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SITE PLANS

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CIVIL COVER SHEET
OVERALL SITE PLAN
PARK ENTRANCE
ROAD & PARKING IMPROVEMENTS
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WINDOW + DOOR SCHEDULE
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GENERAL NOTES
MECHANICAL SCHEDULES
MECHANICAL GATEHOUSE PLAN

Wolfe's Neck Woods State Park

Project Information

- OWNER
- BGS PROJECT NUMBER

ARCHITECT

MAP/LOT

PROJECT ADDRESS

Project Team





BATHHOUSE DRAWING INDEX

ELECTRICAL PLANS

Kaplan Thompson Architects

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Department of Agriculture, Conservation and Forestry

Kaplan Thompson Architects

3510

Map 024, Lot 28B, Book 1857, Page 31

426 Wolfe's Neck Rd, Freeport, ME 04032



STRUCTURAL ENGINEER

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FUSS & O'NEILL

MECHANICAL & PLUMBING ENGINEER

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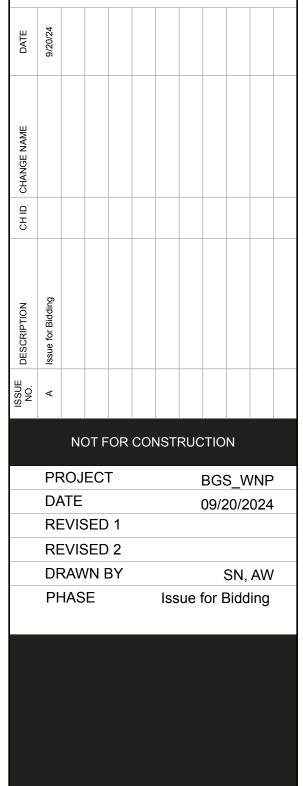
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PROJECT

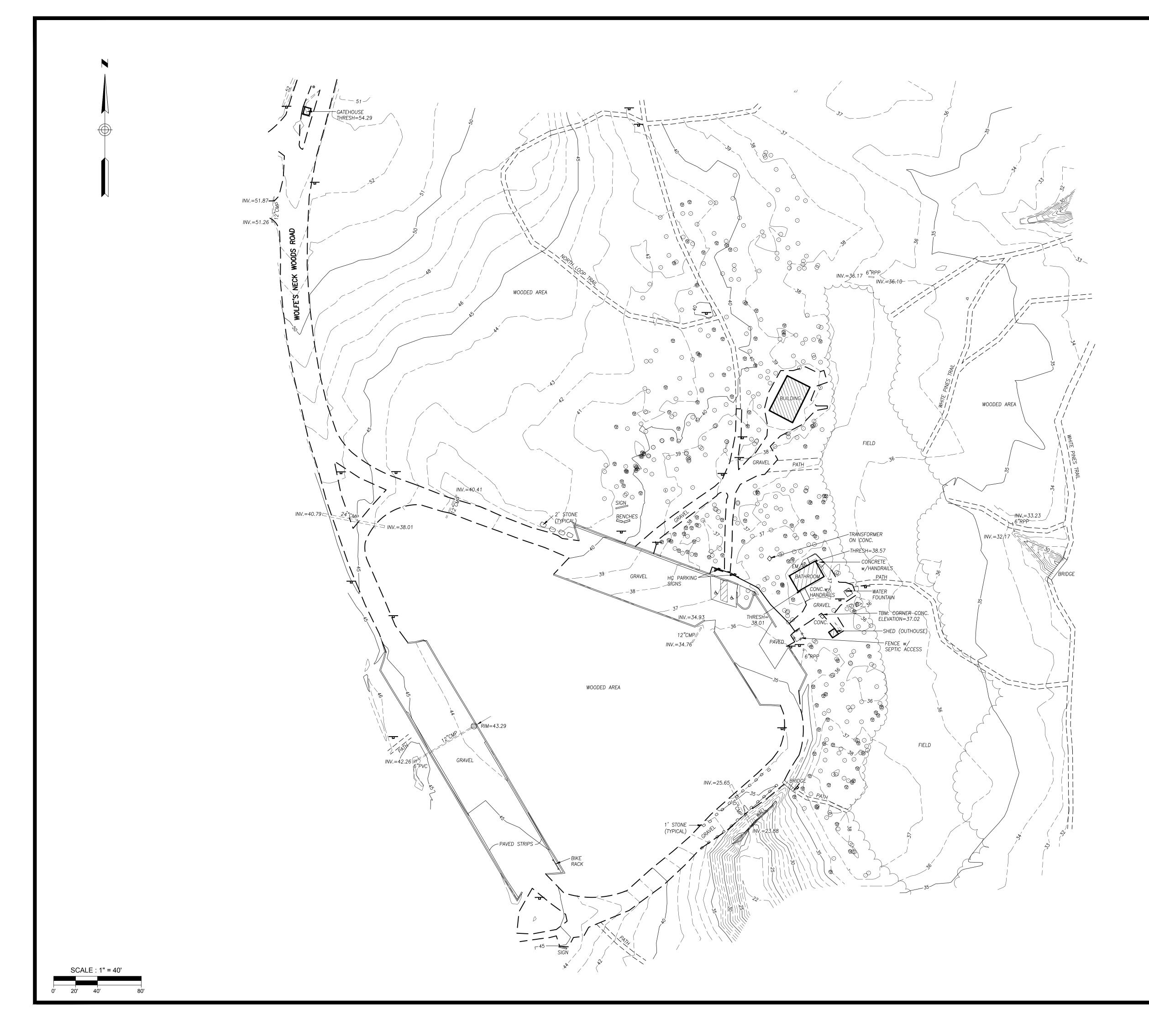
Wolfe's Neck Woods State Park Gatehouse

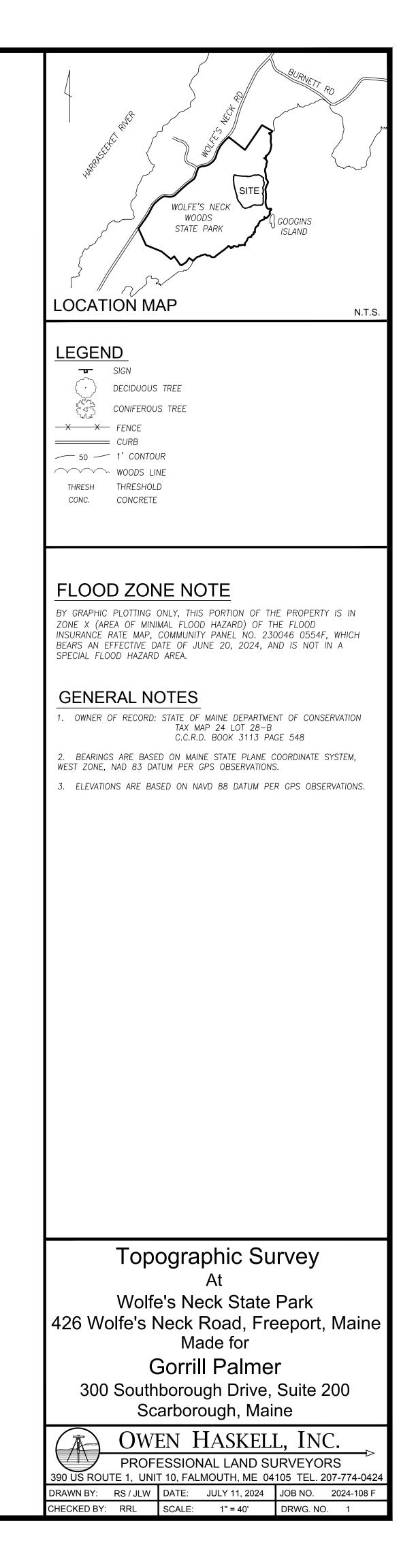
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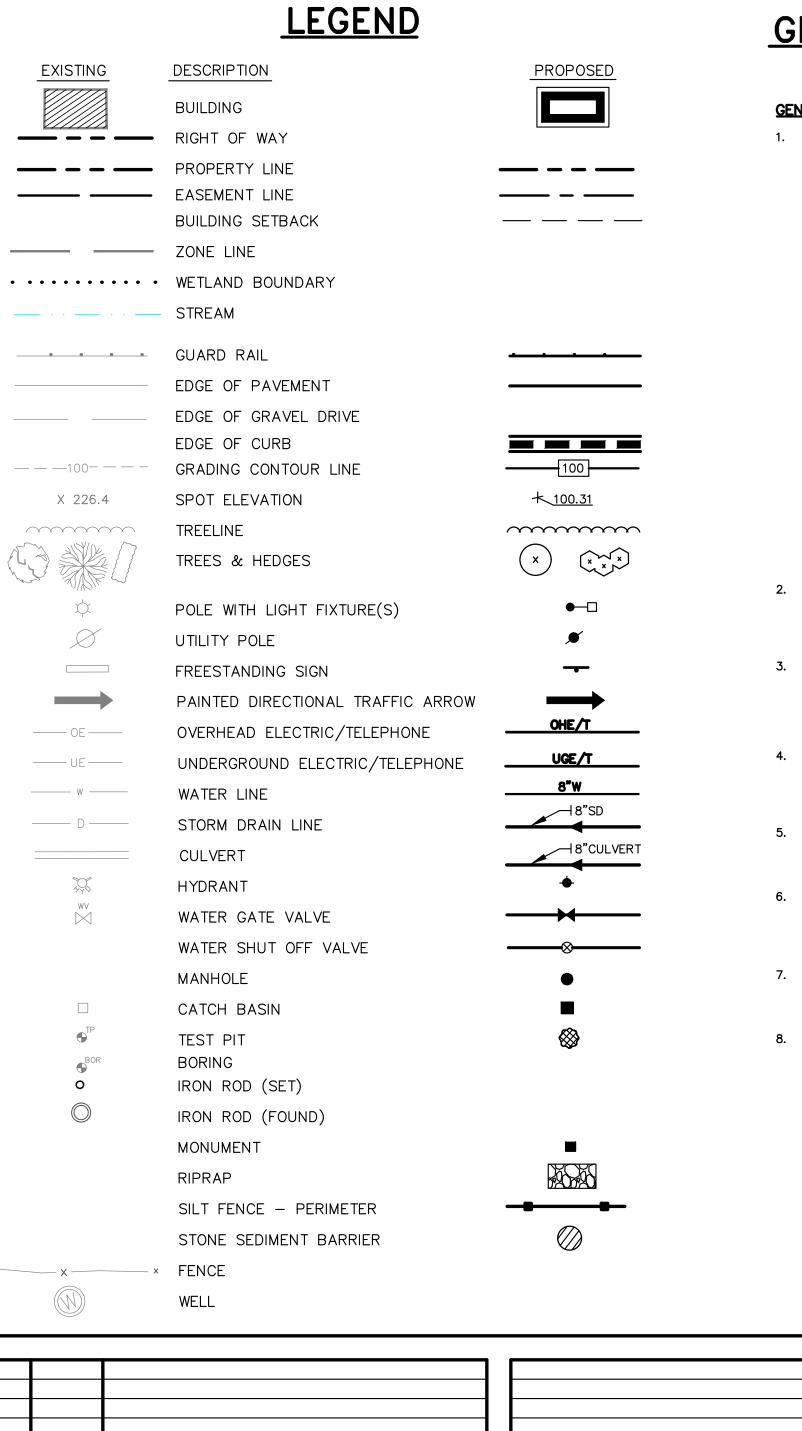


PROJECT COVER SHEET









GENERAL NOTES

GENERAL NOTES

- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION ACTIVITIES, ESTABLISHING ON-SITE LINES OF AUTHORITY AND COMMUNICATION, MONITORING SCHEDULES AND PROGRESS, MONITORING QUALITY, MAINTAINING RECORDS AND REPORTS AND IN GENERAL ASSURING THE PROPER ADMINISTRATION OF THE WORK. DISRUPTIONS AND INCONVENIENCES TO THE PROPERTY ABUTTERS DURING CONSTRUCTION SHALL BE MINIMIZED, AND SHALL BE SUBJECT TO THE PRIOR APPROVAL OF THE TOWN OF FREEPORT. THE CONTRACTOR SHALL COOPERATE WITH THE TOWN TO THE GREATEST EXTENT POSSIBLE. THE CONTRACTOR'S COOPERATIVE EFFORTS SHALL INCLUDE, BUT SHALL NOT NECESSARILY BE LIMITED TO:
- OF FREEPORT.
- AREAS ACCEPTABLE TO THE TOWN OF FREEPORT.
- C. ACCOMMODATING LOCAL RESIDENTS AND OTHER ON-GOING ACTIVITIES WITHIN AND ABOUT THE PROJECT. SUCH ACCOMMODATIONS SHALL INCLUDE, BUT SHALL NOT NECESSARILY BE LIMITED TO:
- C.1. PROVIDING ADEQUATE DIRT, DUST, FUME, VAPOR AND NOISE CONTROL C.2. SCHEDULING WORK WITHIN THE EXISTING ROADWAY AT TIMES ACCEPTABLE TO THE TOWN AND LEAST DISRUPTIVE TO ABUTTING PROPERTIES
- C.3. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THE WORK AS REQUIRED TO MAINTAIN THE SAFE AND FUNCTIONAL ACCESS TO WOLFE'S NECK WOODS ROAD DURING THE EXECUTION OF THE WORK. PRIOR TO PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL MEET WITH THE TOWN. ACCURATELY ASSESS THE TOWN'S REQUIREMENTS RELATIVE TO THE USE OF THE PROJECT AREA, AND SCHEDULE THE WORK ACCORDINGLY.
- 2. THE CONTRACTOR MUST CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE OWNER AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE OWNER.
- 4. ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
- 5. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL NECESSARY BARRICADES, LIGHTS, WARNING SIGNS AND OTHER DEVICES TO SAFEGUARD TRAFFIC PROPERLY WHILE WORK IS IN PROGRESS FOR THE DURATION OF THE PROJECT.
- 6. ALL WORK COMPLETED UNDER THIS CONTRACT SHALL BE GOVERNED BY AND BE IN CONFORMITY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (MARCH 2020 EDITION) AND STANDARD DETAILS (MARCH 2020) EXCEPT AS MODIFIED BY THE PLANS OR SPECIFICATIONS OR SPECIAL PROVISIONS.
- 7. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
- 8. CONTRACTOR SHALL MAINTAIN AT LEAST ONE-WAY TRAFFIC AT ALL TIMES.

	Issued for Bidding	9/20/24	WCH
	Issued For	Date	By

Revision

Date

Wolfe's Neck Woods State Park

Wolfe's Neck Road, Freeport

PREPARED BY:



Relationships. Responsiveness. Results. www.gorrillpalmer.com 207.772.2515

- A. STORING ON-SITE MATERIALS IN LOCATIONS ACCEPTABLE TO THE TOWN
- B. CONTROLLING CONSTRUCTION PARKING AND TRAFFIC AND LIMITING IT TO
- 9. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
- PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR 10. SHALL INSTALL THE PERIMETER EROSION CONTROL BMPs.
- SILT SHALL NOT BE FLUSHED INTO THE ADJACENT WETLANDS OR WATER 11. COURSES.
- SILT FENCES SHALL BE INSPECTED, REPAIRED AND CLEANED AS NECESSARY
- 13. THE CONTRACTOR IS CAUTIONED THAT FAILURE TO COMPLY WITH THE SEQUENCE OF CONSTRUCTION, EROSION/SEDIMENT CONTROL PLAN, AND OTHER PERMIT REQUIREMENTS MAY RESULT IN MONETARY PENALTIES. THE CONTRACTOR SHALL BE ASSESSED ALL SUCH PENALTIES AT NO COST TO THE OWNER.
- 14. ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDED, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- 15. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIAL OFF SITE IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL **REGULATIONS.**
- 16. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM WITH APPLICABLE FEDERAL, STATE, AND TOWN OF FREEPORT CODES AND SPECIFICATIONS

7.	COMPACTION REQUIREMENTS:	
	LOCATION	MINIMUM COMPACTION*
	BELOW PAVED OR GRAVEL AREAS BELOW VEGETATED AREAS	95% 90%

- 18. IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELF WITH THE EXISTING CONDITIONS PRIOR TO BIDDING.
- *ALL PERCENTAGES OF COMPACTION SHALL BE OF MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557
- TEMPORARY EROSION CONTROL MEASURES
- SILTATION FENCE SHALL BE INSTALLED DOWNSTREAM OF ANY DISTURBED AREAS TO TRAP RUNOFF- BORNE SEDIMENTS UNTIL GRASS AREAS ARE REVEGETATED. THE SILT FENCE SHALL BE INSTALLED PER THE DETAILS PROVIDED ON THIS PLAN AND INSPECTED BEFORE AND IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIRS SHALL BE MADE IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THE FENCE LINE. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THE FENCE, THE BARRIER SHALL BE REPLACED WITH A STONE CHECK DAM.
- FOR WORK, WHICH IS CONDUCTED BETWEEN SEPTEMBER 15TH AND APRIL 2. 15TH OF ANY CALENDAR YEAR, ALL DENUDED AREAS, SHALL BE COVERED WITH HAY MULCH OR EROSION CONTROL MIX, APPLIED AT TWICE THE NORMAL APPLICATION RATE AND ANCHORED WITH A FABRIC NETTING. THE TIME PERIOD FOR APPLYING MULCH SHALL BE LIMITED TO 7 DAYS FOR ALL AREAS.
- SILT FENCING WITH A MINIMUM STAKE SPACING OF 6 FEET SHOULD BE USED, UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT OF MINIMUM 14 GAUGE AND WITH A MAXIMUM MESH SPACING OF 6 INCHES, IN WHICH CASE STAKES MAY BE SPACED A MAXIMUM OF 10 FEET APART. THE BOTTOM OF THE FENCE SHOULD BE ANCHORED.
- WATER AND/OR CALCIUM CHLORIDE SHALL BE FURNISHED AND APPLIED IN ACCORDANCE WITH MDOT SPECIFICATIONS - SECTION 637 - DUST CONTROL.
- LOAM AND SEED IS INTENDED TO SERVE AS THE PRIMARY PERMANENT 5. REVEGETATIVE MEASURE FOR ALL DENUDED AREAS NOT PROVIDED WITH OTHER EROSION CONTROL MEASURES, SUCH AS RIPRAP.

STANDARDS FOR TIMELY STABILIZATION OF CONSTRUCTION SITES

THE CONTRACTOR SHALL STABILIZE THE DISTURBED SLOPES WITH LOAM AND SEED AND EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC150 OR APPROVED EQUIVALENT,) INSTALLED AND ANCHORED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

IMPLEMENTATION SCHEDULE

THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE REQUIRED TO INSURE THE EFFECTIVENESS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE OPTIMIZED:

FOR ALL GRADING ACTIVITIES, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO OVEREXPOSE THE SITE BY LIMITING THE DISTURBED AREA.

INSTALL PERIMETER SILT FENCE IN WORK AREAS.

BEGIN DEMOLITION.

CLEAR AND GRUB SITE WHERE APPLICABLE.

COMMENCE EARTHWORK TO BASE GRAVEL GRADE.

INSTALL BASE COURSE AND FINISH COURSE PAVING VEGETATE AND STABILIZE DISTURBED AREAS

ONCE THE SITE IS STABILIZED AND A 90% CATCH OF VEGETATION HAS BEEN

OBTAINED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES. TOUCH UP ERODED AREAS.

NOTE: ALL DENUDED AREAS NOT SUBJECT TO FINAL PAVING, RIPRAP, OR GRAVEL; SHALL BE REVEGETATED.

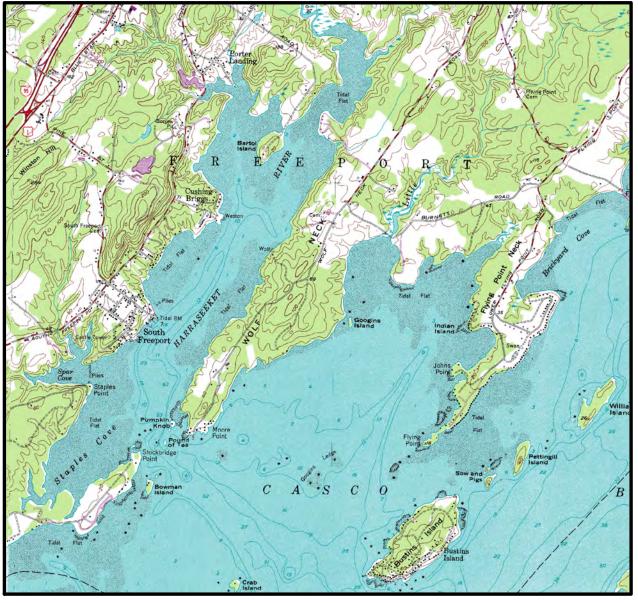
REFERENCE PLAN:

EXISTING CONDITIONS INFORMATION TAKEN FROM "TOPOGRAPHIC SURVEY AT WOLFE'S NECK STATE PARK - PREPARED BY OWEN HASKELL, INC. DATED JULY 29, 2024."

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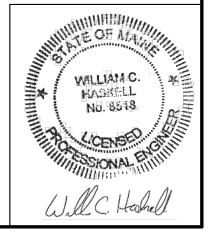


LOCATION MAP N.T.S.

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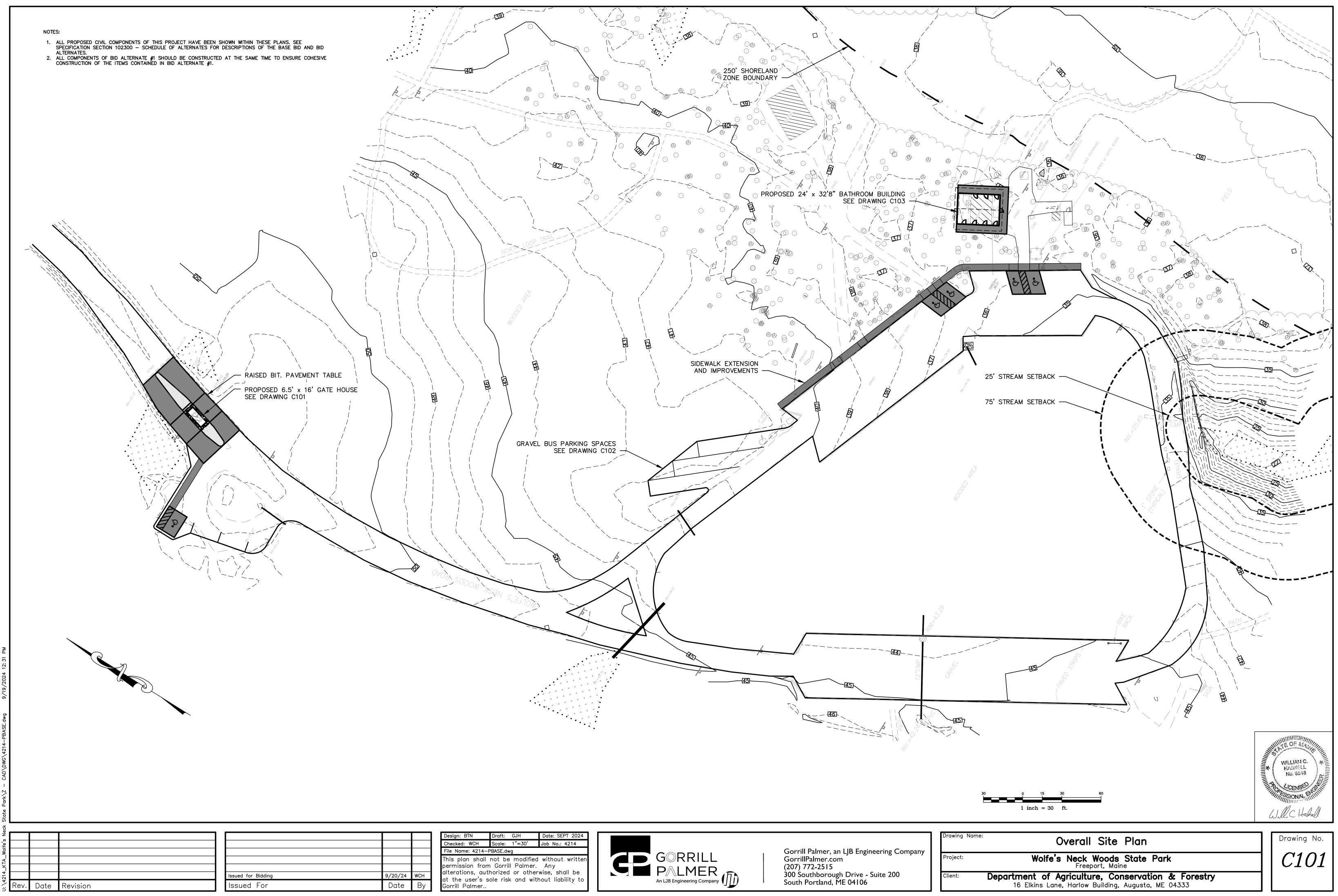
C100 COVER SHEET, GENERAL NOTES, & LEGEND C101 OVERALL SITE PLAN C102 PARK ENTRANCE C103 ROAD & PARKING LOT IMPROVEMENTS C104 BATHHOUSE IMPROVEMENTS C20' SITE DETAILS C202 UTILITY AND DRAINAGE DETAILS C203 EROSION CONTROL DETAILS

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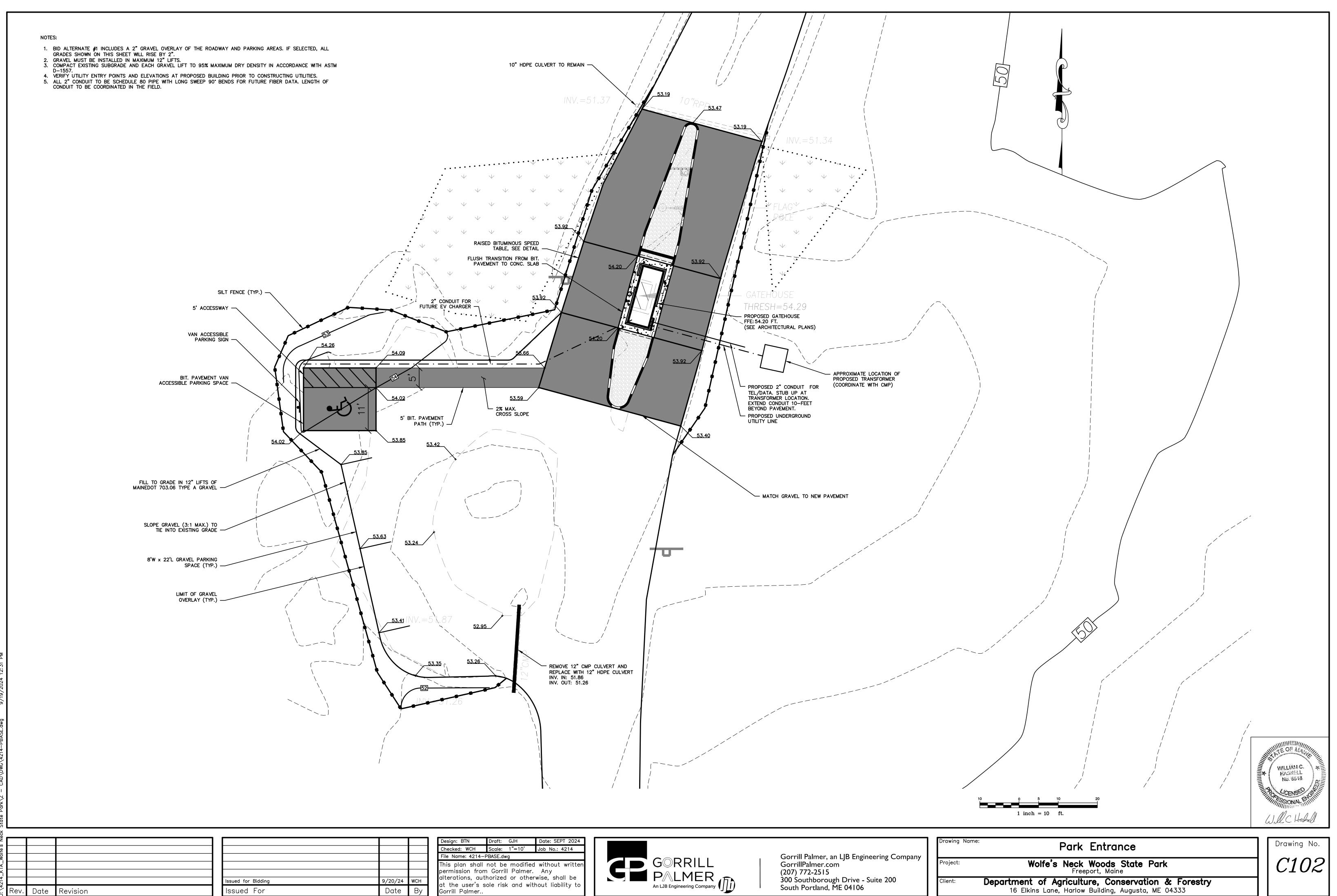


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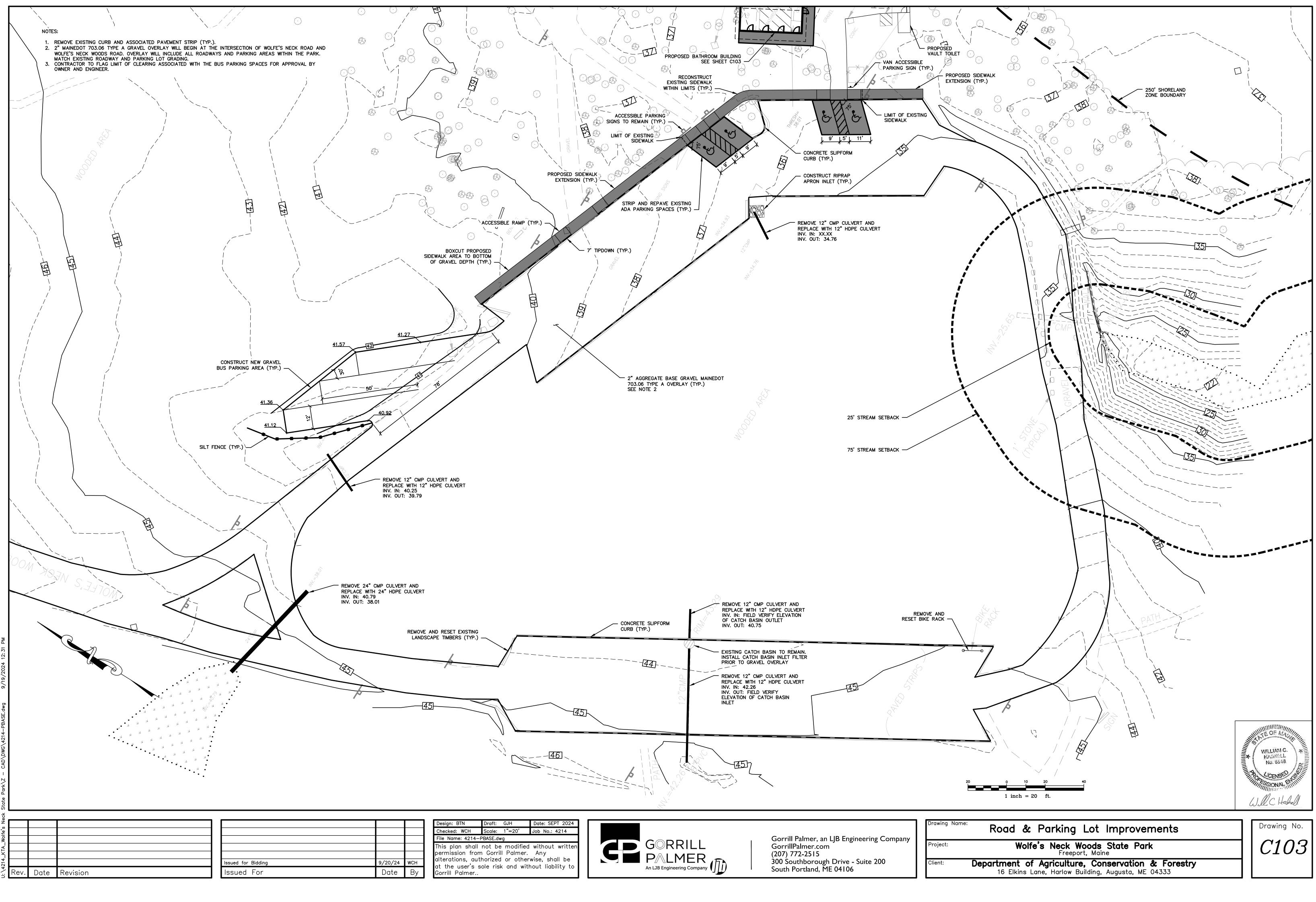
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Project:	Wolfe's Neck Woods State Park Freeport, Maine
Client:	Department of Agriculture, Conservation & Forestry 16 Elkins Lane, Harlow Building, Augusta, ME 04333

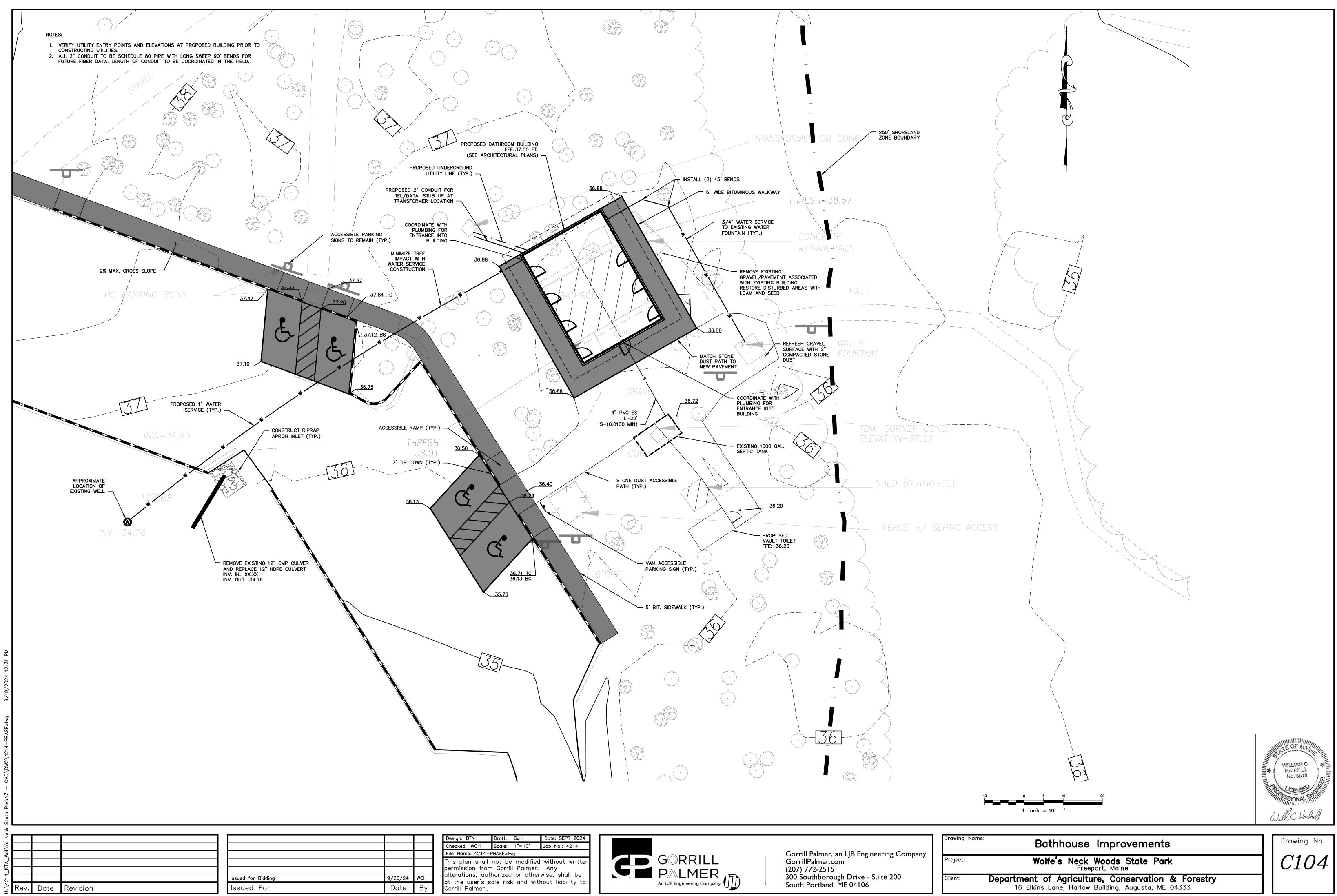


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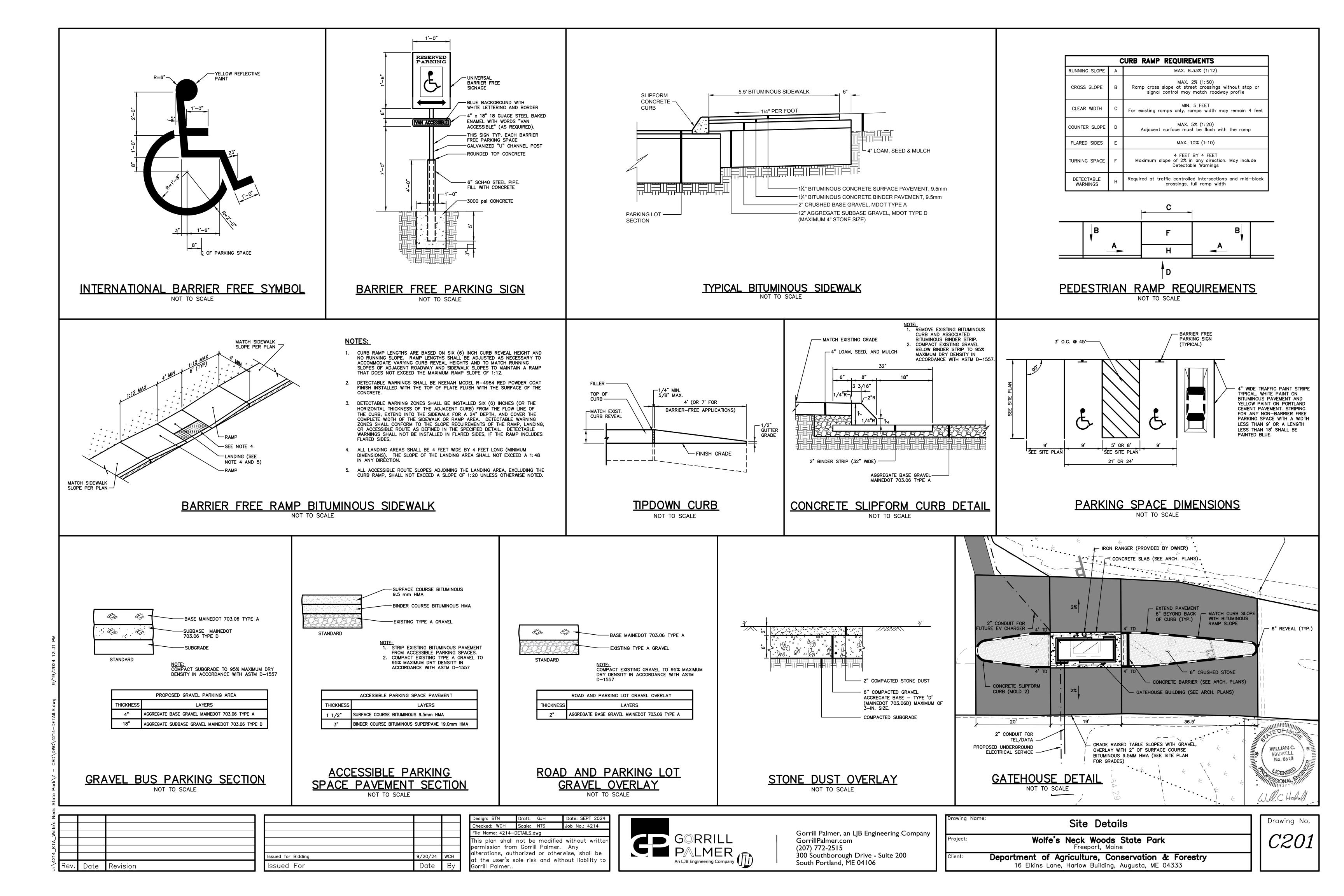


