

State of Maine
Department of Transportation



Truck Storage Garage and Crew
Quarters, Fort Fairfield, Maine

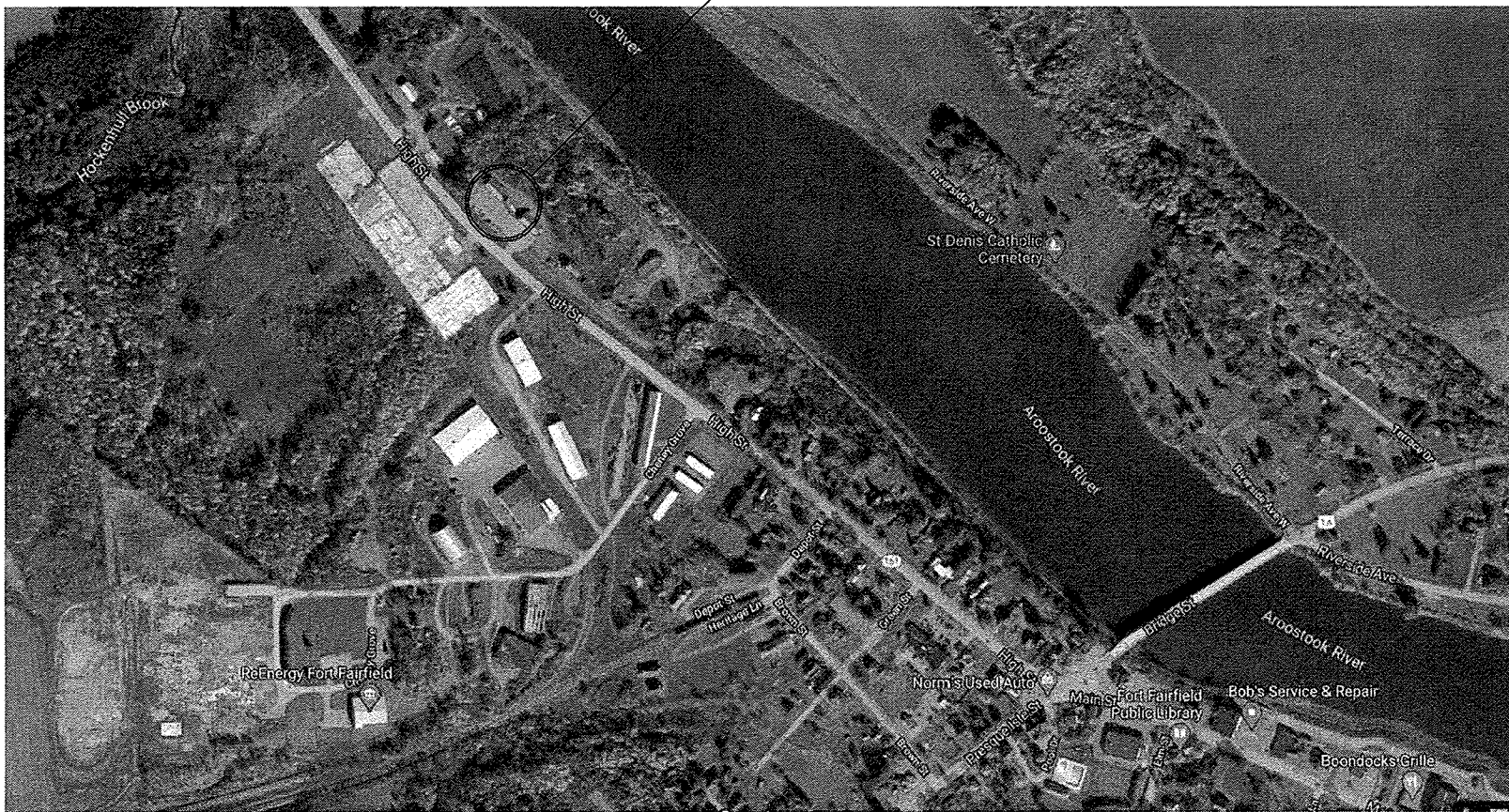
Aroostook County

WIN # 027323.00

Specifications:
Design: International Building Code 2015
ACI 318-08

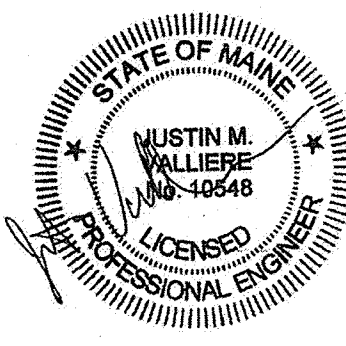
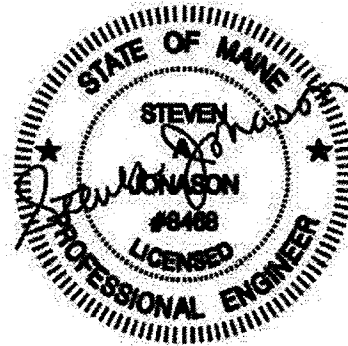
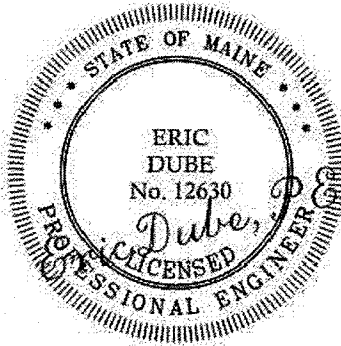
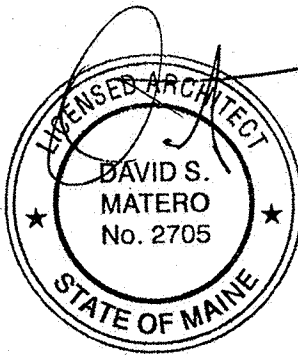
Design Loading:
Live Load Slab-on-grade 400 psf
 uniform load
Ground Snow Load 100 PSF
Wind Load 115 MPH

Materials:
Reinforcing Steel ASTM A 615, grade 60,
 plan and epoxy coated



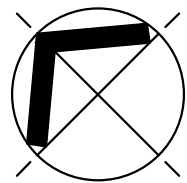
86 S Caribou Rd, Fort Fairfield, Maine
Locus Map - not to scale

INDEX OF SHEETS	
Cover Sheet	
<u>Civil</u>	
C1.0	Existing Site Plan
C1.1	Proposed Site Plan
C2.1	Site Details
C3.0	Erosion Control Details
<u>Architecture</u>	
R.1	Code Analysis
R.2	Code Review Floor Plan
R.3	Abbreviations, Symbols, Typical Mounting Heights, Partition Types
A1.1	Floor Plan
A1.2	Attic Plan
A1.3	Roof Plan
A2.1	Building Elevations
A2.2	Building Elevations
A3.1	Building Sections
A3.2	Building Sections
A3.3	Building Sections
A3.4	Building Sections
A3.5	Building Sections
A4.1	Details
A5.1	Interior Elevations
A9.1	Window Schedule & Details, Finish Schedule
A9.2	Door Schedule & Details
<u>Structural</u>	
S1.0	Structural Notes
S1.1	Structural Plans
S1.2	Structural Details
S1.3	Roof Truss Provisions
<u>Plumbing</u>	
P-100	Plumbing Plan
P-200	Plumbing Details and Legend
P-300	Plumbing Schedules
<u>Mechanical</u>	
M-100	Mechanical Plan
M-101	Mechanical Attic Plan and Section
M-200	Mechanical Details and Legend
M-300	Mechanical Schedules
<u>Electrical</u>	
E1.1	First Floor Lighting Plan
E1.2	Attic Lighting Plan
E2.1	First Floor Power Plan
E3.0	Electrical Notes, Legend, and Details
E3.1	One-Line Diagram and Panel Schedules



Project Location	86 S Caribou Rd Fort Fairfield, Maine
Program Area	Maintenance and Operations
Scope of Work	4,850 sf Truck storage garage, crew quarters, and site work

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	COMMISSIONER	CHIEF ENGINEER
	DATE 5-7-21		
 424 Fore Street Portland, ME 04101 Phone 207.842.2800 Fax 207.842.2828 www.cascobayengineering.com			
David Matero Architecture 49 Centre Street Bath, Maine 04530 207.389.4278 info@davidmatero.com			
 MECHANICAL • ELECTRICAL (207) 865-9475			
DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED
03/06/20	DSM		
ME		REVISION 1	REVISION 2
PE NUMBER		REVISION 3	FIELD CHANGES
2020.01.03			
DATE			
Cover Sheet		Issued for Bid	
SHEET NUMBER 1			



NORTH

EXIST. WOODLANDS

EXIST. GRAVEL TO REMAIN

EXIST. FUEL AREA TO REMAIN

EXIST. BUILDING TO REMAIN IN PLACE AND REMAIN IN OPERATION THROUGHOUT CONSTRUCTION

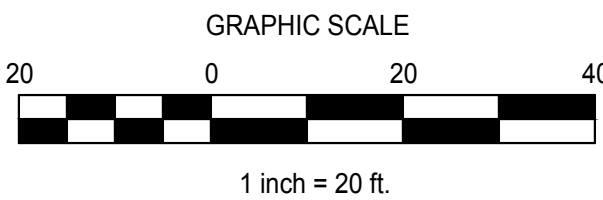
EXIST. PAVEMENT TO REMAIN

EXIST. POLE, ELECTRICAL LINES TO BE REMOVED AFTER PROPOSED BUILDING IS CONSTRUCTED AND NEW ELECTRICAL LINES ARE INSTALLED

EXIST. UTILITY POLE, TYP.

STREET UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION

ROUTE 161



GENERAL NOTES

- 1) BOUNDARY AND TOPOGRAPHY INFO. TAKEN FROM GOOGLE EARTH AERIAL PHOTOGRAPHY
- 2) THE CONTRACT WORK TO BE PERFORMED ON THIS PROJECT CONSISTS OF FURNISHING ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, IMPLEMENTS, PARTS AND SUPPLIES NECESSARY FOR OR APPURTENANT TO, THE INSTALLATION OF CONSTRUCTION IMPROVEMENTS IN ACCORDANCE WITH THESE DRAWINGS AND AS FURTHER ELABORATED IN ANY ACCOMPANYING SPECIFICATIONS.
- 3) THE WORK SHALL BE PERFORMED IN A THOROUGH WORKMANLIKE MANNER. ALL CONTRACTORS TO CONFORM TO ALL APPLICABLE OSHA STANDARDS. ANY REFERENCE TO A SPECIFICATION OR DESIGNATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, FEDERAL SPECIFICATIONS, OR OTHER STANDARDS, CODES OR ORDERS, REFERS TO THE MOST RECENT OR LATEST SPECIFICATION OR DESIGNATION.
- 4) ALL CONSTRUCTION WITHIN THE TOWN RIGHT OF WAY SHALL COMPLY WITH TOWN PUBLIC WORKS STANDARDS. ALL CONSTRUCTION WITHIN A STATE RIGHT OF WAY SHALL COMPLY WITH MAINE D.O.T. STANDARDS. ALL UTILITY CONSTRUCTION SHALL CONFORM TO RESPECTIVE UTILITY STANDARDS.
- 5) THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY THE TOWN PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TOWN REQUIRED TO PERFORM ALL THE WORK (STREET OPENINGS, BUILDING PERMIT, ETC.). THE CONTRACTOR SHALL POST ALL BONDS AS REQUIRED, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- 6) PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR IS TO INFORM ALL AREA UTILITY COMPANIES AND GOVERNMENTAL AGENCIES OF PLANNED CONSTRUCTION. THE SITE CONTRACTOR IS REQUIRED TO CONTACT DIG-SAFE (1-800-225-4977) AT LEAST 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION TO VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS.
- 7) THE PROJECT DRAWINGS ARE GENERALLY SCHEMATIC AND INDICATE THE POSSIBLE LOCATION OF EXISTING UNDERGROUND UTILITIES. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY MAPS, MUNICIPAL RECORD MAPS, AND FIELD SURVEY. IT IS NOT GUARANTEED TO BE CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES, WHEN THOSE SERVICES ARE TO BE LEFT IN PLACE. THE CONTRACTOR IS TO PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING THE EXCAVATING AND BACKFILLING OPERATIONS. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE FOUND, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
- 8) OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC. WITHIN TEN FEET (10') OF ANY ELECTRIC LINE. IF THE CONTRACTOR MUST OPERATE CLOSER THAN 10', THE CONTRACTOR MUST CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS BEFORE ENDOUCHING ON THIS REQUIREMENT.
- 9) IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLANS, APPROVALS, AND DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS IN THE FIELD AND CONTACT THE DESIGN ENGINEER IF THERE ARE ANY DISCREPANCIES REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT AN APPROPRIATE REVISION CAN BE MADE PRIOR TO BIDDING.
- 10) THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF THE BUILDING AREA. BUILDING AND DRIVEWAYS SHOWN ARE CONCEPTUAL. ALL SITE DIMENSIONS ARE REFERENCED TO PROPERTY LINES, THE FACE OF CURBS, OUTSIDE FACE OF WALLS, OR EDGE OF PAVINGS UNLESS OTHERWISE NOTED.
- 11) ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED IN WRITING BY THE OWNER, DESIGN ENGINEER, AND APPROPRIATE GOVERNMENTAL AGENCY PRIOR TO INSTALLATION.
- 12) THE CONTRACTOR SHALL RESTORE ALL UTILITY STRUCTURES, PIPE, UTILITIES, PAVEMENT, CURBS, SIDEWALKS, AND LANDSCAPED AREAS DISTURBED BY CONSTRUCTION TO AS GOOD AS BEFORE BEING DISTURBED AS DETERMINED BY CITY CODE ENFORCEMENT OFFICIALS. ANY DAMAGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 13) ALL EXCAVATION SHALL BE BACKFILLED TO EXISTING GRADE BEFORE THE END OF THE DAY OR ADEQUATELY PROTECTED FROM DANGER TO HUMANS AND ANIMALS.
- 14) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE OWNER WILL PROVIDE A BENCH MARK AT THE CONSTRUCTION SITE FROM WHICH TO BEGIN LAYOUT.
- 15) THE CONTRACTOR SHALL GUARANTEE THE FAITHFUL REMEDY OF ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND GUARANTEES PAYMENT FOR ANY RESULTING DAMAGE WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT.
- 16) THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
- 17) A PRE-CONSTRUCTION CONFERENCE WITH THE OWNER, DESIGNERS, TOWN OFFICIALS AND CONTRACTOR SHALL BE REQUIRED BEFORE ANY CONSTRUCTION OCCURS ON THE PROJECT. DURING CONSTRUCTION THERE SHALL BE WEEKLY PROGRESS MEETINGS WITH THE OWNER (ON SITE OR TELECONFERENCE) UNTIL PROJECT COMPLETION.
- 18) PROPER IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE OF PARAMOUNT IMPORTANCE FOR THIS PROJECT. 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 ONSITE INSPECTIONS OF THE OWNER, THEIR REPRESENTATIVES, OR STATE/LOCAL/ FEDERAL INSPECTORS AT NO ADDITIONAL COST TO THE OWNER.

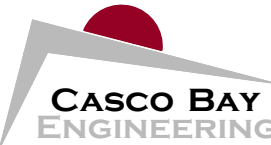
LEGEND		
EXISTING	DESCRIPTION	PROPOSED
	GRANITE MONUMENT - 3' OFFSET	
	IRON PIN FOUND/SET	
	IRON ROD FOUND	
	CAPED IRON ROD FOUND	
	DRILL HOLE FOUND	
	GRANITE MONUMENT FOUND	
	STREET LINE	
	LOT SETBACKS	
	PROPERTY LINE	
	ABUTMENT LINE	
	"NO CUT" BUFFER	
	WETLANDS	
	EDGE OF ROAD/TRAVELLED WAY	
	SOIL TEST PIT	
	CONTOUR	
	SPOT GRADE	
	GAS SHUT-OFF	
	UTILITY POLE	
	OVERHEAD ELECTRICAL	
	UNDERGROUND ELECTRICAL	
	ELECTRICAL TRANSFORMER	
	FIRE HYDRANT	
	WATER LINE	
	WATER GATE	
	SEWER LINE	
	SEWER MANHOLE	
	DRAINAGE MANHOLE	
	CATCH BASIN	
	UNDERDRAIN/STORMDRAIN	
	UNDERDRAIN	
	SILT FENCE	
	TEMP. STONE CHECK DAM	
	GRADING AND FLOW DIRECTION	
	HAY BALES	
	EROSION CONTROL BLANKET	
	STORMWATER BOUNDARY	
	STORMWATER FLOW (To)	
	FACE OF LEDGE OUTCROP	
	BIRCH	
	MAPLE	
	TREE LINE	
	SITE LIGHTING (BAYSIDE FIXTURE)	
	STONE WALL	

PREPARED FOR:

STATE OF MAINE DOT

Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine

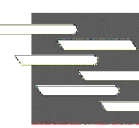
WIN 27323.00



424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2808
www.cascobayengineering.com

David Matero
Architect

100 Commercial
South Portland, ME 04106
207.864.4078
info@dmatero.com



BENNETT
ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

DATE	BY	DESIGNED	CHECKED	REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
03.31.21	DL	ED						
03.31.21								
ME 12630								
PE NUMBER								
03.31.21								
DATE								

EXISTING SITE PLAN

ISSUED FOR BID

SHEET NUMBER

C1.0

EROSION AND SEDIMENTATION NOTES

1. THIS PLAN HAS BEEN DEVELOPED TO PROVIDE A STRATEGY FOR DEALING WITH SOIL EROSION AND SEDIMENTATION DURING AND AFTER PROJECT CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARD AND SPECIFICATIONS FOR EROSION PREVENTION AS CONTAINED IN THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: "MAINE EROSION AND SEDIMENT CONTROL BMPs" PUBLISHED BY THE MAINE DEP, LATEST EDITION.

GENERAL EROSION AND SEDIMENTATION CONTROL PRACTICES

1. EROSION/SEDIMENT CONTROL DEVICES
- THE FOLLOWING EROSION SEDIMENTATION CONTROL DEVICES ARE PROPOSED FOR CONSTRUCTION ON THIS PROJECT. INSTALL THESE DEVICES AS INDICATED ON THE PLANS.
- 1.1 SILT FENCE: SILT FENCE WILL BE INSTALLED ALONG THE DOWN GRADING EDGES OF DISTURBED AREAS TO TRAP RUNOFF BORNE SEDIMENTS UNTIL THE SITE IS STABILIZED. IN AREAS WHERE STORMWATER DISCHARGES THE SILT FENCE WILL BE REINFORCED WITH HAY BALES TO HELP MAINTAIN THE INTEGRITY OF THE SILT FENCE AND TO PROVIDE ADDITIONAL TREATMENT.
- 1.2 HAY BALES TO BE PLACED IN LOW FLOW DRAINAGE SWALES AND PATHS TO TRAP SEDIMENTS AND REDUCE RUNOFF VELOCITIES. DO NOT PLACE HAY BALES IN FLOWING WATER OR STREAMS.
- 1.3 RIPRAP: PROVIDE RIPRAP IN AREAS WHERE CULVERTS DISCHARGE OR AS SHOWN ON THE PLANS.
- 1.4 LOAM, SEED, & MULCH: ALL DISTURBED AREAS, WHICH ARE NOT OTHERWISE TREATED, SHALL RECEIVE PERMANENT SEEDING AND MULCH TO STABILIZE THE DISTURBED AREAS. THE DISTURBED AREAS WILL BE REVEGETATED WITHIN 5 DAYS OF FINAL GRADING. SEEDING REQUIREMENTS ARE PROVIDED AT THE END OF THIS SPECIFICATION.
- 1.5 STRAW AND HAY MULCH: USED TO COVER DENUDED AREAS UNTIL PERMANENT SEED OR EROSION CONTROL MEASURES ARE IN PLACE. MULCH BY ITSELF CAN BE USED ON SLOPES LESS THAN 15% IN SUMMER AND 8% IN WINTER. ALL OTHER SLOPES MUST BE COVERED WITH JUTE MESH OVER MULCH, OR CURLEX II OR EXCELSIOR MAY BE USED IN PLACE OF JUTE MESH AND MULCH OVER LOAM AND SEED.
- 1.6 MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8% VEGETATED DRAINAGE SWALES SHALL BE LINED WITH EXCELSIOR OR CURLEX.
2. TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES
- PROVIDE THE FOLLOWING TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION OF THE DEVELOPMENT:
- 2.1 SILTATION FENCE ALONG THE DOWNGRADIENT SIDE OF THE PARKING AREAS AND OF ALL FILL SECTIONS. THE SILTATION FENCE WILL REMAIN IN PLACE UNTIL THE SITE IS 85% REVEGETATED.
- 2.2 HAY BALES PLACED AT KEY LOCATIONS TO SUPPLEMENT THE SILT FENCE.
- 2.3 PROTECT STOCKPILES OF STUMPS, GRUBBINGS, OR COMMON EXCAVATION AS FOLLOWS:
- A. SOIL STOCKPILE SIDE SLOPES SHALL NOT EXCEED 2:1.
- B. AVOID PLACING TEMPORARY STOCKPILES IN AREAS WITH SLOPES OVER 10 PERCENT, OR NEAR DRAINAGE SWALES. SEE ITEM 3 IN CONSTRUCTION PHASE NOTES BELOW.
- C. STABILIZE STOCKPILES WITHIN 15 DAYS BY TEMPORARILY SEEDING WITH A HYDROSEED METHOD CONTAINING AN EMULSIFIED MULCH TACKIFIER OR BY COVERING THE STOCKPILE WITH MULCH.
- D. SURROUND STOCKPILE SOIL WITH SILTATION FENCE AT BASE OF PILE.
- 2.4 ALL DENUDED AREAS WHICH HAVE BEEN ROUGH GRADED AND ARE NOT LOCATED WITHIN THE BUILDING PAD, OR PARKING AND DRIVEWAY SUBBASE AREA SHALL RECEIVE MULCH WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL OR WITHIN 15 DAYS AFTER COMPLETING THE ROUGH GRADING OPERATIONS. IN THE EVENT THE CONTRACTOR COMPLETES FINAL GRADING AND INSTALLATION OF LOAM AND SOD WITHIN THE TIME PERIODS PRESENTED ABOVE, INSTALLATION OF MULCH AND NETTING, WHERE APPLICABLE, IS NOT REQUIRED.
- 2.5 IF WORK IS CONDUCTED BETWEEN OCTOBER 15 AND APRIL 15, ALL DENUDED AREAS ARE TO BE COVERED WITH HAY MULCH, APPLIED AT TWICE THE NORMAL APPLICATION RATE, AND ANCHORED WITH FABRIC NETTING. THE PERIOD BETWEEN FINAL GRADING AND MULCHING SHALL BE REDUCED TO A 15 DAY MAXIMUM.
- 2.6 TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE HAS BEEN STABILIZED OR IN AREAS WHERE PERMANENT EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. PERMANENT EROSION CONTROL MEASURES
- THE FOLLOWING PERMANENT CONTROL MEASURES ARE REQUIRED BY THIS EROSION/SEDIMENTATION CONTROL PLAN:
- 3.1 ALL AREAS DISTURBED DURING CONSTRUCTION, BUT NOT SUBJECT TO OTHER RESTORATION (PAVING, RIPRAP, ETC.), WILL BE LOAMED, LIMED, FERTILIZED AND SEEDED. NATIVE TOPSOIL SHALL BE STOCKPILED AND REUSED FOR FINAL RESTORATION WHEN IT IS OF SUFFICIENT QUALITY.
- 3.2 SLOPES GREATER THAN 2:1 WILL RECEIVE RIPRAP.

CONSTRUCTION PHASE

- THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION DURING CONSTRUCTION OF THIS PROJECT.
1. ONLY THOSE AREAS UNDER ACTIVE CONSTRUCTION WILL BE CLEARED AND LEFT IN AN UNTREATED OR UNVEGETATED CONDITION. IF FINAL GRADING, LOAMING AND SEEDING WILL NOT OCCUR WITHIN 15 DAYS, SEE ITEM NO. 4.
2. PRIOR TO THE START OF CONSTRUCTION IN A SPECIFIC AREA, SILT FENCING AND/OR HAY BALES WILL BE INSTALLED AT THE TOE OF SLOPE AND IN AREAS AS LOCATED ON THE PLANS TO PROTECT AGAINST ANY CONSTRUCTION RELATED EROSION. IMMEDIATELY FOLLOWING CONSTRUCTION OF CULVERTS AND SWALES, RIP RAP APRONS SHALL BE INSTALLED, AS SHOWN ON THE PLANS.
3. TOPSOIL WILL BE STOCKPILED WHEN NECESSARY IN AREAS WHICH HAVE MINIMUM POTENTIAL FOR EROSION AND WILL BE KEPT AS FAR AS POSSIBLE FROM THE EXISTING DRAINAGE COURSE. NO STOCKPILE SHALL BE CLOSER THEN 100' OF A RESOURCE INCLUDING, BUT NOT LIMITED TO, WETLANDS, STREAMS, AND OPEN WATER BODIES. ALL STOCKPILES SHALL HAVE A SILTATION FENCE BELOW THEM REGARDLESS OF TIME OF PRESENCE. ALL STOCKPILES EXPECTED TO REMAIN LONGER THAN 15 DAYS SHALL BE:
- A. TREATED WITH ANCHORED MULCH (WITHIN 5 DAYS OF THE LAST DEPOSIT OF STOCKPILED SOIL).
- B. SEEDDED WITH CONSERVATION MIX AND MULCHED IMMEDIATELY.
- C. INSTALL SILT FENCE AROUND STOCKPILE AT BASE OF PILE.
- STOCKPILES TO HAVE SILT FENCE INSTALLED AT TIME OF ESTABLISHMENT AT BASE OF PILE.
4. ALL DISTURBED AREAS EXPECTED TO REMAIN LONGER THAN 30 DAYS SHALL BE EITHER:
- A. TREATED WITH ANCHORED MULCH IMMEDIATELY, OR
- B. SEEDDED WITH CONSERVATION MIX OF ANNUAL RYE GRASS (0.9 LBS/1000 SQ. FT.) AND MULCHED IMMEDIATELY.
5. ALL GRADING WILL BE HELD TO A MAXIMUM 2:1 SLOPE WHERE PRACTICAL. ALL SLOPES WILL BE STABILIZED WITH PERMANENT SEEDING, OR WITH STONE, WITHIN 5 DAYS AFTER FINAL GRADING IS COMPLETE. (SEE POST-CONSTRUCTION REVEGETATION FOR SEEDING SPECIFICATION.)
6. ALL CULVERTS WILL BE PROTECTED WITH STONE RIPRAP (D50 = 6" UNLESS OTHERWISE SPECIFIED) AT INLETS AND OUTLETS.

POST-CONSTRUCTION REVEGETATION

- THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION AS SOON AS AN AREA IS READY TO UNDERGO FINAL GRADING.
1. A MINIMUM OF 4" OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND GRADED TO A UNIFORM DEPTH AND NATURAL APPEARANCE, OR STONE WILL BE PLACED ON SLOPES TO STABILIZE SURFACES.
2. IF FINAL GRADING IS REACHED DURING THE NORMAL GROWING SEASON (4/15 TO 9/15), PERMANENT SEEDING WILL BE DONE AS SPECIFIED BELOW. PRIOR TO SEEDING, LIMESTONE SHALL BE APPLIED AT A RATE OF 138 LBS/1000 SQ. FT. AND 10:20:20 FERTILIZER AT A RATE OF 18.4 LBS/1000 SQ.FT WILL BE APPLIED. BROADCAST SEEDING AT THE FOLLOWING RATES:
- | LAWNS | SWALES |
|---------------------------------------|-------------------------------|
| KENTUCKY BLUEGRASS 0.46 LBS/1000 SF. | RED TOP 0.05 LBS/1000 SF. |
| CREeping RED FESCUE 0.46 LBS/1000 SF. | TALL FESCUE 0.46 LBS/1000 SF. |
| PERENNIAL RYE GRASS 0.11 LB/1000 SF. | |
3. AN AREA SHALL BE MULCHED IMMEDIATELY AFTER IS HAS BEEN SEEDDED. MULCHING SHALL CONSIST OF HAY MULCH, HYDRO-MULCH, JUTE NET OVER MULCH, PRE-MANUFACTURED EROSION MATS OR ANY SUITABLE SUBSTITUTE DEEMED ACCEPTABLE BY THE DESIGNER.
- A. HAY MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. HAY MULCH SHALL BE SECURED BY EITHER: (NOTE: SOIL SHALL NOT BE VISIBLE)
- I. BEING DRIVEN OVER BY TRACKED CONSTRUCTION EQUIPMENT ON GRADES OF 5% AND LESS.
- II. BLANKETED BY TACKED PHOTODEGRADABLE/BIODEGRADABLE NETTING, OR WITH SPRAY, ON GRADES GREATER THAN 5%.
- III. SEE NOTE 6, GENERAL NOTES, AND NOTE 8, WINTER CONSTRUCTION.
- B. HYDRO-MULCH SHALL CONSIST OF A MIXTURE OF EITHER ASPHALT, WOOD FIBER OR PAPER FIBER AND WATER SPRAYED OVER A SEEDDED AREA. HYDRO-MULCH SHALL NOT BE USED BETWEEN 9/15 AND 4/15.
4. CONSTRUCTION SHALL BE PLANNED TO ELIMINATE THE NEED FOR SEEDING BETWEEN SEPTEMBER 15 AND APRIL 15. SHOULD SEEDING BE NECESSARY BETWEEN SEPTEMBER 15 AND APRIL 15 THE FOLLOWING PROCEDURE SHALL BE FOLLOWED. ALSO REFER TO NOTE 9 OF WINTER CONSTRUCTION.
- A. ONLY UNFROZEN LOAM SHALL BE USED.
- B. LOAMING, SEEDING AND MULCHING WILL NOT BE DONE OVER SNOW OR ICE COVER. IF SNOW EXISTS, IT MUST BE REMOVED PRIOR TO PLACEMENT OF SEED.
- C. WHERE PERMANENT SEEDING IS NECESSARY, ANNUAL WINTER RYE (1.2 LBS/1000 SQ.FT) SHALL BE ADDED TO THE PREVIOUSLY NOTED AREAS.
- D. WHERE TEMPORARY SEEDING IS REQUIRED, ANNUAL WINTER RYE (2.6 LBS/1000 SQ. FT.) SHALL BE SOWN INSTEAD OF THE PREVIOUSLY NOTED SEEDING RATE.
- E. FERTILIZING, SEEDING AND MULCHING SHALL BE APPLIED TO LOAM THE DAY THE LOAM IS SPREAD BY MACHINERY.
- F. ALTERNATIVE HAY MULCH SHALL BE SECURED WITH PHOTODEGRADABLE/BIODEGRADABLE NETTING. TRACKING BY MACHINERY ALONE WILL NOT SUFFICE.
5. FOLLOWING FINAL SEEDING, THE SITE WILL BE INSPECTED EVERY 30 DAYS UNTIL 85% COVER HAS BEEN ESTABLISHED. RESEEDING WILL BE CARRIED OUT BY THE CONTRACTOR WITHIN 10 DAYS OF NOTIFICATION BY THE ENGINEER THAT THE EXISTING CATCH IS INADEQUATE.

MONITORING SCHEDULE

- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MONITORING, MAINTAINING, REPAIRING, REPLACING AND REMOVING ALL OF THE EROSION AND SEDIMENTATION CONTROLS OR APPOINTING A QUALIFIED SUBCONTRACTOR TO DO SO.
- MAINTENANCE MEASURES WILL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, A VISUAL INSPECTION WILL BE MADE OF ALL EROSION AND SEDIMENTATION CONTROLS AS FOLLOWS:
1. HAY BALE BARRIERS, SILT FENCE, AND STONE CHECK DAMS SHALL BE INSPECTED AND REPAIRED ONCE A WEEK OR IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL. SEDIMENT TRAPPED BEHIND THESE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REDISTRIBUTED TO AREAS UNDERGOING FINAL GRADING. SHOULD THE HAY BALE BARRIERS PROVE TO BE INEFFECTIVE, THE CONTRACTOR SHALL INSTALL SILT FENCE BEHIND THE HAY BALES.
2. VISUALLY INSPECT RIPRAP ONCE A WEEK OR AFTER EACH SIGNIFICANT RAINFALL AND REPAIR AS NEEDED. REMOVE SEDIMENT TRAPPED BEHIND THESE DEVICES ONCE IT ATTAINS A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE DAM OR RISER. DISTRIBUTE REMOVED SEDIMENT OFF-SITE OR TO AN AREA UNDERGOING FINAL GRADING.
3. REVEGETATION OF DISTURBED AREAS WITHIN 25' OF DRAINAGE-COURSE/STREAM WILL BE SEEDDED WITH THE "MEADOW AREA MIX" AND INSPECTED ON A WEEKLY BASIS OR AFTER EACH SIGNIFICANT RAINFALL AND RESEEDDED AS NEEDED. EXPOSED AREAS WILL BE RESEDED AS NEEDED UNTIL THE AREA HAS OBTAINED 100% GROWTH RATE. PROVIDE PERMANENT RIPRAP FOR SLOPES IN EXCESS OF 3:1 AND WITHIN 25' OF DRAINAGE COURSE.

EROSION CONTROL DURING WINTER CONSTRUCTION

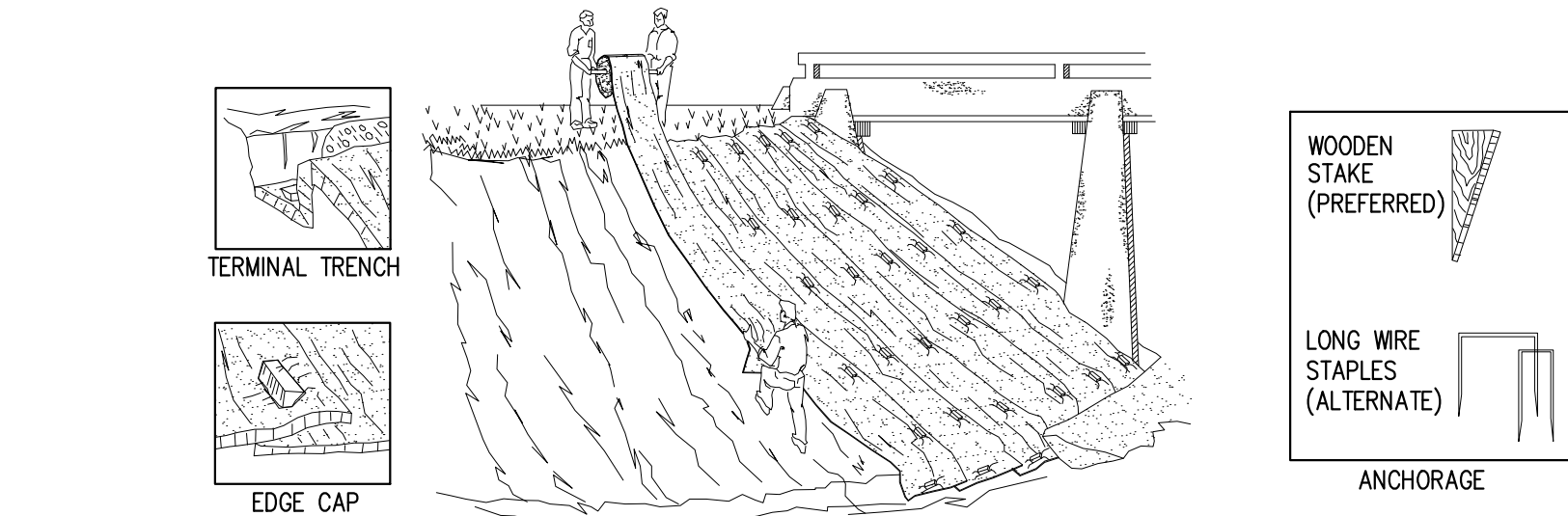
1. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
2. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHALL BE LIMITED TO THOSE AREAS TO BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. AT THE END OF EACH WORK WEEK NO AREAS MAY BE LEFT UNSTABILIZED OVER THE WEEKEND.
4. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
5. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 150 LB. PER 1000 S.F. (WITH OR WITHOUT SEEDING) OR DORMANT SEEDDED, MULCHED AND ANCHORED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH. NOTE: AN AREA IS ALSO CONSIDERED STABLE IF SODDED, COVERED WITH GRAVEL (PARKING LOTS) OR STRUCTURAL SAND.
6. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1 AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW, DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY, SILT FENCE OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS SHOWN ON THE DESIGN DRAWINGS. NOTE: DORMANT SEEDING SHOULD NOT BE ATTEMPTED UNLESS SOIL TEMPERATURE REMAINS BELOW 50 DEGREES AND DAY TIME TEMPERATURES REMAIN IN THE 30'S.
7. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%. VEGETATED DRAINAGE SWALES SHALL BE LINED WITH EXCELSIOR OR CURLEX.
8. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1 THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
9. BETWEEN THE DATES OF OCTOBER 15 TO NOVEMBER 1, WINTER RYE IS RECOMMENDED FOR STABILIZATION. AFTER NOVEMBER 1, WINTER RYE IS NOT EFFECTIVE. AROUND NOVEMBER 15 OR LATER, ONCE TEMPERATURES OF THE AIR AND SOIL PERMIT, DORMANT SEEDING IS EFFECTIVE.
10. IN THE EVENT OF SNOWFALL (FRESH OR CUMULATIVE) GREATER THAN 1 INCH DURING WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM THE AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

SITE INSPECTION AND MAINTENANCE

1. WEEKLY INSPECTIONS, AS WELL AS ROUTINE INSPECTIONS FOLLOWING RAIN FALLS, SHALL BE CONDUCTED BY THE GENERAL CONTRACTOR OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES UNTIL FINAL ACCEPTANCE OF THE PROJECT (85% GRASS CATCH). NECESSARY REPAIRS SHALL BE MADE TO CORRECT UNDERMINING OR DETERIORATION. FINAL ACCEPTANCE SHALL INCLUDE A SITE INSPECTION TO VERIFY THE STABILITY OF ALL DISTURBED AREAS AND SLOPES. UNTIL FINAL INSPECTION, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL IMMEDIATELY BE CLEANED, AND REPAIRED BY THE GENERAL CONTRACTOR AS REQUIRED. DISPOSAL OF ALL TEMPORARY EROSION AND CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- IT IS RECOMMENDED THAT THE OWNER HIRE THE SERVICES OF THE DESIGN ENGINEER TO PROVIDE COMPLIANCE INSPECTIONS (DURING ACTIVE CONSTRUCTION) RELATIVE TO IMPLEMENTATION OF THE STORMWATER AND EROSION CONTROL PLANS. SUCH INSPECTIONS SHOULD BE LIMITED TO ONCE A WEEK OR AS NECESSARY AND BE REPORTABLE TO THE OWNER, TOWN AND DEP.
2. SHORT-TERM SEDIMENTATION MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT ALL SWALES AND STRUCTURES PRIOR TO TURNING PROJECT OVER TO THE CITY.

MAINTENANCE AFTER CONSTRUCTION

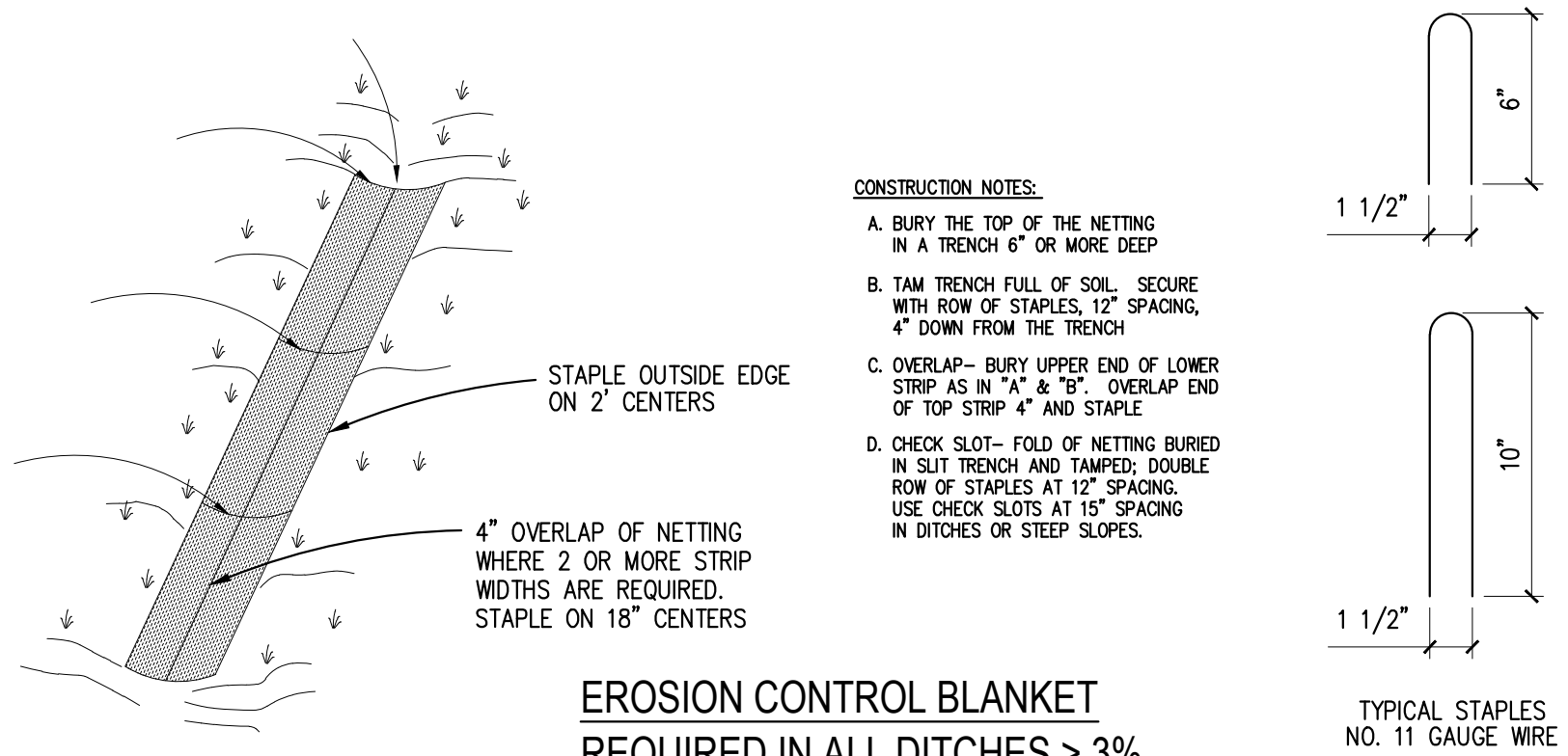
1. LONG-TERM PROVISIONS FOR PERMANENT MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES AFTER ACCEPTANCE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER OR THEIR DESIGNEE. SUCH RESPONSIBILITIES INCLUDE BUT ARE NOT LIMITED TO THOSE DETAILED AS FOLLOWS:
- A. PARKING LOT SHALL BE MECHANICALLY SWEEPED TWICE PER YEAR. THE FIRST SHALL TAKE PLACE IN THE MID WINTER (JANUARY THAW) TO REMOVE ACCUMULATED SANDS FROM WINTER SANDING TO THIS POINT. THE SECOND SWEEPING SHALL TAKE PLACE AFTER WINTER SANDING OPERATIONS TERMINATE BUT PRIOR TO MAY 1.
- B. INSPECTION OF STORMWATER OUTLET STRUCTURE SHOULD BE CONDUCTED TWICE PER YEAR. ACCESS TO THE STRUCTURE IS THROUGH THE TOP. THE OIL/WATER SEPARATOR UNIT SHALL BE PUMPED DOWN AND THE SEDIMENT AND TRASH SHALL BE REMOVED AT THE TIME OF THE INSPECTION. THE REMOVAL OF ALL SEDIMENT AND TRASH WILL HELP MINIMIZE VOLUME LOSS.
2. THE OWNER SHALL FILE A YEARLY MAINTENANCE REPORT TO THE CITY DOCUMENTING THE REQUIRED MAINTENANCE FOR THE STORMWATER SYSTEM.



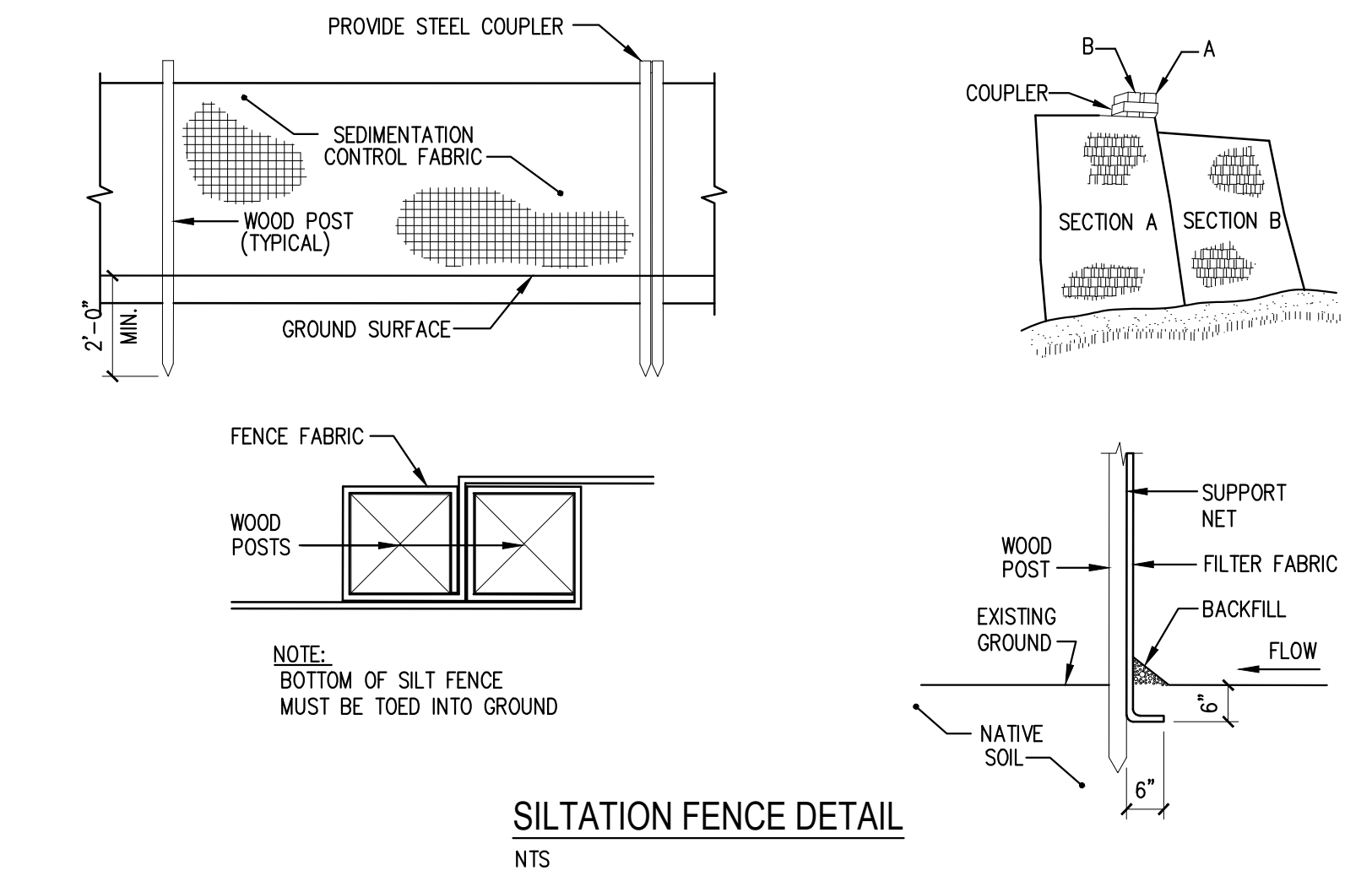
- UNROLL MAT ONTO GROUND IN DIRECTION OF WATER FLOW.
- MAT SHOULD LIE FLAT. DO NOT STRETCH MAT OVER GROUND. STRETCHING MAY CAUSE MAT TO BRIDGE DEPRESSIONS IN THE SURFACE AND ALLOW EROSION UNDERNEATH.
- BURY TRANSVERSE TERMINAL ENDS OF MAT TO SECURE AND PREVENT EROSION UNDERNEATH.
- SECURE MAT SNUGLY INTO ALL TRANSVERSE CHECK SLOTS.
- BACKFILL AND COMPACT TRENCHES AND CHECK SLOTS AFTER STAKING THE MAT IN BOTTOM OF TRENCH.
- OVERLAP ROLL ENDS BY THREE (3) FEET (MIN.) WITH UPSLOPE MAT ON TOP TO PREVENT UPLIFT OF MAT END BY WATER FLOW. IF INSTALLING IN THE DIRECTION OF A CONCENTRATED WATER FLOW, START NEW ROLLS IN A TRANSVERSE DITCH.
- OVERLAP ADJACENT EDGES OF MAT BY THREE (3) INCHES (MIN.) AND STAKE.
- WOOD STAKES ARE RECOMMENDED FOR PINNING MAT TO THE GROUND SURFACE. STAKES SHOULD BE 1" X 3" NOMINAL STOCK CUT IN A TRIANGULAR SHAPE. STAKES SHOULD BE 12" TO 18" LONG, DEPENDING ON SOIL DENSITY.
- DRIVE WOODEN STAKES TO WITHIN THREE (3) INCHES OF GROUND SURFACE. DO NOT DRIVE FLUSH TO SURFACE.
- IN ALL TRANSVERSE TERMINAL TRENCHES AND CHECK SLOTS, STAKE EACH MAT AT ITS CENTER AND OVERLAP EDGES BEFORE BACKFILLING AND COMPACTING.
- STAKE OVERLAPS LONGITUDINALLY AT THREE (3) TO FIVE (5) FOOT INTERVALS.
- FOLLOW COLORED DOT PATTERNS BY MANUFACTURER

REQUIRED ON ALL SLOPES > 8% (WINTER CONSTRUCTION)
REQUIRED ON ALL SLOPES > 15% (SUMMER CONSTRUCTION)

EROSION CONTROL BLANKET
GENERAL INSTALLATION GUIDELINES ON SLOPES



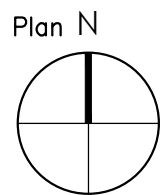
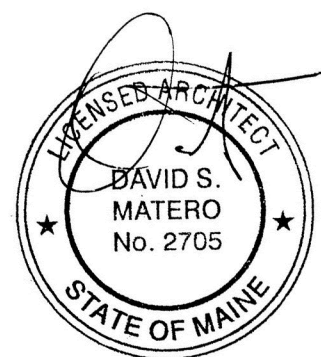
EROSION CONTROL BLANKET
REQUIRED IN ALL DITCHES > 3%
NOTE: GRADING PLAN GOVERNS IN ALL LOCATIONS



1. EXCAVATE A 6"x6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.
3. DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM. JOIN SECTION AS SHOWN ABOVE.
4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING THE FABRIC FLAP ON UNDISTURBED GROUND AND PILING AND TAMPING FILL AT THE BASE, BUT MUST BE ACCOMPLISHED BY AN INTERCEPTION DITCH.
5. BARRIER SHALL BE MIRAFI SILT FENCE OR APPROVED EQUAL.

EROSION CONTROL MIX DETAIL
N.T.S.

STATE OF MAINE DOT		Fort Fairfield Truck Storage and Crew Quarters		86 S Caribou Rd, Fort Fairfield, Maine		WIN 27323.00	
PREPARED FOR:		Casco Bay Engineering		424 Fore Street Portland, ME 04101 Phone 207.842.2800 Fax 207.842.2808 www.cascobayengineering.com		David Matero Architect	
DATE		BY		DESIGN/DETAILED		CHECKED/REVIEWED	
03.31.21		DL		03.31.21		REVISION 1	
03.31.21		ED		03.31.21		REVISION 2	
03.31.21		03.31.21		03.31.21		REVISION 3	
03.31.21		03.31.21		03.31.21		FIELD CHANGES	
EROSION CONTROL DETAILS		ISSUED FOR BID		SHEET NUMBER		C3.0	



PREPARED FOR:

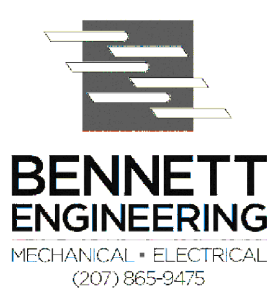
STATE OF MAINE DOT

Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine

WIN 27323.00



David Matero
Architecture
49 Centre St
Bath, Maine 04500
207.389.4278
info@davidmatero.com



DESIGN/DETAILED	CHECKED/REVIEWED	BY	DATE	ME	PE NUMBER	DATE
		STS	03.31.21	DSM		
REVISION 1						03.31.21
REVISION 2						
REVISION 3						
FIELD CHANGES						

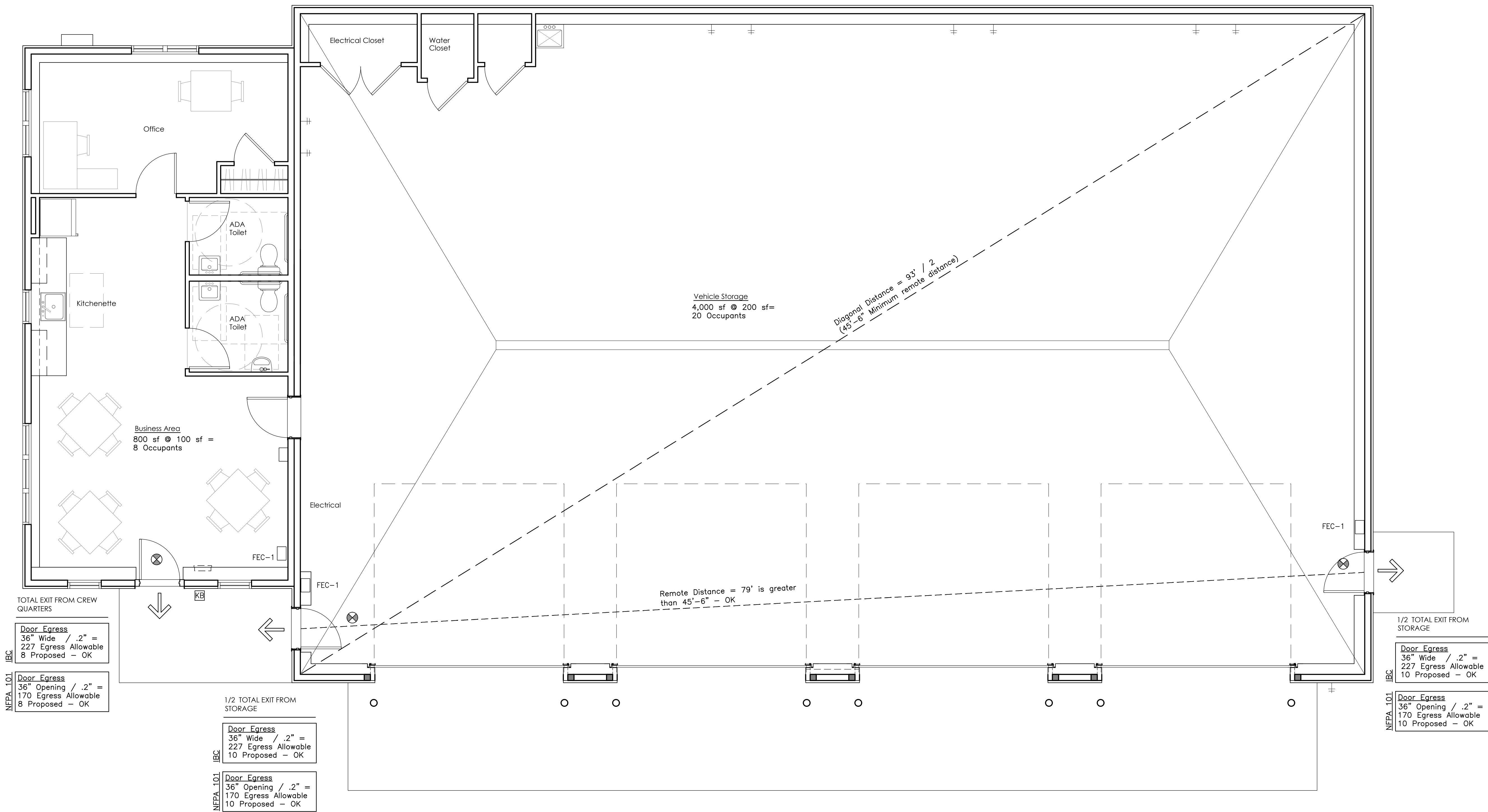
Code Review Plan

Not for Construction

Scale : As Noted

SHEET NUMBER

R.2



1

Proposed First Floor Plan

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

NOTES

- Life safety equipment and locations shall conform to all applicable codes.
- Provide smoke detectors on both sides of doors with magnetic hold opens if specified.
- Provide pull station at each assembly door egress.
- Provide duct smoke detectors at each 2,000 CFM supply duct.
- Provide duct smoke detectors at each 15,000 CFM supply and exhaust duct.
- Electrical outlets shall be provided for all plug-in equipment. All other outlets shall be located per all applicable codes.

