

State of Maine  
Department of Transportation



Truck Storage Garage  
Sherman, Maine

Aroostook County

WIN # 025240.00

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

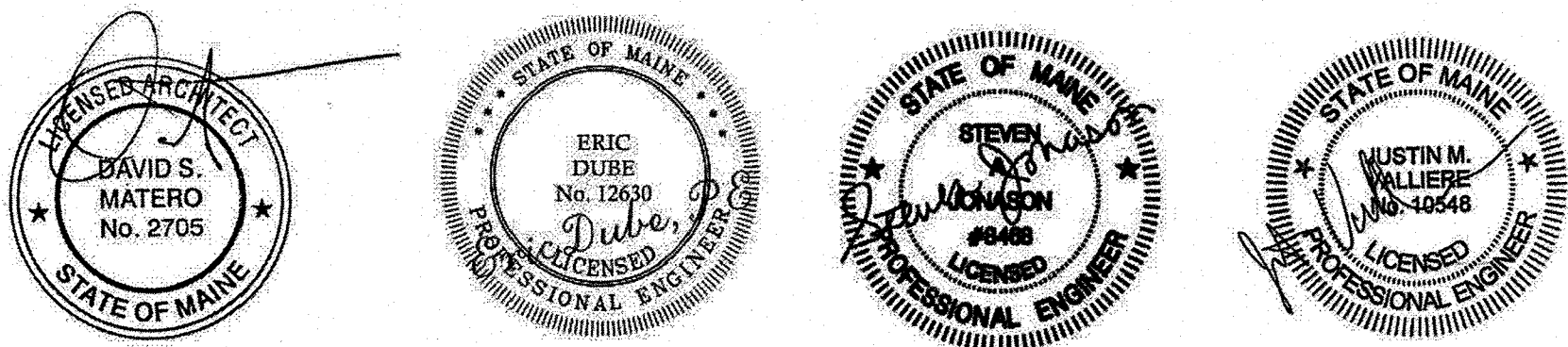
Design Loading:  
Live Load                      Slab-on-grade 400 psf  
                                         uniform load  
Ground Snow Load        100 PSF  
Wind Load                   115 MPH

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



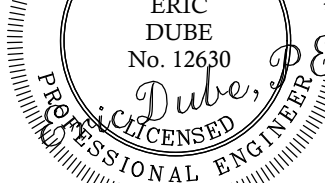
12 Qualay Drive, Sherman, Maine  
Locus Map - not to scale

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|                  |                                               |
|------------------|-----------------------------------------------|
| Project Location | 12 Qualay Road, Sherman off exit 264 on Rt 95 |
| Program Area     | Maintenance and Operations                    |
| Scope of Work    | 9,000 sf Truck storage garage and site work   |

|                                                                                                                         |                          |               |                                          |                                              |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------------------|----------------------------------------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION                                                                          | APPROVED                 | DATE          | COMMISSIONER: <i>[Signature]</i> 1-10-22 | CHIEF ENGINEER: <i>[Signature]</i> 1-13-2022 |
|                                                                                                                         |                          |               |                                          |                                              |
|                                                                                                                         |                          |               |                                          |                                              |
| David Matero<br>*****<br>Architecture<br>49 Centre Street<br>Bath, Maine 04501<br>207.389.4278<br>info@dcavidmatero.com |                          |               |                                          |                                              |
|                                                                                                                         |                          |               |                                          |                                              |
|                                                                                                                         | DATE                     | 11/18/21      | ME-<br>PE NUMBER                         | 2020.01.03<br>DATE                           |
| BY                                                                                                                      | DSM                      |               |                                          |                                              |
| DESIGN/DETAILED                                                                                                         | CHECKED/REVIEWED         | REVISION 1    | REVISION 2                               | REVISION 3                                   |
|                                                                                                                         |                          | FIELD CHANGES |                                          |                                              |
| Cover Sheet                                                                                                             | Issued for Bid           |               |                                          |                                              |
|                                                                                                                         | SHEET NUMBER<br><b>1</b> |               |                                          |                                              |



## GENERAL NOTES

- 3) 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 THE SPECIFICATIONS AND AS FURTHER DETAILED IN THE SPECIFICATIONS.
- 4) 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.
- 5) 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.
- 6) 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 AND FROM ANY AGENCIES OF THE STATE OF MAINE (E.G. MAINE DEPARTMENT OF TRANSPORTATION). THE CONTRACTOR SHALL POST ALL BONDS AS REQUIRED, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- 7) PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR IS TO INFORM ALL AREA UTILITY COMPANIES AND TO OBTAIN THE LOCATION OF ALL UTILITIES. IF DITCHED OR UNLOCATED UTILITIES ARE 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.
- 8) THE PROJECT DRAWINGS ARE GENERALLY SCHEMATIC AND INDICATE THE POSSIBLE LOCATION OF EXISTING UNDERGROUND UTILITIES. INFORMATION ON EXISTING UTILITIES HAS BEEN OBTAINED FROM THE TOWN OF BURLINGTON AND THE WORK OF UTILITY COMPANIES. MINING PERMIT 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 THE DEPTH, LOCATION AND ELEVATION OF ALL UTILITIES. IF ANY UTILITIES, WHERE THOSE SERVICES ARE TO BE LEFT IN PLACE, THE CONTRACTOR IS TO PROVIDE ADEQUATE MEANS OF PROTECTING THEM PRIOR TO ANY EXCAVATION. ANY 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.
- 9) OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOSTS, ETC. WITHIN TEN FEET OF ANY ELECTRICAL LINE. THE CONTRACTOR MUST OPERATE CLOSER THAN 10' TO THE CONTRACTOR MUST CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS BEFORE ENCOACHING ON THIS REQUIREMENT.
- 10) 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 IN THE OFFICE. THE DESIGN ENGINEER'S PAYMENT OF ANY APPROVALS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT AN APPROPRIATE REVISION CAN BE MADE PRIOR TO BIDDING.
- 11) THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND THE LOCATION OF THE BUILDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS ARE CONCEPTUAL. ALL SITE DIMENSIONS ARE REFERENCED TO PROPERTY LINES, THE FACE OF CURBS, OUTSIDE FACE OF WALLS, OR EDGE OF PAVING UNLESS OTHERWISE NOTED.
- 12) 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 AGENCIES AND INSPECTORS.
- 13) 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.
- 14) ALL EXCAVATION SHALL BE BACKFILLED TO EXISTING GRADE BEFORE THE END OF THE DAY OR ADEQUATELY PROTECTED FROM DANGER TO HUMANS AND ANIMALS.
- 15) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FIELD LAYOUT. THE OWNER WILL PROVIDE A BIDDING AND WORKMANSHIP CONSTRUCTION SETTING WHICH WILL BE USED TO LAYOUT THE PROJECT. THE CONTRACTOR SHALL GUARANTEE THE FAITHFUL REMEDY OF ANY DEFECTS DUE TO FAULTY MEASUREMENTS, WHETHER OR NOT THE CONTRACTOR SETTING OR 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 THE CONTRACTOR SHALL BE REQUIRED BEFORE ANY CONSTRUCTION OCCURS ON THE PROJECT. DURING CONSTRUCTION, THERE SHALL BE WEEKLY 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 MAY BE REQUIRED AND USED IF THE CONTRACTOR DETERMINES THAT THE PLANS ARE INSUFFICIENT. THE REPRESENTATIVES, OR STATE/LOCAL/FEDERAL INSPECTORS AT NO ADDITIONAL COST TO THE

| EXISTING          | LEGEND                       | PROPOSED          |
|-------------------|------------------------------|-------------------|
|                   | GRANITE MONUMENT - 3" OFFSET |                   |
| IPF               | IRON PIN FOUND/SET           | IPS               |
| IPF               | IRON ROD FOUND               |                   |
| CRF               | CAPPED IRON ROD FOUND        |                   |
| DHF               | DRILL HOLE FOUND             |                   |
| MON               | GRANITE MONUMENT FOUND       |                   |
| ---               | STREET LINE                  | ---               |
| ---               | LOT SETBACKS                 | ---               |
| ---               | PROPERTY LINE                | ---               |
| ---               | ABUTTOR LINE                 | ---               |
|                   | "NO CUT" BUFFER              |                   |
|                   | WETLANDS                     |                   |
|                   | EDGE OF ROAD/TRAVELLED WAY   |                   |
| IPF 69            | SOIL TEST PIT                | IPF 69            |
| --- 101 ---       | CONTOUR                      | --- 101 ---       |
| 327x60 x 327.6    | SPOT GRADE                   | 327x60 x 327.6    |
| IPS               | GAS SHUT-OFF                 |                   |
| IP                | UTILITY POLE                 |                   |
| --- OE ---        | OVERHEAD ELECTRICAL          | --- OE ---        |
| --- UE&T ---      | UNDERGROUND ELECTRICAL       | --- UE&T ---      |
| T                 | ELECTRICAL TRANSFORMER       | T                 |
| --- 8'-W 8' W --- | FIRE HYDRANT                 | --- 8'-W 8' W --- |
| IP                | WATER GATE                   |                   |
| --- 12' S ---     | SEWER LINE                   | --- 12' S ---     |
| SH-1              | SEWER MANHOLE                | SH-1              |
| DH-1              | DRAINAGE MANHOLE             | DH-1-1            |
| CS-1              | GATCH BASIN                  | CS-1              |
| --- UD/SO ---     | UNDERDRAIN/STORMDRAIN        | --- UD/SO ---     |
| --- UD ---        | UNDERDRAIN                   | --- UD ---        |
|                   | SILT FENCE                   | ---               |
|                   | TEMP. STONE CHECK DAM        | ---               |
|                   | GRADING AND FLOW DIRECTION   |                   |
|                   | HAZ BAYES                    |                   |
|                   | EROSION CONTROL BLANKET      |                   |

PREPARED FOR:



**David Matero**  
■■■■■■■■■■■■■■■■■■■■  
**Architecture**  
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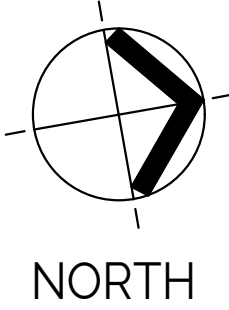
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| DESIGN-DETAILED | DL | 03-06-20 | ME-<br>PE NUMBER |
| ISSUED FOR BID  | ED | 03-06-20 |                  |
| REVISION 1      |    |          |                  |
| REVISION 2      |    |          | 20211117         |
| REVISION 3      |    |          | DATE             |

MDOT SHERMAN

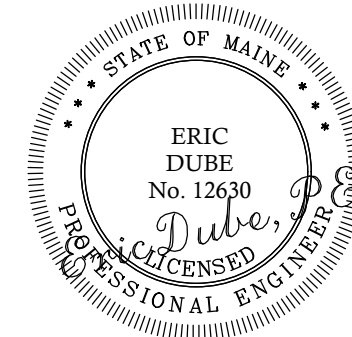
## EXISTING SITE PLAN

SHEET NUMBER

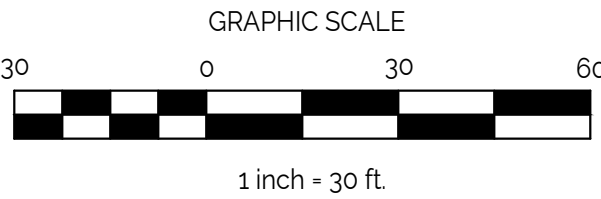
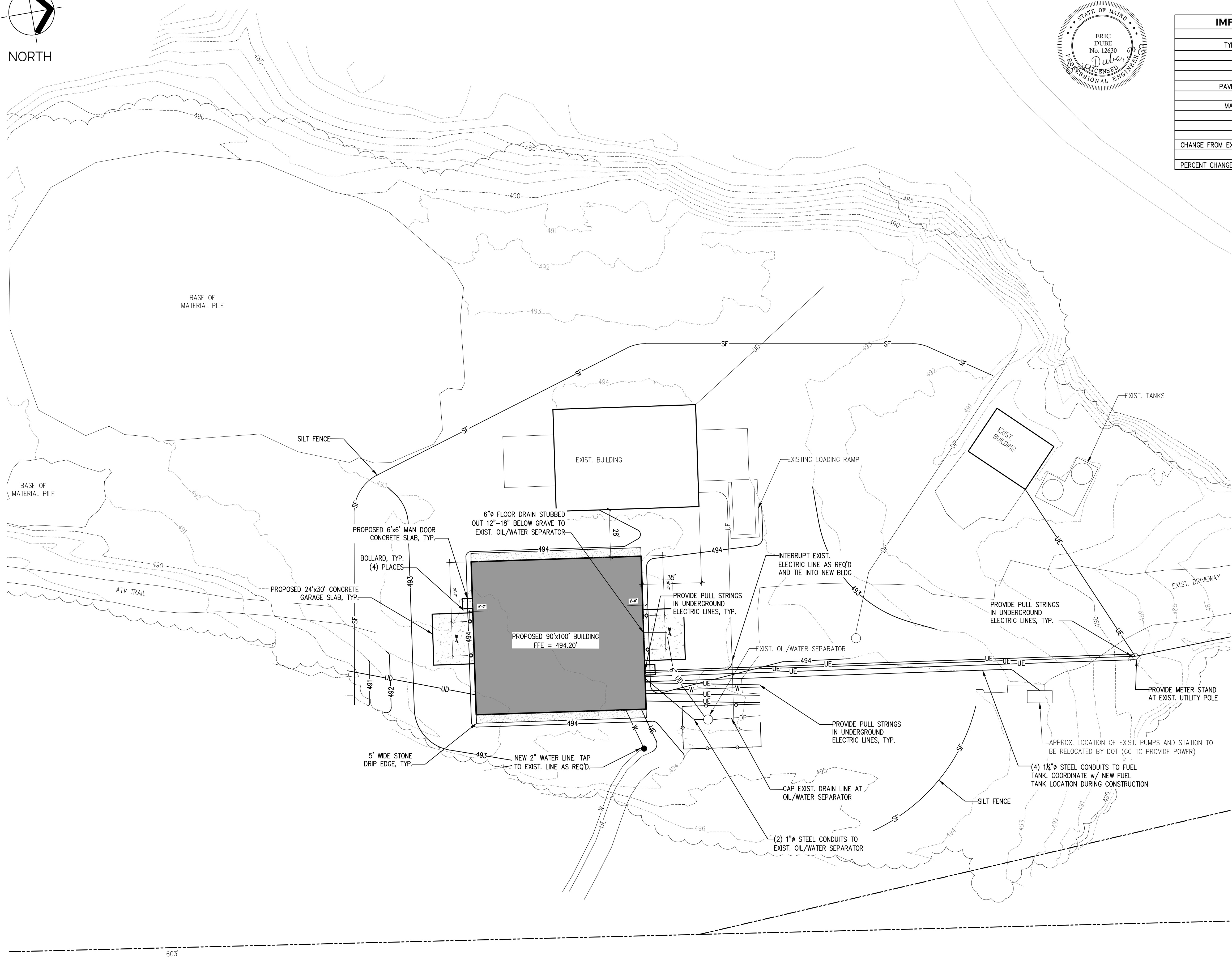
# C100