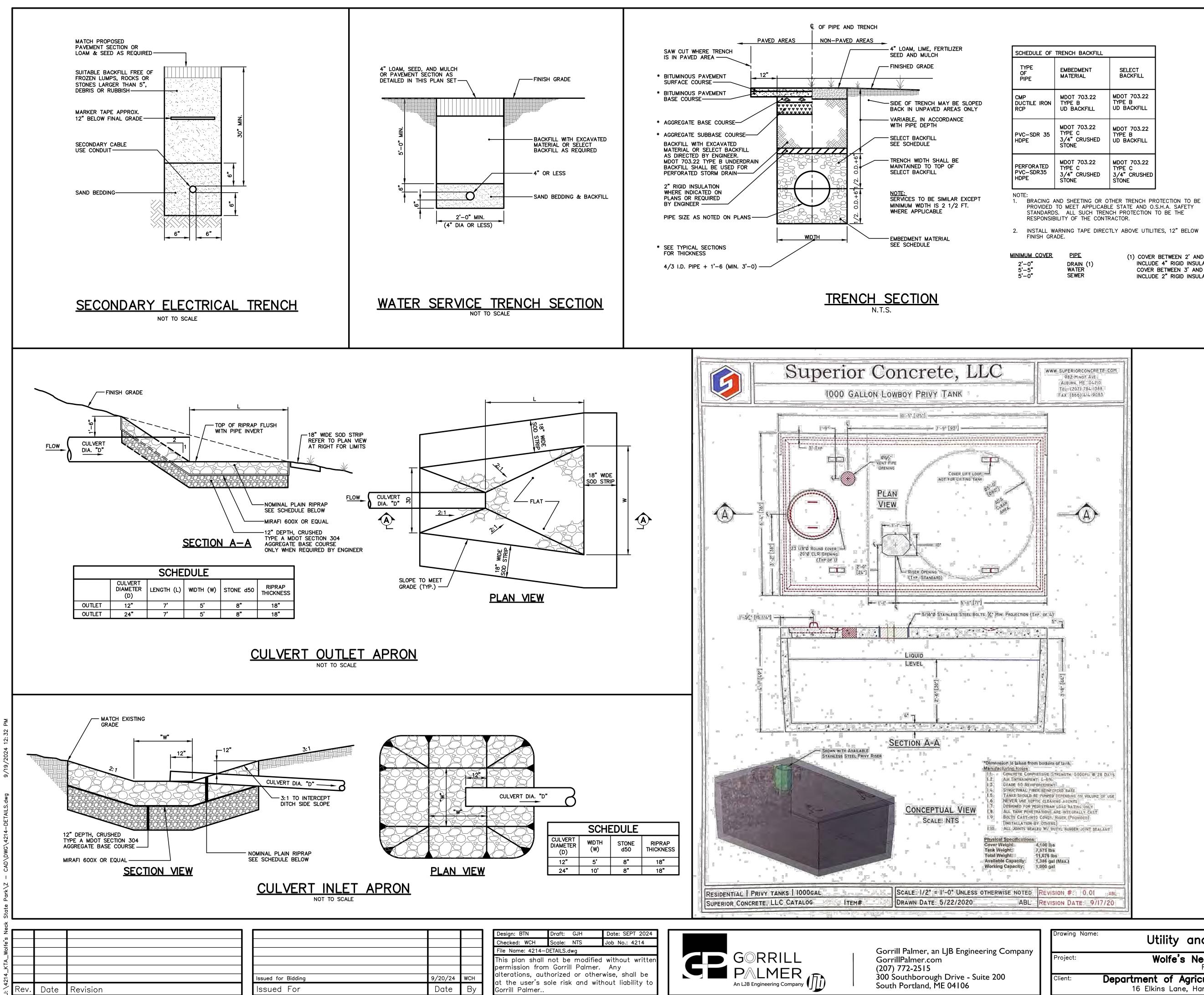
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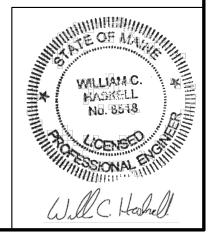
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JLE OF	ILE OF TRENCH BACKFILL						
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DR 35	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL					
RATED DR35	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE					

PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE

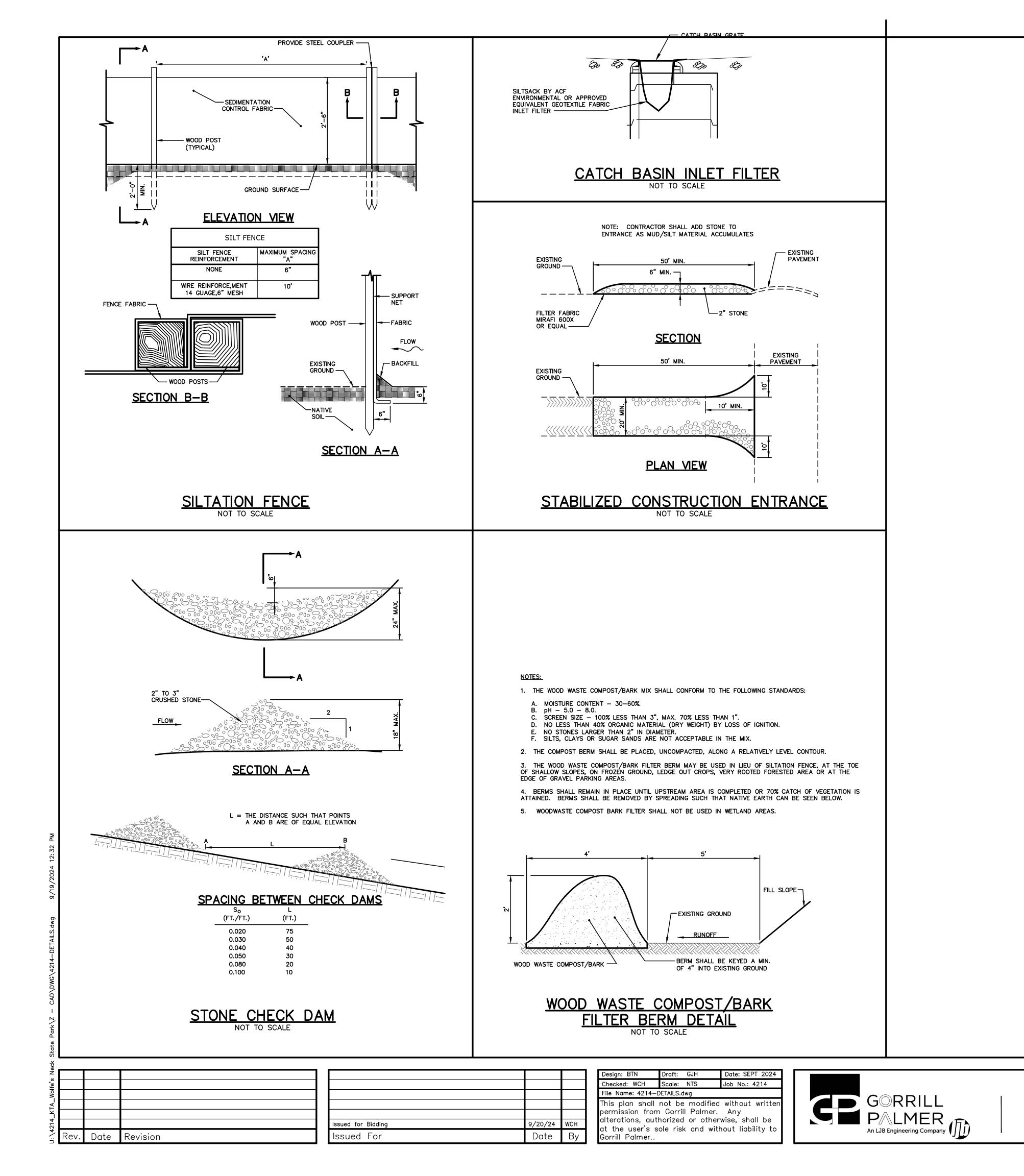
2. INSTALL WARNING TAPE DIRECTLY ABOVE UTILITIES, 12" BELOW

(1) COVER BETWEEN 2' AND 3' SHALL INCLUDE 4" RIGID INSULATION. COVER BETWEEN 3' AND 4' SHALL INCLUDE 2" RIGID INSULATION.

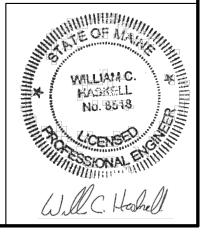


	Drawing No.
Wolfe's Neck Woods State Park Freeport, Maine	C202
ent of Agriculture, Conservation & Forestry Elkins Lane, Harlow Building, Augusta, ME 04333	

Wolfe's Neck Wood Freeport, Department of Agriculture, 16 Elkins Lane, Harlow Buildi



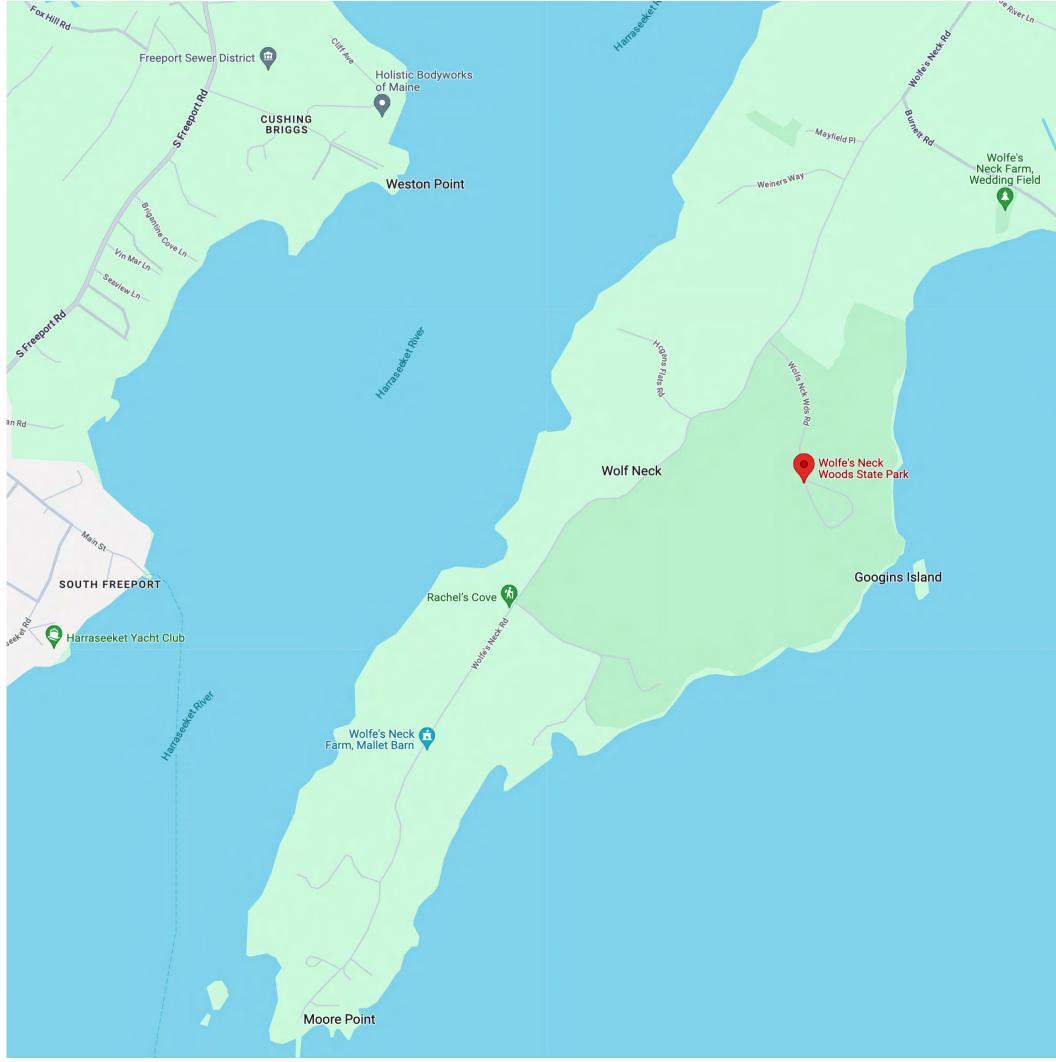
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C20)3

Drawing Name	Erosion Control Details	Dra
Project:	Wolfe's Neck Woods State Park Freeport, Maine	C
Client:	Department of Agriculture, Conservation & Forestry 16 Elkins Lane, Harlow Building, Augusta, ME 04333	





FREEPORT, MAINE

Wolfe's Neck Woods State Park Gatehouse

Project Information

Department of Agriculture, Conservation and Forestry CLIENTS 3510 BGS PROJECT NUMBER Kaplan Thompson Architects ARCHITECT TBD CONTRACTOR Map 024, Lot 28B, Book 1857, Page 31

MAP/LOT

PROJECT ADDRESS

Zoning Information

Rural Residential II - RR2 / Shoreland Overlay ZONING 35'-0" MAX. BUILDING HEIGHT IBC 2015, IMC 2015, UPC 2015, MUBEC+IECC 2021 **BUILDING CODE** Open Space OCCUPANCY

Proposed Structure

UTILITY - Park Entrance Booth PROPOSED OCCUPANCY: PROPOSED BUILDING HEIGHT: 10'-2" PROPOSED GROSS SF: 104 SF

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CATEHOLISE DRAWING INDEX

426 Wolfe's Neck Rd, Freeport, ME 04032

Kaplan Ihompson Architects

102 Exchange Stree Portland, ME 04101 (207) 842-2888 kaplanthompson.com

PROJECT

Wolfe's Neck Woods State Park Gatehouse

426 Wolfe's Neck Road Freeport, ME 04032

CIVIL ENGINEER Gorrill Palmer 300 Southborough Drive, Suite 200 South Portland, ME 04106 p: 207-772-2515

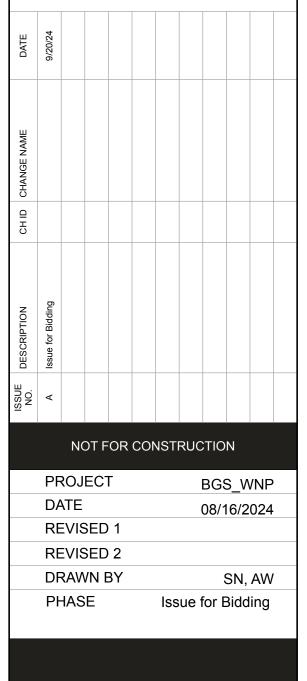
LANDSCAPE ARCHITECT **Richardson Associates** 11 Middle Street Saco, ME 04072 p: 207 286-9291

STRUCTURAL ENGINEER
Trillium Engineering Group 189 Main Street, Suite 200 Yarmouth, ME 04096 p: 207 307-0872

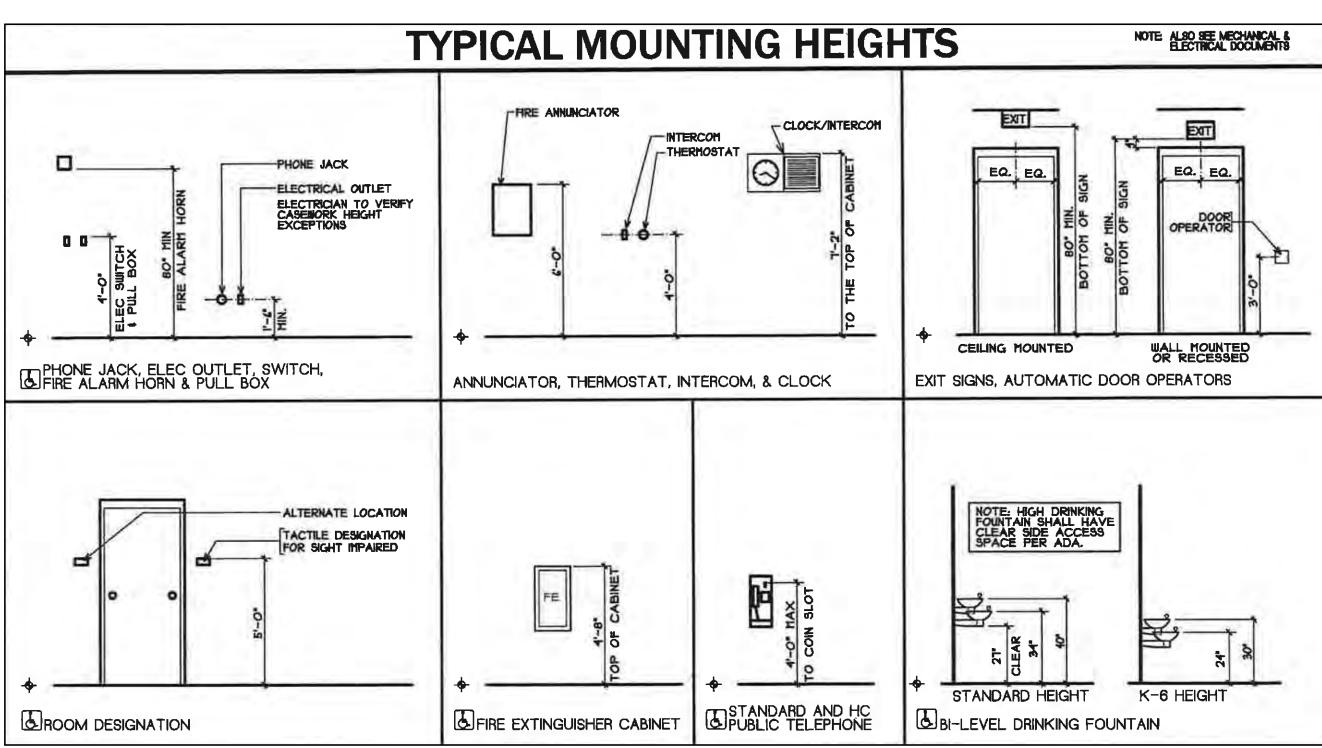
MECHANICAL & PLUMBING ENGINEER Fuss & O'Neill 115 Broad Street 6th Floor Boston, MA 02110 p: 617 674-5234

ELECTRICAL ENGINEER Swiftcurrent Engineering Services, Inc. 10 Forrest Falls Drive Yarmouth, ME 04096 p: 207 847-9280





COVER SHEET



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General Notes:

1. General contractor shall verify all dimensions and report any discrepancies to the architect before proceeding with work. Do not scale drawings. Work from dimensions only.

2. All masonry dimensions are nominal and are to face of masonry. All partition dimensions are to face of stud except where noted.

3. Provide appropriate reinforcing within partitions for support of all grab bars, shelving brackets, cabinets, door frames, water coolers, lockers, fire extinguishers, cork boards, writing boards, exterior lighting, siding, hose bibs, bells, and all other wall mounted equipment or appliances indicated in documents.

4. All door frames shall be located a minimum of 3" off adjoining walls except where noted or dimensioned otherwise. 4" masonry at masonry veneer walls.

8. Before penetrating or otherwise modifying joists, beams, or other structural members consult with the architect/structural engineer on maximum size and location.

9. Concrete slabs shall slope to floor drains for positive drainage. Verify with water test. Coordinate location of floor drains with mechanical

10. Provide double wood studs at all door frames in wall assemblies.

12. All materials in this building shall be new and not previously used unless approved by architect.

13. All penetrations through Fire & Smoke Rated walls and floor /ceiling assemblies shall be fire-stopped by specific subcontractor requiring penetration.

14. All penetrations through Air Barriers shall be air sealed by specific subcontractor requiring penetration.

15. Access panels shall be fire rated where wall is fire rated.

17. A 'construction permit' from the state fire marshall's office is required for this project. To be completed by architect.

18. It is the Contractors responsibility to ensure all electircal and plumbing and mechanical permits and inspections are performed.

LEGEND (ARCHITECTURAL DRAWINGS)								
	٨	WINDOW TYPE		COMPACTED GRAVEL				
BUILDING SECTION NUMBER	(A)	COLUMN GRID LINE		CONCRETE				
	2	EQUIPMENT REFERENCE	7///////	BRICK				
	\wedge	REVISION		CONCRETE MASONRY UNITS				
SHEET NO. WHERE SHOWN		POWER PANEL IN WALL	2222	FINISH WOOD				
INTERIOR ELEVATION NUMBER	FEC	FIRE EXTINGUISHER SEMI RECESSED/RECESSED		ROUGH WOOD				
3 SHEET NO, WHERE SHOWN	FEC	FIRE EXTINGUISHER SURFACE MOUNTED	*****	FIBERGLASS BATT INSULATION				
ROOM FINISH KEY	TEL-P	PAY TELEPHONE		RIGID INSULATION				
101.1 DOOR NUMBER { RM * 101 DOOR * 1	DF	DRINKING FOUNTAIN		SUSPENDED ACOUSTICAL PANEL				
]			RADIANT HEAT MANIFOLD				

Concrete Notes:

1. ALL WORK SHALL CONFORM TO IBC 2015 REFERENCED EDITIONS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).

2. REQUIRED CONCRETE PARAMETERS ARE AS FOLLOWS:

LOCATION	MAX W/C RATIO	fc	AIR-ENTRAINMENT
FOUNDATIONS, FOOTINGS,		0.500 001	50/ 4.4/00/
& FOUNDATION WALLS	.45	3,500 PSI	<u>5% ± 1 1/2%</u>
-INT. SLAB ON CRADE	.45	3,000 PSI	<u> 2% ± 1 1/2%</u>
EXT. SLAB-ON-GRADE	.45	4,500 PSI	5% ± 1 1/2%

WHERE: W/C = WATER TO CEMENT RATIO AND fc = COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS

USE PORTLAND CEMENT TYPE IL, IN CONFORMANCE WITH ASTM 150

AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C 260 ADMIXTURES SHALL CONFORM TO ASTM C 494 FLY ASH USED AS ADMIXTURES SHALL CONFORM TO ASTM C 618

3. MAXIMUM AGGREGATE SIZE SHALL BE 3/4", IN CONFORMANCE WITH ASTM C33.

4. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE IS NOT PERMITTED

5. MAXIMUM SLUMP AFTER THE ADDITION OF A WATER-REDUCING ADMIXTURE IS 6 INCHES.

6. CONTRACTOR SHALL NOT PLACE CONCRETE ON FROZEN GROUND OR IN WATER. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING NEAR-FREEZING OR FREEZING WEATHER. REFERENCE ACI 306, AS NOTED ABOVE, FOR RECOMMENDATIONS FOR COLD WEATHER CONCRETING.

7. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL NOT EXCEED A SPACING OF 40 FEET, U.N.O.

ANCHOR BOLTS SHALL BE HEADED RODS AND CONFORM TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, U.N.O. ON DRAWINGS. PROVIDE GALVANIZED ANCHOR BOLTS WHERE IN CONTACT WITH PRESSURE TREATED LUMBER.

9. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS.

10. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 AND BE PROVIDED IN FLAT SHEETS. PROVIDE ADEQUATE SUPPORT FOR WWF TO ENSURE PROPER LOCATION WITHIN SLAB DURING CONCRETE PLACEMENT.

11. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS: A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 INCHES B. FORMED CONCRETE IN CONTACT WITH EARTH OR EXPOSED TO WEATHER 2 INCHES C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER IN SLABS & WALLS 11/2 INCHES

12. WELDING OF REINFORCEMENT IS NOT PERMITTED.

13. PROVIDE NON-SHRINK GROUT BENEATH LEVELING PLATES & BEARING PLATES w/ MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS.

14. PROVIDE CONTINUOUS REINFORCEMENT AT ALL CORNERS AND INTERSECTIONS, SEE TYPICAL FOUNDATION WALL DETAILS ON FOUNDATION DETAILS SHEET.

15. REINFORCING BARS AND ALL EMBEDDED ITEMS, INCLUDING ANCHOR BOLTS, MUST BE ACCURATELY PLACED AND ADEQUATELY SECURED BEFORE CONCRETE IS PLACED. "WET SETTING" OF STEEL COLUMN ANCHOR BOLTS INTO CONCRETE IS STRICTLY PROHIBITED.

16. UNLESS NOTED ON DRAWINGS, FOLLOW ACI STANDARDS FOR LAP SPLICE LENGTHS OF REINFORCING BARS.

REBAR LAP SPLICE TABLE								
BAR SIZE #3 #4 #5 #6 #7 #8 #9								
3000 & 3500 PSI CONCRETE	18"	24"	30"	36"	48"	56"	64"	
4500 PSI CONCRETE	16"	20"	24"	30"	40"	48"	54"	

FOUNDATION NOTES:

1. FOUNDATIONS HAVE BEEN DESIGNED USING A PRESUMED ALLOWABLE BEARING PRESSURE PER TABLE 1806.2 OF THE INTERNATIONAL BUILDING CODE BASED ON TYPICAL SOILS FOUND IN THIS AREA. IF CLAY, MUD, ORGANIC SILT, PEAT OR UNPREPARED FILL IS FOUND DURING CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY, AS THE ALLOWABLE LOADS USED IN DESIGN WILL NEED TO BE VERIFIED BY A GEOTECHNICAL ENGINEER. TRILLIUM ENGINEERING GROUP RECOMMENDS PROCURING A GEOTECHNICAL ENGINEER TO VERIFY EXISTING SOIL CONDITIONS.

2. ALLOWABLE SOIL BEARING CAPACITY USED IN DESIGN = 2,000 PSF

3. EXCAVATION, BACKFILL, COMPACTION, GRADATION REQUIREMENTS, FOUNDATION DRAINAGE AND PERMANENT DEWATERING REQUIREMENTS SHALL BE PROVIDED BY A GEOTECHNICAL ENGINEER.

4. CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED ON A MINIMUM 12" THICK LAYER OF PROPERLY COMPACTED STRUCTURAL FILL, UNLESS OTHERWISE DIRECTED BY A GEOTECHNICAL ENGINEER.

5. FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL AND STRUCTURAL ENGINEER IF ANY UNSUITABLE SOILS ARE ENCOUNTERED PRIOR TO PLACING FOUNDATIONS.

6. FOUNDATION WALLS AND SLAB -ON-GRADES SHALL REACH THEIR FULL 28 DAY COMPRESSIVE STRENGTH PRIOR TO BACKFILLING. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING/BRACING FOR WALLS WHEN BACKFILL IS PLACED PRIOR TO CONCRETE ACHIEVING ITS FULL 28 DAY STRENGTH. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING/BRACING FOR WALLS AND OTHER STRUCTURAL ELEMENTS PRIOR TO INSTALLATION OF PERMANENT BRACING/FLOOR/STRUCTURE.

7. PROTECT FOUNDATIONS FROM FROST AND KEEP BOTTOM OF TRENCH DRY DURING CONSTRUCTION. IF GROUNDWATER IS ENCOUNTERED NEAR OR ABOVE THE BASE OF THE FOOTINGS, EXCAVATIONS SHALL BE DEWATERED DURING CONSTRUCTION. SURFACE WATER SHALL BE DIVERTED AWAY FROM EXCAVATIONS.

8. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ADJACENT STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING, BRACING AND UNDERPINNING OF EXISTING STRUCTURES DURING EXCAVATION, BACKFILLING, AND CONSTRUCTION. CONTRACTOR SHALL SLOPE EXCAVATIONS TO ACHIEVE SOIL STABILITY.

Kaplan Thompson Architects

102 Exchange Street Portland, ME 04101 (207) 842-2888 kaplanthompson.com

PROJECT

Wolfe's Neck Woods State Park Gatehouse

426 Wolfe's Neck Road Freeport, ME 04032

CIVIL ENGINEER Gorrill Palmer 300 Southborough Drive, Suite 200 South Portland, ME 04106 p: 207-772-2515

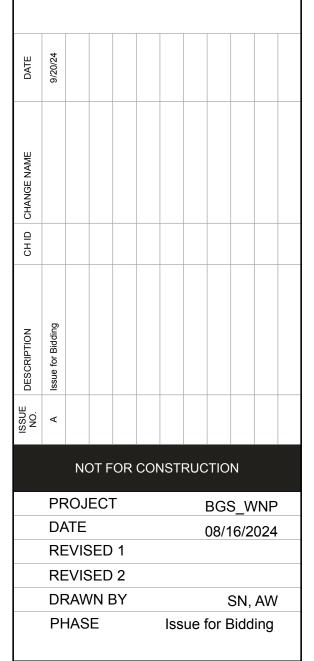
LANDSCAPE ARCHITECT **Richardson Associates** 11 Middle Street Saco, ME 04072 p: 207 286-9291

STRUCTURAL ENGINEER Trillium Engineering Group 189 Main Street, Suite 200 Yarmouth, ME 04096 p: 207 307-0872

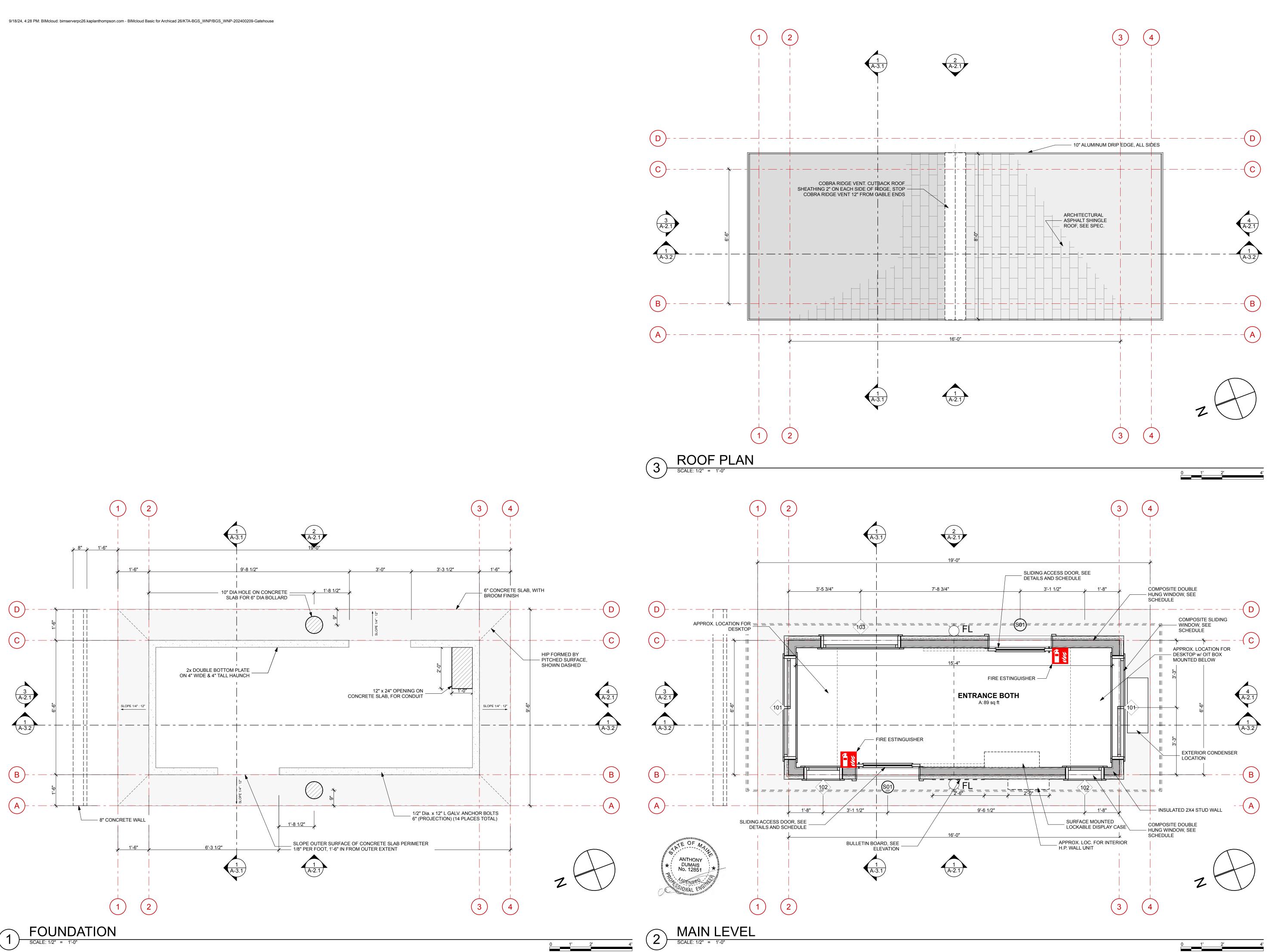
MECHANICAL & PLUMBING ENGINEER Fuss & O'Neill 115 Broad Street 6th Floor Boston, MA 02110 p: 617 674-5234

ELECTRICAL ENGINEER Swiftcurrent Engineering Services, Inc. 10 Forrest Falls Drive Yarmouth, ME 04096 p: 207 847-9280









Woods State Park Gatehouse 426 Wolfe's Neck Road Freeport, ME 04032 **CIVIL ENGINEER** Gorrill Palmer 300 Southborough Drive, Suite 200 South Portland, ME 04106 p: 207-772-2515 LANDSCAPE ARCHITECT Richardson Associates 11 Middle Street Saco, ME 04072 p: 207 286-9291 STRUCTURAL ENGINEER Trillium Engineering Group 189 Main Street, Suite 200 Yarmouth, ME 04096 p: 207 307-0872 MECHANICAL & PLUMBING ENGINEER Fuss & O'Neill 115 Broad Street 6th Floor Boston, MA 02110 p: 617 674-5234 ELECTRICAL ENGINEER Swiftcurrent Engineering Services, Inc. 10 Forrest Falls Drive Yarmouth, ME 04096 p: 207 847-9280 DARC NOT FOR CONSTRUCTION PROJECT BGS_WNP DATE 9/20/24 **REVISED 1 REVISED 2** DRAWN BY SN, AW PHASE Issue for Bidding

FOUNDATION, MAIN LEVEL & ROOF FLOOR PLANS

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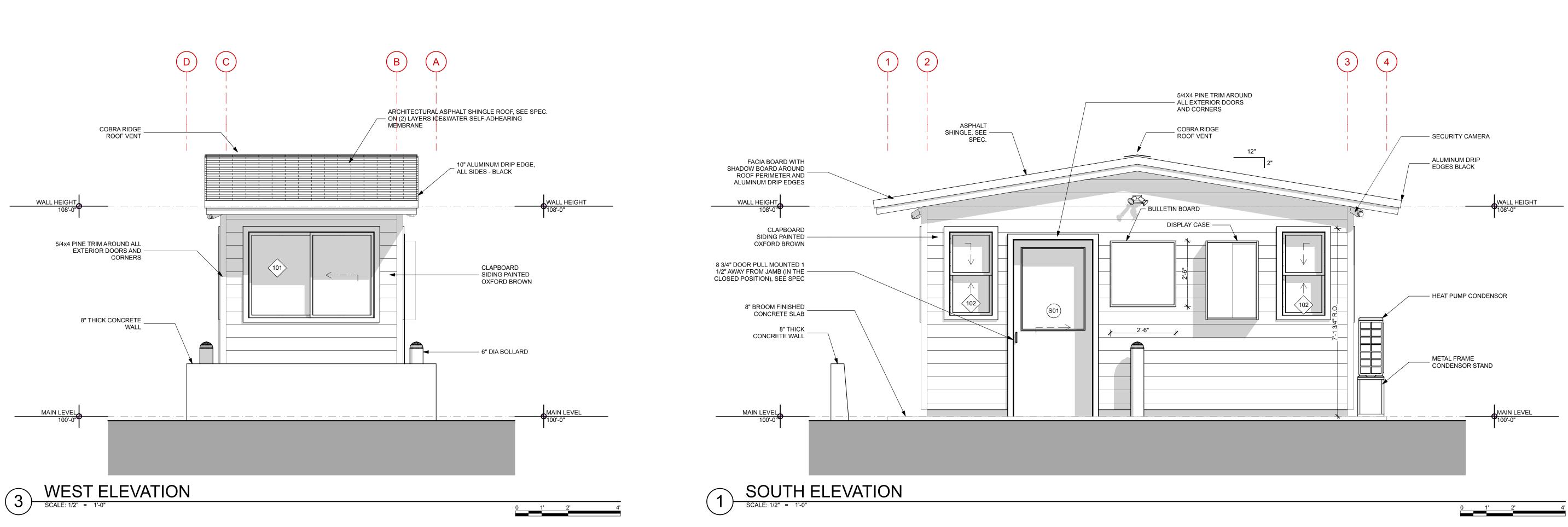
Kaplan

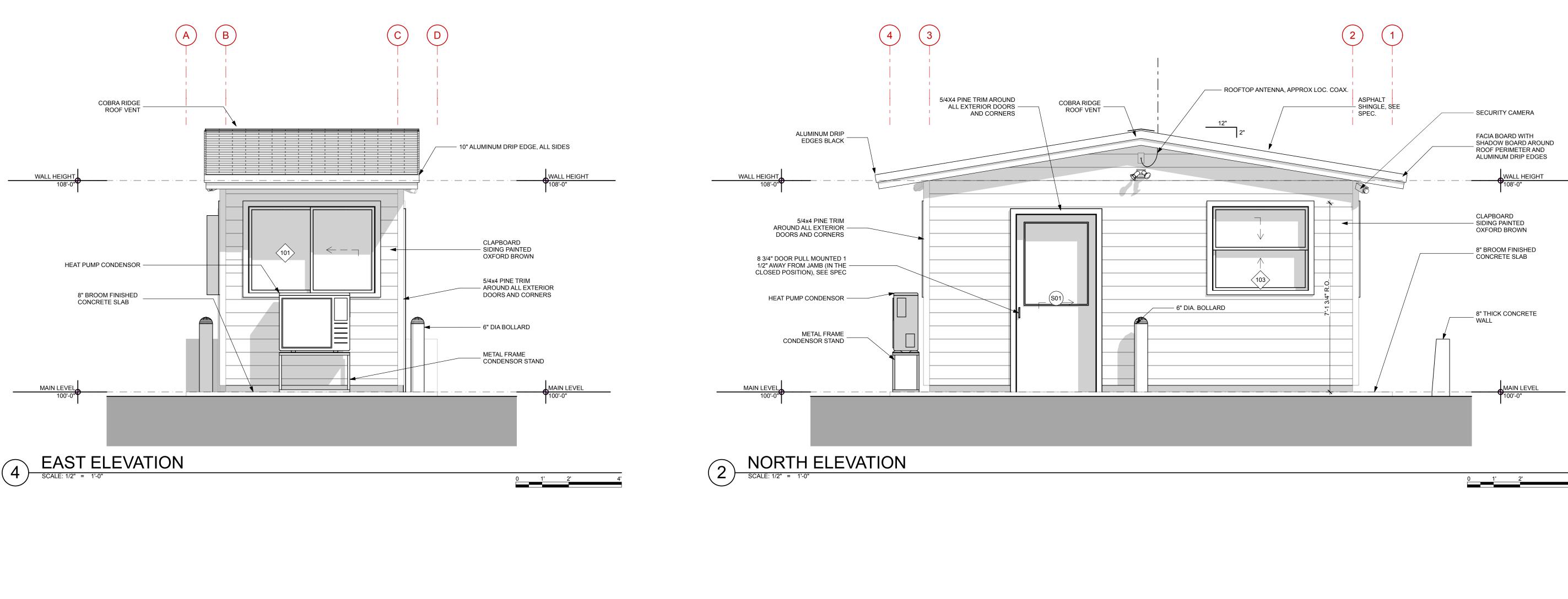
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PROJECT