Fire Extinguisher Cabinet

FEC-1 Wall mounted Fire Extinguisher by Larsen or approved equivalent. Supplied and installed by owner

Portable Fire Extinguishers:

- Location of fire extinguishers and cabinets shall conform to NFPA 10 Standards for Fire Extinguisher Cabinets.
- Portable fire extinguisher rating shall be 2-A, spacing shall not exceed a maximum of 75' and 3,000 sf.
- Portable fire extinguisher rating in combustible cooking media exist shall be rated Class K, spacing shall not exceed a maximum travel distance of 30'

SYMBOL LEGEND (REFER TO ELECTRICAL DRAWINGS)

- LED Exit Light (unswitched)
- Two Head Emergency Lighting per Electrical Drawings
- Fire Alarm Audio/Visual, mount 6'-8" AFF, dB Level in Field
- CO / NO2 Detection System per Electrical Drawings
- Fire Alarm pull station, mount 48" AFF
- Fire Alarm Control Panel Station
- Knox Box (location and type to be approved by Sherman Fire Department)
- Fire extinguisher cabinet and type

Vehicle Storage Building

Egress - IBC (Table 1004.1.1)		
First Floor		
Vehicle Storage	4,000 sf @ 200 gross =	20 Occupants
Business Occupancy	800 sf @ 100 sf =	8 Occupants
Total All Spaces		28 Occupants
Egress - Life Safety (Table 7.3.1.2 Occupant Load Factor)		
First Floor		
Vehicle Storage	4,000 sf =	10 Occupants
Business Occupancy	800 sf @ 150 sf =	5 Occupants
Total All Spaces		15 Occupants

GENERAL NOTES

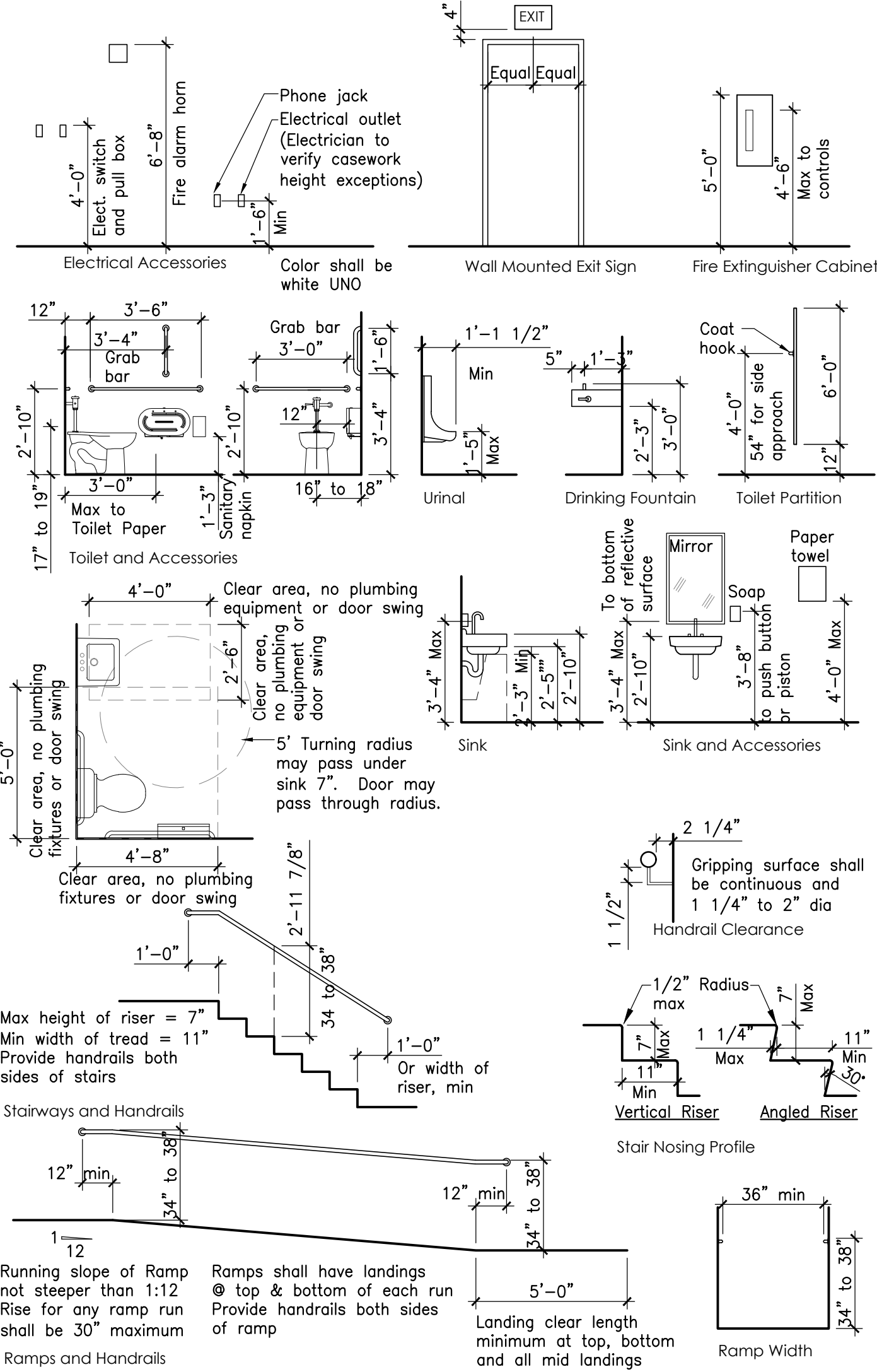
1. All work included in these drawings and specifications shall conform to all state, national, and other codes and ordinances.
2. The General Contractor shall be responsible for obtaining building permits and for payment of all fees and hook-ups. Owner will obtain State Fire Marshal approval.
3. General contractor shall verify all dimensions and report any discrepancies to the architect before proceeding with work. Do not scale drawings, work from dimensions only.
4. The General Contractor shall obtain approval from the owner for staging areas and hours of allowable work times.
5. Provide appropriate reinforcing within partitions for support of all grab bars, shelving brackets, cabinets, door frames, water coolers, cubbies, fire extinguishers, lighting, and other wall mounted equipment or appliances indicated in documents.
6. General Contractor shall maintain a safe egress way throughout construction that is clearly identified.
7. All doors shall be located a minimum of 4" (wall to frame) off adjoining stud walls, except where noted or dimensioned otherwise.
8. All handicapped toilet rooms, grab bars, and door openings shall meet the requirements of ANSI 117.1 latest edition, and the American Disability Act (ADA) for handicapped accessibility.
9. Provide ADA insulation under sinks at exposed pipes.
10. All exposed pipes and conduits shall be painted, color to be chosen by Architect.
11. All exposed structure shall be painted, color to be chosen by Architect.
12. All gypsum wall board within 3'-0" of plumbing fixtures shall be moisture resistant.
13. Walls and partitions within 2' of service sinks, urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of not less than 4' above the floor (MR gypsum board not acceptable as a finished product).
14. All gypsum board in the Toilets or other wet areas shall be mold & moisture resistant gypsum board.
15. Before penetrating or otherwise modifying joists, beams, or other structural members, consult with the Architect on maximum size and location of penetrations.
16. Provide double studs at all door frames over 3'-0" wide.
17. All materials in this building shall be new and not previously used UNO.
18. All penetrations through rated walls and floor/ceiling assemblies shall be firestopped by specific subcontractor requiring penetration.
19. All exits shall be kept readily accessible and unobstructed at all times.
20. Location of every exit shall be clearly indicated by exit signs placed, if required, at an angle with the exit opening. Install directional signs to serve as guides form all portions of the corridor or floor.
21. Dimensions are to the face of framing, studs, structural grid lines and/or foundations UNO.
22. Install Rockwool sound attenuation batt insulation in all bathroom partitions.
23. General Contractor shall properly dispose of all demolished and construction debris off-site, and shall make every effort to conserve and recycle materials.
24. General Contractor shall install blocking in walls for cabinetry, shelving, handrails, mirror and accessories.
25. Provide a continuous bead and sealant in all joints in the building envelope and penetrations that may allow for passage of of moisture or vapor gas through structure.
26. All signage to conform with ADA, including raised braille characters in public areas.
27. Guarantee: All materials and work shall be guaranteed for a minimum of one year from the date of final payment.

APPLICABLE CODES

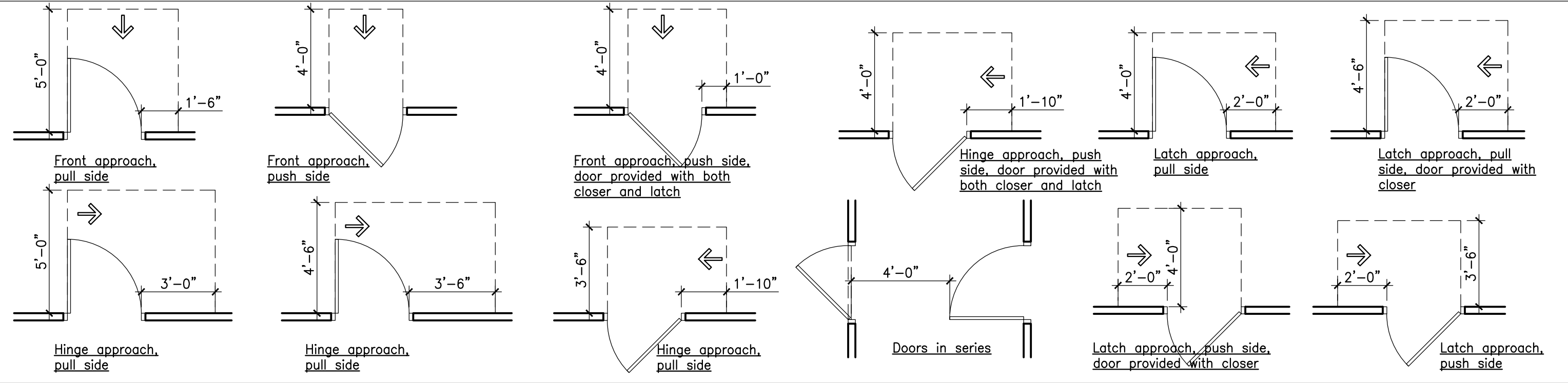
International Building Code, 2015
International Existing Building Code, 2015
NFPA 101 Life Safety Code, 2015
Uniform Plumbing Code 2015
ASHRAE 90.1 – 2007 Energy Standards for Buildings except Low-Rise Residential
ASHRA 62.1 – 2007 Ventilation for Acceptable Indoor Air Quality
2009 International Energy Conservation Code

Plumbing, Mechanical and Electrical system shall be design/build and shall meet all applicable codes.

STANDARD HEIGHTS AND CLEARANCES / TYPICAL BARRIER FREE REQUIREMENTS

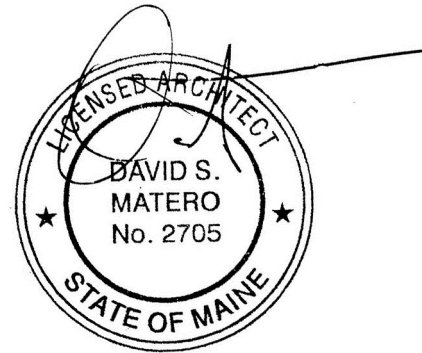


MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

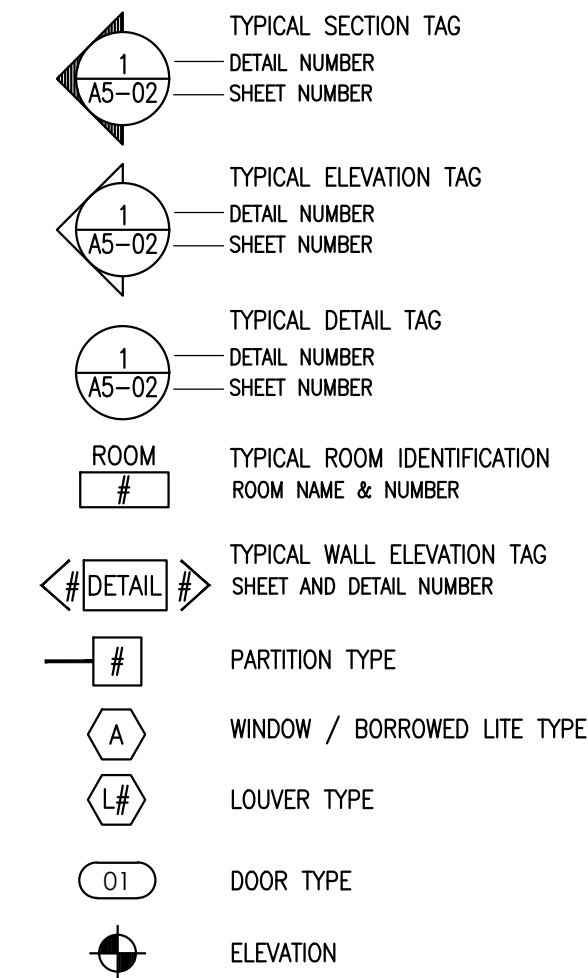


ABBREVIATIONS

Act	Acoustical Tile	Ga	Gauge	Prep	Preparation
AFF	Above Finished Floor	GC	General Contractor	PSF	Pounds per Square Foot
Alt	Alternate	Gl	Glass	PSI	Pounds per Square Inch
Alum	Aluminum	GWB	Gypsum Wallboard	PT	Pressure Treated
AP	Access Panel	Gyp	Gypsum	QT	Quarry Tile
Arch	Architect				
BD	Board	HD	High Density	R	Radius, Riser
Bit	Bituminous	HR	Hour	RD	Roof Drain
Bldg	Building	HC	Hollow Core	Rec	Recreation
Bldg	Blocking	H, Hgt	Height	Rect	Rectangular
BO	Bottom Of	HM	Hollow Metal	Ref	Reference
Btw	Between	Hor	Horizontal	Req	Required
		Htg	Heating	Reinf	Reinforcing
		HVAC	Heating/Ventilation/Air Conditioning	Rev	Revised, Revision
Cab	Cabinet	HW	Hot Water	Rm	Room
CB	Catch Basin	Hyd	Hydrant	RO	Rough Opening
CF	Cubic feet			RWB	Rubber Wall Base
CJ	Control Joint				
Clo	Closet	Incl	Include, Including	S	South
Cla	Ceiling	ID	Inside Diameter	San	Sanitary
CMU	Concrete Masonry Unit	In (")	Inch	SC	Solid Core
Co	Cleanout	Insul	Insulate, Insulating	SD	Storm Drain
Col	Column	Int	Interior	SF	Square Foot
Conc	Concrete	Inv	Invert	Shl	Sheet
Const	Construction	JC	Janitor's Closet	Sim	Similar
Cont	Continue, Continuous	Jt	Joint	Spec	Specification
Coord	Coordinate			STC	Sound Transmission Coefficient
CT	Ceramic Tile	Lam	Laminated	Std	Standard
CUH	Cabinet Unit Heater	Lav	Lavatory	Stl	Steel
CW	Cold Water	LCC	Lead Coated Copper	Sto	Storage
CY	Cubic Yard	LF	Linear Foot	Susp	Suspended
		Lin	Linear		
DAP	Dens Armor Plus	Max	Maximum	Tr	Tread
Dbl	Double	Mech	Mechanical	Tel	Telephone
DF	Drinking Fountain	Mfr	Manufacturer	Temp	Temperature, Tempered
Dia	Diameter	MH	Manhole	T&G	Tongue and Groove
Diag	Diagonal	Misc	Miscellaneous	Th	Thickness
Dim	Dimension	MO	Masonry Opening	TO	Top Of
Dn	Down	MR	Moisture Resistant	TV	Television
Dwg	Drawing	Mtd	Mounted	Typ	Typical
		Mtg	Mounting		
E	East	Mtl	Metal	UL	Underwriters Laboratories
Ea	Each	N	North	UNO	Unless Noted Otherwise
EF	Exhaust Fan	Nat	Natural	Util	Utility
EJ	Expansion Joint	NIC	Not in Contract		
Elev	Elevation	No	Number	VCT	Vinyl Composite Tile
Elec	Electrical	NTS	Not to Scale	Vent	Ventilation
Eq	Equal			Vert	Vertical
Exam	Examination	OC	On Center	Vest	Vestibule
Ex, Exist	Existing	OD	Outside Diameter	VWB	Vinyl Wall Base
Exp	Expansion	OH	Opposite Hand		
Ext	Exterior	PI	Plate	W	West, Width
FAP	Fire Alarm Pull Station	PLam	Plastic Laminate	W/D	Washer / Dryer
FBO	Furnished by Owner	Plywd	Plywood	WC	Water Closet
FCO	Floor Cleanout	Pnt	Paint	Wd	Wood
FD	Floor drain	Poly	Polyethylene	W/O	Without
FDN	Foundation	Pre	Pre-finished	WWM	Welded Wire Mesh
FEC	Fire Extinguisher Cabinet			XPS	Extruded Polystyrene
Fin	Finish				
Flr	Floor				
Ft (')	Foot				
Ftg	Footing				



LEGEND SYMBOLS



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com



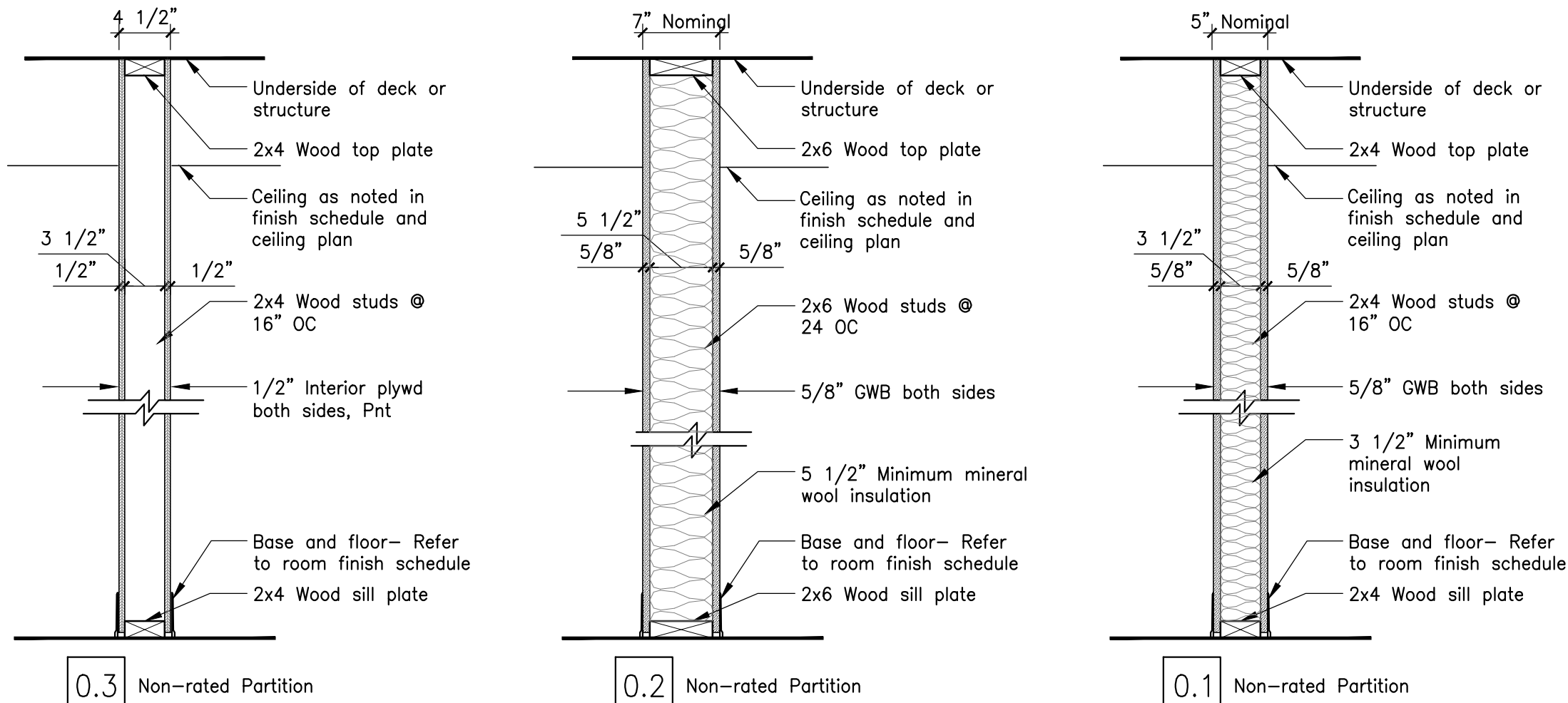
DATE	03.31.21	ME	PE NUMBER	03.31.21	DATE
BY	STS	DSM			

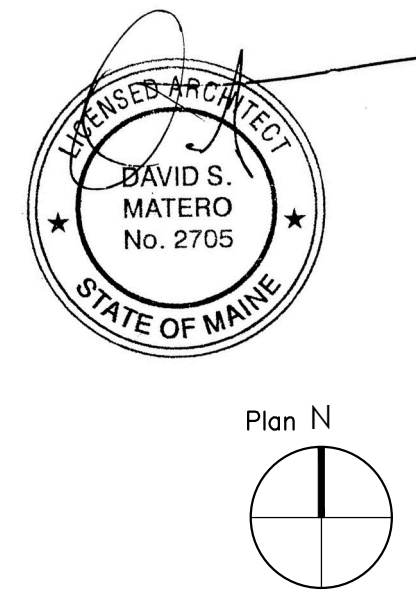
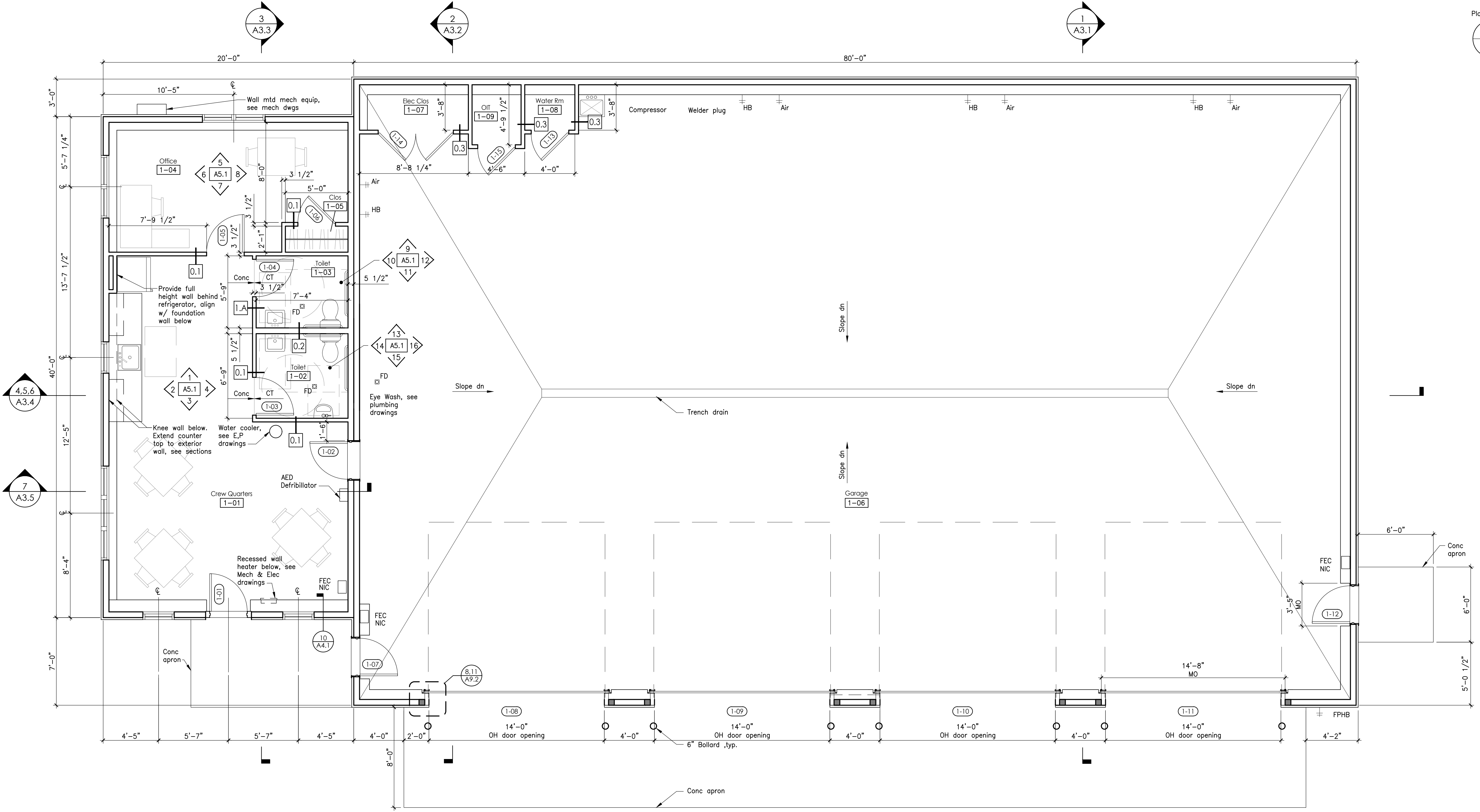
DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

Abbreviations, Symbols,
Typical Mounting Heights,
Partition Types
Not for Construction
Scale : As Noted

SHEET NUMBER

R.3





1 Floor Plan

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

STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00

CASCO BAY
ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.6269
www.cascobayengineering.com

David Matero
49 Centre St.
Bath, Maine 04530
207.389.4278
info@davidmatero.com

BENNETT
ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

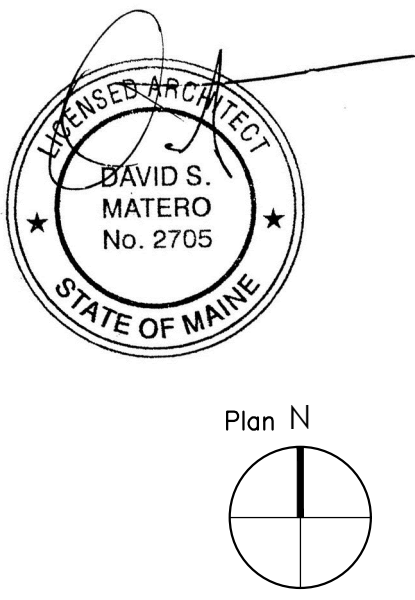
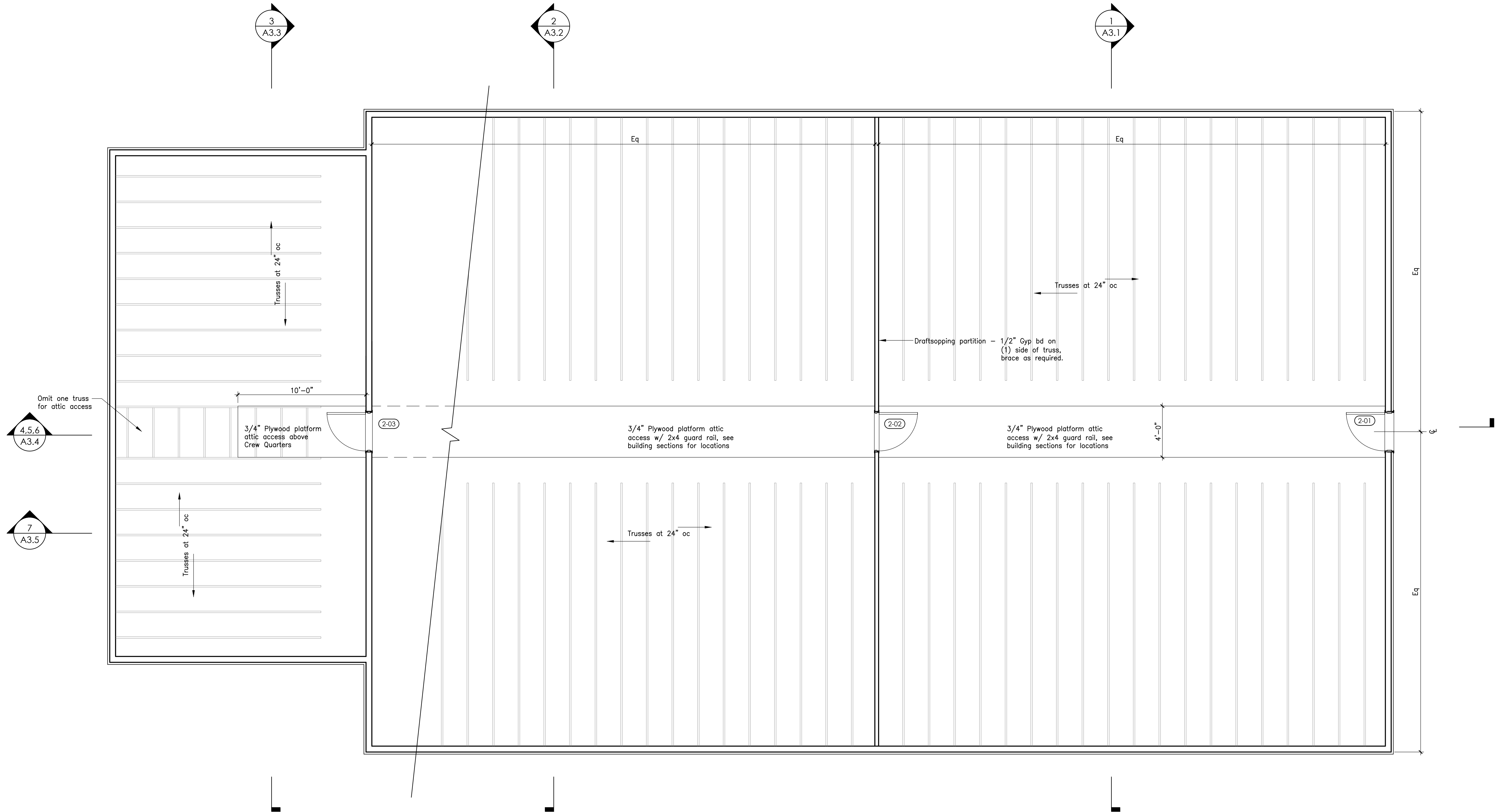
DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
BY STS	DATE 03.31.21	ME	PE NUMBER	DATE	
DSM	03.31.21		03.31.21		

Floor Plan

Not for Construction

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

SHEET NUMBER
A1.1



1 Attic Plan

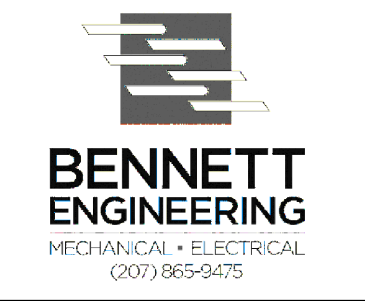
Scale: 1/4" = 1'-0"

PREPARED FOR:
STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero

Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

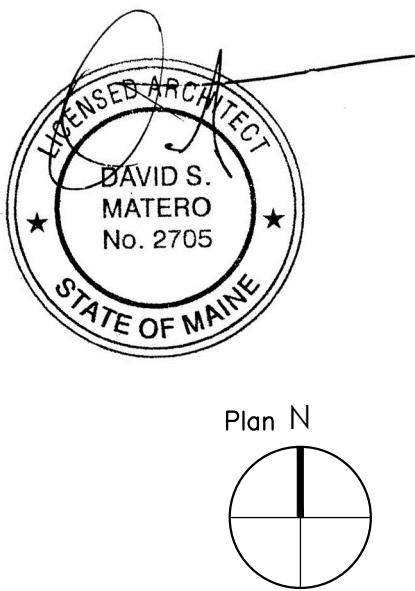
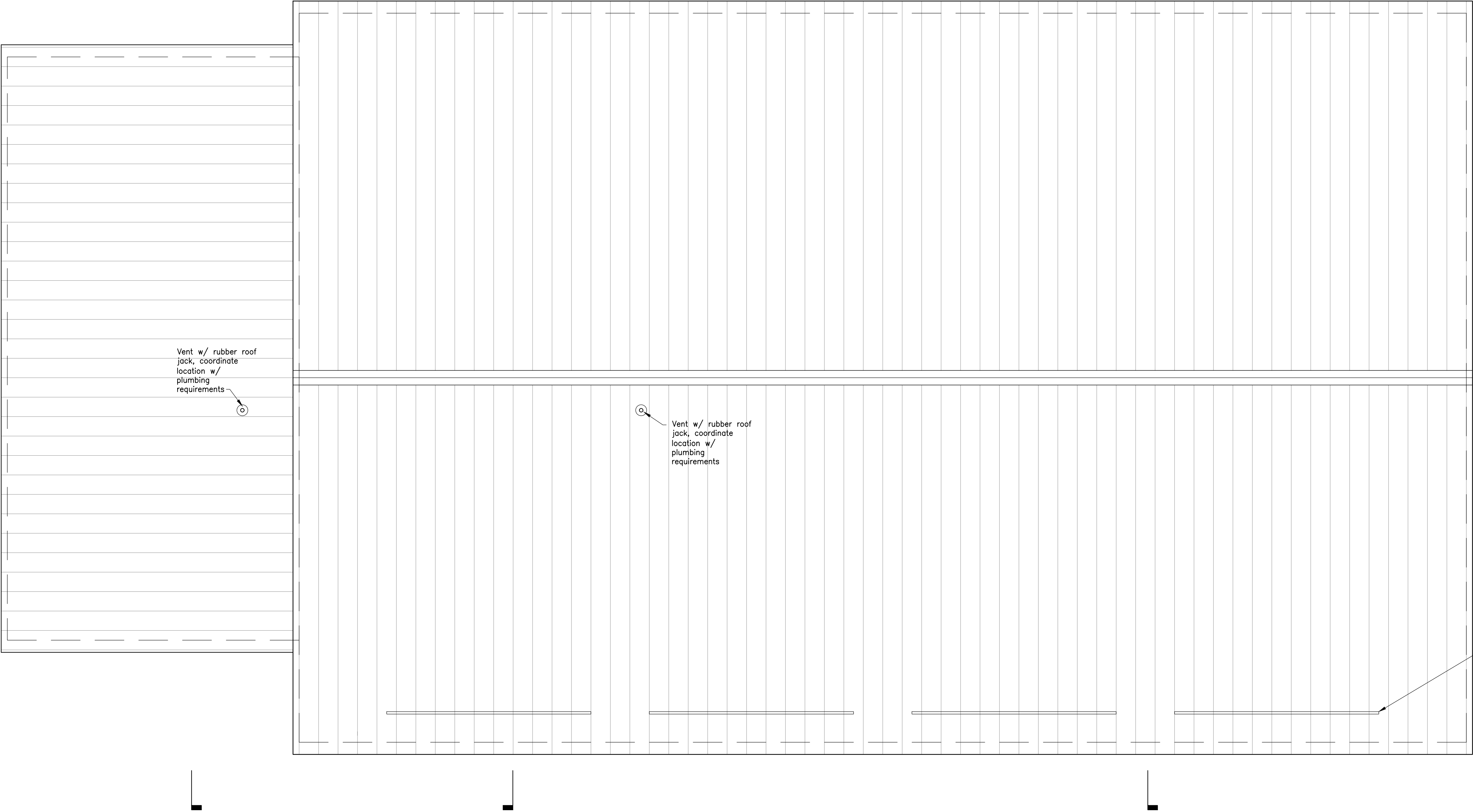


DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
BY	STS	DSM	ME	PE NUMBER	
DATE	03.31.21	03.31.21	03.31.21	DATE	

Attic Plan
Not for Construction
Scale : 1/4" = 1' - 0"

SHEET NUMBER

A1.2



1

Roof Plan

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

Roof Plan

Not for Construction

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

SHEET NUMBER

A1.3

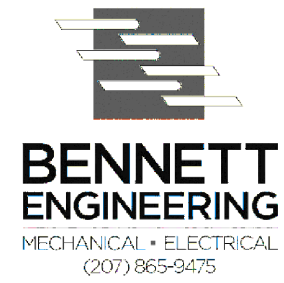
PREPARED FOR:

STATE OF MAINE DOT

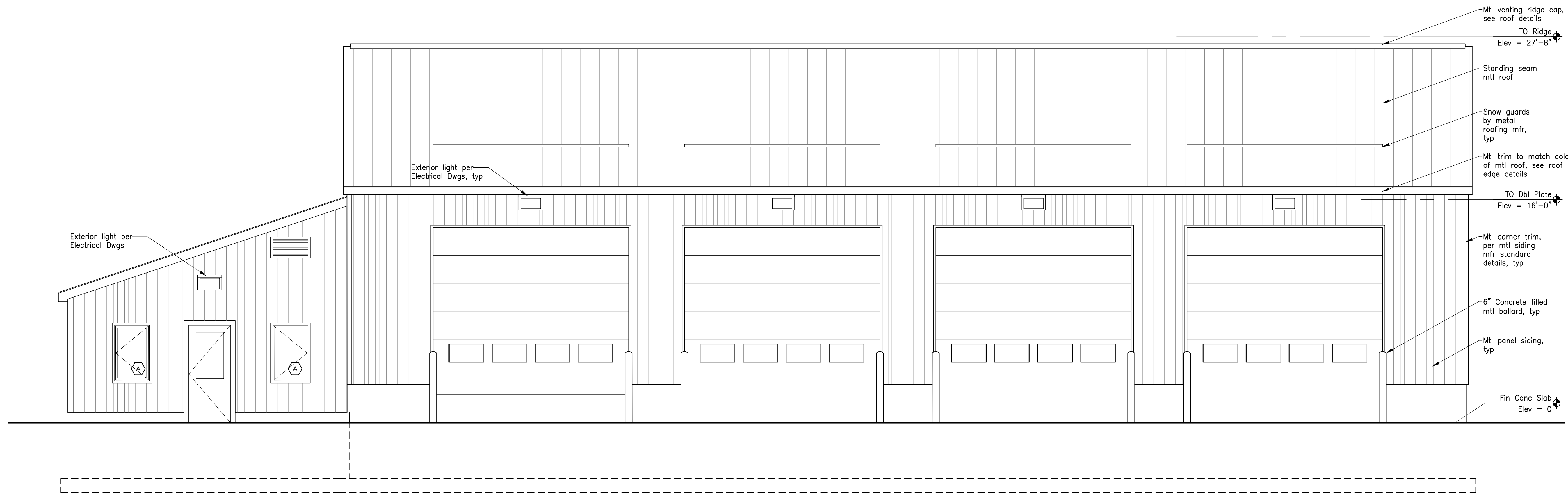
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

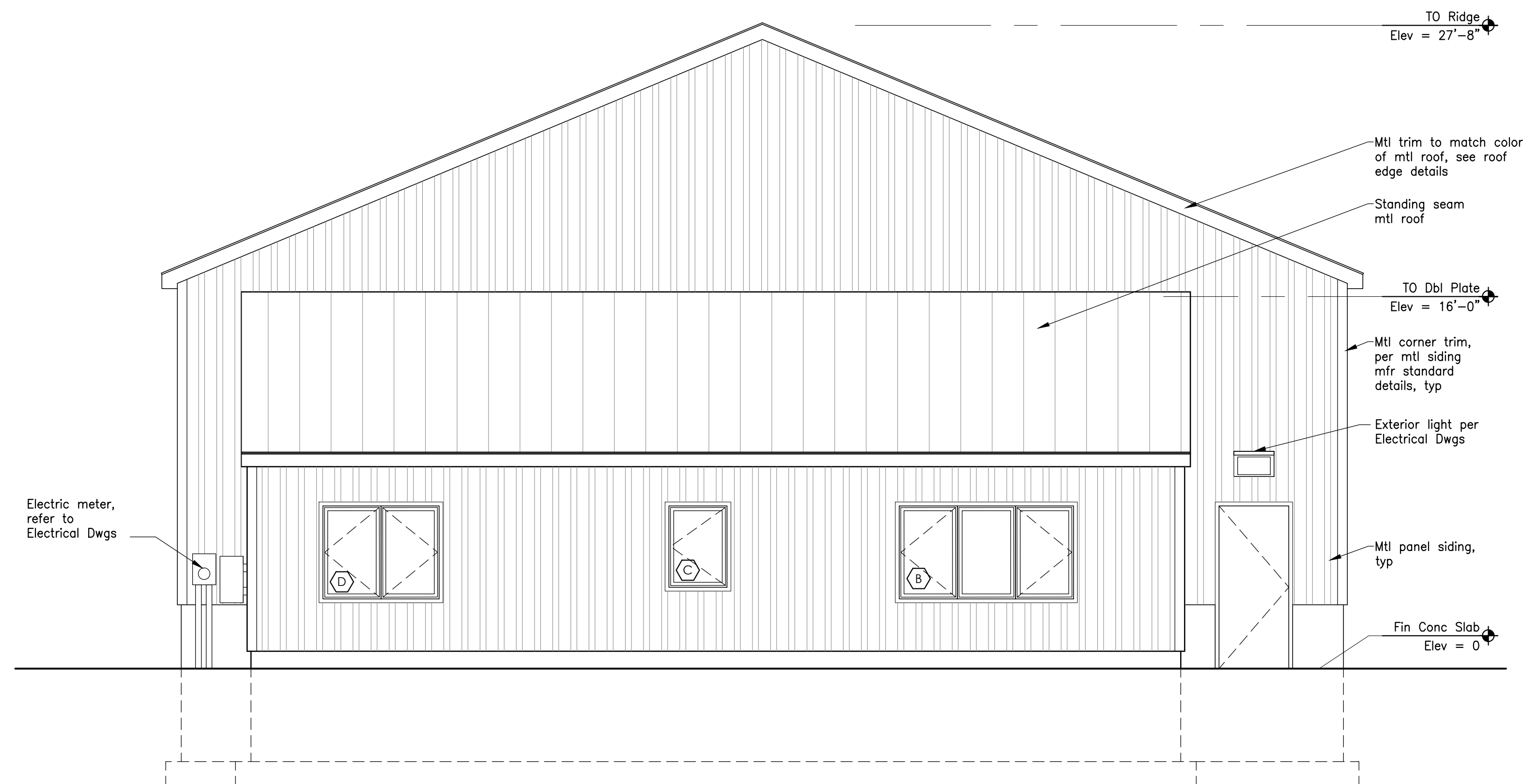


DESIGN-DETAILED CHECKED-REVIEWED REVISION 1 REVISION 2 REVISION 3 FIELD CHANGES	BY	DATE		
	STS	03.31.21		
	DSM	03.31.21	ME	
	PE NUMBER			
	03.31.21			
DATE				



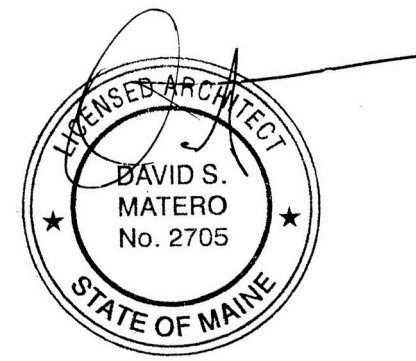
1 South Elevation

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

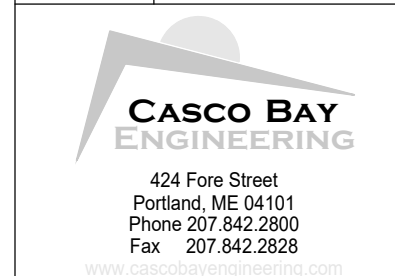


2 West Elevation

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



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

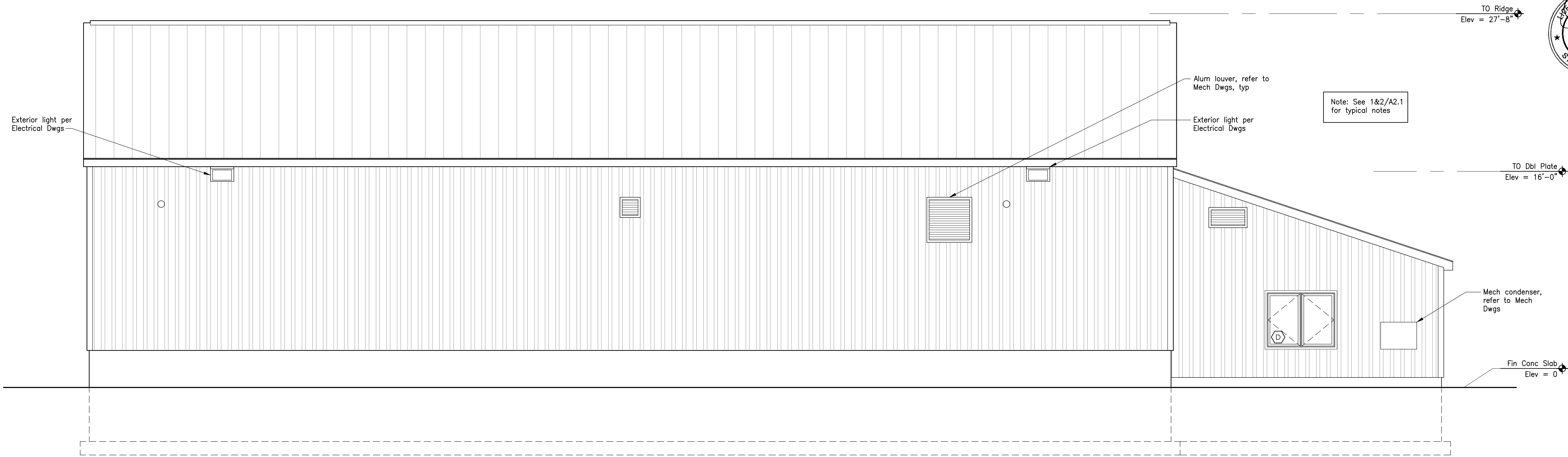


DATE	ME	PE NUMBER
03.31.21	03.31.21	03.31.21
BY	STS	DSM
DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1
		REVISION 2
		REVISION 3
		FIELD CHANGES

Building Elevations
Not for Construction
Scale : 1/8" = 1' - 0"

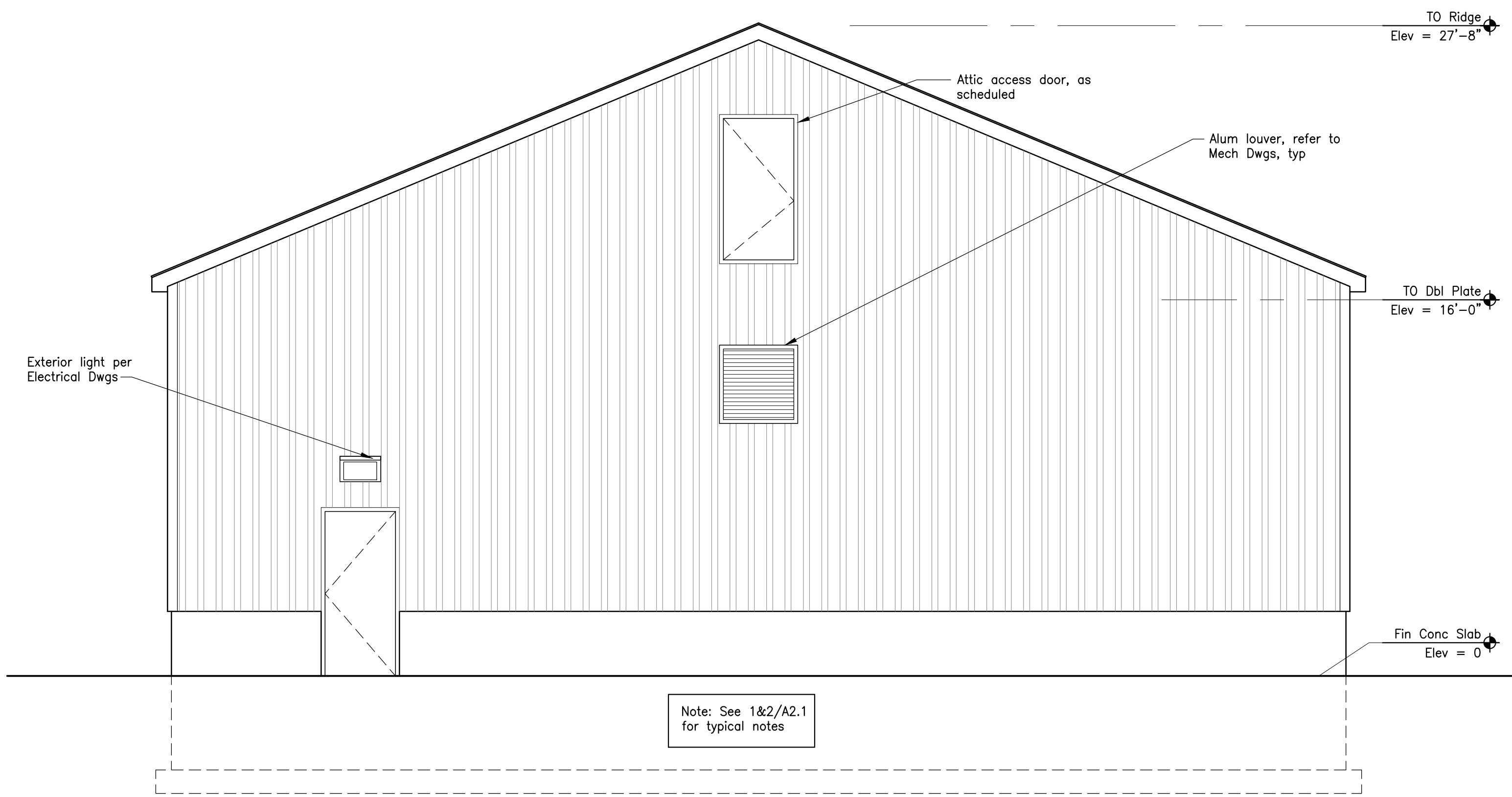
SHEET NUMBER

A2.1



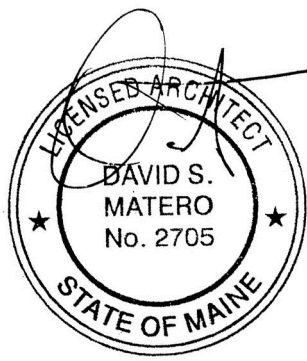
3 South Elevation

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



4 East Elevation

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



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com



DATE	ME	PE NUMBER
03.31.21	03.31.21	03.31.21
BY	STS	DSM
DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1
		REVISION 2
		REVISION 3
		FIELD CHANGES

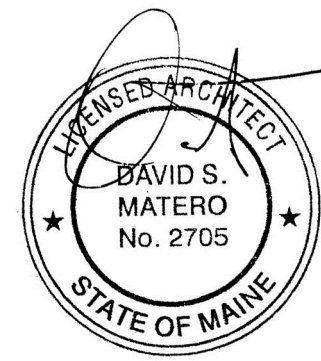
Building Elevations

Not for Construction

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

SHEET NUMBER

A2.2



TO Ridge
Elev = 27'-8"

Typical Garage Roof Assembly
Standing seam metal roof
High heat self adhering underlayment
5/8" Sheathing
Wd trusses @ 24" oc
Blown-in insulation on the flat to R-40 min
Zip sheathing w/ taped seams (facing interior) attached directly to underside of trusses
2x4 Strapping
5/8" Gyp bd finished clg, pntd

2x4 Guard, 42" high w/
max 21" dia opening
3/4" plywood walkway
for attic access

TO Dbl Plate
Elev = 16'-0"

Typical Metal Wall Assembly @ Garage
Metal wall panel, as specified
Zip-R12 sheathing w/ taped seams
2x6 Wd studs @ 24" oc (advanced framing)
Fill stud cavity w/ Batt insulation
1/2" Interior CDX plywood (structural diaphragm), pntd
Plywood seams to be caulked

Typical Drip Edge
4" Deep minimum crushed stone
Extend minimum 36" from foundation
Cover bottom of strip with continuous filter fabric
Slope away from building @ 5% slope

Typical Garage Slab Assembly
8" Reinforced concrete slab (sloped to trench drain)
15 Mil vapor retarder w/ taped seams and sealed to foundation wall
2" Rigid insulation R-10 minimum
6" Crushed stone drainage layer
Compacted subgrade

Typical Conc Stem Wall
Reinforced conc wall
3 1/2" Rigid insulation
PT 2x4 strapping
1/2" CDX plywood, pntd, set 1/2" above slab, caulked to slab

Typical Foundation
Dampproofing
Reinforced conc wall
2" Continuous rigid insulation (inside face of wall)

Garage

Trench drain connected to
Oil Separator, refer
to Plumbing Dwgs

TO Conc Wall

Fin Conc Slab
Elev = 0

Scale: 1/2" = 1'-0"

1 Building Section

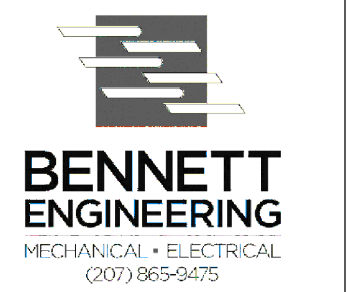
PREPARED FOR

STATE OF MAINE DOT

Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com



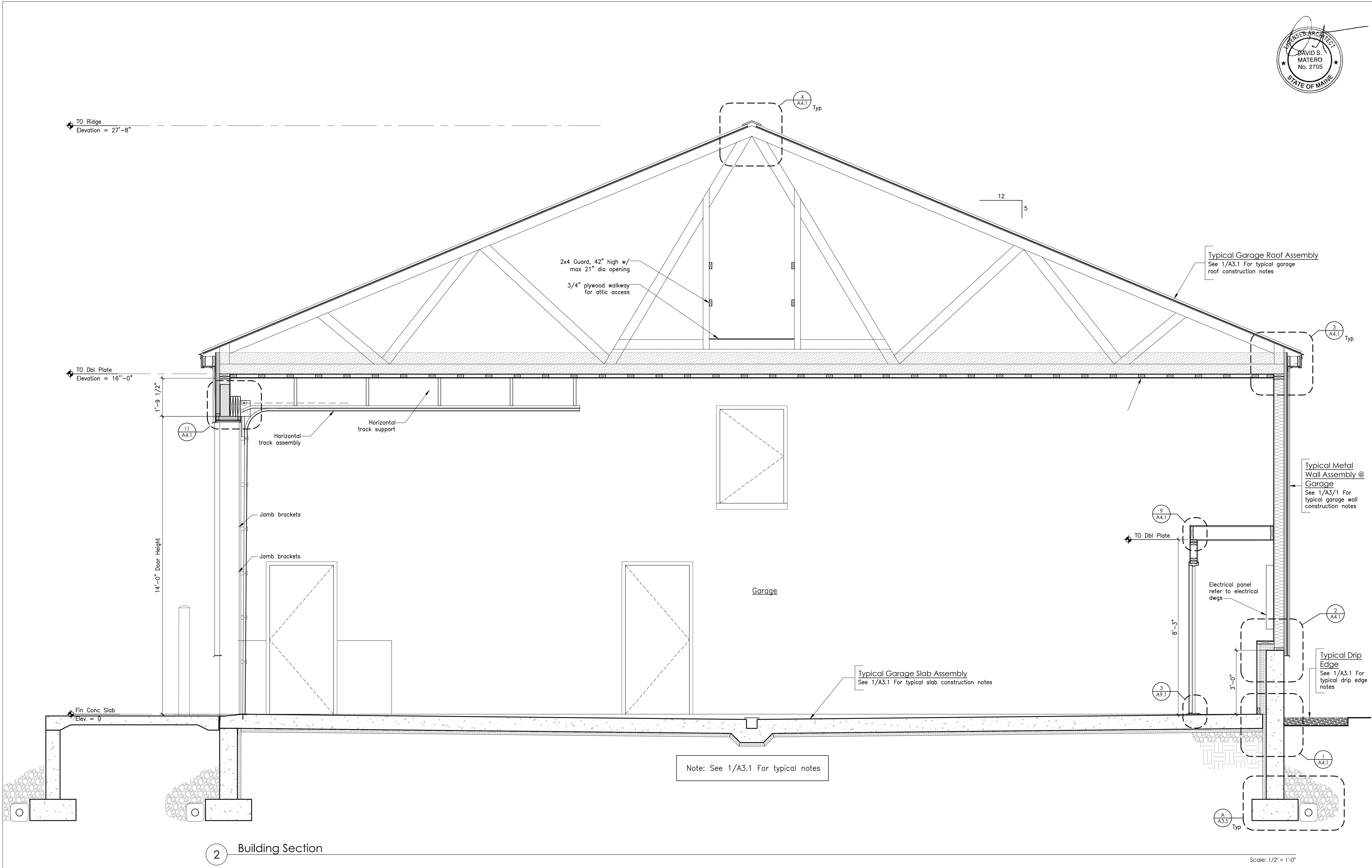
DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
03.31.21	STS						
03.31.21	DSM						
ME							
PE NUMBER							
03.31.21							
DATE							

Building Sections

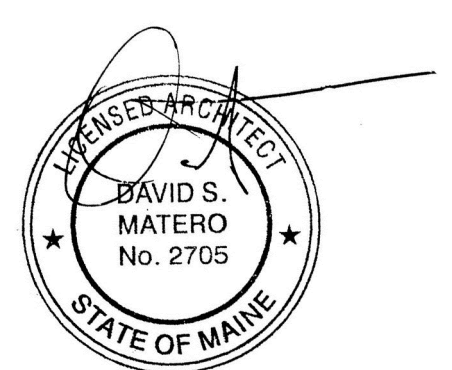
Not for Construction
Scale: 1/2" = 1'-0"

SHEET NUMBER

A3.1



2 Building Section



STATE OF MAINE DOT

Fort Fairfield Truck Storage and Crew Quarters

86 S Caribou Rd, Fort Fairfield, Maine

WIN 27323.00

CASCO BAY
ENGINEERING

424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2828
www.casco-bay.com

David Matero
Architecture

49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

BENNETT
ENGINEERING

MECHANICAL • ELECTRICAL

(207) 985-9475

BY	DATE	DESIGN-DETAILED	CHECKED-REVIEWED	STS	DSM	ME	PE NUMBER
	03.31.21						
	03.31.21						
		REVISION 1					03.31.21
		REVISION 2					DATE
		REVISION 3					
		FIELD CHANGES					

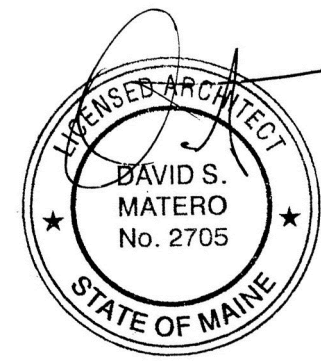
Building Sections

Not for Construction

Scale : 1/2" = 1' - 0"

