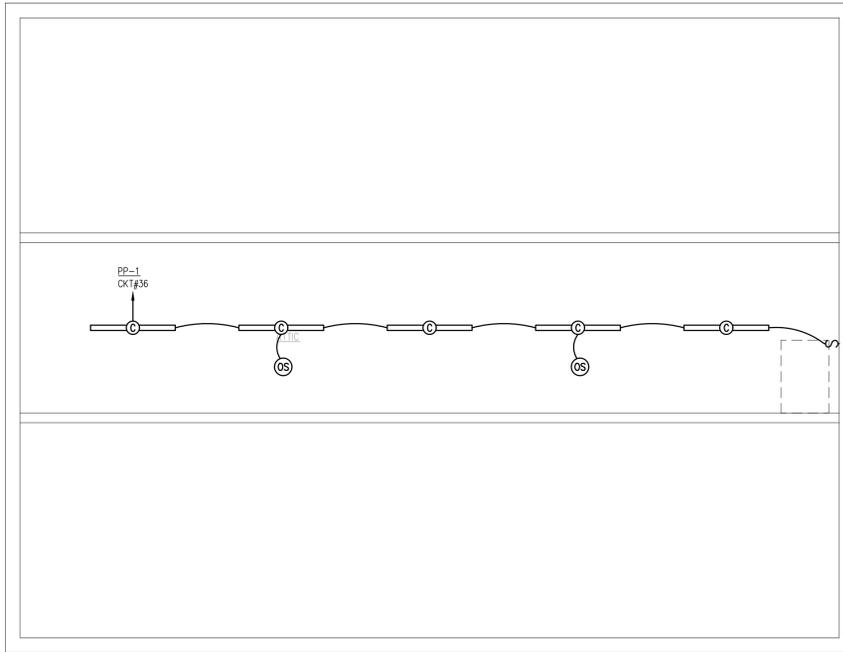
- ALL LIGHTING CIRCUITS ARE SHOWN DIAGRAMMATICALLY.
- MULTIPLE CONDUCTORS FOR SWITCHING NOT ALWAYS SHOWN. MULTIPLE CONDUCTORS FOR THREE-WAY SWITCHING NOT SHOWN. PROVIDE APPROPRIATE NUMBER OF CONDUCTORS FOR ALL CIRCUITS.
- FOR LIGHTING ON OCCUPANCY SENSOR SWITCHING, ONLY OCCUPANCY SENSOR LOCATION IS SHOWN. PROVIDE ALL OTHER APPROPRIATE ASSOCIATED HARDWARE AS NEEDED, INSTALLED ABOVE CEILING TILES. COORDINATE WITH LIGHTING MANUFACTURER.
- COORDINATE INSTALLATION OF ALL FIXTURES WITH REFLECTIVE CEILING PLAN AND ALL TRADES AND EQUIPMENT.
- CONTRACTOR SHALL COORDINATE LIGHTING PANEL CIRCUITS WITH ELECTRICAL POWER PLANS.
- CONTRACTOR TO INSTALL ALL WIRING, CONDUITS, ETC. FROM ALL LIGHTING LOCATIONS TO ELECTRICAL ROOM AND/OR ELECTRICAL PANELS.
- ENSURE ALL ELECTRICAL DISCONNECTS, CIRCUITS, RECEPTACLES, SWITCHES, DEVICES, AND PANEL BOARDS ARE GROUNDED APPROPRIATELY ACCORDING TO NEC.
- ALL EMERGENCY LIGHTING AND POWER TO BE MARKED FOR EMERGENCY POWER.
- ALL EXTERIOR LIGHTS SHALL HAVE EMERGENCY POWER BACKUP.
- ALL EXTERIOR LIGHTING TO HAVE PHOTOCELL SENSOR CONTROLS AND MANUAL SWITCH CONTROLS FOR OVERRIDE OPERATION.
- CONTRACTOR SHALL SUPPLY AND INSTALL ALL REQUIRED MOUNTING ACCESSORIES FOR ALL LIGHT FIXTURES. ALL LIGHTS SHALL HAVE 0-10V DIMMING CAPABILITIES.
- ALL EXTERIOR LIGHTS SHALL BE WET RATED.
- CONTRACTOR SHALL ENSURE ALL EMERGENCY LIGHTS HAVE ADEQUATE COVERAGE TO MAINTAIN MINIMUM OF 1FC AT ALL CORRIDORS, EGRESS PATHWAYS, AND EXIT DOORS TO PUBLIC WAY. CONTRACTOR SHALL MODIFY AND/OR ADD ADDITIONAL FIXTURES TO MEET LIFE SAFETY STANDARDS.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL SWITCHES WITH DIMMER SWITCHES, OCCUPANCY SENSORS, ETC.
- ALL EXTERIOR LIGHTING SHALL BE DARK SKY COMPLIANT; FULL CUT OFF STYLE.