Wolfe's Neck Woods State Park Gatehouse

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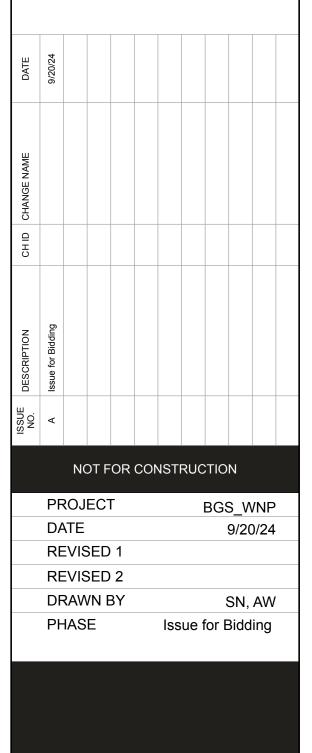
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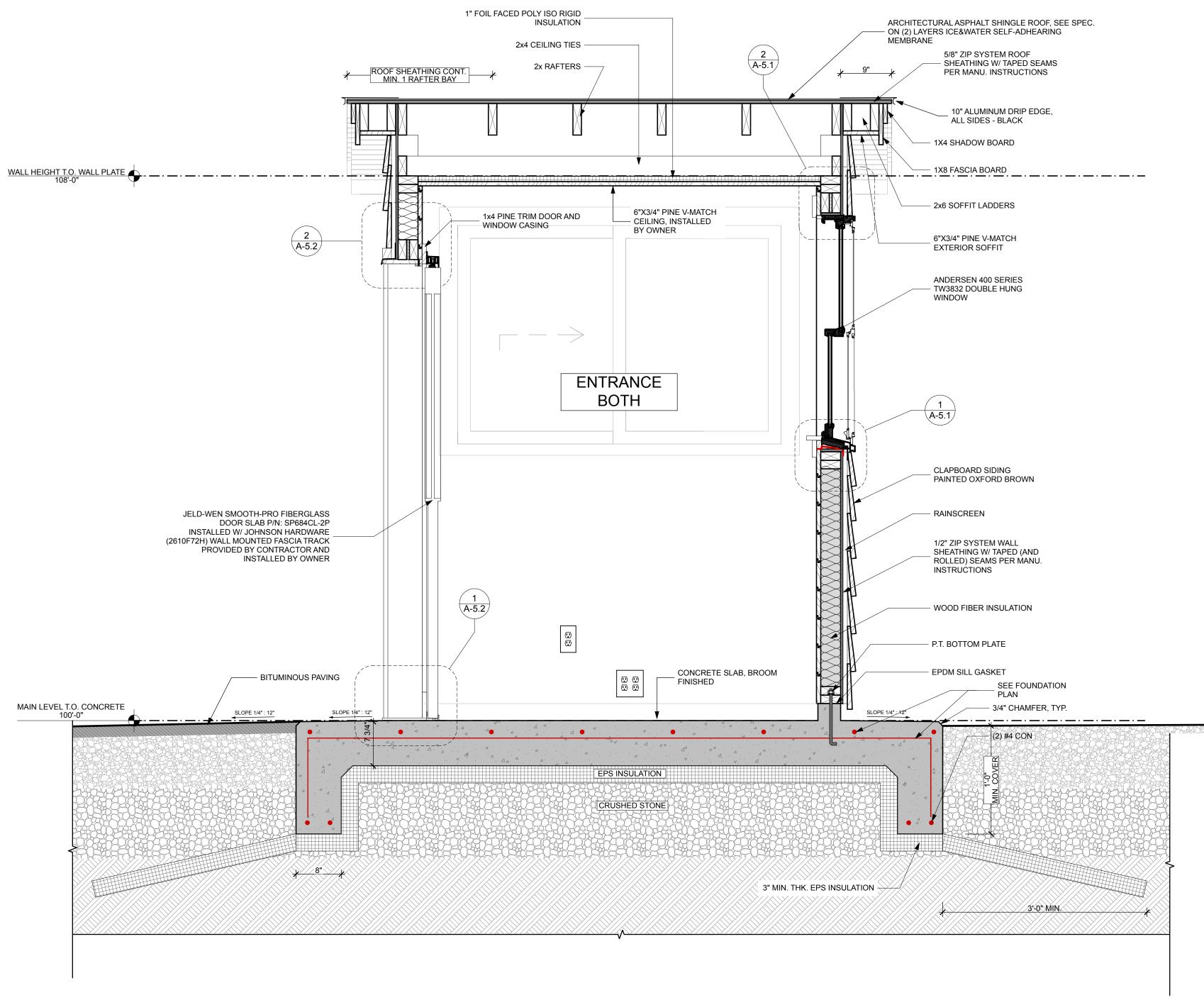
ELECTRICAL ENGINEER Swiftcurrent Engineering Services, Inc. 10 Forrest Falls Drive Yarmouth, ME 04096 p: 207 847-9280





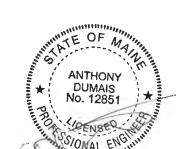
NORTH/EAST/SOUTH & WEST ELEVATIONS A-2.1





NOTES:

1. CONTRACTOR WILL PROVIDE THE FOUNDATION, FRAMING, SIDING, WINDOWS AND ROOFING, INSULATION AND ALL ELECTRICAL ROUGH-IN. THE OWNER WILL COMPLETE THE INTERIOR WOOD BOARD FINISH AND ALL INTERIOR TRIM



0 6" 1'

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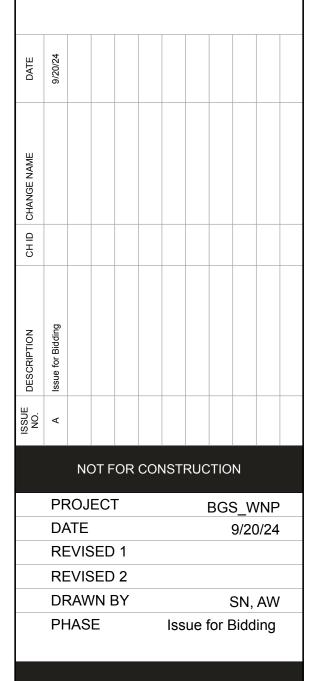
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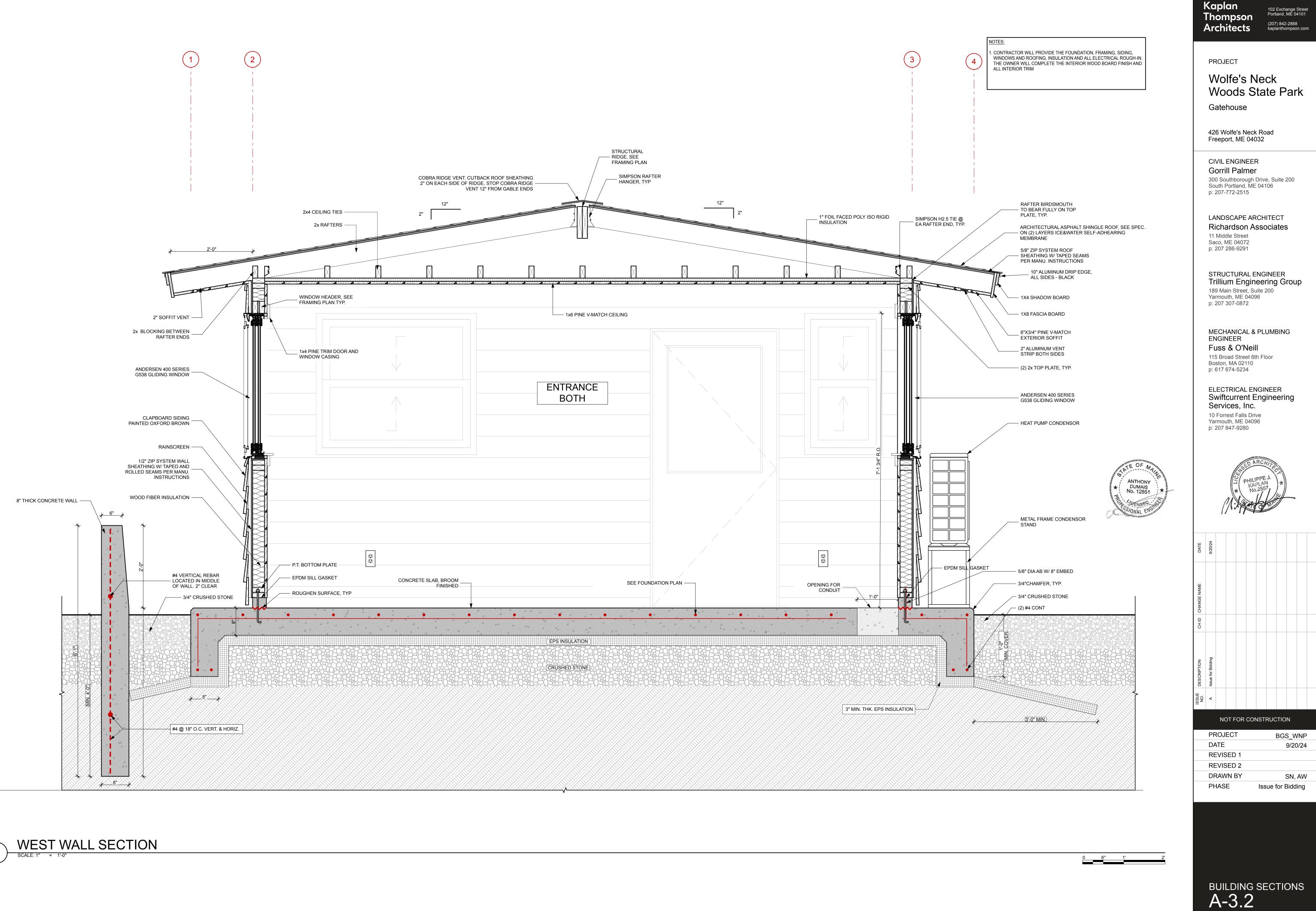
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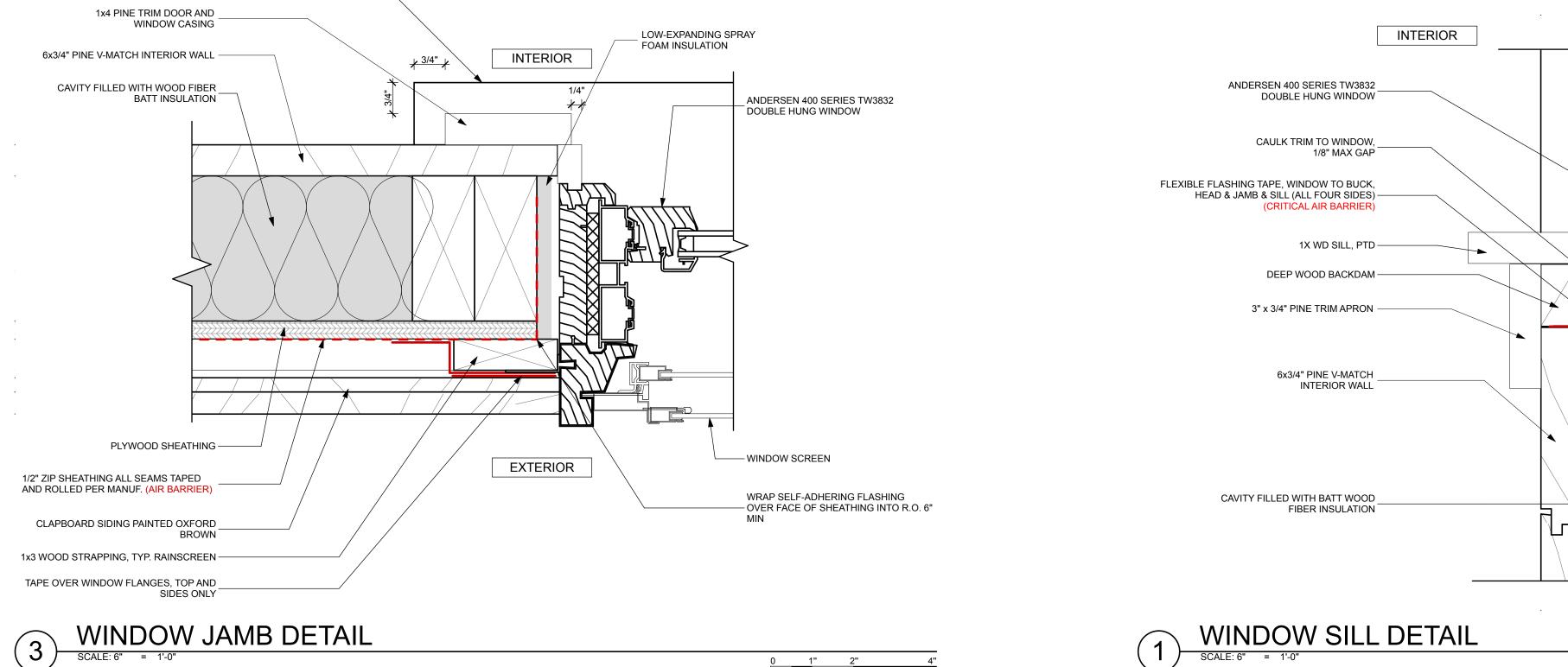








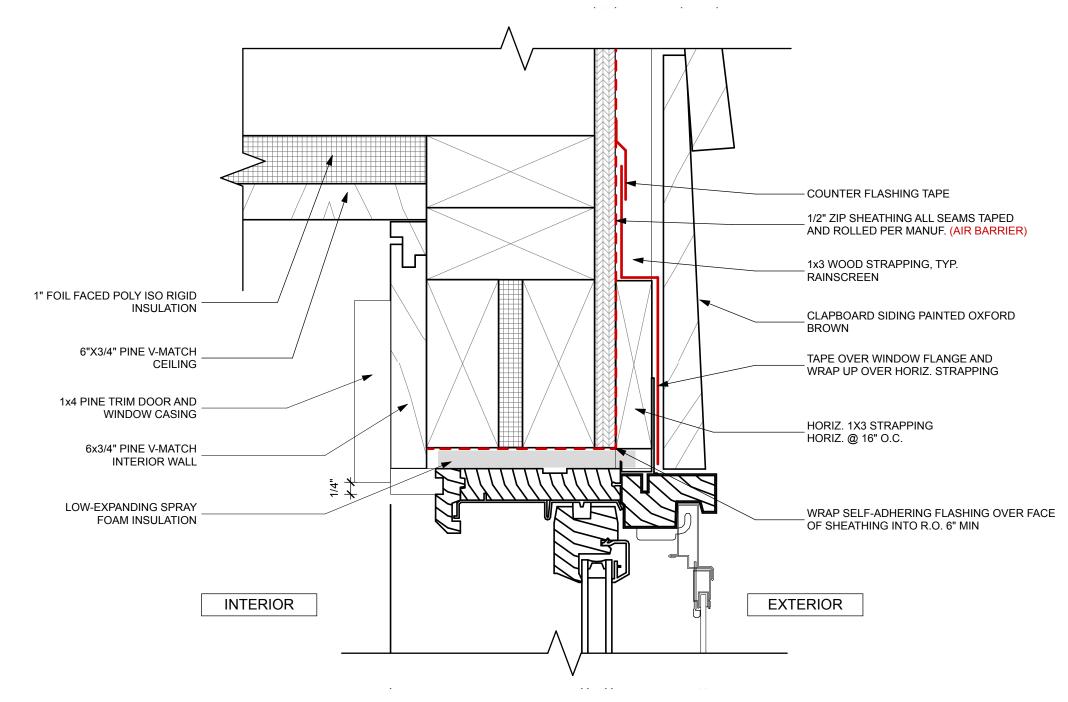


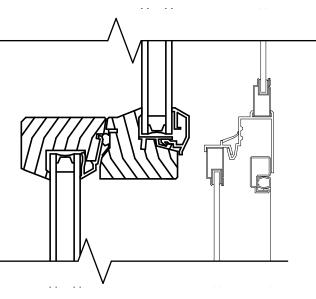


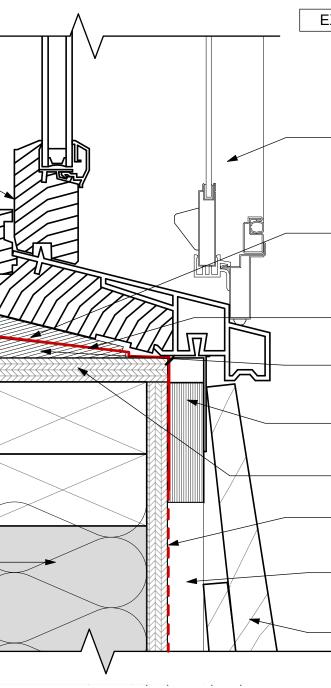
1X WD RETURN, PTD —

1 WINDOW SILL DETAIL SCALE: 6" = 1'-0"









EXTERIOR

- WINDOW SCREEN

WINDOW SETTING SHIM, INSTALL EVENLY - SPACED PER MANUF. RECOMMENDATIONS HOLD 2" IN FROM SIDES OF R.O.

SELF ADHERED SILL FLEXIBLE FLASHING, — WRAP ONTO FACE OF SHEATHING (WATER BARRIER)

- SLOPED SUBSILL, CLAPBOARD OR SIM.

HORIZ. 3/4" COR-A-VENT VENT STRIP INSTALLED — HORIZ. @ 16" O.C. / OTHER AREAS REFER TO SIDING TRANSITION SHEETS FOR RAINSCREEN DETIAL

- 1/2" PLYWOOD BUCK

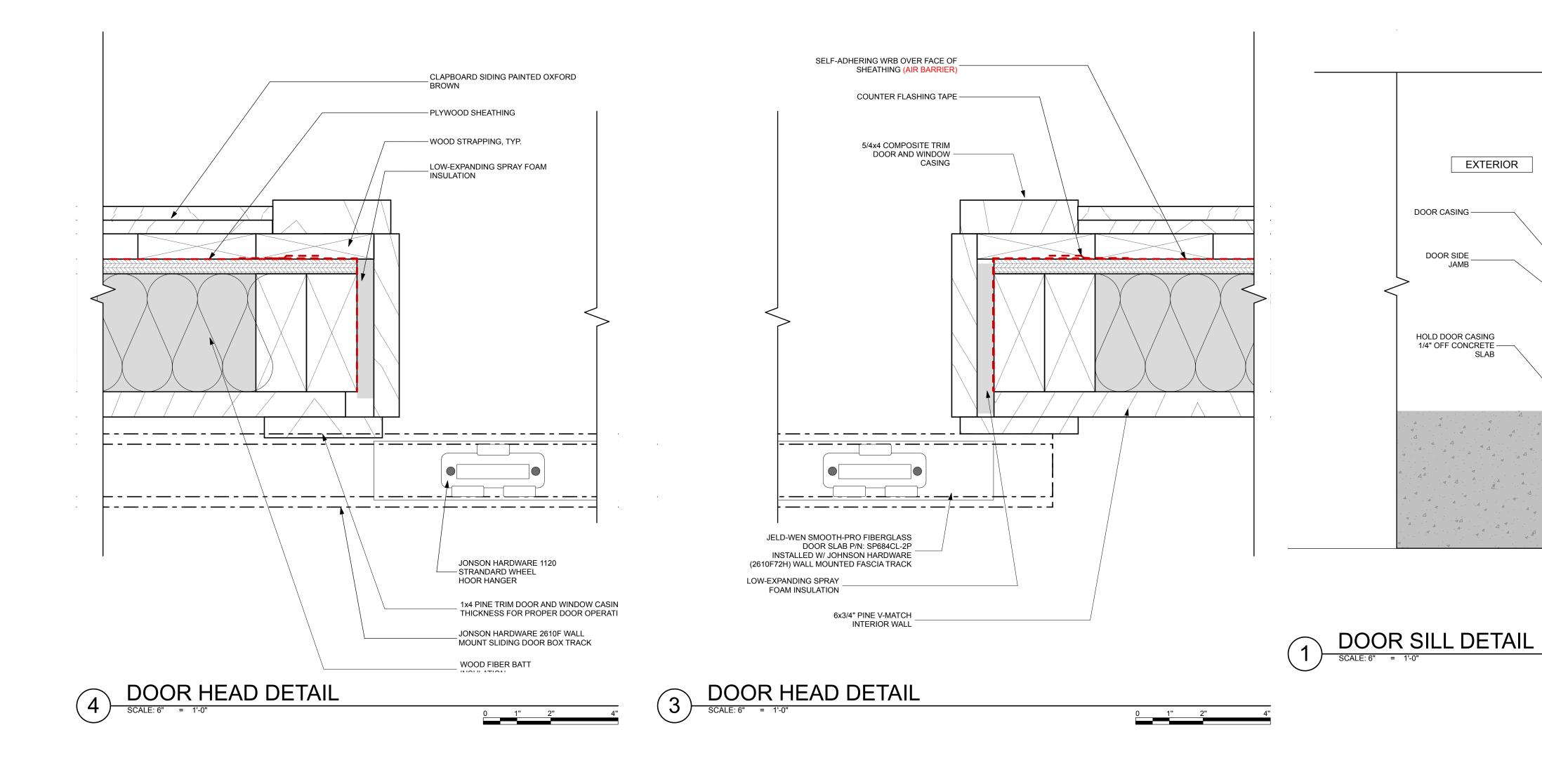
_ 1/2" ZIP SHEATHING ALL SEAMS TAPED AND ROLLED PER MANUF. (AIR BARRIER)

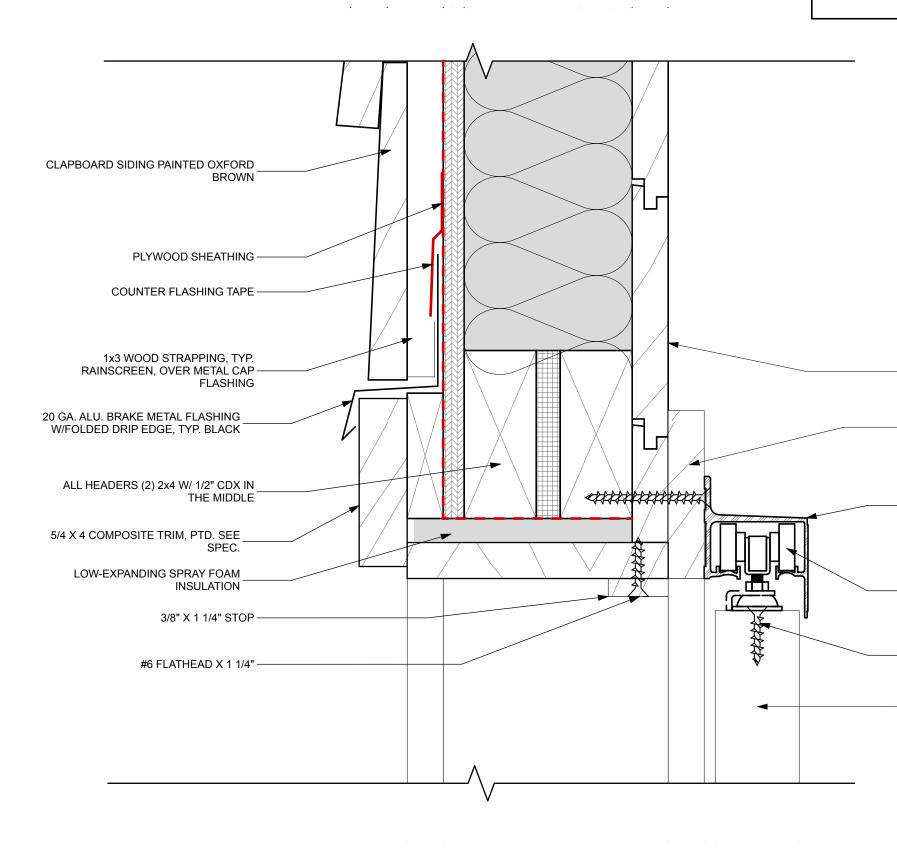
_ 1x3 WOOD STRAPPING, TYP. RAINSCREEN

_ CLAPBOARD SIDING PAINTED OXFORD BROWN

ThompsonPortland, IArchitects(207) 842: kaplantho	-2888 mpson.com												
PROJECT Wolfe's Neck Woods State P Gatehouse	ark												
426 Wolfe's Neck Road Freeport, ME 04032													
CIVIL ENGINEER Gorrill Palmer 300 Southborough Drive, Suite 200 South Portland, ME 04106 p: 207-772-2515													
LANDSCAPE ARCHITECT Richardson Associates 11 Middle Street Saco, ME 04072 p: 207 286-9291	5												
STRUCTURAL ENGINEER Trillium Engineering G 189 Main Street, Suite 200 Yarmouth, ME 04096 p: 207 307-0872	roup												
MECHANICAL & PLUMBING ENGINEER Fuss & O'Neill 115 Broad Street 6th Floor Boston, MA 02110 p: 617 674-5234	3												
ELECTRICAL ENGINEER Swiftcurrent Engineerii Services, Inc. 10 Forrest Falls Drive Yarmouth, ME 04096 p: 207 847-9280	ng												
PHILIPPE J. KAPLAN No.2567													
DATE 9/20/24													
CHID CHANGE NAME													
ISSUE DESCRIPTION NO. A Issue for Bidding													
NOT FOR CONSTRUCTIO	N												
	S_WNP												
REVISED 1	9/20/24												
REVISED 2 DRAWN BY S PHASE Issue for E	SN, AW Bidding												

WINDOW DETAILS A-5.1







. A



1. THE OWNER WILL PURCHASE AND INSTALL THE SLIDING DOOR TO THE GATEHOUSE

> 6x3/4" PINE V-MATCH INTERIOR WALL

1x4 PINE TRIM DOOR AND WINDOW CASING

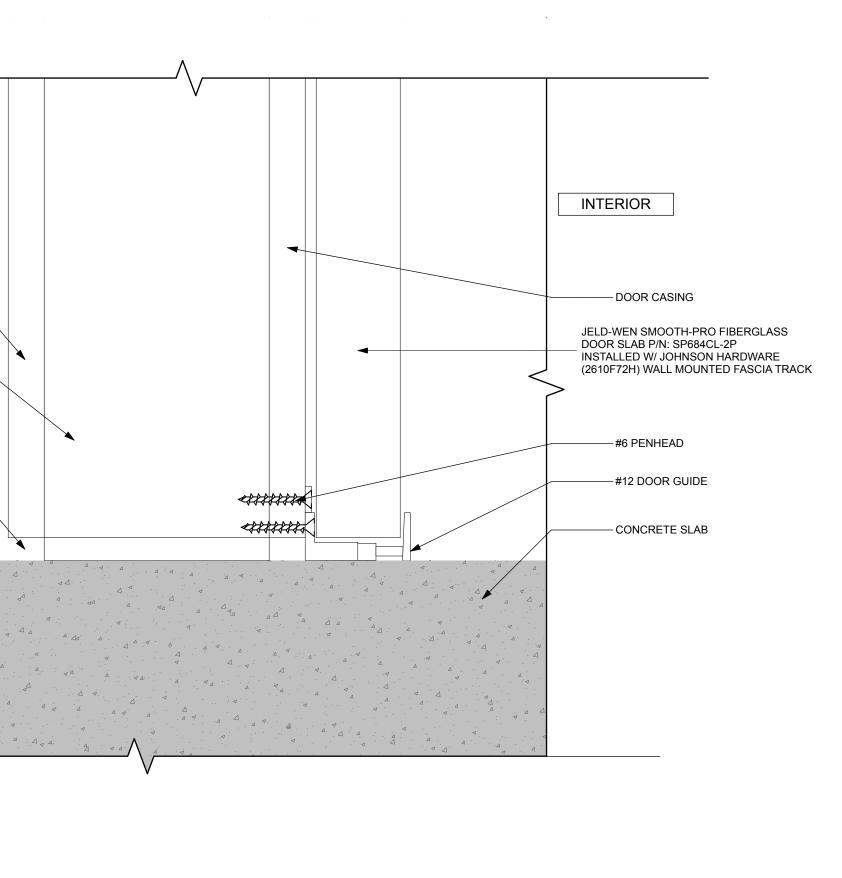
JONSON HARDWARE 2610F WALL MOUNT SLIDING DOOR BOX TRACK

JONSON HARDWARE 1120 STRANDARD WHEEL HOOR HANGER

— #12 PANHEAD X1 1/4"

JELD-WEN SMOOTH-PRO FIBERGLASS DOOR SLAB P/N: SP684CL-2P INSTALLED W/ JOHNSON HARDWARE (2610F72H) WALL MOUNTED FASCIA TRACK







NOT FOR CONSTRUCTION PROJECT BGS_WNP DATE 9/20/24 **REVISED 1 REVISED 2** DRAWN BY SN, AW PHASE Issue for Bidding

door details A-5.2

WIND	OW SCHEDUL	E																
ID	Exterior Elevation		UGH ENING	Qty.	Unit Type	Nom. Area SF	Material	Exterior Finish Interior Finish Manufacturer Finish Fire Egress Tem	Glazing		Glazing		Glazing		Glazing		Tempered	NOTES
	Elevation	Width	Height			бг		FILISI		Panes	SHGC	(COG) U-Value						
101	<	5'-0"	3'-6"	2	Sliding	17.5			Andersen 400 Series	Double	0.24	0.15			G536 GLIDING WINDOW			
102	Г → →	1'-10 1/8"	3'-4 7/8"	2	Double Hung	6.3			Andersen 400 Series	Double	0.24	0.15			TW 1832 DOUBLE HUNG WINDOW			
103		3'-10 1/8"	3'-4 7/8"	1	Double Hung	13.1			Andersen 400 Series	Double	0.24	0.15			TW 3832 DOUBLE HUNG WINDOW			
				5														

DOOR SCHEDULE

DOON	SCHEDOLL													
		D	oor Leaf				- Related Zone	Material & Finish		Fire				
ID	Elevation	Width	Height	Thk.	Qty.	Unit Type	Name	Door Leaf	Door Frame	Resistance Rating	Manufacturer	Hardware	NOTES	Area
S01		3'-0"	6'-8 1/2"	2 3/4"	2	Sliding		Fiberglass Solid Core	Wood - Painted	Non-Rated	Jeld-Wen	HW SET: 1.0	JELD-WEN SMOOTH-PRO FIBERGLASS DOOR SLAB P/N: SP684CL-2P INSTALLED W/ JOHNSON HARDWARE (2610F72H) WALL MOUNTED FASCIA TRACK	20.1

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PROJECT

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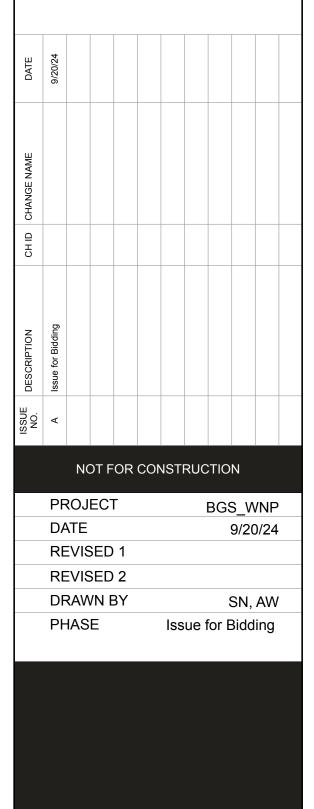
LANDSCAPE ARCHITECT Richardson Associates 11 Middle Street Saco, ME 04072 p: 207 286-9291

STRUCTURAL ENGINEER Trillium Engineering Group 189 Main Street, Suite 200 Yarmouth, ME 04096 p: 207 307-0872

MECHANICAL & PLUMBING ENGINEER Fuss & O'Neill 115 Broad Street 6th Floor Boston, MA 02110 p: 617 674-5234

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window + door schedule **A-8.1**







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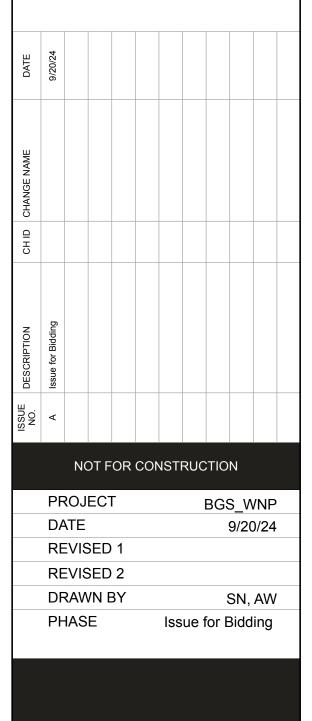
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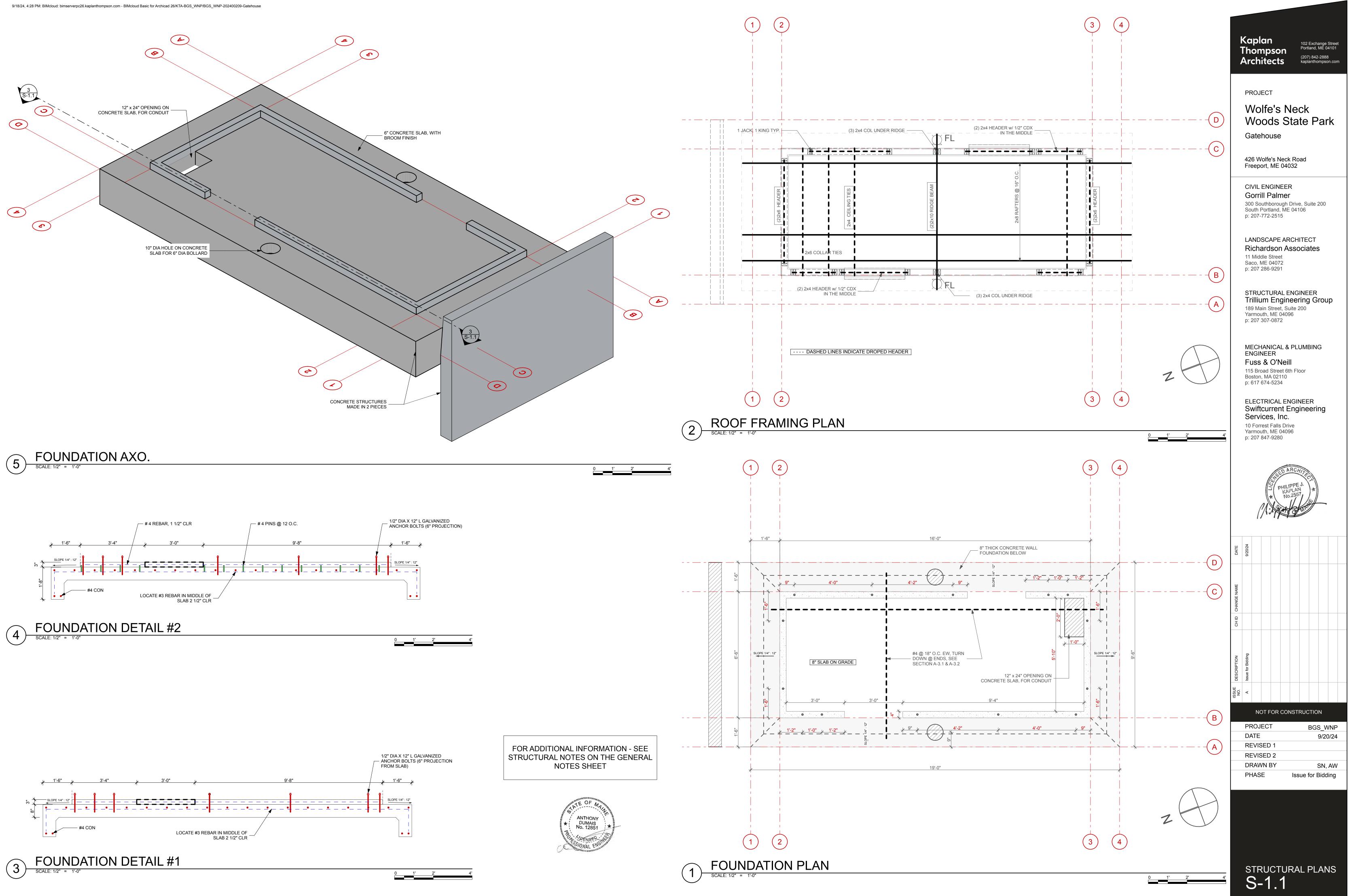
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ELECTRICAL ENGINEER Swiftcurrent Engineering Services, Inc. 10 Forrest Falls Drive Yarmouth, ME 04096 p: 207 847-9280





PERSPECTIVES



MECHANICAL (GENERAL	NOTES
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1. ALL CONTRACTORS SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS INCLUDING PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATION AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL/PLUMBING AND ELECTRICAL ENGINEERING.