NORTH



| IMPERVIOUS AREA TABLE      |                         |                         |
|----------------------------|-------------------------|-------------------------|
| TYPE OF COVER              | EXISTING IMP. AREA (SF) | PROPOSED IMP. AREA (SF) |
| BUILDING                   | 13,963                  | 23,592                  |
| PAVEMENT/GRAVEL            | 27,895                  | 27,266                  |
| MATERIAL PILES             | 41,592                  | 41,592                  |
| TOTAL                      | 83,450                  | 92,450                  |
| CHANGE FROM EXISTING (+/-) |                         | 9,000                   |
| PERCENT CHANGE (+/-)       |                         | 1.12%                   |



PREPARED FOR:  
STATE OF MAINE DOT  
Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 025240.00



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49 Centre Street  
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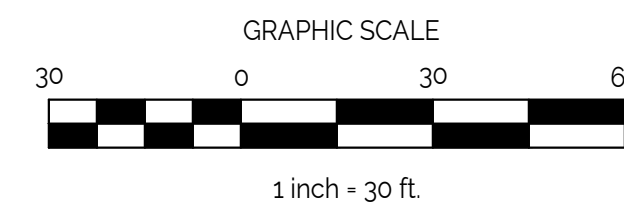
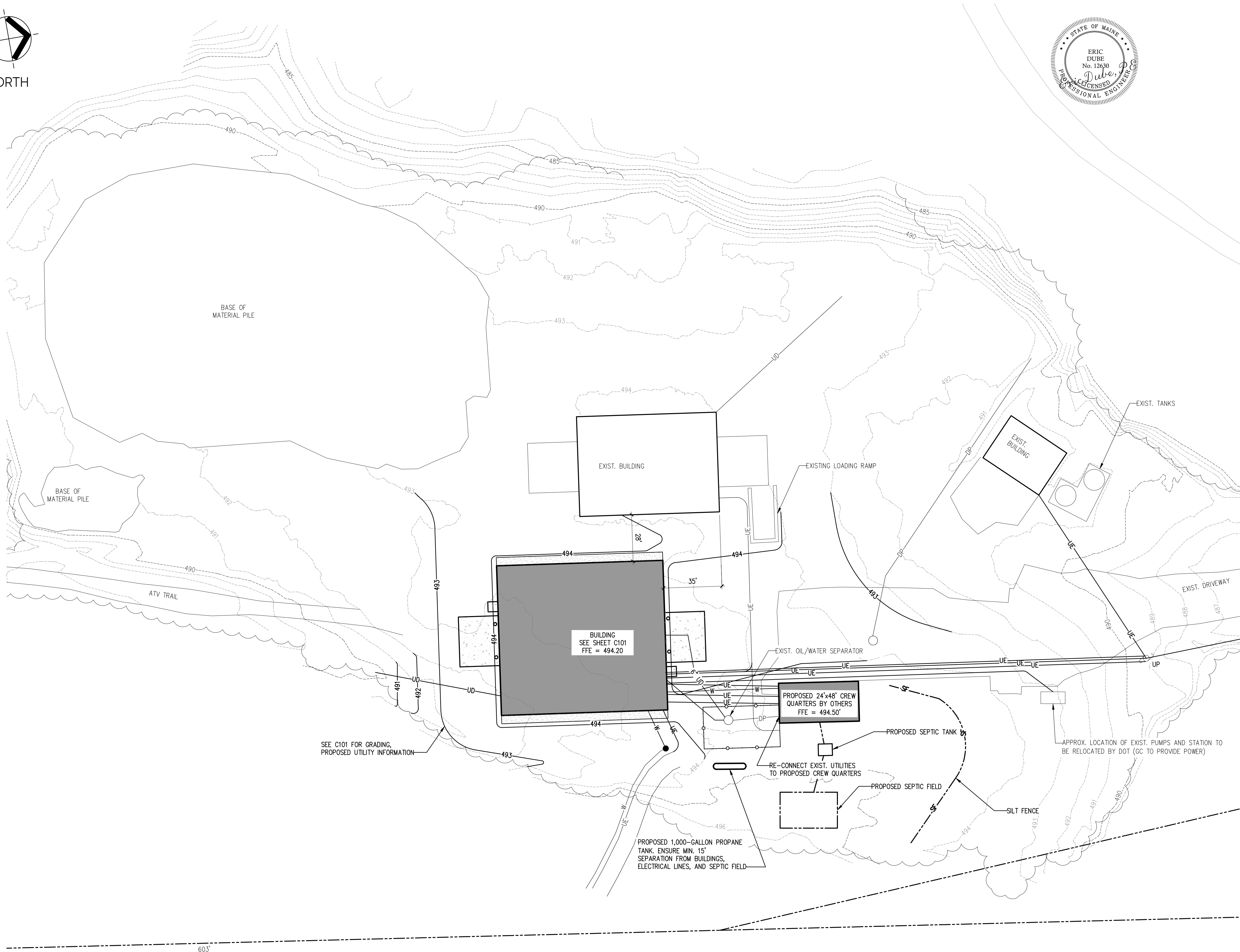
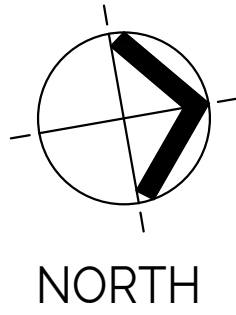


| DESIGN-DETAILED | BY | DATE     | ME-       |
|-----------------|----|----------|-----------|
| ISSUED FOR BID  | DL | 03-06-20 | PE NUMBER |
| REVISION 1      | ED | 03-06-20 | 2021117   |
| REVISION 2      |    |          | DATE      |
| REVISION 3      |    |          |           |
| FIELD CHANGES   |    |          |           |

MDOT SHERMAN  
PROPOSED GRADING AND  
DRAINAGE PLAN - PHASE 1

SHEET NUMBER

C101



|                                                                                                                                                                                |                 |                                                                                  |          |           |            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------|----------|-----------|------------|--|
| PREPARED FOR:                                                                                                                                                                  |                 | STATE OF MAINE DOT                                                               |          |           |            |  |
|                                                                                                                                                                                |                 | Sherman Truck Storage Garage<br>12 Qualey Drive, Sherman, Maine<br>WIN 025240.00 |          |           |            |  |
| <br><b>TRILLIUM</b><br>ENGINEERING GROUP<br>189 MAIN STREET SUITE 200<br>YARMOUTH, ME 04096 |                 |                                                                                  |          |           |            |  |
| David Matero<br>*****<br><b>Architecture</b><br>49 Centre Street<br>Bath, Maine 04530<br>207.389.4078<br>info@davidmatero.com                                                  |                 |                                                                                  |          |           |            |  |
| <br><b>BENNETT<br/>ENGINEERING</b><br>MECHANICAL • ELECTRICAL<br>(207) 865-9075             |                 |                                                                                  |          |           |            |  |
| MDOT SHERMAN                                                                                                                                                                   | DESIGN-DETAILED | BY                                                                               | DATE     |           |            |  |
|                                                                                                                                                                                | ISSUED FOR BID  | DL                                                                               | 03-06-20 | ME-       |            |  |
|                                                                                                                                                                                |                 | ED                                                                               | 03-06-20 | PE NUMBER |            |  |
|                                                                                                                                                                                | REVISION 1      |                                                                                  |          |           | 2021.11.17 |  |
|                                                                                                                                                                                | REVISION 2      |                                                                                  |          |           | DATE       |  |
| PROPOSED GRADING AND<br>DRAINAGE PLAN - PHASE 2                                                                                                                                | REVISION 3      |                                                                                  |          |           |            |  |
|                                                                                                                                                                                | FIELD CHANGES   |                                                                                  |          |           |            |  |
|                                                                                                                                                                                |                 |                                                                                  |          |           |            |  |
| SHEET NUMBER                                                                                                                                                                   |                 |                                                                                  |          |           |            |  |
| C102                                                                                                                                                                           |                 |                                                                                  |          |           |            |  |

|                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>NOTE:<br/>1. COMPACT GRAVEL SUBBASE, BASE COURSE TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.<br/>2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.</p> |  | <p>PLASTIC 'ELECTRIC' MARKER TAPE PLACED APPROX. 12" BELOW FINISH GRADE<br/>4" LOAM &amp; SEED (OR PARKING SECTION)<br/>36" MIN.<br/>12"<br/>30" MIN.<br/>6"<br/>6" MIN.<br/>12" MIN.<br/>2'-0" MIN.</p> | <p>EXISTING LINE<br/>10' MAXIMUM<br/>NEW VALVE<br/>NEW SLEEVE OR TEE<br/>BLOW-OFF<br/>NEW LINE TO BUILDING<br/>3/4" TO 1" CORPORATION FOR TESTING AND DISINFECTION BY CONTRACTOR</p> <p>PLAN VIEW</p> <p>PROCEDURES:<br/>1. NEW VALVE TO REMAIN SHUT AND ONLY OPERATED BY DISTRICT FOR FLUSHING, TESTING, DISINFECTING, ETC.<br/>2. THE TESTING CORPORATION LOCATION MUST BE ACCESSIBLE BY:<br/>A. LEAVING THE EXCAVATION OPEN DURING TESTING – DISINFECTION PERIOD, OR BY:<br/>B. INSTALLING A "JUMPER LINE" TO THE GROUND SURFACE WITH THE CORPORATION BEING AN ANGLE VALVE IN A VALVE BOX, OR BY USING A SERVICE BOX AND ROD. AFTER COMPLETION OF THE HYDROSTATIC TEST AND THE DISINFECTION PROCEDURE:<br/>(1) THE ANGLE VALVE IS SHUT,<br/>(2) THE "JUMPER LINE" IS CUT OFF BELOW THE GROUND, AND<br/>(3) THE BOX IS PULLED.</p> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

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 TEMPORARY 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 PERMANENTLY 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 (DSO = 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 SEEDD. 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 SEEDD 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. AFTER EACH SIGNIFICANT RAINFALL AND RESEEDDED AS NEEDED. EXPOSED AREAS WILL BE RESEEDDED 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

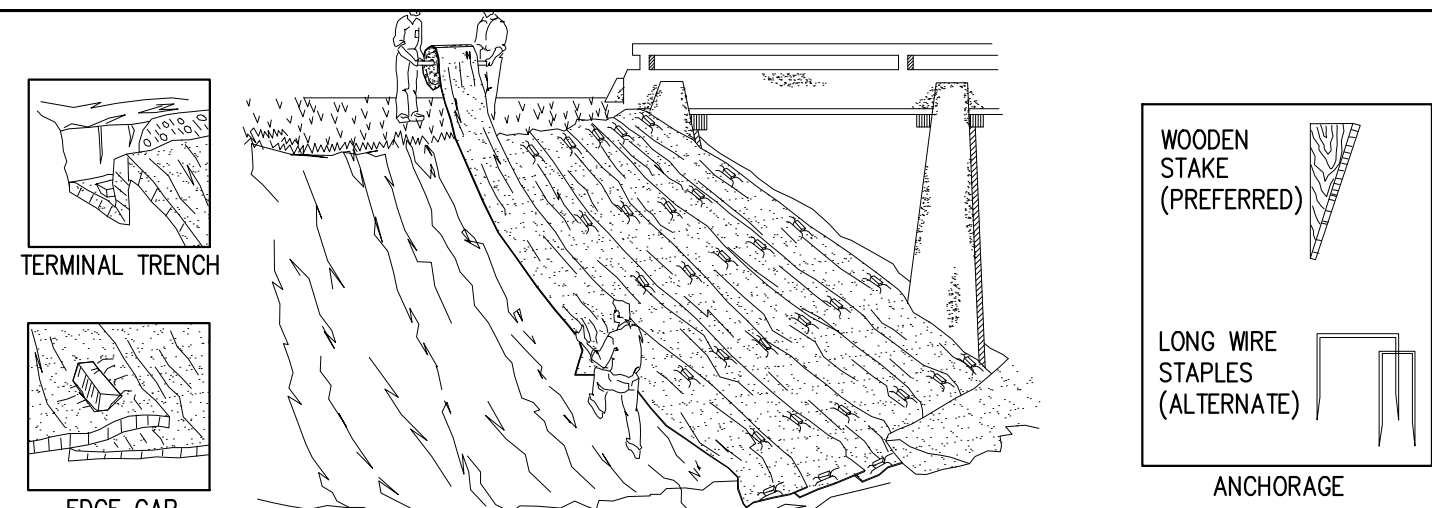
1. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
2. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHALL BE LIMITED TO THOSE AREAS TO BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. AT THE 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 SEEDD, 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 SEEDD 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 SEEDD 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