ELECTRICAL LIGHTING LEGEND

- LIGHT FIXTURE - SURFACE MOUNTED, RECESSED, DOWNLIGHT OR CAN LIGHT
CAPITAL LETTERS = LIGHT FIXTURE TYPE, SEE LIGHT FIXTURE SCHEDULE
LOWER CASE LETTERS = ZONE FOR LIGHTING CONTROL
- LIGHT FIXTURE - SURFACE OR FLUSH MOUNTED LINEAR LIGHT
- LIGHT FIXTURE - WALL MOUNTED
PE = PHOTOELECTRIC SENSOR
- D SINGLE POLE WALL SWITCH 120V, 20 AMP, COMMERCIAL
SWITCH
BLANK = SINGLE POLE
2 = DOUBLE POLE
3 = THREE-WAY
4 = FOUR-WAY
D = DIMMER
K = KEY OPERATED
L = LOCK
LM = LOW VOLTAGE MASTER
L = LOCK
P = PHOTOCELL CONTROLLED
RC = REMOTE CONTROL
T = TIMER OPERATED
WF = WEATHER PROOF
OS = OCCUPANCY SENSOR
PL = PILOT LIGHT
- Ⓞ OCCUPANCY SENSOR

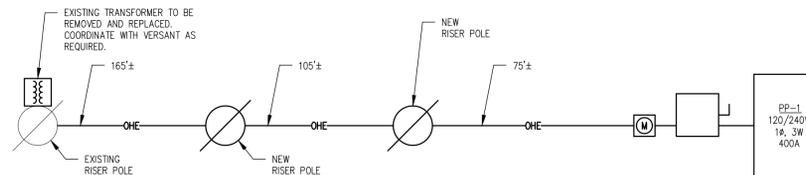
LIGHTING FIXTURE SCHEDULE				
SYMBOL	MAKE AND MODEL	DESCRIPTION	POWER	NOTES
Ⓞ	ACUITY BRANDS CLX-L48-5000LM-SEF-RDL-MVOLT-G210-35K-80CRI-WH	LED STRIP LIGHT	31.83W	MOUNTING HEIGHT = 10'-0"

- NOTES:**
- ALL LIGHT FIXTURES IN COMMON SPACES AND OWNER SPACES SHALL HAVE DAYLIGHT HARVESTING SENSORS AND OCCUPANCY SENSORS; ADJUST LIGHT LEVELS ACCORDINGLY. PROVIDE AND INSTALL SUPPLEMENTAL SENSORS AS REQUIRED.
 - EXTERIOR LIGHTS SHALL HAVE PHOTOCELL SENSORS.



ATTIC ELECTRICAL LIGHTING PLAN (ALTERNATE 3)
SCALE: 1/4" = 1'-0"