- 2. THE INFORMATION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC, INDICATING THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT, AND THEIR ASSOCIATED ACCESS AREAS, WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED BY INSTALLATION BY ANY CONTRACTOR SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- 3. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, OR BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS. FOR EACH CONFLICT, CONTRACTOR SHALL CARRY THE MORE EXPENSIVE OR LARGER QUANTITY OPTION.
- 4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EQUIPMENT LOCATIONS IN THE FIELD, AND SHALL ADVISE THE ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- 5. CONTRACTOR SHALL SECURE ALL PERMITS AND APPLICATIONS AND PAY ALL FEES PERTAINING TO THE CONTRACT.
- 6. ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS WITH CODE OR MANUFACTURER-REQUIRED ACCESS SPACES. ALL MECHANICAL EQUIPMENT INSTALLATIONS SHALL ADHERE TO MANUFACTURER OPERATION CLEARANCE AND SERVICE CLEARANCE REQUIREMENTS.
- 7. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS REQUIRED FOR A COMPLETE INSTALLATION.
- 8. EACH CONTRACTOR SHALL COORDINATE THE LOCATION OF THEIR WORK WITH ALL OTHER TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE SYSTEM LAYOUT REQUIRED FOR INSTALLATION SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR PERSONNEL IDENTIFICATION AND SITE SAFETY MEASURES AS REQUIRED BY PROJECT SITE SUPER AND GC.
- 10. CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND BUILDING OPERATION WITH THE OWNER A MINIMUM OF 72 HOURS PRIOR TO THE SCHEDULED SERVICE INTERRUPTION.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS.
- 12. CONTRACTORS SHALL PROVIDE SLEEVES AND SEALS FOR ALL PIPING OR CONDUIT THAT PENETRATES CONCRETE WALLS OR FLOOR SLABS.
- 13. GC SHALL RESPONSIBLE FOR ALL AIR SEALING, WEATHER-SEALING AND FIRE-STOPPING MEDIA AS REQUIRED. WEATHER-TIGHT SEALS AT MECHANICAL PENETRATIONS THROUGH WALLS AND ROOFS TO BE COMPLETED BY THE GC. MC TO SUPPLY ACCESS PANELS WHERE REQUIRED FOR INSTALLATION BY THE GC.
- 14. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION OF ANY PROPOSED STRUCTURAL MEMBER PENETRATIONS TO THE STRUCTURAL ENGINEER FOR REVIEW AND DETAILING BEFORE INSTALLATION. CONTRACTOR SHALL REPAIR ANY DAMAGE DUE TO PENETRATIONS INSTALLED, AT NO COST TO OWNER. THE DAMAGE REPAIRING SHALL ALSO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
- 15. CONTRACTOR SHALL SUBMIT COMPLETE ELECTRONIC SET OF SHOP DRAWINGS, SUBMITTALS, AND EQUIPMENT CUT SHEET INFORMATION TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK.
- 16. EQUIPMENT, PIPE AND SYSTEMS LAYOUTS ARE DIAGRAMMATIC. SYSTEMS MAY BE SHOWN DISPLACED FOR CLARITY. CONTRACTOR SHALL PROVIDE ALL SYSTEM APPURTENANCES FOR FULLY FUNCTIONAL SYSTEM PER MANUFACTURER AND DIV 23 SPECIFICATIONS. MC SHALL SUPPLY AND INSTALL ALL FITTINGS, COUPLINGS, VALVES, UNIONS, PIPE OFFSETS AND TRANSITIONS AS REQUIRED. COORDINATE WITH OTHER TRADES AT NO COST TO THE OWNER.
- 17. ALL REQUIRED ENVELOPE PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE COORDINATED WITH GC IN FIELD PRIOR TO CORING.
- 18. NO PIPING OR DUCTS SHALL BE INSTALLED OVER ELECTRICAL PANELS, TRANSFORMERS, OR ELEVATOR MACHINE ROOM EQUIPMENT. CONTRACTOR SHALL COORDINATE PIPING AND DUCTWORK WITH ELECTRICAL EQUIPMENT IN FIELD PRIOR TO SYSTEM INSTALLATIONS.
- 19. PROVIDE SPRING ISOLATED & SEISMICALLY RATED HANGERS FOR EQUIPMENT, DUCTWORK AND PIPING PER SPECIFICATIONS. CONTRACTOR IS TO PROVIDE SUBMITTALS INDICATING PROPOSED SYSTEMS, INSTALLATION DETAILS AND PLAN LOCATIONS WITHIN COORDINATION DRAWING SUBMITTAL.
- 20. PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAINS AT LOW POINTS.
- 21. PROVIDE STUD GUARDS FOR ALL PIPING LOCATED WITHIN 1" OF EDGE OF FRAMING MEMBERS
- 22. SYSTEM INSTALLATIONS: EQUIPMENT AND ASSOCIATED SYSTEM APPURTENANCES SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH INDUSTRY BEST PRACTICE. SYSTEMS SHALL BE INSTALLED TO FACILITATE FUTURE SERVICE AND REPLACEMENT WITH RESPECT TO DISCONNECTION/RECONNECTION OF PIPES, EQUIPMENT AND ACCESSORIES AS REQUIRED. MECHANICAL SYSTEMS SHALL BE INSTALLED SUCH THAT ALL PARTS ARE EASILY ACCESSIBLE FOR INSPECTION, OPERATION, MAINTENANCE AND REPAIR.
- 23. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS & REQUIREMENTS AND THE BEST STANDARD PRACTICE FOR THIS TYPE OF WORK.
- 24. BEST PRACTICE: IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY FITTING, CONNECTION, OR APPLIANCE THIS CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
- 25. CONTRACTOR SHALL VERIFY THE LOCATIONS AND MOUNTING HEIGHTS OF ALL EQUIPMENT AND MATERIALS, AND THE EXACT ROUTING OF ALL PIPES AND DUCTWORK WITH THE OWNER'S REPRESENTATIVE IN THE FIELD, PRIOR TO COMMENCING ANY WORK ANY CONFLICTS WITH LOCATIONS, OR PROBLEMS ENCOUNTERED WITH ROUTING, SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION 8 MATERIALS: ALL MATERIALS, FIXTURES AND EQUIPMENT SHALL BE NEW WITHOUT IMPERFECTIONS AND SHALL BE DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL WHEREVER POSSIBLE, ALL TRIM, ACCESSORIES AND PARTS SHALL BE OF THE SAME MANUFACTURER AS THE RELATED EQUIPMENT AND FIXTURES.
- 26. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR AIR SEALING AND INSULATION PER SPECIFICATION REQUIREMENTS.
- 27. ALL ELECTRICAL SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL LOCAL REQUIREMENTS COORDINATE ELECTRICAL CHARACTERISTICS FOR ALL EQUIPMENT WITH EC BEFORE ORDERING EQUIPMENT.
- 28. ALL THERMOSTATS SHALL BE WALL MOUNTED MIN. 48" AFF UNLESS NOTED OTHERWISE.
- 29. CONTRACTOR SHALL PROVIDE COMPLETE CONTROL SYSTEM FOR FULLY FUNCTIONAL SYSTEM PER MANUFACTURER'S AND SEQUENCE OF OPERATION REQUIREMENTS. THE MC SHALL BE RESPONSIBLE FOR ALL SENSORS, THERMOSTATS, CONTACTS, CONTROL PANELS, BACK-BOARD MODULES LOW-VOLTAGE WIRING, TRANSFORMERS, AND ASSOCIATED SYSTEM PROGRAMMING AS REQUIRED.
- 30. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ASSISTING WITH THIRD PARTY COMMISSIONING AS REQUIRED BY ARCHITECTURAL PROJECT SPECIFICATIONS FOR COMMISSIONING, TO COMPLETE FUNCTIONAL TESTING AND PROGRAMMING REQUIREMENTS PER OWNER'S REQUIREMENTS.
- 31. ACOUSTIC AND VIBRATION REQUIREMENTS: MECHANICAL AND ELECTRICAL EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE AND/OR VIBRATION, AS DETERMINED BY THE ENGINEER. ALL EQUIPMENT WITH BLOWER MOTORS, ROTATING WHEELS OR INTEGRAL MECHANISMS THAT CAN GENERATE NOISE OR VIBRATION ARE TO BE PROVIDED WITH VIBRATION ISOLATION RATED FOR THEIR ANTICIPATED SERVICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE FOR NOISE AND VIBRATION ISOLATION.
- 32. HYDROSTATIC TESTING SHALL BE PERFORMED ON ALL EQUIPMENT AND PIPING THAT IS SUBJECTED TO PRESSURES ABOVE AMBIENT. THE MECHANICAL/PLUMBING CONTRACTOR SHALL DEVELOP A TEST SEQUENCE AND PHASES BASED UPON THE SYSTEM DESIGN, THE SYSTEM COMPONENTS THAT REQUIRE TESTING, AND THE CONSTRUCTION SEQUENCE OF THOSE COMPONENTS. THE CONTRACTOR SHALL PROVIDE THIS TEST SEQUENCE TO THE OWNER AND ENGINEER FOR REVIEW. THE CONTRACTOR SHALL GIVE THE ENGINEER AND OWNER 48 HOURS NOTICE BEFORE PERFORMING ANY SYSTEM COMPONENT PRESSURE TEST. THE CONTRACTOR SHALL NOT USE A COMPRESSIBLE FLUID, SUCH AS COMPRESSED AIR, FOR THE HYDROSTATIC TESTS. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE ENGINEER AND OWNER THAT THE PRESSURE TEST EQUIPMENT, INCLUDING PRESSURE SENSORS AND GAGES, HAS BEEN CALIBRATED BEFORE USE. THE CONTRACTOR SHALL ISOLATE ALL EQUIPMENT AND PIPING THAT IS NOT UNDERGOING TESTING USING FLANGES OR CAPS, NOT SHUTOFF VALVES. REFER TO SPECIFICATIONS FOR HYDROSTATIC PRESSURE TEST DETAILS FOR A GIVEN SYSTEM COMPONENT.
- 33. PROTECTION OF EQUIPMENT AND MATERIALS: RESPONSIBILITY FOR CARE AND PROTECTION OF ALL MATERIALS AND WORK RESTS WITH THIS CONTRACTOR AT ALL TIMES UNTIL IT HAS BEEN APPROVED.
- 34. CONTRACTOR GUARANTEE: ALL NEW COMPONENTS OF THE INSTALLATION SHALL BE GUARANTEED IN WRITING BY THIS CONTRACTOR TO BE FREE FROM DEFECTS OF MANUFACTURE AND INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF WRITTEN ACCEPTANCE OF THE ENTIRE BUILDING BY THE ENGINEER . ANY DEFECTS FOUND SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AT THEIR OWN EXPENSE AND AT NO COST TO THE OWNER.
- 35. CONTRACTOR NOTIFICATION REQUIREMENTS: THE MC SHALL NOTIFY THE ENGINEER UPON: (1) COMPLETION OF ALL ROUGH PIPING, BEFORE CLOSURE OF ANY TRENCHES, OPEN WALL CAVITIES OR CHASES (2) UPON "SUBSTANTIAL COMPLETION" OF ALL SYSTEMS INCLUDING OPERATIONAL SYSTEMS AND FINISH WORK AFTER "SUBSTANTIAL COMPLETION", THE ARCHITECT WILL PREPARE A PUNCH LIST OF ITEMS TO BE CORRECTED THE MC SHALL CORRECT ANY DEFICIENCIES FOUND PROMPTLY, AT THEIR OWN EXPENSE.
- 36. FINAL COMPLETION: THE WORK SHALL NOT BE CONSIDERED COMPLETE UNTIL THE PUNCH LIST IS COMPLETED TO THE SATISFACTION OF THE ENGINEER AND ALL FINAL INSPECTIONS HAVE BEEN COMPLETED. UPON COMPLETION OF PROJECT CONSTRUCTION AND FINAL PUNCH LIST OUTSTANDING ITEMS, CONTRACTOR SHALL SUPPLY THE ENGINEER WITH (1) COMPLETE SET OF ELECTRONIC AS-BUILT DOCUMENTS AND (1) COMPLETE ELECTRONIC SET OF OPERATIONS AND MAINTENANCE MANUALS. CONTRACTOR SHALL BE RESPONSIBLE FOR CLOSING ALL PROJECT PERMITS AND FINAL INSPECTIONS AS REQUIRED BY LOCAL AHJ.

CONTROLS LEGEND

MECHANICAL ABBREVIATIONS

			i		
		A	AMP	H.P.	HORSEPOWER
	DIRECTION OF AIRFLOW	AFF	ABOVE FINISHED FLOOR	HTG	HEATING
	CONTROL WIRE	AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	HWS	HOT WATER SUPPLY
		AHJ	AUTHORITY HAVING JURISDICTION	HWR	HOT WATER RETURN
ζ	LOW TEMPERATURE SENSOR	AHU	AIR HANDLING UNIT	HX	HEAT EXCHANGER
Т <mark>В</mark>	TEMPERATURE SENSOR	AS	AIR SEPARATOR	HZ	HERTZ
-		AWT	AVERAGE WATER TEMPERATURE	IN	INCH
P S	PRESSURE SENSOR	BS / BC	BRANCH SELECTOR / BRANCH CONTROLLER BOX	LAT	LEAVING AIR TEMPERATURE
		BFP	BACKFLOW PREVENTER	LBS	POUNDS
	DUCT SMOKE DETECTOR	BMS	BUILDING MANAGEMENT SYSTEM	LWT	LEAVING WATER TEMPERATURE
		BTUH	BRITISH THERMAL UNITS PER HOUR	MAU	MAKEUP AIR UNIT
CO2	CARBON DIOXIDE SENSOR	CA	COMBUSTION AIR	MBH	THOUSANDS OF BRITISH THERMAL UNITS PER HOUR
\odot	CARBON MONOXIDE SENSOR	CD	CONDENSATE DRAIN	MAX	MAXIMUM
()	THERMOSTAT	CFM	CUBIC FEET PER MINUTE	MC	MECHANICAL CONTRACTOR
\bigcirc	THERMOSTAT	СН	CABINET HEATER	MCA	MAXIMUM CIRCUIT AMPS
FR	FREEZE-STAT	CHWS	CHILLED WATER SUPPLY	MECH	MECHANICAL
(T)	REVERSE ACTING THERMOSTAT	CHWR	CHILLED WATER RETURN	MIN	MINIMUM
		CLG	COOLING	MOCP	MAXIMUM OVER-CURRENT PROTECTION
(TC)	PROGRAMMABLE TIMECLOCK	CMU	CONCRETE MASONRY UNIT	NC	NORMALLY CLOSED
H	HUMIDISTAT	CO	CLEAN OUT	NEZV	NON-ELECTRIC ZONE VALVE
	HUMIDITY SENSOR	CW	COLD WATER	NIC	NOT IN CONTRACT
HS		DDC	DIRECT DIGITAL CONTROL	NO	NORMALLY OPEN
\bigcirc	COMBINATION THERMOSTAT / HUMIDISTAT	DHW	DOMESTIC HOT WATER	NPW	NON-POTABLE WATER
ES	ENTHALPY SENSOR	DSD	DUCT SMOKE DETECTOR	NTS	NOT TO SCALE
\sim		DT	DELTA T	OA	OUTSIDE AIR
(S)	MANUAL "ON/OFF" SWITCH	DU	DWELLING UNIT	OBD	OPPOSED BLADE DAMPER
œ	DIFFERENTIAL PRESSURE SENSOR	DX	DIRECT EXPANSION	OD	OVERFLOW DRAIN
$\overline{\mathbf{O}}$	OCCUPANCY SENSOR	(E)	EXISTING	PROVIDE	SUPPLY AND INSTALL
60	OCCUPANCI SENSOR	EA	EXHAUST AIR	PC	PLUMBING CONTRACTOR
E	FLOW METER / SENSOR	EBB	ELECTRIC BASEBOARD HEATER	POU	POINT OF USE
СТ	CURRENT	EC	ELECTRICAL CONTRACTOR	PRV	PRESSURE REDUCING VALVE
	TRANSFORMER	EER	ENERGY EFFICIENCY RATIO	RC	ROOFING CONTRACTOR
М	MOTORIZED DAMPER	EF	EXHAUST FAN	RCP	REFLECTIVE CEILING PLAN
I		ERV	ENERGY RECOVERY VENTILATOR	RD	ROOF DRAIN
ZD	ZONE DAMPER	ETR	EXISTING TO REMAIN	RL	REFRIGERANT LIQUID LINE
I		ET	EXPANSION TANK	RS	REFRIGERANT SUCTION LINE
\square	PUMP	ESP	EXTERNAL STATIC PRESSURE	RTU	ROOF TOP UNIT
		EUH	ELECTRIC UNIT HEATER	RV	RADON VENT THRU-ROOF
لر 🕲	FAN / BLOWER	EWH	ELECTRIC WALL HEATER	RPZ	REDUCED PRESSURE ZONE ::: BACKFLOW PREVENT
<u> </u>	HAND-OFF-AUTO MOTOR	EWT	ENTERING WATER TEMPERATURE	SA	SUPPLY AIR
HOA	CONTROLLER	EXT	EXTERIOR	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	ELECTRONIC COMMUTATED	FCU	FAN COIL UNIT	SM	SHEET METAL
ECM	MOTOR CONTROL	FD	FIRE DAMPER	SS	STAINLESS STEEL
VFD	VARIABLE FREQUENCY DRIVE	FLA	FULL LOAD AMPS	T&P	TEMPERATURE & PRESSURE
VI D		FPI	FINS PER INCH	TS	TEMPERATURE SENSOR
EHC		FPC	FIRE PROTECTION CONTRACTOR	TYP	TYPICAL
XI	ELECTRIC HEATING COIL	FSB	FILED SUB-BID	TU	TERMINAL UNIT
HIG		FT	FEET	UH	UNIT HEATER
		GAL	GALLLONS	UNO	UNLESS NOTED OTHERWISE
$\overline{\mathbf{A}}$		GC	GENERAL CONTRACTOR (PRIME CONTRACTOR & CON. MANAGER)	UV	UNIT VENTILATOR
	GAS FIRED FURNACE BURNER (S)	GPM	GALLONS PER MINUTE	V	VENT
		HG	HOT GAS HEAT RECOVERY REFRIGERANT LINE	VD	VOLUME DAMPER
		HGR	HOT GAS REHEAT REFRIGERANT LINE	VFD	VARIABLE FREQUENCY DRIVE
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REFRIGERANT HOT GAS REHEAT COIL

HYDRONIC HEATING HOT

WATER COIL

DIRECT EXPANSION **REFRIGERANT HEATING /**

COOLING COIL (HEAT PUMP)

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TWO WAY CONTROL VALVE

AIR COOLED CONDENSING UNIT.

AIR SOURCE HEAT PUMP

DIFFERENTIAL PRESSURE BYPASS

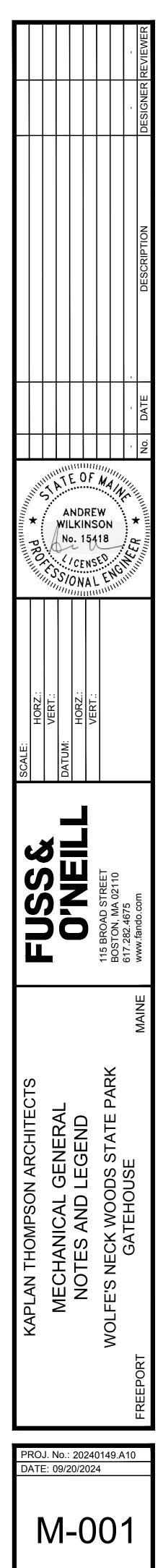
MECHANICAL GENERAL SYMBOLS

QUIPMENT TAG - NO POWER CONNECTION REQUIRED SEE SCHEDULE)
QUIPMENT TAG - POWER CONNECTION REQUIRED SEE SCHEDULE)
DETAIL TAG - DETAIL #, SHEET #
XTENT OF DEMOLITION (E.O.D.)
CONNECT TO EXISTING (C.T.E.)
REVISION CLOUD
REVISION NUMBER TAG

PIPING & VALVE LEGEND

PUMP / CIRCULATOR
WELL TYPE TEMPERATURE
SENSOR / THERMOMETER
PRESSURE GAUGE
VACUUM BREAKER
PIPING WITH ELECTRIC HEAT TRACE
COMBINATION HOT & CHILLED WATER - SUPPLY
COMBINATION HOT & CHILLED WATER - RETURN
HOT WATER SUPPLY PIPING
HOT WATER RETURN PIPING
CHILLED WATER SUPPLY PIPING
CHILLED WATER RETURN PIPING
CONDENSER WATER SUPPLY PIPING
CONDENSER WATER RETURN PIPING
HVAC CONDENSATE PIPING
INLINE CONDENSATE CLEAN OUT
COMBUSTION AIR INTAKE PIPING
COMBUSTION AIR FLUE PIPING
REFRIGERANT LIQUID PIPING
REFRIGERANT SUCTION PIPING
REFRIGERANT HOT GAS HEAT RECOVERY PIPING
REFRIGERANT HOT GAS REHEAT PIPING
PIPE DROP DOWN
PIPE DROP DOWN FROM TWO SIDES
BALANCING VALVE
BALL VALVE W/ DRAIN
BALL VALVE WITH HOSE THREAD W/ BRASS CAP & CHAIN
BALL VALVE
PRESSURE REDUCING VALVE
STEAM PRESSURE REGULATOR
SPRING CHECK VALVE REDUCED PRESSURE ZONE (RPZ) / BACKFLOW
PREVENTER
STRAINER WITH BALL VALVE AND THREADED DRAIN CONNECTION, PROVIDE WITH DRAIN CAP AND
CHAIN. 3/4" DRAIN SIZE MIN.
THERMOSTATIC 3-WAY VALVE
UNION
FLANGE
FLEXIBLE PIPE CONNECTION
PIPE ANCHOR
PIPE SLEEVE / GUIDE
AIR VENT (AUTO-AIR VENT WITH REPLACABLE VALVE BODY)
RELIEF VENT / VALVE
RELIEF VENT / VALVE TRIPLE DUTY VALVE

DI	JCTWORK & AIR
	SIDE LEGEND
	DUCT OFFSET DOWN IN PLAN
	DUCT OFFSET UP IN PLAN
	SUPPLY DIFFUSER (4-WAY)
	SUPPLY DIFFUSER (3-WAY)
× Z × z	RETURN / EXHAUST DIFFUSER / GRILLE
-	SG; SIDEWALL SUPPLY GRILLE
	RG / EG; SIDEWALL RETURN / EXHAUST GRILLE
× ×	CEILING MOUNTED EXHAUST FAN
	ELECTRIC WALL HEATER
VD	VOLUME DAMPER
RD	RADIATION DAMPER
FD	FIRE DAMPER
CAR	CONSTANT AIRFLOW REGULATOR DAMPER
BD	BACK-DRAFT DAMPER
——— M	MOTORIZED (CONTROL) DAMPER
FSD	COMBINATION FIRE / SMOKE DAMPER
12"X12 "	RECTANGULAR DUCTWORK (FIRST DIMENSION IS SIZE SHOWN)
(E)12"X12"	EXISTING DUCTWORK
4 12"Ø 4	ROUND DUCTWORK
L1 L1	EXISTING DUCTWORK TO BE REMOVED (DEMO)
	SUPPLY DUCTWORK OFFSET UP
	SUPPLY DUCTWORK OFFSET DOWN
	RETURN DUCTWORK OFFSET UP
	RETURN DUCTWORK OFFSET DOWN
- O	ROUND SUPPLY DUCTWORK OFFSET UP
	ROUND SUPPLY DUCTWORK OFFSET DOWN
	DUCTWORK CAPPED END
	DUCTWORK INTERNAL INSULATION / ACOUSTIC LINING
	FLEXIBLE DUCTWORK CONNECTION
	RECTANGULAR DUCT TRANSITION
	DUCTWORK TRANSITION TO ROUND
	MITERED ELBOW WITH TURNING VANES
<u>ډ</u>	DUCTWORK - SINGLE LINE
\$ (E) \$	EXISTING DUCTWORK - SINGLE LINE
<i>۶</i> ۶	DUCTWORK TO ME REMOVED (DEMO) - SINGLE LINE
∽⊠	SUPPLY DUCTWORK OFFSET UP - SINGLE LINE
∽−−−⊠	SUPPLY DUCTWORK OFFSET DOWN - SINGLE LINE
∽Z	RETURN DUCTWORK OFFSET UP - SINGLE LINE
∽2	RETURN DUCTWORK OFFSET DOWN - SINGLE LINE
\$O	ROUND DUCTWORK OFFSET UP - SINGLE LINE
ς	ROUND DUCTWORK OFFSET DOWN - SINGLE LINE
∽∽∽∽	DUCTWORK TRANSITION - SINGLE LINE
·ا	DUCTWORK CAPPED END - SINGLE LINE



MECHANICAL SCHEDULES

									IT CAPACITY D				FLE	CTRICAL D	<u> </u>	<u>× /</u>	ELECTRICITY	
G No.	MANUFACTURER (AS STANDARD)	MODEL NO. (AS STANDARD)	LOCATION(S) SERVED	TYPE	INDOOR UNITS SERVED	MOD. (NO.)	CLG CAPACITY (MBH)	HTG-NOM CAPACITY (MBH)	HTG @ 5°F (MBH)	REFRIG.	EER2	VOLTS	PHASE	HZ	MCA	МОСР	WEIGHT (LBS)	REMARKS
P-1	DAIKIN	RXM12WVJU9	GATEHOUSE	AIR COOLED	FCU-1	1	12.0	13.6	13.6	R32	13.2	230	1	60	12.3	15	96	[1] [2] [3] [4] [5] [6] [7]
		INDOOR UNIT.																
						FAN	I COIL	. UNIT	SCHI	EDUL	E							FCU X REQUIRES ELECTRICI
000						UNIT CAPA	ACITY DATA	_	SCHI FAN D		E		ELECT	RICAL DA	TA			\longleftrightarrow
	MANUFACTURER (AS STANDARD)	MODEL NO. (AS STANDARD)	LOCATION(S) SERVED	TYPE	NO. UNITS			MIN. AIRFLOW (CFM)			ESP	VOLTS	ELECT	RICAL DA		моср	WEIGHT (LBS)	\longleftrightarrow
G No.	MANUFACTURER	MODEL NO.		TYPE WALL MOUNT		UNIT CAPA CLG CAPACITY	ACITY DATA HTG CAPACITY	MIN. AIRFLOW	FAN D MAX. AIRFLOW	ATA OA	ESP			HZ	MCA	МОСР	(LBS)	X ELECTRICI

										JULE						<u>x</u>	ELECTRICIT	Y
				INDOOR			UNI	T CAPACITY D	ATA	i	ELECTRICAL DATA					WEIGHT		
AG No.	MANUFACTURER (AS STANDARD)	MODEL NO. (AS STANDARD)	LOCATION(S) SERVED	TYPE	UNITS SERVED	MOD. (NO.)	CLG CAPACITY (MBH)	HTG-NOM CAPACITY (MBH)	HTG @ 5°F (MBH)	REFRIG.	EER2	VOLTS	PHASE	ΗZ	MCA	MOCP	WEIGHT (LBS)	REMARKS
HP-1	DAIKIN	RXM12WVJU9	GATEHOUSE	AIR COOLED	FCU-1	1	12.0	13.6	13.6	R32	13.2	230	1	60	12.3	15	96	[1] [2] [3] [4] [5] [6] [7]
,		PE SIZES AND LINE LENGT NTED MIN. 18" ABOVE GR/ INDOOR UNIT.				PROVED EQU	IVALENT.											
,	T PUMP SHALL BE MOU	NTED MIN. 18" ABOVE GRA					I COIL	. UNIT	SCHI	EDUL	E							FCU X REQUIRES ELECTRICITY
,	AT PUMP SHALL BE MOU IDOOR UNIT TO POWER	NTED MIN. 18" ABOVE GR/ INDOOR UNIT.	ADE ON HEAT PUMP SUF		KSLING OR AP	FAN		. UNIT	SCHI FAN D	_	E		ELECT	FRICAL DA	TA			
,	T PUMP SHALL BE MOU	NTED MIN. 18" ABOVE GRA				FAN		MIN. AIRFLOW (CFM)		_	E ESP ("W.C.)	VOLTS	ELECT	FRICAL DA	TA	МОСР	WEIGHT (LBS)	
7) ΟU ⁻	AT PUMP SHALL BE MOU IDOOR UNIT TO POWER	NTED MIN. 18" ABOVE GR/ INDOOR UNIT. MODEL NO.	ADE ON HEAT PUMP SUF	PPORT STANDS BY QUICK	KSLING OR AP	FAN UNIT CAPA CLG CAPACITY	I COIL ACITY DATA HTG CAPACITY	MIN. AIRFLOW	FAN D MAX. AIRFLOW	ATA OA	ESP			HZ	MCA	МОСР		X ELECTRICITY

PROVIDE WITH AUXILIARY CONDENSATE PUMP POWERED BY INDOOR UNIT, AND CONCEALED WITHIN FAN COIL UNIT CABINET ASSEMBLY.

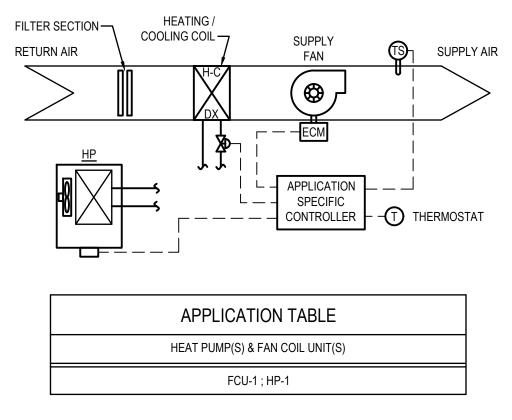
PIPE MATERIAL TABLE											
SYSTEM/SERVICE	LOCATION	PIPING	FITTINGS	JOINTS							
CONDENSATE DRAIN (CD)	ABOVE GRADE	TYPE 'L' COPPER	WROUGHT COPPER, NO LEAD	95/5 NO-LEAD SOLDER							
REFRIGERANT PIPING (RL & RS)	ABOVE GRADE	COPPER - ARC	COPPER, NO LEAD	BRAZED							

REFRIGERANT PIPE SIZE TABLE									
FROM UNIT NO.	TO UNIT NO.	REFRIGERANT	REFRIGERANT LIQUID PIPE (IN.)	REFRIGERANT SUCTION PIPE (IN.)	CONDENSATE DRAIN PIPE (IN.)				
HP-1	HP-1 FCU-1 R-410A 1/4" 3/8" 3/4"								
2) CONTRACTO	 CONTRACTOR SHALL PROVIDE REFRIGERANT PIPE FROM HEAT PUMP TO FAN COIL UNITS/COILS. CONTRACTOR SHALL PROVIDE CONDENSATE DRAIN PIPE FROM FAN COIL UNITS TO DRAIN(S) SHOWN. 								

PIPE INSULATION SCHEDULE

			IN	ISULATION WAL	L THICKNESS (IN	l.)			
SYSTEM/SERVICE	INSULATION TYPE	FITTINGS PIPE DIAMETER (IN.)							
		INOULATION ITTE	Ø<1	1 <u><Ø<1¹</u>	1 1 2<Ø <u><</u> 4	4<Ø			
CONDENSATE PIPING (CD)	ELASTOMERIC	ELASTOMERIC	1/2"	1/2"	3/4"	3/4"			
REFRIGERANT PIPING (RL & RS)	ELASTOMERIC	ELASTOMERIC	3/4"	1"	1"	1"			

MECHANICAL SEQUENCES OF OPERATION



HEAT PUMP & FAN COIL UNIT SEQUENCE OF OPERATION

THE HEAT PUMP AND FAN COIL UNIT SHALL BE CONTROLLED THROUGH THE APPLICATION SPECIFIC CONTROLLER, AND A CORRESPONDING SPACE THERMOSTAT. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

THE HEAT PUMP SHALL ENERGIZE AND OPERATE PER THE MANUFACTURER'S SEQUENCES. THE FAN COIL UNIT'S SUPPLY FAN(S) SHALL BE ENERGIZED AND OPERATE CONTINUOUSLY AT LOW SPEED.

HEATING MODE:

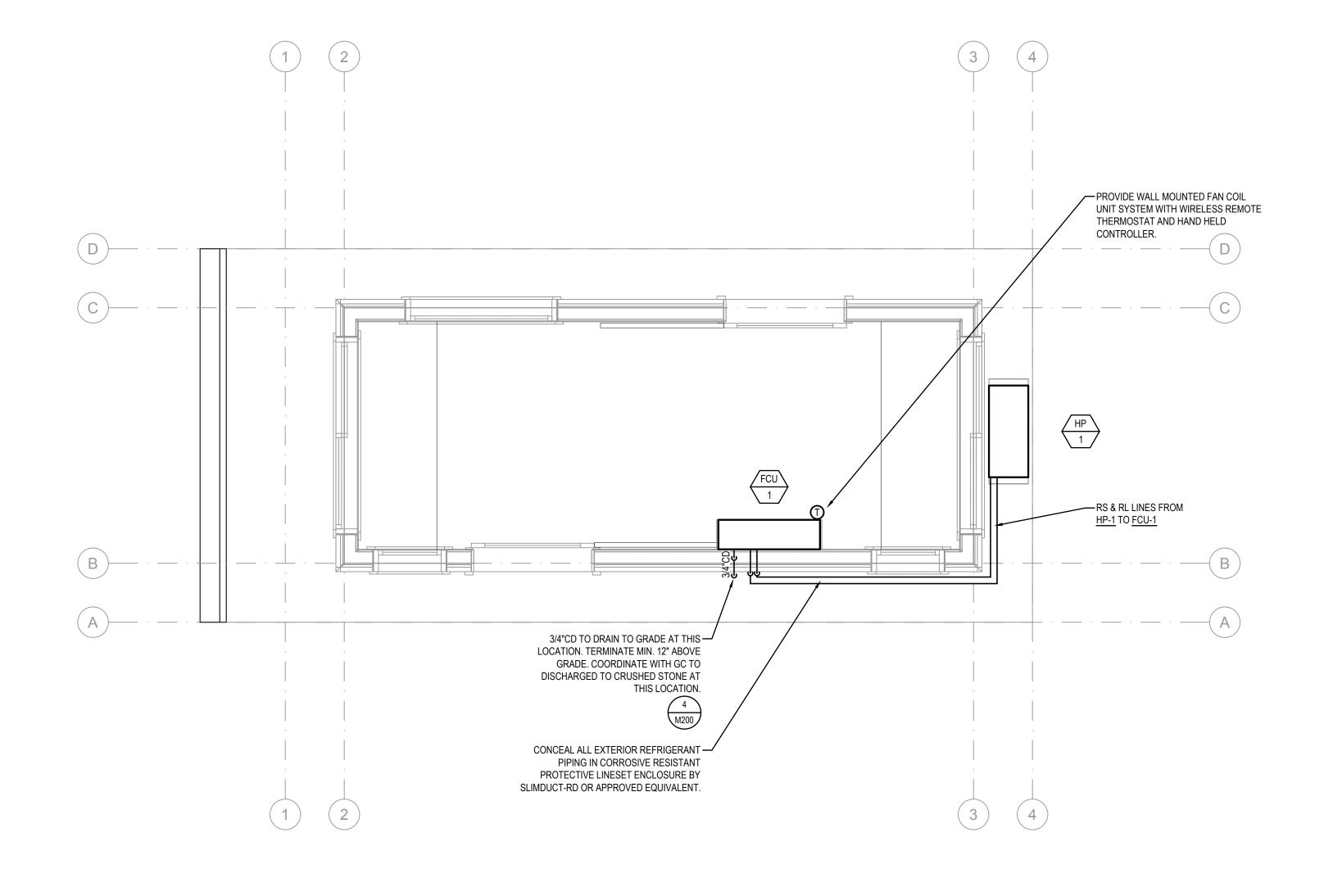
UPON A CALL FOR HEATING FROM THE SPACE THERMOSTAT, THE HEAT PUMP SHALL ENERGIZE. THE HEAT PUMP AND FAN COIL UNIT SHALL OPERATE AS REQUIRED THROUGH THE MANUFACTURER'S PACKAGED SEQUENCE OF OPERATION TO MAINTAIN THE SPACE TEMPERATURE SETPOINT OF 70°F (ADJ.). UPON A CALL FOR HEAT, THE FAN COIL UNIT(S) SUPPLY FAN SHALL INCREMENTALLY INCREASE FROM ITS LOW SPEED TO ITS HIGH SPEED SETTING AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

COOLING MODE:

UPON A CALL FOR COOLING FROM THE SPACE THERMOSTAT, THE HEAT PUMP SHALL ENERGIZE. THE HEAT PUMP AND FAN COIL UNIT SHALL OPERATE AS REQUIRED THROUGH THE MANUFACTURER'S PACKAGED SEQUENCE OF OPERATION TO MAINTAIN THE SPACE TEMPERATURE SETPOINT OF 75°F (ADJ.). UPON A CALL FOR COOLING, THE FAN COIL UNIT(S) SUPPLY FAN SHALL INCREMENTALLY INCREASE FROM ITS LOW SPEED TO ITS HIGH SPEED SETTING AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

								,	DESIGNER REVIEWER
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AVDI AN THONAN ADAUTTECTS			MECHANICAL SCHEDULES	AND SECHENCES OF OPERATION				GATEHOUSE	
Pf		J. N	lo.:	20	24(014			FREEPORT
Pf	<u>20.</u>	J. N E: 0	<u>lo.:</u> 99/2	20	24(014	9./	10	FREEPORT

le: J:/DWG/P2024/0149/A10/MEP/Mechanical/20240149.A10_M100 Gate House.dwg Layout: M-101 Plotted: 2024-09-17 3:05 PM Saved: 2024-08-28 3:52 PM User: Christopher.Wilk

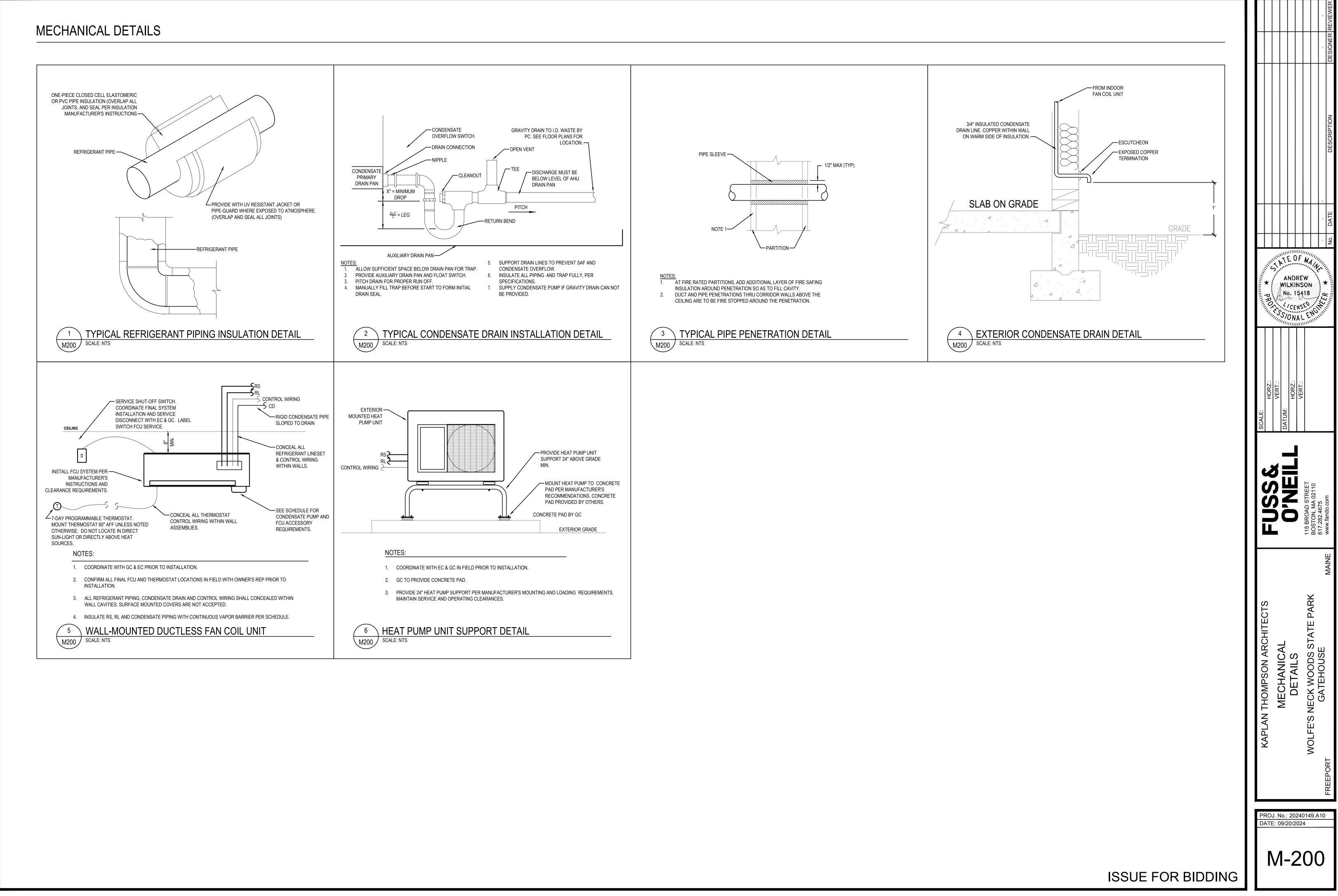


1) MECHANICAL GATEHOUSE FLOOR PLAN SCALE: 1/2" = 1'-0" MECHANICAL PLAN NOTES:

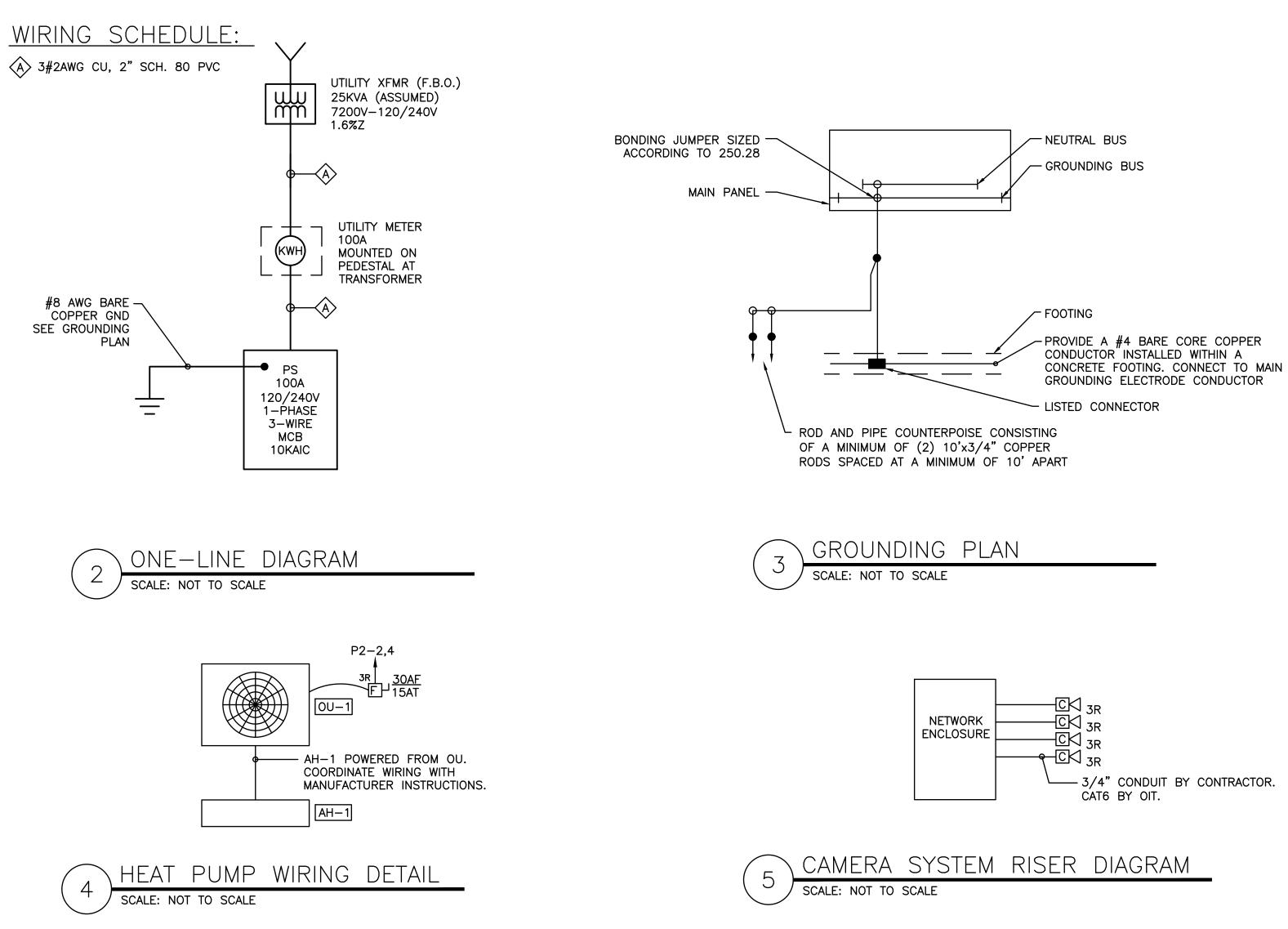
- 1. REFER TO MECHANICAL SPECIFICATIONS FOR FURTHER DETAILS
- COORDINATE ALL EQUIPMENT LOCATIONS WITH EC IN FIELD PRIOR TO INSTALLATION.
- 3. INSTALL EQUIPMENT AND SYSTEMS PER CODE AND PER MANUFACTURER'S INSTRUCTIONS.
- 4. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR TO INSPECT AND VERIFY ALL INFORMATION IN FIELD AND INFORM THE ENGINEERS OF ANY DISCREPANCIES IN WRITING IMMEDIATELY.
- ALL EXTERIOR REFRIGERANT PIPING SHALL BE CONCEALED IN PROTECTIVE LINESET ENCLOSURE SYSTEM. REFRIGERANT PIPING AND HP UNIT CONNECTIONS SHALL BE CONCEALED WITHIN PVC UV PROTECTIVE JACKETING.
- CONTRACTOR SHALL CONFIRM ALL REFRIGERANT PIPE SIZING AND LINESET ROUTING LENGTH REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- ALL HVAC CONDENSATE DRAIN PIPING SHALL BE INSULATED. COORDINATE FINAL DRAIN DISCHARGE LOCATIONS WITH PLUMBING CONTRACTOR.
- 8. ALL CONDENSATE PIPING SHALL PITCH IN THE DIRECTION OF FLOW IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- 9. ALL CONDENSATE PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- ALL REFRIGERANT AND CONDENSATE PIPING JOINTS, VALVES, AND FITTINGS SHALL BE INSULATED. SEE HVAC PIPING INSULATION SCHEDULE FOR DETAILS.