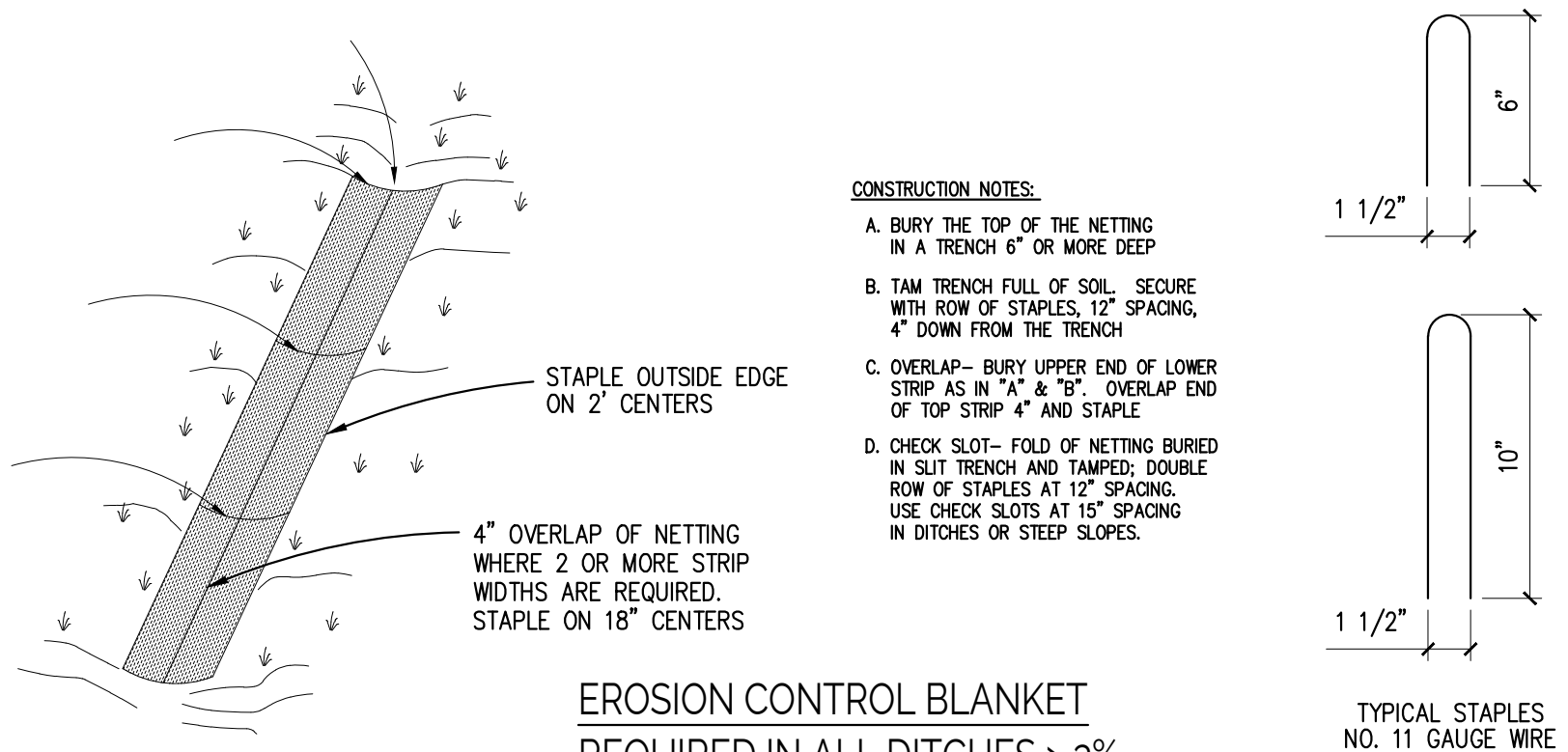
1. LONG-TERM PROVISIONS FOR PERMANENT MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES AFTER ACCEPTANCE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER OR THEIR DESIGNEE. SUCH RESPONSIBILITIES INCLUDE BUT ARE NOT LIMITED TO THOSE DETAILED AS FOLLOWS:
- A. PARKING LOT SHALL BE MECHANICALLY 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 ON 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

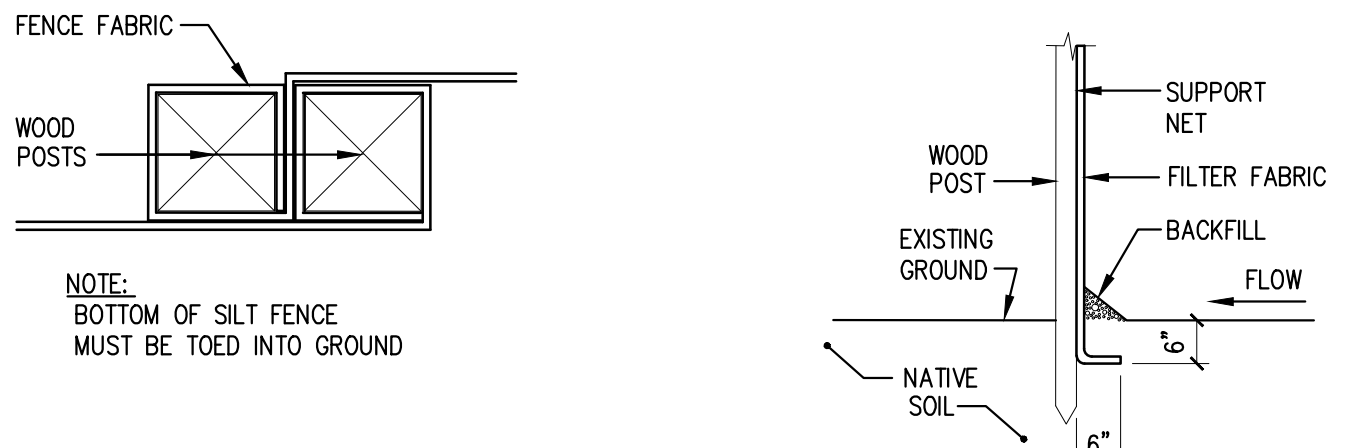
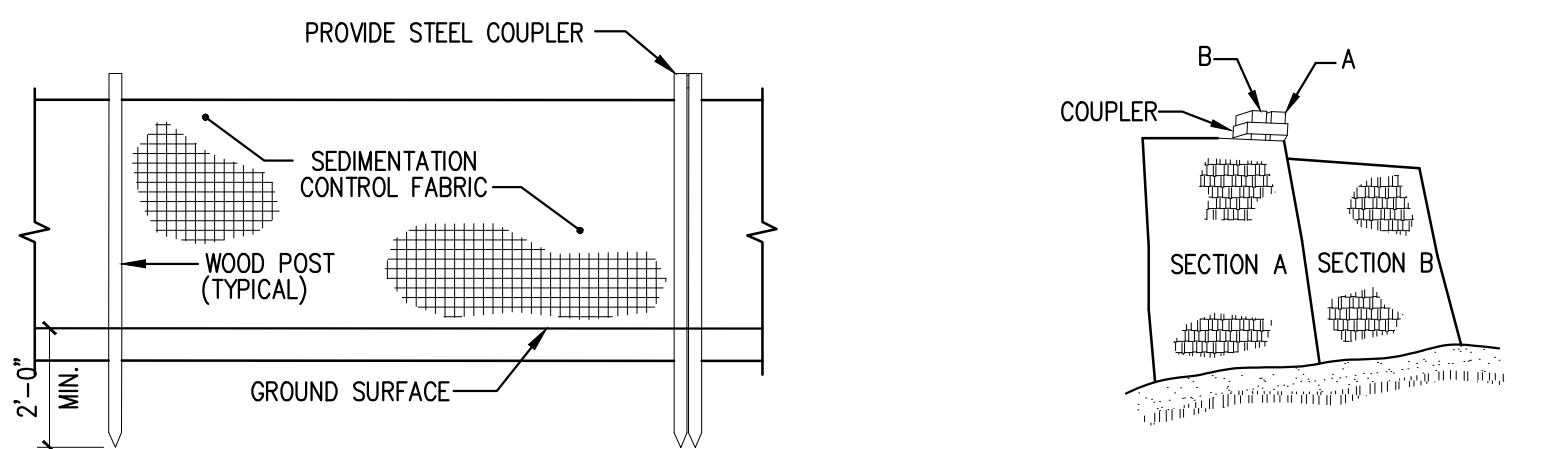
REQUIRED ON ALL SLOPES > 8% (WINTER CONSTRUCTION)  
REQUIRED ON ALL SLOPES > 15% (SUMMER CONSTRUCTION)

EROSION CONTROL BLANKET  
GENERAL INSTALLATION GUIDELINES ON SLOPES  
NTS

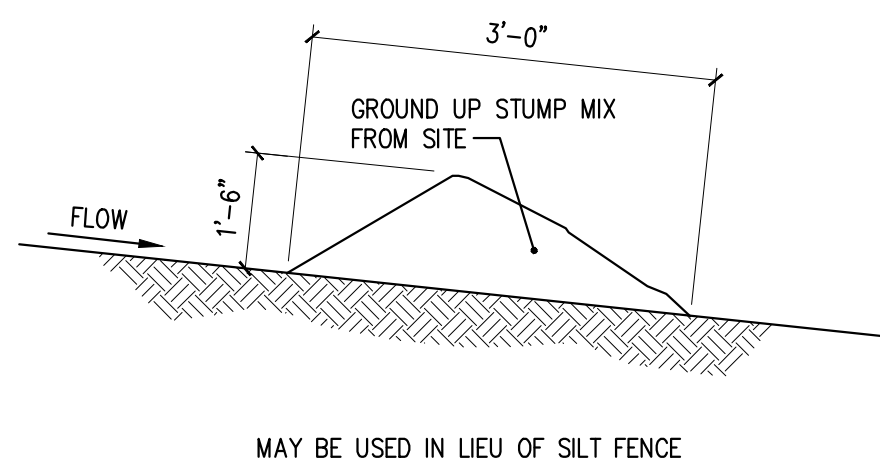


EROSION CONTROL BLANKET  
REQUIRED IN ALL DITCHES > 3%

NOTE: GRADING PLAN GOVERNS IN ALL LOCATIONS



SILTATION FENCE DETAIL  
NTS



MAY BE USED IN LIEU OF SILT FENCE

EROSION CONTROL MIX DETAIL  
N.T.S.

SILTATION FENCE INSTALLATION

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.



|                                                                                                                                                                                |  |          |  |     |                                                                                  |               |  |      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|--|-----|----------------------------------------------------------------------------------|---------------|--|------|--|
| PREPARED FOR:                                                                                                                                                                  |  |          |  |     | STATE OF MAINE DOT                                                               |               |  |      |  |
|                                                                                                                                                                                |  |          |  |     | Sherman Truck Storage Garage<br>12 Qualey Drive, Sherman, Maine<br>WIN 025240.00 |               |  |      |  |
| <br><b>TRILLIUM</b><br>ENGINEERING GROUP<br>189 MAIN STREET SUITE 200<br>YARMOUTH, ME 04096 |  |          |  |     |                                                                                  |               |  |      |  |
| David Matero<br>*****<br>Architecture<br>49 Centre Street<br>Bath, Maine 04530<br>207-389-4278<br>info@davidmatero.com                                                         |  |          |  |     |                                                                                  |               |  |      |  |
| <br><b>BENNETT<br/>ENGINEERING</b><br>MECHANICAL • ELECTRICAL<br>(207) 865-9475             |  |          |  |     |                                                                                  |               |  |      |  |
| BY                                                                                                                                                                             |  | DATE     |  |     |                                                                                  | PE NUMBER     |  |      |  |
| DL                                                                                                                                                                             |  | 03-06-20 |  |     |                                                                                  |               |  |      |  |
| ED                                                                                                                                                                             |  | 03-06-20 |  | ME- |                                                                                  |               |  |      |  |
|                                                                                                                                                                                |  |          |  |     |                                                                                  | 2021.1.17     |  | DATE |  |
| DESIGN-DETAILED                                                                                                                                                                |  |          |  |     |                                                                                  | REVISION 1    |  |      |  |
| ISSUED FOR BID                                                                                                                                                                 |  |          |  |     |                                                                                  | REVISION 2    |  |      |  |
|                                                                                                                                                                                |  |          |  |     |                                                                                  | REVISION 3    |  |      |  |
|                                                                                                                                                                                |  |          |  |     |                                                                                  | FIELD CHANGES |  |      |  |
| MDOT SHERMAN                                                                                                                                                                   |  |          |  |     | EROSION CONTROL DETAILS                                                          |               |  |      |  |
|                                                                                                                                                                                |  |          |  |     |                                                                                  |               |  |      |  |
|                                                                                                                                                                                |  |          |  |     |                                                                                  |               |  |      |  |
| SHEET NUMBER                                                                                                                                                                   |  |          |  |     |                                                                                  |               |  |      |  |
| C300                                                                                                                                                                           |  |          |  |     |                                                                                  |               |  |      |  |

Code Analysis - MDOT Sherman Maintenance Building

12 Ordway Drive, Sherman, ME

New Metal Fabricated one story stand alone building totaling 9,000 sf to be used as a Fleet truck maintenance facility for the Maine Department of Transportation. The building will have overhead doors and personnel entry door on opposite sides for vehicles to drive through and for employees to enter and exit the facility. The building will not be sprinklered per the provided Code Review.