SHEET NUMBER

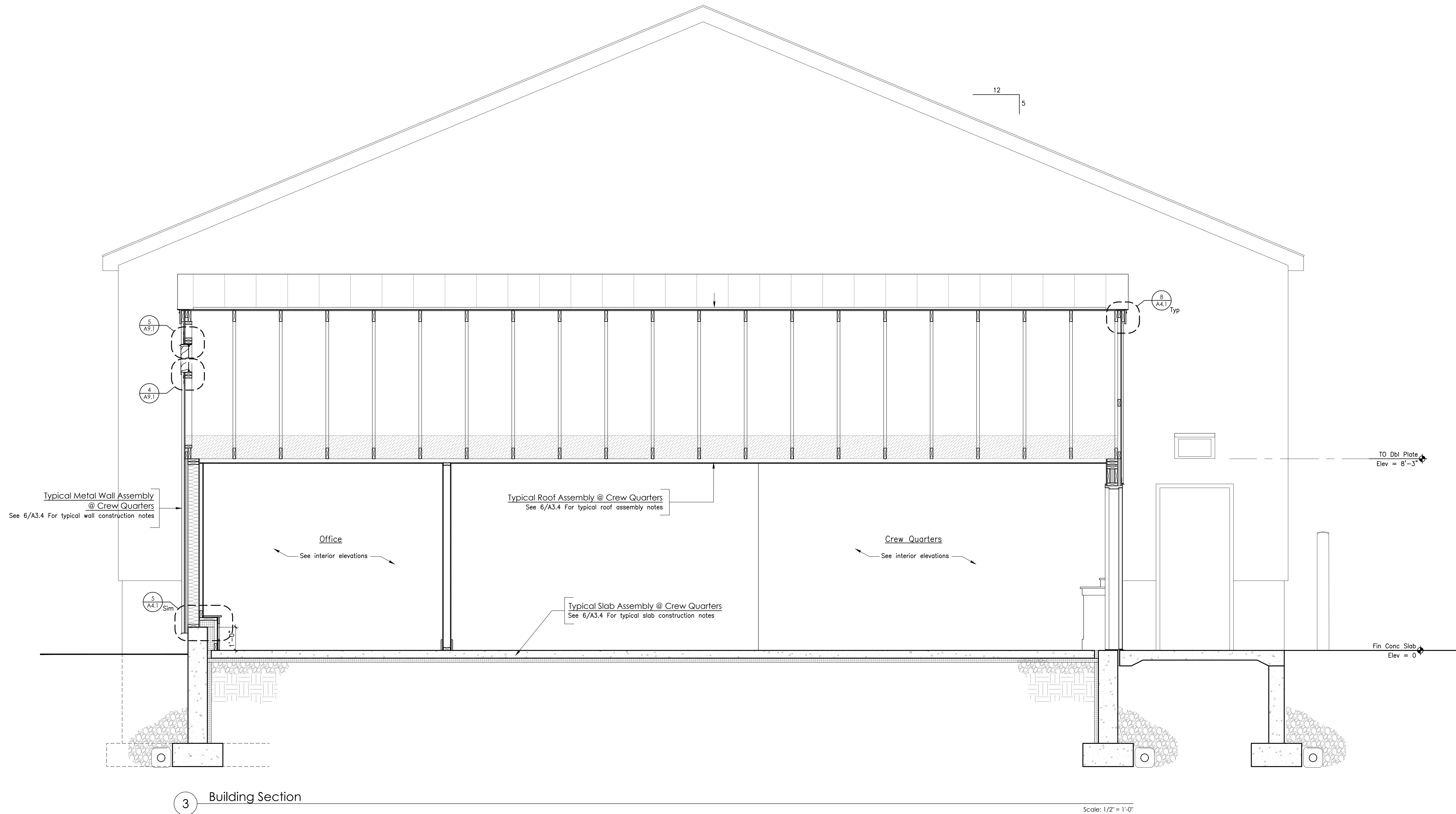
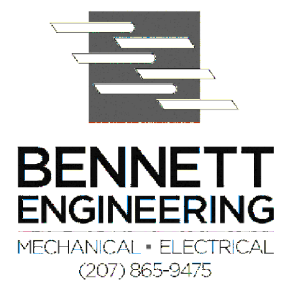
A3.2



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com



3 Building Section

Scale: 1/2" = 1'-0"

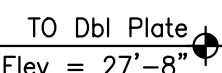
Building Sections

Not for Construction
Scale : 1/2" = 1' - 0"

SHEET NUMBER

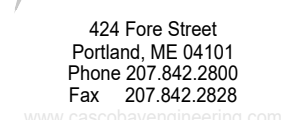
A3.3

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	ME	PE NUMBER
03.31.21	STS			03.31.21	
	DSM				
		REVISION 1			
		REVISION 2			
		REVISION 3			
		FIELD CHANGES			



STATE OF MAINE DOT

WIN 27323.00



49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmafero.com



	BY	DATE
DESIGN-DETAILED	STS	03.31.21
CHECKED-REVIEWED	DSM	03.31.21
REVISION 1		
REVISION 2		
REVISION 3		
FIELD CHANGES		

Not for Construction

Scale: $1/2" = 1' - 0"$

A3.4



Scale: 1/2" = 1'-0"

5 Building Section / Draftstopping

Scale: 1/2" = 1'-0"

4 Building Section - Galbe End
Scale: 1/2" = 1'-0"

Scale: 1/2" = 1'-0"



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com



DATE	BY	DESIGN-DETAILED	ME	PE NUMBER
03.31.21	STS	CHECKED-REVIEWED	DSM	
03.31.21		REVISION 1		03.31.21
		REVISION 2		DATE
		REVISION 3		
		FIELD CHANGES		

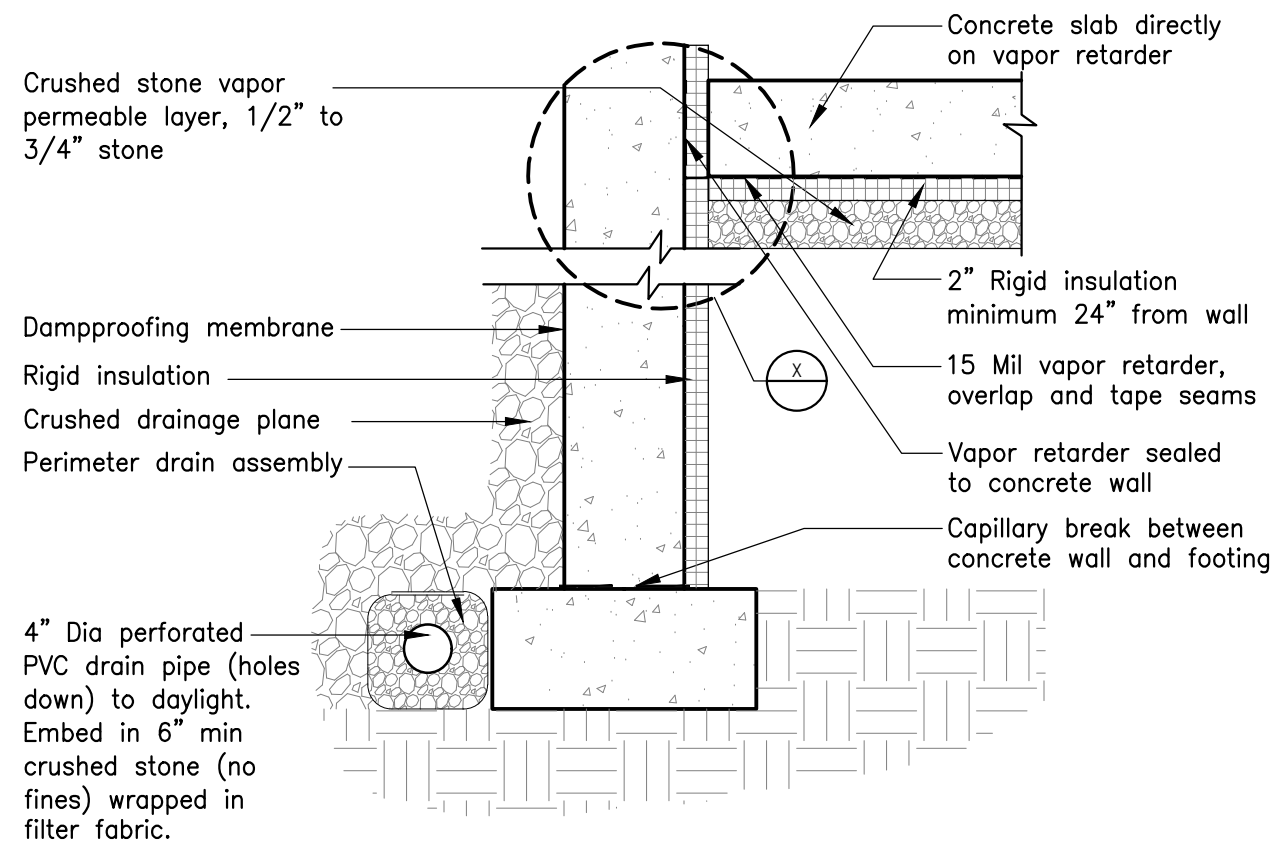
Building Sections

Not for Construction

Scale : 1/2" = 1' - 0"

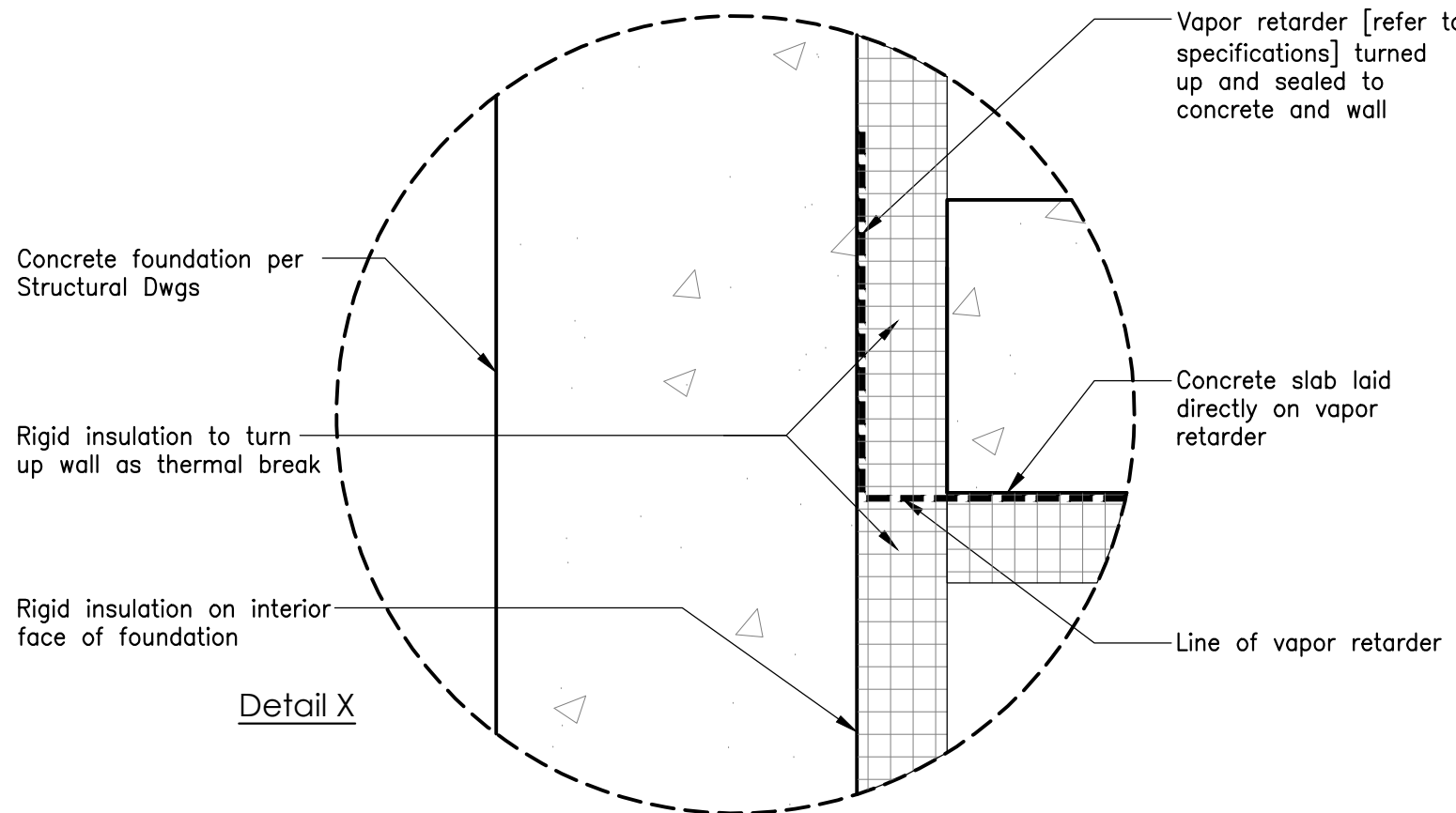
SHEET NUMBER

A3.5

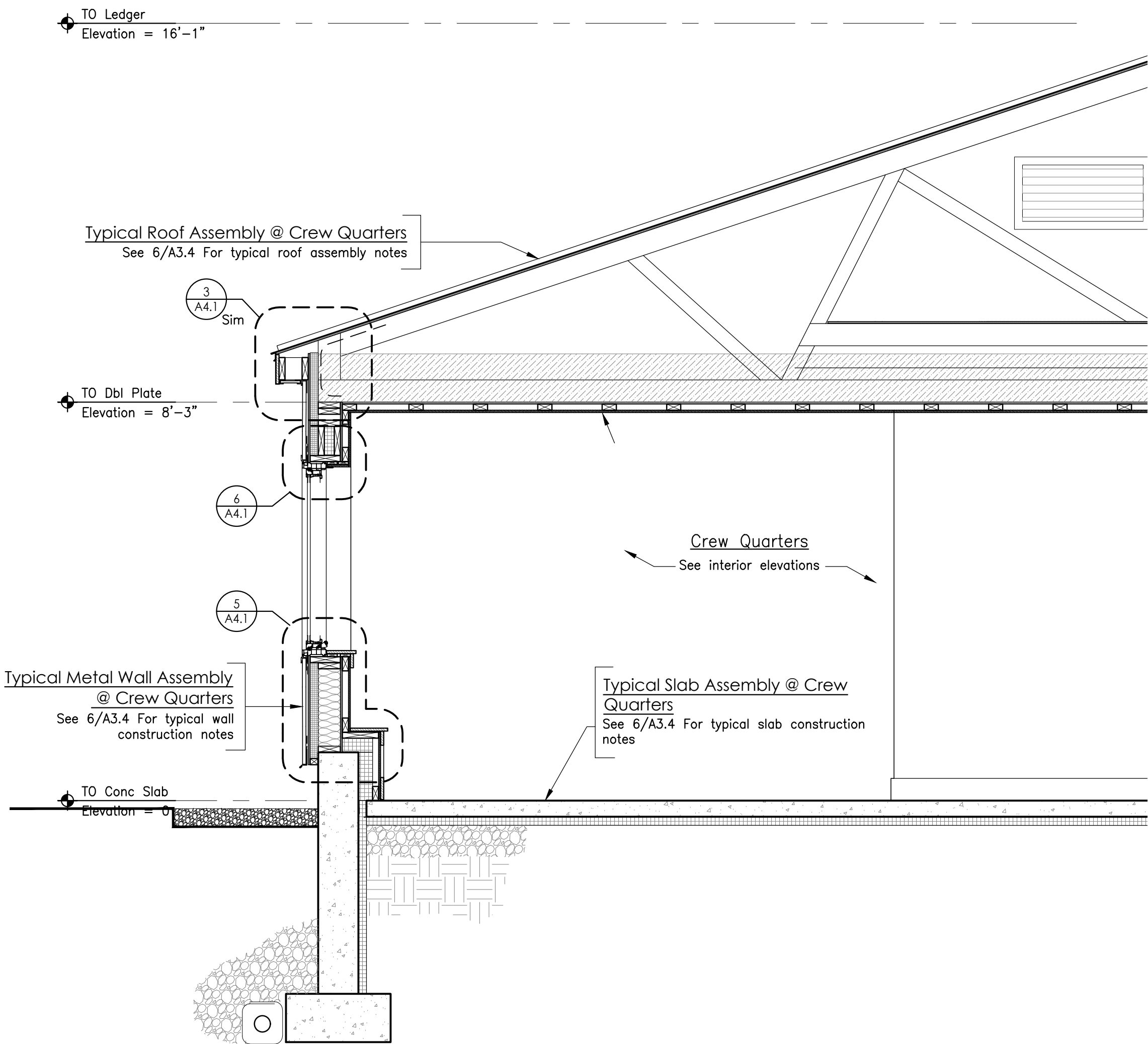


General Notes

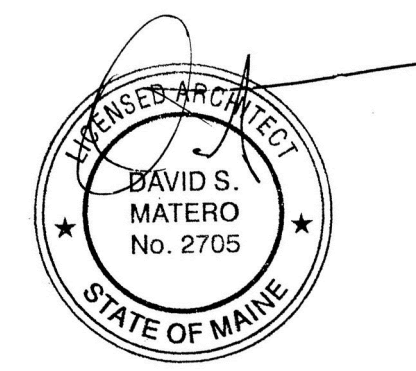
1. Provide minimum 15 mil Vapor retarder. Overlap and tape seams per manufacturer's instructions.
2. Concrete slab shall be poured directly on vapor retarder/barrier. Do not puncture vapor barrier.
3. Vapor retarder/barrier shall be turned up concrete wall and taped/sealed to wall
4. Refer to structural drawings for concrete and reinforcing bar information and specifications.



A Typ Foundation Detail @ Vapor Barrier / Retarder & Foundation Drain
Scale: NTS



7 Building Section - Crew Quarters @ Window
Scale: 1/2" = 1'-0"



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00

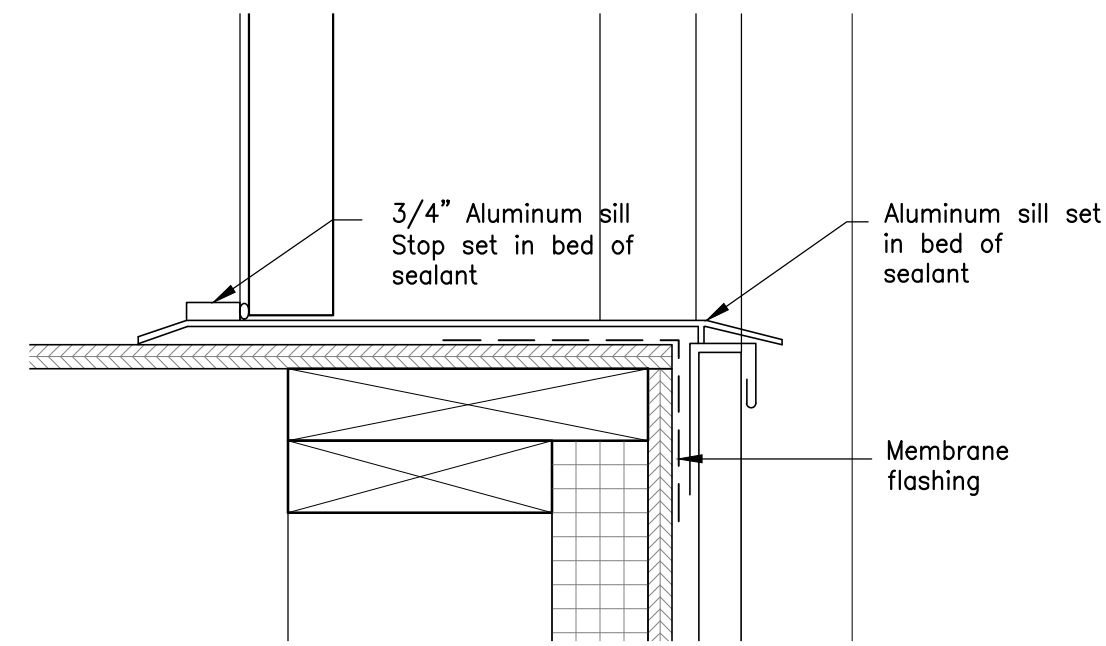
CASCO BAY
ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2820
www.cascobayengineering.com

David Matero
Architecture
49 Centre St.
Bath, Maine 04530
207.389.4278
info@davidmatero.com

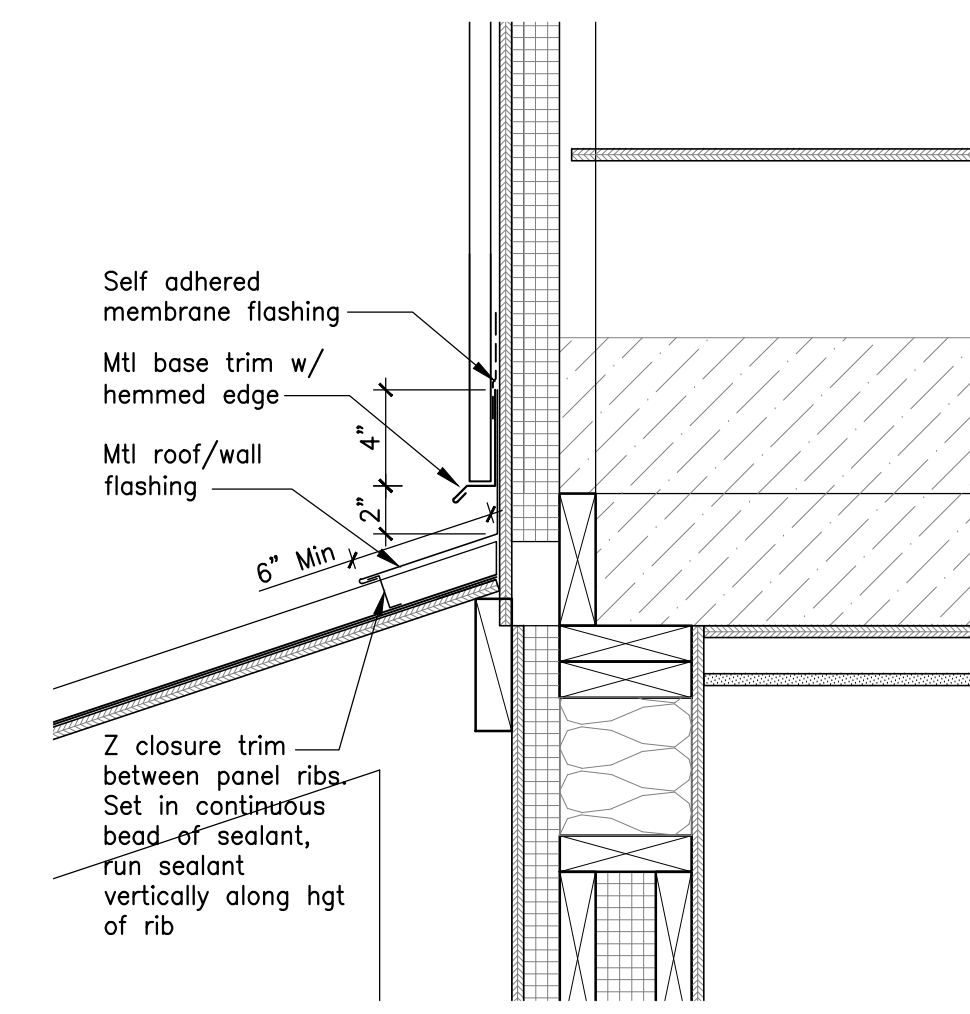
BENNETT
ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
03.31.21	STS						
03.31.21	DSM						
	ME						
	PE NUMBER						
	03.31.21						
	DATE						

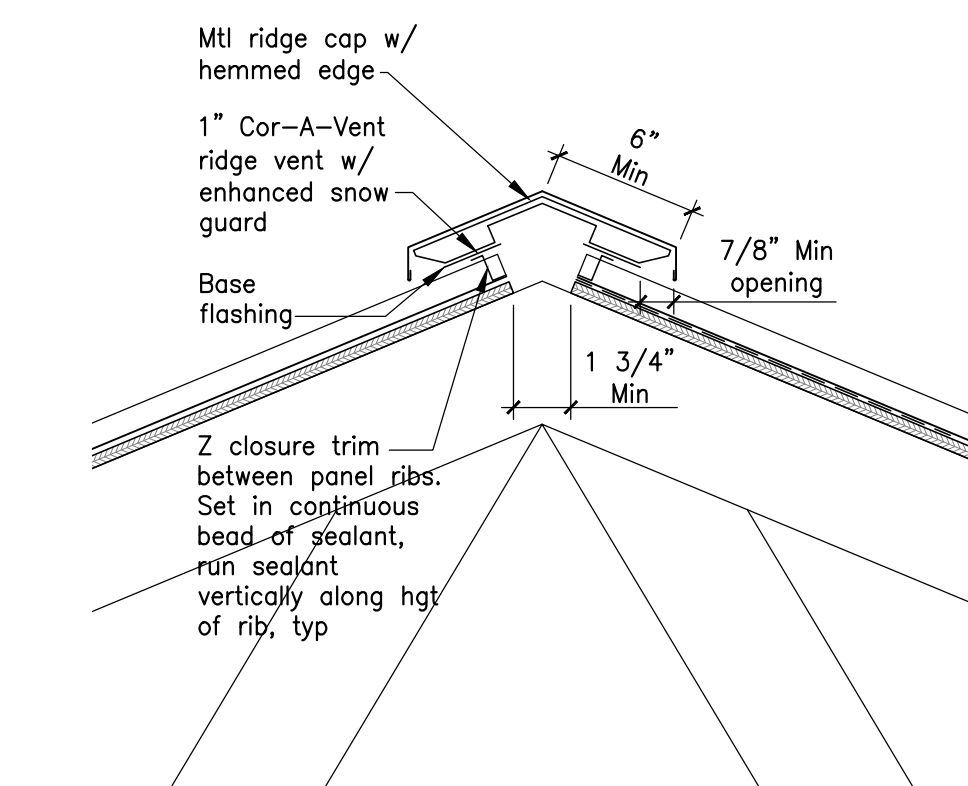
Details
Not for Construction
Scale: 1/8" = 1'-0"
SHEET NUMBER
A4.1



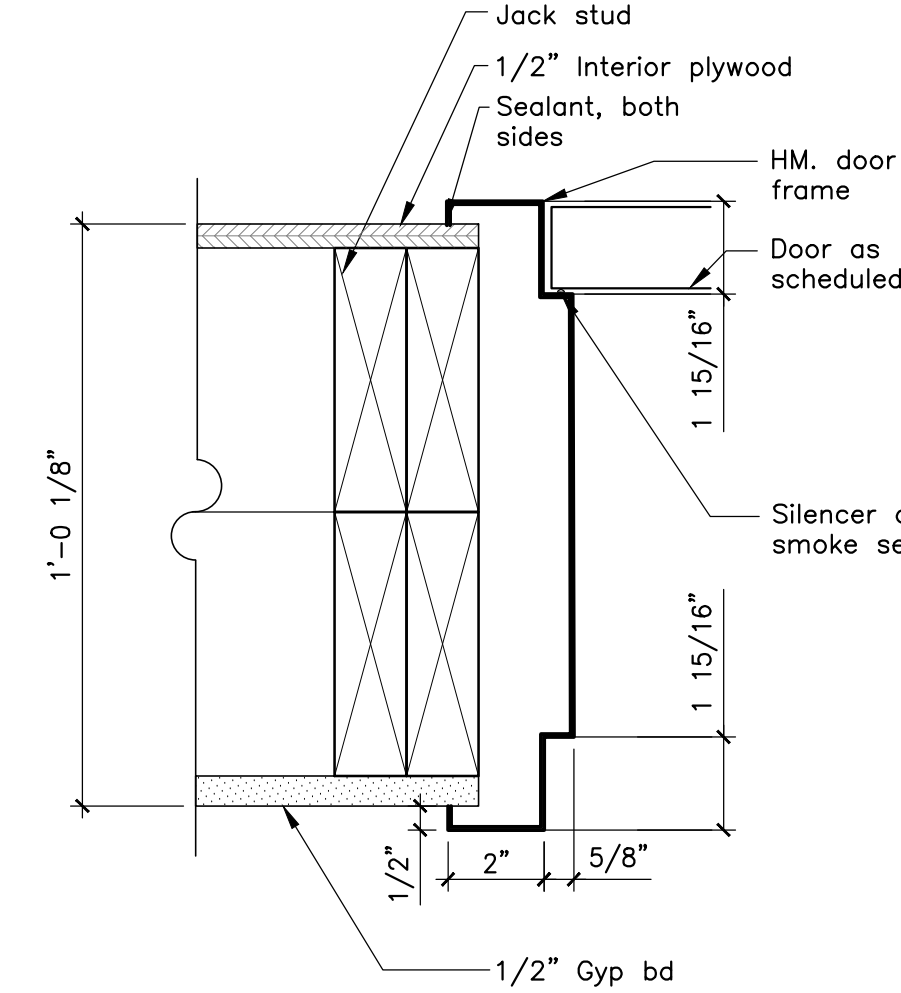
11 Sill Detail
Scale: 3" = 1'-0"



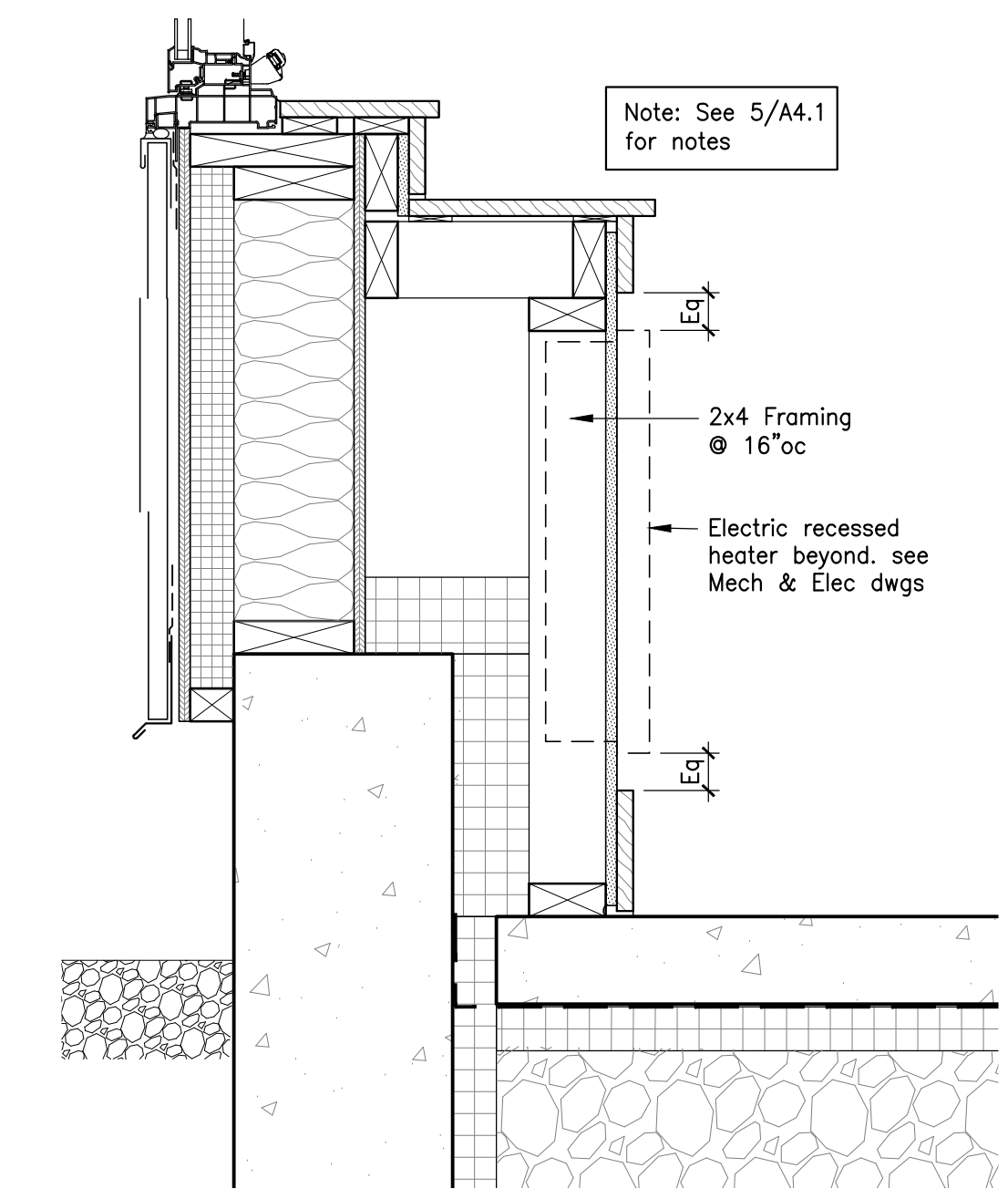
7 Det @ Roof Transition
Scale: 1 1/2" = 1'-0"



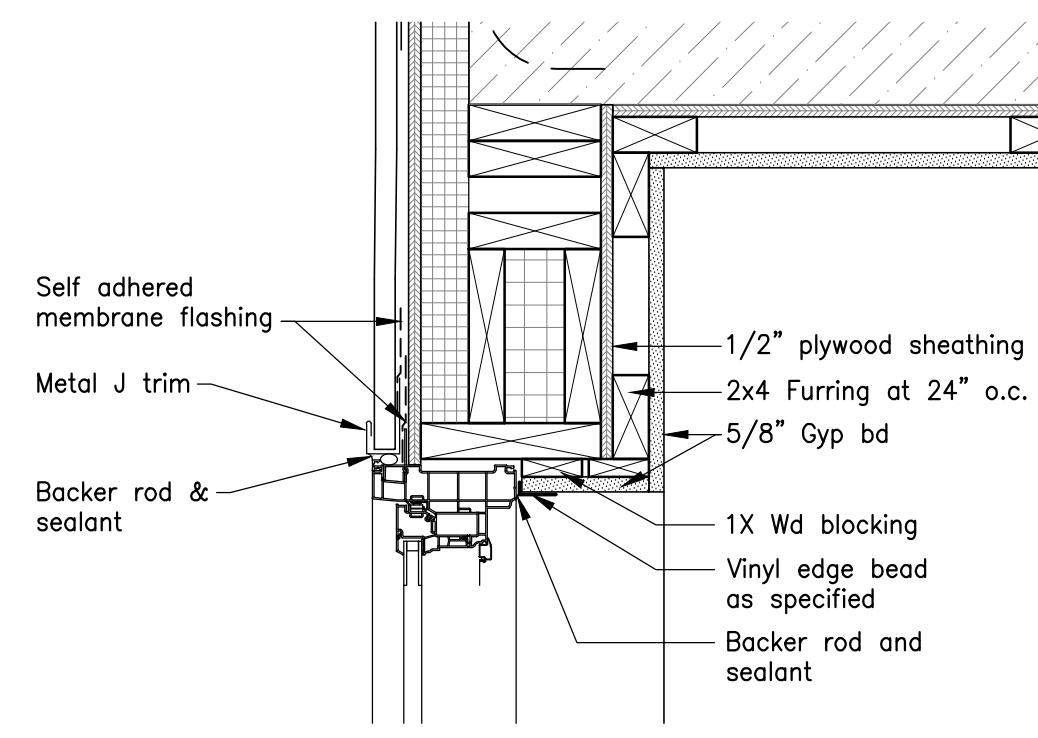
4 Typ Ridge Vent
Scale: 1 1/2" = 1'-0"



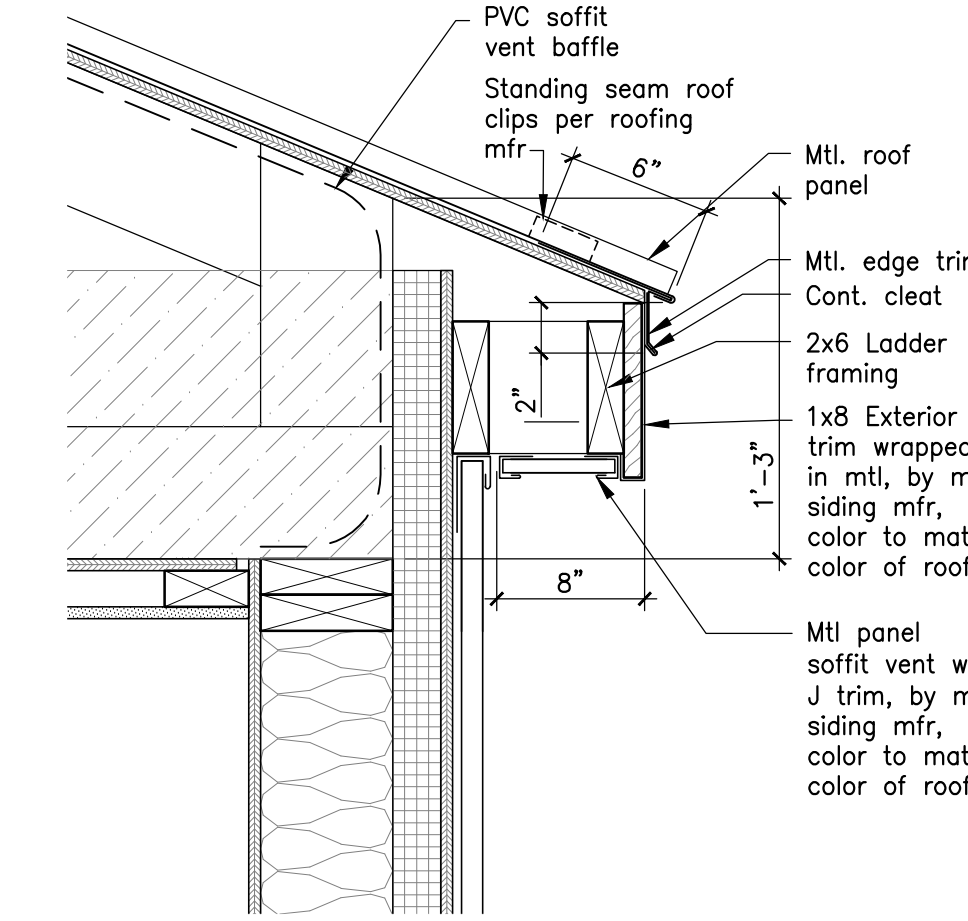
12 HM Jamb Detail (Head Sim)
Scale: 3" = 1'-0"



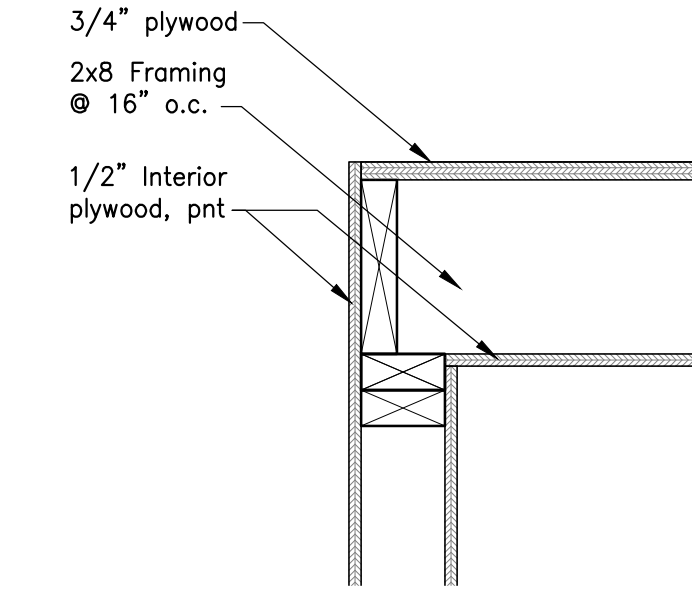
10 Wall Detail @ Recessed Heater
Scale: 1 1/2" = 1'-0"



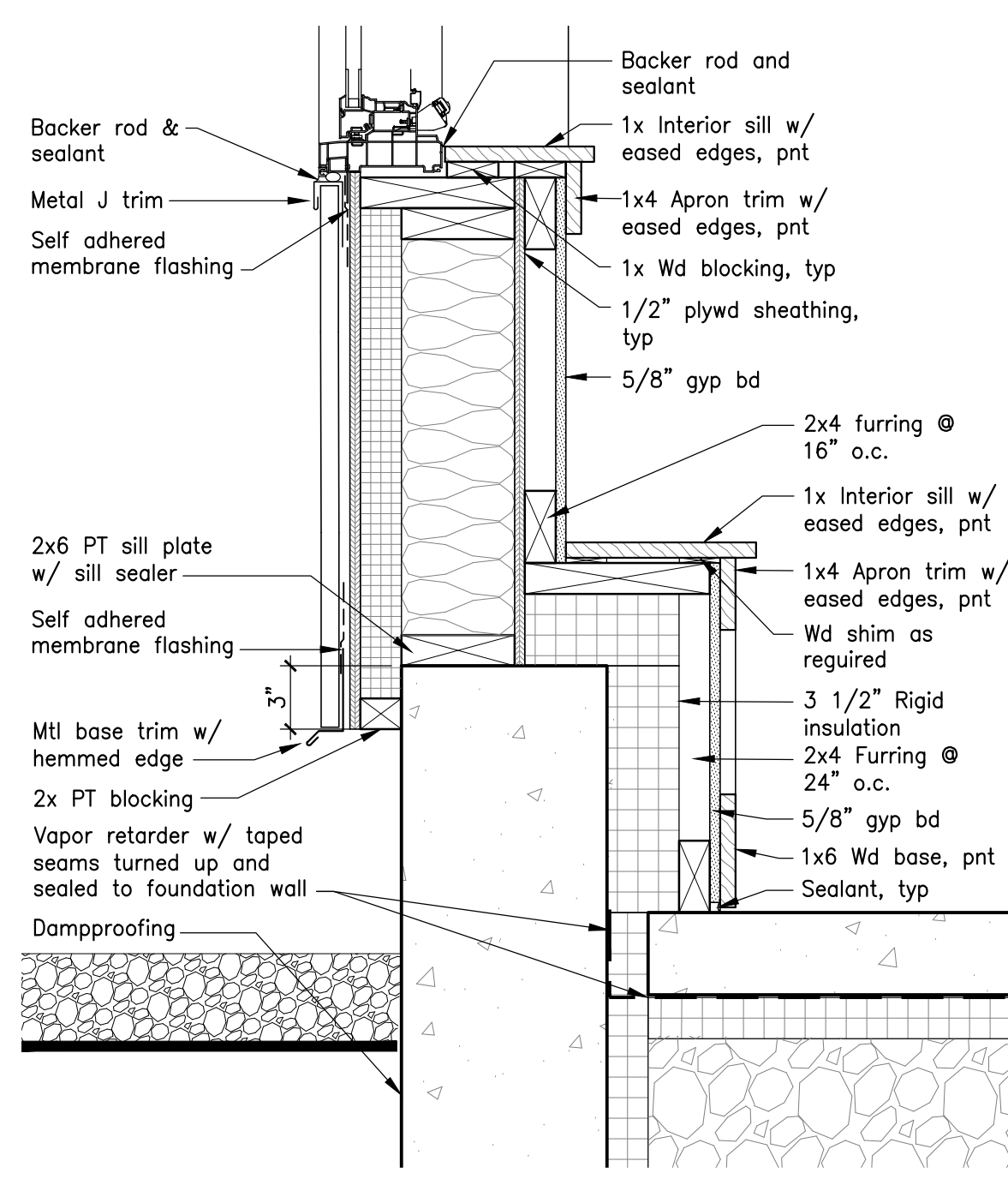
6 Typ Window Head
Scale: 1 1/2" = 1'-0"



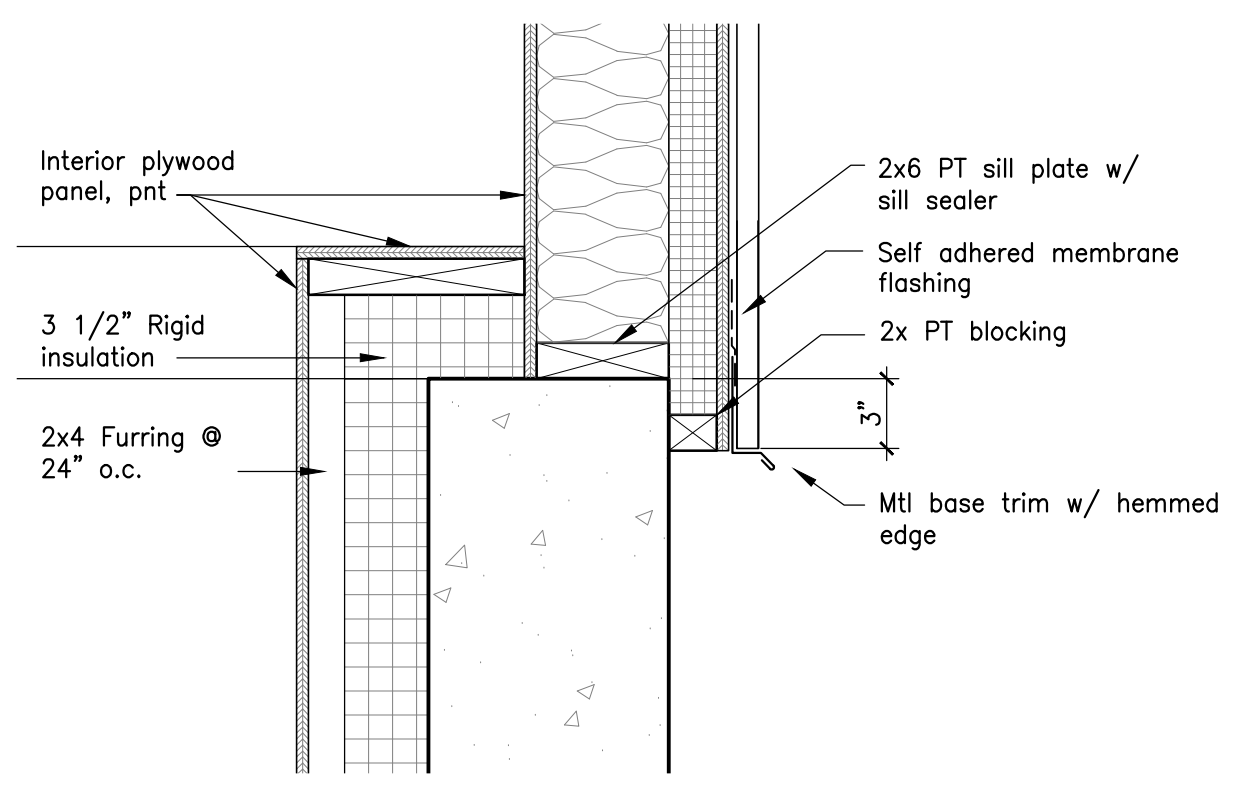
3 Typ Roof Edge
Scale: 1 1/2" = 1'-0"



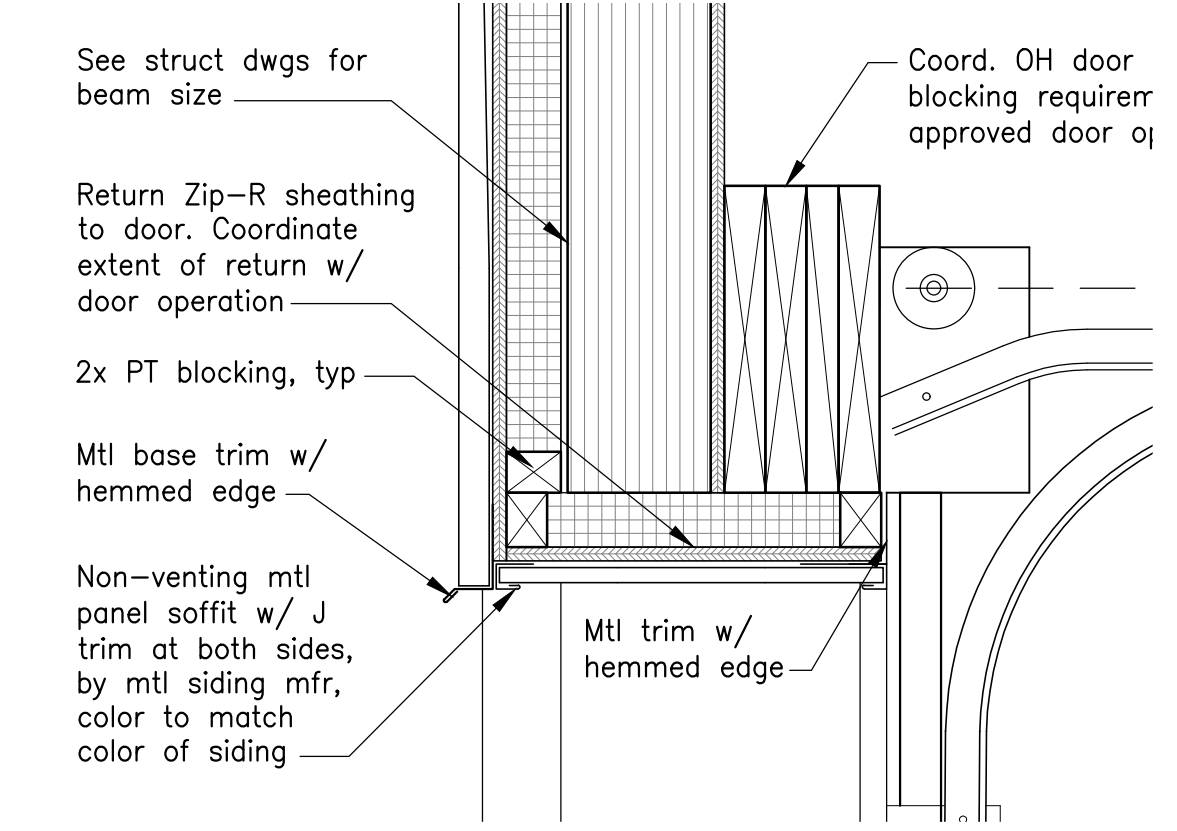
9 Electrical Room Ceiling
Scale: 1 1/2" = 1'-0"



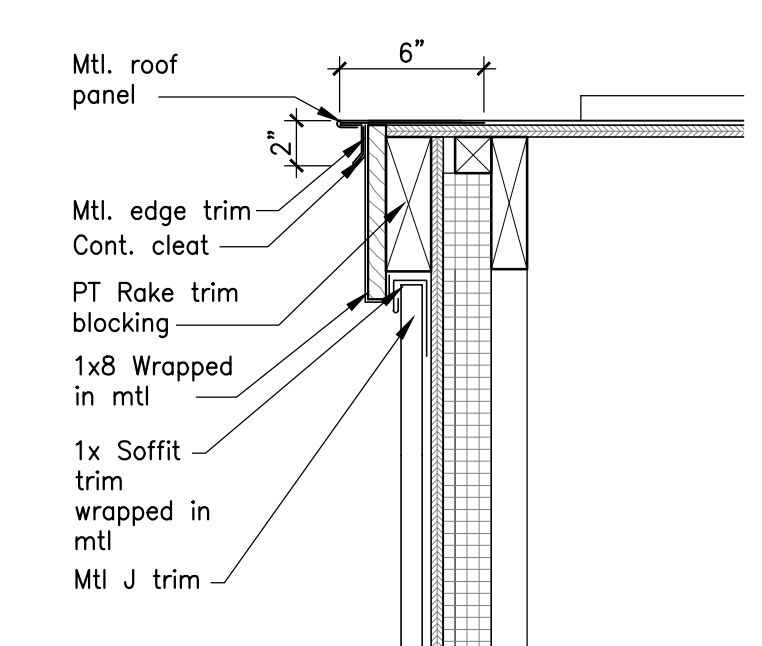
5 Det @ Exterior Wall/ Typ Window Sill
Scale: 1 1/2" = 1'-0"



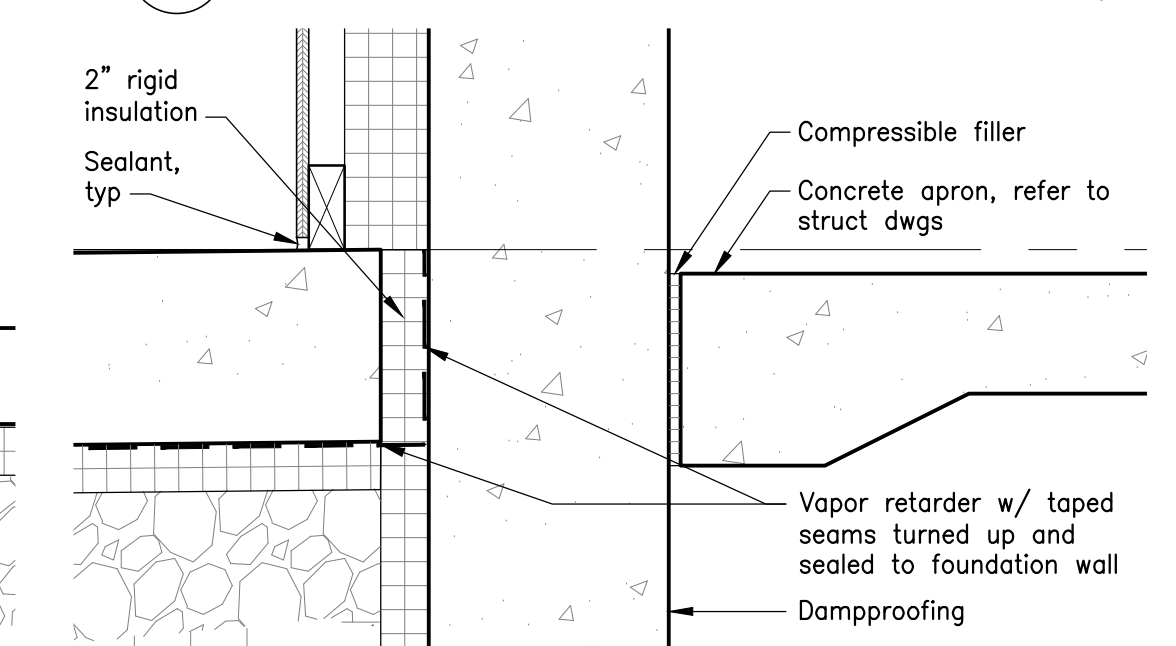
2 Det @ Top of Conc Wall
Scale: 1 1/2" = 1'-0"



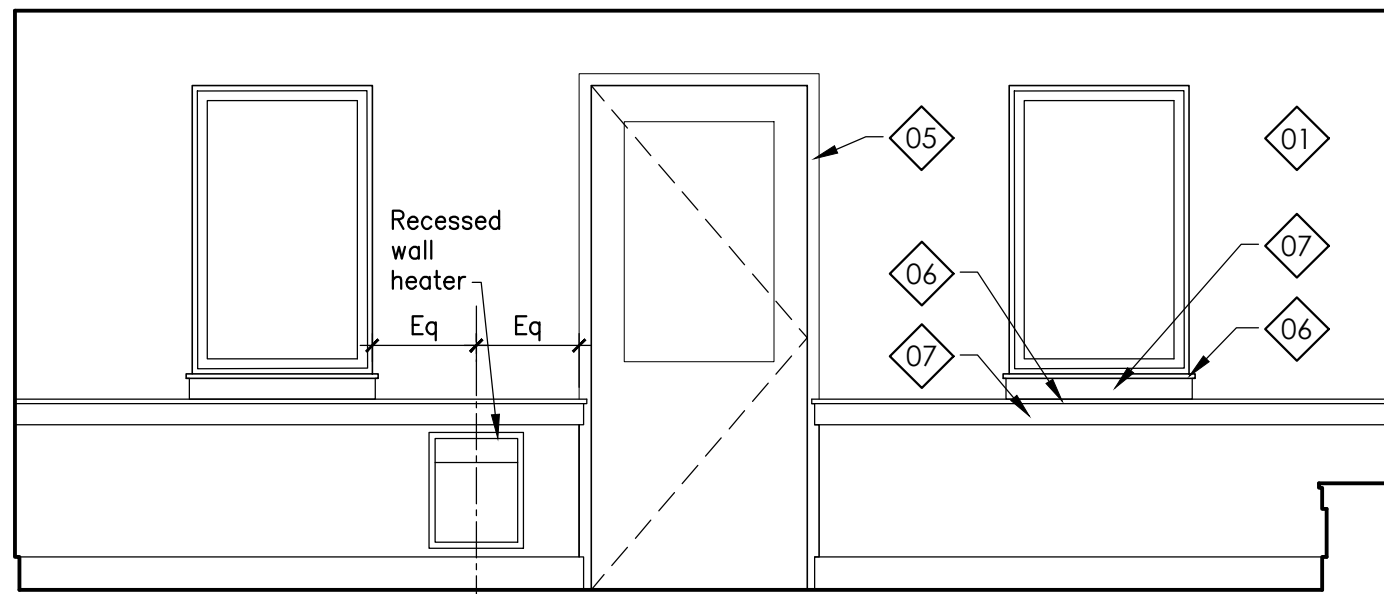
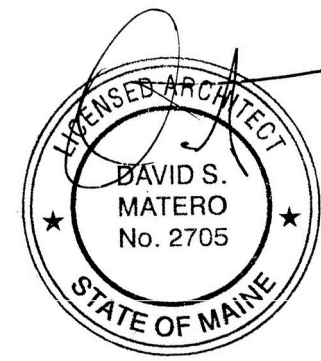
11 OH Door Head Det
Scale: 3" = 1'-0"



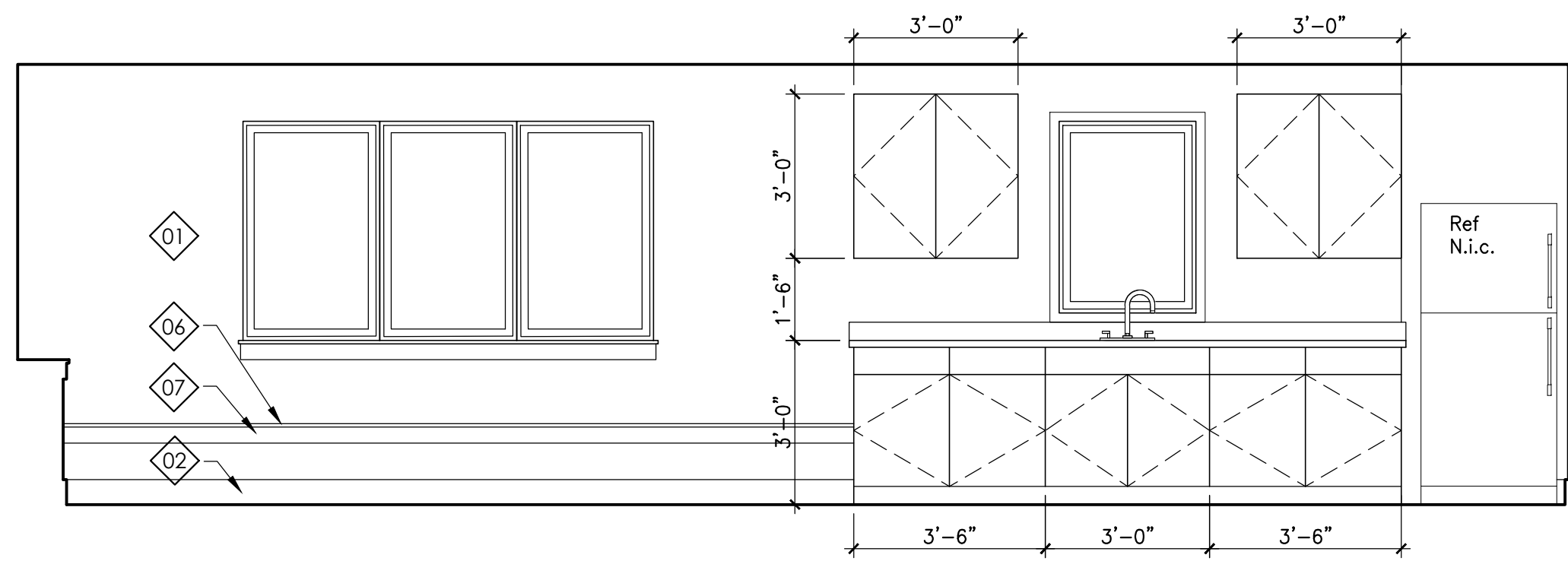
8 Typ Roof Edge @ Rake
Scale: 1 1/2" = 1'-0"