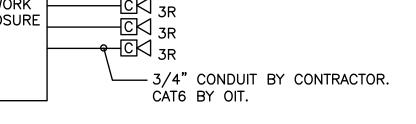


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SCALE: HORZ.:		HORZ.:	VERT.:				
				115 BROAD STREET	BOSTON, MA 02110	617.282.4675	www.tando.com
S							MAINE
KAPLAN THOMPSON ARCHITECTS	MECHANICAL	GATEHOUSE PI FAN		איטן בביג אבטע איטטעג גדעדב מעמע	WOLLE & NEON WOODS STATE FAF	GATEHOUSE	FREEPORT
	J. No.: E: 09/2				9.A	10	
	M	_	1	()	1	



POWE	<u>r symbols</u>	SYSI	<u>EMS SYMBOLS</u>	KEYED NOTES:
Ŧ	GROUND CONNECTION	V	COMBINATION VOICE/DATA SYSTEM OUTLET	(1) MOUNT RECEPTACLE ABOVE LOWER RECEPTACLE, DIRECTLY BELOW WINDOW.
LP1-2	HOME RUN TO PANEL (CKT. NO. AS SHOWN) TRANSFORMER		CAMERA	(2) DATA BOX: INSTALL HUBBELL REMOTE EQUIPMENT BOX (FURNISHED BY OIT) AND RECESSED MOUNTING KIT. INSTALL 2" ENT (SMURF TUBE) CONDUIT FRO A TOP TUB KNOCKOUT TO ABOVE ATTIC INSULATION. INSTALL 20A QUAD RECEPTACLE IN BOTTOM RIGHT CORNER OF BOX IN 4" SQUARE BOX, MARRIE TO THE KNOCKOUT IN THE BOTTOM OF THE TUB. BOND ENCLOSURE TO BUILDING GROUND.
=	20 AMPERE, 120 VOLT DUPLEX GFCI RECEPTACLE, +18" AFF			3 CAMERA: HONEYWELL 35 SERIES SMP FIXED BALL CAMERA WITH 30 SERIES EMBEDDED NVR. FURNISH AND INSTALL HONEYWELL MODEL HA60JCBH1 JUNCTION BOX FOR CAMERA INSTALLATION BY OIT.
+	20 AMPERE, 120 VOLT DUPLEX RECEPTACLE, +18" AFF			$\langle 4 \rangle$ see site plan for location of utility pad mount transformer.
#	20 AMPERE, 120 VOLT DOUBLE DUPLEX RECEPTACLE, +18" AFF			
J	JUNCTION BOX			
	FUSED SAFETY SWITCH, RATING AS NOTED FRAMESIZE FUSE/TRIP NEMA RATING UTILITY KWH METER			4 TO METER & PAD MOUNTED TRANSFORMER 6 $P2-8$ 6 $P2-8C$ $P2-6C$ $P2-6$
LIGHTI	NG SYMBOLS STRIP/WRAP LIGHT FIXTURE ROUND SURFACE MOUNTED FIXTURE WALL MOUNTED LIGHTING FIXTURE WALL MOUNTED TOGGLE SWITCH — 3 = 3-WAY (WHERE NOTED) D = DIMMER (WHERE NOTED)			$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
				$1 = \frac{1}{1 \text{ SCALE: } 1/2" = 1'-0"}$



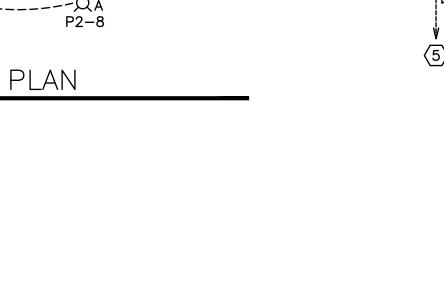


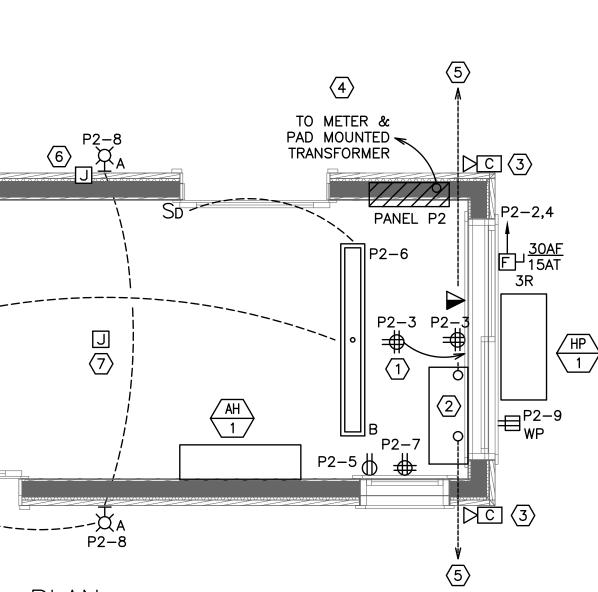
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		<u>LIGHTING</u> SC	HEDULE		
TYPE	DESCRIPTION	MANFACTURER	LAMPS	MOUNTING	NOTES
А	WALL MOUNTED SECURITY LED FLOOD LIGHT WITH PHOTOCELL & PIR MOTION SENSOR. 120V	LITHONIA LIGHTING	25W LED 4000K 2750 LUMENS	WALL SURFACE	MODEL #: HGX-LED-2RH-40K-120-MO-DOB-M2
В	4' LED DIMMABLE STRIP LIGHT WITH LOW GLARE DIFFUSE LENS. 120V	LITHONIA LIGHTING	36W LED 3500K 4732 LUMENS	CEILING SURFACE	MODEL #:CSS-L48-AL03-MVOLT-SWW3-80CRI
	EMERGENCY BATTERY UNIT 120V	DUAL-LITE	2W LED	WALL SURFACE	MODEL #: EV4D-02L

SCALE: NOT TO SCALE





- (5) INSTALL 2" SCH. 80 PVC CONDUIT FROM THE DATA SLAB BOX-OUT TO 10' OFF OF THE SIDE OF THE ROAD ON BOTH SIDES. USE LONG SWEEP 90 AT THE BOX OUT. CAP BOTH ENDS FOR FUTURE USE. INSTALL 30" BELOW GRADE MINIMUM.
- $\overline{(6)}$ INSTALL RECESSED 2" X 4" RECESSED BOX IN WALL 18" AFF. RUN 2" ENT WITH PULL STRING TO SECOND 2" X 4" RECESSED BOX AT EXTERIOR OF BUILDING, 6" BELOW EAVE PEAK FOR ANTENNA WIRE TO BE INSTALLED BY OIT.
- $\langle 7 \rangle$ 4" OCTAGONAL BOX FOR WIFI. INSTALL 3/4" CONDUIT & PULL STRING TO DATA BOX. CAT 6 BY OIT.

	•	в	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	_	P	1	
DIRECTORY	Α	в				ā		A	В		DIRECTORY
FRONT RECEPTACLES	0.8		1	20	A	20	2	1.4		HEAT PUMP & IND	OOR UNIT
BACK RECEPTACLES		0.8	3	20	В		4		1.4		
SIDE WALL RECEPTACLES	0.8		5	20	A	20	6	0.1		INTERIOR LIGHTING	
DATA BOX RECEPTACLES		0.4	7	20	В	20	8		0.1	EXTERIOR LIGHTING	•
EXTERIOR RECEPTACLE	0.2		9	20	A	20	10	*		SPARE	
SPARE		*	11	20	В	20	12		*	SPARE	
SPARE	*		13	20	A	20	14	*		SPARE	
SPARE		*	15	20	В	20	16		*	SPARE	
SPARE	*		17	20	Α	20	18	*		SPARE	
SPARE		*	19	20	В	20	20		*	SPARE	
SPARE	*		21	20	Α	20	22	*		SPARE	
SPARE		*	23	20	В	20	24		*	SPARE	
SPARE	*		25	20	Α	20	26	*		SPARE	
SPARE		*	27	20	В	20	28		*	SPARE	
SPARE	*		29	20	Α	20	30	*		SPARE	
SUBTOTAL	1.6	1.2						1.5	1.5	SUE	BTOTAL
VOLTAGE: 120Y/240V PHASE: 1		POL	ES: 3		TOTAL	_ KVA A	-PHASE	3	.1	PANEL	P2
MAIN BREAKER: 100A		BUS	AMPS:	100A	TOTAL KVA B-PHASE 3.7			FANEL	F2		
MOUNTING: RECESSED										LOCATION	GATEHO
SHORT CIRCUIT RATING: 10KAIC						тот	TAL KVA	6	.8	LOCATION	GATER
	6)-				HED	ULE					
	\mathcal{I}	SCALE	: NOT	TO SC	ALE						

- ING KIT. INSTALL 2" ENT (SMURF TUBE) CONDUIT FROM I RIGHT CORNER OF BOX IN 4" SQUARE BOX, MARRIED

GENERAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE.

2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).

3. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.

4. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE, GROUNDING TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.

5. DEVICE COVERPLATES SHALL BE BRUSHED STAINLESS STEEL TYPE.

6. UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE 2#12AWG & #12GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET (FOR 120V CIRCUITS) SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.

7. CONDUIT SYSTEMS: EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT.

8. MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS FOLLOWS: CONVENIENCE RECEPTACLES: 24" AFF TO BOTTOM OF BOX, UNLESS NOTED OTHERWISE LIGHTING TOGGLE SWITCHES: 48" AFF TO TOP OF BOX

LIGHTING SCHEDULE

Kaplan Thompson Architects

102 Exchange Stree Portland, ME 04101 (207) 842-2888 kaplanthompson.

PROJECT

Wolfe's Neck Woods State Park Gatehouse

Wolfe's Neck Road Freeport, ME 04032

CIVIL ENGINEER Gorrill Palmer 300 Southborough Drive, Suite 200 South Portland, ME 04106 p: 207-772-2515

LANDSCAPE ARCHITECT Richardson Associates 11 Middle Street Saco, ME 04072 p: 207 286-9291

STRUCTURAL ENGINEER Trillium Engineering Group 189 Main Street, Suite 200 Yarmouth, ME 04096 p: 207 307-0872

MECHANICAL & PLUMBING ENGINEER Fuss & O'Neill 115 Broad Street 6th Floor Boston, MA 02110 p: 617 674-5234

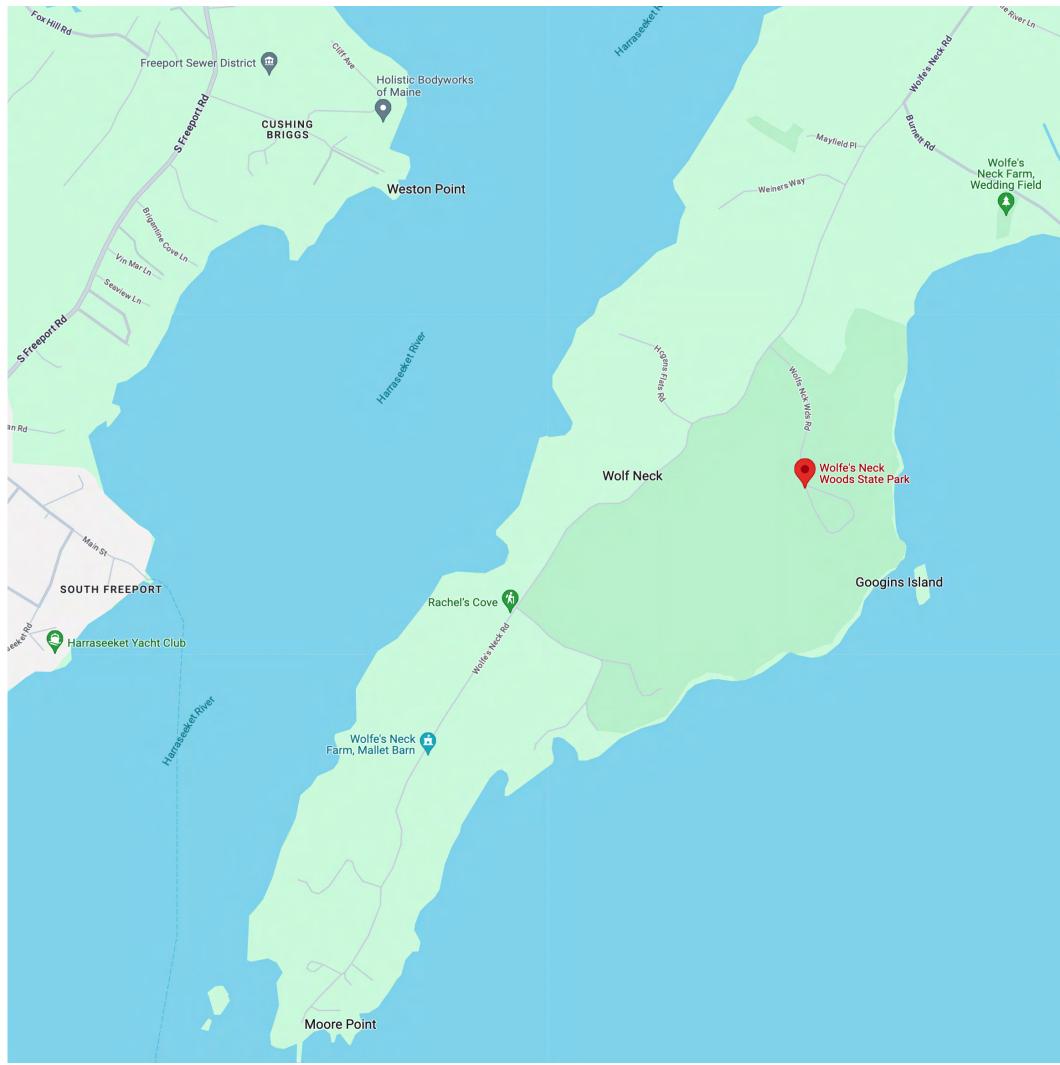
ELECTRICAL ENGINEER Swiftcurrent Engineering Services, Inc. 10 Forest Falls Drive Yarmouth, ME 04096 p: 207 847-9280



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Electrical Plans





FREEPORT, MAINE

E	BATHF	OUSE DRAWING INDEX
GENERAL		
		COVER SHEET
		GENERAL NOTES
ARCHITEC	TURAL	
	A-1.2	FLOOR PLANS
	A-2.1	ELEVATIONS
	A-3.1	BUILDING SECTIONS
	A-3.2	BUILDING SECTIONS
	A-3.3	W-S LONG BUILDING SECTION
	A-5.1	DETAILS
	A-6.1	INTERIOR ELEVATIONS
	A-8.1	WINDOW + DOOR SCHEDULE
	A-9.1	PERSPECTIVES
MECHANIC	AL	
	M-001	MECHANICAL GENERAL NOTES + LEGEND
	M-002	MECHANICAL SCHEDULES, SEQUENCES OF OPERATION + DETAILS
	M-101	MECHANICAL BATHHOUSE PLAN
	M-200	MECHANICAL DETAILS AND SEQUENCES OF OPERATION
ELECTRICA	۹L	
	E-1	ELECTRICAL PLANS
PLUMBING		
	P-001	PLUMBING GENERAL NOTES AND LEGEND
	P-002	PLUMBING SCHEDULE
	P-003	PLUMBING DETAILS
	P-100	PLUMBING BATHHOUSE PLAN
	P-200	PLUMBING DOMESTIC WATER RISER DIAGRAM

Wolfe's Neck Woods State Park Bathhouse

Project Information

Department of Agriculture, Conservation and Forestry CLIENTS 3510 BGS PROJECT NUMBER Kaplan Thompson Architects TBD CONTRACTOR Map 024, Lot 28B, Book 1857, Page 31

ARCHITECT

MAP/LOT

PROJECT ADDRESS

Zoning Information

Rural Residential II - RR2 / Shoreland Overlay ZONING 35'-0" MAX. BUILDING HEIGHT IBC 2015, IMC 2015, UPC 2015, MUBEC+IECC 2021 **BUILDING CODE** Open Space OCCUPANCY

Proposed Structure UTILITY - Public Restroom/Mechanical Room 16'-0" 784 SF

PROPOSED OCCUPANCY: PROPOSED BUILDING HEIGHT: PROPOSED GROSS SF:

426 Wolfe's Neck Rd, Freeport, ME 04032

Kaplan Ihompson Architects

102 Exchange Stree Portland, ME 04101 (207) 842-2888 kaplanthompson.com

PROJECT

Wolfe's Neck Woods State Park Bathhouse

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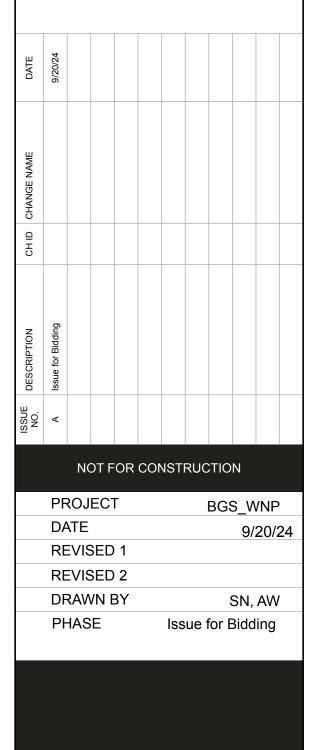
LANDSCAPE ARCHITECT **Richardson Associates** 11 Middle Street Saco, ME 04072 p: 207 286-9291

STRUCTURAL ENGINEER
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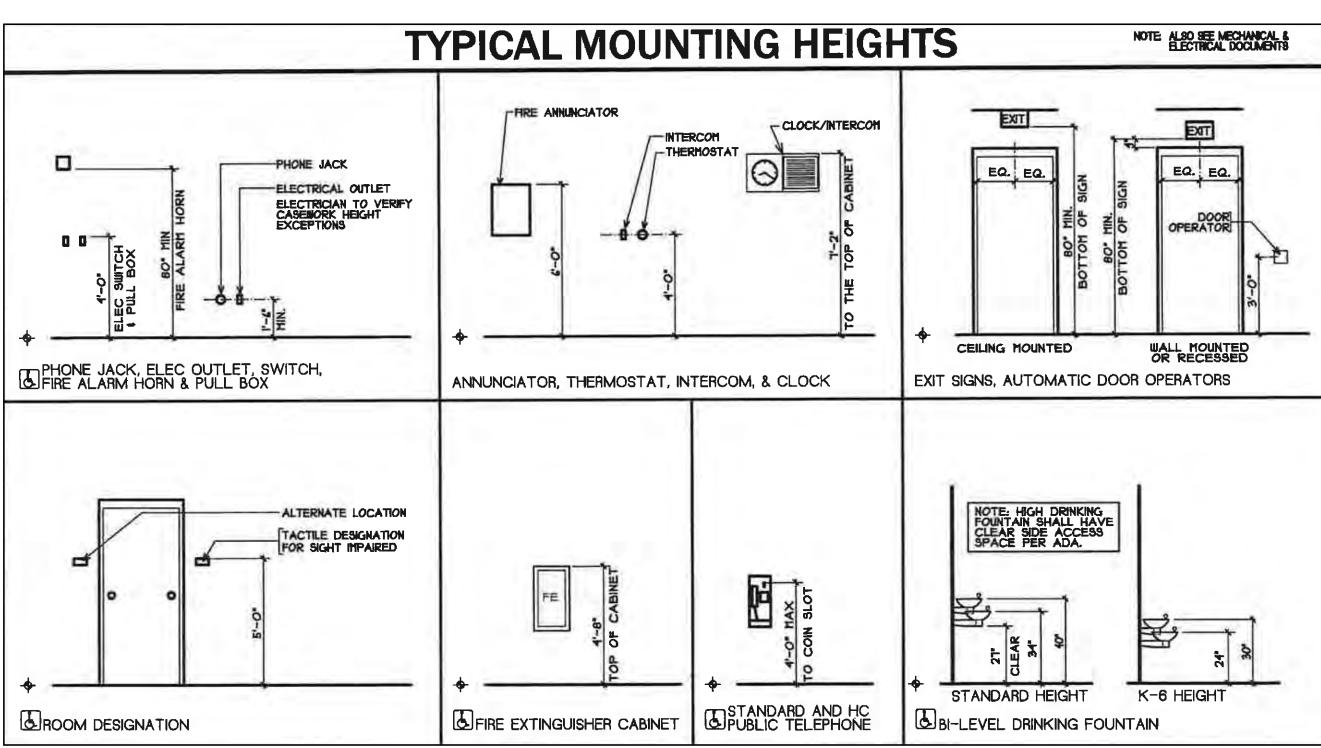
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ELECTRICAL ENGINEER Swiftcurrent Engineering Services, Inc. 10 Forrest Falls Drive Yarmouth, ME 04096 p: 207 847-9280





COVER SHEET



	A	BBR	EVIATIONS		
AB	ANCHOR BOLT	FEC	FIRE EXTINGUISHER CABINET		PARTICLE BOARD
ACT	ACOUSTICAL TILE	FIN	FINISH	PC	PIECE
ADA	AMERICANS WITH DISABILITIES ACT	FL, FLR	FINISH FLOOR FACE OF STUD FOOT FOOTING	PL	PLATE, PROPERTY LINE
ADDL	ADDITIONAL	FOS	FACE OF STUD	PLAS	PLASTER
ADMIN	ADMINISTRATION	FT ()	FOOT		PLASTIC LAMINATE
AFF	ABOVE FINISHED FLOOR	FTG	FOOTING		PLYWOOD
ALT	ALTERNATE			PNT	PAINT (ED)
ALUM	ALUMINUM	GA	GAUGE	POLY	POLYETHYLENE
AP	ACCESS PANEL	GC	GENERAL CONTRACTOR	PRE	PRE-FINISHED
APV	ASPHALT PAVER	GL	GLASS	PREP	PREPARATION
ARCH	ARCHITECT	GWB	GYPSUM WALL BOARD	PSF	POUNDS PER SQUARE FOOT
		GYP	GYPSUM	PSI	POUNDS PER SQUARE INCH
BD	BOARD			P.T.	PRESERVATIVE TREATED
BIT	BITUMINOUS	HD	HIGH DENSITY	PVMT	PAVEMENT
BLDG	BUILDING	HA	HOUR		
BLKG	BLOCKING	HC	HANDICAPPED	QT	QUARTZ TILE
BM	BENCH MARK	HDWR	HARDWARE	1.0	
BRG	BEARING	HFS	HALF FULL SCALE	R	RADIUS; RISER; RANGE
BSMT	BASEMENT	H, HGT	HEIGHT	RD	ROOF DRAIN
BTW	BETWEEN	HM	HOLLOW METAL	REC	RECREATION
		HOR	HORIZONTAL	RECT	RECTANGULAR
CAB	CABINET	HTG	HEATING	REF	REFERENCE; REFER
СВ	CATCH BASIN	HVAC	HEATING/VENTILATION/AIR CONDITIONING	REQD	REQUIRED
CEM	CEMENT	HW	HOT WATER	REFR	REFRIGERATOR
CER	CERAMIC	HYD	HYDRANT	REINF	REINFORCING
CF	CUBIC FEET			RESIL	RESILIENT
CJ	CONTROL JOINT	INCL	INCLUDE (D); INCLUDING	REV	REVISED; REVISION
CL	CLOSET	ID		RFG	
CLG	CEILING	IN (*)		RHM	RADIANT HEAT MANIFOLD
CMU	CONCRETE MASONRY UNIT	INSUL	INSULATE (D); INSULATION	RM	ROOM
CO	CLEANOUT	INT	INTERIOR	RO	ROUGH OPENING
COL	COLUMN	INV	INVERT	RP	
CONC	CONCRETE	IANI		RWL	RAIN WATER LEADER
CONST	CONSTRUCTION	JAN JT	JANITOR JOINT	~	
CONT	CONTINUE, CONTINUOUS	51	JOINT	8	SOUTH; SINK
CORR	CORRUGATED		KITCHEN	SAN	SANITARY
COORD.	COORDINATE	KD KD	KILN DRYED	SC	SOLID CORE
CPT	CARPET		REN BITEB	SD	STORM DRAIN SECTION
CRS	COURSE (S)	1 44 4		SECT SF	SQUARE FOOT
CT	CERAMIC TILE			SHT	SHEET
CTV	CABLE TELEVISION LINE		LAVATORY LEAD-COATED COPPER	SIM	SIMILAR
CUH	CABINET UNIT LEADER	LDR	LADDER	SPEC	SPECIFICATION (S)
CW	COLD WATER	LF		STC	SOUND TRANSMISSION COEFFICIEN
CY	CUBIC YARD	LGT	LIGHT	STD	STANDARD
D	DRYER	LIN	LINEN	STL	STEEL
DBL	DOUBLE	C		STOR	STORAGE
DEFL	DEFLECTION			SUSP	SUSPENDED
DE	DRINKING FOUNTAIN	MATL	MATERIAL	3031	
DIA	DIAMETER	MAS	MASONRY	т	TREAD
DIAG	DIAMETER	MAX	MAXIMUM	TEL	TELEPHONE
DIAG	DIMENSION	MC	MASONRY COURSE	TEL-P	PAY TELEPHONE
DIR	DIRECTOR	MECH	MECHANICAL	TEMP	TEMPERATURE; TEMPERED
DIV	DIVISION	MED	MEDICAL	T&G	TONGUE AND GROOVE
DN	DOWN	MFR	MANUFACTURER	TH	THICKNESS
DV	DISPLACEMENT VENTILATOR	MGR	MANAGER	то	TOP OF
DWG	DRAWING	MH	MANHOLE	ŤV	TELEVISION
2.114		M	MIRROR	TYP	TYPICAL
E	EAST	MIN			
ĒA	EACH	MISC		UL	UNDERWRITERS LABORATORIES
EF	EXHAUST FAN	MO	MASONRY OPENING	UTIL	UTILITY
EJ	EXPANSION JOINT	MR	MOISTURE RESISTANT		
EL	ELEVATION	MTD	MOUNTED	VR	VAPOR BARRIER
ELEV	ELEVATOR	MTG	MOUNTING	VB VCT	VINYL COMPOSITION TILE
ELEC	ELECTRIC (AL)	MTL	METAL	VENT	VENTILATOR
EQ	EQUAL		NORTH	VERT	VERTICAL
ĔŴ	EYE WASH	N NAT1	NORTH	VEST	VESTIBULE
EWC	ELECTRIC WATER COOLER	NATL	NATURAL	VR	VAPOR RETARDER
EXAM	EXAMINATION	NIC			and the second state of the first first state of the second state
	EXISTING	NL	NIGHT LIGHT	w	WEST; WATER; WASHER; WIDTH
EXP	EXPANSION	NO		ŵ/	WITH
EXT	EXTERIOR		NOURISHMENT	W/D	WASHER DRYER
		NTS	NOT TO SCALE	wc	WATER CLOSET
FV	FIELD VERIFY	~	OVERALL	WD	WOOD
FAP	FIELD VERIFY FIRE ALARIM PULL STATION	OA .	OVERALL	W/O	WITHOUT
FBO	FBO - FURNISHED BY OTHERS	00	ON CENTER	ŴŴM	WELDED WIRE MESH
FCO	FLOOR CLEAN OUT	OD		** ** !*!	
FD	FLOOR DRAIN	OH	OPPOSITE HAND	XEPS	EXTRUDED POLYSTYRENE
	FOUNDATION	OPP OXY	OPPOSING OXYGEN		
FDN					

General Notes:

1. General contractor shall verify all dimensions and report any discrepancies to the architect before proceeding with work. Do not scale drawings. Work from dimensions only.

2. All masonry dimensions are nominal and are to face of masonry. All partition dimensions are to face of stud except where noted.

3. Provide appropriate reinforcing within partitions for support of all grab bars, shelving brackets, cabinets, door frames, water coolers, lockers, fire extinguishers, cork boards, writing boards, exterior lighting, siding, hose bibs, bells, and all other wall mounted equipment or appliances indicated in documents.

4. All door frames shall be located a minimum of 3" off adjoining walls except where noted or dimensioned otherwise. 4" masonry at masonry veneer walls.

8. Before penetrating or otherwise modifying joists, beams, or other structural members consult with the architect/structural engineer on maximum size and location.

9. Concrete slabs shall slope to floor drains for positive drainage. Verify with water test. Coordinate location of floor drains with mechanical

10. Provide double wood studs at all door frames in wall assemblies.

12. All materials in this building shall be new and not previously used unless approved by architect.

13. All penetrations through Fire & Smoke Rated walls and floor /ceiling assemblies shall be fire-stopped by specific subcontractor requiring penetration.

14. All penetrations through Air Barriers shall be air sealed by specific subcontractor requiring penetration.

15. Access panels shall be fire rated where wall is fire rated.

17. A 'construction permit' from the state fire marshall's office is required for this project. To be completed by architect.

18. It is the Contractors responsibility to ensure all electircal and plumbing and mechanical permits and inspections are performed.

	L	EGEND (ARCHITECTUR	AL DRAWINGS)	
	٨	WINDOW TYPE		COMPACTED GRAVEL
BUILDING SECTION NUMBER	(A)	COLUMN GRID LINE		CONCRETE
	2	EQUIPMENT REFERENCE	7///////	BRICK
WALL SECTION NUMBER	\wedge	REVISION		CONCRETE MASONRY UNITS
SHEET NO. WHERE SHOWN		POWER PANEL IN WALL	2222	FINISH WOOD
INTERIOR ELEVATION NUMBER	FEC	FIRE EXTINGUISHER SEMI RECESSED/RECESSED		ROUGH WOOD
3 SHEET NO, WHERE SHOWN	FEC	FIRE EXTINGUISHER SURFACE MOUNTED	*****	FIBERGLASS BATT INSULATION
ROOM FINISH KEY	TEL-P	PAY TELEPHONE		RIGID INSULATION
101.1 DOOR NUMBER { RM * 101 DOOR * 1	DF	DRINKING FOUNTAIN		SUSPENDED ACOUSTICAL PANEL
]			RADIANT HEAT MANIFOLD

Concrete Notes:

1. ALL WORK SHALL CONFORM TO IBC 2015 REFERENCED EDITIONS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).

2. REQUIRED CONCRETE PARAMETERS ARE AS FOLLOWS:

LO	CATION	MAX W/C RATIO	f'c	AIR-ENTRAINMENT
FO	UNDATIONS, FOOTINGS,			50/ 4/00/
٨F	OUNDATION WALLS	.45	3,500 PSI	<u>5% ± 1 1/2%</u>
	E SLAB ON GRADE	.45	3,000 PSI	<u> 2% ± 1 1/2%</u>
EX	T. SLAB-ON-GRADE	.45	4,500 PSI	5% ± 1 1/2%



WHERE: W/C = WATER TO CEMENT RATIO AND fc = COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS

USE PORTLAND CEMENT TYPE IL, IN CONFORMANCE WITH ASTM 150

AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C 260 ADMIXTURES SHALL CONFORM TO ASTM C 494 FLY ASH USED AS ADMIXTURES SHALL CONFORM TO ASTM C 618

3. MAXIMUM AGGREGATE SIZE SHALL BE 3/4", IN CONFORMANCE WITH ASTM C33.

4. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE IS NOT PERMITTED

5. MAXIMUM SLUMP AFTER THE ADDITION OF A WATER-REDUCING ADMIXTURE IS 6 INCHES.

6. CONTRACTOR SHALL NOT PLACE CONCRETE ON FROZEN GROUND OR IN WATER. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING NEAR-FREEZING OR FREEZING WEATHER, REFERENCE ACI 306, AS NOTED ABOVE, FOR RECOMMENDATIONS FOR COLD WEATHER CONCRETING.

7. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL NOT EXCEED A SPACING OF 40 FEET, U.N.O.

ANCHOR BOLTS SHALL BE HEADED RODS AND CONFORM TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, U.N.O. ON DRAWINGS. PROVIDE GALVANIZED ANCHOR BOLTS WHERE IN CONTACT WITH PRESSURE TREATED LUMBER.

9. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS.

10. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 AND BE PROVIDED IN FLAT SHEETS. PROVIDE ADEQUATE SUPPORT FOR WWF TO ENSURE PROPER LOCATION WITHIN SLAB DURING CONCRETE PLACEMENT.

11. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS: A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 INCHES B. FORMED CONCRETE IN CONTACT WITH EARTH OR EXPOSED TO WEATHER 2 INCHES C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER IN SLABS & WALLS 11/2 INCHES

12. WELDING OF REINFORCEMENT IS NOT PERMITTED.

13. PROVIDE NON-SHRINK GROUT BENEATH LEVELING PLATES & BEARING PLATES w/ MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS.

14. PROVIDE CONTINUOUS REINFORCEMENT AT ALL CORNERS AND INTERSECTIONS, SEE TYPICAL FOUNDATION WALL DETAILS ON FOUNDATION DETAILS SHEET.

15. REINFORCING BARS AND ALL EMBEDDED ITEMS, INCLUDING ANCHOR BOLTS, MUST BE ACCURATELY PLACED AND ADEQUATELY SECURED BEFORE CONCRETE IS PLACED. "WET SETTING" OF STEEL COLUMN ANCHOR BOLTS INTO CONCRETE IS STRICTLY PROHIBITED.

16. UNLESS NOTED ON DRAWINGS, FOLLOW ACI STANDARDS FOR LAP SPLICE LENGTHS OF REINFORCING BARS.

REBAR LAP SPLICE TABLE									
BAR SIZE	#3	#4	#5	#6	#7	#8	#9		
3000 & 3500 PSI CONCRETE	18"	24"	30"	36"	48"	56"	64"		
4500 PSI CONCRETE	16"	20"	24"	30"	40"	48"	54"		

FOUNDATION NOTES:

1. FOUNDATIONS HAVE BEEN DESIGNED USING A PRESUMED ALLOWABLE BEARING PRESSURE PER TABLE 1806.2 OF THE INTERNATIONAL BUILDING CODE BASED ON TYPICAL SOILS FOUND IN THIS AREA. IF CLAY, MUD, ORGANIC SILT, PEAT OR UNPREPARED FILL IS FOUND DURING CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY, AS THE ALLOWABLE LOADS USED IN DESIGN WILL NEED TO BE VERIFIED BY A GEOTECHNICAL ENGINEER. TRILLIUM ENGINEERING GROUP RECOMMENDS PROCURING A GEOTECHNICAL ENGINEER TO VERIFY EXISTING SOIL CONDITIONS.

2. ALLOWABLE SOIL BEARING CAPACITY USED IN DESIGN = 2,000 PSF

3. EXCAVATION, BACKFILL, COMPACTION, GRADATION REQUIREMENTS, FOUNDATION DRAINAGE AND PERMANENT DEWATERING REQUIREMENTS SHALL BE PROVIDED BY A GEOTECHNICAL ENGINEER.

4. CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED ON A MINIMUM 12" THICK LAYER OF PROPERLY COMPACTED STRUCTURAL FILL, UNLESS OTHERWISE DIRECTED BY A GEOTECHNICAL ENGINEER.

5. FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL AND STRUCTURAL ENGINEER IF ANY UNSUITABLE SOILS ARE ENCOUNTERED PRIOR TO PLACING FOUNDATIONS.

6. FOUNDATION WALLS AND SLAB -ON-GRADES SHALL REACH THEIR FULL 28 DAY COMPRESSIVE STRENGTH PRIOR TO BACKFILLING. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING/BRACING FOR WALLS WHEN BACKFILL IS PLACED PRIOR TO CONCRETE ACHIEVING ITS FULL 28 DAY STRENGTH. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING/BRACING FOR WALLS AND OTHER STRUCTURAL ELEMENTS PRIOR TO INSTALLATION OF PERMANENT BRACING/FLOOR/STRUCTURE.

7. PROTECT FOUNDATIONS FROM FROST AND KEEP BOTTOM OF TRENCH DRY DURING CONSTRUCTION. IF GROUNDWATER IS ENCOUNTERED NEAR OR ABOVE THE BASE OF THE FOOTINGS, EXCAVATIONS SHALL BE DEWATERED DURING CONSTRUCTION. SURFACE WATER SHALL BE DIVERTED AWAY FROM EXCAVATIONS.

8. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ADJACENT STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING, BRACING AND UNDERPINNING OF EXISTING STRUCTURES DURING EXCAVATION, BACKFILLING, AND CONSTRUCTION. CONTRACTOR SHALL SLOPE EXCAVATIONS TO ACHIEVE SOIL STABILITY.