International Building Code 2015 - IBC Review

|                                                                                                             |                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chapter 3 Use and Occupancy Classification                                                                  |                                                                                                                                                       |
| Table 301.1 (1) Maximum allowable quantity per control area of hazardous materials posing a physical hazard | Footnote (p) The following shall not be included in determining the maximum allowable quantities: 1. Liquid or gaseous fuel in fuel tanks on vehicles |
| Section 311.2                                                                                               | S-1 Moderate Hazard Storage                                                                                                                           |
|                                                                                                             | Motor vehicle repair garages complying with the maximum allowable quantities of hazardous materials listed in Table 307.1(1) (see Section 406.8)      |

Chapter 5 General Building Heights and Areas

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| Construction Type                 | IIB / Unprotected, Not Sprinklered (NS)                |
| Table 504.3 Height limitations    | S-1 (NS) 55'<br>New single story at peak 28'-4" – OK   |
| Table 504.4 Number of Stories     | S-1 2 Stories (NS)<br>Single story only – OK           |
| Table 506.2 Allowable Area Factor | S-1 17,500 sf (NS)<br>Single Story total 9,000 sf – OK |

Chapter 6 Types of Construction

|                                                                  |                                        |
|------------------------------------------------------------------|----------------------------------------|
| Table 601 Ratings of Structure Elements                          |                                        |
| Primary structural frame                                         | 0 Hour / Existing to remain, 0 hr – OK |
| Exterior bearing walls                                           | 0 Hour / Existing to remain, 0 hr – OK |
| Interior bearing walls                                           | 0 Hour / Existing to remain, 0 hr – OK |
| Exterior nonbearing walls and partitions                         | 0 Hour / Existing to remain, 0 hr – OK |
| Interior nonbearing walls and partitions                         | 0 Hour / Existing to remain, 0 hr – OK |
| Floor construction                                               | 0 Hour / Existing to remain, 0 hr – OK |
| Roof construction                                                | 0 Hour / Existing to remain, 0 hr – OK |
| Table 602 Fire Resistance Rating Requirements for Exterior Walls |                                        |
| Less than 10'                                                    | 1 Hour                                 |
| More than 10'                                                    | 0 Hour                                 |

Chapter 7 Fire and Smoke Protection Features

|                                                                                  |                                                                                                 |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Table 705.8 Max Area of Exterior Wall Openings Based on Fire Separation Distance |                                                                                                 |
| 0 to 3' (Unprotected, Not Sprinklered)                                           | Not permitted                                                                                   |
| 3' to 5' (UP) (NS)                                                               | Not permitted                                                                                   |
| 5' to 10'                                                                        | 10%                                                                                             |
| 10' to 15'                                                                       | 15%                                                                                             |
| 15' to 20'                                                                       | 25%                                                                                             |
| 20' to 25'                                                                       | 45%                                                                                             |
| 25' to 30'                                                                       | 70%                                                                                             |
| More than 30'                                                                    | No Limit                                                                                        |
| Section 711 Horizontal Assemblies                                                |                                                                                                 |
| Section 7.11.2.3 Supporting Construction                                         | Supporting construction shall be of the same fire-resistive rating as the horizontal separation |
| Table 716.5 Open Fire Protection Assemblies, Ratings and Markings                |                                                                                                 |
| Fire walls, 2 hour                                                               | 1 1/2 Hour rating                                                                               |
| Shaft, 1 hour                                                                    | 1 Hour                                                                                          |
| Exit enclosures, 1 hour                                                          | 1 Hour                                                                                          |
| Corridor walls, 1 hour                                                           | 20 Minute                                                                                       |
| Table 716.6 Limiting Size of Wired Glass Panels                                  |                                                                                                 |
| 1 and 1 1/2 hours                                                                | 100 sq in, 33" max ht, 10" max width                                                            |
| 3/4 hour                                                                         | 1,296 sq in, 54" max ht, 54" max width                                                          |
| 20 minute                                                                        | Not limited                                                                                     |
| Section 720.2 Concealed Insulating installation                                  |                                                                                                 |
| Where concealed                                                                  | Flame spread not more than 25<br>Smoke-developed index not more than 450                        |
| Section 719.3 Exposed insulating installation                                    |                                                                                                 |
| Where exposed                                                                    | Flame spread not more then 25<br>Smoke-developed index not more than 450                        |
| Exception                                                                        | Cellulose loose-fill (not spray) shall only meet smoke-developed not more than 450              |

Chapter 8 Interior Finishes

|                                                                           |                                                                             |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Section 803.1.1 Interior wall and ceiling finish material                 |                                                                             |
| Class A                                                                   | Flame spread index 0-25; smoke-developed index 0-450                        |
| Class B                                                                   | Flame spread index 26-75; smoke-developed index 0-450                       |
| Class C                                                                   | Flame spread index 76-200; smoke-developed index 0-450                      |
| Table 803.11 Interior wall and ceiling finish requirements by occupancy   | S-1 Moderate Hazard Storage                                                 |
| Exit enclosures and passageways                                           | Class B / Class C                                                           |
| Corridors                                                                 | Class B / Class C                                                           |
| Rooms and enclosed spaces                                                 | Class C / Class C                                                           |
| Section 804.4 Interior floor finish requirements                          |                                                                             |
| Interior floor finish when nonsprinklered                                 | Not less than Class II and comply with DOCFF-1 "pill test"                  |
| Section 806 Decorative Materials and Trim                                 |                                                                             |
| Fabric partitions suspended from the ceiling and not supported from floor | Shall meet flame propagation performance criteria of NFPA 701 and Sec 806.2 |

Chapter 9 Fire Protective Systems – Existing System to remain and not modified

|                   |                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------|
| Section 903.2 S-1 | Automatic Sprinkler System not required – proposed building is less than 12,000 sf and only a single story – OK |
|-------------------|-----------------------------------------------------------------------------------------------------------------|

Chapter 10 Means of Egress

|                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section 1003.2 Ceiling height                                                                                                                                                                                                                                                                                                                                                                                                                | Not less than 7'-6"                                                                                                                                                  |
| Section 1003.3.1 Headroom                                                                                                                                                                                                                                                                                                                                                                                                                    | Protruding objects permitted to 80" if not more than 50% of the ceiling area is reduced                                                                              |
| Exception                                                                                                                                                                                                                                                                                                                                                                                                                                    | Door closers and stops shall not reduce to less than 78"                                                                                                             |
| When vertical clearance less than 80"                                                                                                                                                                                                                                                                                                                                                                                                        | Provide a barrier with a leading edge located 27" max above the floor                                                                                                |
| Section 1003.3.3 Horizontal projections                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                      |
| Horizontal projections                                                                                                                                                                                                                                                                                                                                                                                                                       | Shall not project more than 4" when located between 27" and 80" above the walking surface                                                                            |
| Exception                                                                                                                                                                                                                                                                                                                                                                                                                                    | Handrails allowed to project 4 1/2"                                                                                                                                  |
| Table 1004.1.2 Occupant Load                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                      |
| First Floor                                                                                                                                                                                                                                                                                                                                                                                                                                  | Refer to support drawings                                                                                                                                            |
| Storage Area                                                                                                                                                                                                                                                                                                                                                                                                                                 | (300 gross) = 30 Occupants                                                                                                                                           |
| Total Occupants                                                                                                                                                                                                                                                                                                                                                                                                                              | 30 Occupants                                                                                                                                                         |
| Section 1007.1.1 Two exits or exit access doorways                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                      |
| Where two exits, exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed at a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between them. Interlocking or scissor stairways shall be counted as one exit stairway |                                                                                                                                                                      |
| Section 1009.1 Accessible Means of Egress                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      |
| *Accessible spaces must be provided with an accessible means of egress. Exception, accessible means of egress not required in alterations to existing buildings                                                                                                                                                                                                                                                                              |                                                                                                                                                                      |
| Section 1017 Exit Travel Distance                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                      |
| Table 1017.2 Exit Access Travel Distance * Note: refer to NFPA 101 2009 Table A7.6                                                                                                                                                                                                                                                                                                                                                           | S-1 = 250' – OK * Note: refer to new/existing Storage occupancy Table 42.2.5                                                                                         |
| Table 1020.1 Corridor Fire Resistance                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                      |
| S-1 with an occupant load less than 30 without a sprinkler system does not require a fire resistance rating – (24) OK                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                      |
| Table 1020.2 Minimum Corridor Width                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                      |
| Minimum width                                                                                                                                                                                                                                                                                                                                                                                                                                | 3'-8"                                                                                                                                                                |
| With occupant load of less than 50                                                                                                                                                                                                                                                                                                                                                                                                           | 3'-0"                                                                                                                                                                |
| Section 1020.4 Dead Ends                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
| Occupancy S-1                                                                                                                                                                                                                                                                                                                                                                                                                                | Where more than one exit or exit access doorway is required, the exit access shall be arranged such that there are no dead ends in corridors more than 20' in length |

Chapter 11 Accessibility

|                                                                                                                                                                                                                                                                                                                                                 |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Section 1104.5 Location                                                                                                                                                                                                                                                                                                                         |                                    |
| Accessible routes shall coincide with or be located in the same area as a general circulation path. Where the circulation path is interior, the accessible route shall also be interior. Where only one accessible route is provided, the accessible route shall not pass through kitchens, storage rooms, restrooms, closets or similar spaces |                                    |
| Section 1105.1 Public entrances                                                                                                                                                                                                                                                                                                                 |                                    |
| Min 60% entrances                                                                                                                                                                                                                                                                                                                               |                                    |
| Accessible entrance not required to areas not required to be accessible                                                                                                                                                                                                                                                                         |                                    |
| Table 1106.1 Accessible Parking Spaces                                                                                                                                                                                                                                                                                                          |                                    |
| Total parking spaces 1 to 25                                                                                                                                                                                                                                                                                                                    | Required min accessible spaces, 1  |
| 26 to 50                                                                                                                                                                                                                                                                                                                                        | 2                                  |
| 51 to 75                                                                                                                                                                                                                                                                                                                                        | 3                                  |
| 76 to 100                                                                                                                                                                                                                                                                                                                                       | 4                                  |
| 101 to 150                                                                                                                                                                                                                                                                                                                                      | 5                                  |
| Section 1106.5 Van Spaces                                                                                                                                                                                                                                                                                                                       |                                    |
| For every 6 accessible spaces                                                                                                                                                                                                                                                                                                                   | At least 1 shall be van-accessible |

NFPA 101 2015 - Life Safety Code Review

|                                      |                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------|
| Chapter 3 Definitions                |                                                                                                       |
| Section 3.3.190.15 Storage Occupancy | An occupancy primarily used for the storage or sheltering of goods, products, merchandise or vehicles |

Chapter 4 General – Life Safety Code

|                                           |                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section 4.5.3.1 Number of Means of Egress | Two means of egress, as a minimum, shall be provided in every building or structure, section, and area, where size, occupancy, and arrangement endanger occupants attempting to use a single means of egress that is blocked by fire or smoke. The two means of egress shall be arranged to minimize the possibility that both might be rendered impassable by the same emergency condition. |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Chapter 5 Performance-Based Option – Life Safety Code

|                                     |                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section 5.4.5.4 Number of Occupants | The design shall be based on the maximum number of people that every occupied room or area is expected to contain. Where the success or failure of the design is contingent on the number of occupants not exceeding a specified maximum, operational controls shall be used to ensure that the maximum number of occupants is not exceeded. |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Chapter 6 Classification of Occupancy and Hazard Contents

|                                                                        |                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section 6.1.13.1 Storage Occupancy                                     | An occupancy used primarily for the storage or sheltering of goods, merchandise, products or vehicles<br>For requirements, see Chapter 42                                                                                                                                                |
| Section 6.2.1.1 Hazard of Contents                                     | For the purpose of this Code, the hazard of contents shall be the relative danger of the start and spread of fire, the danger of smoke or gases generated, and the danger of explosion or other occurrence potentially endangering the lives and safety of the occupants of the building |
| Section 6.2.2.3 Classification of Hazard of Contents (Ordinary Hazard) | Ordinary hazard contents shall be classified as those that are likely to burn with moderate rapidity or to give off a considerable volume of smoke                                                                                                                                       |