NEW PANEL		PANEL NAME: PP-1										POWER			
VOLTAGE: 120/240V		PHASE: 1		WIRE: 3		MAIN TYPE: MCB		LOCATION: MECHELEC				MOUNTING: SURFACE			
400A		FED FROM: RISER POLE WITH METER													
SERVICE	POLE	BRKR	NOTE	CONDUCTOR SIZE	CONDUIT SIZE	LOAD		CKT#	CONDUIT SIZE	CONDUCTOR SIZE	NOTE	BRKR	POLE	SERVICE	
						A	B								
DH-1	2P	50A				1	9.0	5.8	2			30A	2P	HP-1	
EH-1	2P	20A				3	0.84	4.8	4			20A	2P	WH-1	
EH-1	2P	20A				5	0.94	3.1	6			20A	2P	EH-2	
EH-2	2P	20A				7	3.1	3.1	8			20A	2P	EH-2	
EH-2	2P	20A				9	3.1	1.8	10			15A	2P	ERV-1	
CLASSROOM RECEPTACLES #1	1P	20A				11	0.72	0.5	12			20A	1P	EF-1	
CLASSROOM RECEPTACLES #2	1P	20A				13	0.72	1.2	14			20A	1P	SAWMILL PAVILION RECEPTACE #1	
CLASSROOM RECEPTACLES #3	1P	20A				15	0.54	1.2	16			20A	1P	SAWMILL PAVILION RECEPTACE #2	
CLASSROOM RECEPTACLES #4	1P	20A				17	0.54	1.2	18			20A	1P	SAWMILL PAVILION RECEPTACE #3	
RESTROOM RECEPTACLE	1P	20A				19	1.2	1.2	20			20A	1P	SAWMILL PAVILION RECEPTACE #4	
DRINKING FOUNTAIN	1P	20A				21	1.2	1.2	22			20A	1P	SAWMILL PAVILION RECEPTACE #5	
MECHELEC RECEPTACLE	1P	20A				23	1.2	1.2	24			20A	1P	EXTERIOR RECEPTACLE	
MECHELEC QUAD RECEPTACLE	1P	20A				25	1.2	0.49	26			20A	1P	CR/RR/MECHELEC	
EF-1	1P	20A				27	1.2	1.4	28			20A	1P	SAWMILL PAVILION EXTERIOR LIGHTS	
EXITEMERGENCY LIGHTS	1P	20A				29	0.1	3.6	30			30A	2P	LIBERTY PUMP	
SPARE	1P	20A				31	0.5		32			20A	2P	WELL PUMP	
SPARE	1P	20A				41	0.8		42			20A	2P	WELL PUMP	
SPARE	1P	20A				43			44			20A	2P	WELL PUMP	
SPARE	1P	20A				45			46			20A	1P	SPARE	
						47			48			20A	1P	SPARE	
TOTAL PHASE LOADS (KVA):						A	B								
TOTAL CONNECTED LOAD (KVA):						26.2	32.6								
TOTAL CONNECTED CURRENT (AMPS):						58.8									
						245.0									



ELECTRICAL DIAGRAM
NOT TO SCALE

- NOTES:**
- ALL CONDUCTOR SIZING IS BASED ON COPPER.
 - NOT ALL BRANCH CIRCUITS SHOWN. COORDINATE CIRCUITS WITH ALL EQUIPMENT REQUIREMENTS AND OWNER. MODIFY AS REQUIRED.
 - CONTRACTOR SHALL ENSURE ALL PANELS ARE PROPERLY INSTALLED AND ALL LOADS ARE BALANCED.



FOR BID
01-23-2026

NO.	DATE	DESCRIPTION



UNIVERSITY OF MAINE
DEMERRITT FOREST SAWMILL
OLD TOWN, MAINE
ELECTRICAL LIGHTING AND DIAGRAM
(ALTERNATE 3)

Drawn: AT
Checked: RB
Scale: AS NOTED
Date: 05-14-2024

Project No:
2023085

Sheet Number:

E2A

Jan 29, 2026 - 2:10pm
 H: \Projects\2023\2023085 UMaine DeMeritt Forest Sawmill-Classroom Old Town\Drawings\2023085 UM Sawmill_V18.dwg jonah



ATTIC FIRE PROTECTION PLAN (ALTERNATE 3)
 SCALE: 1/4" = 1'-0"

ELECTRICAL FIRE DEVICES LEGEND

- FACP** FIRE ALARM CONTROL PANEL
- ANN** FIRE ALARM ANNUNCIATOR
- H** HEAT DETECTOR, 135F (SYSTEM SENSOR: 5600 SERIES)
 200 = BOILER ROOM HEAT DETECTOR, 200F RATE OF RISE TYPE
- S** SMOKE DETECTOR (SYSTEM SENSOR: 5103 SERIES)
 D = DUCT SYSTEM SMOKE DETECTOR (SYSTEM SENSOR: INNOVAIR FLEX D2)
 SB = SOUNDER BASE
 LF-SB = LOW FREQUENCY SOUNDER BASE
- C** CARBON MONOXIDE DETECTOR (SYSTEM SENSOR: CO 1224)
- S/C/SB** COMBO SMOKE/CARBON MONOXIDE DETECTOR
 SB = SOUNDER BASE
- P** FIRE ALARM SYSTEM MANUAL PULL STATION, 48" A.F.F.
 (HONEYWELL: BG-12)
- F15** FIRE ALARM SYSTEM SPEAKER/STROBE, 80" A.F.F. UNLESS OTHERWISE INDICATED.
 CANDELA RATING AS REQUIRED (15, 30, 75, 110) (SYSTEM SENSOR: L SERIES)
- F30** FIRE ALARM SYSTEM STROBE ONLY, 80" A.F.F. UNLESS OTHERWISE INDICATED.
 CANDELA RATING AS REQUIRED (15, 30, 75, 110) (SYSTEM SENSOR: SPECTRALERT ADVANCE
 SERIES)
- F1c** FIRE ALARM SYSTEM HORN/STROBE - CEILING MOUNTED
- L** LOW FREQUENCY HORN STROBE
- STS** SPRINKLER SYSTEM TAMPER SWITCH, COORDINATE WITH SPRINKLER PLAN
- SFS** SPRINKLER SYSTEM FLOW SWITCH, COORDINATE WITH SPRINKLER PLAN
- SPS** SPRINKLER SYSTEM PRESSURE SWITCH, COORDINATE WITH SPRINKLER PLAN
- GD** GAS DETECTOR (MACURCO GD-2A)
- KNOXBOX** (KNOXBOX 3200), COORDINATE WITH ARCHITECT, OWNER, AND FIRE DEPARTMENT
- VRP** MACURCO - RD-VRP SERIES (VRF REFRIGERANT LEAK DETECTOR)
- EXIT** EXIT SIGN, CEILING/WALL MOUNTED, COORDINATE WITH LIGHTING PLAN
- EMERGENCY LIGHT** EMERGENCY LIGHT, WALL MOUNTED, COORDINATE WITH LIGHTING PLAN
- EXTERIOR EMERGENCY WALL MOUNTED LIGHT WITH 90 MIN. BACKUP** EXTERIOR EMERGENCY WALL MOUNTED LIGHT WITH 90 MIN. BACKUP
 COORDINATE WITH LIGHTING PLAN
- DOOR HOLDERS**
- EXIT** EXIT SIGN, UNIVERSAL MOUNT, COORDINATE WITH LIGHTING PLAN