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Architects	

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PROJECT

Wolfe's Neck Woods State Park Bathhouse

426 Wolfe's Neck Road Freeport, ME 04032

CIVIL ENGINEER Gorrill Palmer 300 Southborough Drive, Suite 200 South Portland, ME 04106 p: 207-772-2515

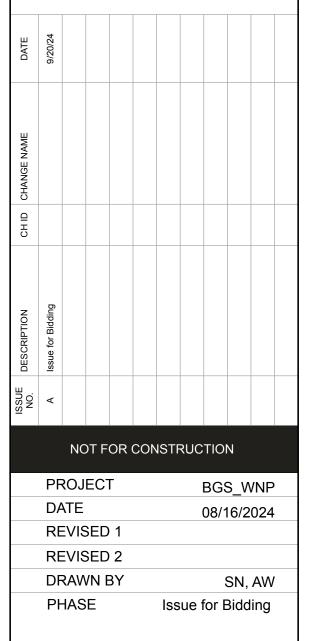
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ELECTRICAL ENGINEER Swiftcurrent Engineering Services, Inc. 10 Forrest Falls Drive Yarmouth, ME 04096 p: 207 847-9280

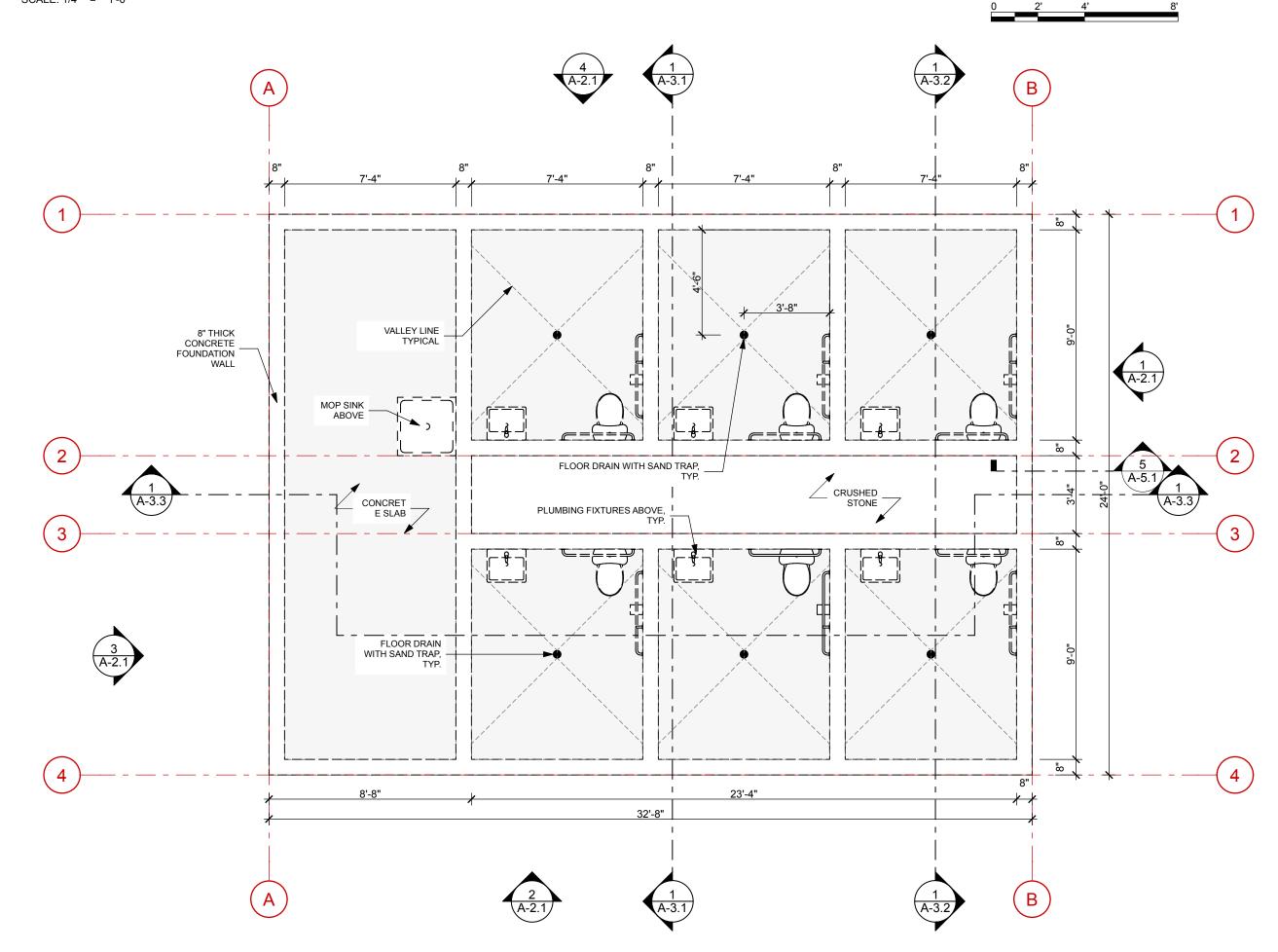


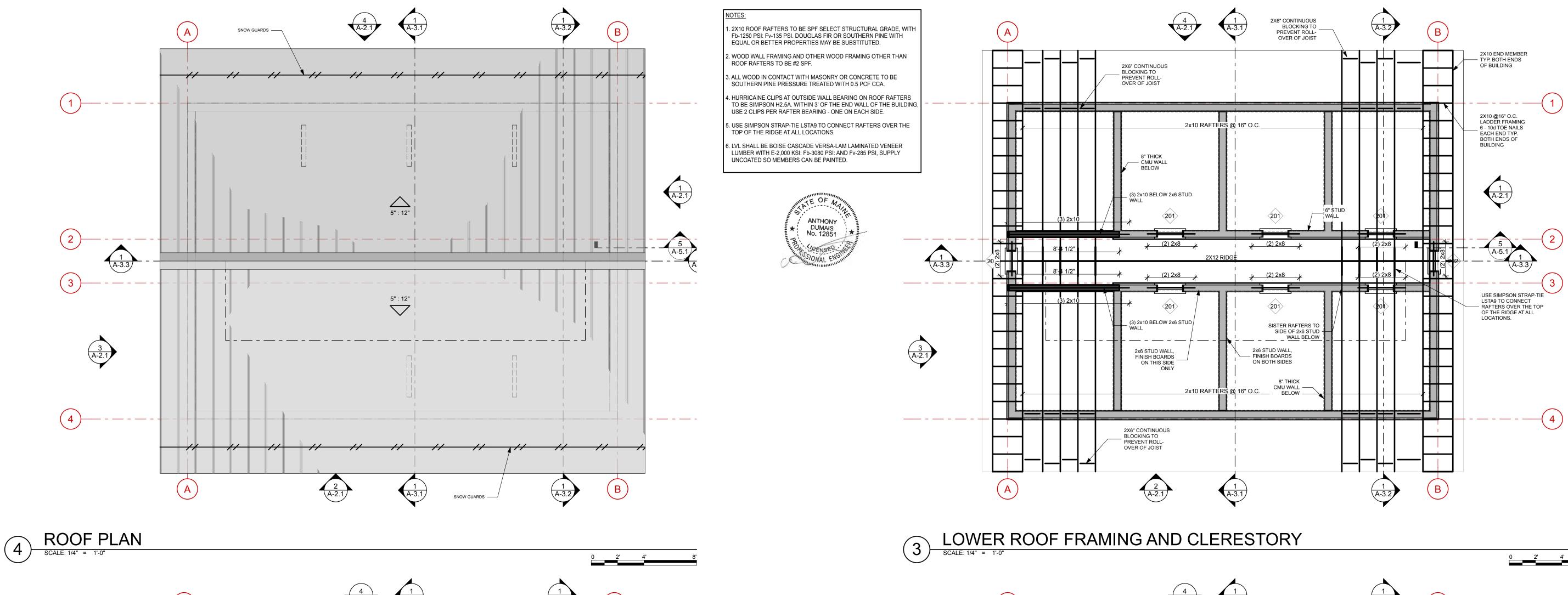


) FOUNDATION PLAN SCALE: 1/4" = 1'-0"

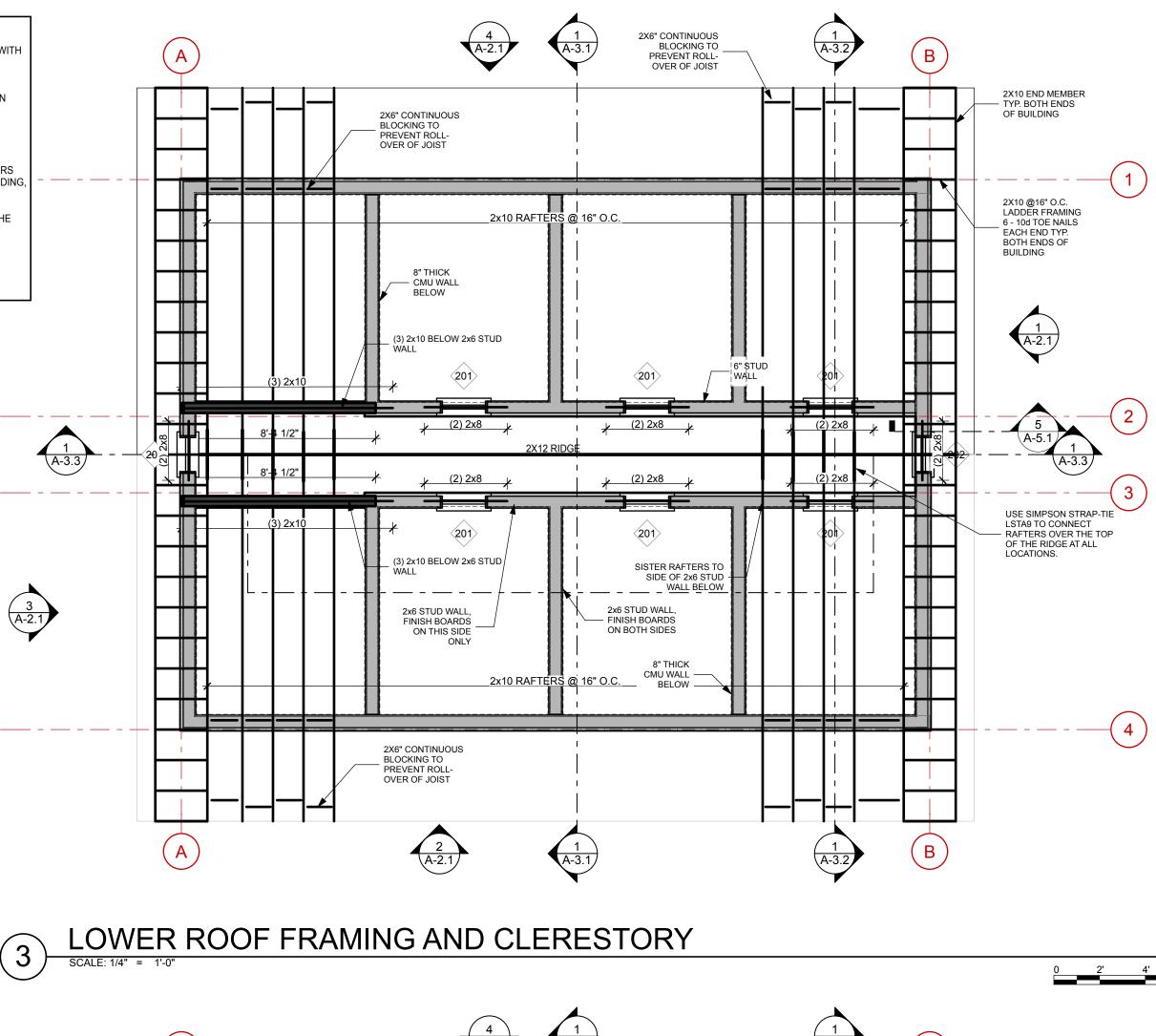
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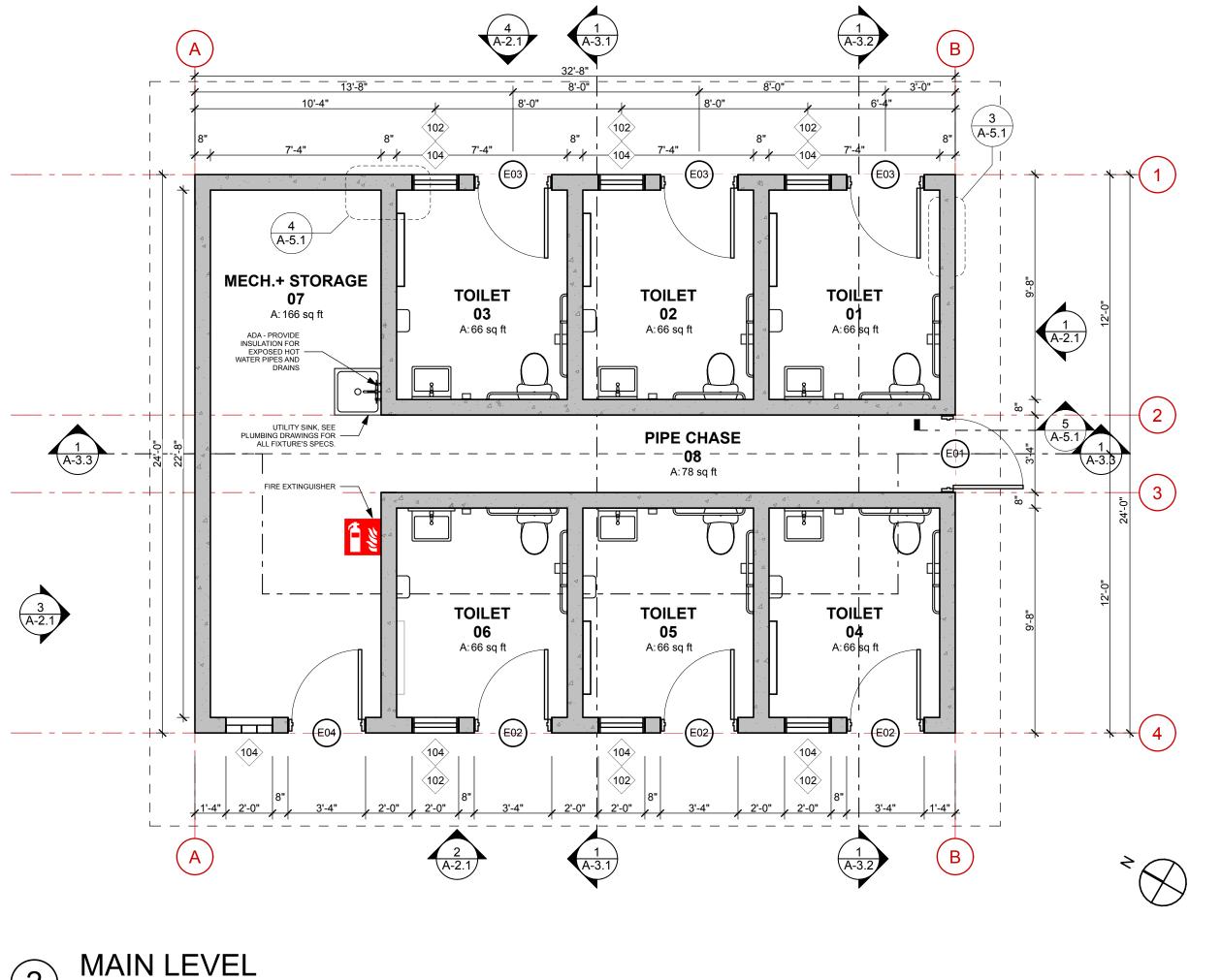
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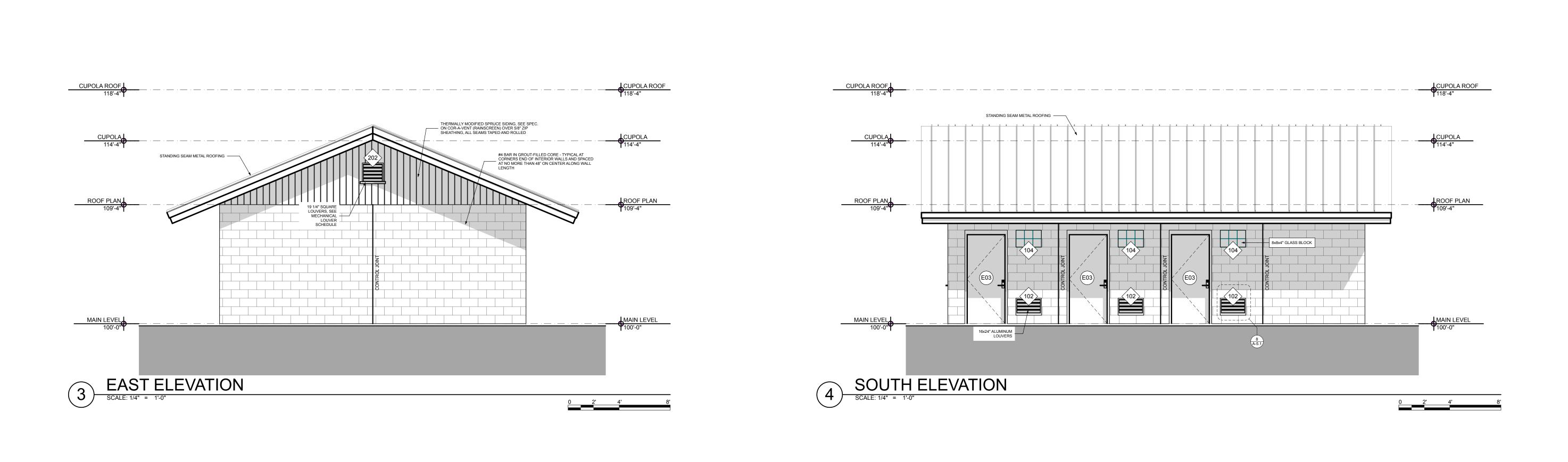


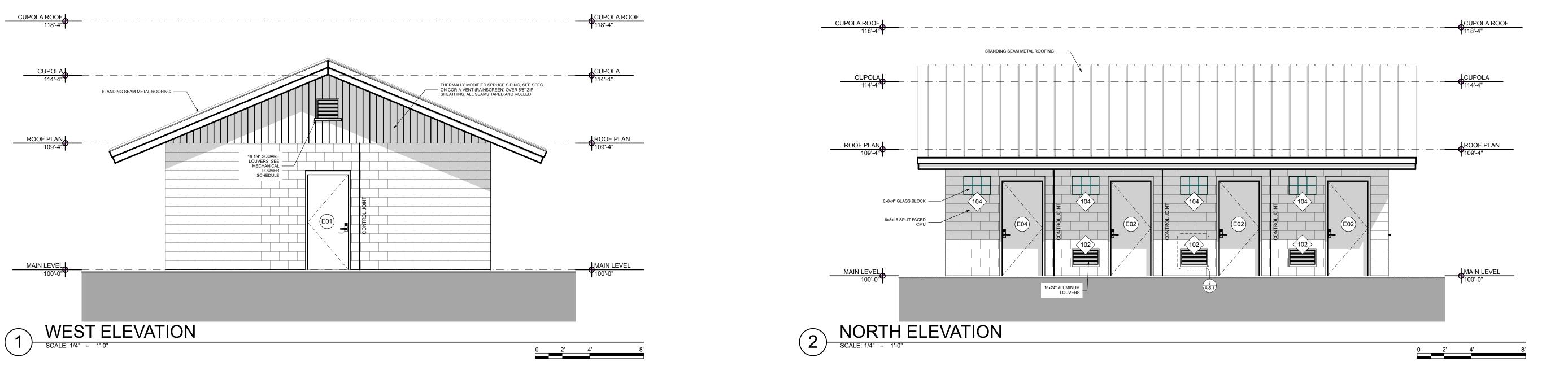




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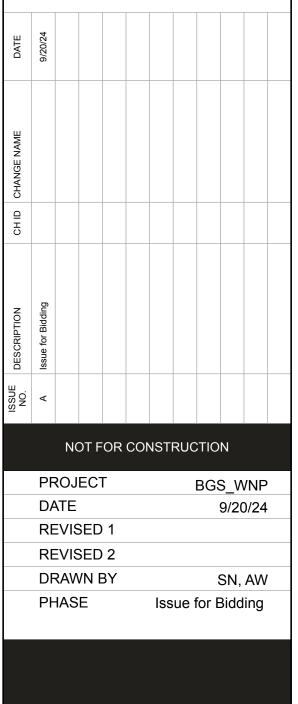
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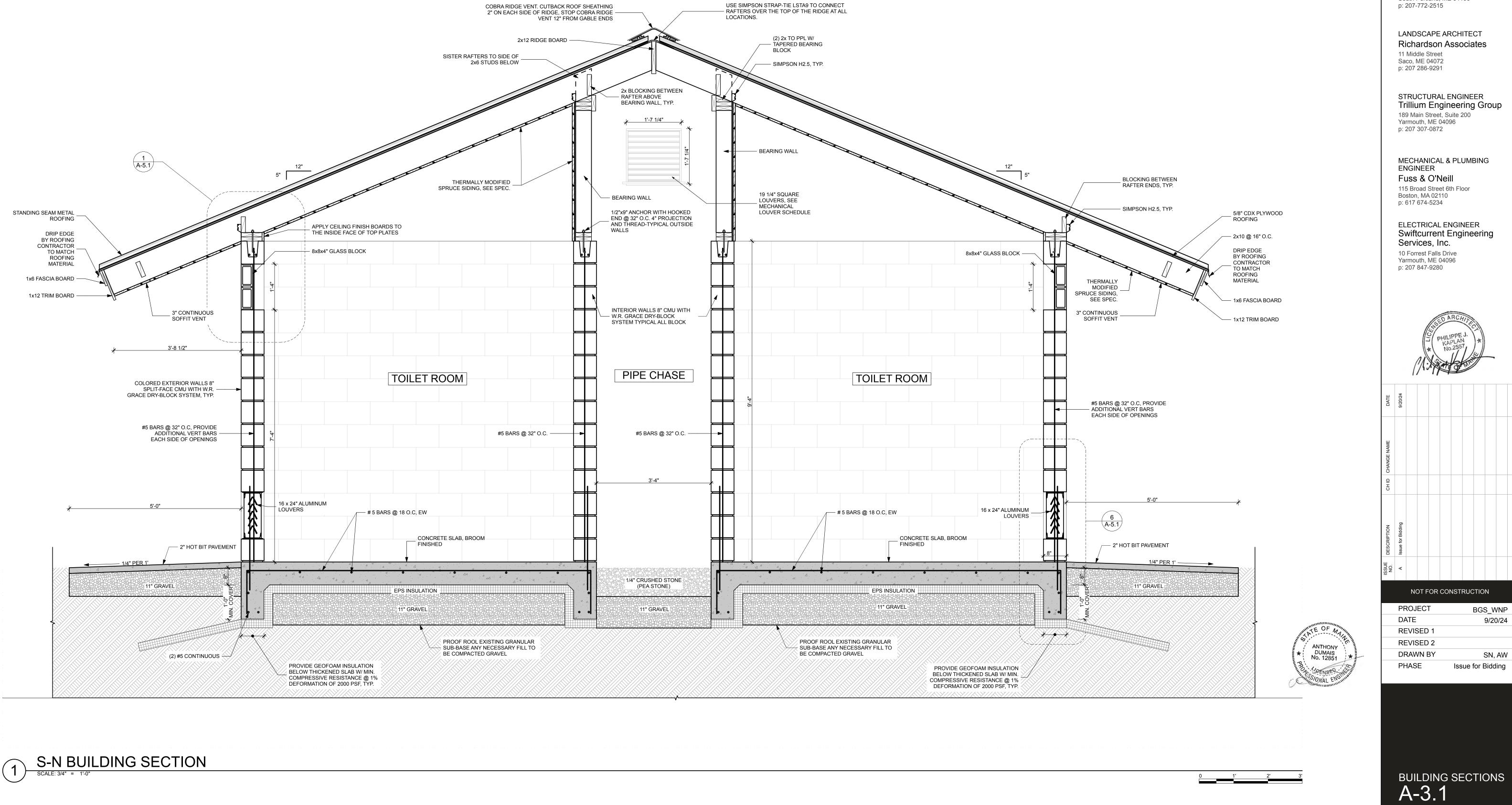




ELEVATIONS

A-2.1





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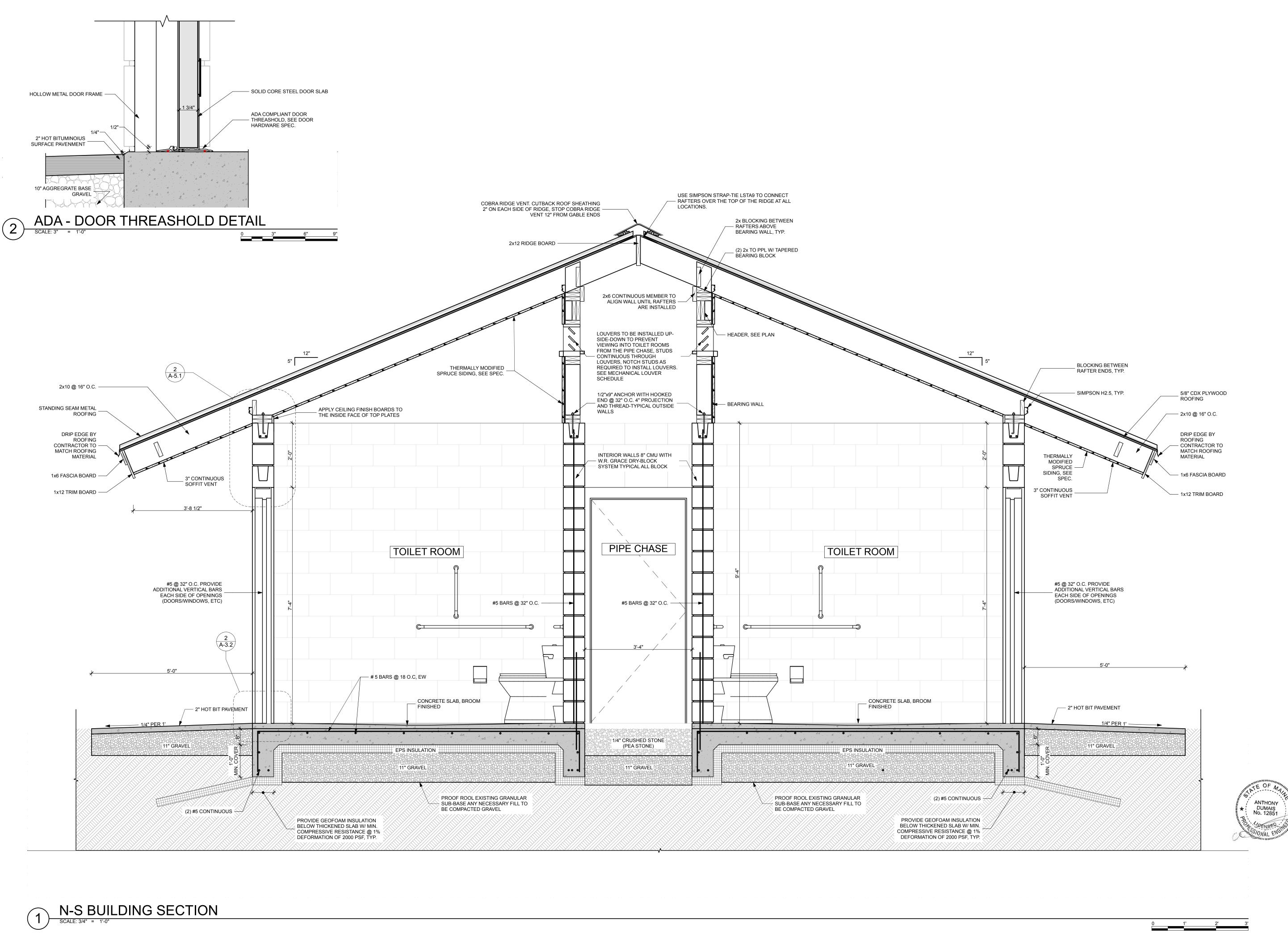
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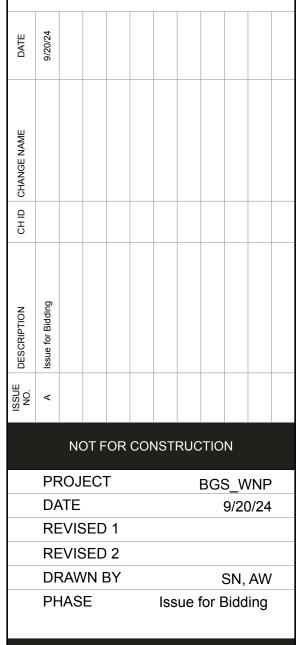
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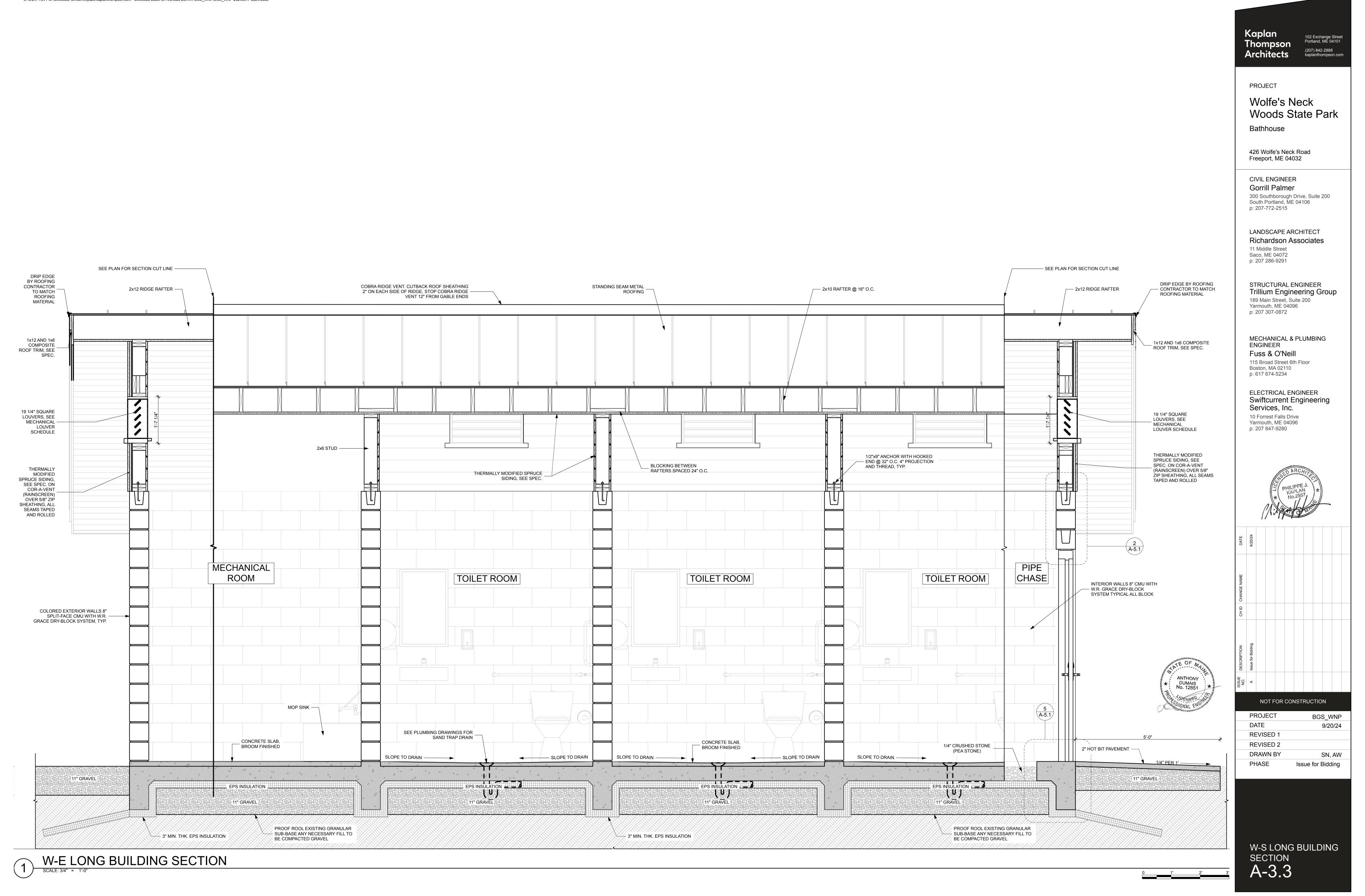
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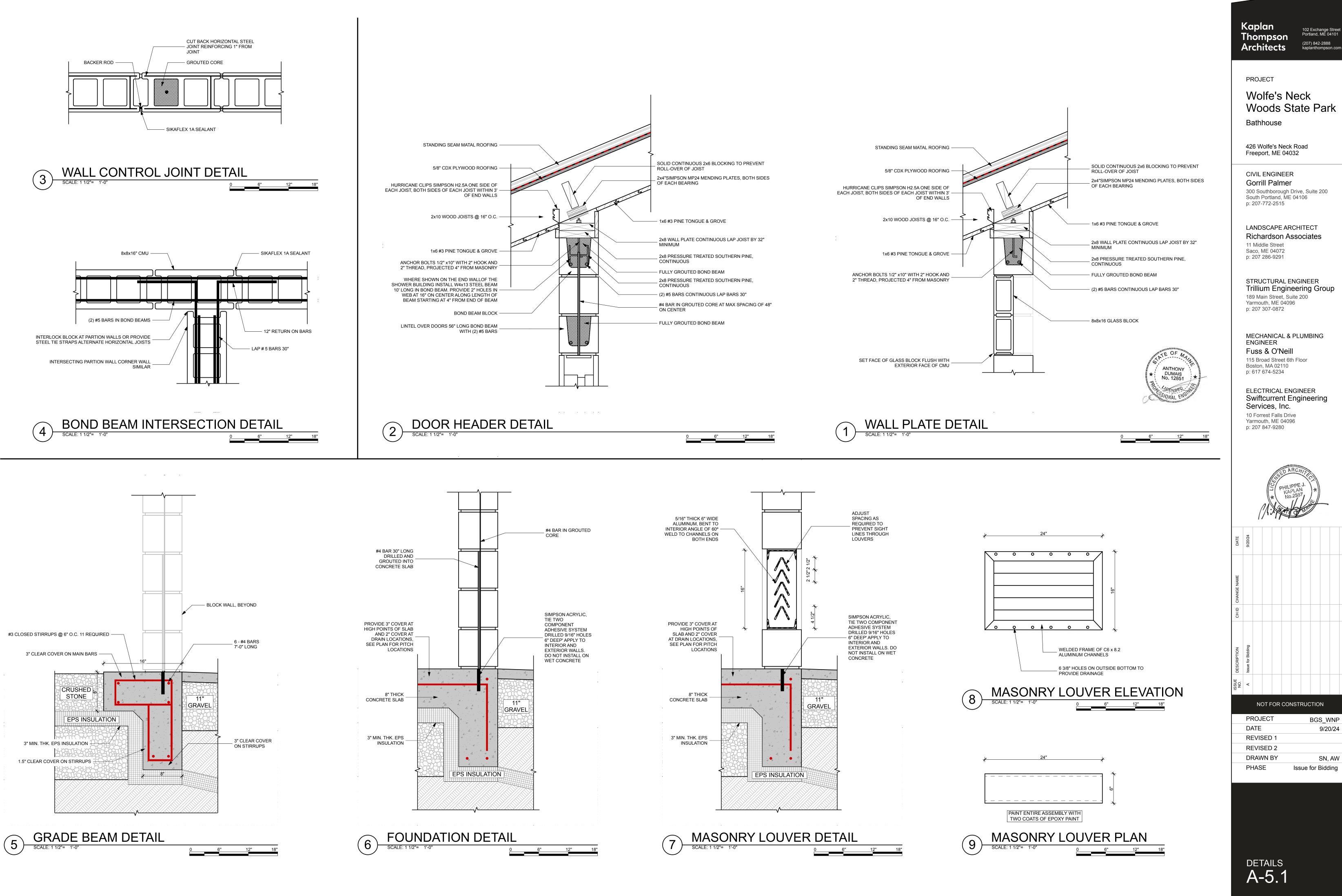
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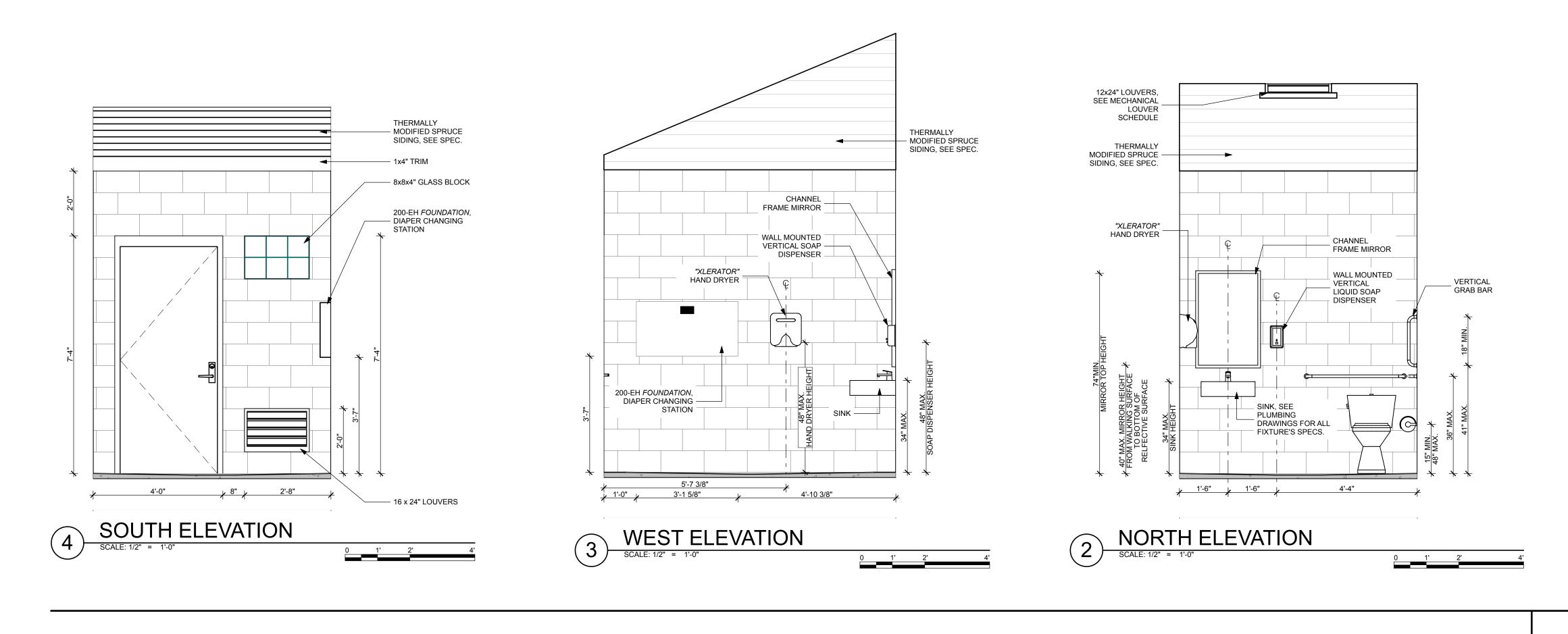


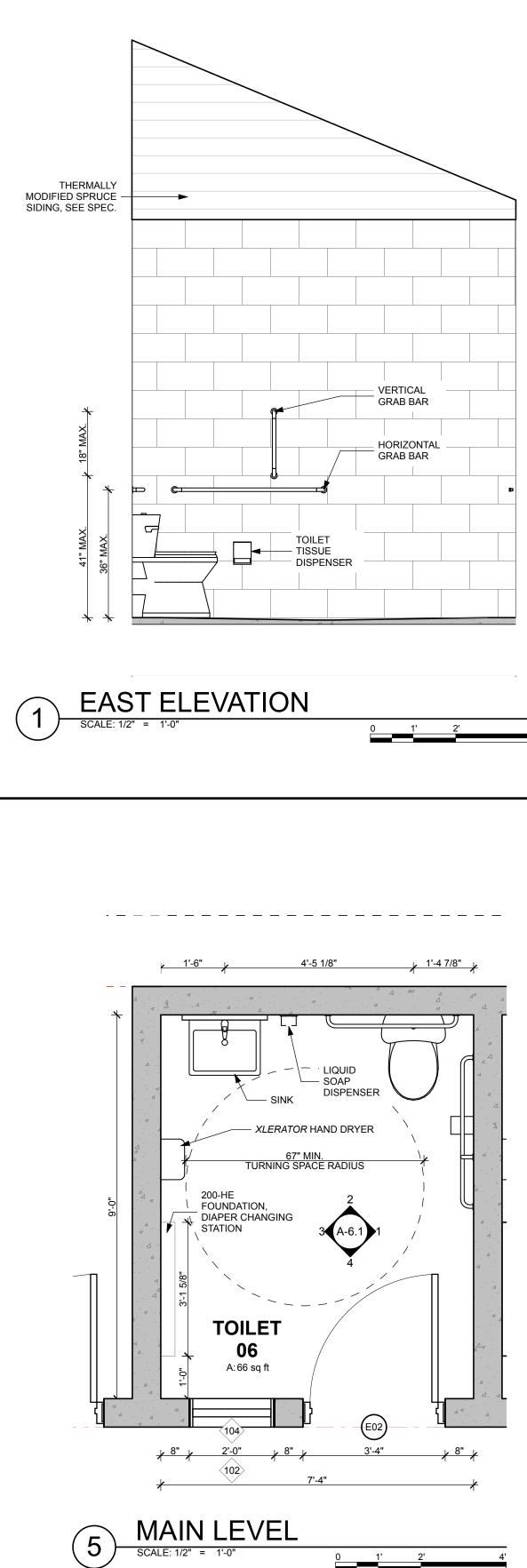
BUILDING SECTIONS A-3.2





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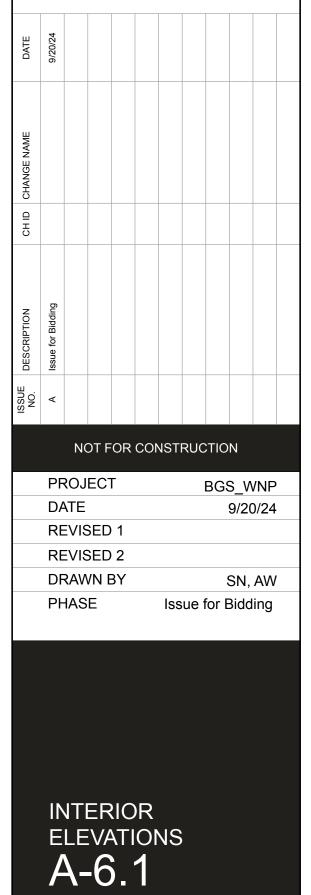
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200	JVER AND WINDOW SCHEDULE					Nom Area		Material Exterior In		Glazing						
ID	Exterior Elevation	Width	Width Height		Unit Type	Nom. Area SF	Material		Interior Finish	Manufacturer	Panes	SHGC	(COG) U-Value	Fire Egress	Tempered	NOTES
102		1'-11 1/2"	1'-3 3/4"	6	Louver	2.6	Aluminum	TWO COATS, EPOXY PAINT	TWO COATS, EPOXY PAINT		Unspecified	0.00				SUBMIT COLOR
104		2'-0"	1'-4"	7	Glass Block - Fixed	2.7					Unspecified	0.00				
201		2'-0"	1'-0"	6	Louver	2.0	Steel	SEE MECHANICAL	SEE MECHANICAL		Unspecified	0.00				SEE MECHANICAL LOUVER SCHEDULE
202		1'-7 1/4"	1'-7 1/4"	2	Louver	2.6	Aluminum	SEE MECHANICAL	SEE MECHANICAL		Unspecified	0.00				SEE MECHANICAL LOUVER SCHEDULE
				21												