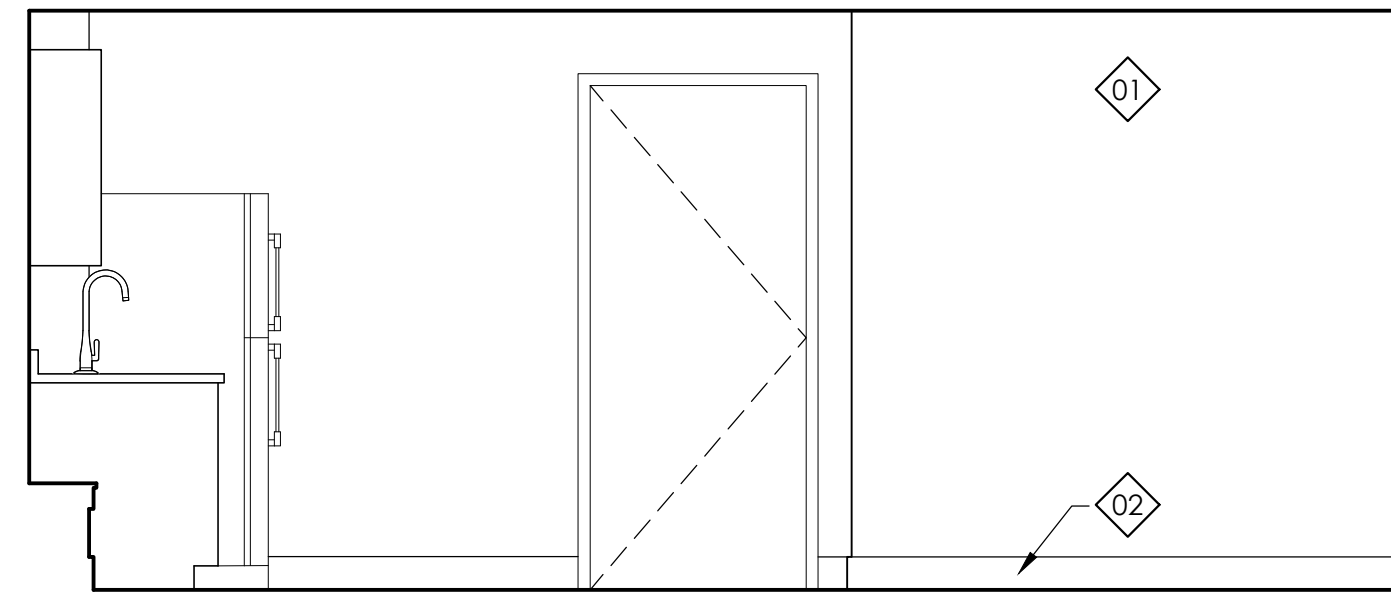
1 Det @ Conc Slab
Scale: 1 1/2" = 1'-0"



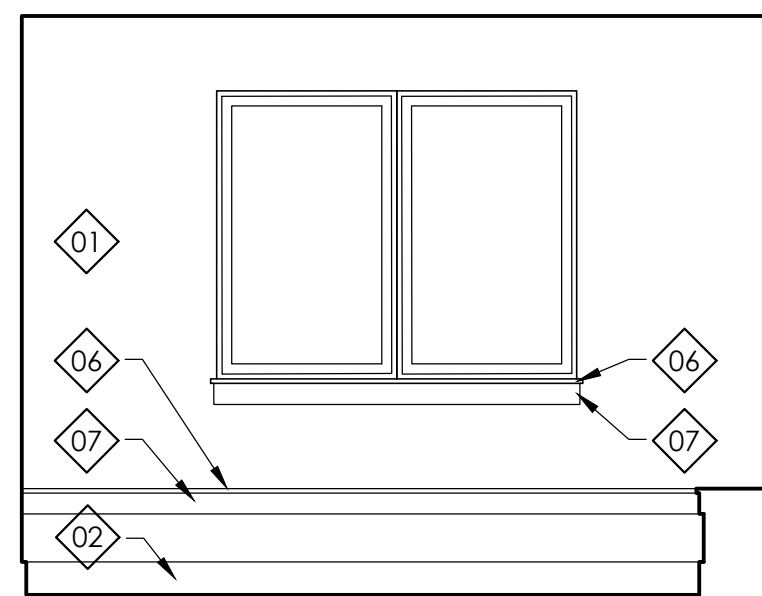
3 Crew Quarters
Scale: 3/8" = 1'-0"



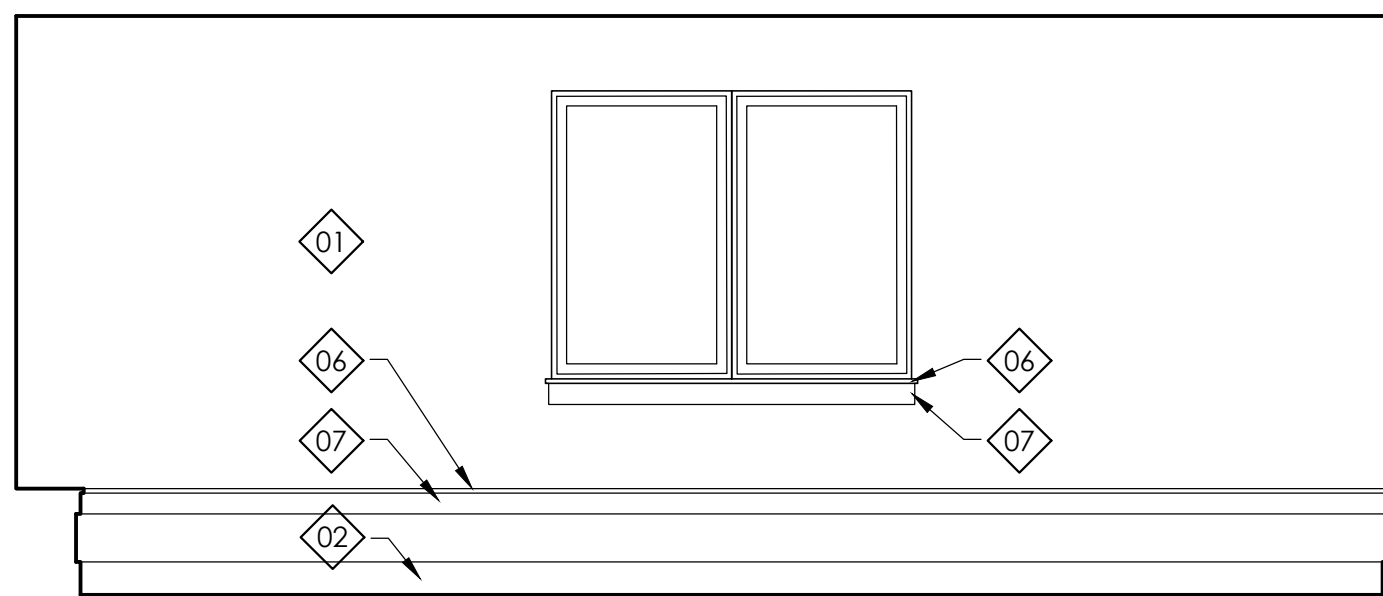
2 Crew Quarters
Scale: 3/8" = 1'-0"



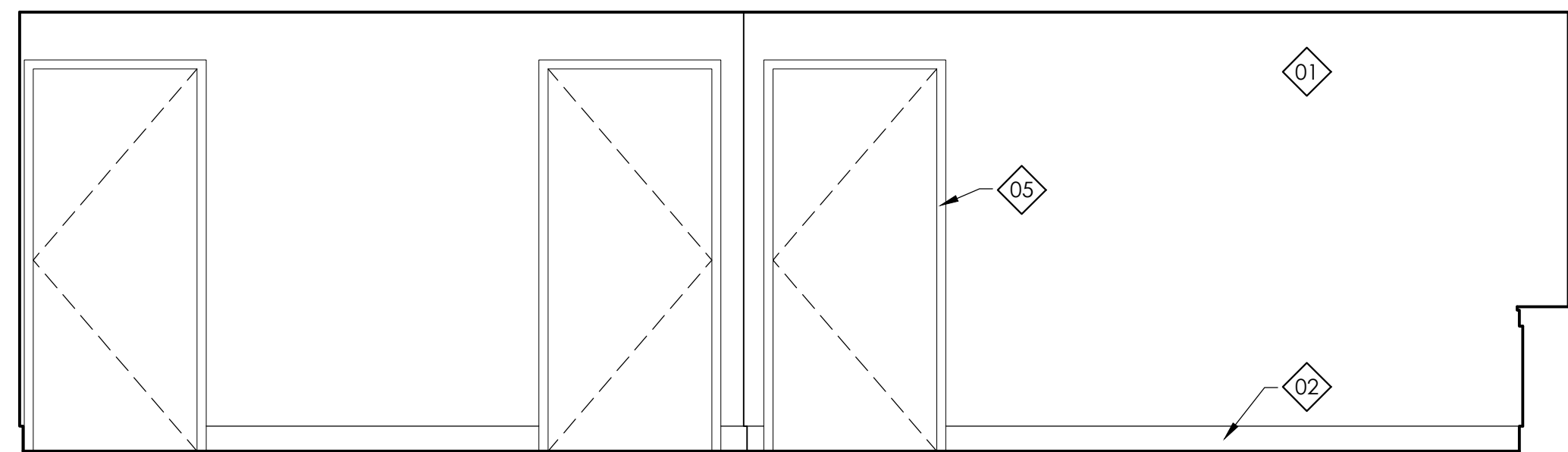
1 Crew Quarters
Scale: 3/8" = 1'-0"



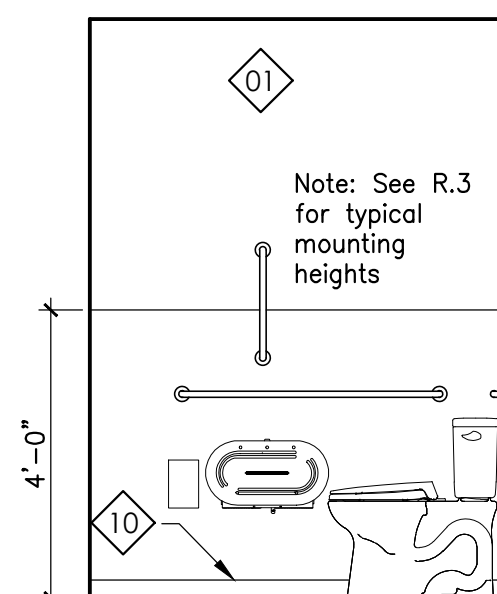
6 Office
Scale: 3/8" = 1'-0"



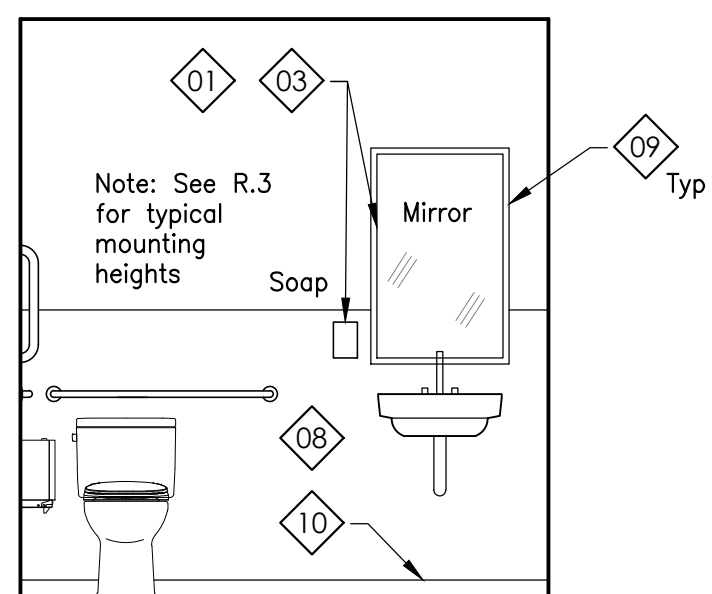
5 Office
Scale: 3/8" = 1'-0"



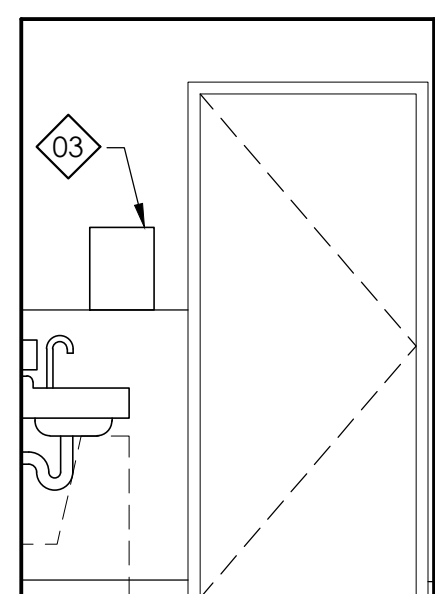
4 Crew Quarters
Scale: 3/8" = 1'-0"



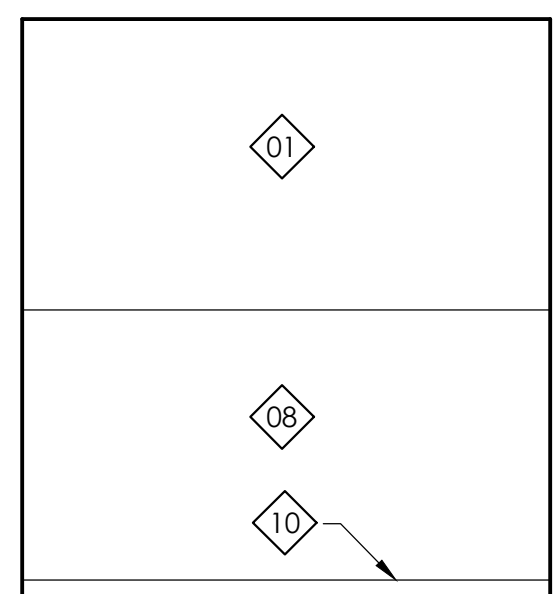
12 Toilet 1-03
Scale: 3/8" = 1'-0"



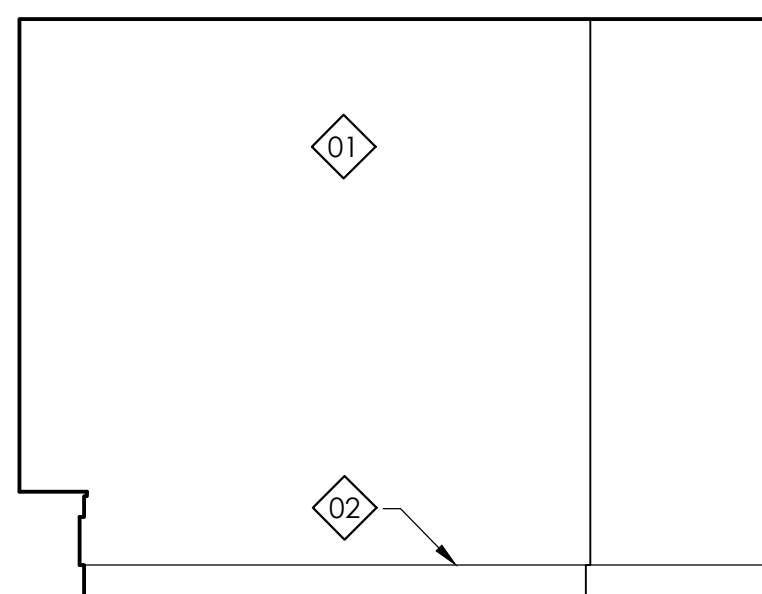
11 Toilet 1-03
Scale: 3/8" = 1'-0"



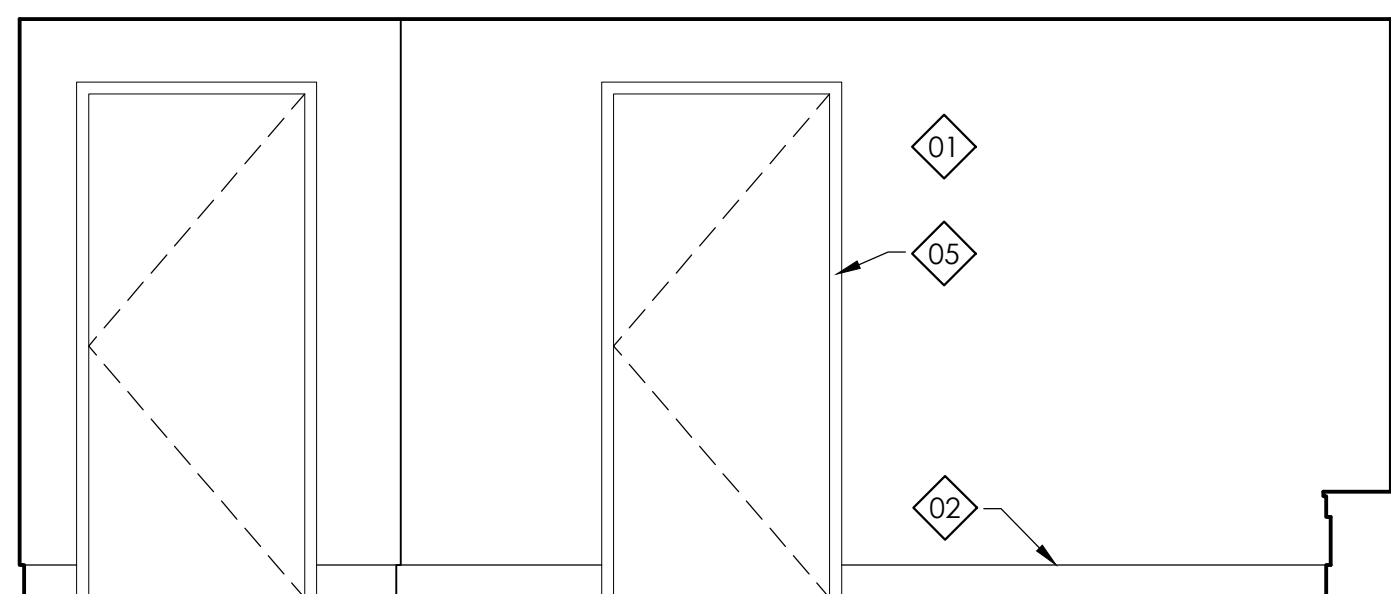
10 Toilet 1-03
Scale: 3/8" = 1'-0"



9 Toilet 1-03
Scale: 3/8" = 1'-0"

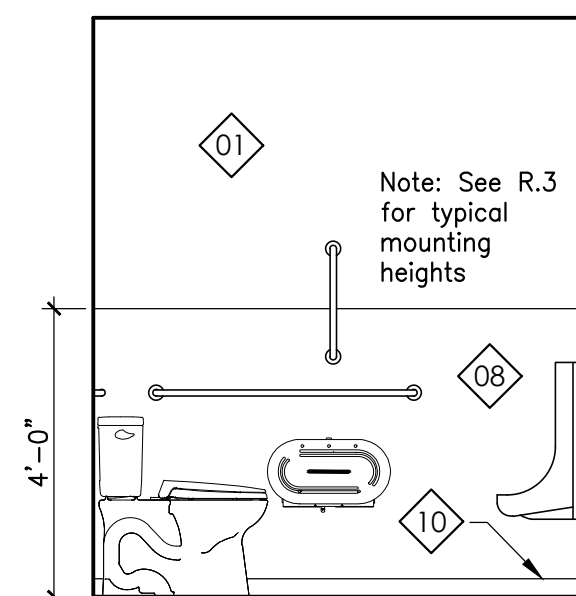


8 Office
Scale: 3/8" = 1'-0"

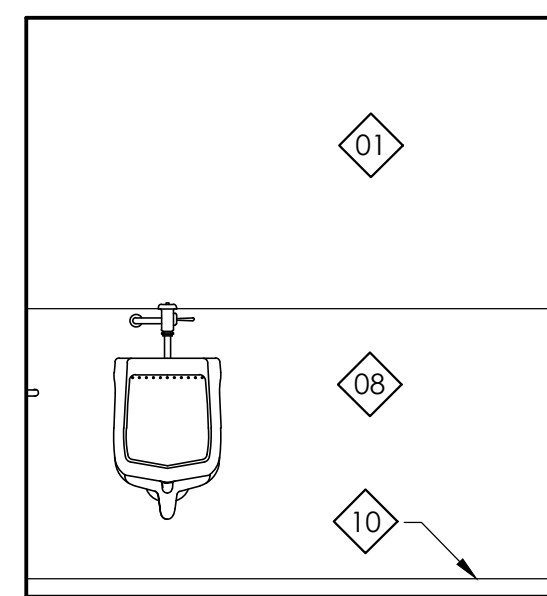


7 Office
Scale: 3/8" = 1'-0"

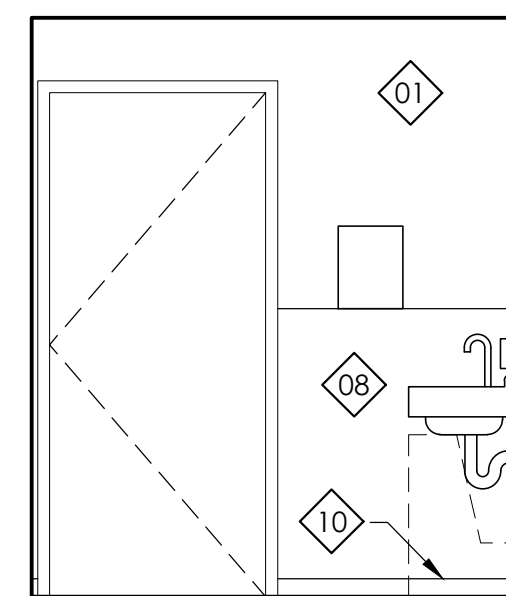
- Interior Elevation Legend
- 01. Gypsum wall board (GWB), pnt
 - 02. 1x6 Wood base, pnt
 - 03. Toilet accessories, as specified
 - 04. 1x6 Wood Baseboard, Pntd
 - 05. Hollow metal frame, pnt
 - 06. 1x Interior sill w/ eased edges, pnt
 - 07. 1x4 Apron trim w/ eased edges, pnt
 - 08. FRP wall panel, coordinate mounting requirements w/ adjacent accessories.
 - 09. All toilet accessories overlapping FRP panel to be shimmed to align with FRP panel
 - 10. Ceramic tile base



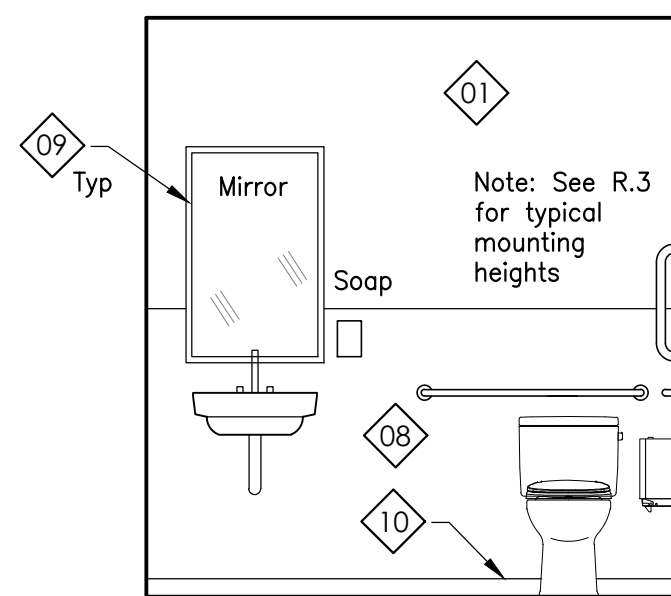
16 Restroom #2
Scale: 3/8" = 1'-0"



15 Restroom #2
Scale: 3/8" = 1'-0"



14 Toilet 1-02
Scale: 3/8" = 1'-0"



13 Toilet 1-02
Scale: 3/8" = 1'-0"

STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00

CASCO BAY
ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2828
www.casco-bay.com

David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

BENNETT
ENGINEERING
MECHANICAL • ELECTRICAL
(207) 965-9475

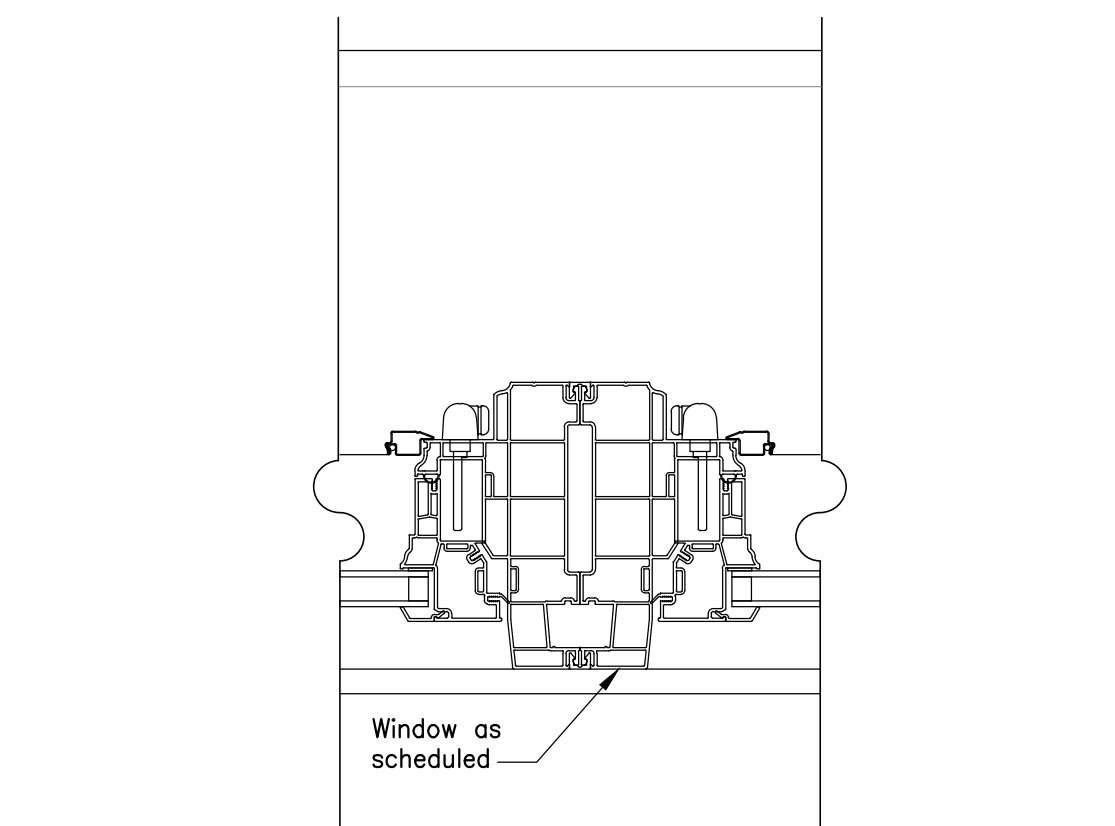
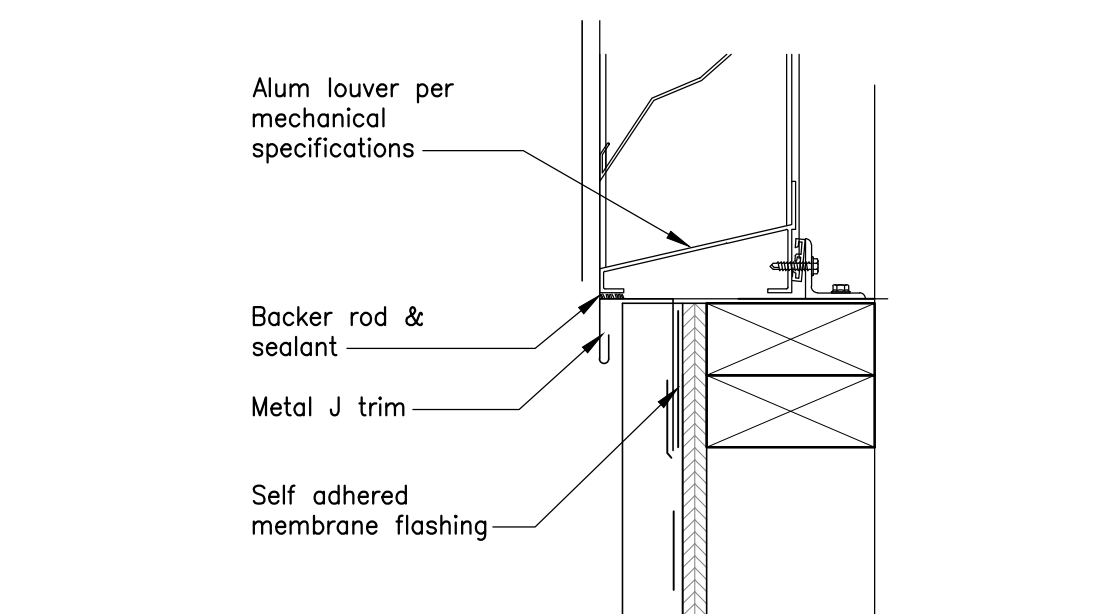
DESIGN-DETAILED	CHECKED-REVIEWED	DATE	BY	DATE	ME	PE NUMBER
		03.31.21	STS	03.31.21		
REVISION 1						03.31.21
REVISION 2						
REVISION 3						
FIELD CHANGES						

Interior Elevations
Not for Construction
Scale: 3/8" = 1' - 0"

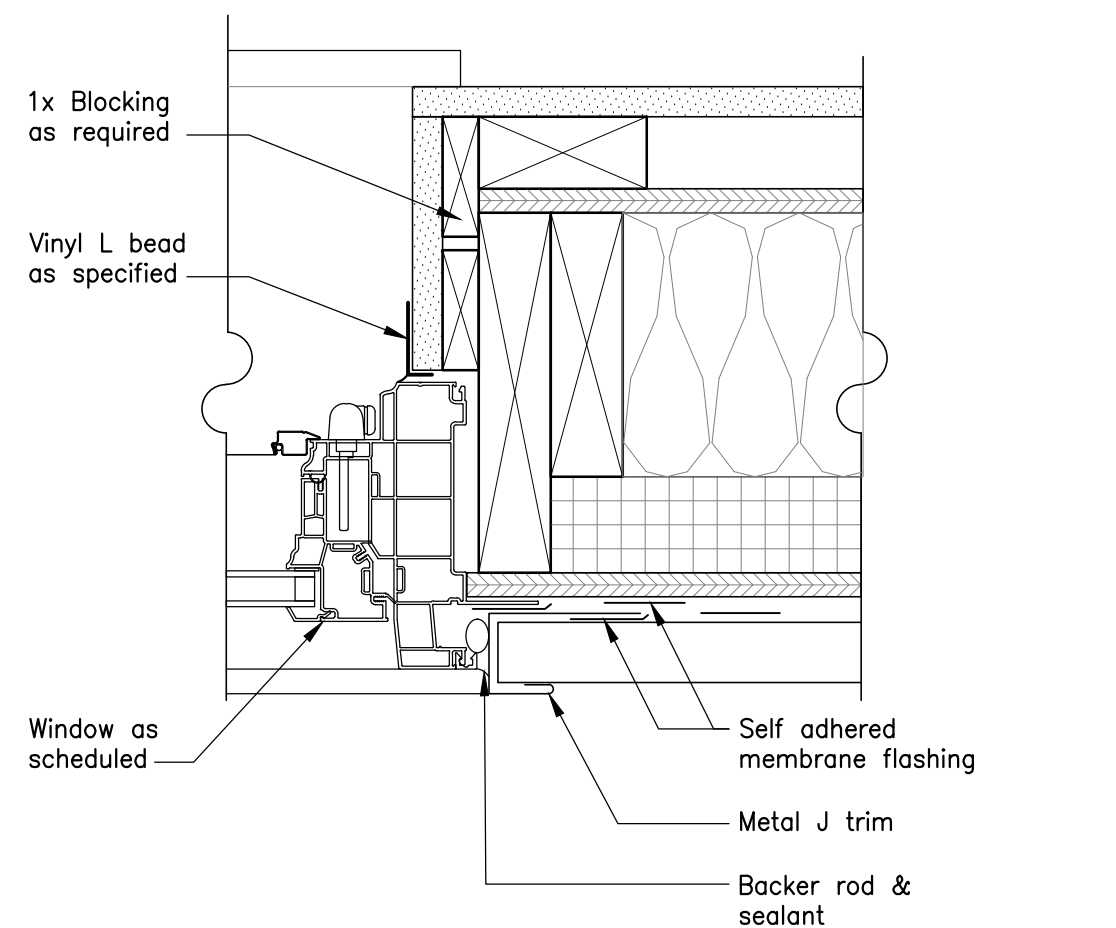
SHEET NUMBER
A5.1

		Ceiling		Floor		Wall Type
Number	Name	Height	Type	Type	Base	Refer to Interior Elevations
1-01	Break Room	8'-0"	GWB, Pnt	Conc, sealed	Wd	GWB, Pnt
1-02	Toilet	8'-0"	GWB, Pnt	CT-1	CT-1	GWB, Pnt / FRP to 4'-0"
1-03	Toilet	8'-0"	GWB, Pnt	CT-1	CT-1	GWB, Pnt / FRP to 4'-0"
1-04	Office	8'-1"	GWB, Pnt	Conc, sealed	Wd	GWB, Pnt
1-05	Closet	8'-2"	GWB, Pnt	Conc, sealed	Wd	GWB, Pnt
1-06	Garage	15'-9 1/2"	GWB, Pnt	Conc, sealed	-	Plywd, Pnt
1-07	Electric Closet	8'-0"	Ply wd, Pnt	Conc, sealed	-	Plywd, Pnt
1-08	Water Closet	8'-0"	Ply wd, Pnt	Conc, sealed	-	Plywd, Pnt

ACT	Acoustical Tile Ceiling
CT	Ceramic Tile
DAP	Densarmor Plus GWB
ETR	Existing to Remain
GWB	Gypsum Wall Board
Manuf	Manufacturer
MR	Moisture Resistant
PC	Polished Concrete
Pnt	Paint
Pre	Prefinished
PTM	Patch to Match
PW	Pre-engineered Wood
SC	Sealed Concrete
Wd	Wood
SG	Sheet Good



1.	Verify jamb extension requirement with building sections and field conditions and coordinated by GC
2.	Provide insect screens at all operable units UNO.
3.	Refer to window elevations and elevations for window operations, muntin patterns, quantities, and head heights
4.	GC to verify rough openings with window manufacturer prior to construction
5.	Provide fully adhered bituthene flashing at all window and door openings
6.	Provide tempered glazing when adjacent to a door where nearest vertical edge is within a 24 inch arc of the door in a closed position and whose bottom edge is less than 60 inches above the floor. Exceptions: when there is a wall or permanent barrier between the door and glazing Glazing in walls on the latch side of and perpendicular to the plane of the door in a closed position. Glazing adjacent to a door where access through the door is to a closet or storage area 3 feet or less in depth Glazing that is adjacent to the fixed panel of patio doors
7.	Provide tempered glazing when the exposed area of an individual pane is larger than 9 sf and the bottom edge of glazing is less than 18 inches from the floor and the top edge is more than 36 inches above the floor and the walking surface is within 36 inches horizontally of the glazing. Exceptions: When a horizontal rail is installed on the accessible side of the glazing 34 to 38 inches above the walking surface. The rail shall be capable of withstanding a horizontal load of 50 lb./ft.
8.	Provide tempered glazing when adjacent to stairways and landing within 36 inches horizontally of a walking surface when less than 60 inches off the floor. Exception: When a guard or rail is installed on the accessible side of the glazing 34 to 38 inches above the floor.
9.	When an operable window is located more than 72" above finished grade or surface below, and the lowest part of the clear opening is below 24" above the floor. Operable sections of the window shall not permit openings that allow passage of a 4" sphere. Window opening limiting devices shall be designed with release mechanisms without the need for keys, tools, or special knowledge.
10.	Glazing in walls facing tubs, showers, whirlpools, etc where the bottom edge of the glazing is less than 60 inches above a walking surface and within 60 inches measured vertically above any standing or walking surface. Exception, glazing that is more than 60 inches, measured horizontally and in a straight line, from the water's edge of a tub or whirlpool.



Tag	Unit	Type	Mulled	Unit Size (WxH)	R.O. (WxH)	Egress	Tempered	Remarks
A		Casement		2'-6" x 4'-0"				
B		Casement/Fixed	Y (3 Units)	7'-6" x 4'-0"				
C		Casement		2'-6" x 3'-6"				
D		Casement	Y (2 Units)	5'-0" x 4'-0"				

Mech fastened as necessary in corners through membrane

Exterior airtight sheathing, ZIP wall or equivalent

Sill plate

Sill tape such as Extoseal Encors or Siga Wigluv at sill and corners

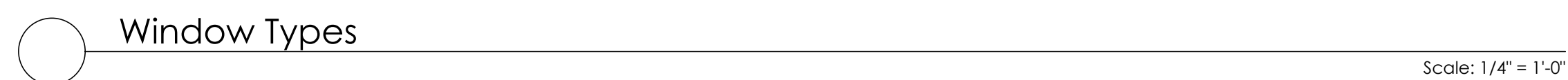
Manuf. standard corner or corner patch

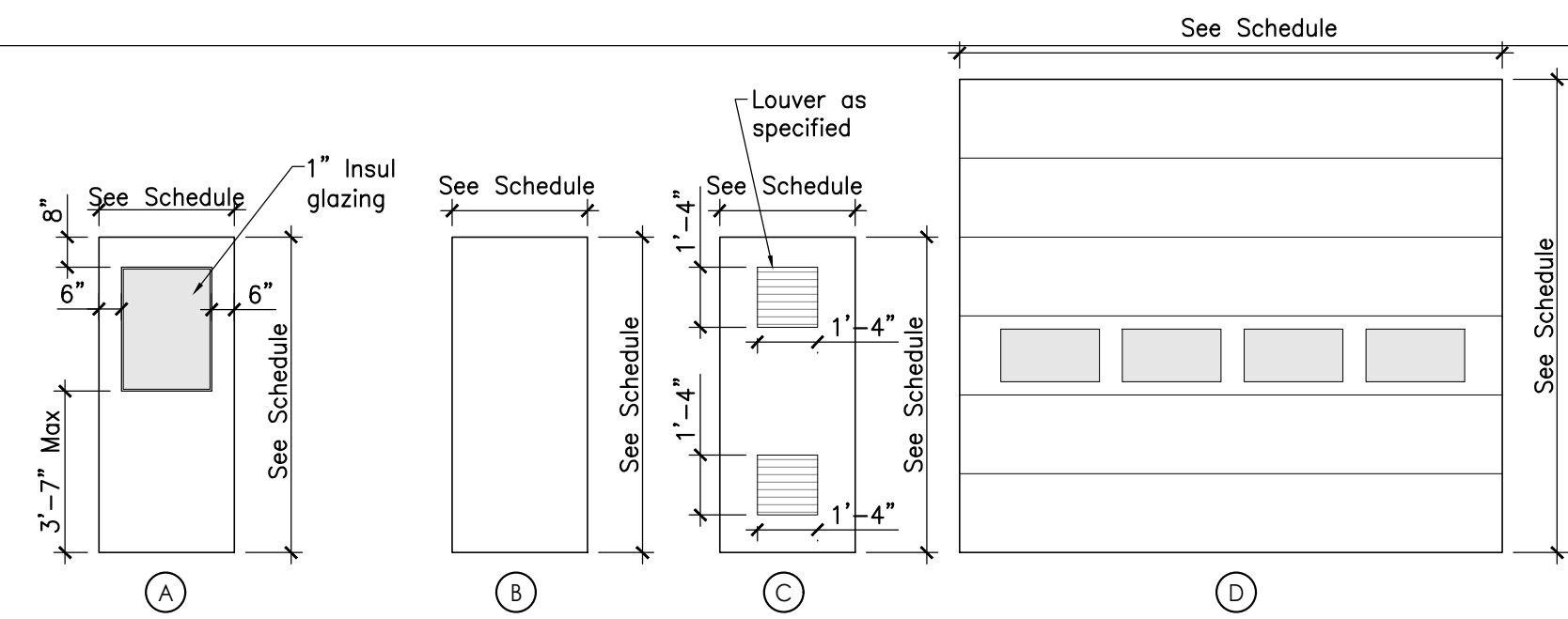
Vapor-open and waterproof tape such as Siga Wigluv, Tescon Vana, Tescon Profil/Protect, or Contega Solido Exo

Do not flash over bottom nailing flange

Notes:

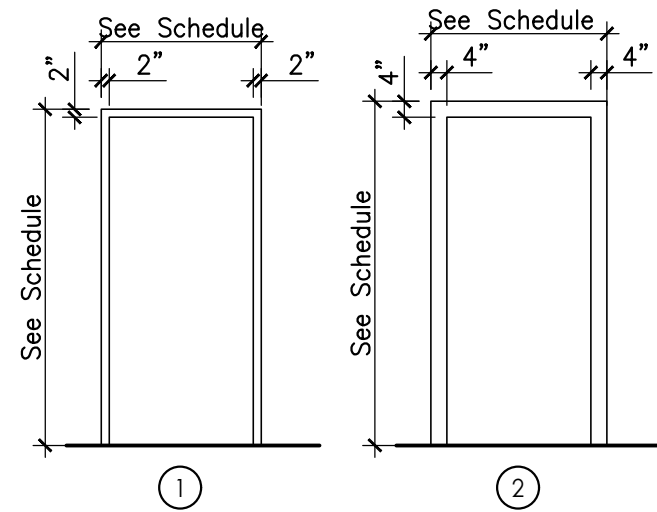
1. Install waterproof and vapor-open tape flashing in order as shown by numbers.
2. Install the tape flashing before installing drainable building wrap.
3. Install tape flashing in order shown to form water-shedding laps. Install laps 1-4 before installing window and laps 5 and 6 after window is fastened in place.





Door Types

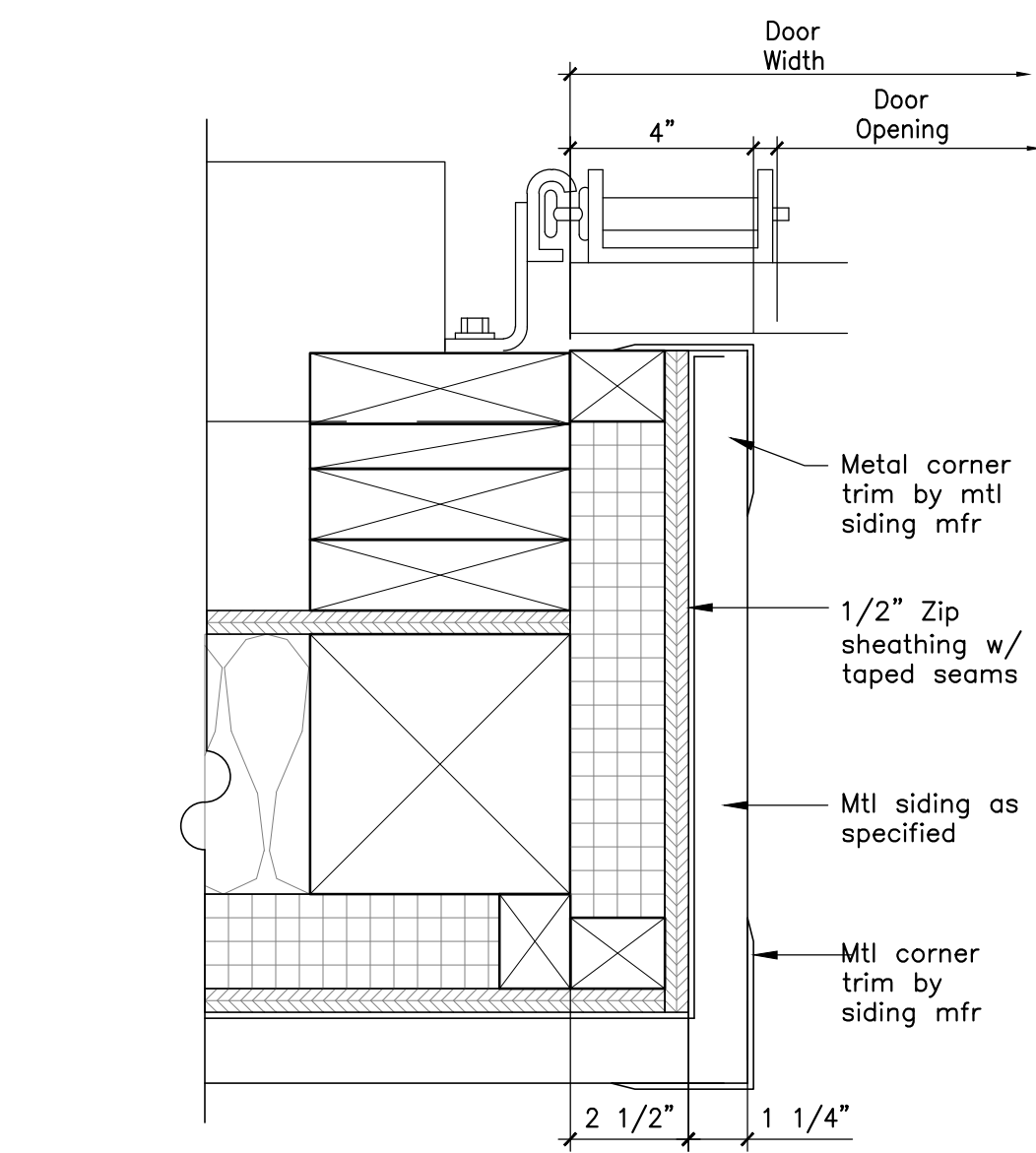
Scale: 1/4" = 1'-0"



Frame Types

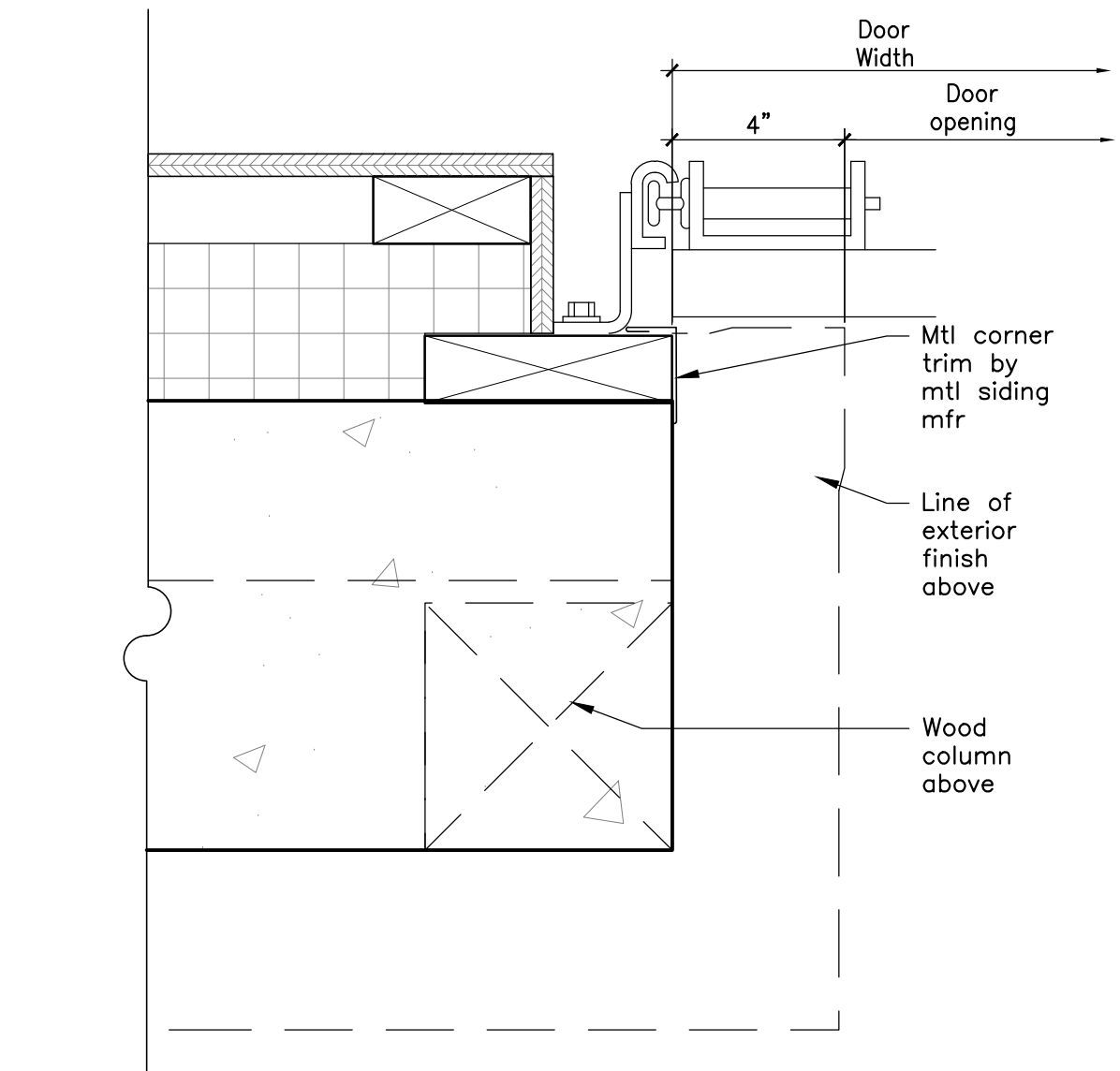
Scale: 1/4" = 1'-0"

DOOR SCHEDULE																									
Door								Frame					Hardware		Miscellaneous										Remarks
No.	Width	Height	Thick.	Material	Type	Finish	Insul	Material	Type	Head	Jamb	Thshld	No. Set	Rating	Glazing	Clsr	Panic	Key Pad	MHO	Wstrip	Pivacy Locks	ADA Auto Opnr	Tactile Warning	Sound Seal	
1-01	3'-0"	7'-0"	1 3/4"	Fg	A	Pnt	Yes	Fg	2	5/A9.1	3,5/A9/1	7/A9.1			Insul, Yes			Yes		Yes					Provide kerf pocket at stop for weather stripping
1-02	3'-0"	7'-0"	1 3/4"	Fg	A	Pnt	Yes	Fg	2	1/A9.1	1/A9.1	10/A9.1			Insul, Yes	Yes				Yes					Provide kerf pocket at stop for weather stripping
1-03	3'-0"	7'-0"	1 3/4"	Wd	B	Pnt		HM	1	1/A9.1	1/A9.1	9/A9.1									Yes				
1-04	3'-0"	7'-0"	1 3/4"	Wd	B	Pnt		HM	1	1/A9.1	1/A9.1	9/A9.1									Yes				
1-05	3'-0"	7'-0"	1 3/4"	Wd	B	Pnt		HM	1	1/A9.1	1/A9.1	-									Yes				
1-06	3'-0"	7'-0"	1 3/4"	Wd	B	Pnt		HM	1	1/A9.1	1/A9.1	-													
1-07	3'-0"	7'-0"	1 3/4"	Fg	B	Pnt	Yes	Fg	1	6/A9.1	4,6/A9.1	7/A9.1						Yes		Yes					Provide kerf pocket at stop for weather stripping
1-08	14'-8"	14'-0"		Stl	D	Pnt	Yes	-	-	11/A4.1	8,11/A9.1	See Struct													
1-09	14'-8"	14'-0"		Stl	D	Pnt	Yes	-	-	11/A4.1	8,11/A9.1	See Struct													
1-10	14'-8"	14'-0"		Stl	D	Pnt	Yes	-	-	11/A4.1	8,11/A9.1	See Struct													
1-11	14'-8"	14'-0"		Stl	D	Pnt	Yes	-	-	11/A4.1	8,11/A9.1	See Struct													
1-12	3'-0"	7'-0"	1 3/4"	Fg	B	Pnt	Yes	Fg	1	6/A9.1	4,6/A9.1	7/A9.1						Yes		Yes					Provide kerf pocket at stop for weather stripping
1-13	3'-0"	7'-0"	1 3/4"	HM	B	Pnt		HM	1	1/A9.1	1/A9.1	-													
1-14	3'-0"	7'-0"	1 3/4"	HM	B	Pnt		HM	1	1/A9.1	1/A9.1	-													
1-15	3'-0"	7'-0"	1 3/4"	HM	C	Pnt		HM	1	1/A9.1	1/A9.1	-													
No.	Width	Height	Thick.	Material	Type	Finish	Insul	Material	Type	Head	Jamb	Thshld	No Set	Rating	Glaz	Clsr	Panic	Card Rd	MHO	Wstrip	Prv.Locks	ADA	Tactile Wrn	Sd Seal	Remarks
2-01	3'-0"	6'-0"	1 3/4"	HM	B	Pnt	Yes	HM	1	2A/9.1 Sim	2A/A9.1	11/A4.1				Yes				Yes					
2-02	3'-0"	6'-8"	1 3/4"	HM	B	Pnt	Yes	HM	1	2/A9.1 Sim	2/A9.1	10/A9.1				Yes				Yes					
2-03	3'-0"	4'-4"	1 3/4"	HM	B	Pnt	Yes	HM	1	2A/A9.1 Sim	2A/A9.1 Sim	10/A9.1				Yes				Yes					



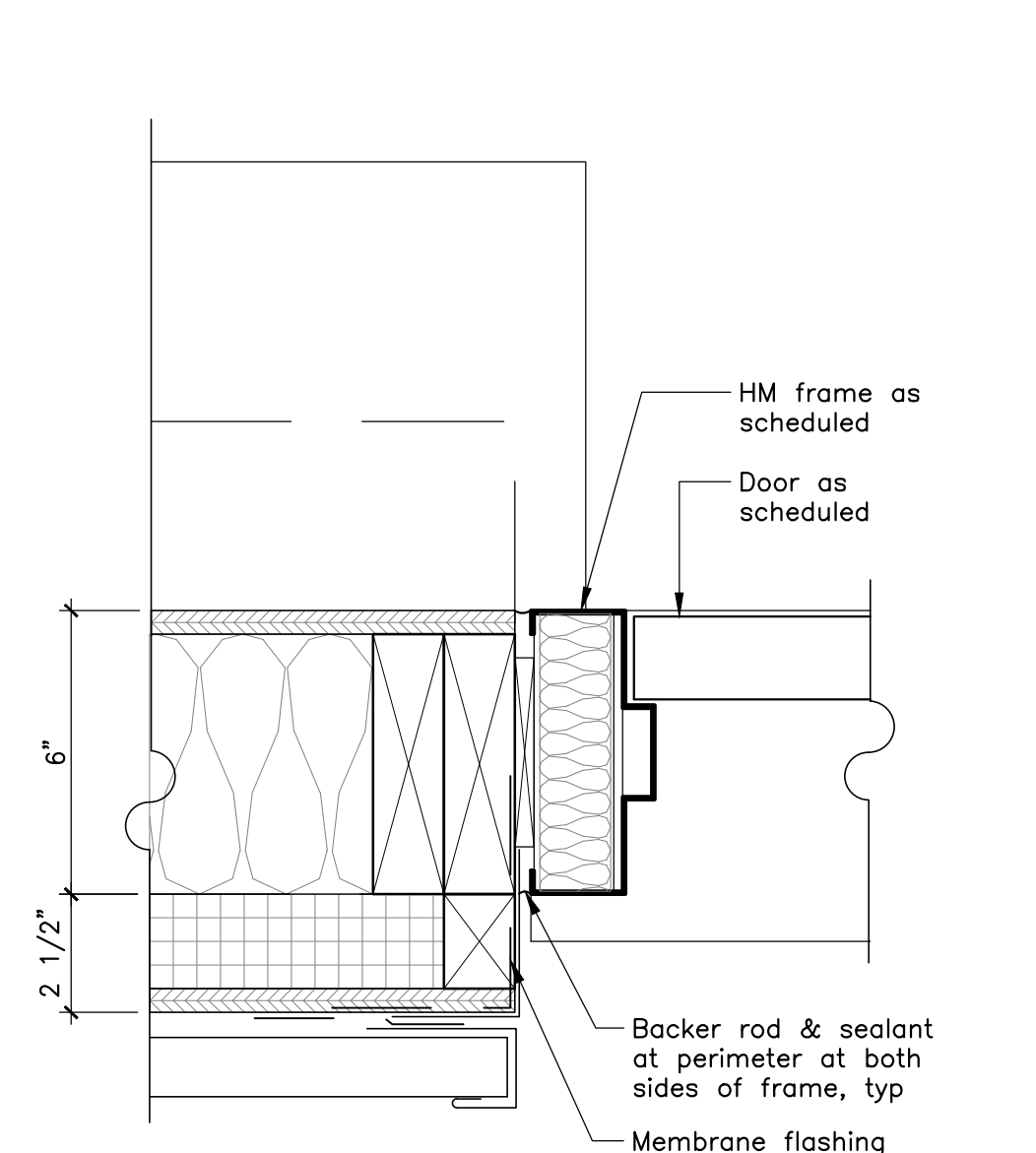
11 OH Door Jamb Det @ Mtl Siding

Scale: 3" = 1'-0"