FIRE PROTECTION GENERAL NOTES:

1. MODIFY EXISTING NFPA 13 SPRINKLER SYSTEM AS REQUIRED. PROVIDE HEAD ABOVE SUSPENDED CEILING AS WELL AS BELOW SUSPENDED CEILING.
2. CONTRACTOR MUST REVIEW DRAWINGS TO DETERMINE THE EXTENT OF THE FIRE PROTECTION SYSTEMS AND ASSOCIATED WORK. EXTRA COMPENSATION WILL NOT BE PAID FOR FAILURE TO VERIFY CONDITIONS.
3. CONTRACTOR SHALL COORDINATE THE SPRINKLER ELEVATIONS TO CORRESPOND WITH THE CEILING HEIGHT. COORDINATE WITH THE GENERAL CONTRACTOR AT NO ADDITIONAL COST.
4. THE DESIGN SHOWN ON THESE CONTRACT DOCUMENTS IS TO PROVIDE GUIDANCE FOR BIDDING AND TO OBTAIN APPROVAL OF THE AUTHORITY HAVING JURISDICTION. SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED TO THE OWNER'S DESIGNATED REVIEWER. BASE DESIGN UPON THESE DRAWINGS AND AS REQUIRED BY THE SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATIONS METHODS, MATERIAL DATA, AND ADDITIONAL INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. CONTRACTOR SHALL PROVIDE PIPE SIZE, SPRINKLER SPACING, AND SYSTEM CONFIGURATION AS SHOWN. ALTERNATES MUST BE APPROVED IN WRITING BY FIRE PROTECTION ENGINEER OF RECORD DOCUMENTS PRIOR TO BID.
5. COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS, INCLUDING PIPING, ALARMS, DRAINS, TEST POINTS, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. OBSTRUCTION TO SPRINKLER DISCHARGE MUST BE CONSIDERED DURING SHOP DRAWING PRODUCTION AND INSTALLATION. ADDITIONAL SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. SUBMIT A REQUEST FOR INFORMATION FOR QUESTIONS REGARDING THE FIRE PROTECTION DOCUMENTS.
7. PENETRATIONS OF "RATED ASSEMBLIES" SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL PER METHODS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
8. CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID.
9. CONTRACTOR MUST VERIFY ALL DROP DOWN LOCATIONS AT EXTERIOR WALLS WITH THE PROJECT MANAGER PRIOR TO INSTALLATION.
10. ALL PIPING MUST BE COORDINATED AROUND FRAMING MEMBERS AND PROPERLY INSTALLED INSIDE THE JOIST.
11. CONTRACTOR SHALL ROUTE PIPING AROUND ALL OBSTRUCTIONS AND PROVIDE SPRINKLER PROTECTION UNDER OBSTRUCTIONS, AS DETAILED IN NFPA #13 STANDARDS AS PART OF THE FIELD COORDINATION AT NO ADDITIONAL COST TO OWNER.
12. ALL SPRINKLER DEFLECTOR DISTANCE REQUIREMENTS SHALL BE IN ACCORDANCE TO THE STANDARDS OUTLINED IN NFPA #13.
13. ALL PIPING PASSING THROUGH CMU WALLS SHALL BE INSTALLED WITH ONE-INCH CLEARANCE ON ALL SIDES. (CORE DIAMETER-EQUAL TO PIPE +2"). ALL CORES SHALL BE COORDINATED WITH STRUCTURAL REINFORCING. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CORING WITH PROPER CLEARANCE AT ALL CMU WALLS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TWO-INCH CLEARANCE AROUND ALL PIPING PASSING THROUGH CONCRETE SLABS. THE SPRINKLER CONTRACTOR SHALL FILL ALL CLEARANCES WITH APPROVED FIRE SEALANT.