Chapter 7 Means of Egress

|                                                                                                                                                                                |                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section 7.1.5.1 Means of egress headroom                                                                                                                                       | Not less than 7'-6" with projections not less than 6'-8"                                                                                                        |
| Table 7.3.1.2 Occupant Load Factor                                                                                                                                             |                                                                                                                                                                 |
| First Floor – single story only                                                                                                                                                | Refer to support drawings                                                                                                                                       |
| Storage occupancy                                                                                                                                                              | (500 gross) = 18 Occupants                                                                                                                                      |
| Section 7.5.1.4 Means of Egress                                                                                                                                                |                                                                                                                                                                 |
| Where common paths of travel are permitted for an occupancy in Chapters 11 through 43, such common paths of travel shall be permitted but shall not exceed the limit specified |                                                                                                                                                                 |
| Section 7.5.1.5                                                                                                                                                                | Exit access shall be arranged so that there are no dead ends in corridors, unless permitted by, and limited to the lengths specified in, Chapters 11 through 43 |

Chapter 8 Features of Fire Protection

|                              |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Section 8.3.3.3.1 Fire Doors | Fire door assemblies shall be installed, inspected, tested and maintained in accordance with NFPA 80 |
| Section 8.3.3.3.5            | Unless otherwise specified, fire doors shall be self-closing or automatic-closing                    |

Chapter 9 Building Service and Fire Protection Equipment

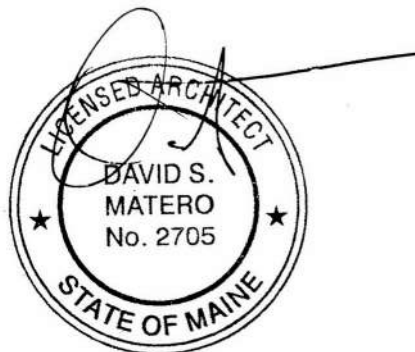
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|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section 9.6.2.3 | A manual fire alarm box shall be provided as follows, unless modified by another section of this code: (1) For new alarm system installations, the manual fire alarm box shall be located within 60 inches of exit doorways (2) For existing alarm system installations, the manual fire alarm box either shall be provided in the natural exit access path near each required exit or within 60 inches of exit doorways |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Chapter 42 – New/existing Storage Occupancies

|                                                       |                                                                                                                                                                                                                                        |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section 42.1.1.1                                      | The requirements of this chapter shall apply to both existing and new storage occupancies                                                                                                                                              |
| Section 42.1.1.4                                      | Storage occupancies shall include all buildings or structures used primarily for the storage or sheltering of goods, merchandise, products, or vehicles                                                                                |
| Section 42.1.2.1                                      | Storage occupancies shall include all buildings and structures or parts thereof with occupancy as defined in 6.1.13                                                                                                                    |
| Section 42.1.5.1 Classification of Hazard of Contents | Contents of storage occupancies shall be classified as low hazard, ordinary hazard, or high hazard in accordance with Section 6.2, depending on the quantity and character of the materials stored, their packaging, and other factors |
| Section 42.2.1.1 Means of Egress Requirements         | Each required means of egress shall be in accordance with applicable portions of Chapter 7                                                                                                                                             |
| Section 42.2.5 Dead end corridors                     | 50 ft – Ordinary Hazard (Non-sprinklered)                                                                                                                                                                                              |
| Table 42.2.6 Maximum Travel Distance to Exits         | 200 ft – Ordinary Hazard (Non-sprinklered)                                                                                                                                                                                             |
| Section 42.3.3.2 Interior wall and ceiling finish     |                                                                                                                                                                                                                                        |
| Interior wall and ceiling finish                      | Class A or B                                                                                                                                                                                                                           |
| Section 42.3.3.3.1 Interior floor finish              | Interior floor finish shall not be less than Class II                                                                                                                                                                                  |
| Table 42.7.5.2 Travel Distance to Exits               | 200 ft – Ordinary Hazard (Non-sprinklered)                                                                                                                                                                                             |

INTERNATIONAL ENERGY CONSERVATION CODE - 2015 Edition

| Commercial Energy Efficiency – Note: ci = continuous insulation / LS = Liner System |                                  |                 |                     |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------|---------------------|
| BUILDING ENVELOPE REQUIREMENTS                                                      | R- RATED VALUES                  | U-Factor Method | CODE REFERENCE      |
| Climate Zone 7 – Opaque Assemblies                                                  | *All Other – Roofs               |                 | IECC Chapter 4      |
| Insulation Entirely Above Roof Deck                                                 | R-35 ci                          | U-0.028         | IECC Table C402.1.3 |
| Metal Bldgs with R-5 Thermal Blocks                                                 | R-30 + R-11 LS – Provided        | U-0.029         | and Table C402.1.4  |
| Attic and Other                                                                     | R-49                             | U-0.021         |                     |
|                                                                                     | *All Other, Walls Above Grade    |                 |                     |
| Mass                                                                                | R-15.2 ci                        | U-0.071         |                     |
| Metal Building                                                                      | R-13 + R-13 ci – Provided        | U-0.052         |                     |
| Metal Framed                                                                        | R-13 + R-7.5 ci                  | U-0.064         |                     |
| Wood Framed and Other                                                               | R-13 + R-7.5 ci                  | U-0.051         |                     |
|                                                                                     | or R-20 + R-3.8 ci               |                 |                     |
|                                                                                     | *All Other, Walls Below Grade    |                 |                     |
| Below Grade Wall [with no heated slabs]                                             | R-10 ci                          | C-0.092         |                     |
|                                                                                     | *All Other – Floors              |                 |                     |
| Mass                                                                                | R-15 ci                          | U-0.055         |                     |
| Joist/Framing (steel/wood)                                                          | R-30                             | U-0.033         |                     |
|                                                                                     | *All Other, Slab-on-Grade Floors |                 |                     |
| Unheated Slabs                                                                      | R-15 for 24" below               | F-0.40          |                     |
| Heated Slabs                                                                        | R-20 for 24" below               | F-0.55          |                     |
|                                                                                     | *All Other, Opaque Doors         |                 |                     |
| Nonswinging                                                                         | R-4.75                           |                 |                     |
| Swinging                                                                            |                                  | U-0.37          |                     |



PREPARED FOR:  
STATE OF MAINE DOT

Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00



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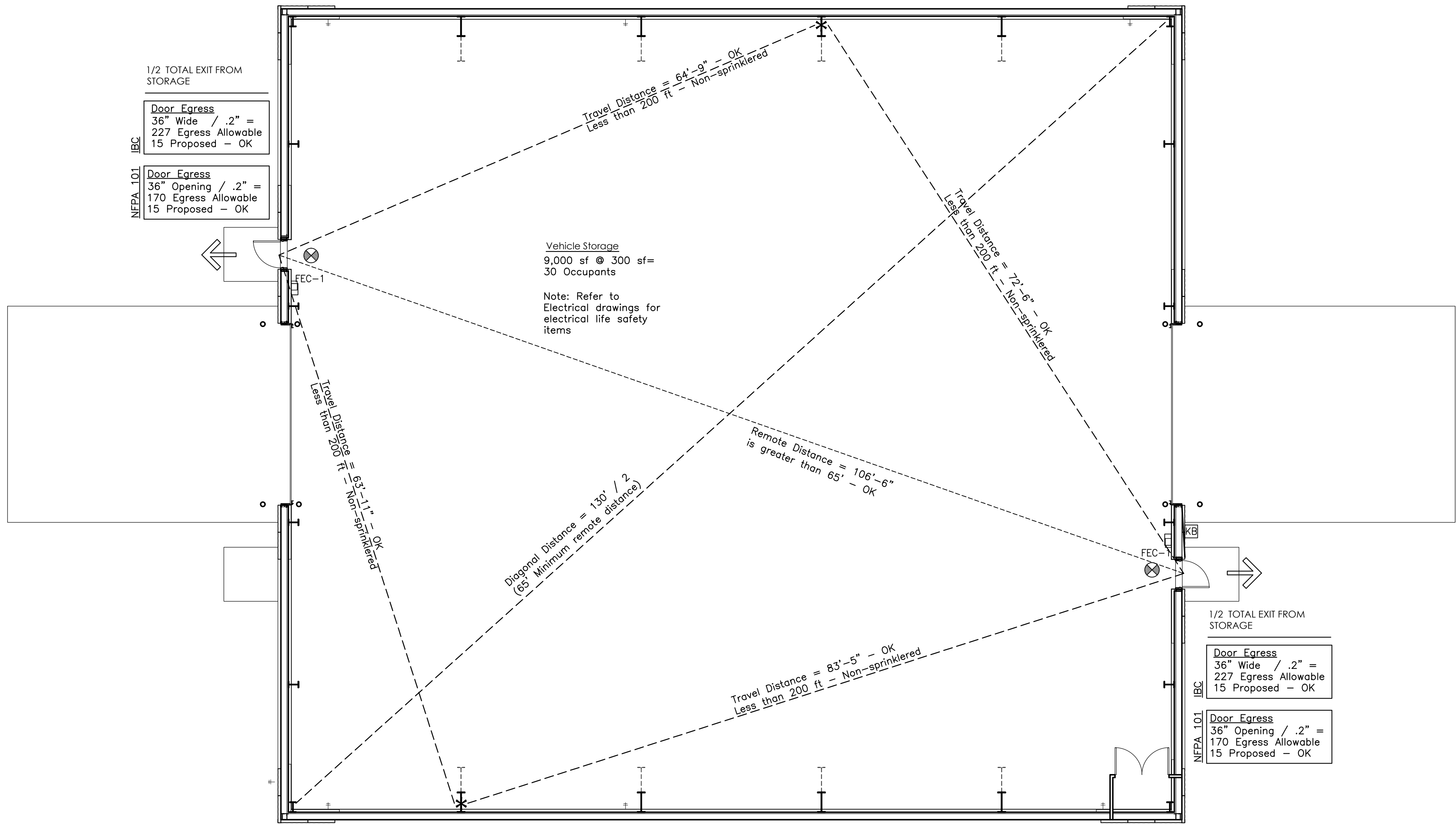
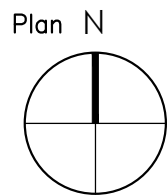
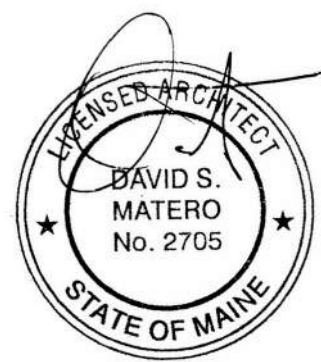
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|          |          |           |                 |                  |            |            |            |               |
| 03/06/20 | 11/19/21 | DSM       | DSM             |                  |            |            |            |               |
| ME       |          | PE NUMBER |                 | 2020.01.28       |            | DATE       |            |               |

Code Analysis

Issued for Bid  
No Scale

SHEET NUMBER

R.1



1 Proposed First Floor Plan

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

NOTES

- Life safety equipment and locations shall conform to all applicable codes.
- Fully test and inspect sprinkler system.
- 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.
- Obtain water supply flow test if available within last three years, if not available test must be conducted.
- All sprinkler heads must be quick response type.
- Electrical outlets shall be provided for all plug-in equipment. All other outlets shall be located per all applicable codes.
- Provide laminated floor plan at each public room indicating direction to building exit.

Fire Extinguisher Cabinet

FEC-1 Wall mounted Fire Extinguisher by Larsen or approved equivalent

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               | 9,000 sf @ 300 gross = | 30 Occupants |
| Total All Spaces              |                        | 30 Occupants |

| Egress - Life Safety (Table 7.3.1.2 Occupant Load Factor) |                           |              |
|-----------------------------------------------------------|---------------------------|--------------|
| First Floor                                               |                           |              |
| Vehicle Storage                                           | 9,000 sf @ 500 sf gross = | 18 Occupants |
| Total All Spaces                                          |                           | 18 Occupants |

PREPARED FOR:  
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Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00