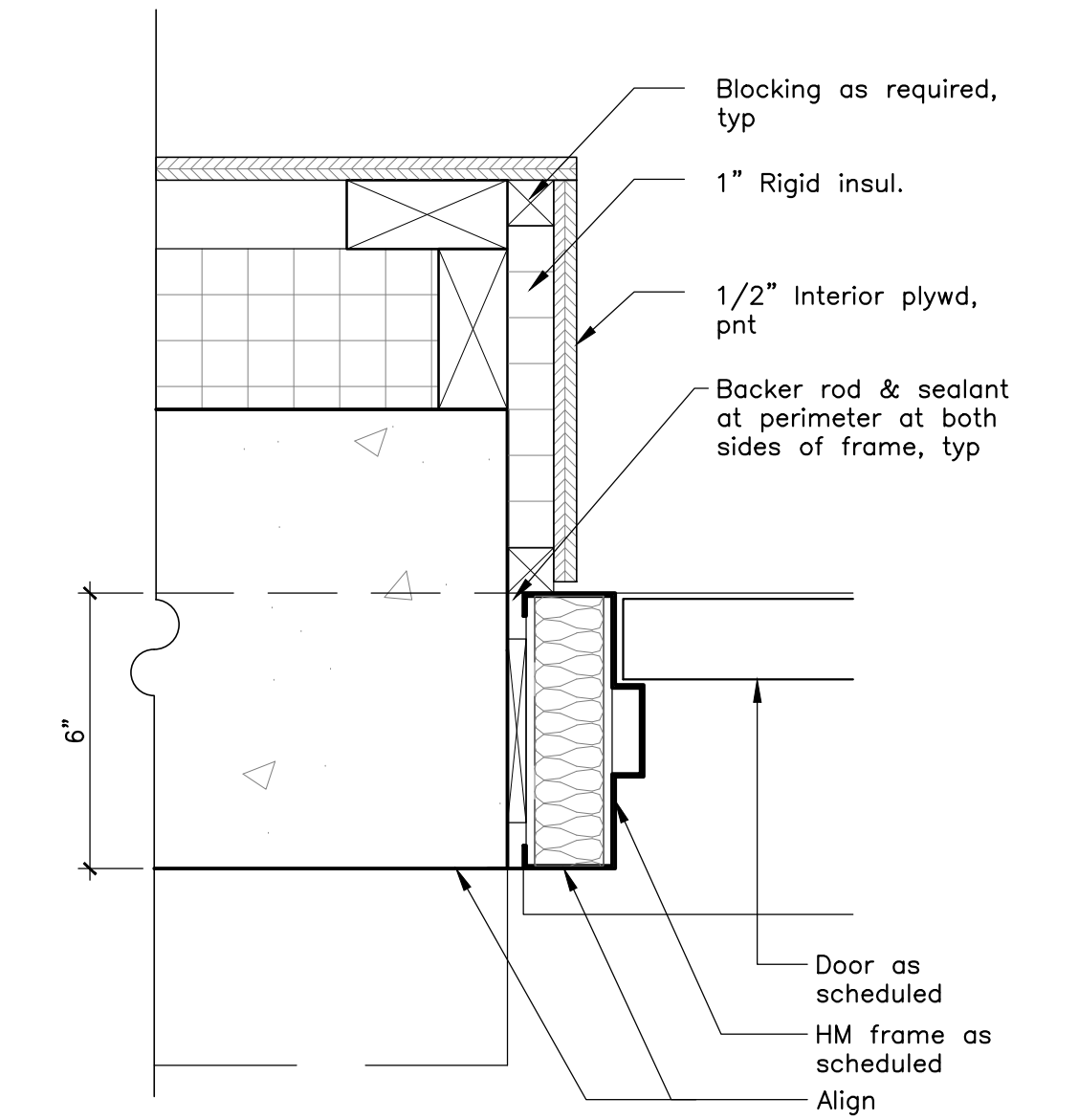
8 OH Door Jamb Det @ Found Wall

Scale: 3" = 1'-0"



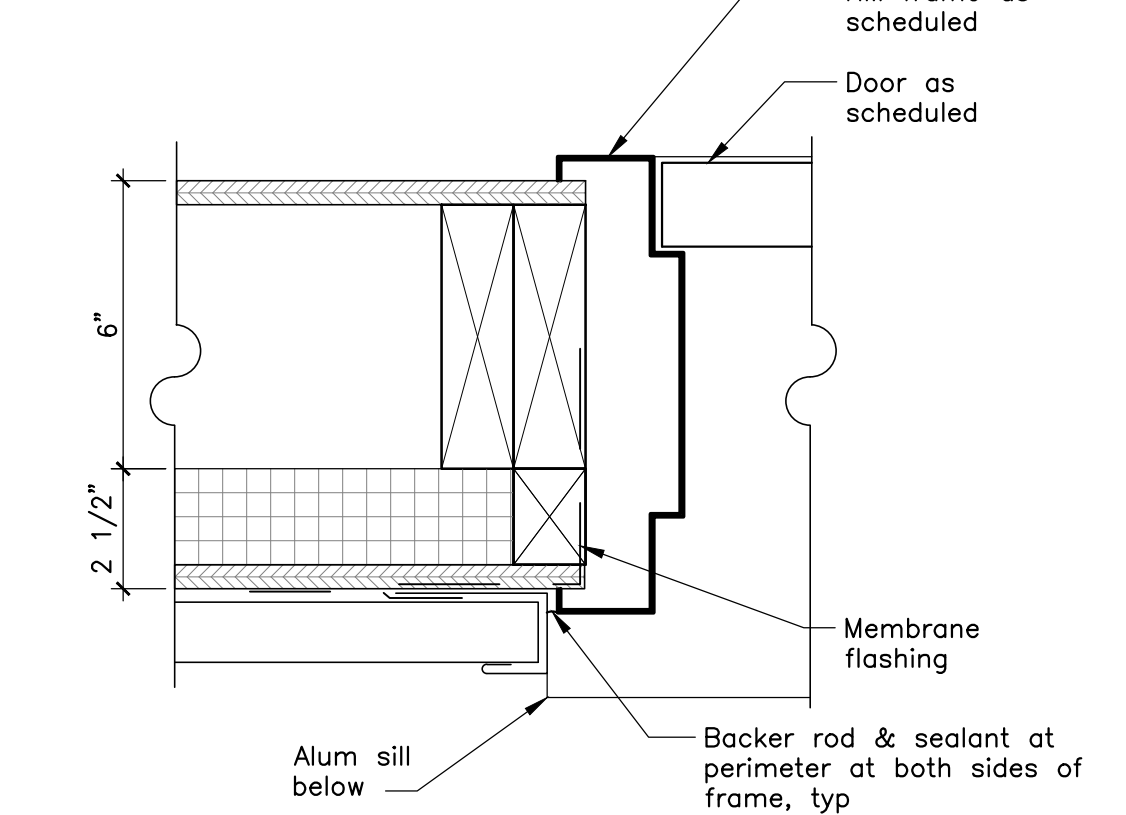
6 HM Jamb (Head Sim) Det

Scale: 3" = 1'-0"



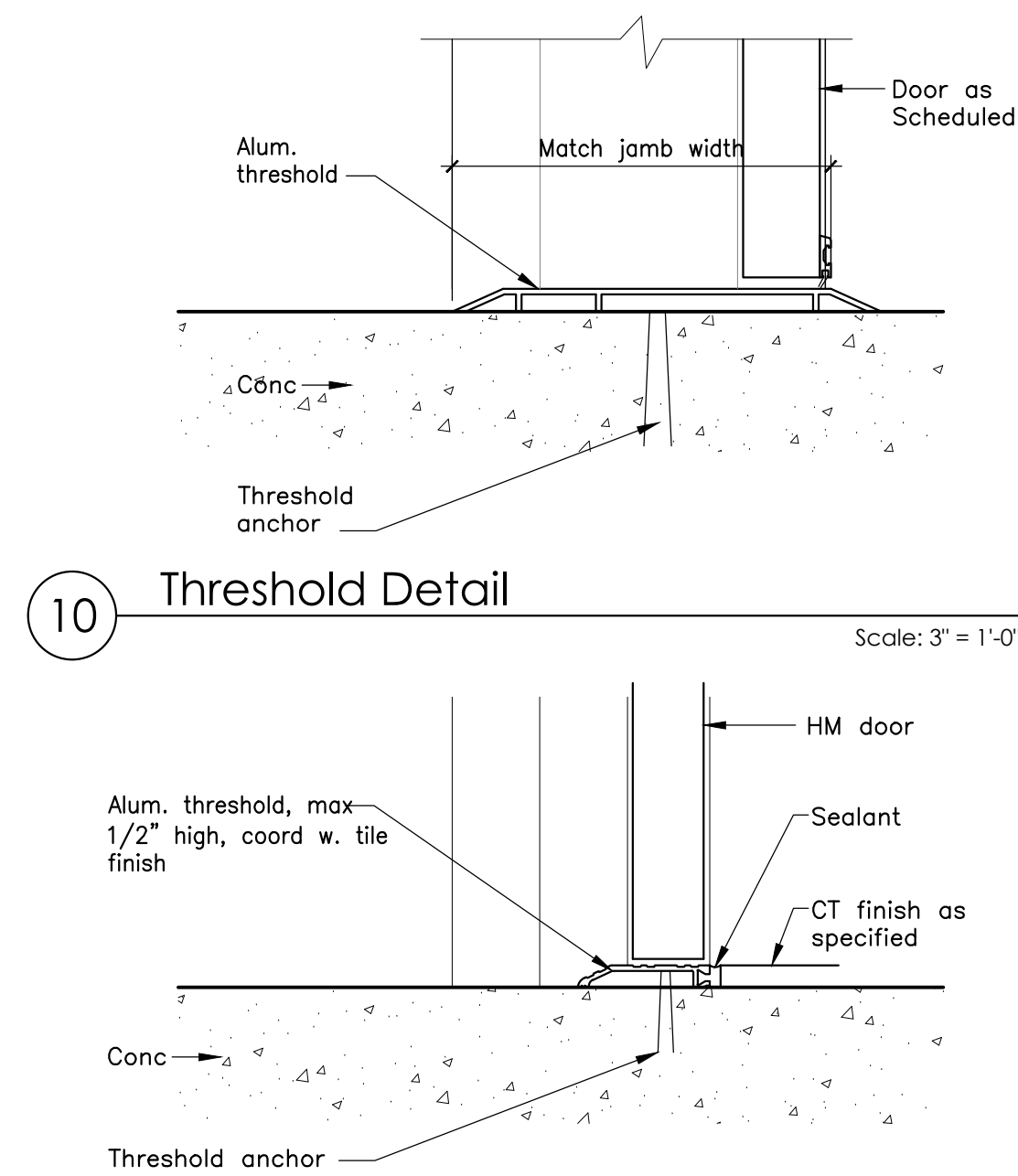
4 HM Jamb Det @ Found Wall

Scale: 3" = 1'-0"



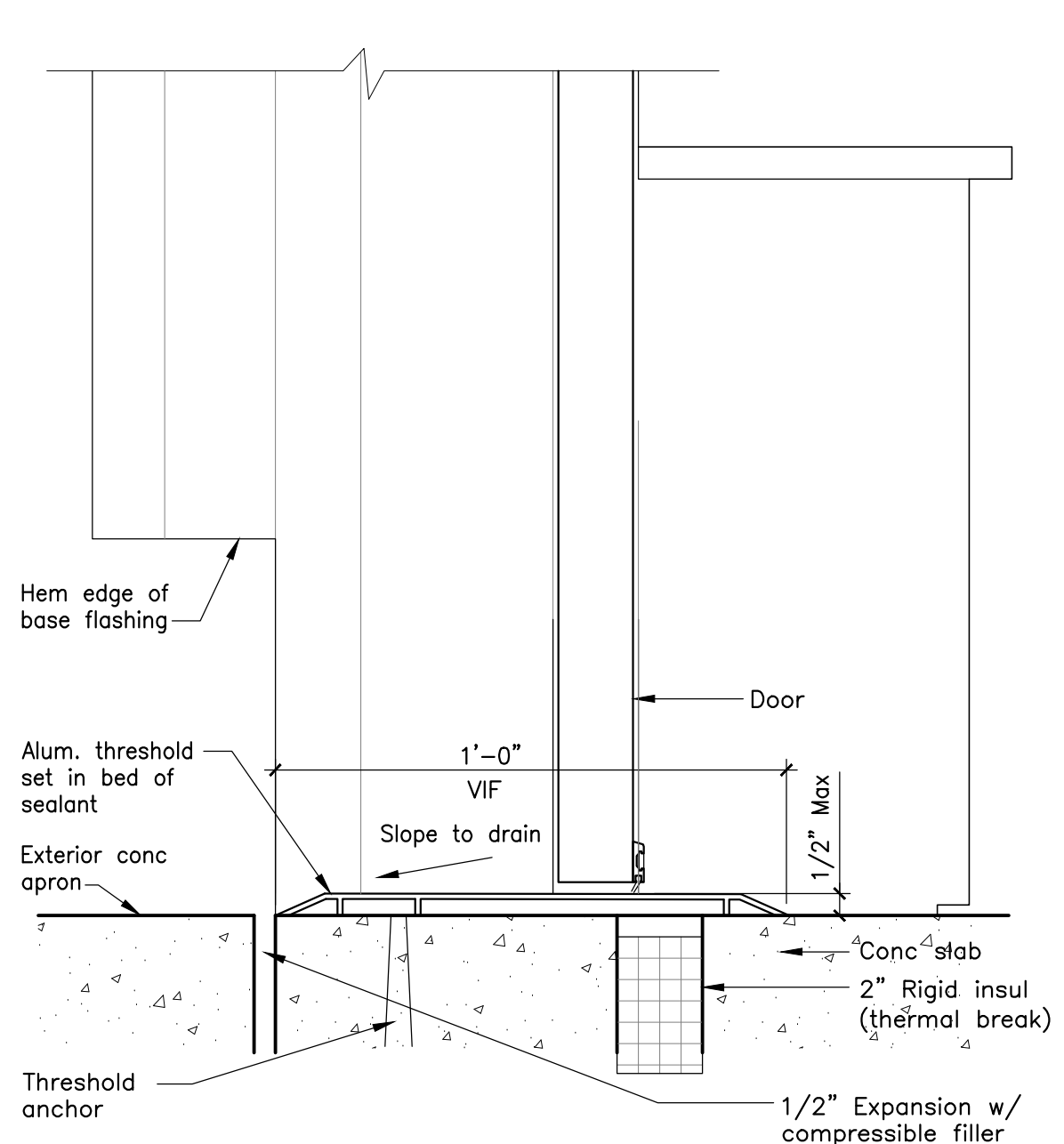
2A HM Jamb Detail (Head Sim)

Scale: 3" = 1'-0"



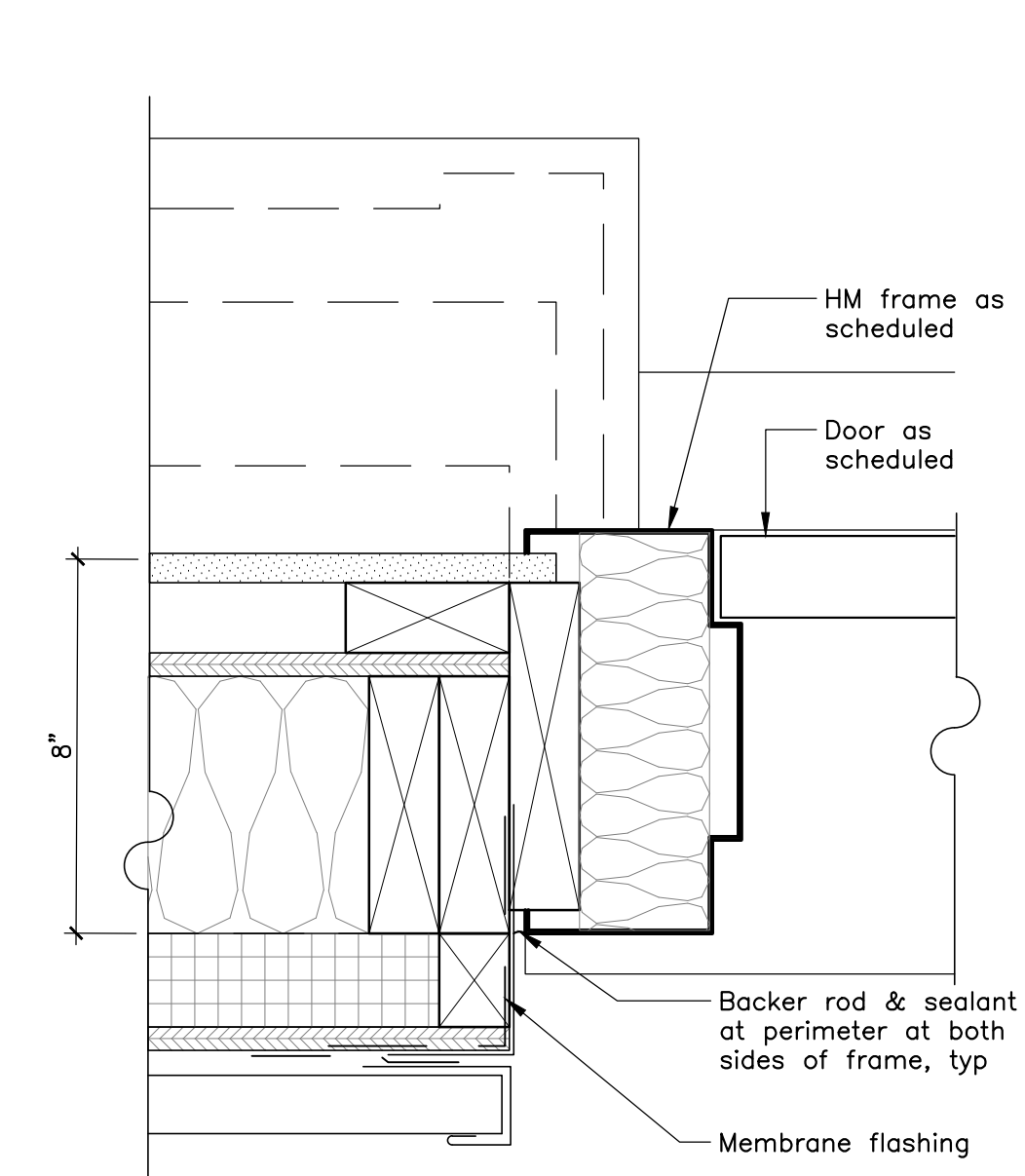
10 Threshold Detail

Scale: 3" = 1'-0"



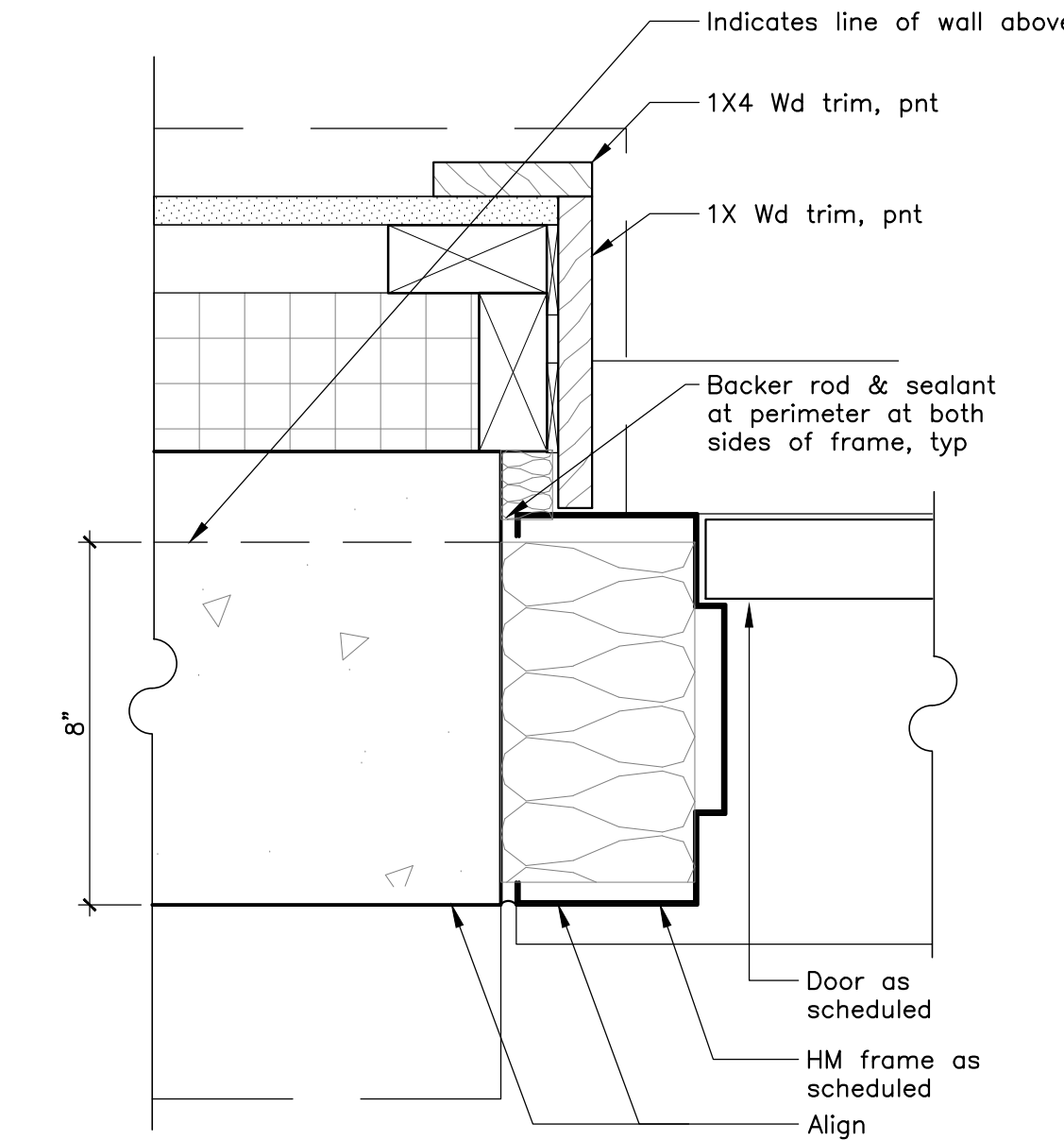
7 Threshold Detail

Scale: 3" = 1'-0"



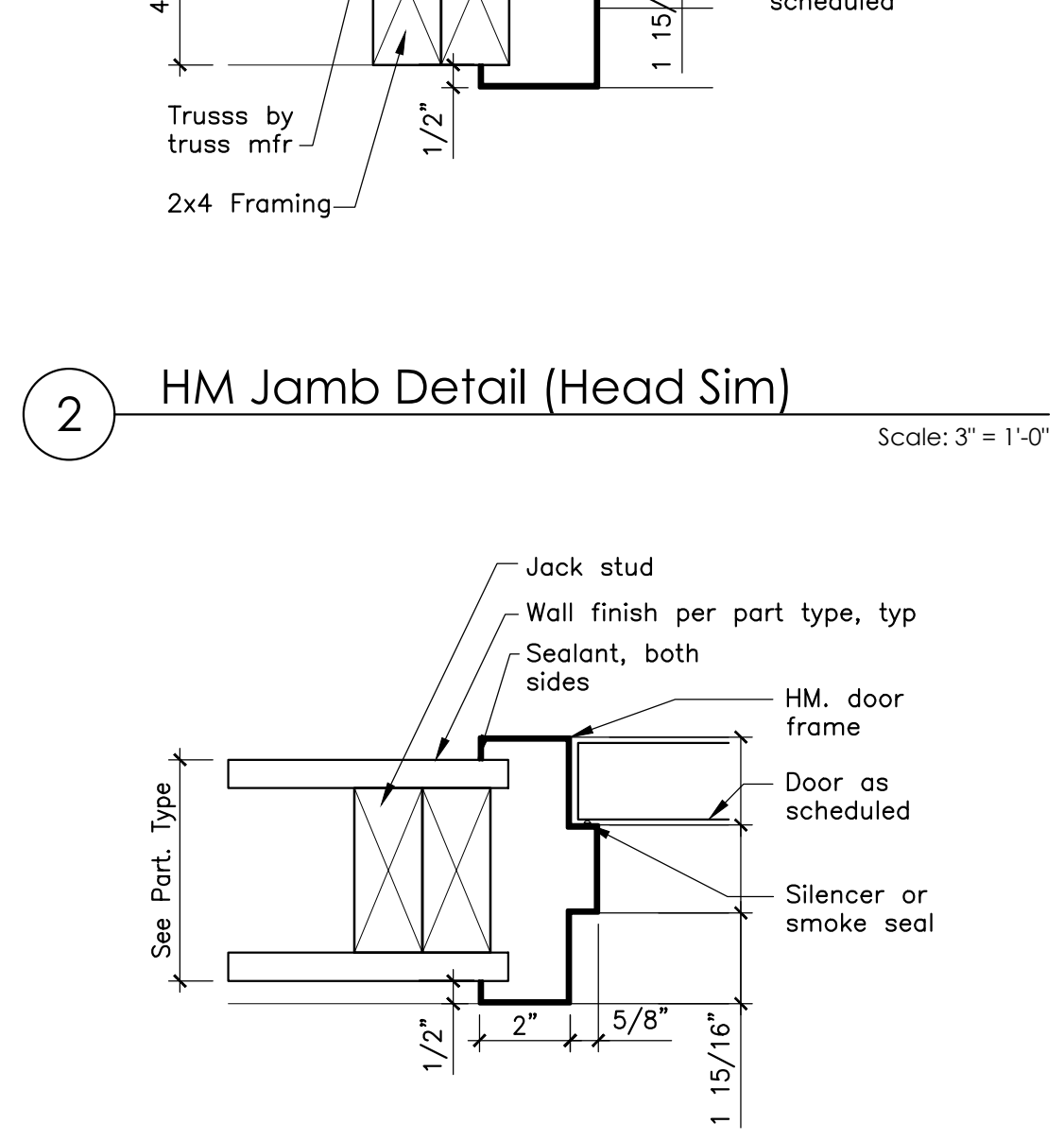
5 HM Jamb (Head Sim.) Det

Scale: 3" = 1'-0"



3 HM Jamb Det @ Enty @ Found Wall

Scale: 3" = 1'-0"



2 Typ HM Jamb Detail (Head Sim)

Scale: 3" = 1'-0"

GENERAL NOTES

THE FOLLOWING BUILDING CODES AND STANDARDS SHALL BE REFERENCED DURING CONSTRUCTION:

IBC 2009 ASCE 7	EDITION OF THE IBC INTERNATIONAL BUILDING CODE AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ACI 301	AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ACI 318	AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
ASTM NDS	AMERICAN SOCIETY OF TESTING AND MATERIALS NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION BY NATIONAL FOREST PRODUCTS ASSOCIATION, 2005.

REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. REFERENCE ARCHITECTURAL PLANS FOR SIZES AND LOCATIONS OF WALL. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, OR NOTES ON THE DRAWINGS, THE DEPARTMENT SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.

EXISTING DIMENSIONS AND CONDITIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION OR FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE DEPARTMENT PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IF DEVIATIONS OR CHANGES ARE REQUIRED TO THE CONTRACT DOCUMENTS OR APPROVED SHOP DRAWINGS DUE TO INTERFERENCES, FABRICATION ERRORS, OR OTHER CAUSES.

THE STRUCTURE IS SELF-SUPPORTING AND STABLE AFTER THE ENTIRE BUILDING IS COMPLETELY CONSTRUCTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCING DURING CONSTRUCTION AND ERECTION TO PROVIDE AND ENSURE LOCAL AND OVERALL STABILITY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION AND ERECTION. THE CONTRACTOR SHALL RETAIN A LICENSED STRUCTURAL ENGINEER TO DESIGN TEMPORARY BRACING/SHORING AND DETERMINE WHERE THE TEMPORARY BRACING/SHORING IS NEEDED.

FOUNDATION NOTES

SUBGRADE PREPARATION AND DETERMINATION (INCLUDING ALLOWABLE BEARING PRESSURE, STRUCTURAL FILL GRADATION REQUIREMENTS, COMPACTION REQUIREMENTS AND POST-CONSTRUCTION SETTLEMENT ANALYSIS) BENEATH FOOTINGS AND SLABS-ON-GRADE AND BEHIND FOUNDATION WALLS SHALL BE PROVIDED BY THE DEPARTMENT. ALL FILL USED TO SUPPORT FOUNDATIONS AND SLABS-ON-GRADE SHALL CONSIST OF WELL-GRADED 1" CRUSHED GRAVEL. STRUCTURAL SLABS SHALL BE CONSTRUCTED ON A MINIMUM 12" THICK LAYER OF STRUCTURAL FILL SOIL WITH PROPERTIES PER THE DEPARTMENT.

PRESUMED ALLOWABLE SOIL BEARING PRESSURE USED IN DESIGN = 2,000 PSF. BEARING CAPACITIES SHALL BE VERIFIED BY THE DEPARTMENT. MINIMUM FROST DEPTH COVER = 5'-0" FOR EXTERIOR FOOTINGS BELOW FINAL EXTERIOR GRADE. CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF ANY DISCREPANCIES.

FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL, UNLESS NOTED OTHERWISE. BEARING ELEVATIONS SHALL BE LOWERED WHERE SUITABLE SOILS ARE NOT ENCOUNTERED. WHERE OVEREXCAVATION HAS OCCURRED, CONTRACTOR MAY PLACE LEAN CONCRETE ON TOP OF NATIVE SOIL. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IF ANY UNSUITABLE SOILS ARE ENCOUNTERED PRIOR TO PLACING FOUNDATIONS.

FOUNDATION WALLS SHALL BE BACKFILLED SIMULTANEOUSLY ON BOTH SIDES OF THE WALL. 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. BACKFILL FOR FOUNDATION WALLS IS BASED ON DRAINED CONDITIONS. SEE ARCHITECTURAL, CIVIL, AND MECHANICAL DRAWINGS FOR FOUNDATION DRAINAGE SYSTEM.

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.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING AND BRACING OF EXISTING STRUCTURES DURING EXCAVATION, BACKFILLING, AND CONSTRUCTION. CONTRACTOR SHALL SLOPE EXCAVATIONS TO ACHIEVE SOIL STABILITY.

CONCRETE NOTES

ALL CONCRETE WORK, INCLUDING MATERIAL SELECTION, ADMIXTURES, MIXING, AND PLACEMENT OF CONCRETE SHALL BE IN CONFORMANCE WITH APPLICABLE BUILDING CODES. IN ADDITION, REFERENCE THE FOLLOWING CONCRETE STANDARDS AND SPECIFICATIONS:

ACI 318	AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
ACI 301	AMERICAN CONCRETE INSTITUTE SPECIFICATIONS FOR STRUCTURAL CONCRETE
ACI 308	STANDARD PRACTICE FOR CURING CONCRETE

REQUIRED CONCRETE PARAMETERS ARE AS FOLLOWS:

LOCATION	MAX W/C RATIO	f _c	AIR-ENTRAINMENT
FOUNDATIONS, FOOTINGS, & FOUNDATION WALLS	.52	4,350 PSI	5% – 7%
INT. SLAB-ON-GRADE	.47	4,350 PSI	1% – 4%
EXT. SLAB-ON-GRADE	.45	4,350 PSI	5% – 7%

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

MAXIMUM AGGREGATE SIZE SHALL BE ¾", IN CONFORMANCE WITH ASTM C33. USE PORTLAND CEMENT TYPE II, IN CONFORMANCE WITH ASTM 150. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C 260. ADMIXTURES SHALL CONFORM TO "SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE" ASTM C 494. FLY ASH USED AS ADMIXTURES SHALL CONFORM TO ASTM C 618. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE IS NOT PERMITTED.

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

CONCRETE EXPOSED TO FREEZING AND THAWING, INCLUDING FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, AND INTERIOR SLABS SHALL BE AIR ENTRAINED WITH AIR CONTENT BETWEEN 5% AND 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 SECTION 502.08 COLD WEATHER CONCRETE OF "STATE OF MAINE, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, REVISION OF MARCH 2020", FOR RECOMMENDATIONS FOR COLD WEATHER CONCRETING.

CONTRACTOR SHALL SUBMIT PROPOSED CONCRETE MIX DESIGN AND LABORATORY TESTS OF FABRICATED CYLINDERS VERIFYING CONCRETE STRENGTH OR PERFORMANCE HISTORY OF MIX TO THE DEPARTMENT FOR ACCEPTANCE PRIOR TO PLACEMENT OF CONCRETE. CONCRETE USED ON SITE SHALL BE FIELD TESTED BY THE DEPARTMENT. FIELD TESTING INFORMATION SHALL INDICATE SLUMP, AIR CONTENT, AND TEMPERATURE. COMPRESSION TEST 1 CYLINDER AT 7 DAYS AND 2 AT 28 DAYS. HOLD AN ADDITIONAL CYLINDER FOR A 56 DAY BREAK, IF NECESSARY. PROVIDE A SET OF 4 CYLINDERS FOR EACH PLACEMENT AND PER 50 CUBIC YARDS OF CONCRETE PLACED. THE DEPARTMENT SHALL PROVIDE ALL CONCRETE TESTING.

CONSTRUCTION JOINTS IN WALLS ARE NOT PERMITTED.

ANCHOR BOLTS SHALL CONFORM TO ASTM F1554. ANCHOR BOLTS SHALL HAVE HEAVY HEX NUTS AND LOCK WASHERS.

WOOD NOTES

ALL LUMBER SHALL BE VISUALLY GRADED AND STAMPED WITH GRADE DESIGNATION, SPECIES, AND ADDITIONAL INSPECTION INFORMATION, U.N.O..

CARE SHALL BE TAKEN TO PROTECT TIMBER FROM WEATHER AND DAMPNESS. DO NOT STACK IN SUCH A WAY AS TO CAUSE WARPING OR PREVENT ADEQUATE AIR CIRCULATION.

WOOD GRADES AND SPECIES:

1. SPRUCE-PINE-FIR, No.1/No.2 OR BETTER FOR TYPICAL LUMBER (JOISTS, WALLS, ETC) U.N.O.
2. USE SOUTHERN YELLOW PINE FOR EXTERIOR EXPOSURE APPLICATIONS AND WHERE SHOWN ON DRAWINGS AS PRESERVATIVE PRESSURE TREATED LUMBER (PT OR PPT).
3. WHERE NOTED LVL ON DRAWINGS, PROVIDE VERSA LAM 3100 BY BOISE CASCADE, OR EQUIVALENT, WHICH HAS THE FOLLOWING MINIMUM ALLOWABLE STRESSES:

A. LVL PROPERTIES:	
F _b = 3100 PSI	F _c = 2510 PSI (PARALLEL TO GRAIN)
F _v = 285 PSI	F _c = 750 PSI (PERPENDICULAR TO GRAIN)
F _t = 1555 PSI	E = 2,000,000 PSI

STRUCTURAL LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%.

PROVIDE PRESSURE TREATED OR VOLVANIZED LUMBER FOR ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE. ALL CONNECTORS THAT ARE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIP GALVANIZED, U.N.O.

NOMINAL SIZES ARE TYPICALLY REFERENCED ON THE DRAWINGS. PROVIDE ACTUAL SIZES AS SET FORTH IN U.S. DEPARTMENT OF COMMERCE VOLUNTARY PRODUCT STANDARD PS20-99.

ALL PLYWOOD SHALL BE APA RATED SHEATHING:

1. USE ¾" ZIP PLYWOOD ROOF SHEATHING. ATTACH PLYWOOD WITH LONG SIDE PERPENDICULAR TO FRAMING. STAGGER PANEL ENDS. USE SHEATHING CLIPS BETWEEN SHEETS WHERE BLOCKING IS NOT REQUIRED.
2. USE ¾" PLYWOOD FLOOR SHEATHING. ATTACH PLYWOOD WITH LONG SIDE PERPENDICULAR TO FRAMING. STAGGER PANEL ENDS.

PROVIDE FULL DEPTH BLOCKING AT ENDS AND INTERIOR SUPPORTS OF ALL JOISTS AND RAFTERS WHERE JOISTS AND RAFTERS FRAME OVER SUPPORTS. PROVIDE 1x3 DIAGONAL BRIDGING OR FULL DEPTH SOLID BLOCKING FOR EACH 8'-0" OF SPAN FOR ALL JOISTS AND RAFTERS.

WHERE BEAMS ARE LABELED ON PLAN, DO NOT SPLICE BEAM NOR ANY PLY OF BEAM BETWEEN SUPPORTS.

FASTENERS SHALL COMPLY WITH RECOMMENDED FASTENING SCHEDULE OF REFERENCED BUILDING CODE, U.N.O. ON DRAWINGS, SPIKE TOGETHER ALL FRAMING MEMBERS WHICH ARE BUILT-UP USING A MINIMUM OF 2-ROWS OF 16d NAILS AT 12" O.C. STAGGERED, UNLESS OTHERWISE NOTED IN BOCA OR ON THE DRAWINGS. NAIL MULTIPLE LVL'S TOGETHER AS RECOMMENDED BY THE MANUFACTURER USING A MINIMUM OF 2-ROWS OF 16d NAILS AT 12" o.c. STAGGERED. ALL FASTENERS, NUTS, AND WASHERS SHALL BE HOT-DIPPED GALVANIZED.

ALIGN COLUMNS SUCH THAT COLUMNS BEAR CONTINUOUSLY TO FOUNDATION SUPPORT.

PROVIDE HORIZONTAL BLOCKING FOR ALL LOAD BEARING WALLS AT 4'-0" O.C. VERTICAL, MAXIMUM.

SUBMIT SHOP DRAWINGS FOR ALL PREFABRICATED WOOD JOISTS AND WALL PANELS TO THE DEPARTMENT FOR REVIEW PRIOR TO CONSTRUCTION.

DESIGN LOADING

GROUND SNOW LOAD (P_g) = 100 PSF
SNOW EXPOSURE FACTOR (C_e) = 1.0
SNOW LOAD IMPORTANCE FACTOR (I_s) = 1.0
THERMAL FACTOR (C_t) = 1.1
FLAT ROOF SNOW LOAD (P_f) = 77 PSF + DRIFT

WIND SPEED: 115 MPH

ABBREVIATIONS

AB	ANCHOR BOLT	L	ANGLE
ADDL	ADDITIONAL	LL	DOUBLE ANGLE
ARCH	ARCHITECT	LB	POUND
&	AND	LF	LINEAR FOOT
		LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
B/FTG, BOF	BOTTOM OF FOOTING		
BLDG	BUILDING	MAX	MAXIMUM
BM	BEAM	MECH	MECHANICAL
BOT	BOTTOM	MFR	MANUFACTURER
BRG	BEARING	MIN	MINIMUM
BTWN	BETWEEN	MISC	MISCELLANEOUS
C	STRUCTURAL STEEL CHANNEL		
CANT	CANTILEVER	NF	NEAR FACE
CIP	CAST-IN-PLACE CONCRETE	NO	NUMBER
CJ	CONTROL JOINT	NS	NEAR SIDE
CL	CENTERLINE	NTS	NOT TO SCALE
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CNJ	CONSTRUCTION JOINT	OF	OUTSIDE FACE
COL	COLUMN	OPNG	OPENING
CONC	CONCRETE	OPP	OPPOSITE
CONN	CONNECTION		
CONT	CONTINUOUS	P	PIER DESIGNATION
CONTR	CONTRACTOR	PL	PLATE
CP	COMPLETE PENETRATION WELD	PP	PARTIAL PENETRATION WELD
CY	CUBIC YARD	PREFAB	PREFABRICATED
		PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	REINF	REINFORCING STEEL
DIM	DIMENSION	REQ, REQD	REQUIRED
DISCONT	DISCONTINUOUS	RD	ROOF DRAIN
DWG	DRAWING		
(E), EX, EXIST	EXISTING	SC	SLIP CRITICAL
EA	EACH	SECT	SECTION
EF	EACH FACE	SHEATH	SHEATHING
EL, ELEV	ELEVATION	SIM	SIMILAR
EQ	EQUAL	SOG	SLAB-ON-GRADE
EQUIP	EQUIPMENT	SPAC	SPACING
ES	EACH SIDE	SPECS	SPECIFICATIONS
EW	EACH WAY	SS	STAINLESS STEEL
EXP	EXPANSION	STD	STANDARD
EXT	EXTERIOR	STIFF	STIFFENER
		STL	STEEL
F	FOOTING DESIGNATION	STR	STRAIGHT
FDN	FOUNDATION	STRUCT	STRUCTURAL
FF	FINISH FLOOR		
FLG	FLANGE	T	TOP
FLR	FLOOR	T&B	TOP AND BOTTOM
FT	FOOT	TOC, T/CONC	TOP OF CONCRETE
FTG	FOOTING	T/FTG, TOF	TOP OF FOOTING
FV	FIELD VERIFY	TEMP	TEMPERATURE
		T/SHELF	TOP OF SHELF
G	GAGE	T/SLAB	TOP OF SLAB
GALV	GALVANIZED	T/STL	TOP OF STEEL
		T/WALL	TOP OF WALL
HOR, HORIZ	HORIZONTAL	TS	STRUCTURAL TUBING
HSS	HOLLOW STRUCTURAL SHAPE	TYP	TYPICAL
HT	HEIGHT		
		UNO	UNLESS NOTED OTHERWISE
IF	INSIDE FACE		
IN	INCH	VER, VERT	VERTICAL
INFO	INFORMATION	VIF	VERIFY IN FIELD
JT	JOINT		
		W	STRUCTURAL STEEL WIDE FLANGE
K	KIP (1 KIP = 1,000 LBS)	W/O	WITH
KSI	KIPS PER SQUARE INCH	WP	WITHOUT
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

LEGEND

SLOPE DESIGNATION		UNDISTURBED EARTH	
ELEVATION MARK		LEDGE	
ROOF PITCH		COMPACTED STRUCTURAL FILL	
SPAN DIRECTION		CONCRETE	
SECTION MARK		GROUT	
	SECTION No. _____ DWG. WHERE SHOWN _____	BRICK	
		CMU	

PREPARED FOR:

STATE OF MAINE DOT

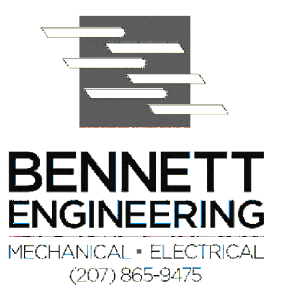
Fort Fairfield Truck Storage and Crew Quarters

86 S Caribou Rd, Fort Fairfield, Maine

WIN 27323.00



David Matero
Architect
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2818
www.cascobayengineering.com



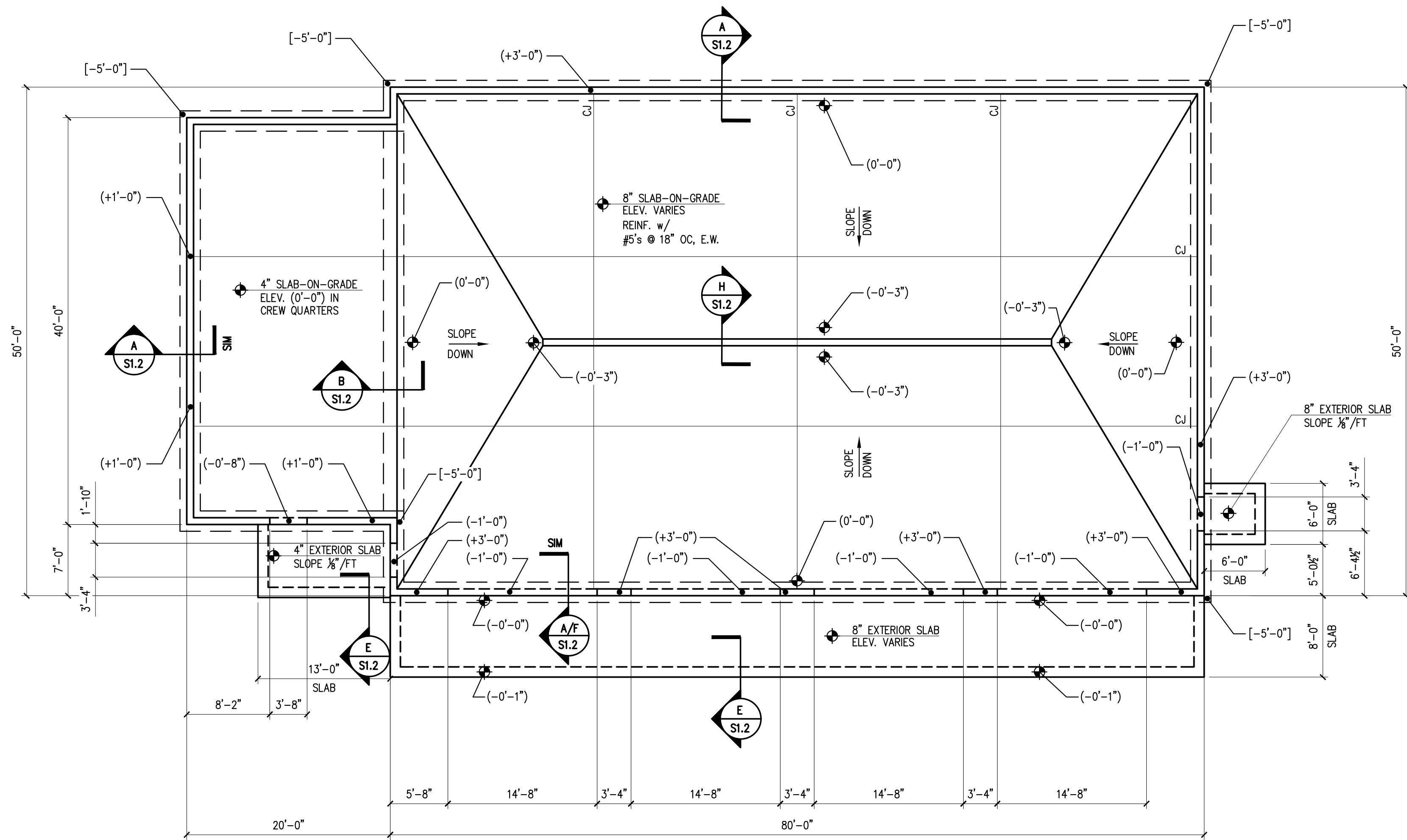
DATE	03.31.21	ME 12650	03.31.21	DATE
BY	DL	ED		
DESIGN/DETAILED				
CHECKED/REVIEWED				
REVISION 1				
REVISION 2				
REVISION 3				
FIELD CHANGES				

STRUCTURAL NOTES

ISSUED FOR BID

SHEET NUMBER

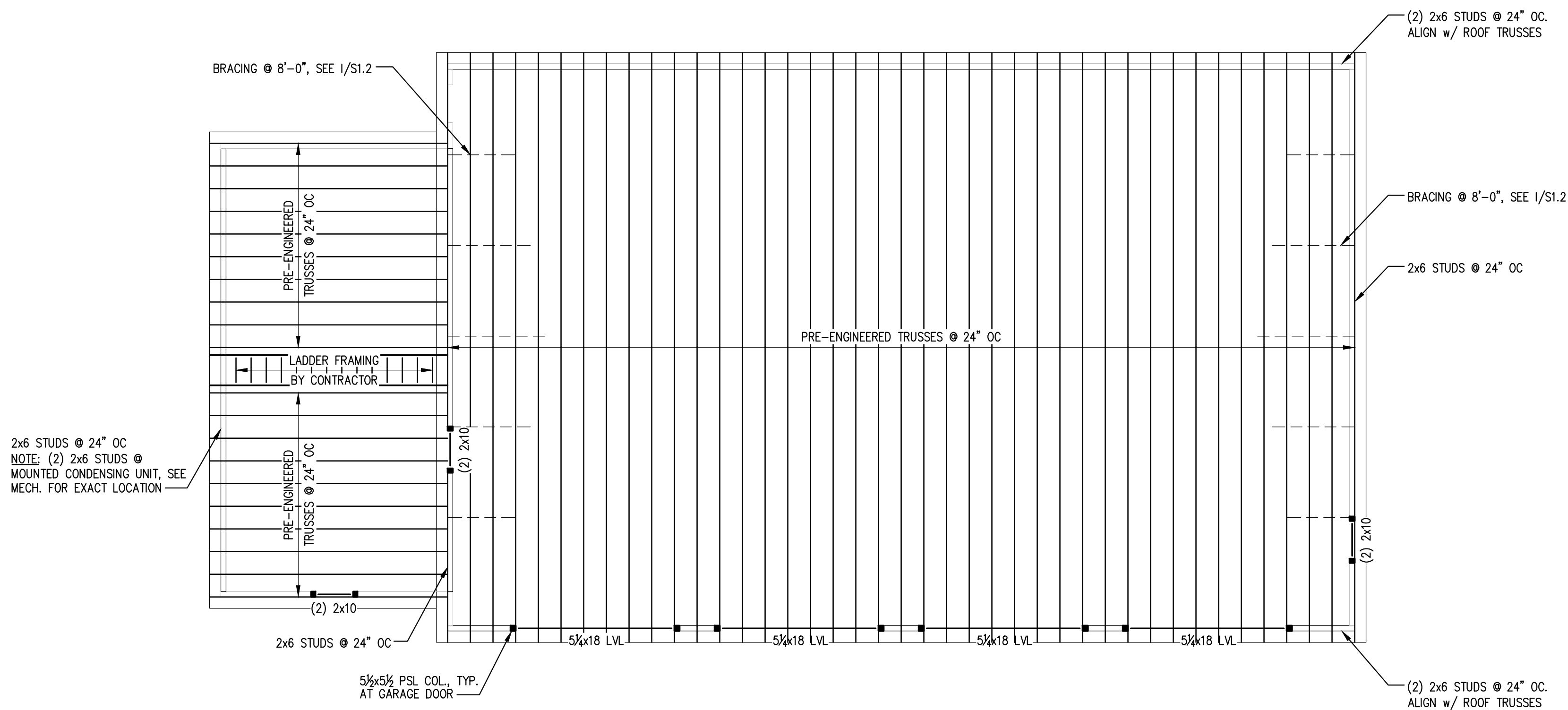
S1.0



FOUNDATION PLAN

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

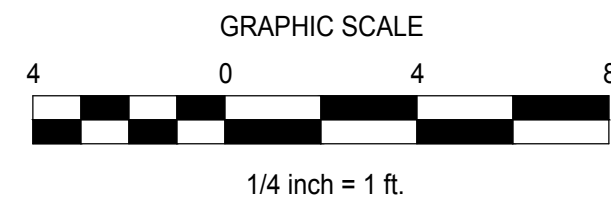
- FOUNDATION NOTES:
1. SEE DETAIL G/S1.2 FOR TYPICAL SLAB-ON-GRADE.
 2. REFERENCE CREW QUARTERS SLAB-ON-GRADE ELEVATION = 0'-0".
 3. TOP OF CONCRETE WALL ELEVATIONS ARE NOTED (+X'-X") FROM CREW QUARTERS SLAB-ON-GRADE ELEVATION.
 4. TOP OF FOOTING ELEVATIONS ARE NOTED [-X'-X"] FROM CREW QUARTERS SLAB-ON-GRADE ELEVATION.
 5. CJ DENOTES CONTROL JOINT.



ROOF FRAMING PLAN

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

- NOTES:
1. WINDOW HEADERS SHALL BE (2)-2x10's U.N.O. PER D/S1.3
 2. PROVIDE (3)-2x6 COLUMNS, U.N.O.
 3. ALL EXTERIOR WALLS SHALL BE SHEATHED ON INTERIOR SIDE WITH 1/2" APA RATED SHEATHING.
 4. NAIL EXTERIOR SHEATHING PANEL EDGES @ 4"o.c. BLOCK AND STAGGER ALL PANEL EDGES.
 5. SPACE NAILS AT 12" o.c. AT INTERMEDIATE PANEL EDGES.



STRUCTURAL PLANS

ISSUED FOR BID

SHEET NUMBER

S1.1

PREPARED FOR:

STATE OF MAINE DOT

Fort Fairfield Truck Storage and Crew Quarters

86 S Caribou Rd, Fort Fairfield, Maine

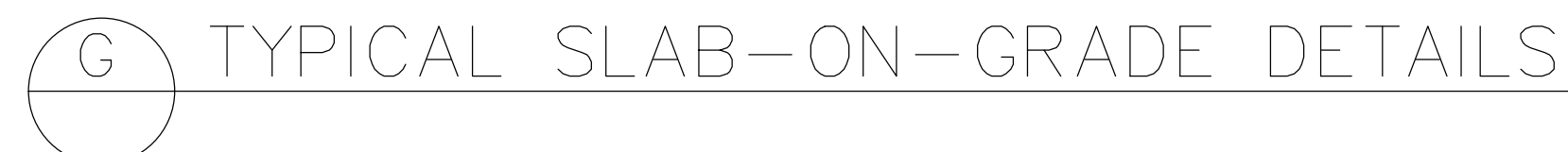
WIN 27323.00

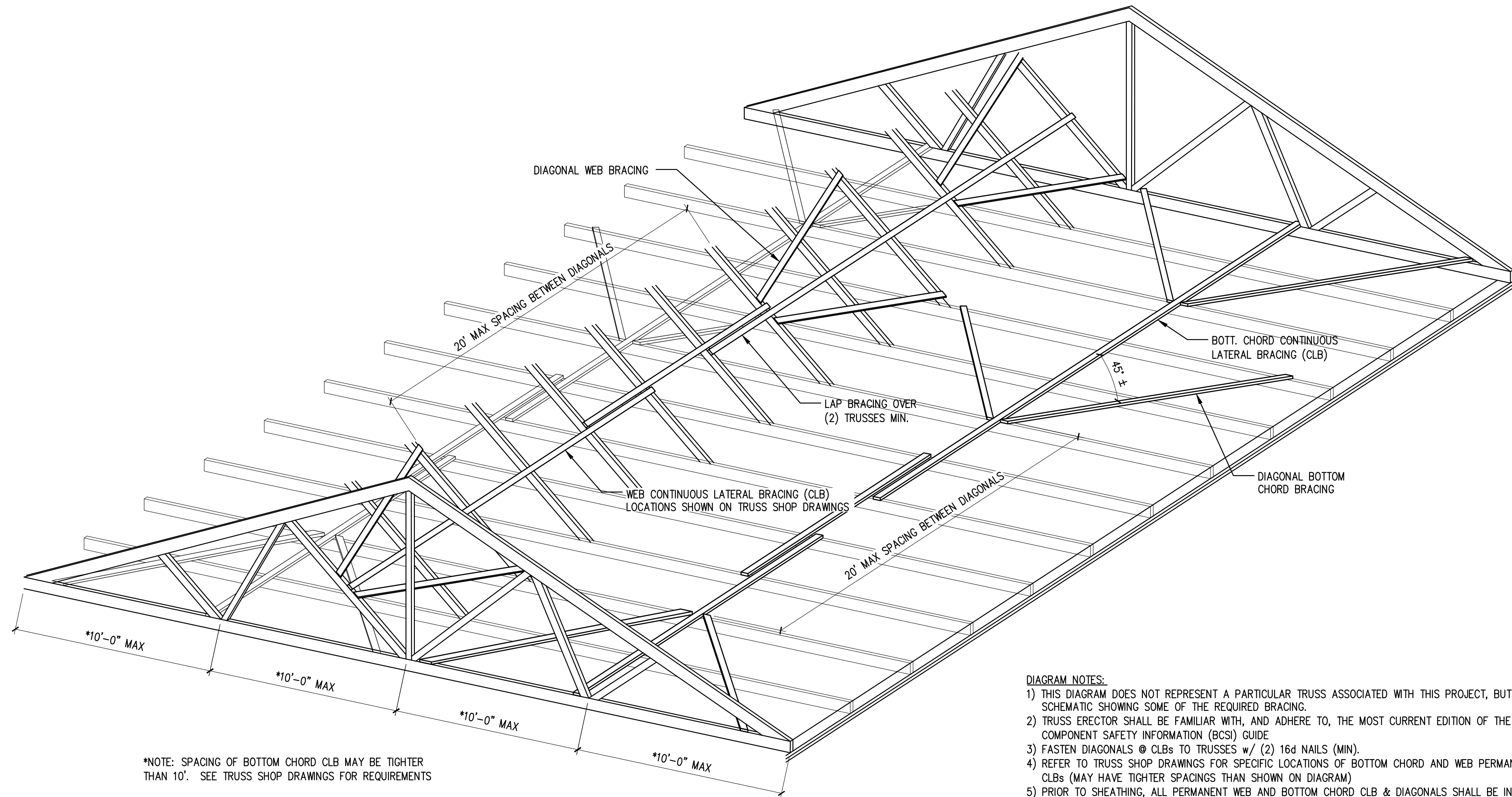
CASCO BAY ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2808
www.cascobayengineering.com

David Matero
Architect
40 Centre St
South Portland, ME 04106
207.864.4216
info@materoarchitect.com

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

DESIGN/DETAILED	CHECKED/REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
DATE	DATE	DATE	DATE	DATE	DATE
03.31.21	03.31.21				
BY	DL	ED			
ME 12630	PE NUMBER	03.31.21	DATE		





*NOTE: SPACING OF BOTTOM CHORD CLB MAY BE TIGHTER THAN 10'. SEE TRUSS SHOP DRAWINGS FOR REQUIREMENTS

- DIAGRAM NOTES:
- 1) THIS DIAGRAM DOES NOT REPRESENT A PARTICULAR TRUSS ASSOCIATED WITH THIS PROJECT, BUT IS A SCHEMATIC SHOWING SOME OF THE REQUIRED BRACING.
 - 2) TRUSS ERECTOR SHALL BE FAMILIAR WITH, AND ADHERE TO, THE MOST CURRENT EDITION OF THE BUILDING COMPONENT SAFETY INFORMATION (BCSI) GUIDE
 - 3) FASTEN DIAGONALS @ CLBS TO TRUSSES w/ (2) 16d NAILS (MIN).
 - 4) REFER TO TRUSS SHOP DRAWINGS FOR SPECIFIC LOCATIONS OF BOTTOM CHORD AND WEB PERMANENT CLBS (MAY HAVE TIGHTER SPACINGS THAN SHOWN ON DIAGRAM)
 - 5) PRIOR TO SHEATHING, ALL PERMANENT WEB AND BOTTOM CHORD CLB & DIAGONALS SHALL BE INSTALLED.
 - 6) TOP CHORD TEMPORARY BRACING IS SIMILAR TO THIS DIAGRAM, BUT HAS MORE STRINGENT BRACING REQUIREMENTS – SEE BCSI FOR DETAILS.
 - 7) WHERE DIAGONAL BRACES CROSS, INTERRUPT (1) BRACE AND ADD A 4 FT. LONG 2x4 SPLICE OVER THE INTERRUPTED BRACE. ATTACH SPLICE TO EACH SIDE w/ (8) 16d NAILS (MIN)

- PREFABRICATED WOOD TRUSS NOTES:**
1. FABRICATE, SUPPLY AND ERECT WOOD TRUSS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. WORK TO INCLUDE ANCHORAGE, BLOCKING, CURBING, MISCELLANEOUS FRAMING AND BRACING.
 2. SEE ARCHITECTURAL DRAWINGS FOR ALL TRUSS PROFILES AND DIMENSIONS.
 3. ROOF TRUSSES SHALL BE DESIGNED FOR:
TOP CHORD DEAD LOAD – 10 PSF
TOP CHORD SNOW LOAD – 77 PSF* (BALANCED)
BOTTOM CHORD DEAD LOAD – 5 PSF
BOTTOM CHORD LIVE LOAD – 0 PSF
* CONSIDER UNBALANCED SNOW LOAD PER ASCE 7-10
 4. GABLE END TRUSSES SHALL HAVE VERTICALS AT 16" o.c. CALCULATE WIND LOADS PER CRITERIA INDICATED IN THE DRAWINGS AND NOTES
 5. ALLOWABLE DEFLECTION FOR PREFABRICATED TRUSSES:
ROOF LIVE = L/240
ROOF TOTAL = L/180
 6. TRUSS MANUFACTURER SHALL SUBMIT DRAWINGS INDICATING THE FOLLOWING:
A. SPAN, SLOPE AND SPACING OF TRUSSES
B. REQUIRED BEARING WIDTH
C. DESIGN LOADS, AS APPLICABLE:
i. TOP CHORD LIVE LOAD
ii. TOP CHORD DEAD LOAD
iii. BOTTOM CHORD LIVE LOAD
iv. BOTTOM CHORD DEAD LOAD
v. CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION
vi. WIND AND SEISMIC CRITERIA
D. REACTIVE FORCES
E. LUMBER SIZE, SPECIES AND GRADE FOR EACH MEMBER
F. LOCATION OF ANY REQUIRED CONTINUOUS LATERAL BRACING (CLB)
G. CALCULATED DEFLECTION RATIO AND/OR MAXIMUM DEFLECTION FOR LIVE AND TOTAL LOAD
H. CONNECTION REQUIREMENTS FOR:
i. TRUSS TO TRUSS GIRDER
ii. TRUSS PLY TO PLY
iii. FIELD SPLICES
I. DESIGN, SPECIFY & SUPPLY TRUSS HANGERS FOR ALL TRUSS TO TRUSS CONNECTIONS
 7. TRUSSES SHALL BE FABRICATED IN A PROPERLY EQUIPPED MANUFACTURING FACILITY OF A PERMANENT NATURE. TRUSSES SHALL BE MANUFACTURED BY EXPERIENCED WORKMEN, USING PRECISION CUTTING, JOING AND PRESSING EQUIPMENT MEETING REQUIREMENTS OF ANSI/TPI 1-1995, SECTION 4. TRUSS MEMBERS SHALL BE ACCURATELY CUT TO LENGTH ANGLE AND TRUE TO LINE TO ASSURE PROPER FITTING JOINTS WITHIN TOLERANCES SET FORTH IN ANSI/TPI 1-1995, SECTION 4, AND PROPER FIT WITH OTHER WORK.
 8. FOLLOW TRUSS MANUFACTURERS RECOMMENDATIONS & LATEST EDITION OF THE BCSI FOR HANDLING, INSTALLATION AND BRACING OF TRUSSES. ERECTION OF TRUSSES IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CONSULT TRUSS MANUFACTURER OR INDEPENDENT ENGINEER IF FURTHER DESIGN ASSISTANCE IS NEEDED.
 9. MANUFACTURER SHALL FURNISH DESIGN DRAWINGS BEARING SEAL AND REGISTRATION NUMBER OF A CIVIL OR STRUCTURAL ENGINEER LICENSED IN STATE WHERE TRUSSES ARE TO BE INSTALLED. DRAWINGS SHALL BE APPROVED BY ARCHITECT OR STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.