14. PENETRATIONS OF ASSEMBLIES SHALL BE FIRE STOPPED WITH APPROVED MATERIALS.
15. PROVIDE FLUSHING CONNECTIONS IN ACCORDANCE WITH THE STANDARDS OUTLINED IN NFPA #13.
16. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS.
17. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, ETC.
18. ARCHITECTURAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE CONTRACT DOCUMENTS FOR LOCATIONS, SIZES, AND QUANTITIES OF OTHER TRADE WORK.
19. COORDINATE SPRINKLER LOCATIONS WITH REFLECTIVE CEILING PLAN.
20. INTERFACE SPRINKLER SYSTEM WITH FIRE PROTECTION SYSTEM. CONTRACTOR SHALL PROVIDE ALL REQUIRED DEVICES TO ENSURE FULLY OPERATIONAL AND COMPLIANT SYSTEM.
21. ALL MATERIALS SHALL BE UL LISTED AND FM APPROVED. SPRINKLER PIPE SHALL BE MANUFACTURED TO STANDARDS RECOGNIZED BY NFPA #13. THREADED PIPE SHALL HAVE A CORROSION RESISTANCE RATING OF 1.0 OR GREATER. CRIMP-TYPE COUPLINGS SHALL NOT BE USED. THREADED THINWALL PIPE WITH CORROSION RESISTANCE RATING OF LESS THAN 1.0 SHALL BE USED ONLY WITH ROLL GROOVE FITTING.
22. ALL SPRINKLER SYSTEMS TO BE MODIFIED SHALL BE HYDROSTATICALLY TESTED PER NFPA #13 PRIOR TO SPRINKLER SYSTEM MODIFICATION AND SHALL BE RE-HYDROSTATICALLY TESTED AFTER COMPLETION OF WORK.
23. DO NOT HANG OR SUPPORT ANY LOADS OR MAKE ANY ATTACHMENTS TO THE ROOF DECK OR JOIST BRIDGING.
24. SAMMY SCREWS ARE NOT PERMITTED.
25. CEILING FLANGES ARE NOT PERMITTED.
26. PROVIDE RETAINING STRAPS ON HANGERS WHERE REQUIRED.
27. RUBBER INSULATORS REQUIRED AT ANY AND ALL ELECTRICAL/MECHANICAL/PLUMBING UNITS WHICH ATTACH TO ANY STRUCTURAL MEMBERS.
28. FIRE SPRINKLERS (SECTION 12.3.5)
 - MUST BE SUPERVISED (ALARMED TO A CONSTANTLY ATTENDED LOCATION) (TAMPER SWITCHES ON CONTROL VALVES)
 - MUST BE TIED INTO FIRE ALARM CONTROL PANEL
 - USE QUICK RESPONSE FIRE SPRINKLERS
 - MAKE SURE SPRINKLER HEADS ARE USED THAT ARE REQUIRED BY OWNER.
32. ALARMS
 - MUST HAVE SECONDARY POWER, GENERATOR WILL SUFFICE OR BATTERY BACKUP
 - MUST HAVE (1) SMOKE DETECTOR BY FIRE ALARM CONTROL PANEL (FACP) (SECTION 9.6.1.8)
33. CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS WHERE REQUIRED. CONFIRM ACTUAL LOCATIONS WITH AHJ.



CARPENTER ASSOCIATES
 CONSULTING ENGINEERS
 687 STILLWATER AVENUE-OLD TOWN-MAINE 04468

NO.	DATE	BY	DESCRIPTION				
				NO.	DATE	BY	DESCRIPTION



UNIVERSITY OF MAINE
DEMERITT FOREST SAWMILL
 OLD TOWN, MAINE
FIRE PROTECTION PLAN
 (ALTERNATE 3)

Drawn: JE
 Checked: RB
 Scale: AS NOTED
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 2023085
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