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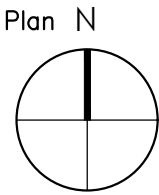
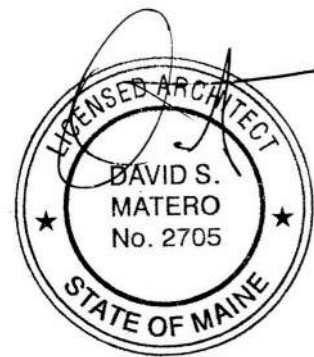
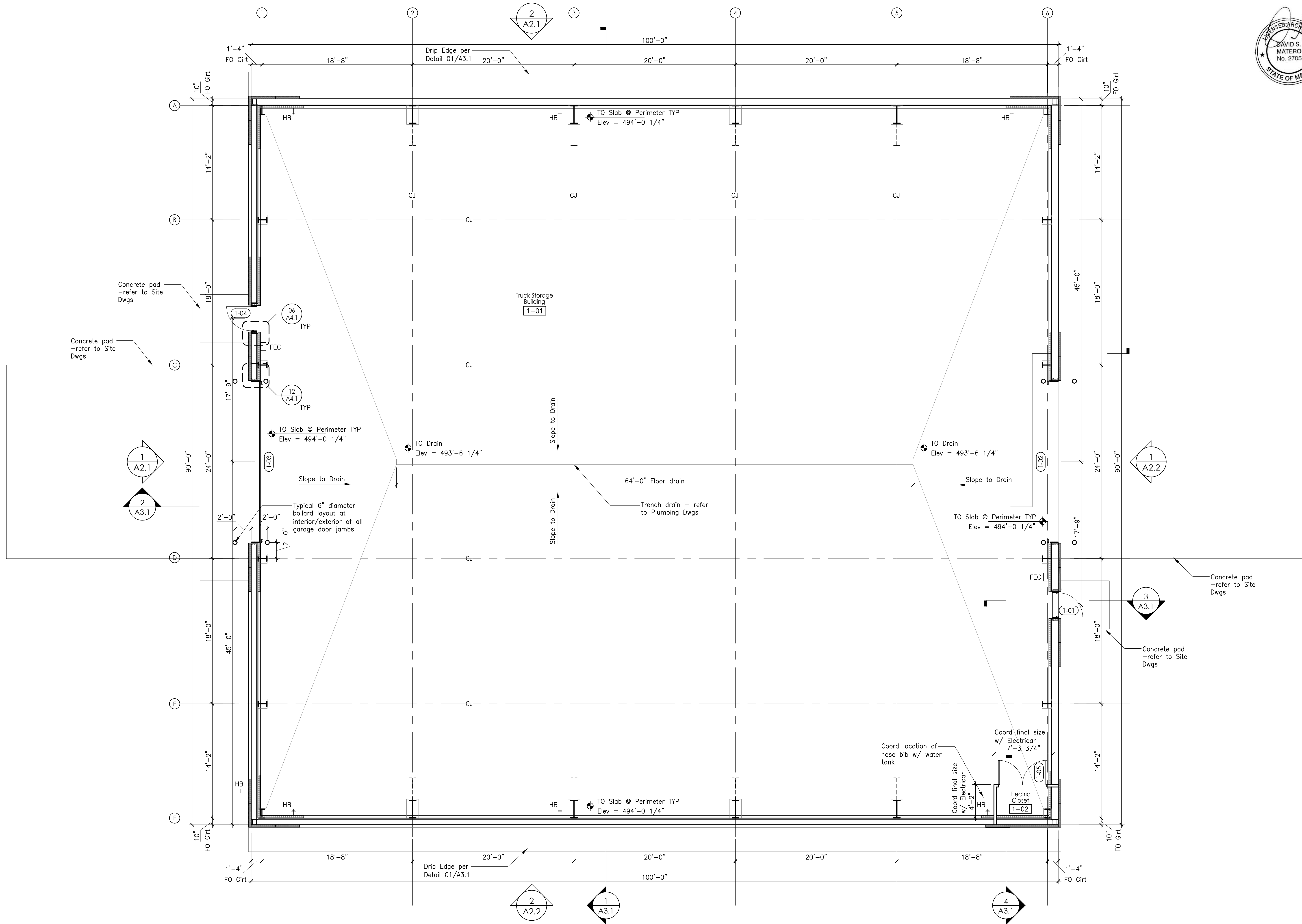
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|                  | BY  | DATE     |            |
| DESIGN-DETAILED  | DSM | 03/06/20 |            |
| CHECKED-REVIEWED | DSM | 11/18/21 | ME         |
|                  |     |          | PE NUMBER  |
| REVISION 1       |     |          |            |
| REVISION 2       |     |          | 2020.01.28 |
| REVISION 3       |     |          | DATE       |

Code Review Floor Plan

Issued for Bid  
Scale - As Noted

SHEET NUMBER

R.2



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Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00



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|------------|-----|-----------------|------------------|------------|------------|------------|---------------|
| 03/06/20   | DSM |                 |                  |            |            |            |               |
| 11/18/21   | DSM |                 |                  |            |            |            |               |
| ME         |     |                 |                  |            |            |            |               |
| PE NUMBER  |     |                 |                  |            |            |            |               |
| 2020.01.28 |     |                 |                  |            |            |            |               |
| DATE       |     |                 |                  |            |            |            |               |

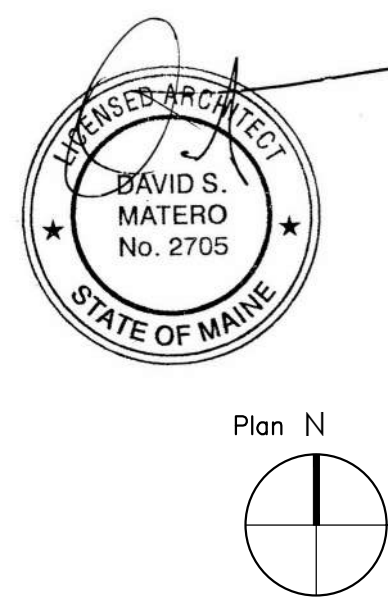
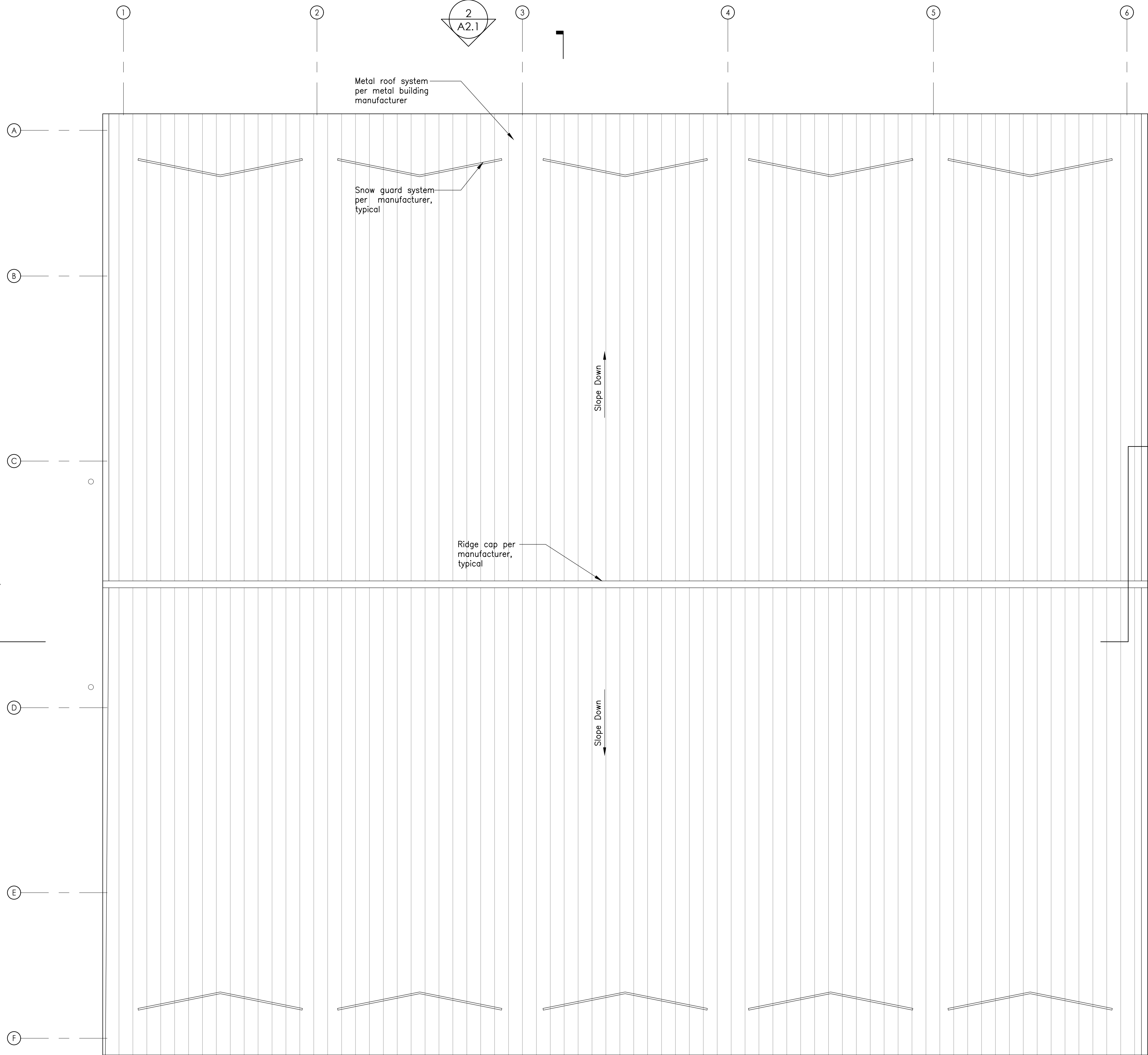
Proposed First Floor Plan  
Issued for Bid  
Scale: 3/16" = 1' - 0"

SHEET NUMBER

A1.1

1 Proposed First Floor Plan

Scale: 3/16" = 1' - 0"



PREPARED FOR: STATE OF MAINE DOT  
Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00

**TRILLIUM**  
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| DESIGN-DETAILED  | BY  | DATE     | ME       | PE NUMBER  |
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| CHECKED-REVIEWED | DSM | 03/06/20 | 11/18/21 |            |
| REVISION 1       |     |          |          | 2020.01.28 |
| REVISION 2       |     |          |          |            |
| REVISION 3       |     |          |          |            |
| FIELD CHANGES    |     |          |          |            |

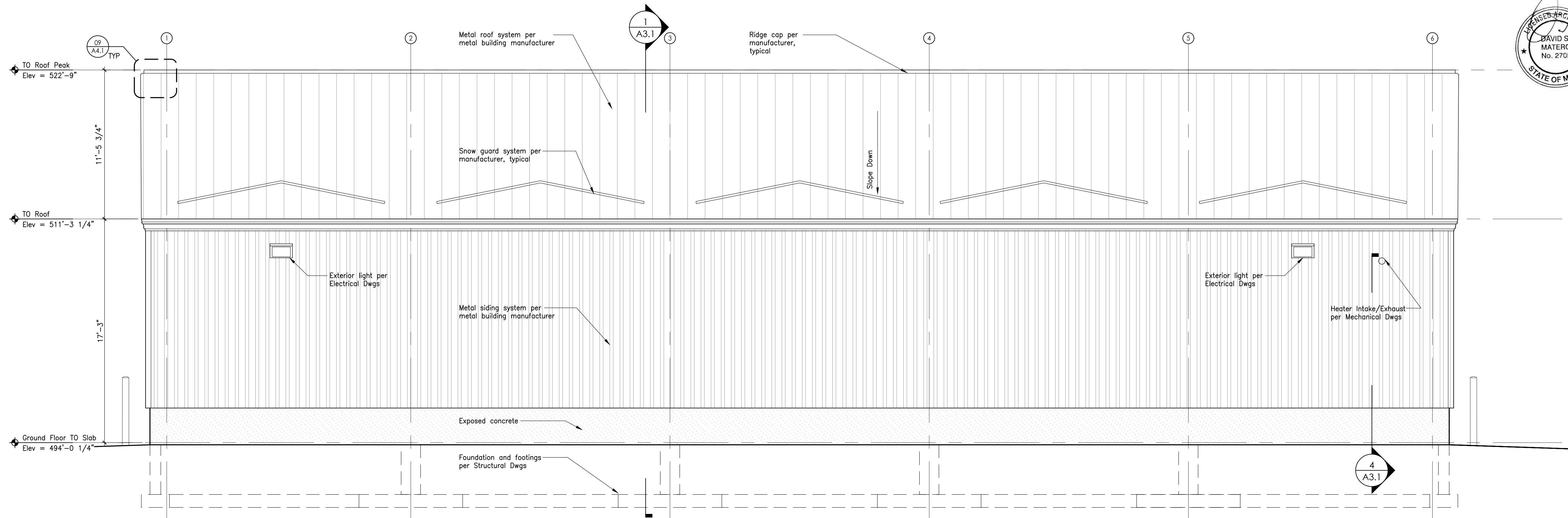
Proposed Roof Plan

Issued for Bid  
Scale: 3/16" = 1' - 0"

SHEET NUMBER  
**A1.2**

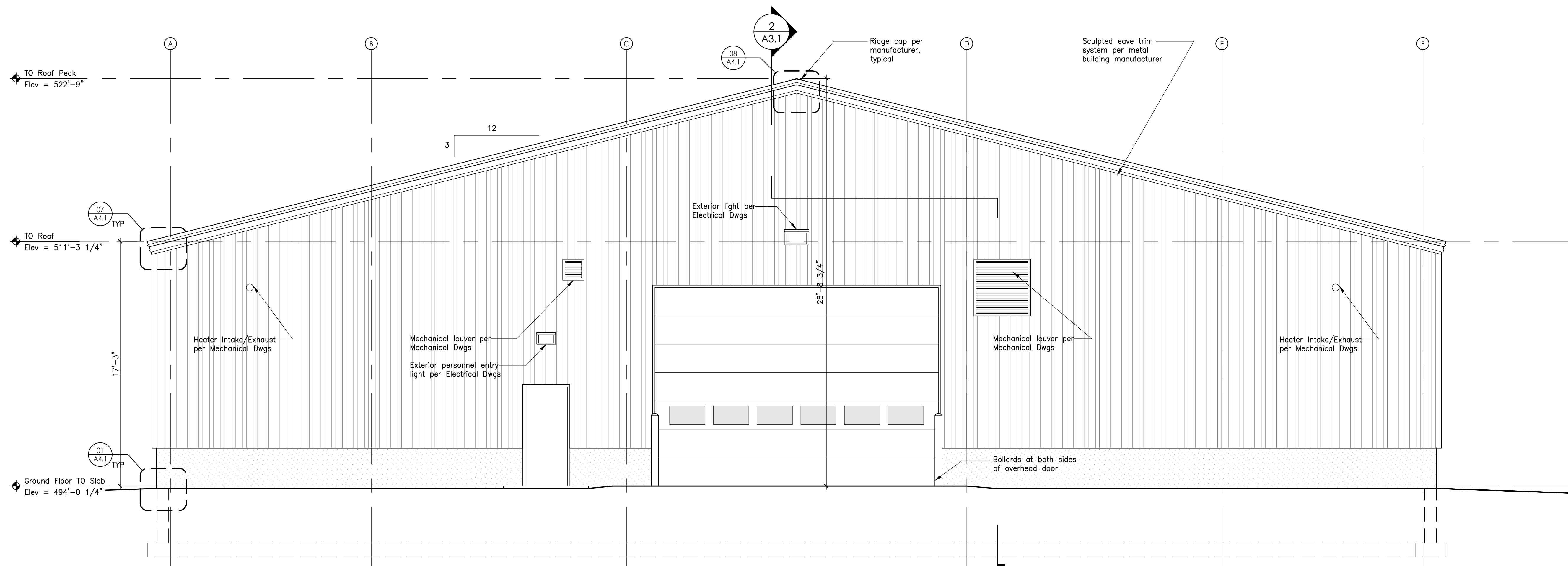
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Scale: 3/16" = 1' - 0"