STATE OF MAINE DOT

Fort Fairfield Truck Storage and Crew Quarters

86 S Caribou Rd, Fort Fairfield, Maine

WIN 27323.00

CASCO BAY
ENGINEERING

424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2808
www.cascobayengineering.com

David Matero

Architecture

49 Canby St
Portland, Maine 04101
501.589.4278
dmatero@me.com

BENNETT
ENGINEERING

MECHANICAL • ELECTRICAL
2007/06/26/05

DESIGN/DETAILED	CHECKED/REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

DATE	BY	DATE	BY
03.31.21	DL	03.31.21	ED

ME 12630

PE NUMBER

03.31.21

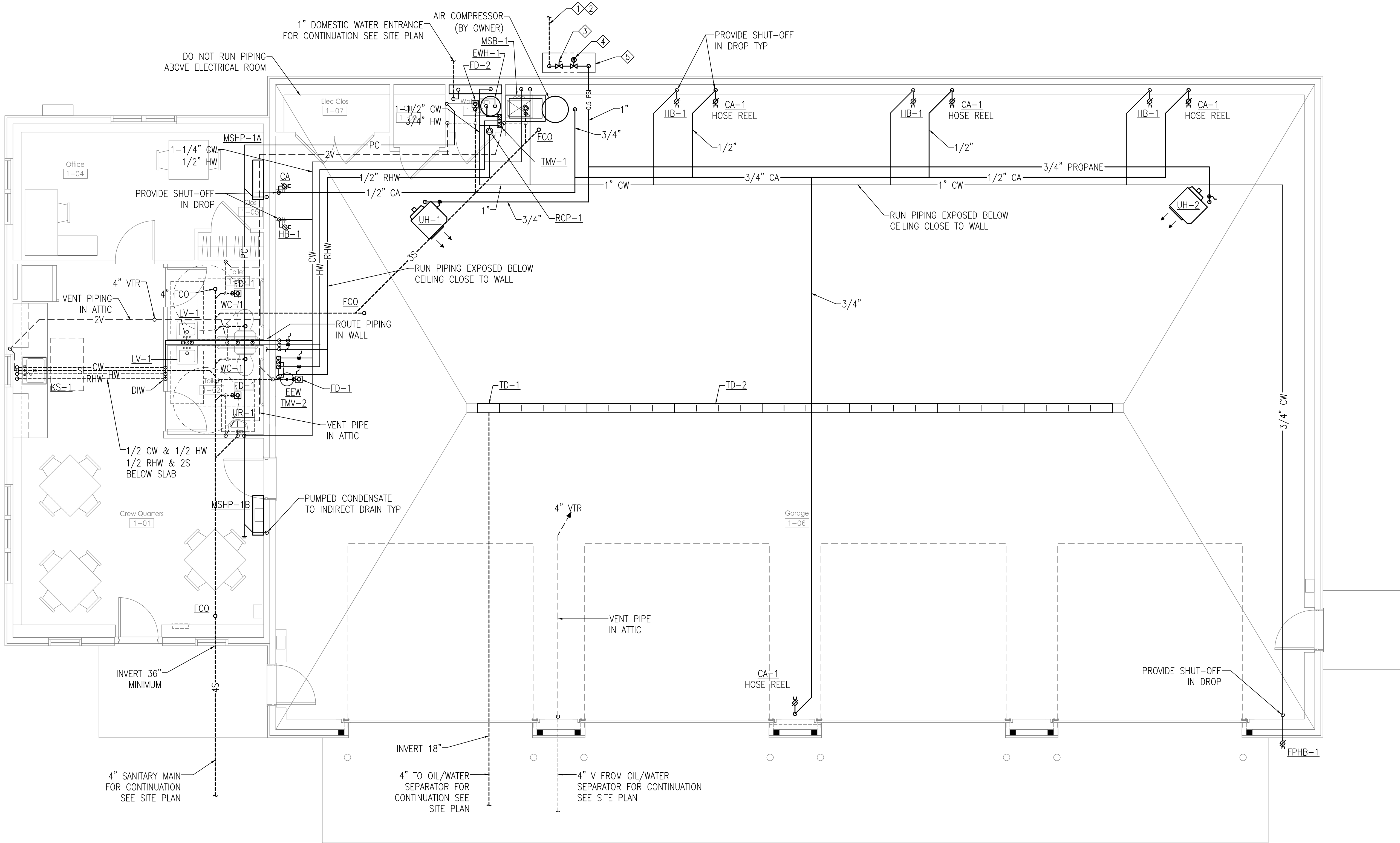
DATE

ROOF TRUSS PROVISIONS

ISSUED FOR BID

SHEET NUMBER

S1.3



GENERAL PLUMBING NOTES:

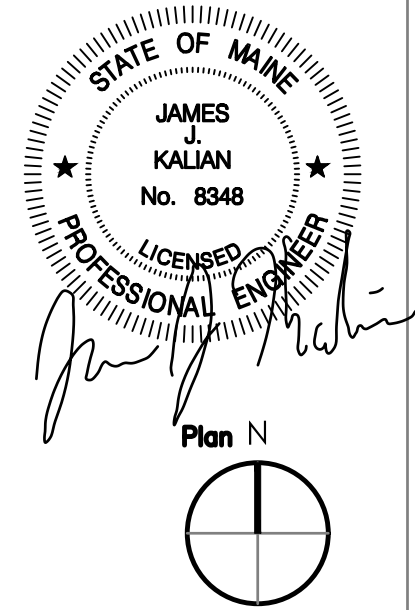
1. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED WORK IN ALL AFFECTED AREAS AND COORDINATE INSTALLATION OF EQUIPMENT, FIXTURES, AND PIPING AS INDICATED.
2. PITCH SANITARY DRAIN PIPING DOWN IN THE DIRECTION OF FLOW 1/4" PER FOOT UNLESS OTHERWISE NOTED.
3. MINIMUM PIPE SIZE BELOW SLAB IS 2".
4. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHEN REQUIRED.
3. REFER TO PLUMBING SCHEDULES FOR FIXTURE & EQUIPMENT BRANCH PIPE SIZES.

GROUND FLOOR PLUMBING PLAN

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

PLUMBING NUMBERED NOTES:

- ① UNDERGROUND PROPANE SERVICE LINE FROM TYPE K COPPER OR POLYETHYLENE TUBING.
- ② 10.0 PSI PROPANE FROM LPG STORAGE TANK(S) BY OTHERS. CAPACITY = 500 MBH.
- ③ GAS RISER SHUTOFF VALVE.
- ④ SECOND STAGE GAS PRESSURE REGULATOR (10.0PSI TO 0.5 PSI) WITH VENT SKIRT PROTECTOR.
- ⑤ FUEL GAS RISER / REGULATOR INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS AND THE AUTHORITY HAVING JURISDICTION.



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



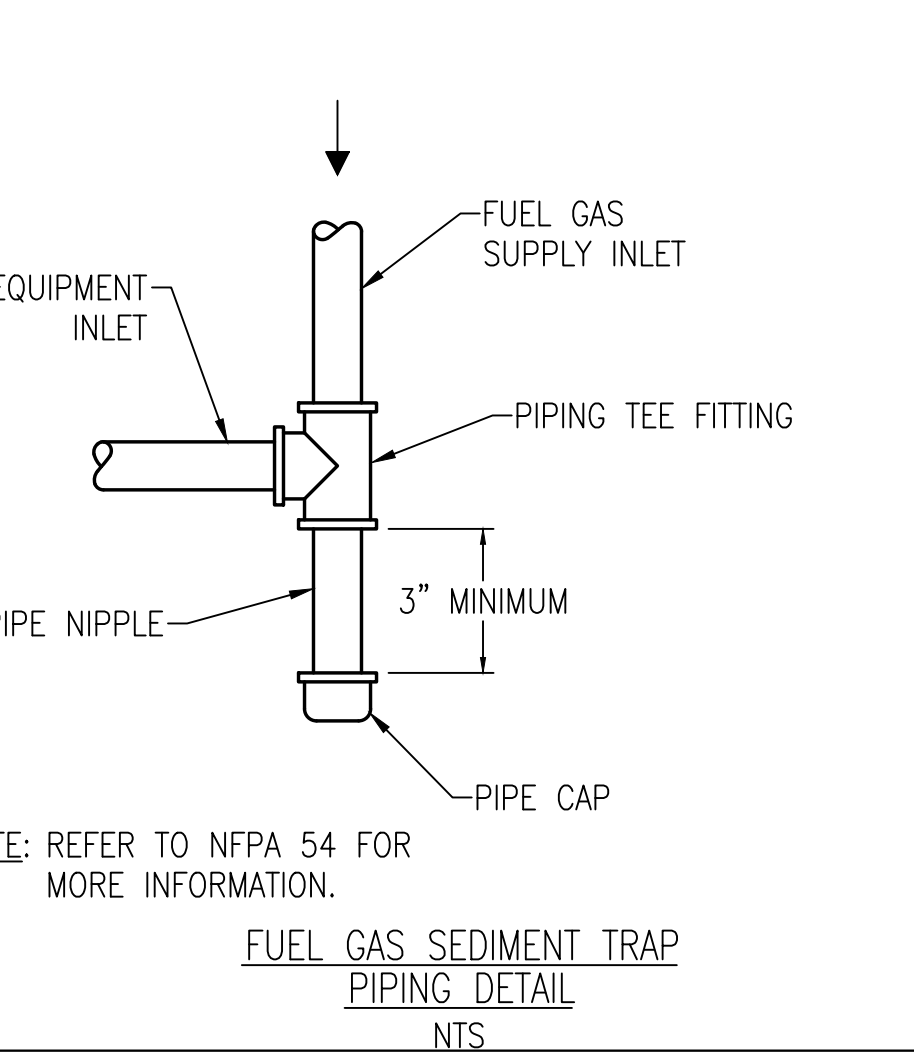
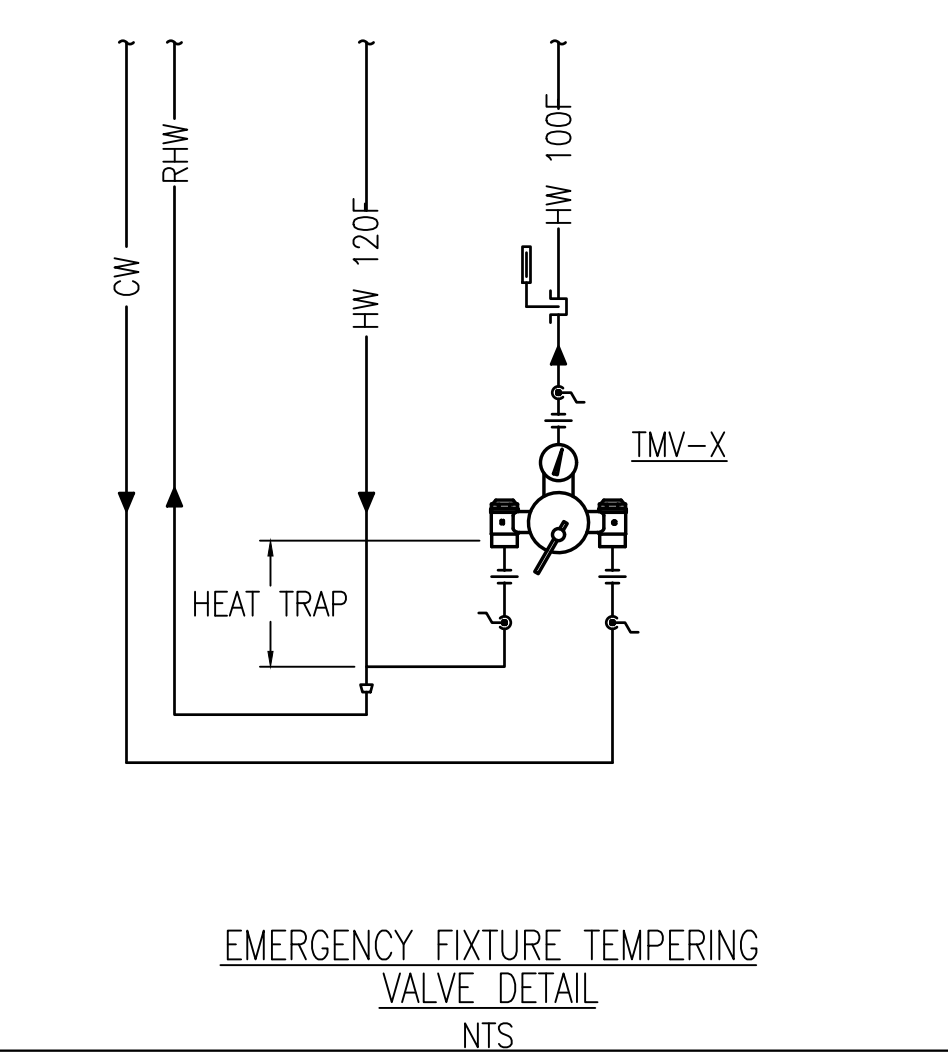
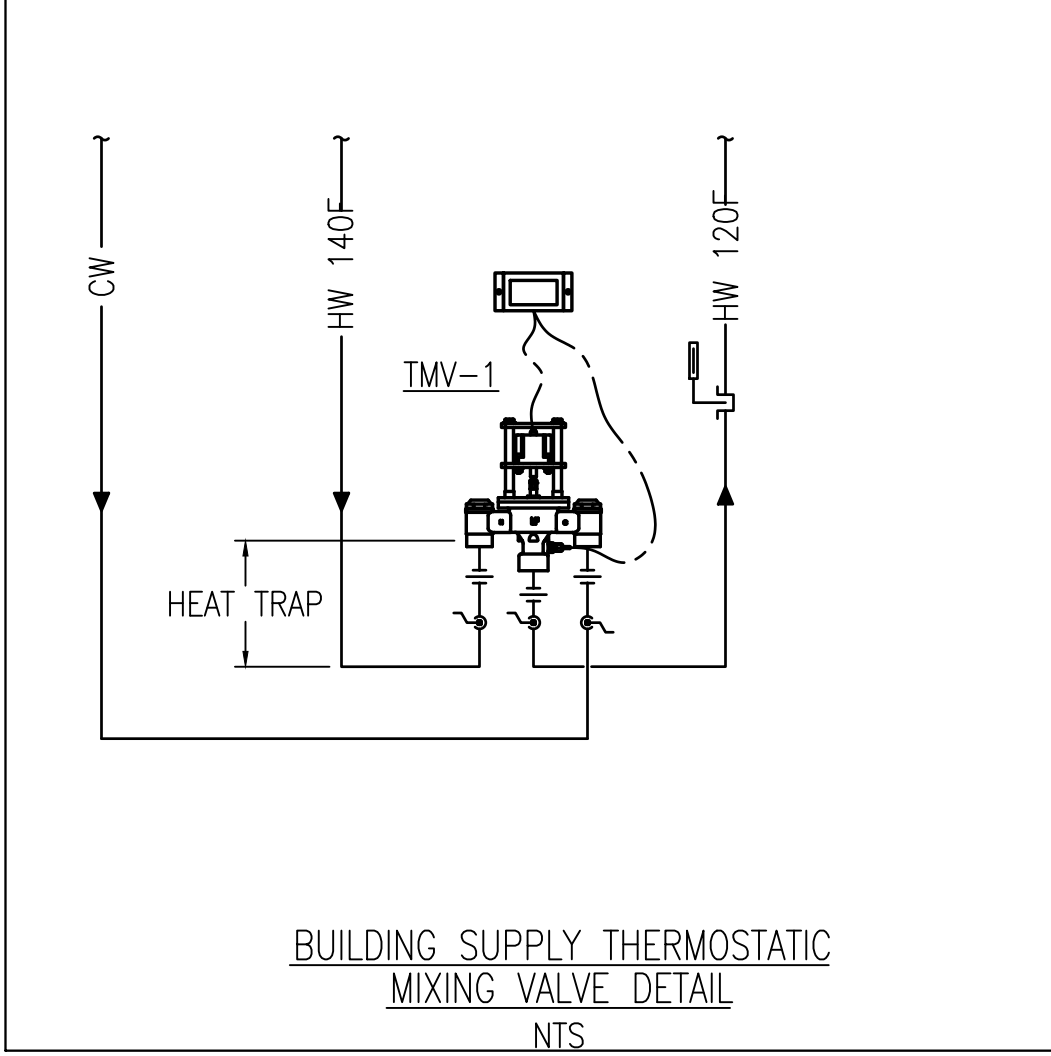
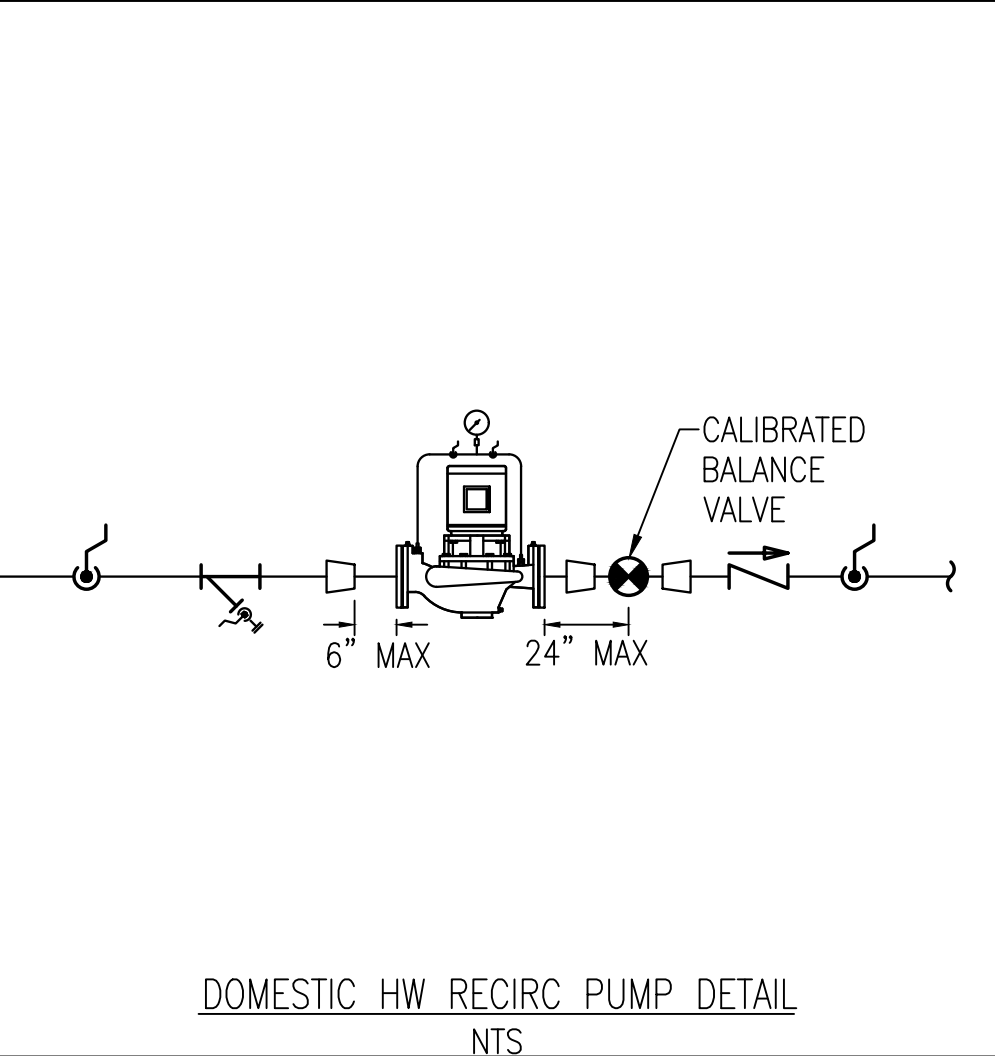
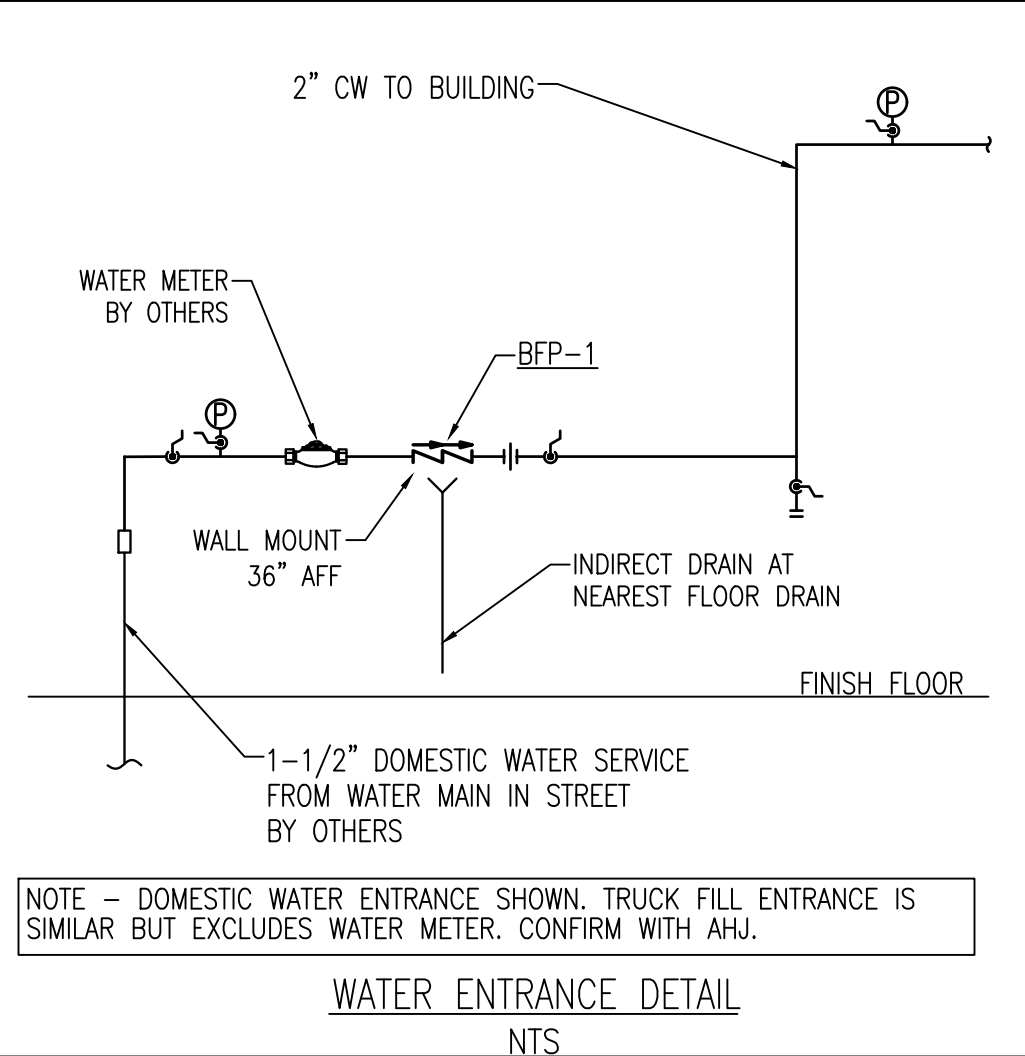
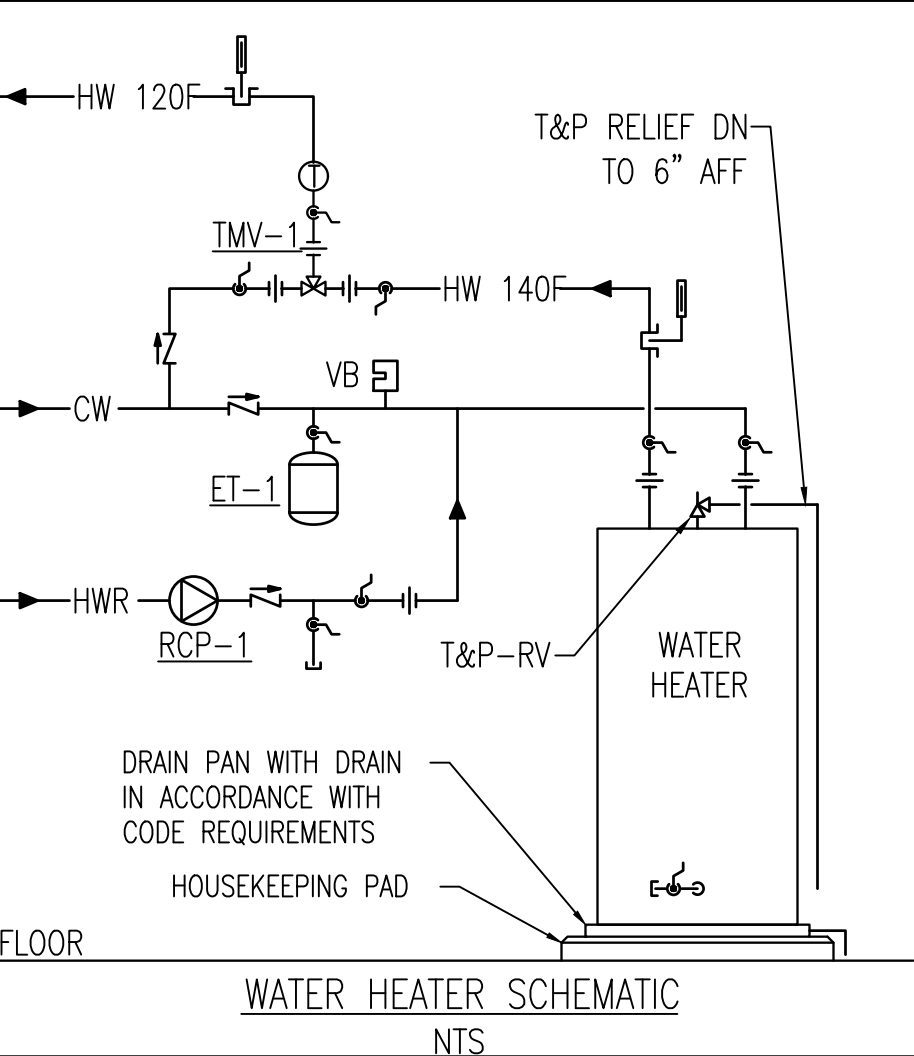
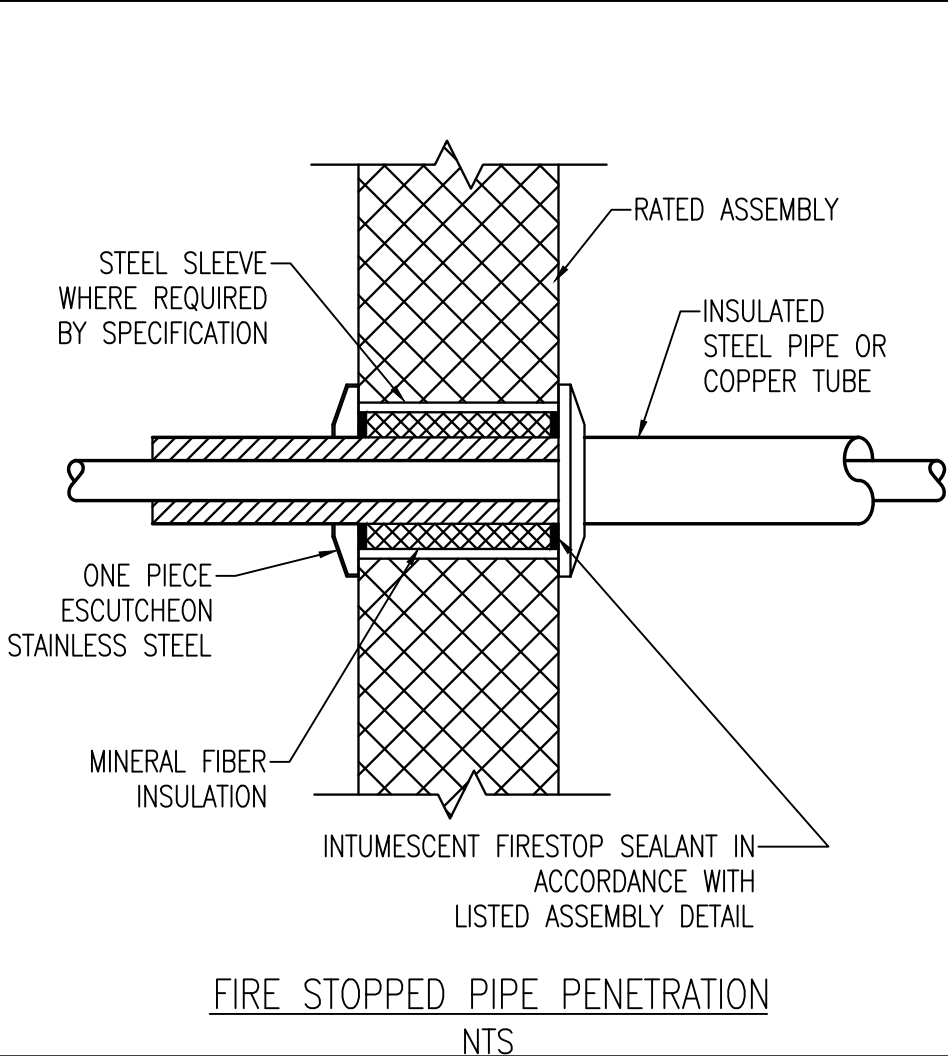
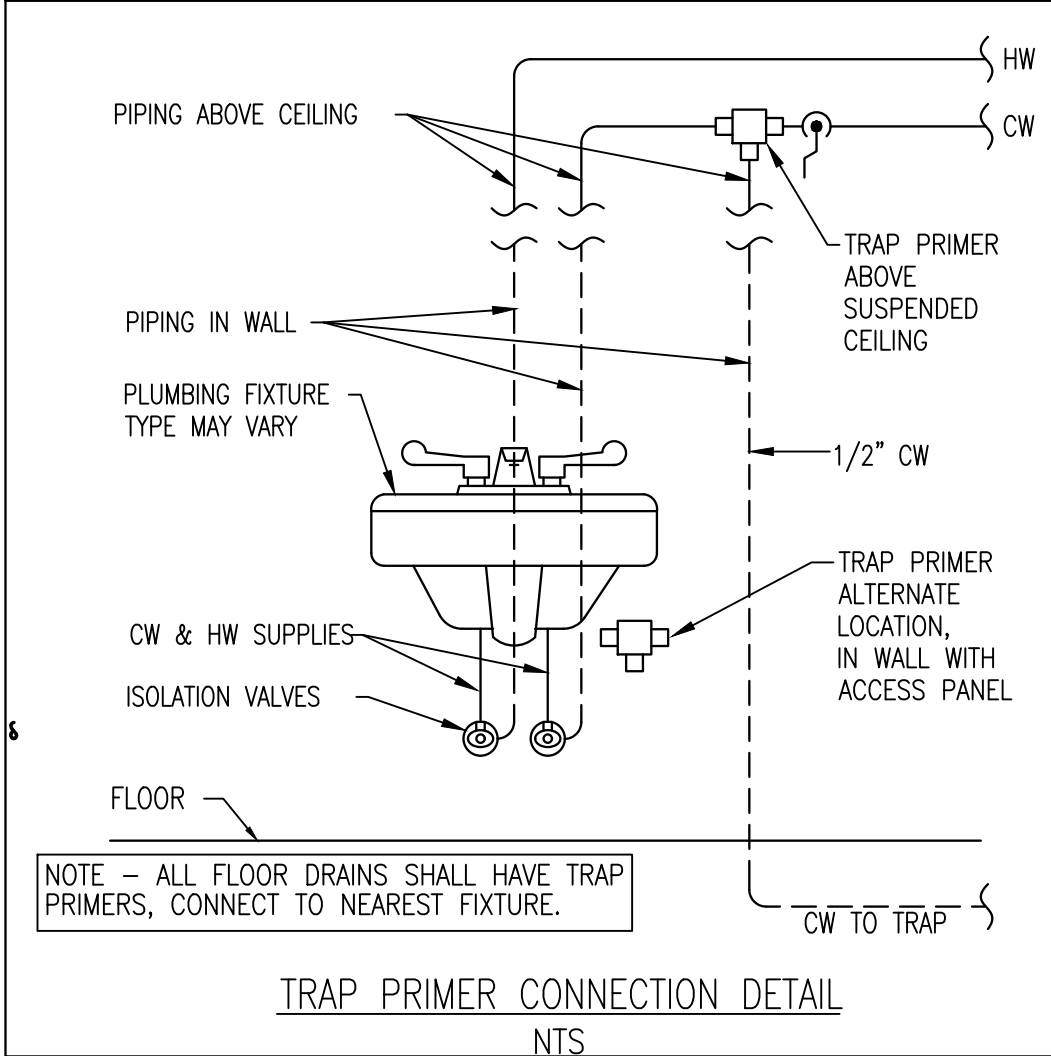
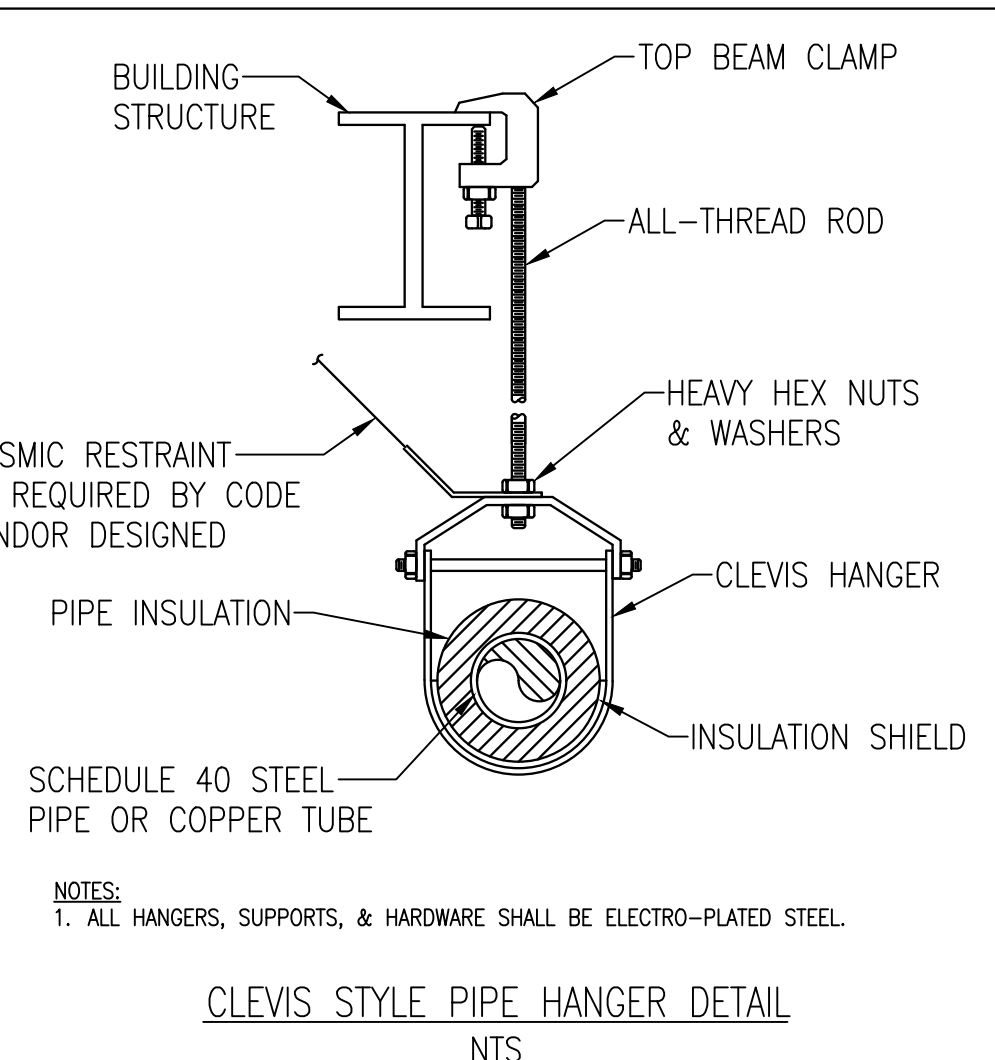
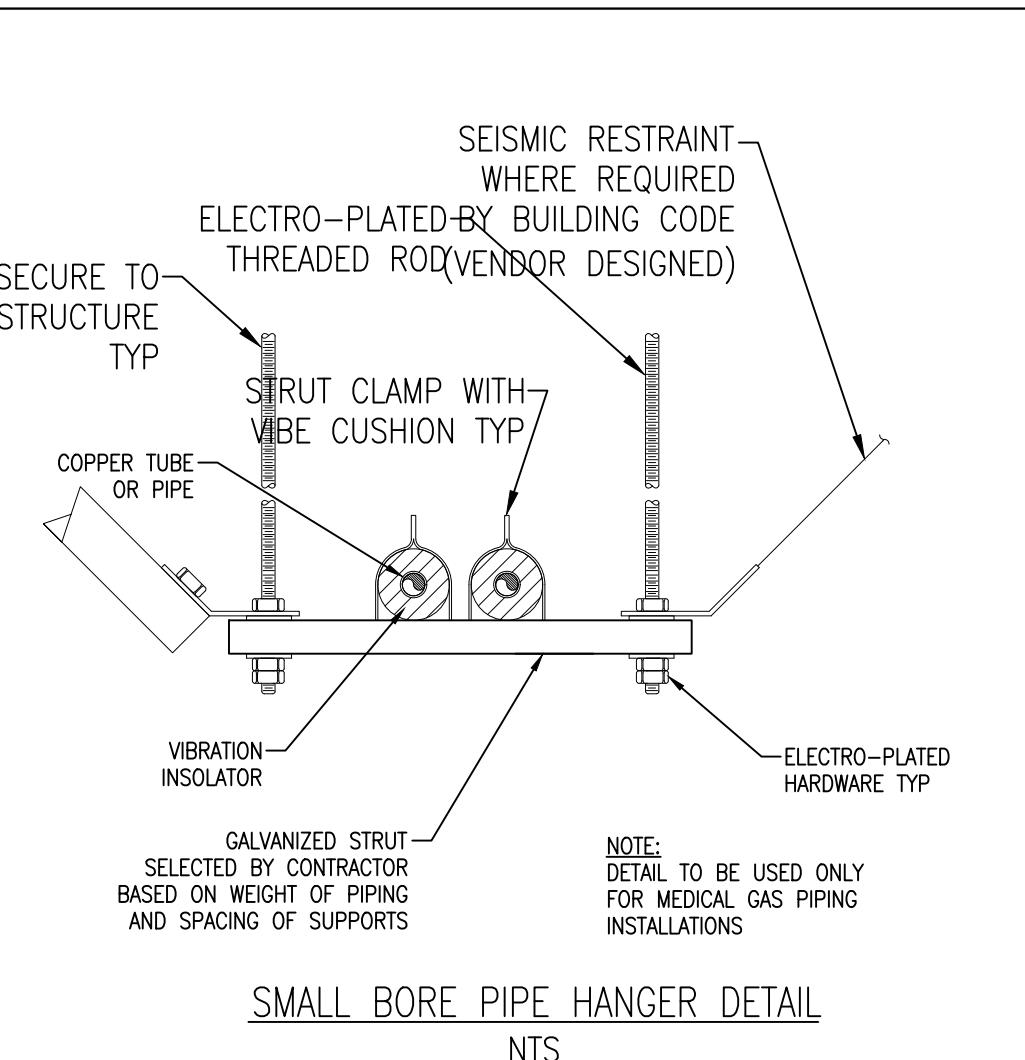
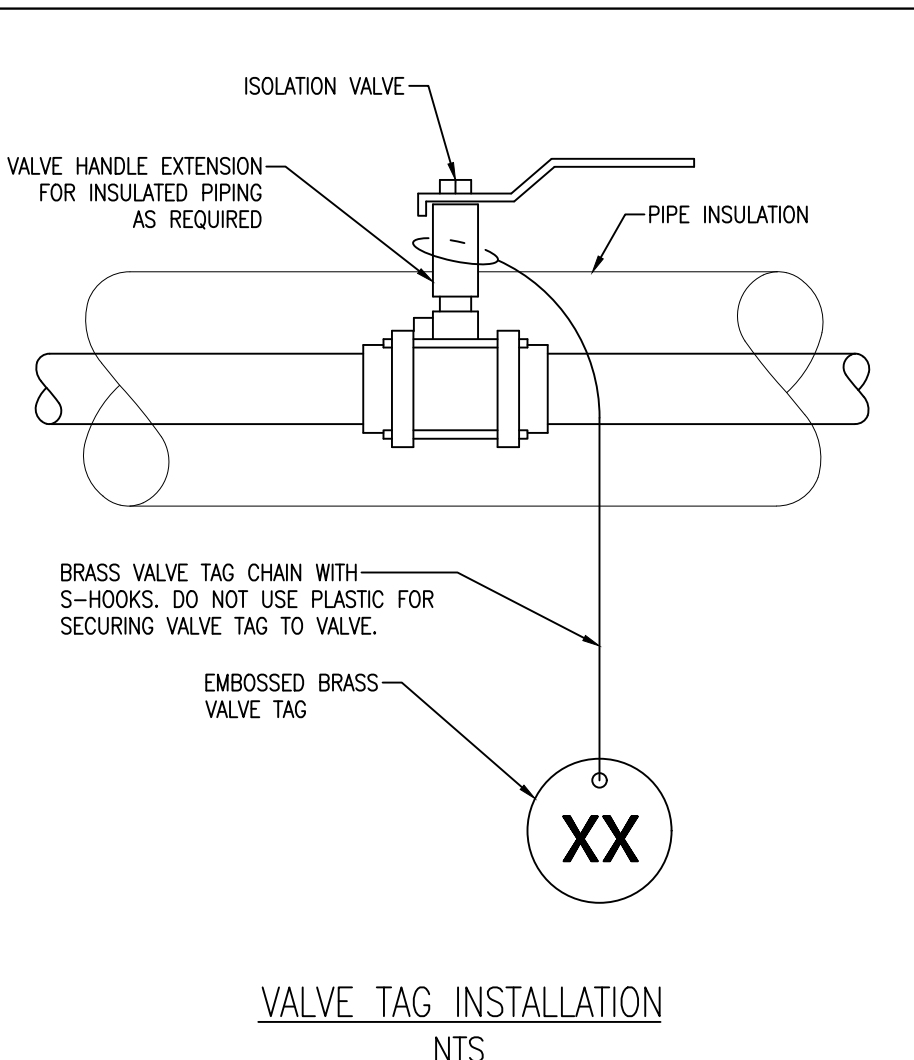
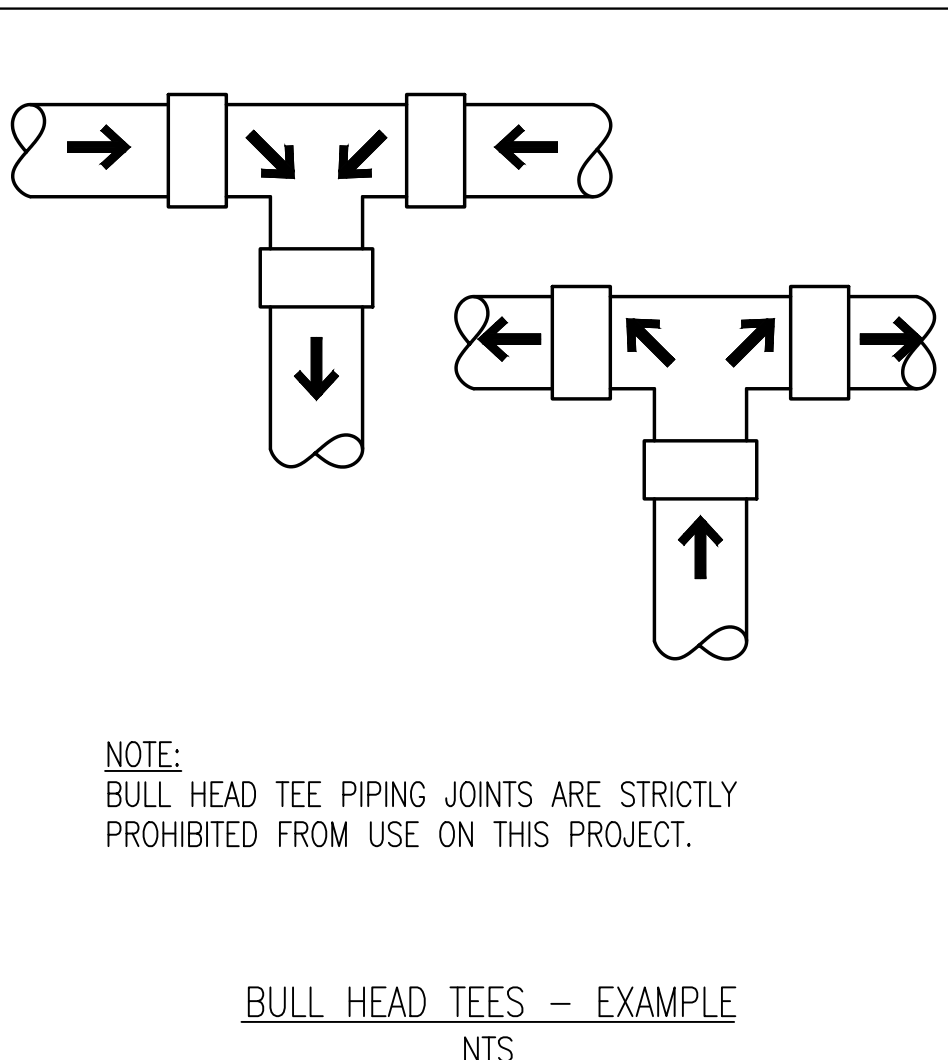
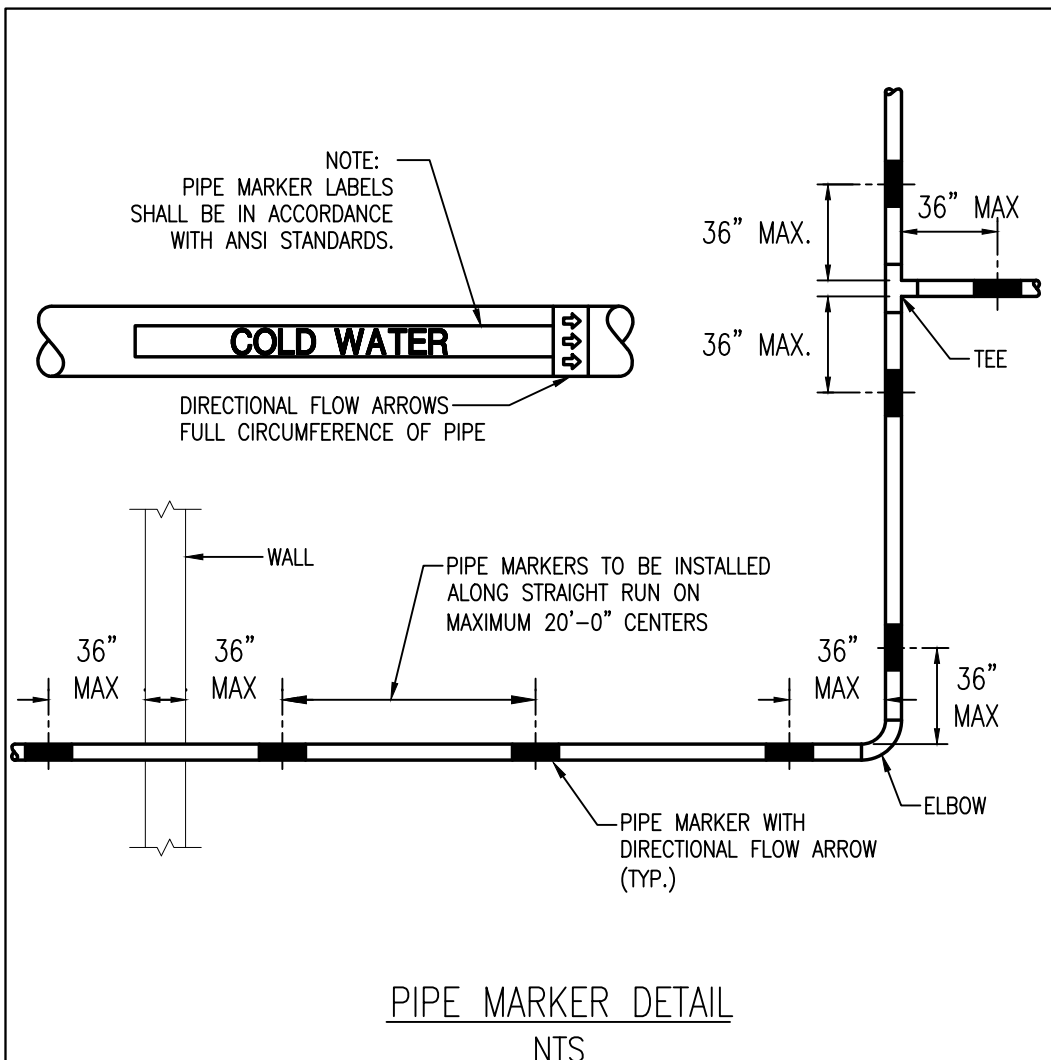
David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

DATE	BY	DATE	BY	DATE	BY
03.31.21	STS	03.31.21	DSM	04.16.21	OT
03.31.21	ME	03.31.21	OT	03.31.21	OT
03.31.21	PE	03.31.21	OT	03.31.21	OT
03.31.21	PE	03.31.21	OT	03.31.21	OT
03.31.21	PE	03.31.21	OT	03.31.21	OT

PLUMBING PLAN
ISSUED FOR BID
SCALE: AS SHOWN

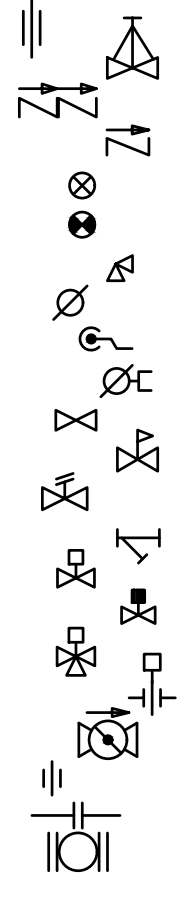
SHEET NUMBER

P-100

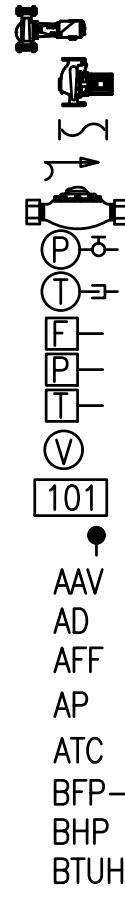


MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND
NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET.