		C	oor Lea	f			Related Zone	Material	& Finish	Fire			
ID Elevatio		Width	Height Thk.		Qty.	Unit Type		Door Leaf	Door Frame	Resistance Rating	Manufacturer	Hardware NOTES	Area
E01	<.	3'-0"	7'-0"	1 3/4"	1	Swing		STEEL SOLID CORE	HOLLOW METAL	Non-Rated	T.B.D.	HW SET: 2.0	21.0
E02		3'-0"	7'-0"	5 1/4"	3	Swing		STEEL SOLID CORE	HOLLOW METAL	Non-Rated	T.B.D.	HW SET: 3.0	21.0
E03		3'-0"	7'-0"	5 1/4"	3	Swing		STEEL SOLID CORE	HOLLOW METAL	Non-Rated	T.B.D.	HW SET: 3.0	21.0
E04		3'-0"	7'-0"	1 3/4"	1	Swing		STEEL SOLID CORE	HOLLOW METAL	Non-Rated	T.B.D.	HW SET: 4.0	21.0

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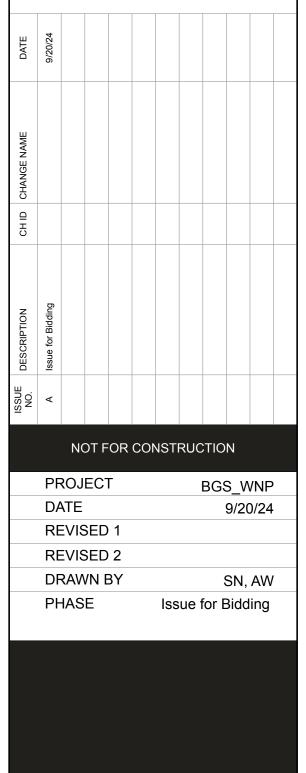
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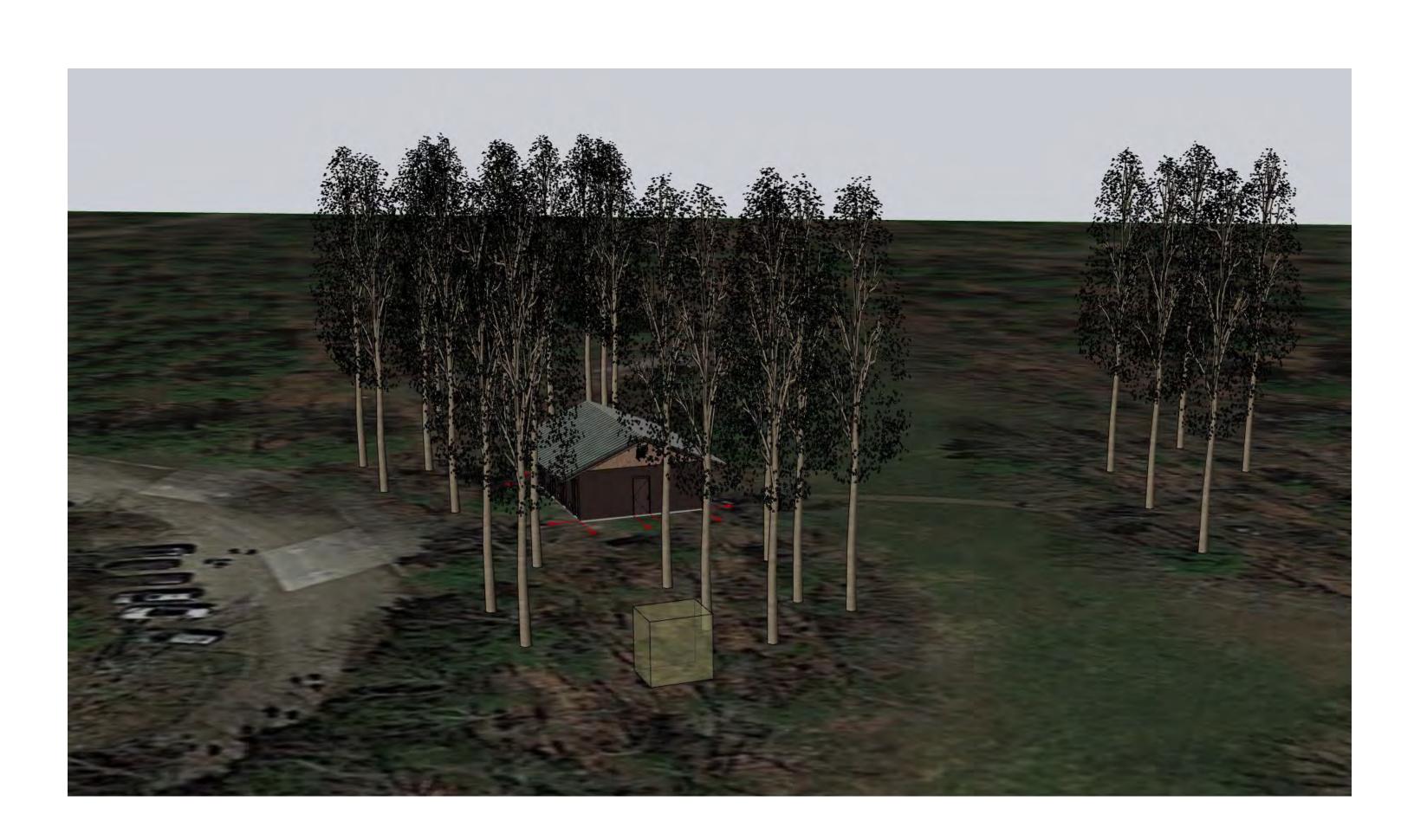
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window + door schedule **A-8.1**







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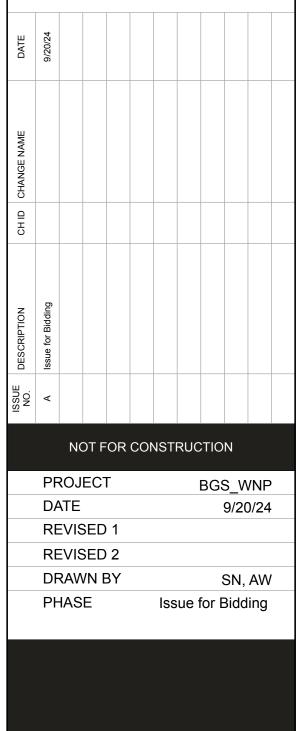
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PERSPECTIVES

MECHANICAL GE	ENERAL NOTES
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1. ALL CONTRACTORS SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS INCLUDING PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATION AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL/PLUMBING AND ELECTRICAL ENGINEERING.

- 2. THE INFORMATION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC, INDICATING THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT, AND THEIR ASSOCIATED ACCESS AREAS, WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED BY INSTALLATION BY ANY CONTRACTOR SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- 3. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, OR BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS. FOR EACH CONFLICT, CONTRACTOR SHALL CARRY THE MORE EXPENSIVE OR LARGER QUANTITY OPTION.
- 4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EQUIPMENT LOCATIONS IN THE FIELD, AND SHALL ADVISE THE ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- 5. CONTRACTOR SHALL SECURE ALL PERMITS AND APPLICATIONS AND PAY ALL FEES PERTAINING TO THE CONTRACT.
- 6. ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS WITH CODE OR MANUFACTURER-REQUIRED ACCESS SPACES. ALL MECHANICAL EQUIPMENT INSTALLATIONS SHALL ADHERE TO MANUFACTURER OPERATION CLEARANCE AND SERVICE CLEARANCE REQUIREMENTS.
- 7. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS REQUIRED FOR A COMPLETE INSTALLATION.
- 8. EACH CONTRACTOR SHALL COORDINATE THE LOCATION OF THEIR WORK WITH ALL OTHER TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE SYSTEM LAYOUT REQUIRED FOR INSTALLATION SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR PERSONNEL IDENTIFICATION AND SITE SAFETY MEASURES AS REQUIRED BY PROJECT SITE SUPER AND GC.
- 10. CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND BUILDING OPERATION WITH THE OWNER A MINIMUM OF 72 HOURS PRIOR TO THE SCHEDULED SERVICE INTERRUPTION.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS.
- 12. CONTRACTORS SHALL PROVIDE SLEEVES AND SEALS FOR ALL PIPING OR CONDUIT THAT PENETRATES CONCRETE WALLS OR FLOOR SLABS.
- 13. GC SHALL RESPONSIBLE FOR ALL AIR SEALING, WEATHER-SEALING AND FIRE-STOPPING MEDIA AS REQUIRED. WEATHER-TIGHT SEALS AT MECHANICAL PENETRATIONS THROUGH WALLS AND ROOFS TO BE COMPLETED BY THE GC. MC TO SUPPLY ACCESS PANELS WHERE REQUIRED FOR INSTALLATION BY THE GC.
- 14. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION OF ANY PROPOSED STRUCTURAL MEMBER PENETRATIONS TO THE STRUCTURAL ENGINEER FOR REVIEW AND DETAILING BEFORE INSTALLATION. CONTRACTOR SHALL REPAIR ANY DAMAGE DUE TO PENETRATIONS INSTALLED, AT NO COST TO OWNER. THE DAMAGE REPAIRING SHALL ALSO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
- 15. CONTRACTOR SHALL SUBMIT COMPLETE ELECTRONIC SET OF SHOP DRAWINGS, SUBMITTALS, AND EQUIPMENT CUT SHEET INFORMATION TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK.
- 16. EQUIPMENT, PIPE AND SYSTEMS LAYOUTS ARE DIAGRAMMATIC. SYSTEMS MAY BE SHOWN DISPLACED FOR CLARITY. CONTRACTOR SHALL PROVIDE ALL SYSTEM APPURTENANCES FOR FULLY FUNCTIONAL SYSTEM PER MANUFACTURER AND DIV 23 SPECIFICATIONS. MC SHALL SUPPLY AND INSTALL ALL FITTINGS, COUPLINGS, VALVES, UNIONS, PIPE OFFSETS AND TRANSITIONS AS REQUIRED. COORDINATE WITH OTHER TRADES AT NO COST TO THE OWNER.
- 17. ALL REQUIRED ENVELOPE PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE COORDINATED WITH GC IN FIELD PRIOR TO CORING.
- 18. NO PIPING OR DUCTS SHALL BE INSTALLED OVER ELECTRICAL PANELS, TRANSFORMERS, OR ELEVATOR MACHINE ROOM EQUIPMENT. CONTRACTOR SHALL COORDINATE PIPING AND DUCTWORK WITH ELECTRICAL EQUIPMENT IN FIELD PRIOR TO SYSTEM INSTALLATIONS.
- 19. PROVIDE SPRING ISOLATED & SEISMICALLY RATED HANGERS FOR EQUIPMENT, DUCTWORK AND PIPING PER SPECIFICATIONS. CONTRACTOR IS TO PROVIDE SUBMITTALS INDICATING PROPOSED SYSTEMS, INSTALLATION DETAILS AND PLAN LOCATIONS WITHIN COORDINATION DRAWING SUBMITTAL.
- 20. PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAINS AT LOW POINTS.
- 21. PROVIDE STUD GUARDS FOR ALL PIPING LOCATED WITHIN 1" OF EDGE OF FRAMING MEMBERS
- 22. SYSTEM INSTALLATIONS: EQUIPMENT AND ASSOCIATED SYSTEM APPURTENANCES SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH INDUSTRY BEST PRACTICE. SYSTEMS SHALL BE INSTALLED TO FACILITATE FUTURE SERVICE AND REPLACEMENT WITH RESPECT TO DISCONNECTION/RECONNECTION OF PIPES, EQUIPMENT AND ACCESSORIES AS REQUIRED. MECHANICAL SYSTEMS SHALL BE INSTALLED SUCH THAT ALL PARTS ARE EASILY ACCESSIBLE FOR INSPECTION, OPERATION, MAINTENANCE AND REPAIR.
- 23. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS & REQUIREMENTS AND THE BEST STANDARD PRACTICE FOR THIS TYPE OF WORK.
- 24. BEST PRACTICE: IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY FITTING, CONNECTION, OR APPLIANCE THIS CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
- 25. CONTRACTOR SHALL VERIFY THE LOCATIONS AND MOUNTING HEIGHTS OF ALL EQUIPMENT AND MATERIALS, AND THE EXACT ROUTING OF ALL PIPES AND DUCTWORK WITH THE OWNER'S REPRESENTATIVE IN THE FIELD, PRIOR TO COMMENCING ANY WORK ANY CONFLICTS WITH LOCATIONS, OR PROBLEMS ENCOUNTERED WITH ROUTING, SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION 8 MATERIALS: ALL MATERIALS, FIXTURES AND EQUIPMENT SHALL BE NEW WITHOUT IMPERFECTIONS AND SHALL BE DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL WHEREVER POSSIBLE, ALL TRIM, ACCESSORIES AND PARTS SHALL BE OF THE SAME MANUFACTURER AS THE RELATED EQUIPMENT AND FIXTURES.
- 26. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR AIR SEALING AND INSULATION PER SPECIFICATION REQUIREMENTS.
- 27. ALL ELECTRICAL SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL LOCAL REQUIREMENTS COORDINATE ELECTRICAL CHARACTERISTICS FOR ALL EQUIPMENT WITH EC BEFORE ORDERING EQUIPMENT.
- 28. ALL THERMOSTATS SHALL BE WALL MOUNTED MIN. 48" AFF UNLESS NOTED OTHERWISE.
- 29. CONTRACTOR SHALL PROVIDE COMPLETE CONTROL SYSTEM FOR FULLY FUNCTIONAL SYSTEM PER MANUFACTURER'S AND SEQUENCE OF OPERATION REQUIREMENTS. THE MC SHALL BE RESPONSIBLE FOR ALL SENSORS, THERMOSTATS, CONTACTS, CONTROL PANELS, BACK-BOARD MODULES LOW-VOLTAGE WIRING, TRANSFORMERS, AND ASSOCIATED SYSTEM PROGRAMMING AS REQUIRED.
- 30. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ASSISTING WITH THIRD PARTY COMMISSIONING AS REQUIRED BY ARCHITECTURAL PROJECT SPECIFICATIONS FOR COMMISSIONING, TO COMPLETE FUNCTIONAL TESTING AND PROGRAMMING REQUIREMENTS PER OWNER'S REQUIREMENTS.
- 31. ACOUSTIC AND VIBRATION REQUIREMENTS: MECHANICAL AND ELECTRICAL EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE AND/OR VIBRATION, AS DETERMINED BY THE ENGINEER. ALL EQUIPMENT WITH BLOWER MOTORS, ROTATING WHEELS OR INTEGRAL MECHANISMS THAT CAN GENERATE NOISE OR VIBRATION ARE TO BE PROVIDED WITH VIBRATION ISOLATION RATED FOR THEIR ANTICIPATED SERVICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE FOR NOISE AND VIBRATION ISOLATION.
- 32. HYDROSTATIC TESTING SHALL BE PERFORMED ON ALL EQUIPMENT AND PIPING THAT IS SUBJECTED TO PRESSURES ABOVE AMBIENT. THE MECHANICAL/PLUMBING CONTRACTOR SHALL DEVELOP A TEST SEQUENCE AND PHASES BASED UPON THE SYSTEM DESIGN, THE SYSTEM COMPONENTS THAT REQUIRE TESTING, AND THE CONSTRUCTION SEQUENCE OF THOSE COMPONENTS. THE CONTRACTOR SHALL PROVIDE THIS TEST SEQUENCE TO THE OWNER AND ENGINEER FOR REVIEW. THE CONTRACTOR SHALL GIVE THE ENGINEER AND OWNER 48 HOURS NOTICE BEFORE PERFORMING ANY SYSTEM COMPONENT PRESSURE TEST. THE CONTRACTOR SHALL NOT USE A COMPRESSIBLE FLUID, SUCH AS COMPRESSED AIR, FOR THE HYDROSTATIC TESTS. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE ENGINEER AND OWNER THAT THE PRESSURE TEST EQUIPMENT, INCLUDING PRESSURE SENSORS AND GAGES, HAS BEEN CALIBRATED BEFORE USE. THE CONTRACTOR SHALL ISOLATE ALL EQUIPMENT AND PIPING THAT IS NOT UNDERGOING TESTING USING FLANGES OR CAPS, NOT SHUTOFF VALVES. REFER TO SPECIFICATIONS FOR HYDROSTATIC PRESSURE TEST DETAILS FOR A GIVEN SYSTEM COMPONENT.
- 33. PROTECTION OF EQUIPMENT AND MATERIALS: RESPONSIBILITY FOR CARE AND PROTECTION OF ALL MATERIALS AND WORK RESTS WITH THIS CONTRACTOR AT ALL TIMES UNTIL IT HAS BEEN APPROVED.
- 34. CONTRACTOR GUARANTEE: ALL NEW COMPONENTS OF THE INSTALLATION SHALL BE GUARANTEED IN WRITING BY THIS CONTRACTOR TO BE FREE FROM DEFECTS OF MANUFACTURE AND INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF WRITTEN ACCEPTANCE OF THE ENTIRE BUILDING BY THE ENGINEER . ANY DEFECTS FOUND SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AT THEIR OWN EXPENSE AND AT NO COST TO THE OWNER.
- 35. CONTRACTOR NOTIFICATION REQUIREMENTS: THE MC SHALL NOTIFY THE ENGINEER UPON: (1) COMPLETION OF ALL ROUGH PIPING, BEFORE CLOSURE OF ANY TRENCHES, OPEN WALL CAVITIES OR CHASES (2) UPON "SUBSTANTIAL COMPLETION" OF ALL SYSTEMS INCLUDING OPERATIONAL SYSTEMS AND FINISH WORK AFTER "SUBSTANTIAL COMPLETION", THE ARCHITECT WILL PREPARE A PUNCH LIST OF ITEMS TO BE CORRECTED THE MC SHALL CORRECT ANY DEFICIENCIES FOUND PROMPTLY, AT THEIR OWN EXPENSE.
- 36. FINAL COMPLETION: THE WORK SHALL NOT BE CONSIDERED COMPLETE UNTIL THE PUNCH LIST IS COMPLETED TO THE SATISFACTION OF THE ENGINEER AND ALL FINAL INSPECTIONS HAVE BEEN COMPLETED. UPON COMPLETION OF PROJECT CONSTRUCTION AND FINAL PUNCH LIST OUTSTANDING ITEMS, CONTRACTOR SHALL SUPPLY THE ENGINEER WITH (1) COMPLETE SET OF ELECTRONIC AS-BUILT DOCUMENTS AND (1) COMPLETE ELECTRONIC SET OF OPERATIONS AND MAINTENANCE MANUALS. CONTRACTOR SHALL BE RESPONSIBLE FOR CLOSING ALL PROJECT PERMITS AND FINAL INSPECTIONS AS REQUIRED BY LOCAL AHJ.

CONTROLS LEGEND

MECHANICAL ABBREVIATIONS

					1
		A	AMP	H.P.	HORSEPOWER
	DIRECTION OF AIRFLOW	AFF	ABOVE FINISHED FLOOR	HTG	HEATING
	CONTROL WIRE	AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	HWS	HOT WATER SUPPLY
		AHJ	AUTHORITY HAVING JURISDICTION	HWR	HOT WATER RETURN
ζ	LOW TEMPERATURE SENSOR	AHU	AIR HANDLING UNIT	HX	HEAT EXCHANGER
(TS)	TEMPERATURE SENSOR	AS	AIR SEPARATOR	HZ	HERTZ
-		AWT	AVERAGE WATER TEMPERATURE	IN	INCH
es I	PRESSURE SENSOR	BS / BC	BRANCH SELECTOR / BRANCH CONTROLLER BOX	LAT	LEAVING AIR TEMPERATURE
		BFP	BACKFLOW PREVENTER	LBS	POUNDS
DSD	DUCT SMOKE DETECTOR	BMS	BUILDING MANAGEMENT SYSTEM	LWT	
		BTUH	BRITISH THERMAL UNITS PER HOUR	MAU	MAKEUP AIR UNIT
202	CARBON DIOXIDE SENSOR	CA	COMBUSTION AIR	MBH	THOUSANDS OF BRITISH THERMAL UNITS PER HOU
0	CARBON MONOXIDE SENSOR	CD	CONDENSATE DRAIN	MAX	MAXIMUM
T	THERMOSTAT	CFM	CUBIC FEET PER MINUTE	MC	MECHANICAL CONTRACTOR
		СН	CABINET HEATER	MCA	MAXIMUM CIRCUIT AMPS
FR	FREEZE-STAT	CHWS	CHILLED WATER SUPPLY	MECH	MECHANICAL
T)	REVERSE ACTING THERMOSTAT	CHWR	CHILLED WATER RETURN	MIN	MINIMUM
R		CLG	COOLING	MOCP	MAXIMUM OVER-CURRENT PROTECTION
TC	PROGRAMMABLE TIMECLOCK	CMU	CONCRETE MASONRY UNIT	NC	NORMALLY CLOSED
H	HUMIDISTAT	CO	CLEAN OUT	NEZV	NON-ELECTRIC ZONE VALVE
HS	HUMIDITY SENSOR	CW	COLD WATER	NIC	NOT IN CONTRACT
		DDC	DIRECT DIGITAL CONTROL	NO	NORMALLY OPEN
Ħ	COMBINATION THERMOSTAT / HUMIDISTAT	DHW	DOMESTIC HOT WATER	NPW	NON-POTABLE WATER
ĒS	ENTHALPY SENSOR	DSD	DUCT SMOKE DETECTOR	NTS	NOT TO SCALE
		DT	DELTA T	OA	OUTSIDE AIR
S	MANUAL "ON/OFF" SWITCH	DU	DWELLING UNIT	OBD	OPPOSED BLADE DAMPER
DP	DIFFERENTIAL PRESSURE SENSOR	DX	DIRECT EXPANSION	OD	OVERFLOW DRAIN
00	OCCUPANCY SENSOR	(E)	EXISTING	PROVIDE	SUPPLY AND INSTALL
9	OCCUPANCE SENSOR	EA	EXHAUST AIR	PC	PLUMBING CONTRACTOR
E	FLOW METER / SENSOR	EBB	ELECTRIC BASEBOARD HEATER	POU	POINT OF USE
СТ	CURRENT	EC	ELECTRICAL CONTRACTOR	PRV	PRESSURE REDUCING VALVE
	TRANSFORMER	EER	ENERGY EFFICIENCY RATIO	RC	ROOFING CONTRACTOR
М	MOTORIZED DAMPER	EF	EXHAUST FAN	RCP	REFLECTIVE CEILING PLAN
I		ERV	ENERGY RECOVERY VENTILATOR	RD	ROOF DRAIN
ZD	ZONE DAMPER	ETR	EXISTING TO REMAIN	RL	REFRIGERANT LIQUID LINE
I		ET	EXPANSION TANK	RS	REFRIGERANT SUCTION LINE
Ø	PUMP	ESP	EXTERNAL STATIC PRESSURE	RTU	ROOF TOP UNIT
		EUH	ELECTRIC UNIT HEATER	RV	RADON VENT THRU-ROOF
لر⊛	FAN / BLOWER	EWH	ELECTRIC WALL HEATER	RPZ	REDUCED PRESSURE ZONE ::: BACKFLOW PREVENT
	HAND-OFF-AUTO MOTOR	EWT	ENTERING WATER TEMPERATURE	SA	SUPPLY AIR
HOA	CONTROLLER	EXT	EXTERIOR	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	ELECTRONIC COMMUTATED	FCU	FAN COIL UNIT	SM	SHEET METAL
ECM	MOTOR CONTROL	FD	FIRE DAMPER	SS	STAINLESS STEEL
VFD	VARIABLE FREQUENCY DRIVE	FLA	FULL LOAD AMPS	T&P	TEMPERATURE & PRESSURE
		FPI	FINS PER INCH	TS	TEMPERATURE SENSOR
EHC		FPC	FIRE PROTECTION CONTRACTOR	TYP	TYPICAL
XI	ELECTRIC HEATING COIL	FSB	FILED SUB-BID	TU	TERMINAL UNIT
ΉΤG		FT	FEET	UH	UNIT HEATER
		GAL	GALLLONS	UNO	UNLESS NOTED OTHERWISE
	GAS FIRED FURNACE BURNER (S)	GC	GENERAL CONTRACTOR (PRIME CONTRACTOR & CON. MANAGER)	UV	UNIT VENTILATOR
	UAD I INED FURINAUE BURINER (3)	GPM	GALLONS PER MINUTE	V	VENT
		HG	HOT GAS HEAT RECOVERY REFRIGERANT LINE	VD	VOLUME DAMPER
		HGR	HOT GAS REHEAT REFRIGERANT LINE	VFD	VARIABLE FREQUENCY DRIVE
/ 1	DIRECT EXPANSION REFRIGERANT	HP	HEAT PUMP	W.M.S.	WIRE MESH SCREEN

-MX.X

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REFRIGERANT HOT GAS REHEAT COIL

HYDRONIC HEATING HOT WATER COIL

DIRECT EXPANSION **REFRIGERANT HEATING /**

COOLING COIL (HEAT PUMP)

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TWO WAY CONTROL VALVE

DIFFERENTIAL PRESSURE BYPASS

AIR COOLED

AIR SOURCE HEAT PUMP

CONDENSING UNIT.

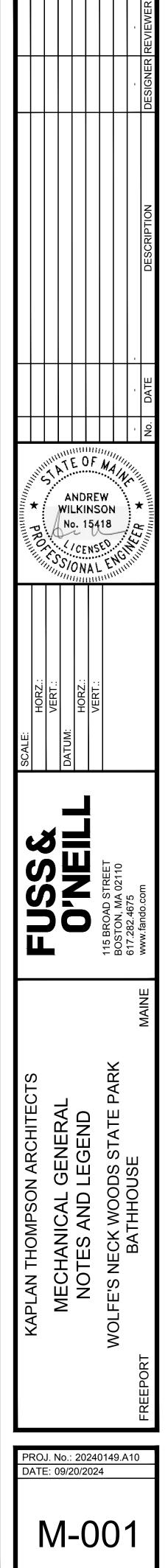
MECHANICAL GENERAL SYMBOLS

QUIPMENT TAG - NO POWER CONNECTION REQUIRED SEE SCHEDULE)
QUIPMENT TAG - POWER CONNECTION REQUIRED SEE SCHEDULE)
DETAIL TAG - DETAIL #, SHEET #
XTENT OF DEMOLITION (E.O.D.)
CONNECT TO EXISTING (C.T.E.)
REVISION CLOUD
REVISION NUMBER TAG

PIPING & VALVE LEGEND

PUMP / CIRCULATOR
WELL TYPE TEMPERATURE SENSOR / THERMOMETER
PRESSURE GAUGE
VACUUM BREAKER
PIPING WITH ELECTRIC HEAT TRACE
COMBINATION HOT & CHILLED WATER - SUPPLY
COMBINATION HOT & CHILLED WATER - RETURN
HOT WATER SUPPLY PIPING
HOT WATER RETURN PIPING
CHILLED WATER SUPPLY PIPING
CHILLED WATER RETURN PIPING
CONDENSER WATER SUPPLY PIPING
CONDENSER WATER RETURN PIPING
HVAC CONDENSATE PIPING
INLINE CONDENSATE CLEAN OUT
COMBUSTION AIR INTAKE PIPING
COMBUSTION AIR FLUE PIPING
REFRIGERANT LIQUID PIPING
REFRIGERANT SUCTION PIPING
REFRIGERANT HOT GAS HEAT RECOVERY PIPING
REFRIGERANT HOT GAS REHEAT PIPING
PIPE DROP DOWN
PIPE DROP DOWN FROM TWO SIDES
BALANCING VALVE
BALL VALVE W/ DRAIN
BALL VALVE WITH HOSE THREAD W/ BRASS CAP & CHAIN
BALL VALVE
PRESSURE REDUCING VALVE
STEAM PRESSURE REGULATOR
STEAM TRAP
SPRING CHECK VALVE
REDUCED PRESSURE ZONE (RPZ) / BACKFLOW PREVENTER
STRAINER WITH BALL VALVE AND THREADED DRAIN CONNECTION, PROVIDE WITH DRAIN CAP AND
CHAIN. 3/4" DRAIN SIZE MIN.
THERMOSTATIC 3-WAY VALVE
UNION
FLANGE
FLEXIBLE PIPE CONNECTION
PIPE ANCHOR
PIPE SLEEVE / GUIDE
EXPANSION JOINT
AIR VENT (AUTO-AIR VENT WITH REPLACABLE VALVE BODY)
RELIEF VENT / VALVE
TRIPLE DUTY VALVE
PIPE PITCH DIRECTION

וח	JCTWORK & AIR
	SIDE LEGEND
	DUCT OFFSET DOWN IN PLAN
	DUCT OFFSET UP IN PLAN
	SUPPLY DIFFUSER (4-WAY)
	SUPPLY DIFFUSER (3-WAY)
y# 🖉 #4	RETURN / EXHAUST DIFFUSER / GRILLE
-	SG; SIDEWALL SUPPLY GRILLE
1 mg	RG / EG; SIDEWALL RETURN / EXHAUST GRILLE
×√	CEILING MOUNTED EXHAUST FAN
	ELECTRIC WALL HEATER
VD	VOLUME DAMPER
RD	RADIATION DAMPER
FD	FIRE DAMPER
CAR	CONSTANT AIRFLOW REGULATOR DAMPER
BD	BACK-DRAFT DAMPER
M	MOTORIZED (CONTROL) DAMPER
FSD	COMBINATION FIRE / SMOKE DAMPER
• 12"X12" •	RECTANGULAR DUCTWORK (FIRST DIMENSION IS SIZE SHOWN)
► (E)12"X12" ►	EXISTING DUCTWORK
► 12"Ø ►	ROUND DUCTWORK
	EXISTING DUCTWORK TO BE REMOVED (DEMO)
-	SUPPLY DUCTWORK OFFSET UP
	SUPPLY DUCTWORK OFFSET DOWN
	RETURN DUCTWORK OFFSET UP
	RETURN DUCTWORK OFFSET DOWN
	ROUND SUPPLY DUCTWORK OFFSET UP
+	ROUND SUPPLY DUCTWORK OFFSET DOWN
	DUCTWORK CAPPED END
	DUCTWORK INTERNAL INSULATION / ACOUSTIC LINING
	FLEXIBLE DUCTWORK CONNECTION
	RECTANGULAR DUCT TRANSITION
	DUCTWORK TRANSITION TO ROUND
	MITERED ELBOW WITH TURNING VANES
۰ ۲	DUCTWORK - SINGLE LINE
\$(E)\$	EXISTING DUCTWORK - SINGLE LINE
۶۶	DUCTWORK TO ME REMOVED (DEMO) - SINGLE LINE
∽⊠	SUPPLY DUCTWORK OFFSET UP - SINGLE LINE
<u>ج</u>	SUPPLY DUCTWORK OFFSET DOWN - SINGLE LINE
\$ 2	RETURN DUCTWORK OFFSET UP - SINGLE LINE
<u>۶</u>	RETURN DUCTWORK OFFSET DOWN - SINGLE LINE
\$O	ROUND DUCTWORK OFFSET UP - SINGLE LINE
<u>ج</u>	ROUND DUCTWORK OFFSET DOWN - SINGLE LINE
∽⊸⊳ ⊸∽	DUCTWORK TRANSITION - SINGLE LINE
<u>۶</u> ـــــا	DUCTWORK CAPPED END - SINGLE LINE



MECHANICAL SCHEDULES

								F	AN S	SCH	EDL	JLE	EF REQUIRES X ELECTRICITY
						FAN DATA			ELECTRIC	AL DATA			
TAG No.	MANUFACTURER (AS STANDARD)	MODEL NO. (AS STANDARD)	TYPE	LOCATION(S) SERVED	MIN. AIRFLOW (CFM)	ESP ("W.C.)	RPM	VOLTS	PHASE	ΗZ	AMPS	MOTOR POWER (H.P.)	REMARKS
EF-1	GREENHECK	SE1-12-432-VG	EXHAUST	BATHHOUSE	700	0.5	1629	115	1	60	-	1/4	PROVIDE MOUNTING KIT, SPRING VIBRATION ISOLATION, DISCONNECT SWITCH, VARIABLE SPEED MOTOR WITH SPEED DIAL CONTROL, BIRD SCREEN, WALL HOUSING, INTEGRAL CONTROL DAMPER, DISCHARGE LOUVER. UNIT TO OPERATE VIA WALL MOUNTED MECHANICAL TIMECLOCK SWITCH LOCATED IN BATHHOUSE MECHANICAL ROOM. TERMINATE WALL HOUSING WITH WIRE MESH SCREEN.

			LOUVER	SCHE	DULE		LV DOES NOT REQUIRE X ELECTRICITY				HV	AC POWE	ER EQU	IPMENT	SCH	IEDU	JLE	
TAG No.	QTY.	MANUFACTURER (AS STANDARD)	MODEL NO. (AS STANDARD)	SYSTEM SERVED	FREE AREA (SQF)	DIMENSIONS (W X H)	REMARKS	TAG NO.	DESCRIPTION	LOCATION	MANUFACTURER (AS STANDARD)	MODEL №. (AS STANDARD)	SERVING EQUIPMENT TAG	FIRE ALARM CONNECTION	ELE VOLTS	ECTRICAL D		REMARKS
	_				(001)			╡ ├───			,				VOLIS	FIAGE	T IZ	PROVIDE MODULATING OPERATION ACTUATORS
LV-1	6	RUSKIN	ELF30V	-	0.72	24"X12"	[1] [2] [3] [4] [5]	М	AUTOMATIC CONTROL / MOTORIZED DAMPER	SEE PLANS	-	-	-	NO	120	1	60	(0-10 V) FOR ALL MOTORIZED DAMPERS
LV-2	6	RUSKIN	ELF30V	-	0.72	18"X18"	[1] [2] [3] [4] [5] [6]			I	-		1			1 1		I
NOTES:						•												

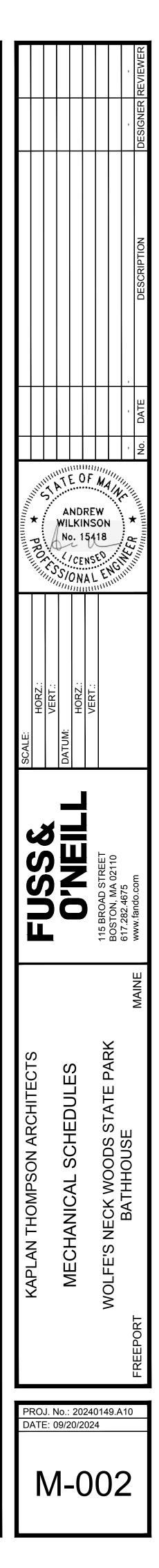
1) LOUVER TO BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR. 2) MECHANICAL CONTRACTOR SHALL COORDINATE LOUVER MOUNTING REQUIREMENTS WITH GC PRIOR TO INSTALL.

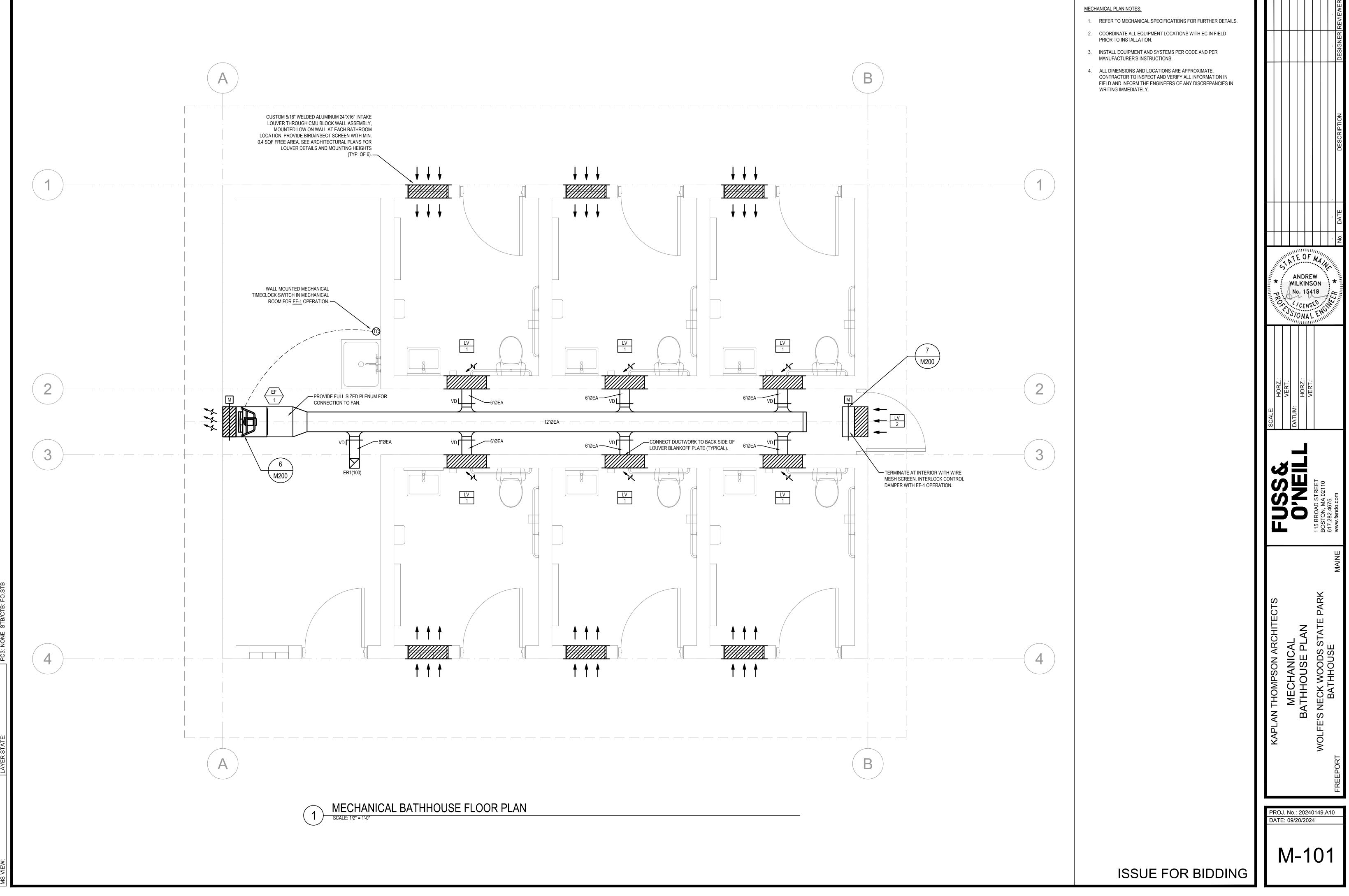
PROVIDE LOUVER WITH SIGHTPROOF CHEVRON BLADES.
 COORDINATE LOUVER FINISH COLOR WITH ARCHITECT.