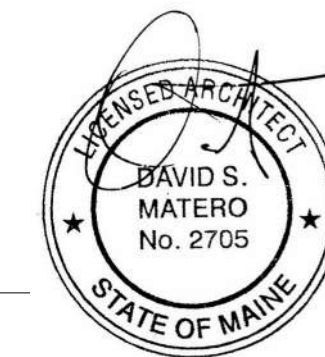
2 Proposed East Exterior Elevation

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



1 Proposed South Exterior Elevation

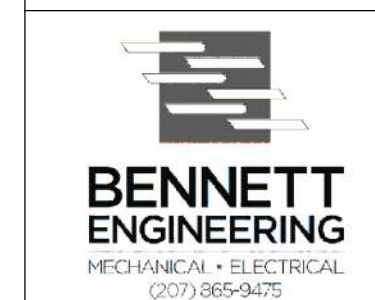
Scale: 1/4" = 1' - 0"



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Sherman Truck Storage Garage  
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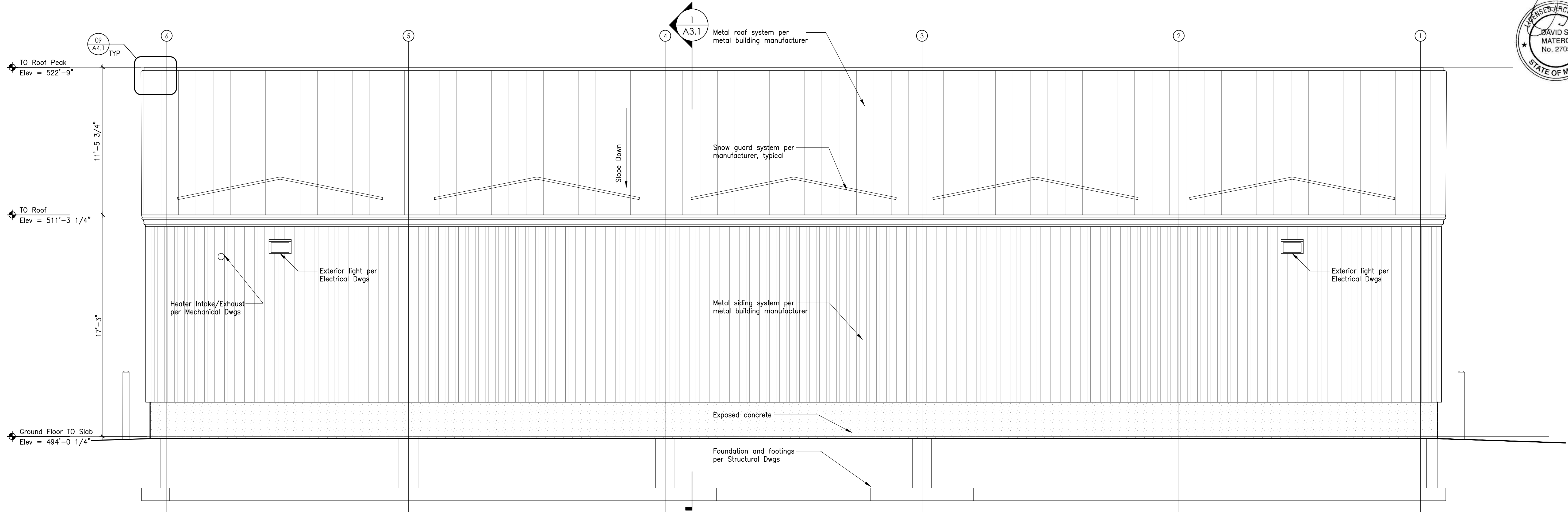


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|------------|-----|-----------------|------------------|------------|------------|------------|---------------|
| 03/06/20   | DSM |                 |                  |            |            |            |               |
| 11/19/21   | DSM |                 |                  |            |            |            |               |
| ME         |     |                 |                  |            |            |            |               |
| PE NUMBER  |     |                 |                  |            |            |            |               |
| 2020.01.28 |     |                 |                  |            |            |            |               |
| DATE       |     |                 |                  |            |            |            |               |

Proposed South and  
West Elevations  
Issued for Bid  
Scale: 1/4" = 1' - 0"

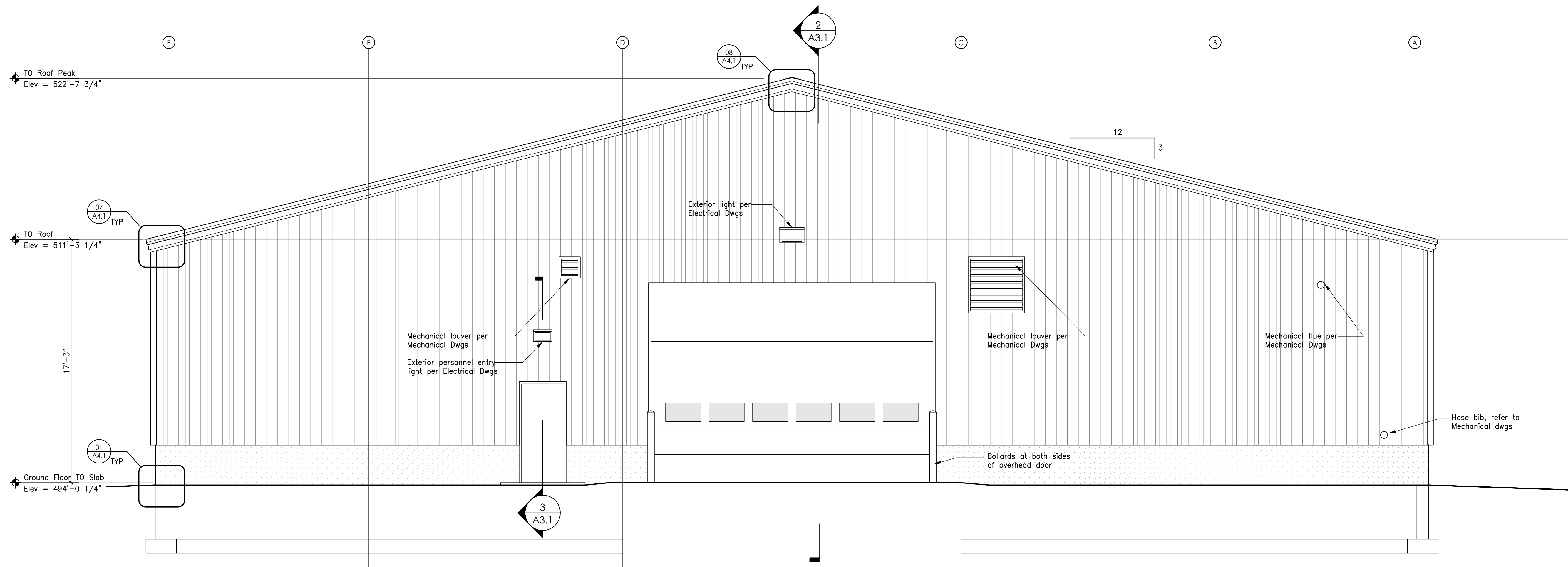
SHEET NUMBER

A2.1



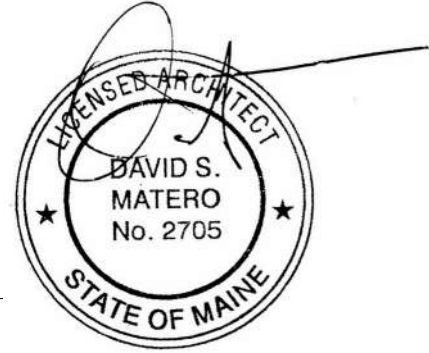
2 Proposed West Exterior Elevation

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



1 Proposed North Exterior Elevation

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



STATE OF MAINE DOT  
Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00

**TRILLIUM**  
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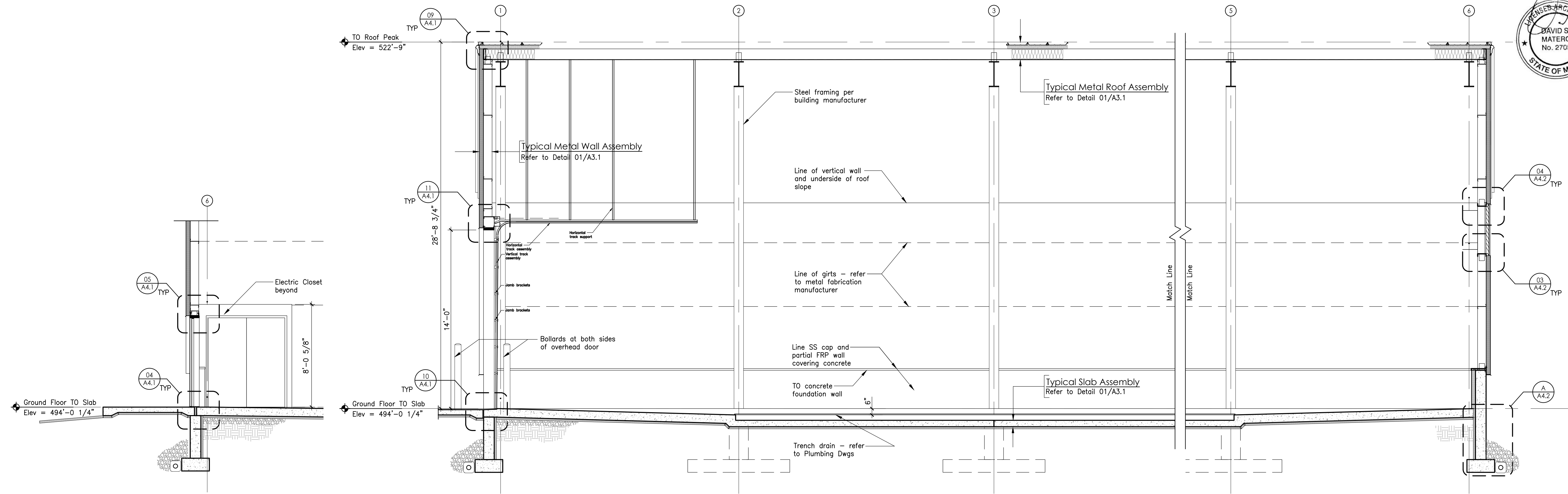
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|------------|-----|-----------------|------------------|------------|------------|------------|---------------|
| 03/06/20   | DSM |                 |                  |            |            |            |               |
| 11/19/21   | DSM |                 |                  |            |            |            |               |
| ME         |     |                 |                  |            |            |            |               |
| PE NUMBER  |     |                 |                  |            |            |            |               |
| 2020.01.28 |     |                 |                  |            |            |            |               |
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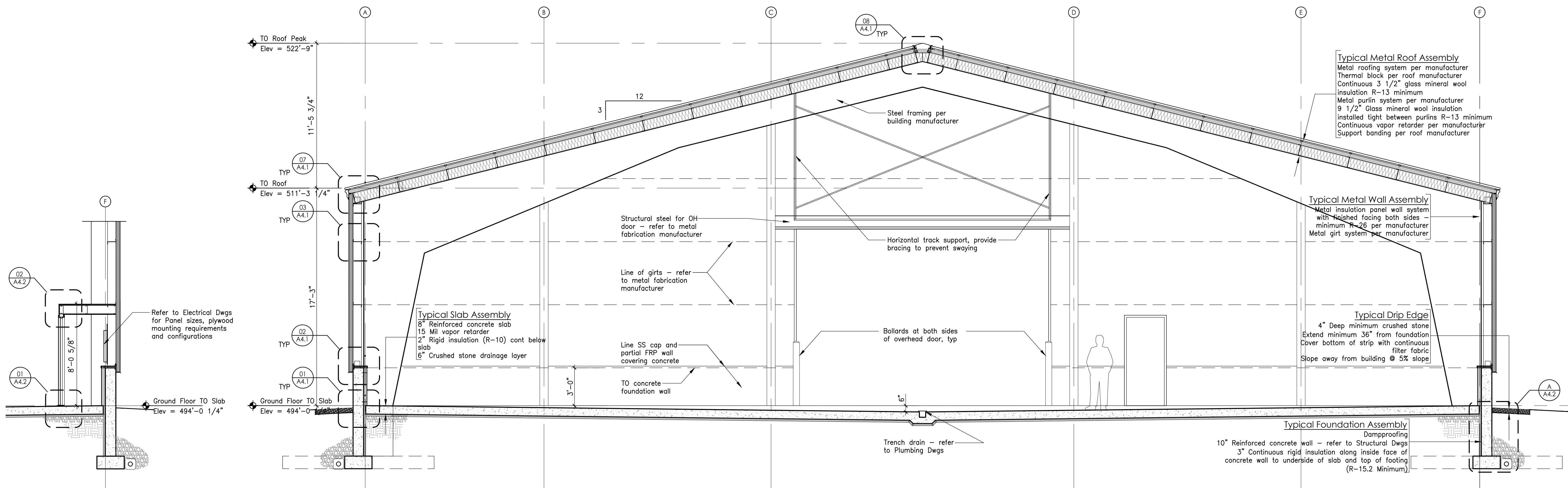
Proposed North and South Elevations  
Issued for Bid  
Scale: 1/4" = 1' - 0"