- CA COMPRESSED AIR PIPING
- C CONDENSATE DRAIN PIPING
- FOR FUEL OIL RETURN PIPING
- FOS FUEL OIL SUPPLY PIPING
- G GAS PIPING
- SANITARY PIPING BELOW FLOOR (SAN)
- SANITARY PIPING ABOVE FLOOR (SAN)
- SANITARY VENT PIPING
- RAINWATER LEADER ABOVE SLAB
- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- RECIRCULATED HOT WATER PIPING (RHW)
- FM FORCE MAIN (PRESSURIZED DISCHARGE)
- PIPE CAP
- DIRECTION OF FLUID FLOW
- ELBOW UP
- ELBOW DOWN
- PIPE TEE UP
- PIPE TEE DOWN
- PIPE REDUCER
- PIPE WITH GUIDE
- PIPE WITH ANCHOR



- BUTTERFLY VALVE
- OS & Y GATE VALVE
- BACKFLOW PREVENTER (BFP)
- CHECK VALVE
- BALANCING VALVE (ADJUSTABLE)
- AUTOMATIC FLOW CONTROL VALVE
- RELIEF VALVE (RV)
- BALL VALVE
- BALL VALVE
- 3/4" BALL VALVE WITH 3/4" HOSE END
- GATE VALVE
- PRESSURE REDUCING VALVE
- FUSIBLE VALVE
- STRAINER W/BLOWDOWN BALL VALVE
- 2-WAY CONTROL VALVE
- SOLENOID VALVE
- 3-WAY CONTROL VALVE
- BUTTERFLY VALVE W/ACTUATOR
- TRIPLE-DUTY VALVE
- UNION
- PIPE FLANGE
- PUMP WITH FLANGES



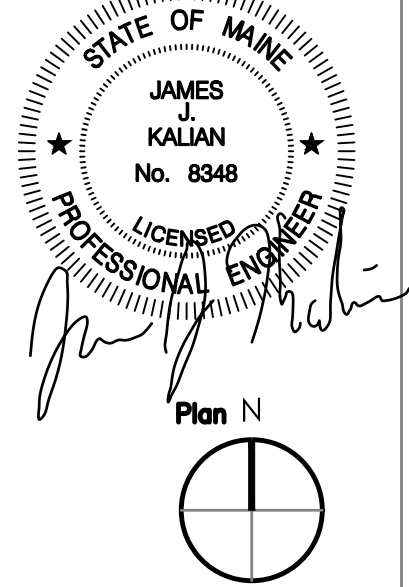
- CARTRIDGE TYPE INLINE PUMP
- VERTICAL INLINE PUMP
- FLEXIBLE PIPE CONNECTION
- PITCH DOWN
- FLOW METER
- PRESSURE GAGE WITH GAGE COCK
- THERMOMETER IN WELL
- WATER FLOW SWITCH
- PRESSURE SWITCH OR SENSOR
- IMMERSION TEMPERATURE SENSOR
- MANUAL AIR VENT
- ROOM NUMBER
- WATER HAMMER ARRESTOR
- AUTOMATIC AIR VENT
- ACCESS DOOR
- ABOVE FINISHED FLOOR
- ACCESS PANEL
- AUTOMATIC TEMPERATURE CONTROL
- BACKFLOW PREVENTER TAG
- BRAKE HORSEPOWER
- BRITISH THERMAL UNITS PER HOUR

- CO CLEANOUT
- Cv VALVE COEFFICIENT
- CW COLD WATER
- D/ TO BE DEMOLISHED
- DC DOUBLE CHECK
- DCA DOUBLE CHECK ATMOSPHERIC
- DEG F DEGREES FAHRENHEIT
- DIA DIAMETER
- DIW DOWN IN WALL
- DN DOWN
- E/ EXISTING TO REMAIN
- EER ENERGY EFFICIENCY RATIO
- EFF EFFICIENCY
- ET-# EXPANSION TANK TAG
- EW-# ELECTRIC WATER HEATER TAG
- EWT ENTERING WATER TEMPERATURE
- FC FLEXIBLE CONNECTION
- FCO FLOOR CLEANOUT
- FD-# FLOOR DRAIN TAG
- FOR FUEL OIL RETURN
- FOS FUEL OIL SUPPLY
- FPHB FROST PROOF HOSE BIBB

- FPM FEET PER MINUTE
- FS-# FLOOR SINK TAG
- FT FEET
- GA GAGE
- GAL GALLONS
- GFWH-# GAS FIRED WATER HEATER TAG
- GPH GALLONS PER HOUR
- GPM GALLONS PER MINUTE
- GUH-# GAS UNIT HEATER TAG
- HP HORSEPOWER
- HW HOT WATER, DOMESTIC
- IFWH-# INDIRECT FIRED WATER HEATER TAG
- INS INCHES
- LB POUNDS
- LWCO LOW WATER CUTOUT
- LWT LEAVING WATER TEMPERATURE
- MAX MAXIMUM
- MBH THOUSANDS OF BTU PER HOUR
- MCA MINIMUM CIRCUIT AMPACITY
- MIN MINIMUM
- NIC NOT IN CONTRACT
- NTS NOT TO SCALE

- O.D. OUTSIDE DIAMETER
- OFRWL OVERFLOW RAINWATER LEADER
- OFWH-# OIL FIRED WATER HEATER TAG
- OFRD OVERFLOW ROOF DRAIN
- OPD OVERCURRENT PROTECTIVE DEVICE
- PENET'N PENETRATION
- PEX CROSS-LINKED POLYETHYLENE
- PC PUMPED CONDENSATE
- PLCS PLACES
- PSIA POUNDS PER SQUARE INCH ABSOLUTE
- PSIG POUNDS PER SQUARE INCH GAGE
- PVC POLYVINYL CHLORIDE (PIPE)
- R/ REMOVE & RETAIN FOR RE-USE
- RD ROOF DRAIN
- RHW RECIRCULATED HOT WATER
- RPM REVOLUTIONS PER MINUTE
- RPZ REDUCED PRESSURE ZONE
- RV RELIEF VALVE
- RWL RAINWATER LEADER
- SAN SANITARY (DRAIN & WASTE)
- SP-# SUMP PUMP TAG
- SQ.FT SQUARE FEET

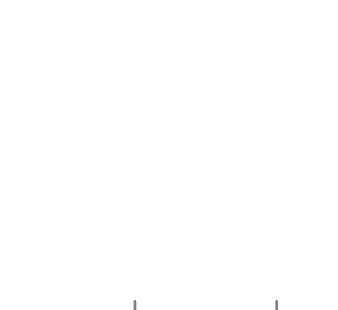
- ΔT TEMPERATURE DIFFERENTIAL
- TEMP. TEMPERATURE
- TCP TEMPERATURE CONTROL PANEL
- TMV-# THERMOSTATIC MIXING VALVE TAG
- TYP TYPICAL
- UN.O. UNLESS NOTED OTHERWISE
- VB VACUUM BREAKER
- VFD VARIABLE FREQUENCY INVERTER DRIVE
- VTR VENT THRU ROOF
- WCO WALL CLEANOUT



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com



DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
03.31.21	STS	DSM					
03.31.21	ME						
04.16.21	OT closest						
03.31.21	PE NUMBER						
	DATE						

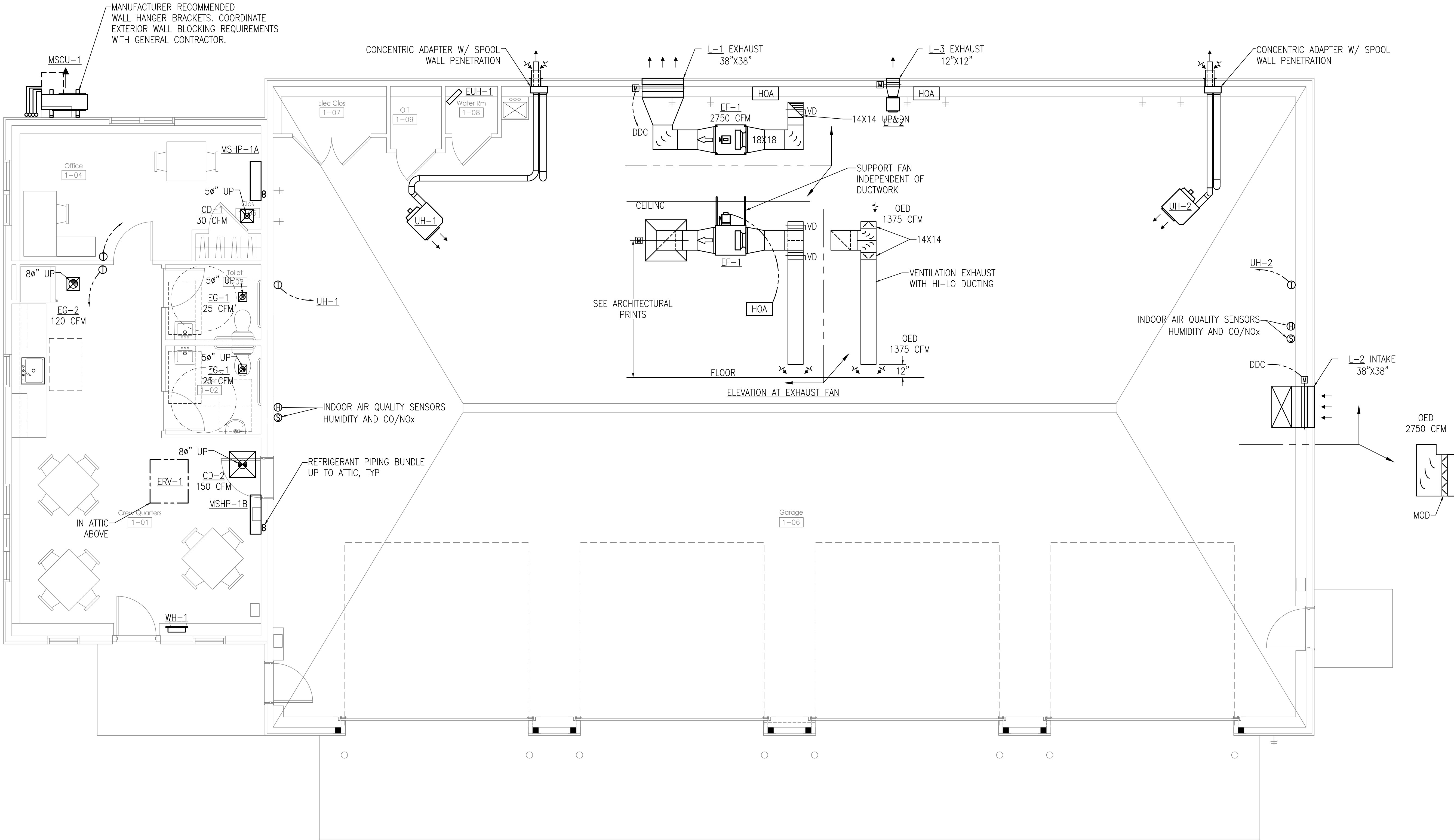
DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
03.31.21	STS	DSM					
03.31.21	ME						
04.16.21	OT closest						
03.31.21	PE NUMBER						
	DATE						

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
03.31.21	STS	DSM					
03.31.21	ME						
04.16.21	OT closest						
03.31.21	PE NUMBER						
	DATE						

PLUMBING DETAILS &
LEGEND
ISSUED FOR BID
SCALE AS SHOWN

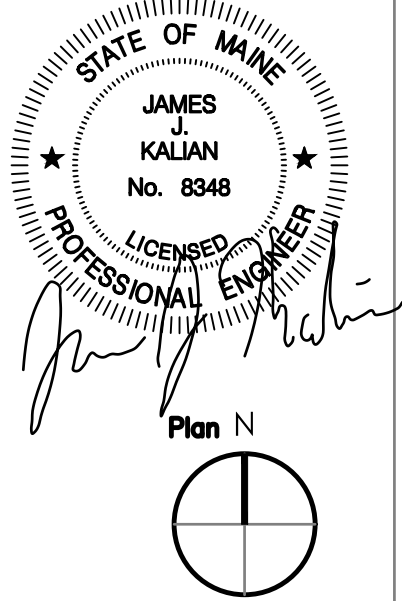
SHEET NUMBER

P-200



- GENERAL MECHANICAL NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED WORK IN ALL AFFECTED AREAS AND COORDINATE INSTALLATION OF EQUIPMENT AND PIPING AS INDICATED.
 2. REFER TO MECHANICAL SCHEDULES FOR EQUIPMENT BRANCH PIPE SIZES.

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



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00

CASCO BAY
ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2825
www.cascobayengineering.com
David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

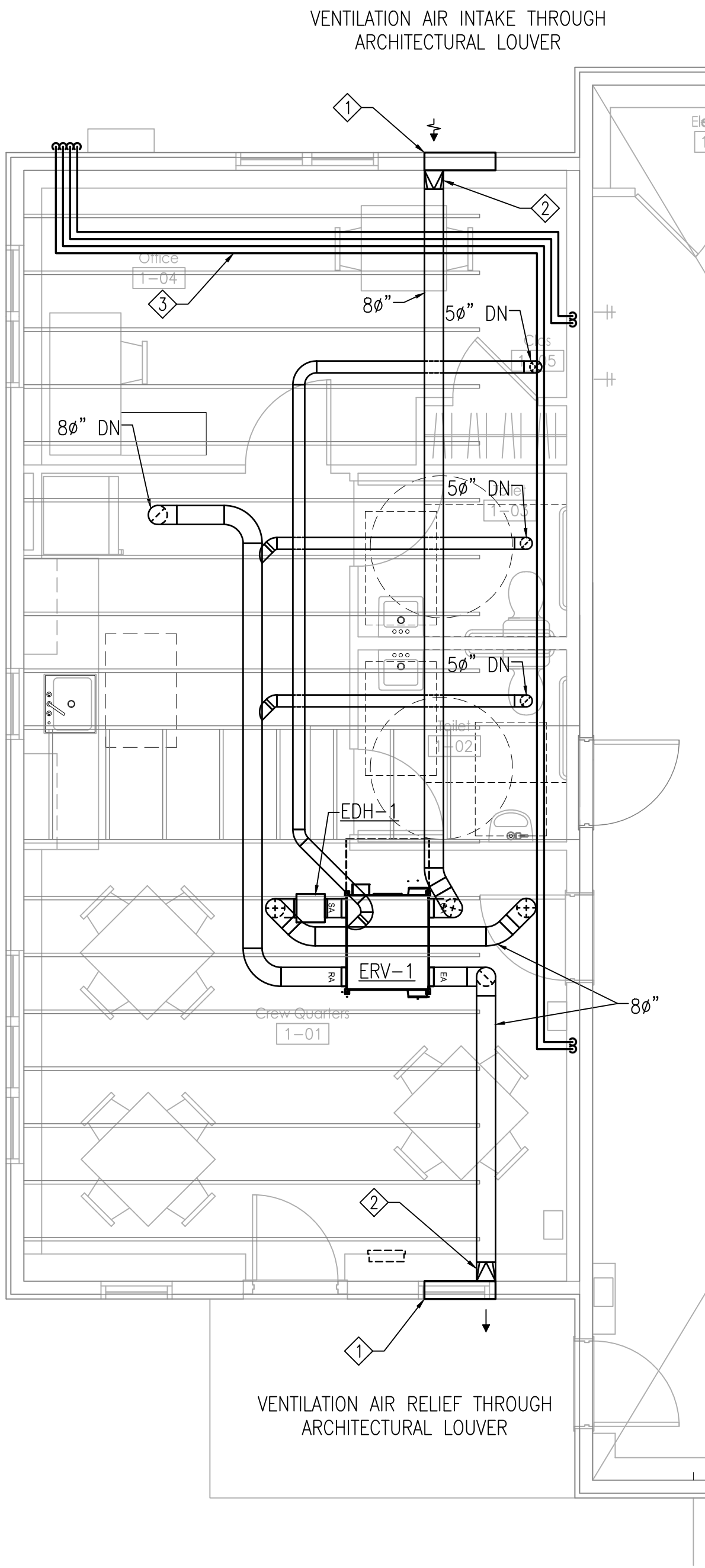
DATE	BY	DATE	BY	DATE	BY
03.31.21	STS	03.31.21	DSM	04.16.21	OT closet
ME		PE NUMBER		03.31.21	DATE

MECHANICAL PLAN

ISSUED FOR BID
SCALE: AS SHOWN

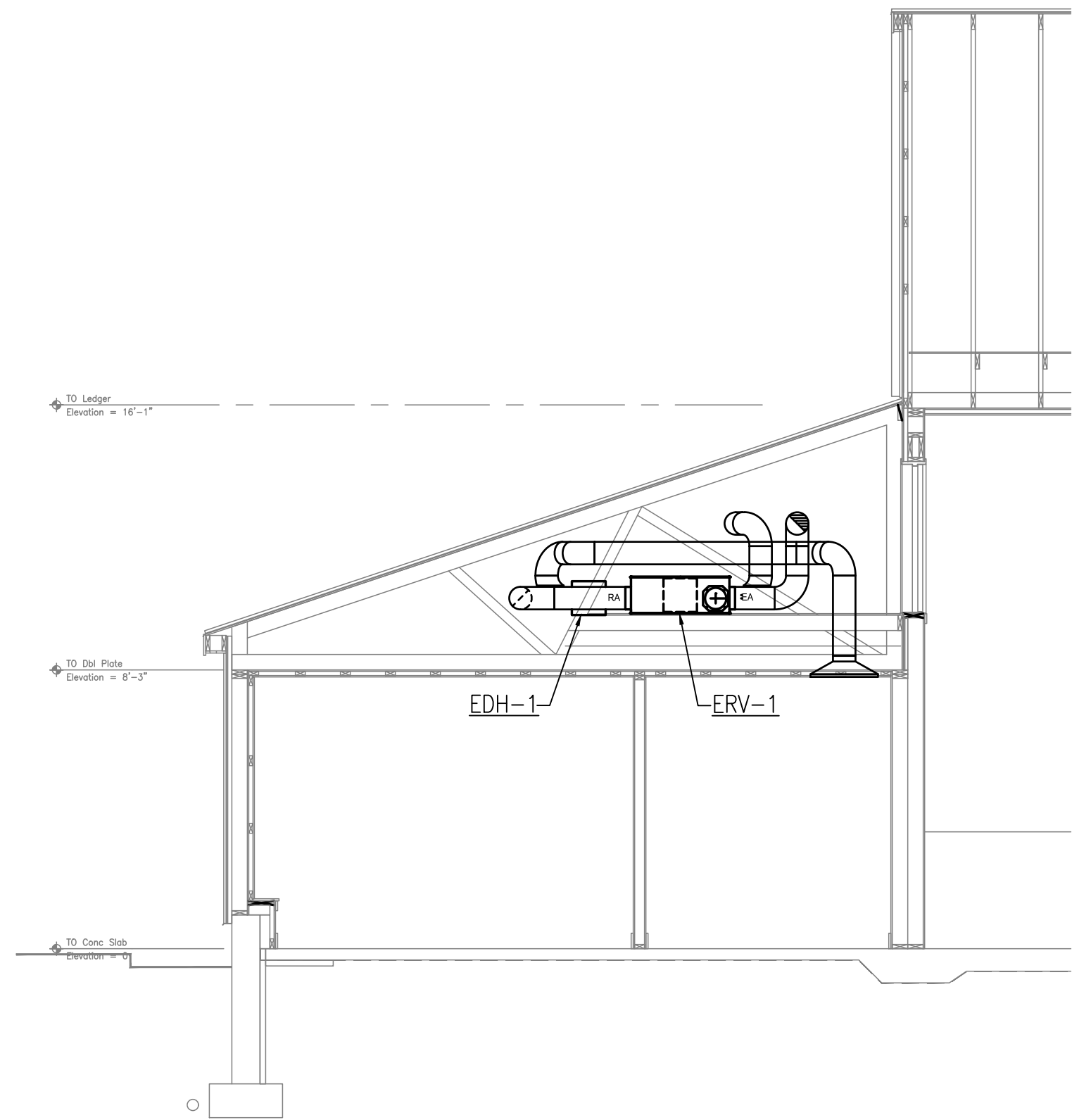
SHEET NUMBER

M-100



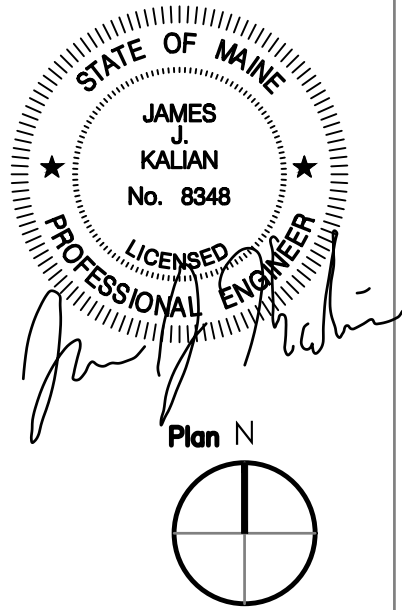
ATTIC MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

- GENERAL MECHANICAL NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED WORK IN ALL AFFECTED AREAS AND COORDINATE INSTALLATION OF EQUIPMENT AND PIPING AS INDICATED.
 2. REFER TO MECHANICAL SCHEDULES FOR EQUIPMENT BRANCH PIPE SIZES.



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

- MECHANICAL NUMBERED NOTES:
- 1. ARCHITECTURAL LOUVER BY OTHERS.
 - 2. PARTIAL PLENUM AT LOUVER.
 - 3. INSULATED REFRIGERANT PIPING. SUPPORT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.



PREPARED FOR:
STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00

CASCO BAY ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2825
www.cascobayengineering.com

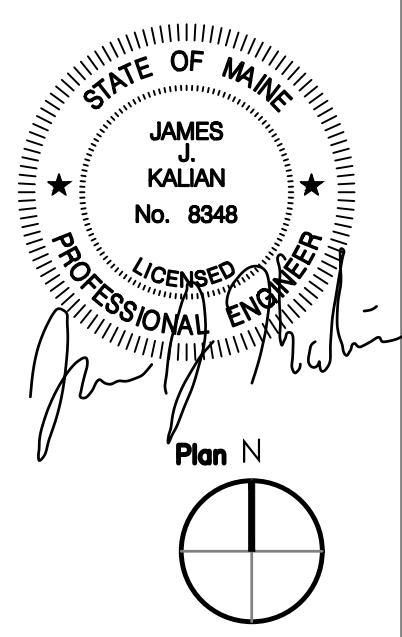
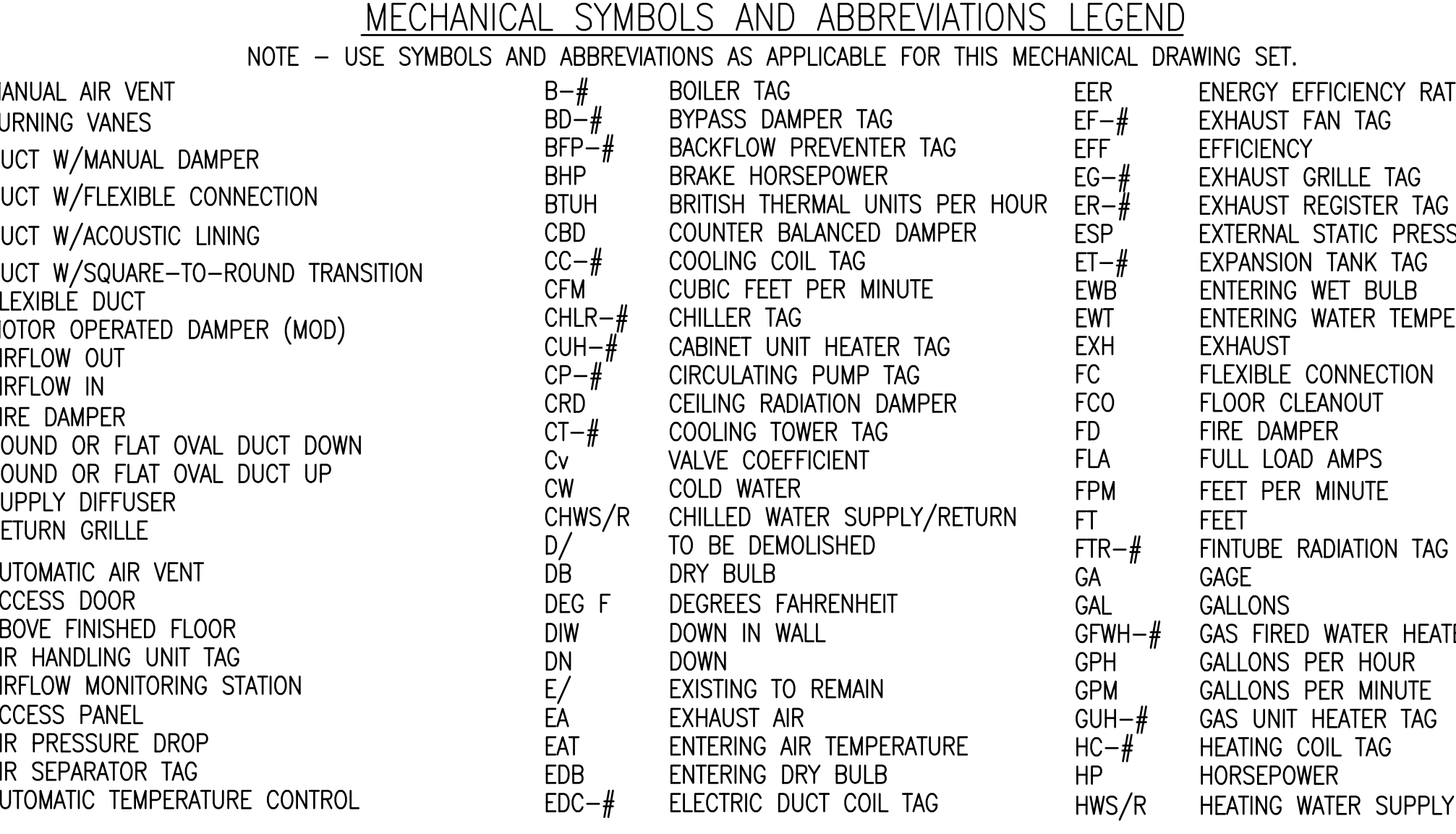
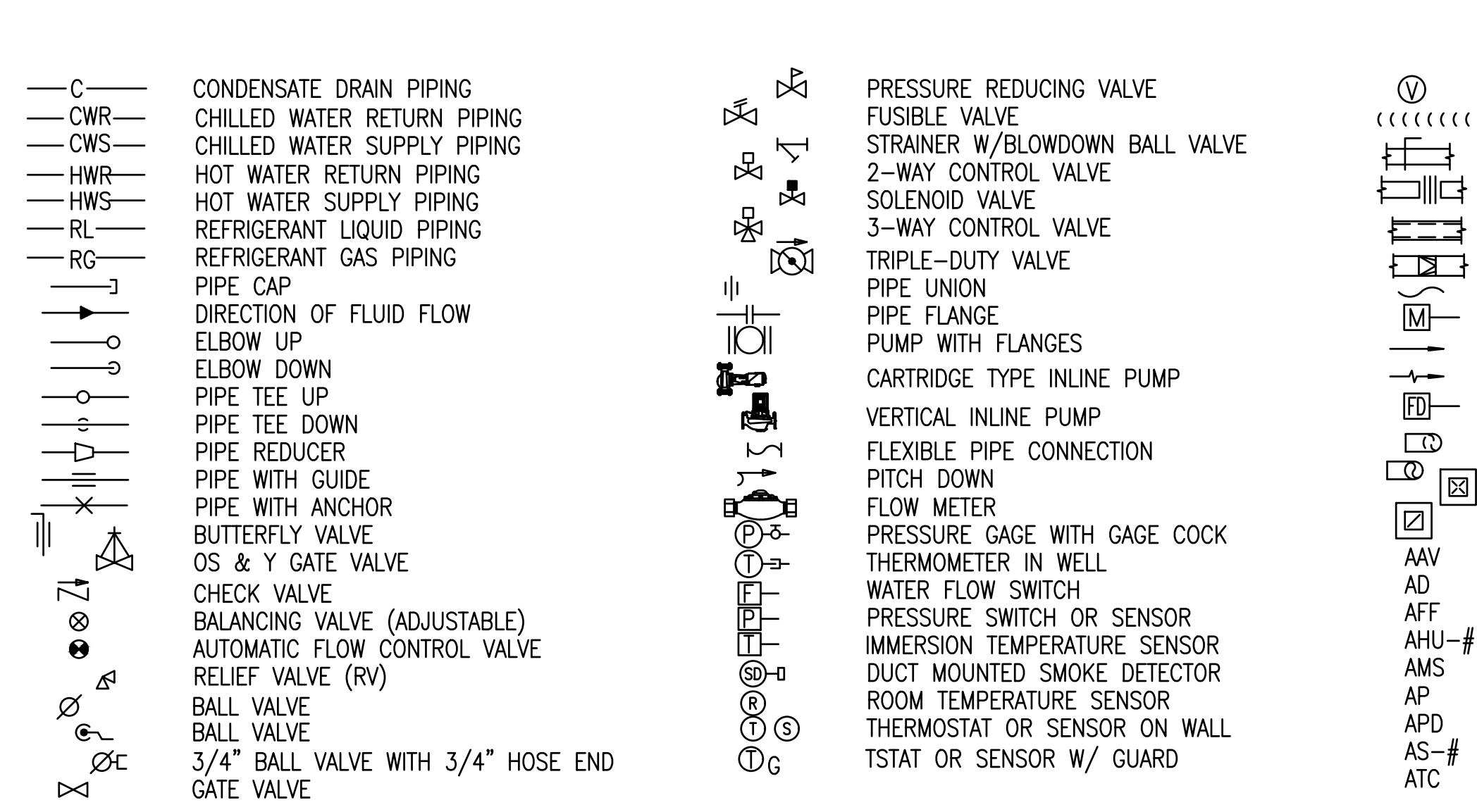
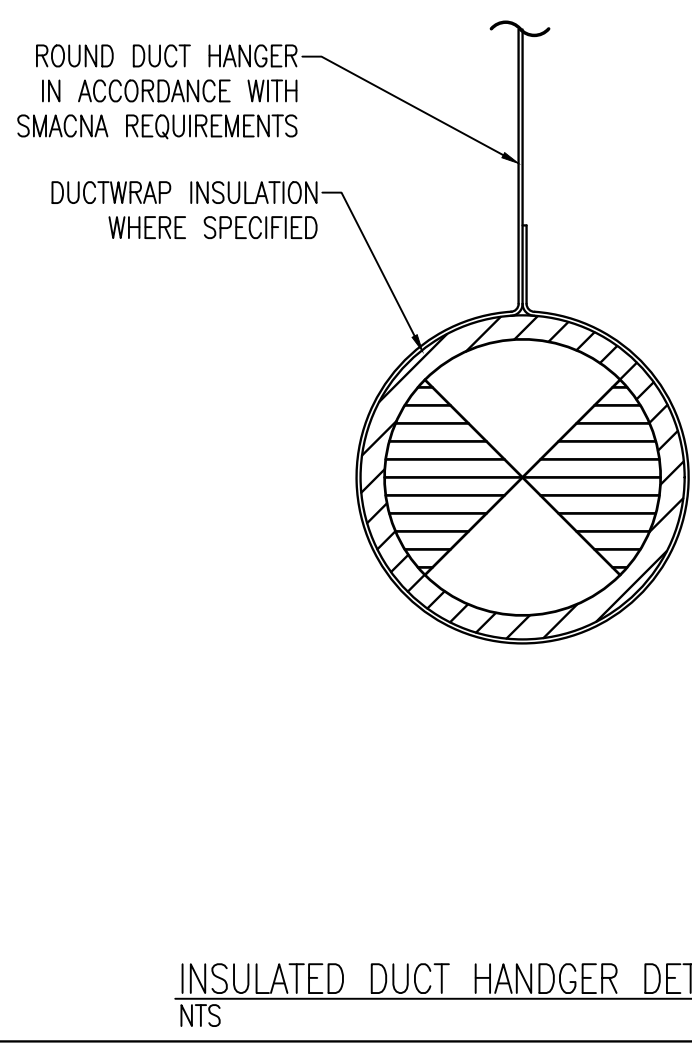
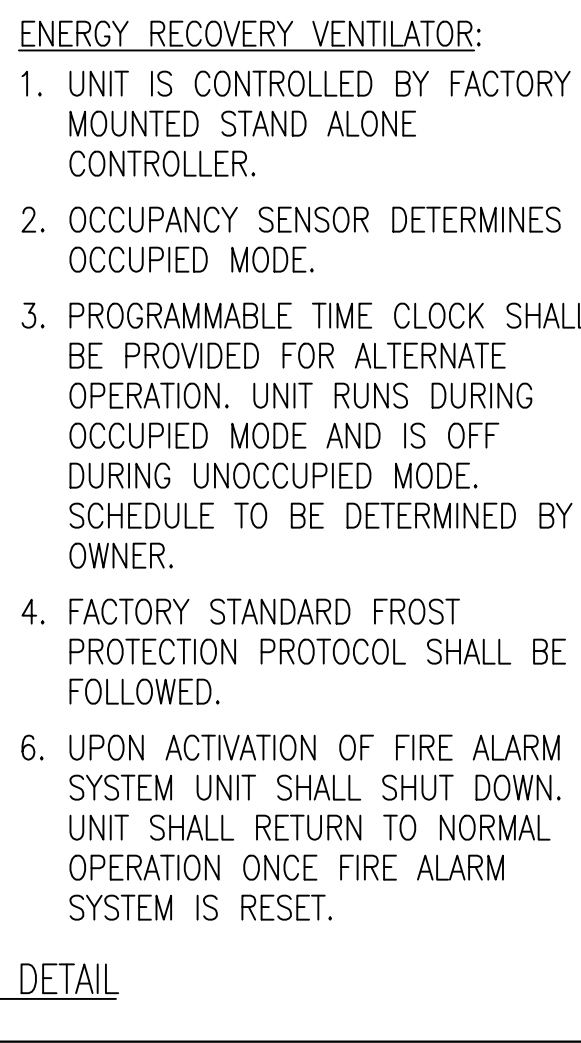
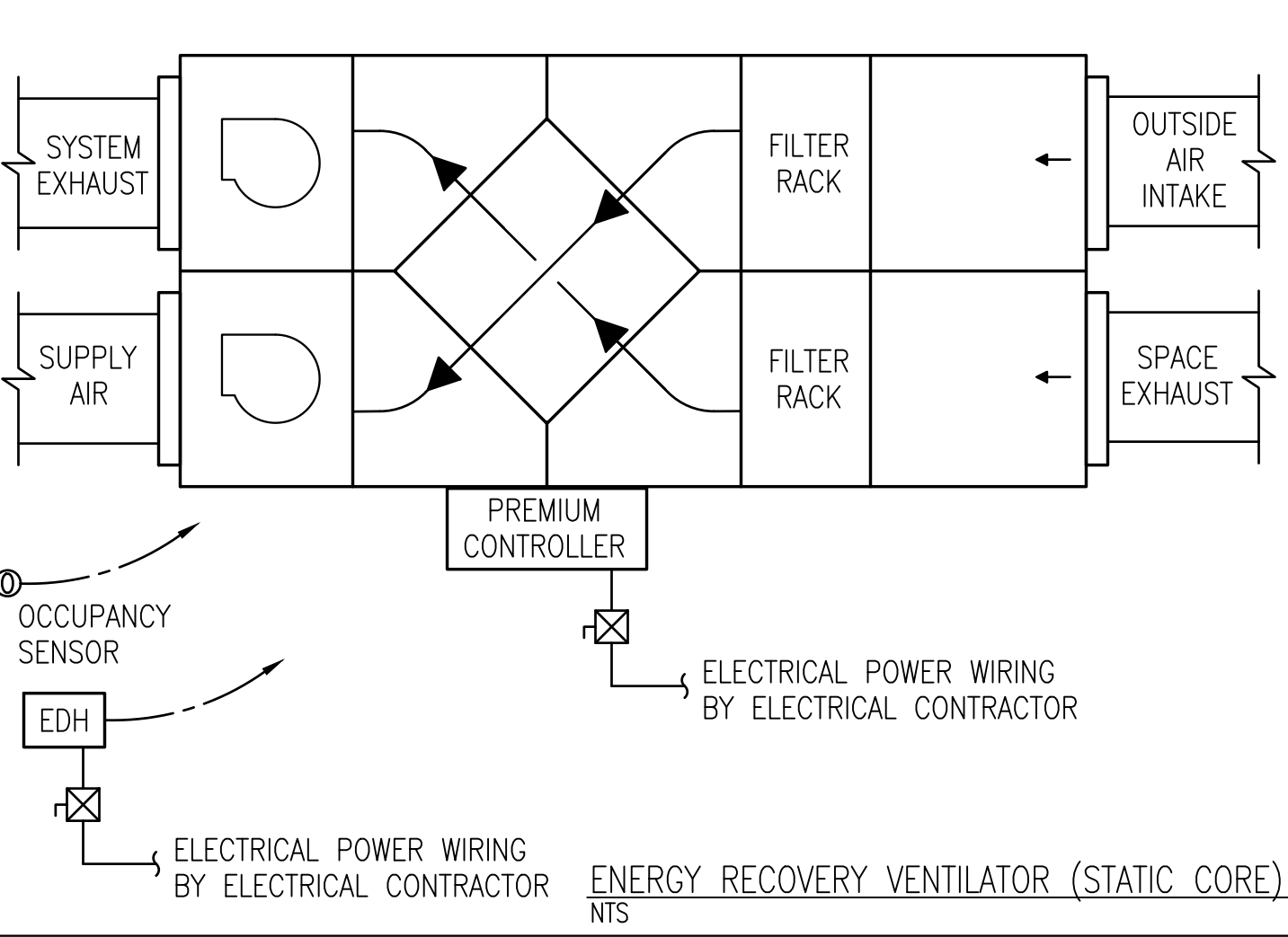
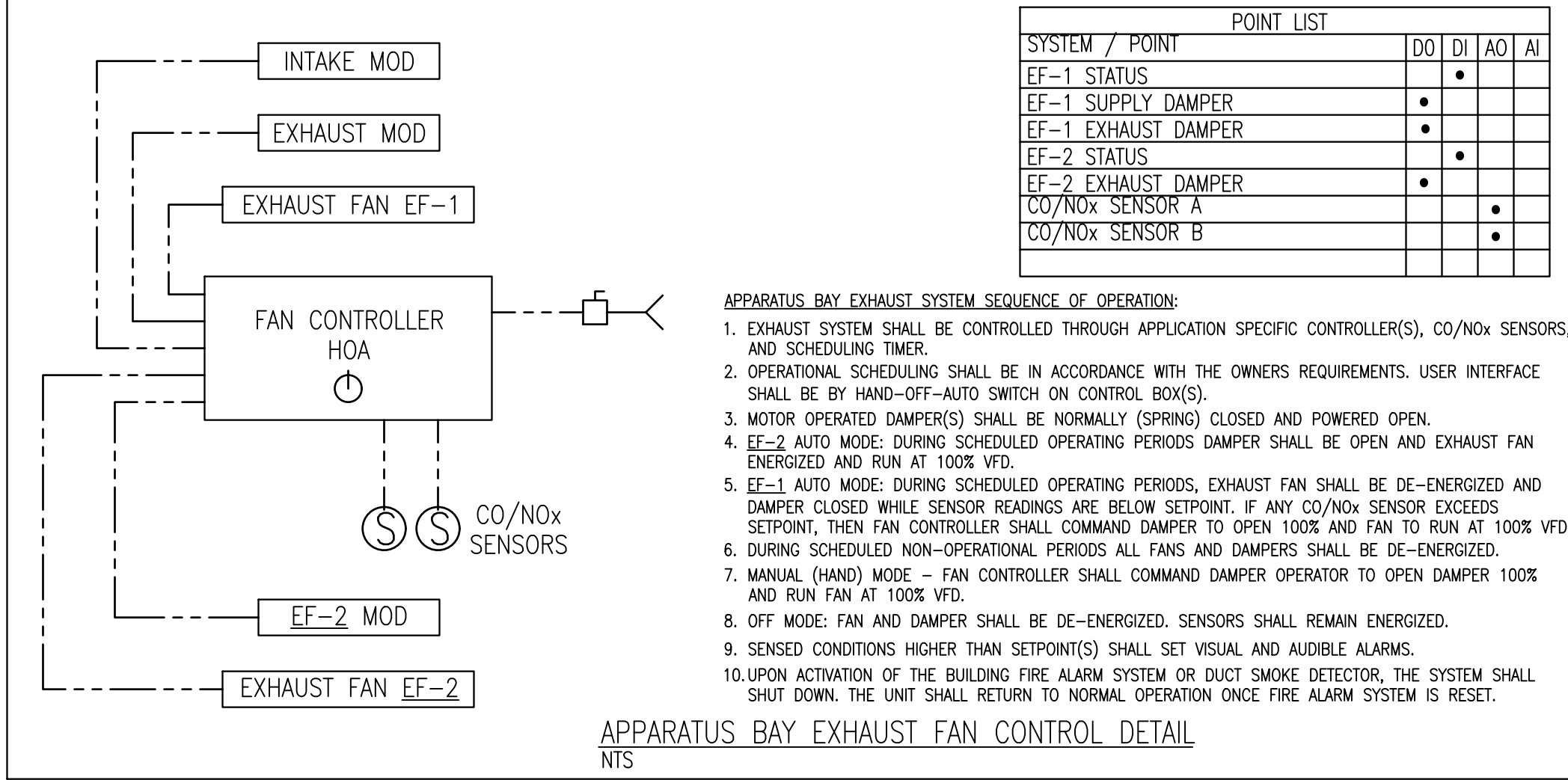
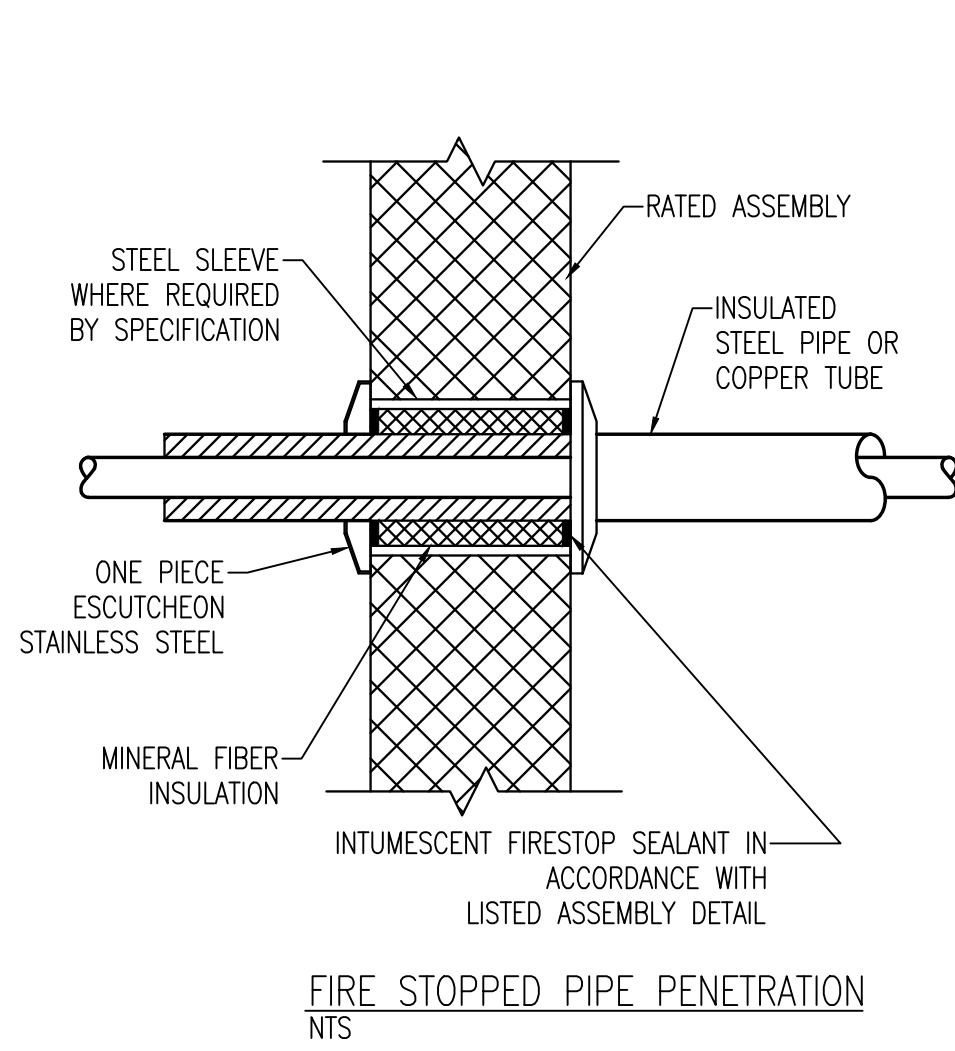
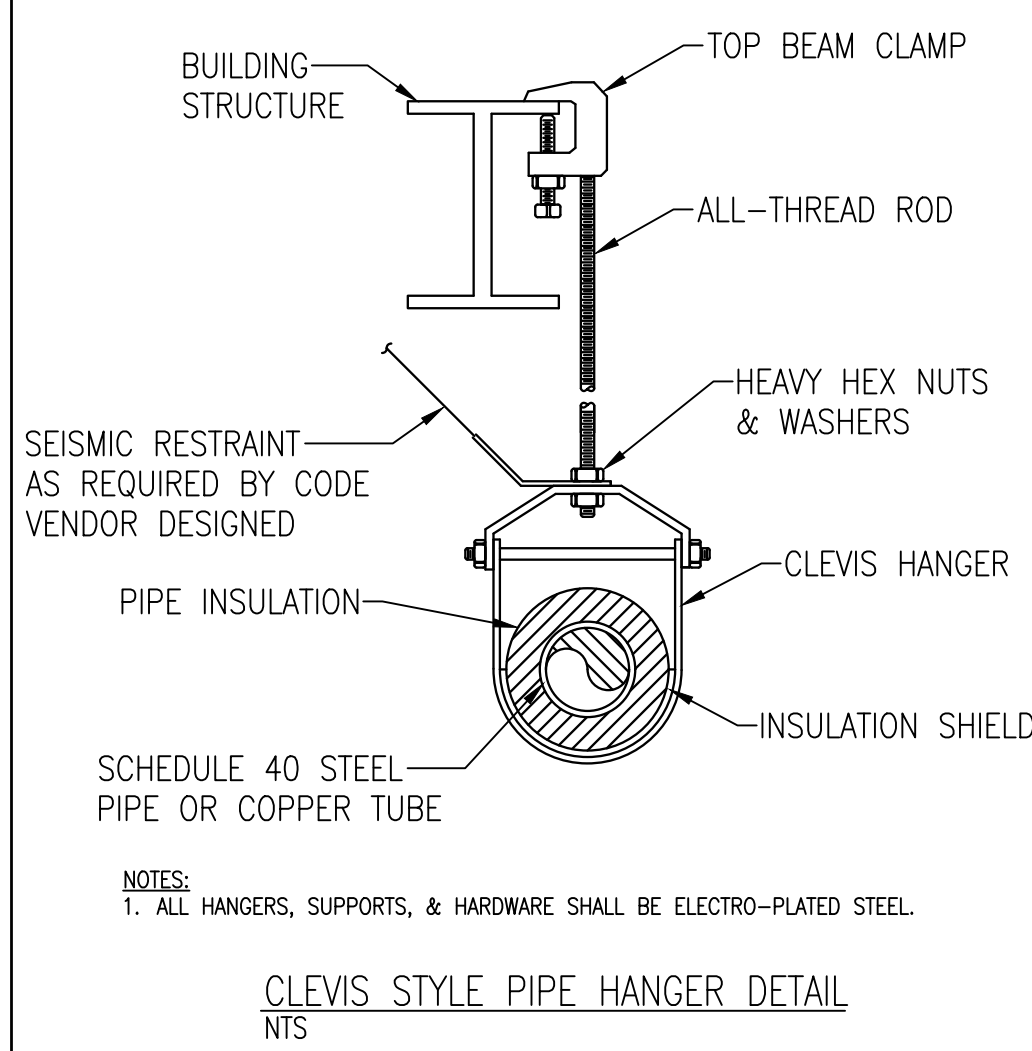
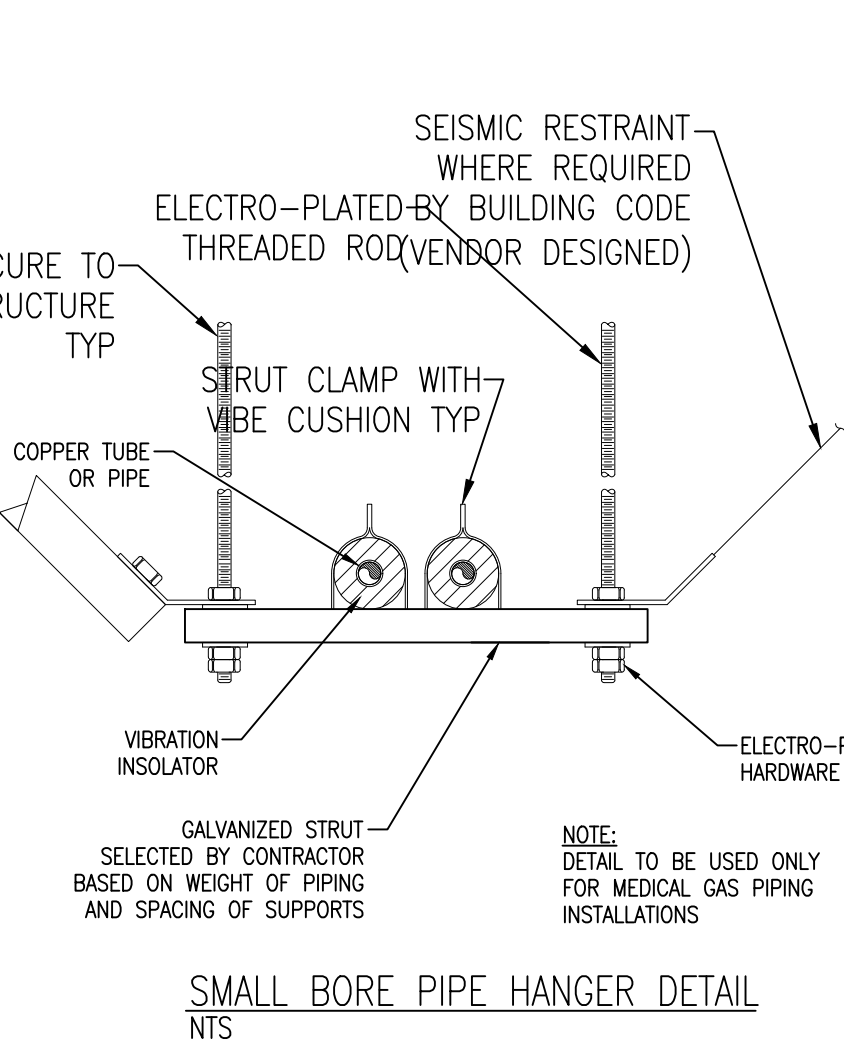
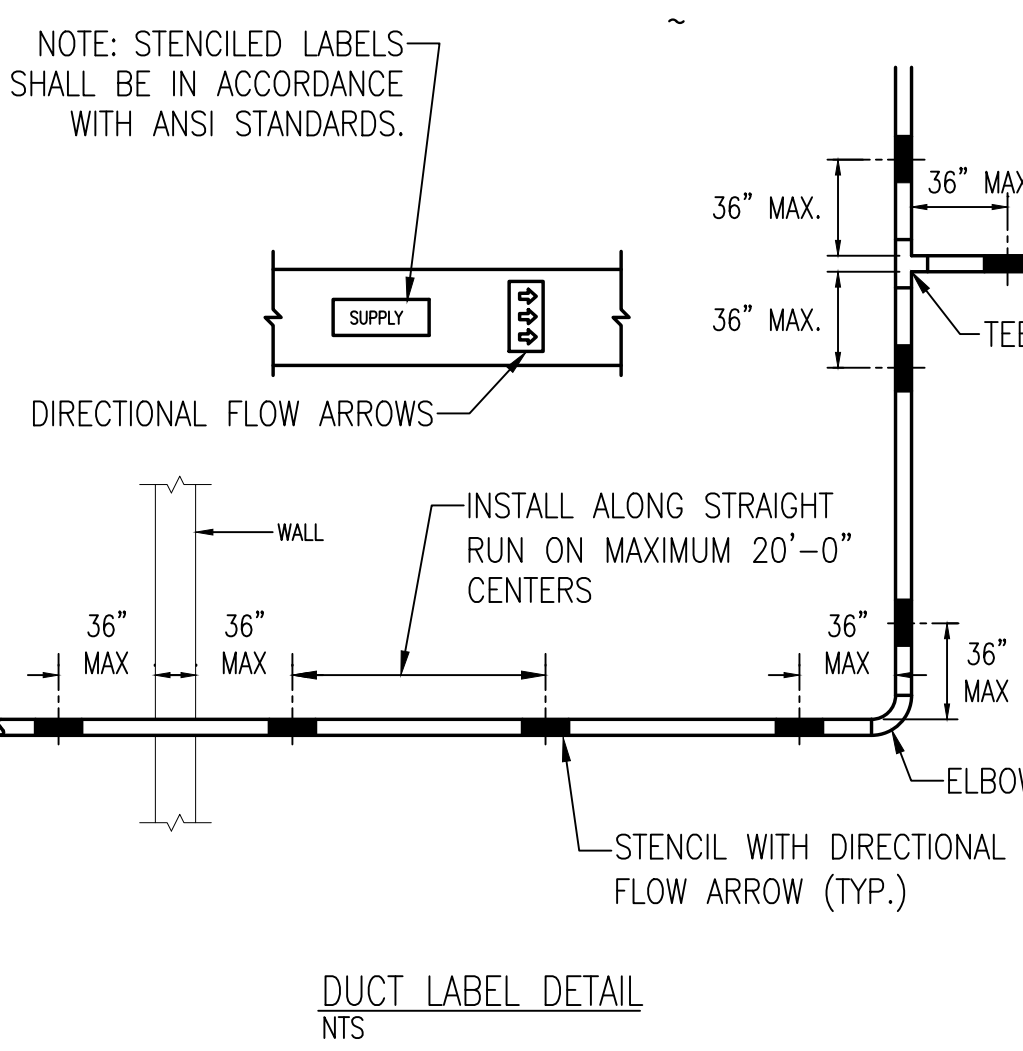
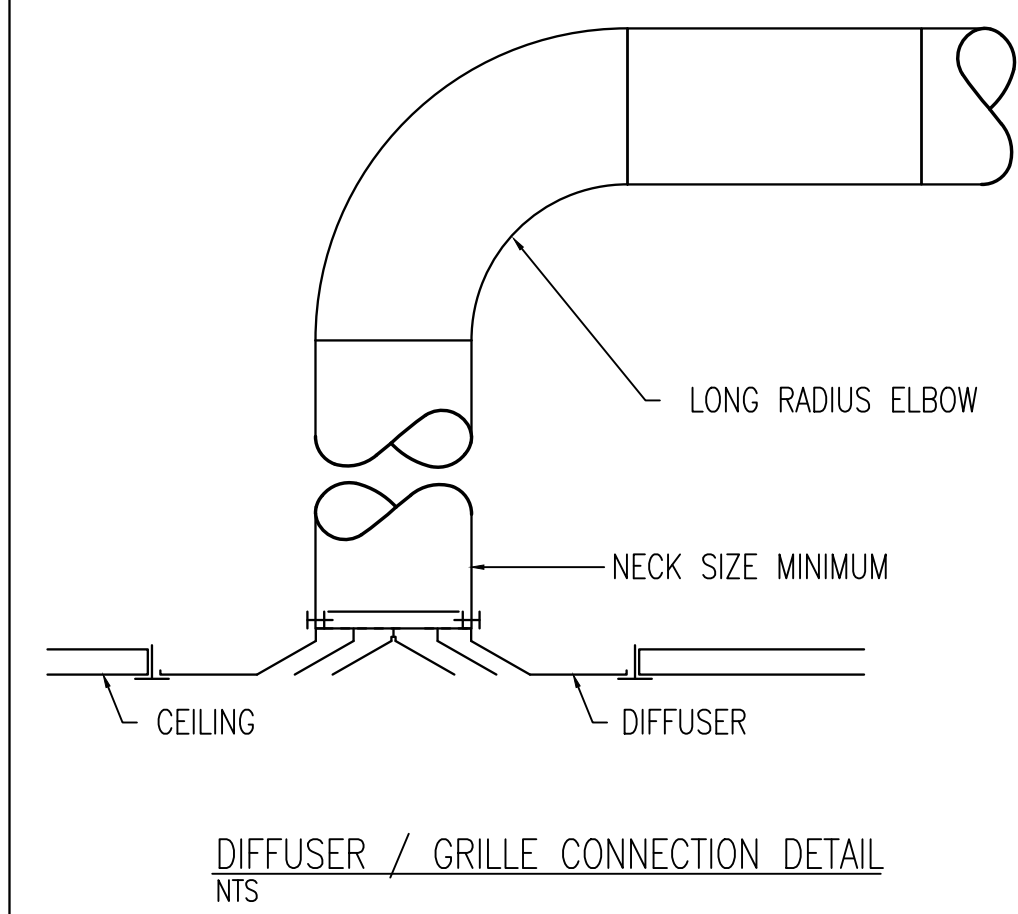
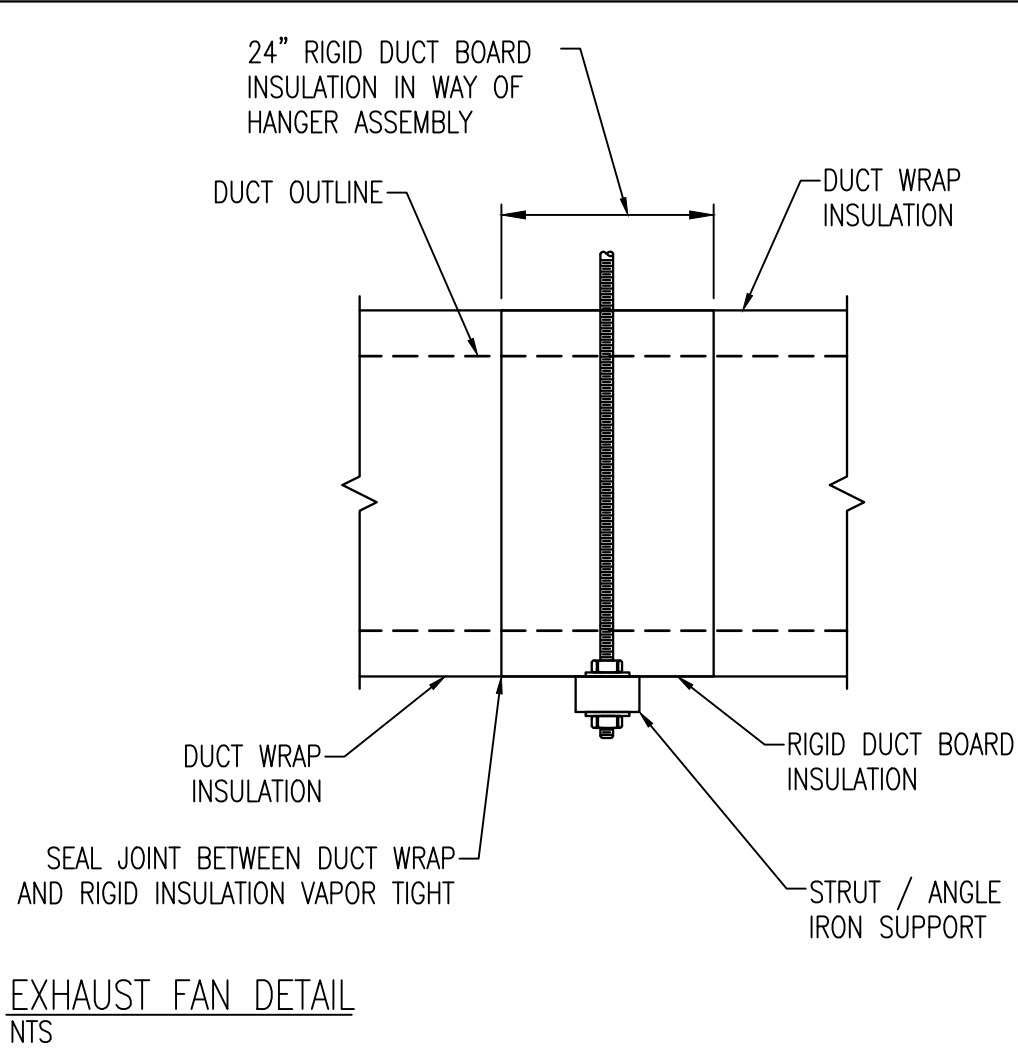
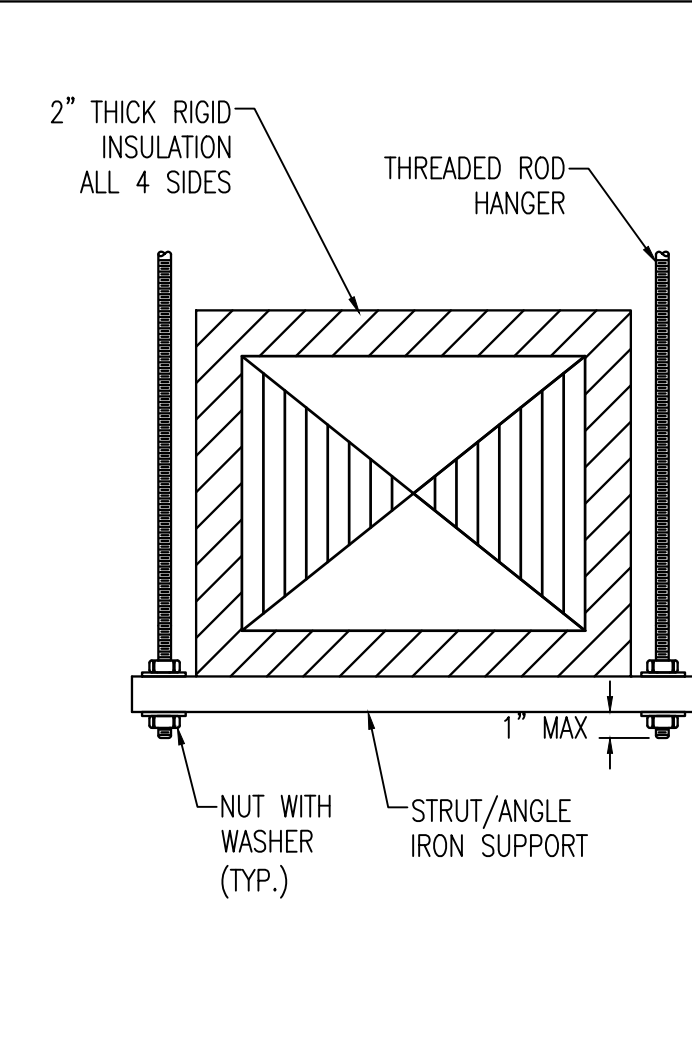
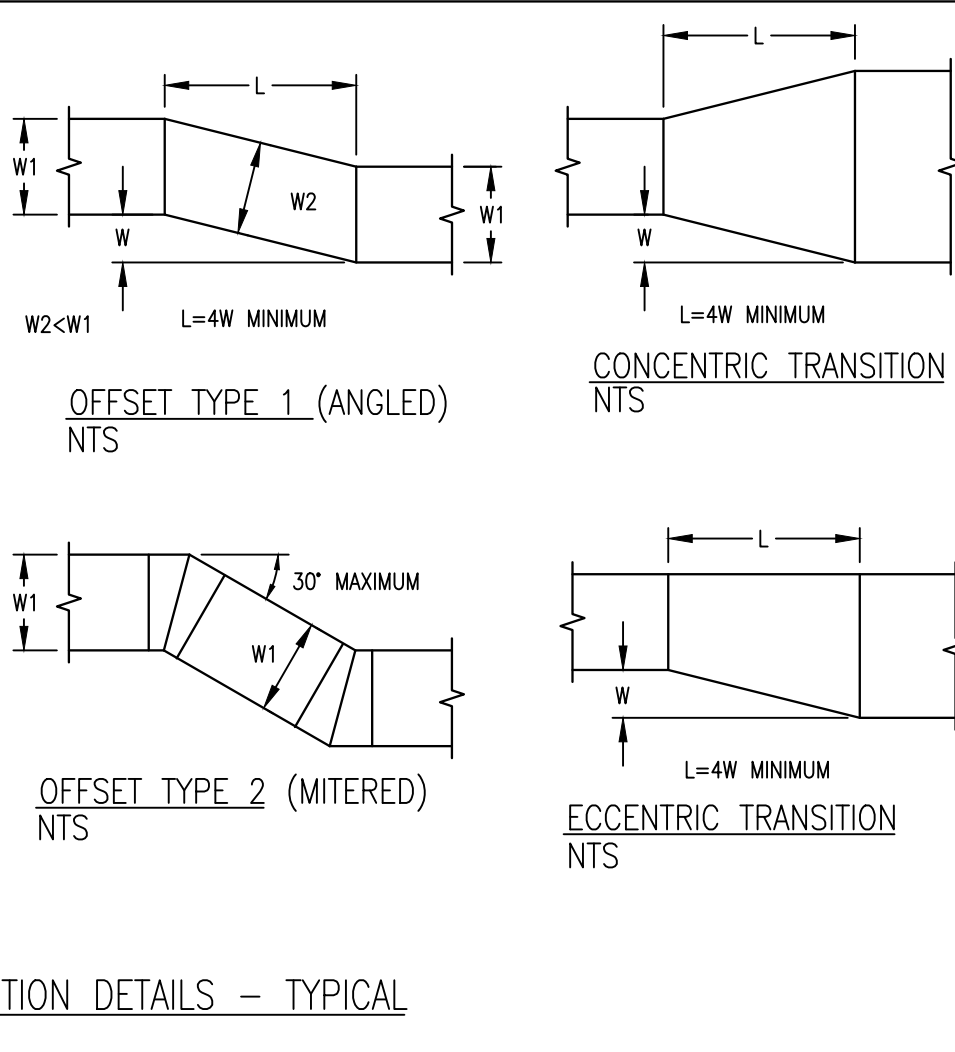
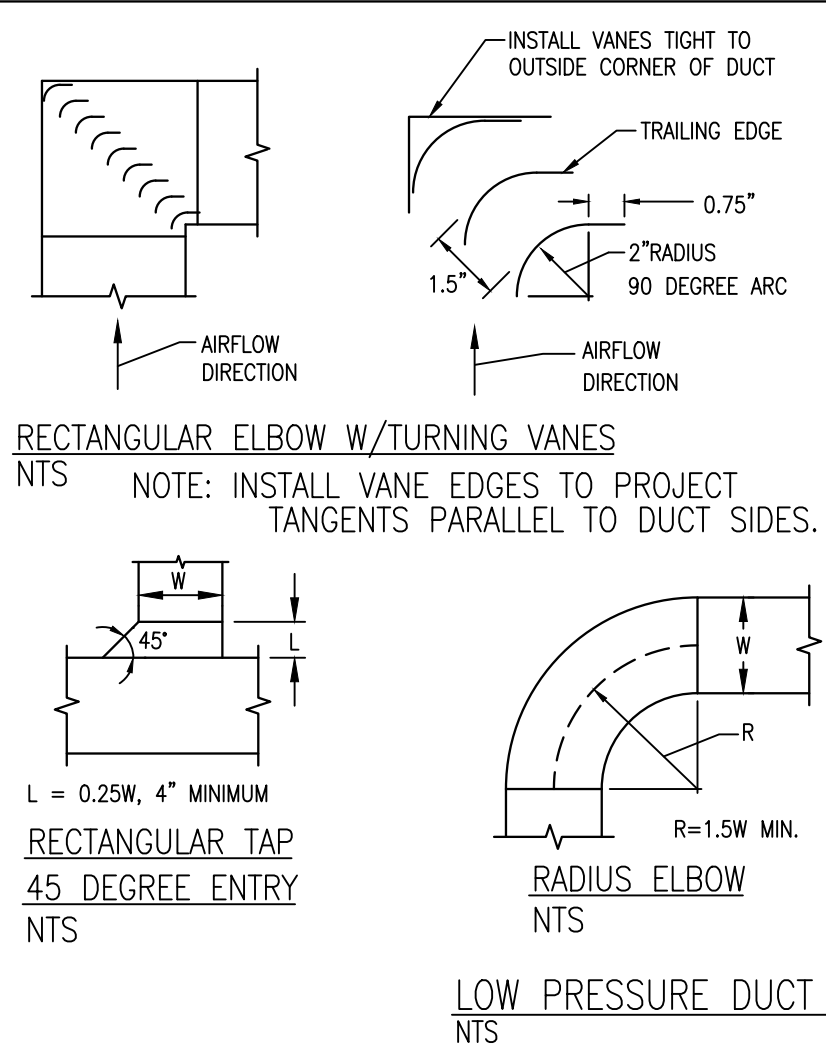
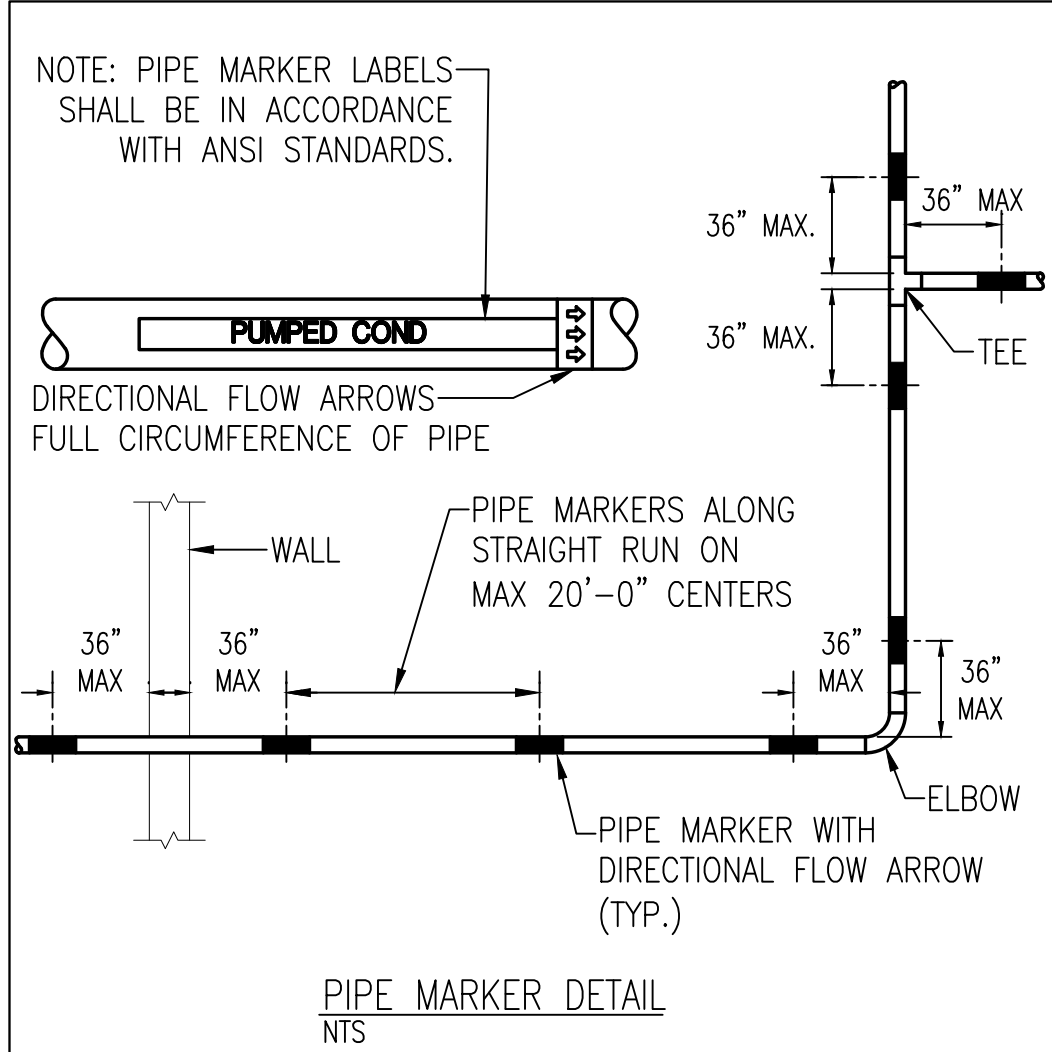
David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