5) MOUNT LOUVER HIGH ON INTERIOR WALL OF BATHHOUSE MECHANICAL CHASE WITH BOTTOM OF LOUVER MIN. 10'-0" ABOVE FINISHED FLOOR. COORDINATE WITH ARCHITECT AND GC FOR FINAL MOUNTING HEIGHT.

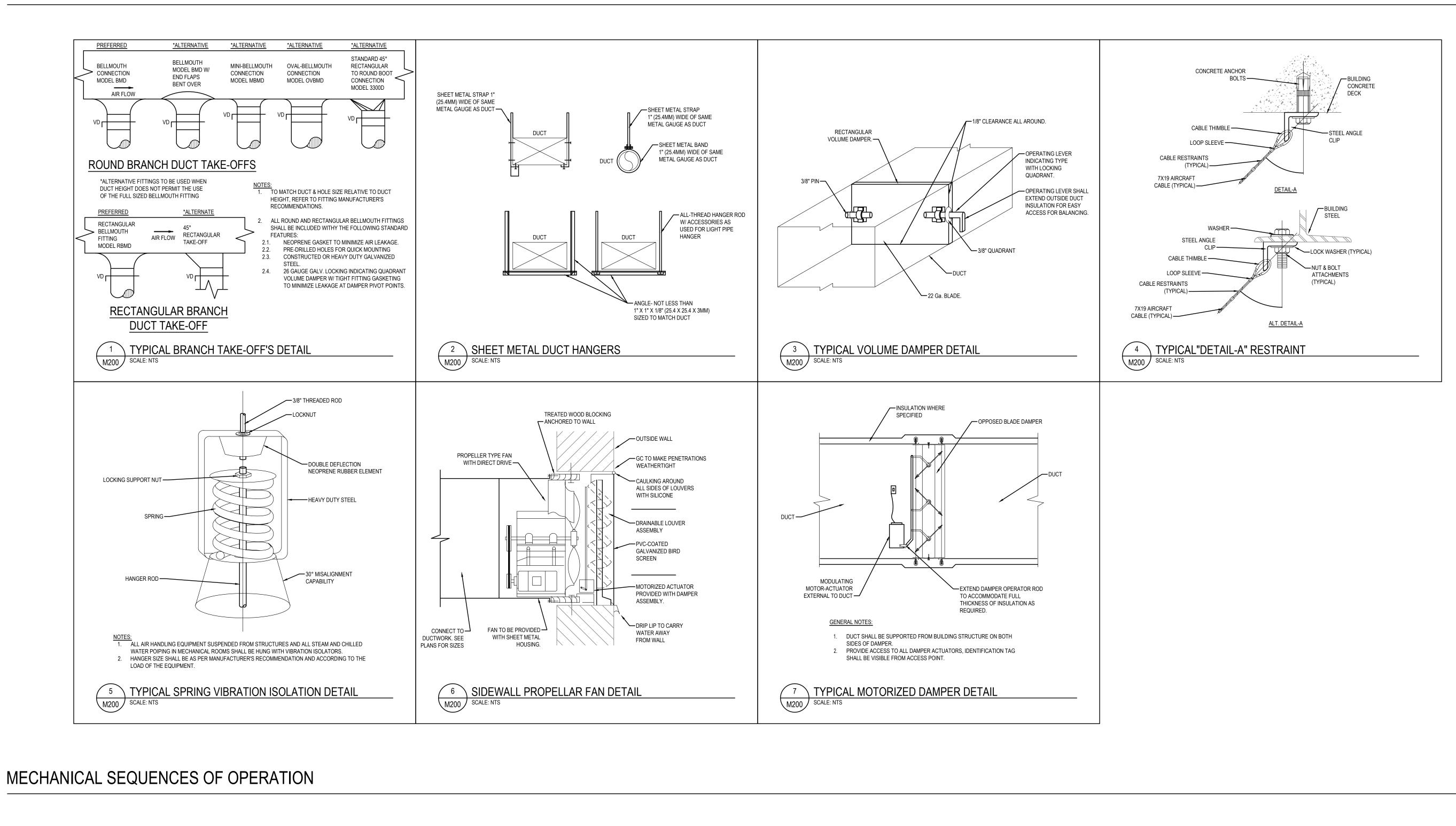
6) PROVIDE WITH BIRD / INSECT SCREEN

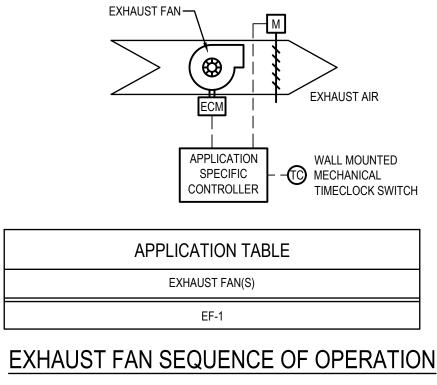
				REGIS	STER, (GRILLE, &	DIFFUSE	R SCHE	EDULE				
TAG No.	MANUFACTURER (AS STANDARD)	MODEL NO. (AS STANDARD)	SYSTEM SERVED	CFM RANGE	NECK SIZE	FRAME TYPE	MOUNTING	MATERIAL	DAMPER	FINISH	MAX NC LEVEL	MAX NECK VELOCITY (FPS)	REMARKS
ER1	PRICE	630	EXHAUST	0-100	6"X6"	SQUARE/RECTANGLE	EXPOSED	ALUMINUM	YES	BY ARCH	20	500	[1] [2] [3] [4] [5] [6]
2) PROV 3) PROV 4) REFER 5) PROV	DINATE MOUNTING REQU IDE FRAME SUITABLE FO IDE SQUARE TO ROUND T R TO DRAWINGS FOR NEC IDE VOLUME DAMPER FO IDE OPPOSED BLADE DAM	R SURFACE MOUN TRANSITIONS WHE CK SIZES & CFM UN R BALANCING AT B	TING, CEILING OR RE NEEDED. ILESS NOTED ABO RANCH TAKEOFF	SIDEWALL.		R FACE.				ទ	AND DIFF NOMEN	ER, GRILLE, USER (RGD) CLATURE: •TAG AS INDICATE •FLOW RATE (CFM) L	





MECHANICAL DETAILS

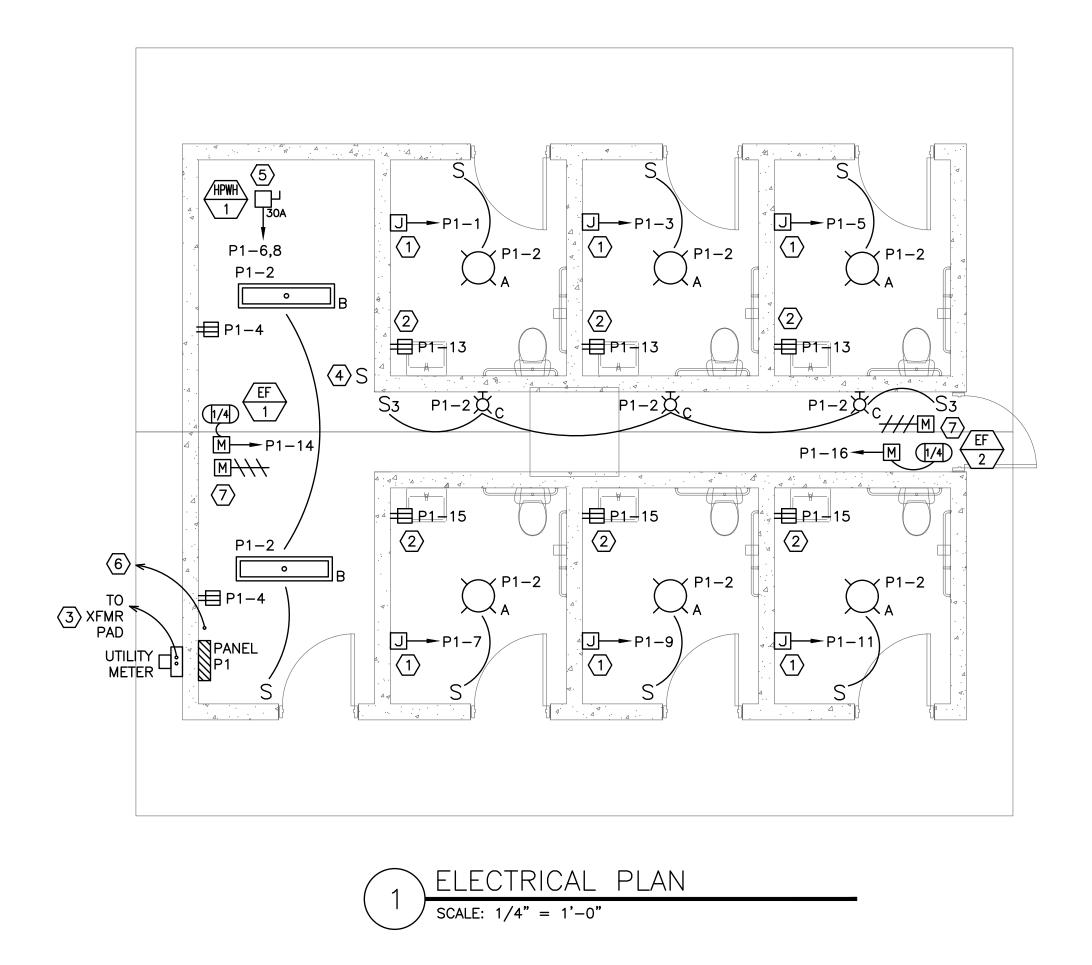


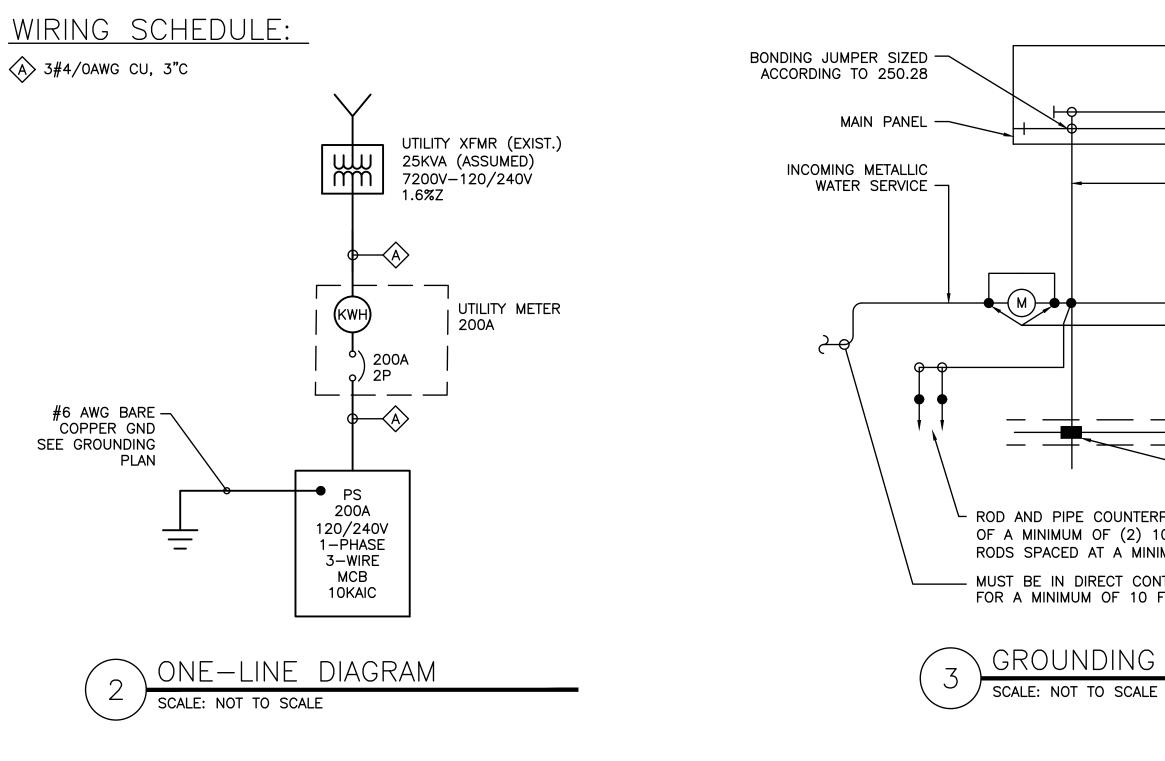


THE EXHAUST FANS SHALL BE CONTROLLED THROUGH THE APPLICATION SPECIFIC CONTROLLER AND THE WALL MOUNTED DIGITAL TIMECLOCK SWITCH. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

DURING OCCUPIED HOURS, THE MOTORIZED CONTROL DAMPER SHALL OPEN, AND THE FAN SHALL ENERGIZE. DURING UNOCCUPIED HOURS, THE FAN SHALL DE-ENERGIZE, AND THE MOTORIZED CONTROL DAMPER SHALL CLOSE.







KEYED NOTES:

- (1) ELECTRIC HAND DRYER. SEE ARCHITECTURAL PLAN FOR MOUNTING HEIGHT.
- $\langle 2 \rangle$ mount receptacle 48" aff to top of box.
- (3) SEE SITE PLAN FOR LOCATION OF UTILITY PAD MOUNT TRANSFORMER.
- $\langle 4 \rangle$ MANUAL CONTROL SWITCH FOR FANS EF-1 & EF-2.
- 5 HOT WATER HEAT PUMP. WIRING: 2#10AWG & #10GND, 3/4"C.
- $\langle 6 \rangle$ INSTALL 2" SPARE SCH. 80 PVC CONDUIT FOR FUTURE COMMUNICATIONS. INSTALL BESIDE POWER SERVICE CONDUIT WITH 12" SPACING FROM POWER CONDUIT. STUB UP A MINIMUM OF 24" FROM NON-DOOR SIDE OF TRANSFORMER PAD. CAP BOTH ENDS AND INSTALL PULL STRING.
- (7) MOTORIZED DAMPER CONTROL. FEED FROM MECHANICAL CONTROL CIRCUIT IN PANEL.

POWER SYMBOLS

°)	CIRCUIT BREAKER	
Ŧ	GROUND CONNECTION	
LP1−2	HOME RUN TO PANEL (CKT. NO. AS SHOWN)	
	TRANSFORMER	
=	20 AMPERE, 120 VOLT DUPLEX GFCI RECEPTACLE, +18" AFF	
	MOTOR	
J	JUNCTION BOX	
□,200/3	UNFUSED SAFETY SWITCH, RATING AS NOTED —— POLES —— AMPERES	
М	MANUAL TOGGLE OPERATED MOTOR STARTER	
KWH	UTILITY KWH METER	
/// M	DAMPER CONTROL	
LIGHTIN	<u>NG SYMBOLS</u>	
• X	STRIP/WRAP LIGHT FIXTURE	
¤×	ROUND SURFACE MOUNTED FIXTURE	
д×	WALL MOUNTED LIGHTING FIXTURE	
Sx	WALL MOUNTED TOGGLE SWITCH — $3 = 3$ –WAY (WHERE NOTED)	
GROUNDIN		
CONDUCTO OF METAL (SIZED AC GROUND	DUNDING ELECTRODE DR IN 1"C TO LINE SIDE LIC WATER SERVICE CCORDING RO 250.66) RACEWAY AT BOTH ENDS GROUNDING BUSHINGS	
	ED BI-METALLIC GROUND	
FOOTING		
	A #4 BARE CORE COPPER OR INSTALLED WITHIN A E FOOTING. CONNECT TO MAIN IG ELECTRODE CONDUCTOR	
	DNNECTOR	
RPOISE CONSISTING 10'x3/4" COPPER IIMUM OF 10' APART		
NTACT WITH THE EARTH FEET		

GROUNDING PLAN

GENERAL NOTES

- 1. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE.
- 2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS
- NOTED AS FURNISHED WITH EQUIPMENT (FWE).
- BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
- TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
- 5. DEVICE COVERPLATES SHALL BE BRUSHED STAINLESS STEEL TYPE.
- 6. UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE 2#12AWG & #12GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET (FOR 120V CIRCUITS) SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.
- 7. CONDUIT SYSTEMS: EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT IN THE MECHANICAL ROOM.
- 8. MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS FOLLOWS: CONVENIENCE RECEPTACLES: 24" AFF TO BOTTOM OF BOX, UNLESS NOTED OTHERWISE LIGHTING TOGGLE SWITCHES: 48" AFF TO TOP OF BOX

	KVA	LOAD	#	AMPS	Я	AMPS	#	KVA	LOAD				
DIRECTORY	A	В	CKT	BKR	PHASE	BKR	СКТ	A	В		DIRECTORY		
HAND DRYER	1.5		1	20	A	20	2	0.3		LIGHTING			
HAND DRYER		1.5	3	20	В	20	4		0.4	MECH. RM. RECEPTS.			
HAND DRYER	1.5		5	20	A	70	6	2.5		WATER HEATER (H			
HAND DRYER		1.5	7	20	В	30	8		2.5	WAIER HEALER (H	FWH-1)		
HAND DRYER	1.5		9	20	A	20	10	*		SPARE			
HAND DRYER		1.5	11	20	В	20	12		*	SPARE			
BATHROOM RECEPTS.	0.6		13	20	A	20	14	0.4		EF-1			
BATHROOM RECEPTS.		0.6	15	20	В	20	16		0.4	EF-2			
SPARE	*		17	20	A	20	18	0.2		MECHANICAL CONT	ROLS		
SPARE		*	19	20	В	20	20		*	SPARE			
SPARE	*		21	20	A	20	22	*		SPARE			
SPARE		*	23	20	В		24		*	SPARE			
SPARE	*		25	20	A		26	*		SPARE			
SPARE		*	27	20	В	20	28		*	SPARE			
SPARE	*		29	20	A	20	30	*		SPARE			
SUBTOTAL	5.1	5.1						3.4	3.3	SUE	BTOTAL		
VOLTAGE: 120Y/240V PHASE: 1		POL	ES: 3		TOTAL	KVA A	-PHASE	8	.5		54		
MAIN BREAKER: 200A	AIN BREAKER: 200A				TOTAL	. KVA B	-PHASE	8	.4	PANEL	P1		
MOUNTING: SURFACE											MECH.		
SHORT CIRCUIT RATING: 10KAIC						тот	AL KVA	16	5.9	LOCATION	RM.		
NOTES:													



		LIGHTING SC	HEDULE		
TYPE	DESCRIPTION	MANFACTURER	LAMPS	MOUNTING	NOTES
А	13" SURFACE MOUNTED LED LIGHTING FIXTURE WITH IMPACT RESISTANT DIFFUSER. 120V	BROWNLEE LIGHTING	12W LED 3000K 981 LUMENS	CEILING SURFACE	MODEL #: 7700-4-BL-12W-30K
В	4' GASKETED LINEAR LED FIXTURE. NEMA 4X HOUSING. 120V	COLUMBIA LIGHTING	30W LED 4000K 4000 LUMENS	CEILING HUNG	MODEL #: LXEN4-40LW-RFA-EU
С	WALL MOUNTED SEVERE LOCATION VAPORTIGHT FIXTURE. 120V	HUBBELL INDUSTRIAL LIGHTING	27W LED 5000K 1940 LUMENS	WALL SURFACE	MODEL #: VTC-5K-G-U-W-2-G-GR





3. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED

4. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE, GROUNDING

PANEL SCHEDULE

Kaplan Thompson Architects

102 Exchange Stree Portland, ME 04101 (207) 842-2888 kaplanthompson.co

PROJECT

Wolfe's Neck Woods State Park Bathhouse

Wolfe's Neck Road Freeport, ME 04032

CIVIL ENGINEER Gorrill Palmer 300 Southborough Drive, Suite 200 South Portland, ME 04106 p: 207-772-2515

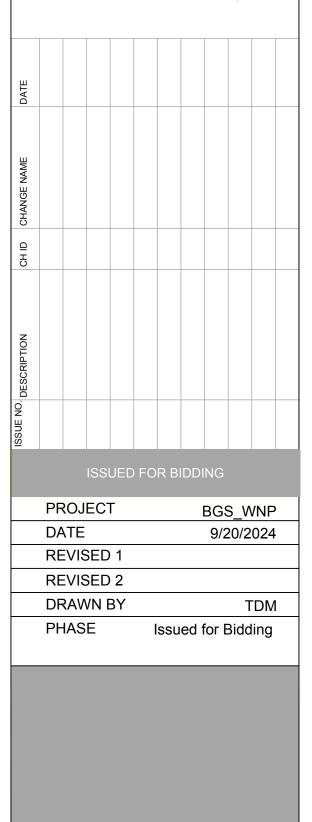
LANDSCAPE ARCHITECT Richardson Associates 11 Middle Street Saco, ME 04072 p: 207 286-9291

STRUCTURAL ENGINEER Trillium Engineering Group 189 Main Street, Suite 200 Yarmouth, ME 04096 p: 207 307-0872

MECHANICAL & PLUMBING ENGINEER Fuss & O'Neill 115 Broad Street 6th Floor Boston, MA 02110 p: 617 674-5234

ELECTRICAL ENGINEER Swiftcurrent Engineering Services, Inc. 10 Forest Falls Drive Yarmouth, ME 04096 p: 207 847-9280





Electrical Plans

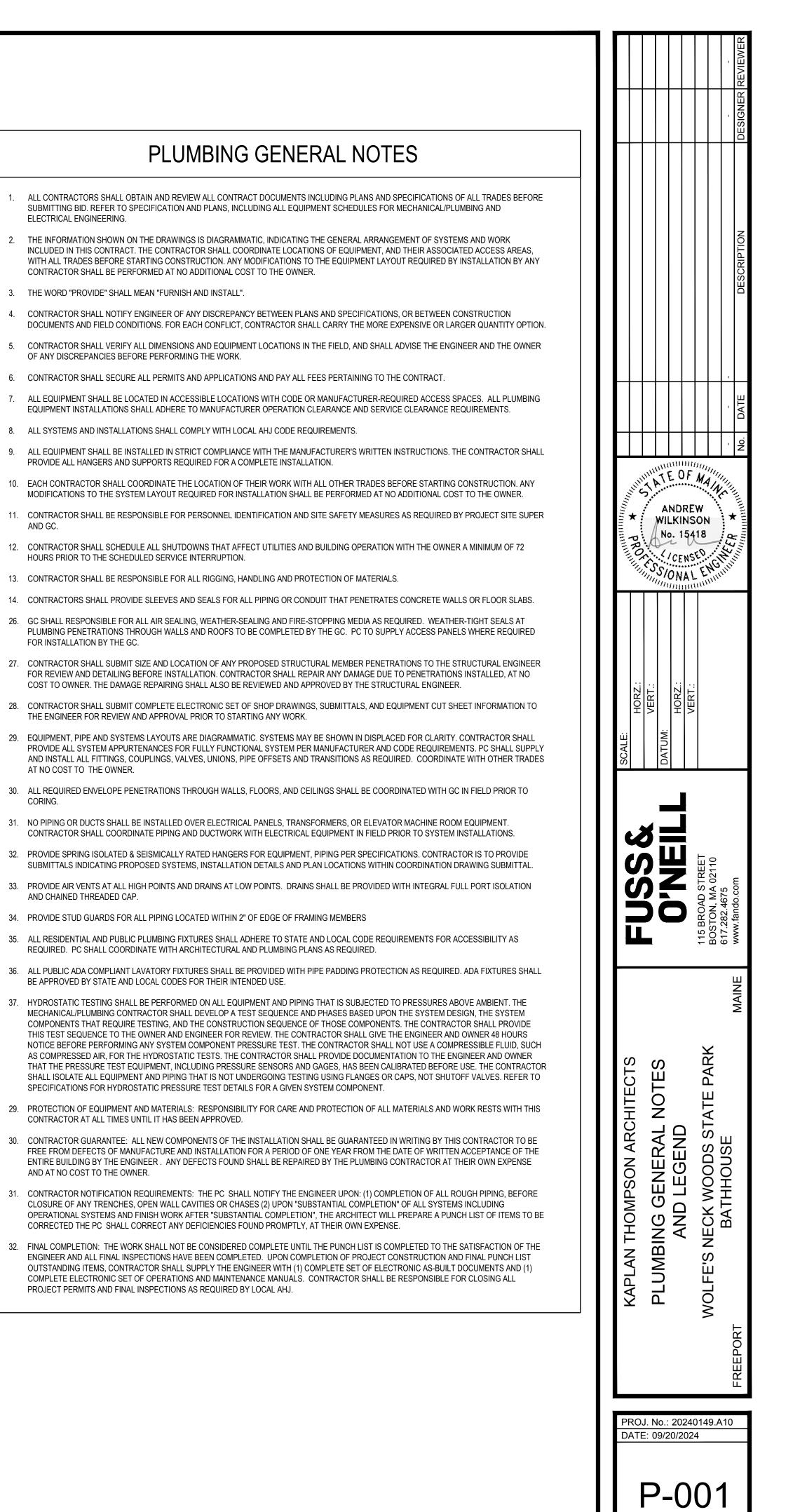
CI CO CW DHW FD GC GPM IN MAX MECH MIN NPW NTS PROVIDE PC POU V VTR W WH WM W&V

PLUMBING ABBREVIATIONS

CAST IRON
CLEAN OUT
COLD WATER
DOMESTIC HOT WATER
FLOOR DRAIN
GENERAL CONTRACTOR (PRIME CONTRACTOR & CONST. MANAGER)
GALLONS PER MINUTE
INCH
MAXIMUM
MECHANICAL
MINIMUM
NON-POTABLE WATER
NOT TO SCALE
SUPPLY AND INSTALL
PLUMBING CONTRACTOR
POINT OF USE
VENT
VENT THROUGH ROOF
SANITARY WASTE
WATER HAMMER ARRESTOR
WATER METER
COMBINED WASTE & VENT

	PLUMBING LEGEND
- -	EQUIPMENT TAG - POWER CONNECTION REQUIRED (SEE SCHEDULE)
	NEW WORK (BOLD LINE)
	EXISTING WORK (LIGHT DASHED LINE)
$\otimes_{_{FD}}$	FLOOR DRAIN
Øco	FLOOR CLEAN OUT: FLUSH WITH FINISHED FLOOR GRADE, BRASS COVER PLATE
— I _{co}	INLINE CLEAN OUT: END CLEAN-OUT WITH 18" MIN. CLEARANCE
Ť	VACUUM BREAKER
+	INTERIOR HOSE BIBB: QUARTER-TURN, FREEZE-PROOF, RECESSED ENCLOSURE
	PIPE PITCH DIRECTION
	WATER METER
Ø	WATER HAMMER ARRESTOR
	PLUMBING FIXTURE TRAP
	COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	PLUMBING VENT PIPING
	SANITARY WASTE PIPING (ABOVE FINISHED GRADE)
	BURIED WASTE PIPING (BELOW FINISHED GRADE)
	PIPE RISER UP
<u></u>	PIPE DROP DOWN
	PIPE DROP DOWN FROM TWO SIDES
	BALL VALVE W/ DRAIN
	BALL VALVE
	PIPE SLEEVE / GUIDE

AND GC. CORING.



							PLUMBIN	G FIXTUI	RE SCH	HEDULE	1						
							ACCESSORIES			PLUMBING SYSTE	MS CONNECTIONS			ELECTRICAL	CONNECTIONS		DEMADIZO
TAG #	DESIGNATION MANUF	ACTURER MODEL DIMENSIONS	INSTALLATION	FLOW RATE	FIXTURE SUPPORT	DRAINAGE ACCESSORIES	WATER SUPPLY ACCESSORIES	MISCELLANEOUS	SAN	V	CW	HW	VOLT	HZ	AMP	РН	REMARKS
WC-1A	WATER CLOSET	REFER TO SPECIFICATION SECTION 22.000	FLOOR-MOUNT	-	-	-	REFER TO SPECIFICAITON SECTION 220000 GUIDE	-	3"	2"	1/2"	-	-	-	-	-	[1]
LAV-1A	LAVATORY	REFER TO SPECIFICATION SECTION 22.000	WALL-MOUNT	-	-	-	REFER TO SPECIFICAITON SECTION 220000 GUIDE	-	1 1/2"	2"	¥2"	¥2"	-	-	-	-	[1]
HB-1	HOSE BIBB	REFER TO SPECIFICATION SECTION 22.000	WALL-MOUNT	-	-	-	REFER TO SPECIFICAITON SECTION 220000 GUIDE	-	-	-	1/2"	-	-	-	-	-	
MSB-1	MOP SINK BASIN	REFER TO SPECIFICATION SECTION 22.000	FLOOR-MOUNT	-	-	-	REFER TO SPECIFICAITON SECTION 220000 GUIDE	-	3"	1 1⁄2"	1/2"	¥2"					
EWH-1	ELECTRIC WATER HEATER	REFER TO SPECIFICATION SECTION 22.000	WALL-MOUNT	-	-	-	REFER TO SPECIFICAITON SECTION 220000 GUIDE	-	-	-	1/2"	1/2"					

	MATE	RIA	NL S	PE	CIF	ICATION	DRAIN SCHEDULE										
			Ц		ш							DRA	INAGE	A	CCESSORIES		
		SPIGOT PIPE	ESS (NO-HUB) PIPE	PE	COPPER PIPE		TAG #	DESIGNATION	MANUFACTURE	R MODEL	INSTALLATION	OUTLET	STRAINER	TRAP PRIMER	MISCELLANEOUS	REMARKS	
SER	SERVICES		JBLESS (No	COPPER DWV PIPE	TUBE TYPE L CO	REMARKS	FD-1	FLOOR DRAIN		ER TO SPECIFICATION SECTION 22.000		2"	5"	TP-1	-	(1)	
			CAST IRON - HUBL	СОРРІ	WATER TUBE		FCO	FLOOR I CLEANOUT	REFER TO SPECIFIC 22.00	FICATION SECTION	FLOOR-MOUNT	4"	-	-	-		
	1						NOTES: 1. PROVIDE TP-1	I (TRAP PRIMER) DE	I VICE.			<u> </u>					
POTABLE / NON-POTABLE COLD WATER	ABOVE GROUND BELOW GROUND				•	[1]											
POTABLE /	ABOVE GROUND				•	[2]	-										
NON-POTABLE HOT WATER	BELOW GROUND						1										
	ABOVE GROUND		•]										
ANITARY WASTE	BELOW GROUND]										
	ABOVE GROUND	•	•	•			1										
ANITARY VENT	BELOW GROUND						1										

1. FOR POTABLE / NON-POTABLE COLD WATER PIPING INSULATION (40 F - 60 F):

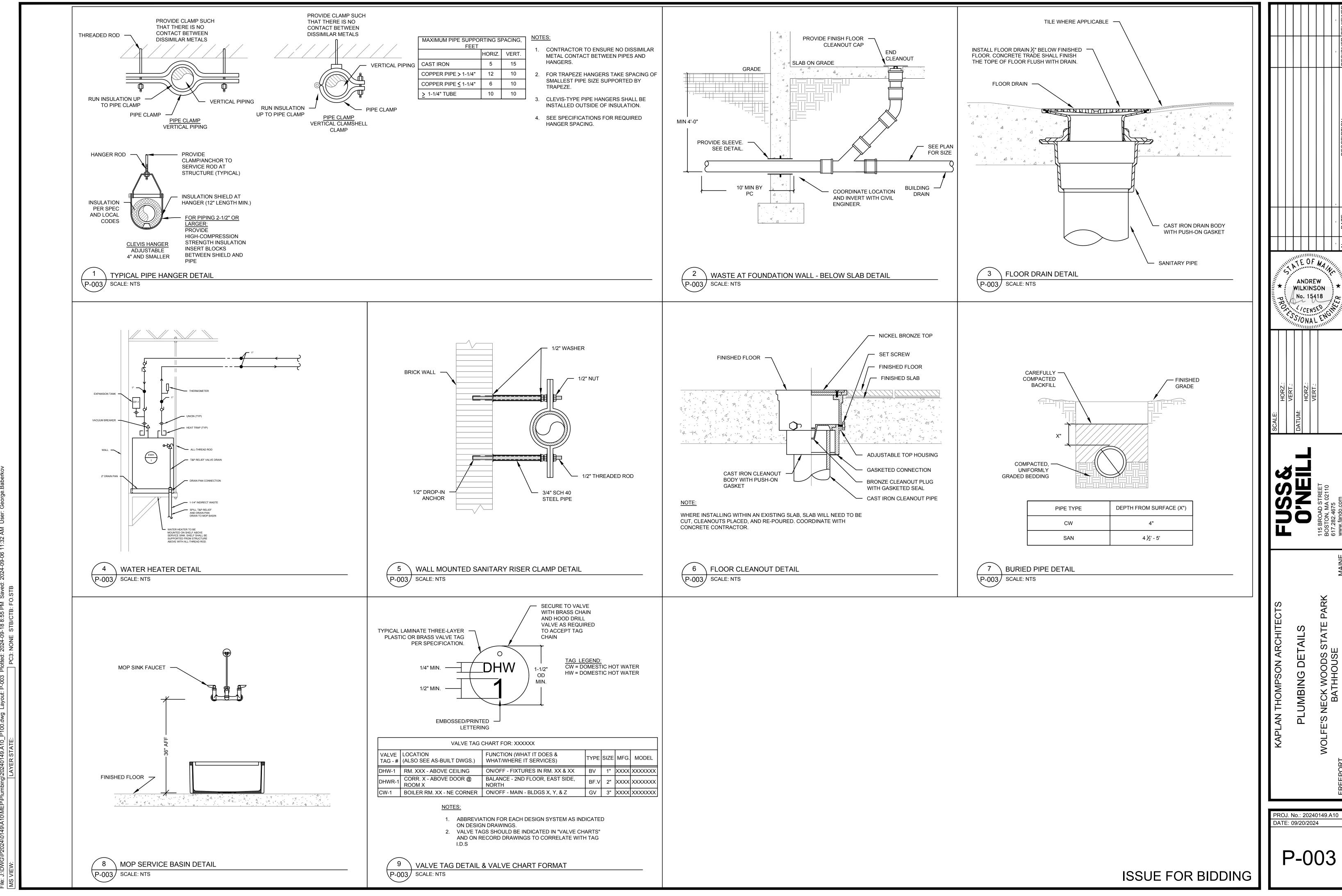
½" - 1½" PIPE : ½" THICK INSULATION
2"+ : 1" THICK INSULATION
2. FOR POTABLE / NON-POTABLE HOT / HOT WATER RETURN PIPING INSULATION (105 F - 140 F): $\frac{1}{2}$ " - 1 $\frac{1}{2}$ " PIPE : 1" THICK INSULATION 2"+ PIPE : 1½" THICK INSULATION

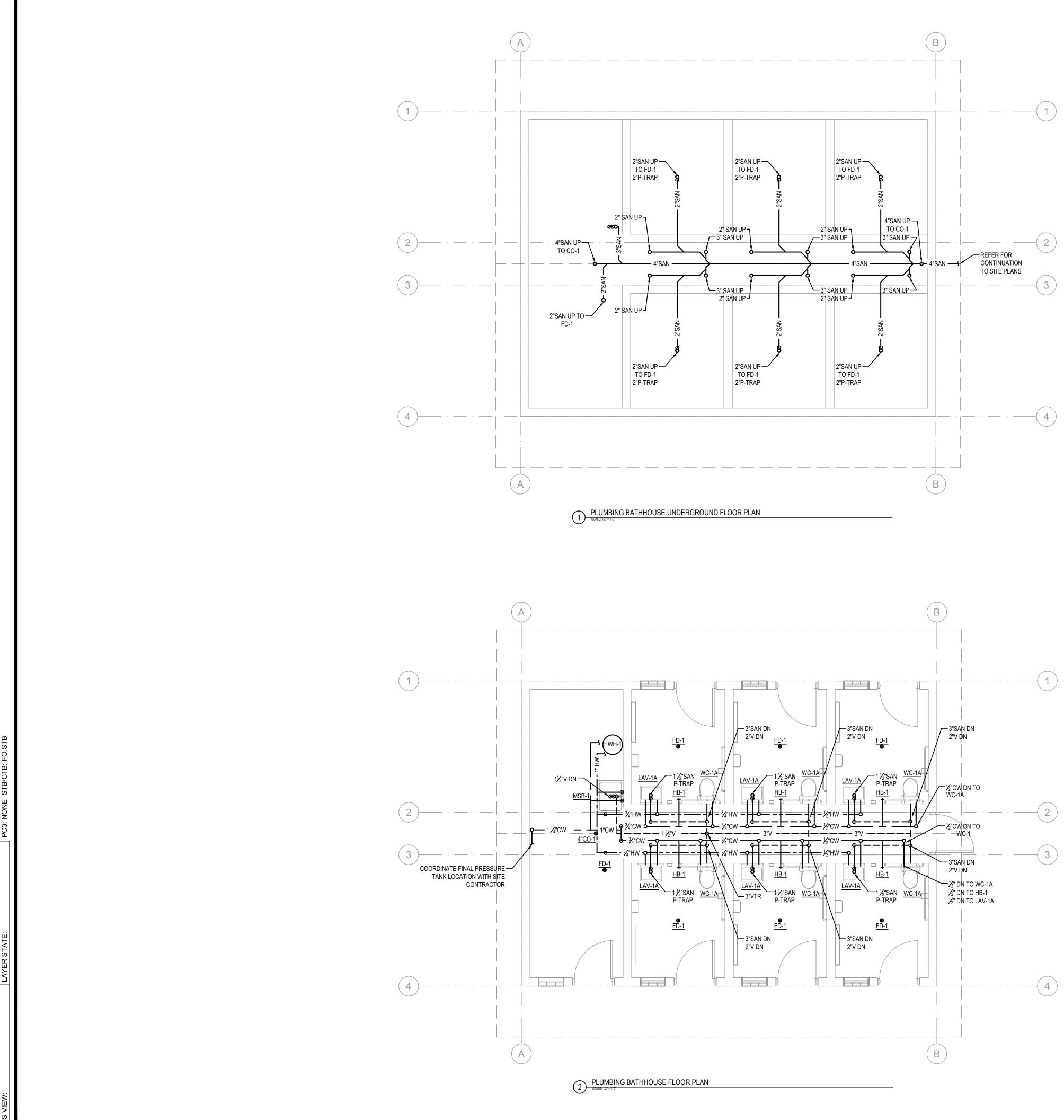
WATER HAMMER SCHEDULE							
TAG NO	FIXTURE UNIT RATING	MANUFACTURER	MODEL				
WHA	REFE	ION 22.000					
NOTES :							

	SCALE:	HORZ.:	VERT.:	DATUM:	HORZ.:	VERT.:			
		シリリー	どうつう				115 BROAD STREET BOSTON, MA 02110	617.282.4675	WWW.Iglido.colli
							WOLFE'S NECK WOODS STATE PARK	BATHHOUSE	
			J. N E: 0				149. <i>/</i>	A10	
		F	C		C)()2	2	

THE OF MAN

ANDREW WILKINSON No. 15418





PLUMBING NOTES:

- A. ALL PIPING AND EQUIPMENT IS DEPICTED DIAGRAMMATICALLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD IN COORDINATION WITH OTHER TRADES AND THEIR RESPECTIVE SYSTEM COMPONENTS.
- B. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
- C. PROVIDE CODE COMPLIANT INSTALLATION OF SYSTEMS AND EQUIPMENT MEETING THE MANUFACTURE'S INSTALLATION INSTRUCTIONS.
- D. VERIFY ALL INVERTS, PIPING ROUTES PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS REQUIRED TO MAKE SYSTEMS OPERATIONAL. SLOP WASTE AND DRAINAGE PIPING AT 1/4" PER FT MIN. FOR PIPES LESS THAN 4" IN DIAMETER, AND 1/8" PER FOOT MIN FOR 4" DIAMETER PIPING AND LARGER.
- E. WHERE THE INSTALLATION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE INSTALLATION.
- F. ROUGH-IN ALL WATER, SANITARY AND INDIRECT WASTE CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- G. INSTALL APPROVED DIELECTRIC ISOLATORS AT ALL DISSIMILAR METAL CONNECTIONS.
- H. PROVIDE SLEEVE WRAP FOR ALL PIPING STUBBED THRU THE CONCRETE FLOOR.
- I. THE PLUMBING CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF PLUMBING DRAWINGS, AND ACCURATELY MARK AND RECORD THE PLUMBING SYSTEM INSTALLATION LAYOUT. AFTER THE JOB COMPLETION ALL PLANS SHALL BE SUBMITTED AS AN "AS-BUILTS" TO THE OWNER.