DESIGN-DETAILED	CHECKED-REVIEWED	BY	DATE
REVISION 1	OT closet	STS	03.31.21
REVISION 2		DSM	03.31.21
REVISION 3			04.16.21
FIELD CHANGES			03.31.21

MECHANICAL ATTIC PLAN
AND SECTION

ISSUED FOR BID
SCALE AS SHOWN

SHEET NUMBER
M-101



STATE OF MAINE DOT

Fort Fairfield Truck Storage and Crew Quarters

86 S Caribou Rd, Fort Fairfield, Maine

WIN 27323.00

CASCO BAY ENGINEERING

424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2825
www.cascobayengineering.com

David Matero
Architecture

49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
03.31.21	STS						
03.31.21	DSM						
04.16.21	OT closest						
03.31.21	ME						
03.31.21	PE NUMBER						
03.31.21	DATE						

MECHANICAL DETAILS & LEGEND

ISSUED FOR BID

SCALE AS SHOWN

SHEET NUMBER

M-200

ENERGY RECOVERY VENTILATOR (STATIC CORE) SCHEDULE

TAG	MODEL	OA PERFORMANCE			EXHAUST AIR			EFFECTIVENESS %			ELECTRICAL			FILTERS		CASING DIMENSIONS H X W X D INS	WEIGHT LBS	ELECTRIC DUCT HEATER												REMARKS
		CFM	ESP IN WG	HP	CFM	ESP IN WG	HP	SENSIBLE	WINTER TOTAL	SUMMER TOTAL	POWER	MCA	MOCP	STYLE	MERV			TAG	MAKE	SERIES	DUCT DIA	CFM	ENTERING AIR F	LEAVING AIR F	KW	POWER	MCA	MOCP		
															OA														EXH	
ERV-1	LGH-F300RVX-E	225	0.26	---	225	0.26	---	70	66.5	53.5	120/1/60	2.1	15	WASH	---	---	13 X 42 X 42	75	EDH-1	VARIOUS	---	8	225	40	70	3.0	208/1/60	---	---	NOTES: ALL
NOTES: 1. BASIS OF DESIGN IS LOSSNAY INDOOR STATIC CORE ENERGY RECOVERY VENTILATOR. 2. UNIT CONFIGURATION IS SUSPENDED WITH HORIZONTAL DUCT CONNECTIONS. 3. PROVIDE TIMER CONTROL WITH HEAT PUMP INTERLOCK. 4. PROVIDE BACKDRAFT DAMPER FOR EACH AIR STREAM. 4. PROVIDE ONE SPARE SET OF FILTERS FOR EACH UNIT. 5. ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRIC POWER DROP, DISCONNECT, AND CONNECTION TO UNIT.																														

MULTU-ZONE HEAT PUMP OUTDOOR UNIT SCHEDULE

	MODEL	RATED CAPACITY BTUH		MINIMUM EFFICIENCY REQUIREMENTS				ELECTRICAL				SPL dBA		CONNECTIONS			DIMENSIONS H x W x D INS	WEIGHT LBS	COMMENTS
		COOLING	HEATING	EER	SEER	COP	HSFP	POWER	MCA	MOCP		COOLING	HEATING	LIQUID	GAS	TYPE			
MSCU-1	MXZ-3C24NAHZ2	22,000	25,000	13.5	19.0	4.3	10.0	208-230/1/60	30.5	40		54	58	1/4	3/8-1/2	FLARE	42 X 38 X 13	189	NOTES: ALL
NOTES: 1. BASIS OF DESIGN IS MITSUBISHI ELECTRIC P-SERIES MULTI-ZONE HEAT PUMP SYSTEM WITH HYPERHEAT. 2. OPERATING RANGE FOR COOLING BASED ON OUTDOOR CONDITIONS 5F TO 115F DRY BULB. 3. OPERATING RANGE FOR HEATING BASED ON OUTDOOR CONDITIONS -13F TO 59F DRY BULB. 4. OUTDOOR UNIT SHALL BE FITTED WITH FACTORY LOW AMBIENT KIT(S) INCLUDING WIND BAFFLE(S). 5. PROVIDE INTEGRAL CONDENSATE LIFT PUMP AND DRAIN PAN LEVEL SENSOR. 6. PROVIDE WIRELESS REMOTE CONTROLLER. 7. PROVIDE MANUFACTURERS ISOLATION VALVES WITH INSULATION KITS AT ALL REFRIGERANT PIPING SERVICE CONNECTIONS. 8. ELECTRICAL POWER DROP, DISCONNECT, AND WIRING TO UNIT BY ELECTRICAL CONTRACTOR.																			

MULTI-ZONE HEAT PUMP INDOOR UNIT SCHEDULE

TAG	SPACE	STYLE	MODEL	NOMINAL BTUH		CFM	ESP WG	ELECTRICAL			SPL dBA	FILTER	DRAIN		REFRIGERANT LINES			DIMENSIONS INS W X D X H	WEIGHT LBS	REMARKS
				COOLING	HEATING			POWER	MCA	MOCP			TYPE	CONN	LIQUID	SUCT	CONN			
MSHP-1A	OFFICE	WALL	MSZ-GLO6NA	6,000	7,200	170	----	208-230/1/60	1.0	22	22	WASHABLE	GRAVITY	5/8	1/4	3/8	FLARED	32 X 9 X 12	22	NOTES: ALL
MSHP-1B	BREAK ROOM	WALL	MSZ-GL18NA	18,000	21,600	417	----	208/1/60	1.0	38	38	WASHABLE	GRAVITY	5/8	1/4	3/8	FLARED	37 X 10 X 12	28	NOTES: ALL
NOTES:																				
1. BASIS OF DESIGN IS MITSUBISHI ELECTRIC VARIABLE REFRIGERANT FLOW MULTLI-ZONE HEAT PUMP SYSTEM.											5. PROVIDE INTEGRAL CONDENSATE LIFT PUMP AND DRAIN PAN LEVEL SENSOR.									
2. NOMINAL COOLING CONDITIONS BASED ON: INDOOR 80F DRY BULB / 67F WET BULB AND OUTDOOR 95F DRY BULB.											6. PROVIDE WIRELESS REMOTE CONTROLLER.									
3. NOMINAL HEATING CONDITIONS BASED ON INDOOR 70F DRY BULB.											7. PROVIDE PRECHARGED LINESETS WITH CODE COMPLIANT INSULATION TO MINIMIZE SYSTEM PIPING JOINTS WHERE APPLICABLE.									
4. PROVIDE ISOLATION VALVES WITH INSULATION KITS AT ALL REFRIGERANT PIPING SERVICE LOCATIONS.											8. ELECTRIC POWER DROP, DISCONNECT, AND WIRING TO UNIT BY ELECTRICAL CONTRACTOR.									

FAN SCHEDULE

TAG	SERVICE	MODEL	UL LISTED & LABELED	AIRFLOW CFM	ESP IN WC	FAN MOTOR		TIP SPEED	INLET SONES	ELECTRICAL			BACKDRAFT DAMPER	FAN DIMENSIONS L X W X H INS	WEIGHT LB	REMARKS
						RPM	HP			POWER V/PH/Hz	FLA	MOCBP				
EF-1	APPARATUS BAY	BSQ-180-7	UL-705	2750	0.50	873	3/4	4227	11.3	230/1/60	6.9	----	NO	41 X 28 X 31	160	NOTES: ALL
EF-2	APPARATUS BAY	SQ-70-VG	UL-705	200	0.50	990	1/15	2107	2.1	115/1/60	----	----	YES	16 X 12 X 12	32	NOTES: ALL
NOTES:																
1. BASIS OF DESIGN IS GREENHECK BELT DRIVEN SQUARE IN-LINE FAN.																
2. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.																
3. PROVIDE FACTORY OPTIONAL INLET GUARD.																
4. ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRIC POWER DROP, DISCONNECT, AND CONNECTION TO UNIT.																

GRILLE AND DIFFUSER SCHEDULE

TAG	DESCRIPTION	MODEL	CFM	MODULE SIZE	NECK SIZE INCHES	MOUNT	COLOR	INTEGRAL DAMPER	REMARKS
CD-1	SQUARE CONE DIFFUSER	ASCD	0 - 100	12 x 12	6	NOTE 3	WHITE	NO	NOTES: 1, 3, & 4
CD-2	SQUARE CONE DIFFUSER	ASCD	101 - 260	20 x 20	8	NOTE 3	WHITE	NO	NOTES: 1, 3, & 4
RG/EG/TG-1	LOUVERED GRILLE	635	0 - 110	NOTE 2	6 X 6	NOTE 3	WHITE	NO	NOTES: ALL
RG/EG/TG-2	LOUVERED GRILLE	635	111 - 230	NOTE 2	8 X 8	NOTE 3	WHITE	NO	NOTES: ALL
NOTES: 1. BASIS OF DESIGN FOR IS PRICE INDUSTRIES. 2. NOMINAL MODULE SIZE BASED ON GRILLE NECK SIZE. 3. LAY-IN OR SURFACE MOUNT IN ACCORDANCE WITH ARCHITECTS REFLECTED CEILING PLAN. 4. PRODUCT SELECTION SHALL BE BASED ON NOISE CRITERIA LESS THAN NC-30.									

UNIT HEATER SCHEDULE

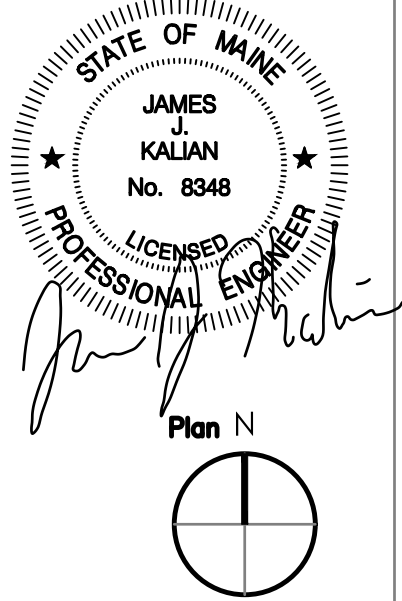
TAG	STYLE	MOUNTING	MODEL	CAPACITY MBH		FUEL		CONNECTIONS NPS			dBA @ 15ft	FAN PERFORMANCE			ELECTRICAL POWER			DIMENSIONS L X W X H	WEIGHT LB	REMARKS
				INPUT	OUTPUT	TYPE	MIN IN WC	FUEL	CA	VENT		CFM	ΔT DEG F	HP	SOURCE	FLA	MOCP			
UH-1	HORIZONTAL FLOW	SUSPENDED	UDAS	250	207.5	PROPANE	8.0	3/4	6	5	56	3,200	60	1/4	115/1/60	7.5	15	42 X 39 X 27	216	NOTES: ALL
UH-2	HORIZONTAL FLOW	SUSPENDED	UDAS	250	207.5	PROPANE	8.0	3/4	6	5	56	3,200	60	1/4	115/1/60	7.5	15	42 X 39 X 27	216	NOTES: ALL
NOTES: 1. BASIS OF DESIGN IS A REZNOR SEPARATED COMBUSTION COMMERCIAL UNIT HEATER. 2. UNIT SHALL BE UL/CSA LISTED AND LABELED. 3. PROVIDE FACTORY OPTIONAL THERMOSTAT AND THERMOSTAT GUARD WITH LOCKING COVER. 4. ELECTRICAL POWER WIRING BY ELECTRICAL CONTRACTOR.																				

LOUVER SCHEDULE

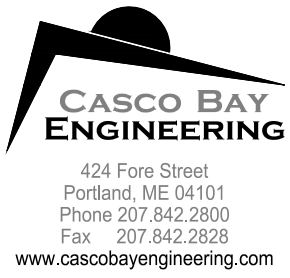
TAG	SERVICE	DIRECTION	MODEL	CFM	DIMENSIONS INCHES			FREE AREA		AIRFLOW		BLADE TYPE	REMARKS
					WIDTH	HEIGHT	DEPTH	%	SQ FT	FPM MAX	DP "WG		
L-1	EF-1	EXHAUST	ELF375DX	2750	38	38	4	54.0	5.42	500	<= 0.05"	DRAINABLE	NOTES: ALL
L-2	EF-1	INTAKE	ELF375DX	2750	38	38	4	54.0	5.42	500	<= 0.05"	DRAINABLE	NOTES: ALL
L-3	EF-2	EXHAUST	ELF211	200	12	12	2	42.0	0.42	500	<= 0.05"	DRAINABLE	NOTES: ALL
NOTES: 1. BASIS OF DESIGN IS RUSKIN STATIONARY LOUVER WITH INTEGRAL FLANGE. 2. EXTRUDED ALUMINUM CONSTRUCTION WELDED. 3. PROVIDE COLOR CHART SUBMITTAL FOR OWNER APPROVAL. 4. PROVIDE FACTORY BIRD SCREEN. 5. PROVIDE MOTOR OPERATED OPPOSED BLADE DAMPER WITH WEATHER PROOF SEALS.													

ELECTRIC HEATER SCHEDULE

TAG	LOCATION	STYLE	MOUNTING	MODEL	GRILLE COLOR	CFM	WATTAGE	BTUH	ELECTRICAL POWER			DIMENSIONS W X H X D	WEIGHT LB	REMARKS
									SOURCE	AMPS	MOCP			
WH-1	BREAK ROOM	WALL HEATER	RECESSED	AWH3150F	NORTHERN WHITE	100	1,500	5,118	120/1/60	12.5	----	16 X 20 X 4	25	NOTES: ALL
EUH-1	WATER ROOM	UNIT HEATER	WALL/CEILING	MUH03-21	---	350	5,000	10,200	208-240/1/60	12.5	----	---	27	NOTES: ALL
NOTES: 1. BASIS OF DESIGN IS MESTEK QMARK FAN FORCED ELECTRIC HEATER. 2. UNIT SHALL BE UL LISTED AND LABELED. 3. PROVIDE FACTORY WIRED THERMOSTATIC CONTROL. 4. ELECTRICAL POWER WIRING BY ELECTRICAL CONTRACTOR.														



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00



David Matero

Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

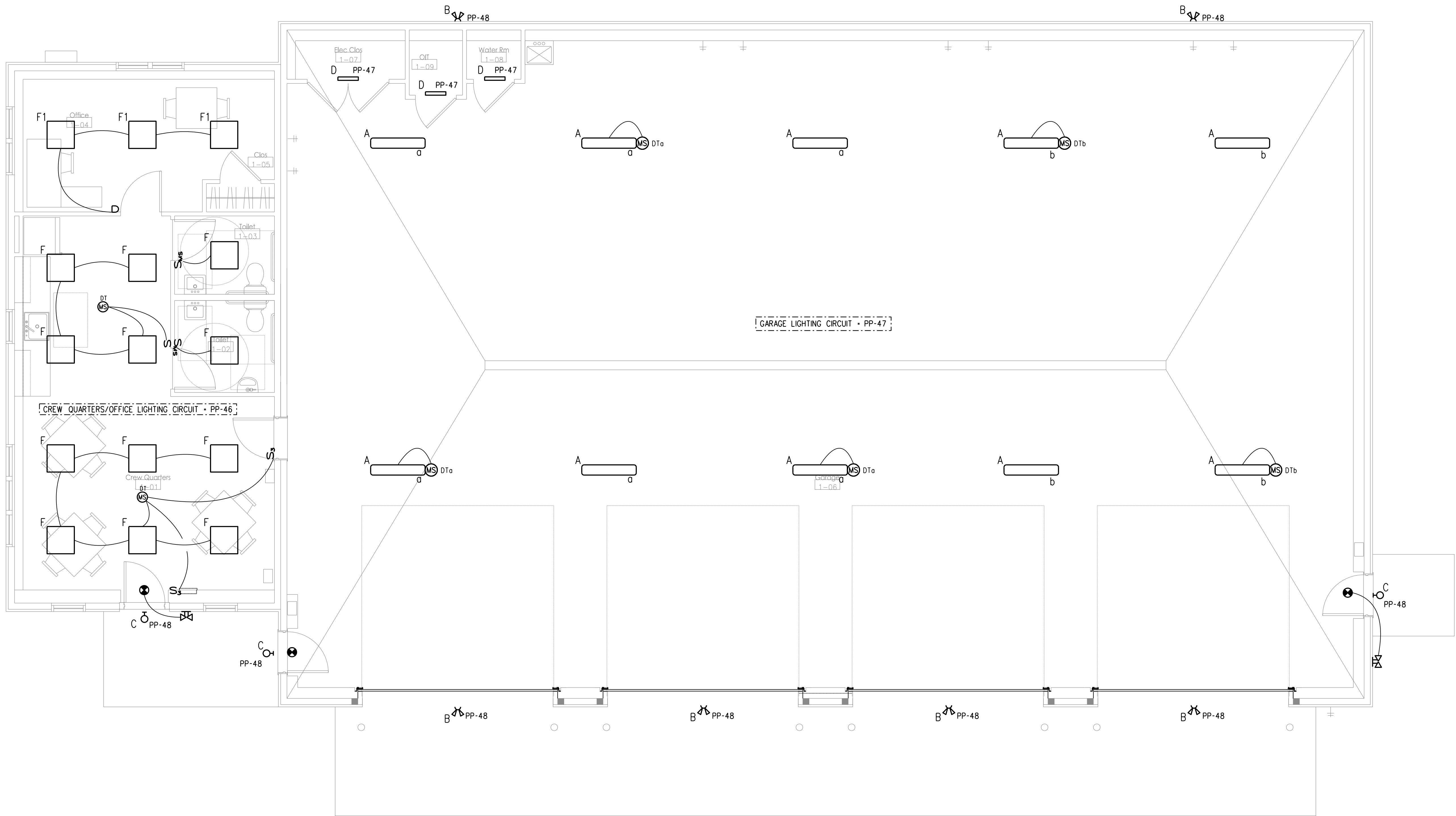
BY	DATE	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
STS	03.31.21	DSM		OT closest			

MECHANICAL SCHEDULES

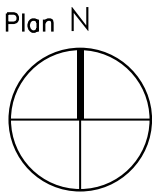
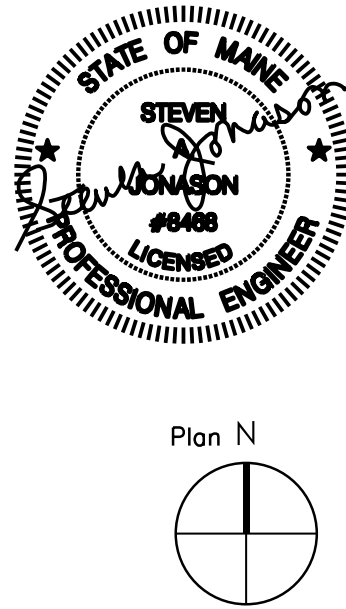
ISSUED FOR BID
SCALE AS SHOWN

SHEET NUMBER

M-300



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



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00

CASCO BAY
ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2828
www.cascobayengineering.com

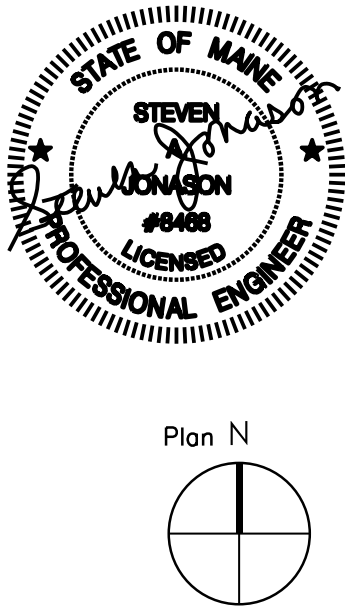
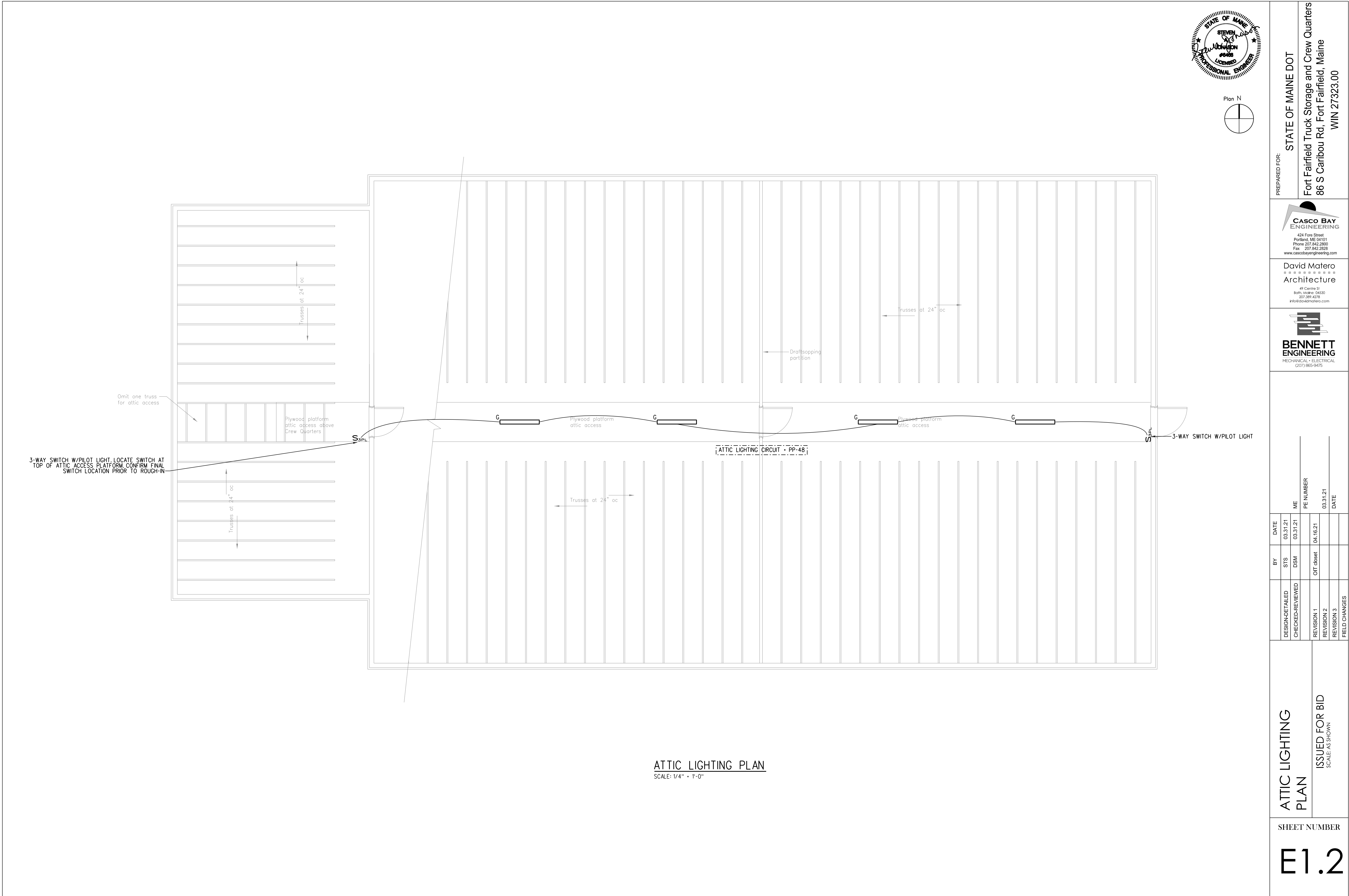
David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

BENNETT
ENGINEERING
MECHANICAL • ELECTRICAL
(207) 855-9475

DESIGN-DETAILED	CHECKED-REVIEWED	BY	DATE	ME	PE NUMBER
REVISION 1	REVISION 2	DSM	03.31.21	03.31.21	03.31.21
REVISION 3	FIELD CHANGES	OTJ	04.16.21		

FIRST FLOOR
LIGHTING PLAN
ISSUED FOR BID
SCALE: AS SHOWN

SHEET NUMBER
E1.1



STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00

CASCO BAY
ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2829
www.cascobayengineering.com

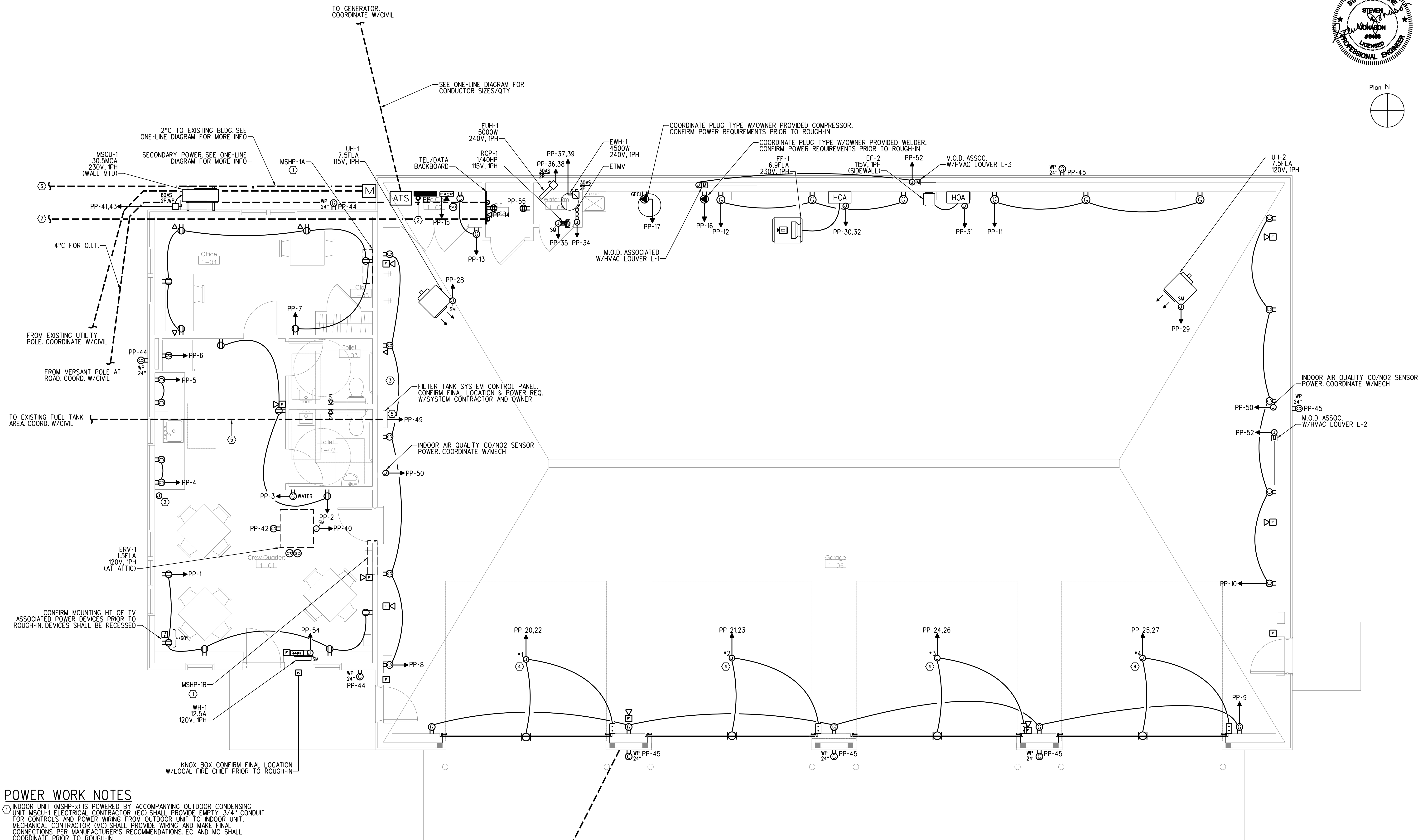
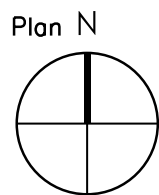
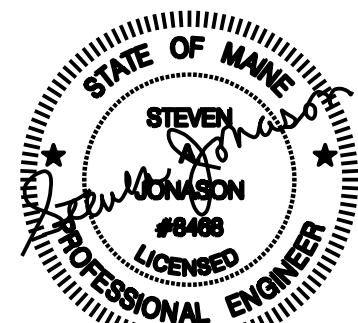
David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

BENNETT
ENGINEERING
MECHANICAL • ELECTRICAL
(207) 955-9475

DESIGN-DETAILED	CHECKED-REVIEWED	BY	DATE
STS	DSM	ME	03.31.21
REVISION 1	OT closet	PE NUMBER	03.31.21
REVISION 2		DATE	03.31.21
REVISION 3			
FIELD CHANGES			

ATTIC LIGHTING
PLAN
ISSUED FOR BID
SCALE: AS SHOWN

SHEET NUMBER
E1.2



POWER WORK NOTES

- ① INDOOR UNIT (MSHP-x) IS POWERED BY ACCOMPANYING OUTDOOR CONDENSING UNIT MSCU-1. ELECTRICAL CONTRACTOR (EC) SHALL PROVIDE EMPTY 3/4" CONDUIT FOR CONTROLS AND POWER WIRING FROM OUTDOOR UNIT TO INDOOR UNIT. MECHANICAL CONTRACTOR (MC) SHALL PROVIDE WIRING AND MAKE FINAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS. EC AND MC SHALL COORDINATE PRIOR TO ROUGH-IN.
- ② CONTRACTOR SHALL PROVIDE 1" EMPTY CONDUIT FROM PANEL "PP" TO KITCHENETTE. TERMINATE IN J-BOX. CONFIRM LOCATION W/ARCH PRIOR TO ROUGH-IN.
- ③ CONTRACTOR SHALL PROVIDE 4'X8' PLYWOOD BOARD, PAINTED BLACK, FOR FUEL TANK SYSTEM CONTROLS AND ALARM EQUIPMENT. CONFIRM SIZE & FINAL LOCATION OF BACKBOARD WITH OWNER AND/OR SYSTEMS CONTRACTOR PRIOR TO ROUGH-IN.
- ④ CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL OVERHEAD DOOR ASSOCIATED POWER DEVICES WITH MANUFACTURER'S INSTRUCTIONS. CONFIRM POWER REQUIREMENTS PRIOR TO ROUGH-IN.
- ⑤ CONTRACTOR SHALL PROVIDE STEEL CONDUITS STUBBED AT TANK ALARM PANEL OUT THROUGH FOUNDATION TO EXISTING FUEL TANK AREA; (4) 1-1/4" STEEL CONDUITS FOR THE FUEL TANK, (2) 1" STEEL CONDUITS FOR THE FLOOR DRAIN TANK. CONFIRM ELECTRICAL PROVISIONS AND ASSOCIATED POWER REQUIREMENTS. ALL CONDUCTORS SHALL BE PROVIDED BY TANK MANUFACTURER. COORDINATE WITH TANK SYSTEM VENDOR AND CIVIL PRIOR TO ROUGH-IN.
- ⑥ CONTRACTOR SHALL PROVIDE NEW 200A ATS AT EXISTING BUILDING. COORDINATE EXACT LOCATION WITH OWNER.
- ⑦ CONTRACTOR SHALL PROVIDE 3/4" CONDUIT FROM FUEL PUMP TO BUILDING FOR DATA LINE. COORDINATE W/CIVIL AND/OR O.I.T. PERSONNEL PRIOR TO ROUGH-IN.

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

STATE OF MAINE DOT
Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00

CASCO BAY
ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2929
www.cascobayengineering.com

David Matero
Architecture
49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

BENNETT
ENGINEERING
MECHANICAL-ELECTRICAL
(207) 865-8475

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	CAT	ME	PE NUMBER	DATE
03.31.21							
03.31.21							
04.16.21							
03.31.21							

FIRST FLOOR
POWER PLAN

ISSUED FOR BID
SCALE: AS SHOWN

SHEET NUMBER
E2.1

GENERAL NOTES

1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
2. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
3. MOUNT PANELS IN RESIDENTIAL SPACES SO NO CIRCUIT BREAKER HANDLE IS HIGHER THAN 44" AFF.
4. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED, ALL WIRING SHALL BE 2*12 AWG AND 1*12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE *10 AWG.
5. CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH *10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
6. TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
7. SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).
8. FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFR RECOMMENDATION.
9. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
10. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
11. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
12. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
13. PROVIDE TWO BALLASTS FOR EACH FIXTURE INDICATED AS REQUIRING DUAL LEVEL SWITCHING. ONE BALLAST TO CONTROL OUTER LAMPS AND THE SECOND BALLAST TO CONTROL INNER LAMPS(S).
14. COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
15. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
16. OPERATE ALL FLUORESCENT AND METAL HALIDE LAMPS FROM INITIAL INSTALLATION FOR 100 HOURS AT FULL OUTPUT (NO DIMMING) TO SEASON LAMPS AND STABILIZE LAMP COLOR.
17. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.
18. THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
19. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
20. OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9.
21. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
22. PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT OBTAIN VALUES FROM ENGINEER.
23. PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
24. IF BUILDING REQUIRES TWO SERVICE ENTRANCES, PROVIDE SIGNS PER NFPA 70-230.
25. OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2
26. PROVIDE AIR VAPOR BARRIER BOXES FOR WIRING DEVICES IN EXTERIOR WALLS AND INTERIOR SOUND CONTROL WALLS BETWEEN RESIDENT ROOMS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LESSCO MODEL NUMBER: VAPORBOX
27. MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE *12.
28. PROVIDE SIGN AT SERVICE ENTRANCE EQUIPMENT INDICATING TYPE AND LOCATION OF EMERGENCY GENERATOR PER NEC 700.7.
29. PROVIDE ELECTRICAL SUPPLY FOR FUTURE RADON FANS IN AREA OF ALL FUTURE RADON FAN LOCATIONS.

ABBREVIATIONS

A	AMP	LTG	LIGHTING
AC	ALTERNATING CURRENT, ABOVE COUNTER	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED
ADA	AMERICAN WITH DISABILITIES ACT		
AF	AMP FRAME	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCCB	MOLDED CASE CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL
AIC	AMPERES INTERRUPTING CAPACITY	MH	MANHOLE
AL	ALUMINUM	MS	MANAGEMENT INFORMATION SYSTEM
C	CONDUIT	MLO	MAIN LUGS ONLY
ATC	AUTOMATIC TEMPERATURE CONTROL	MTS	MANUAL TRANSFER SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED OF NURSE CALL
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CI	CAST IRON	NO	NORMALLY OPEN
CKT	CIRCUIT	NO.	NUMBER
CL	CENTERLINE	OL	OVERLOAD
CMP	CENTRAL MAINE POWER (ELECTRIC UTILITY)	P	POLE
CMU	CONCRETE MASONRY UNIT	PA	PUBLIC ADDRESS
CT	CURRENT TRANSFORMER	PB	PUSH BUTTON
CONC	CONCRETE	PF	POWER FACTOR
CS	CARBON STEEL	PH	PHASE
CU	COPPER	PNL	PANEL
CUH	CABINET UNIT HEATER	TP1-2	TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED
DAMP	DAMP LOCATION	PSNH	PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY)
EC	ELECTRICAL CONTRACTOR	PT	POTENTIAL TRANSFORMER
EF	EXHAUST FAN	PVC	POLYVINYL CHLORIDE
ERL	EXISTING RELOCATE	RL	ELECTRICAL EQUIPMENT TO BE RELOCATED
ERV	EXISTING REMOVE	RM	ELECTRICAL EQUIPMENT TO REMAIN
ETR	EXISTING TO REMAIN	RSC	RIGID STEEL CONDUIT
EUH	ELECTRIC UNIT HEATER	RTU	ROOF TOP UNIT
EWC	ELECTRICAL WATER COOLER	RV	ELECTRICAL EQUIPMENT TO REMOVE
FACP	FIRE ALARM CONTROL PANEL	RVNR	REDUCED VOLTAGE, NON-REVESING
FAPS	FIRE ALARM PULL STATION	SB	SMART BOARD
FRP	FIBER REINFORCED PLASTIC	SF	SUPPLY FAN
FVNR	FULL VOLTAGE, NON-REVERSING	SLD	SINGLE LINE DIAGRAM
FWU	FURNISHED WITH UNIT	SM	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT
DC	DIRECT CURRENT	SS	SOLID STATE
GFI	GROUND FAULT INTERRUPTER	SWBD-1	SWITCHBOARD NUMBER AS DESIGNATED
CND	GROUND	TC	TIME CLOCK
HD	HIGH INTENSITY DISCHARGE	TS	TRANSFER SWITCH
HOA	HAND-OFF-AUTOMATIC	T&B	TOP AND BOTTOM
HP	HORSEPOWER	TYP	TYPICAL
HPS	HIGH PRESSURE SODIUM	UG	UNDERGROUND
HZ	HERTZ	V	VOLT
ICB	INSULATED CASE CIRCUIT BREAKER	VA	VOLT-AMPERE
JB	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE
KAIC	THOUSAND AMP INTERRUPTING CAPACITY	W	WATT
KCMIL	THOUSAND CIRCULAR MIL	W/	WITH
KV	THOUSAND VOLTS	WP	WEATHERPROOF
KVA	THOUSAND VOLT-AMPS	XFMR	TRANSFORMER
KW	THOUSAND WATTS (KILOWATT)	XP	EXPLOSION PROOF
LC	LIGHTING CONTACTORS	3PH	THREE PHASE
LCP	LIGHTING CONTROL PANEL	4W	FOUR WIRE
LED	LIGHT EMITTING DIODE	3W	THREE WIRE
LP	LIGHTING PANELBOARD		

SYMBOL LEGEND

- SURFACE MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- RECESSED MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- Ⓜ ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN
- H, DS, DW ⊕ JUNCTION BOX, "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL UNIT, "DW" DENOTES DISHWASHER
- SM MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE MOUNTED AT UNIT
- Ⓛ DISCONNECT SWITCH, SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING. PROVIDED BY EC UNLESS NOTED OTHERWISE. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.
- Ⓛ COMBINATION MOTOR STARTER/ DISCONNECT SWITCH WITH AUXILIARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT. PROVIDED AND INSTALLED BY EC UNLESS NOTED OTHERWISE.
- VFD VARIABLE FREQUENCY DRIVE, PROVIDED BY MC, INSTALLED AND WIRED BY EC
- Ⓛ DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE. "AC" - MOUNTED WITHIN 6" OF COUNTERTOP "SW" - DENOTES SWITCHED OUTLET "NL" - EQUIPPED WITH NIGHTLIGHT LEGRAND *NTL885TRIC6 OR EQUAL
- Ⓛ QUAD RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- Ⓛ DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF, BOTTOM RECEPTACLE SWITCHED.
- Ⓛ GROUND FAULT DUPLEX RECEPTACLE 20A, 125V. TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF UNLESS OTHERWISE NOTED.
- Ⓛ REFRIGERATOR DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT RECEPTACLE AT 48" AFF.
- USB Ⓛ DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF WITH (2) USB CHARGING PORTS, COLOR BY ARCH. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- Ⓛ FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE. "CL" DENOTES CEILING MOUNTED
- Ⓛ RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- Ⓛ DRYER OUTLET 30 AMP, 240 VOLT, GROUNDING TYPE NEMA 14-30R 4-PRONG RECEPTACLE, FLUSH MOUNTED 18" AFF
- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS
- RACEWAY & WIRING RUN EXPOSED
- RACEWAY & WIRING RUN CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE
- HP-XX HOME RUN TO PANEL, WITH PANEL AND CIRCUIT NUMBER
- Ⓛ CABLE TV JUNCTION BOX "CTV", SIZE AS REQUIRED BY CABLE UTILITY
- Ⓛ TV OUTLET LOCATION, CABLE AND JACKS BY EC
- Ⓛ TEMPERATURE CONTROL PANEL, PROVIDED BY MC WIRED BY EC
- Ⓛ PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR, FURN W/ DOOR OPERATOR, WIRED BY EC
- Ⓛ DOOR PUSHBUTTON-DOORBELL
- Ⓛ DOOR ELECTRIC STRIKE
- ⓁS DOOR CHIME WITH STROBE-ADA COMMUNICATIONS REQUIREMENT
- Ⓛ LIGHTING FIXTURES, CAPITAL LETTERS DENOTE TYPE PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. "ab" INDICATES INBOARD LAMPS CONTROLLED BY OUTBOARD SWITCHED "a" AND "b". DIAGONAL OR "NL" INDICATES NIGHT LIGHT (UNSWITCHED)
- Ⓛ SELF CONTAINED EMERGENCY LIGHT W/2 HEADS DUAL-LITE (LED) MODEL LZ25NI-03L, 25 WATTS FOR 90 MINUTES, COLOR BY ARCHITECT
- BAT Ⓛ EMERGENCY LIGHTING BATTERY PACK DUAL-LITE No LM130-12VI-0 SELF-DIAGNOSTIC
- Ⓛ INTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No CPRD 1203L, COLOR BY ARCHITECT
- Ⓛ EXTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No OCRO 1203L, COLOR BY ARCHITECT
- Ⓛ EXIT LIGHT FIXTURE, UNSWITCHED, DUAL-LITE SESRWE OR APPROVED EQUAL
- Ⓛ EXIT/ EMERGENCY LIGHT COMBO, DUAL-LITE No EVCU-R-D4-10R APPROVED EQUAL COLOR BY ARCHITECT
- Ⓛ SECURITY CAMERA LOCATION, COORDINATE AND PROVIDE DUPLEX RECEPTACLE, DATA AND CONDUIT PER MANUFACTURERS RECOMMENDATIONS
- DT Ⓛ CEILING MOUNTED MOTION SENSOR; SENSORS AND RELAYS TO CONTROL CIRCUITS SPACES INDICATED. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED. DT INDICATES DUAL TECHNOLOGY
- PIR Ⓛ PIR INDICATED PASSIVE INFRARED TECHNOLOGY
- SWs WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- Ss SINGLE POLE SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- Spl SWITCH WITH PILOT LIGHT, SWITCH SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE
- Srf REMOTE RANGE HOOD FAN SWITCH, CONNECT TO HOOD FAN THRU HOOD JUNCTION BOX.
- Srl REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX.
- Sb BURNER SAFETY SWITCH, PROVIDE WITH RED PLATE, MOUNTED 72" AFF
- Ds SINGLE POLE DIMMER SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- Ds PHOTOCELL
- LC LIGHTING CONTACTOR
- TC TIMECLOCK
- ▼ TELEPHONE/DATA DUAL JACK, MOUNT 18" AFF, RUN TWO CABLES BACK TO TBB. SEE SPECIFICATIONS FOR FURTHER INFORMATION
- ▼ DATA JACK, RUN TWO CABLES BACK TO TBB. SEE SPECIFICATIONS FOR FURTHER INFO
- CL Ⓛ FLUSH FLOOR MOUNTED TELEPHONE/DATA DUAL JACK, RUN TWO CABLES BACK TO TBB. "CL" DENOTES CEILING MOUNTED
- ▼ TELEPHONE JACK, MOUNT 18" AFF UNLESS NOTED OTHERWISE, RUN ONE CABLE BACK TO TBB.
- WIFI ROUTER, RUN CABLE BACK TO TBB OR IT ROOM. MOUNT ABOVE CEILING, "W" DENOTES WALL MOUNTED AT 72" AFF
- Ⓛ INTERCOM PANEL IN UNIT
- Ⓛ INTERCOM PANEL AT RECEPTION OR MAIN ENTRY
- Ⓛ MEDIA PANEL OR WIRING BOX FOR LOW VOLTAGE CONNECTIONS WITHIN TENANT UNIT. RUN CAT 6 CABLE FROM EACH UNIT MEDIA PANEL LOCATION BACK TO TBB
- Ⓛ CARD READER LOCATION: PROVIDE BOX AND 3/4" CONDUIT TO NEAREST LOCATION ABOVE SUSPENDED CEILING. PROVIDE 120V DOOR STRKE POWER FROM NEAREST RECEPTACLE CIRCUIT.
- Ⓛ FIRE ALARM CONTROL PANEL WITH DEDICATED TELEPHONE JACK
- Ⓛ FIRE ALARM ANNUNCIATOR PANEL
- Ⓛ FIRE EXTINGUISHER ELECTRONIC MONITOR-SHALL BE ACCOMPLISHED THROUGH USE OF AN ADDRESSABLE INTERFACE DEVICE AND SHALL PROVIDE INPUT TO THE FACP
- Ⓛ FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATING. "MH" DENOTES MINIHORN, "CL" DENOTES CEILING MOUNTED. NO DESIGNATION EQUALS 15cd
- Ⓛ FIRE ALARM PULL STATION, MOUNT 48" AFF
- Ⓛ FIRE ALARM VISUAL STROBE ONLY. FLUSH MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATINGS. "CL" DENOTES CEILING MOUNTED
- Ⓛ SYSTEM CONNECTED SMOKE / CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE
- 135 Ⓛ SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- Ⓛ SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED.
- ER Ⓛ SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. "ER" DENOTES ELEVATOR RECALL
- SB Ⓛ SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SOUNDER BASE
- Ⓛ CARBON MONOXIDE DETECTOR
- Ⓛ DUCT SMOKE DETECTOR & TEST STATION
- Ⓛ FIRE/SMOKE DAMPER, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING CONNECTIONS AND FIRE ALARM DUCT SMOKE DETECTORS, ADDRESSABLE MODULES AND PROGRAMMING.
- Ⓛ SPRINKLER SYSTEM FLOW SWITCH } SUPPLIED BY SPRINKLER CONTRACTOR
- Ⓛ SPRINKLER SYSTEM TAMPER SWITCH } WIRED BY EC, VERIFY LOCATIONS WITH SPRINKLER CONTRACTOR.
- H-M Ⓛ MAGNETIC DOOR HOLD



STATE OF MAINE DOT

PREPARED FOR:

Fort Fairfield Truck Storage and Crew Quarters
86 S Caribou Rd, Fort Fairfield, Maine
WIN 27323.00

CASCO BAY ENGINEERING

424 Fors Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2929
www.cascobayengineering.com

David Matero
Architecture

49 Centre St
Bath, Maine 04530
207.389.4278
info@davidmatero.com

BENNETT ENGINEERING

MECHANICAL • ELECTRICAL
(207) 865-9475

DATE	03.31.21	BY	STS	DESIGN-DETAILED	03.31.21	ME	PE NUMBER	03.31.21	DATE
	03.31.21		DSM	CHECKED-REVIEWED					
				REVISION 1					
				REVISION 2					
				REVISION 3					
				FIELD CHANGES					

ELECTRICAL NOTES, LEGEND & DETAILS

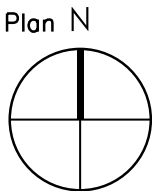
ISSUED FOR BID
SCALE: AS SHOWN

SHEET NUMBER

E3.0

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER AND MODEL NUMBER	LAMP INFO	REMARKS
A	COLUMBIA LIGHTING CAT No LXEW4-35H-FAW-EU	173W/3500K LED	4' SURFACE MOUNTED LINEAR HIGH BAY w/WIDE DISTRIBUTION & FROSTED ACRYLIC IMPACT RESISTANT LENS
B	LITHONIA LIGHTING CAT No DSXW2 LED 30C 1000 40K TFTM 120 PE DD*** (finish color)	109W/4000K LED	EXTERIOR BUILDING MOUNTED WALLPACK w/INTEGRAL PHOTOCELL LOCATED AT OVERHEAD DOORS AND SIDES OF BLDG
C	LITHONIA LIGHTING CAT No DSXW1 LED 10C 530 40K TFTM 120 DD*** (finish color)	20W/4000K LED	EXTERIOR BUILDING MOUNTED WALLPACK w/INTEGRAL PHOTOCELL LOCATED AT MAN DOORS
D	LITHONIA LIGHTING FMMCL18 840 S1	14W/4000K LED	18" WALL MOUNTED FIXTURE W/PULLCHAIN. CENTERED ABOVE ELEC & WATER CLOSET DOORS
F	COLUMBIA LIGHTING LCAT22-35LWG-R-EU	23W/3500K LED	2X2 ARCHITECTURAL TROFFER. CONFIRM CEILING TYPE & FIXTURE MOUNTING ACCESSORIES REQUIRED PRIOR TO ROUGH-IN
F1	COLUMBIA LIGHTING LCAT22-35VLG-R-EDU	40W/3500K LED	2X2 DIMMABLE ARCHITECTURAL TROFFER LOCATED AT OFFICE. CONFIRM CEILING TYPE & FIXTURE MOUNTING ACCESSORIES REQUIRED PRIOR TO ROUGH-IN
G	LITHONIA LIGHTING CLX L48 4000LM SEF FDL MVOLT 35K 80CRI finish/mounting	27.5W/3500K LED	4' STRIPLIGHT LOCATED AT ATTIC



AT - Amp Trip
P - Poles
A - Amps
CA - Connected Amperes
DF - Demand Factor (1 - .1
DA - Demand Amperes
DW - Demand Watts
MLO - Main Lug Only
MCB - Main Circuit Breaker



**BENNETT
ENGINEERING**
MECHANICAL • ELECTRICAL
(207) 865-9475

ONE-LINE DIAGRAM & PANEL SCHEDULE

ISSUED FOR BID
SCALE: AS SHOWN

E3.1