SHEET NUMBER  
**A2.2**



3 Partial Section @ Exit Door, Typical  
Scale: 1/4" = 1' - 0"

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



4 Partial Section @ Elect Closet  
Scale: 1/4" = 1' - 0"

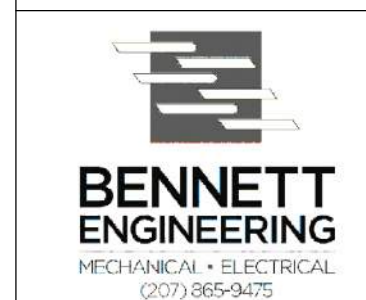
1 Building Section  
Scale: 1/4" = 1' - 0"



STATE OF MAINE DOT  
Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00



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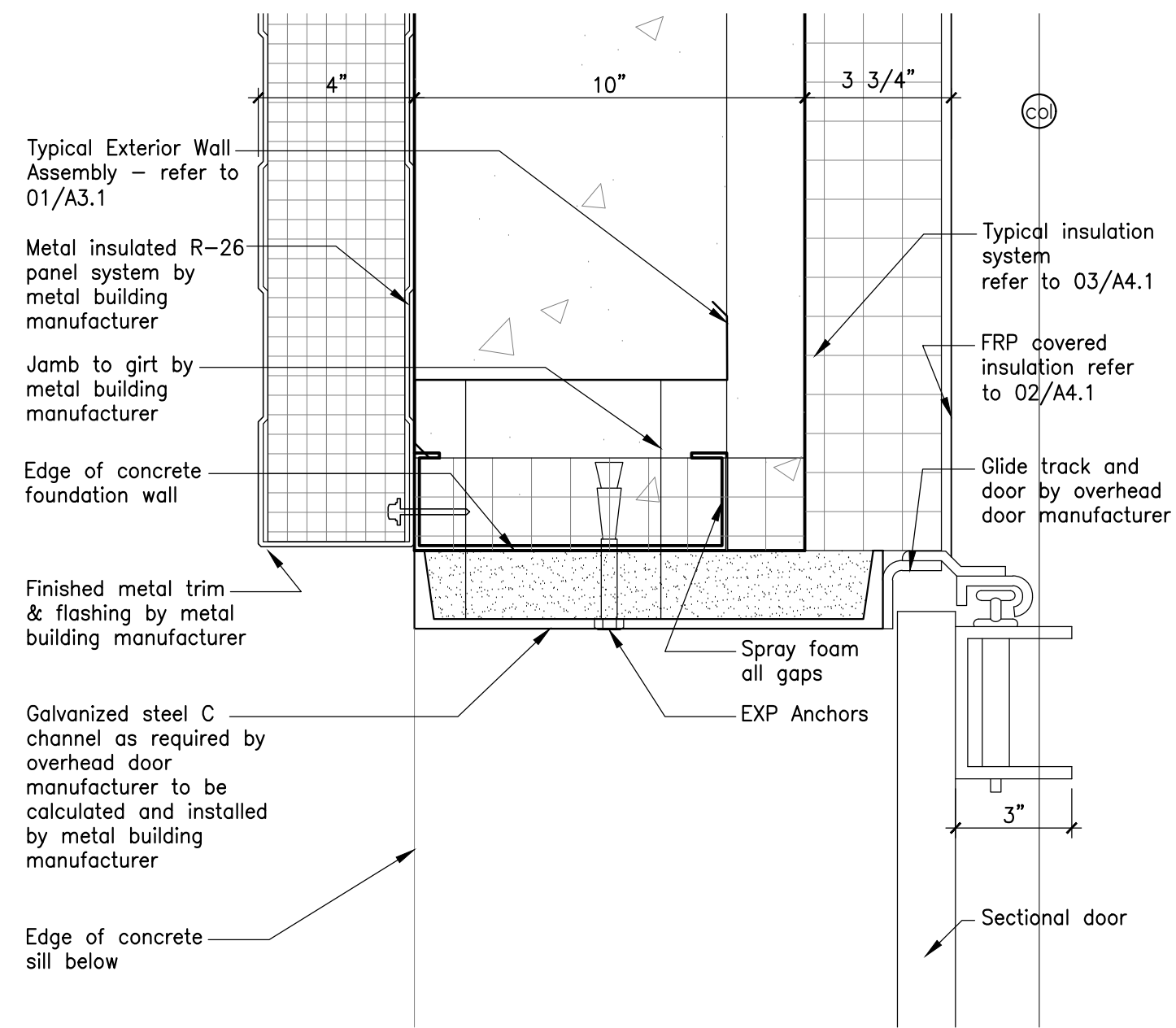
| DATE       | BY  | DESIGN/DETAILED | CHECKED/REVIEWED | REVISION 1 | REVISION 2 | REVISION 3 | FIELD CHANGES |
|------------|-----|-----------------|------------------|------------|------------|------------|---------------|
| 03/06/20   | DSM |                 |                  |            |            |            |               |
| 11/19/21   | DSM |                 |                  |            |            |            |               |
| ME         |     |                 |                  |            |            |            |               |
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| 2020.01.28 |     |                 |                  |            |            |            |               |
| DATE       |     |                 |                  |            |            |            |               |

Building Sections

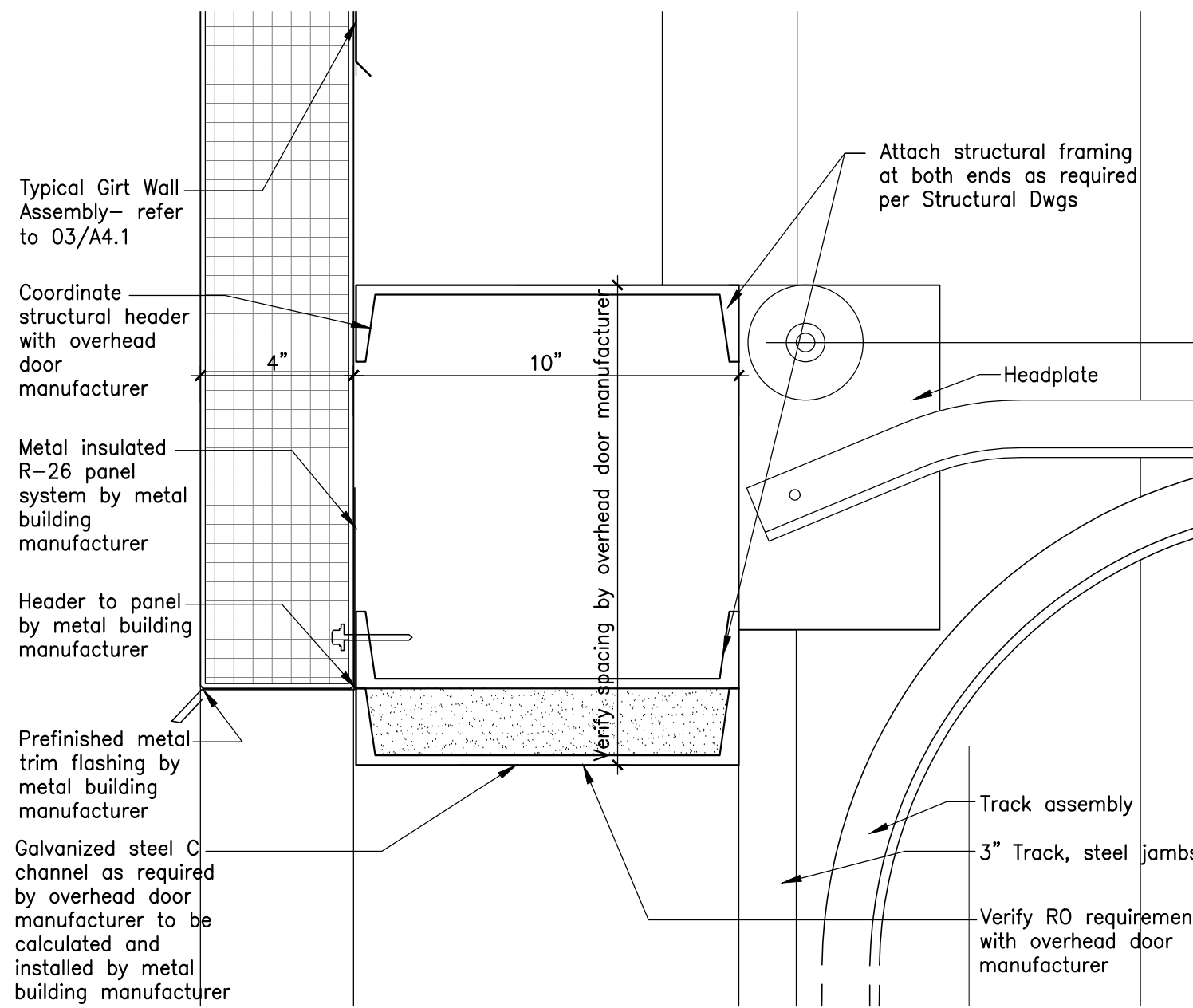
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SHEET NUMBER

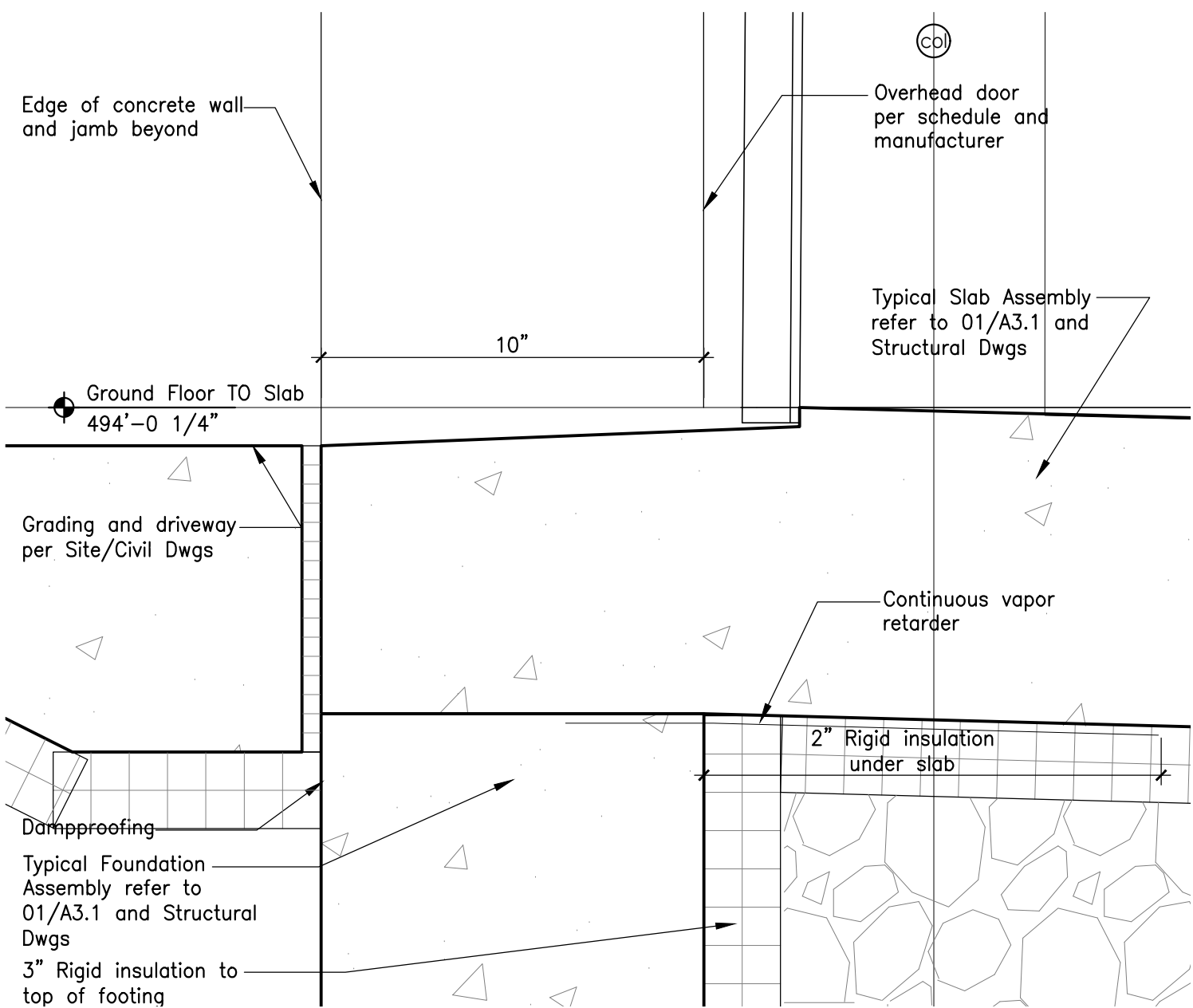
A3.1



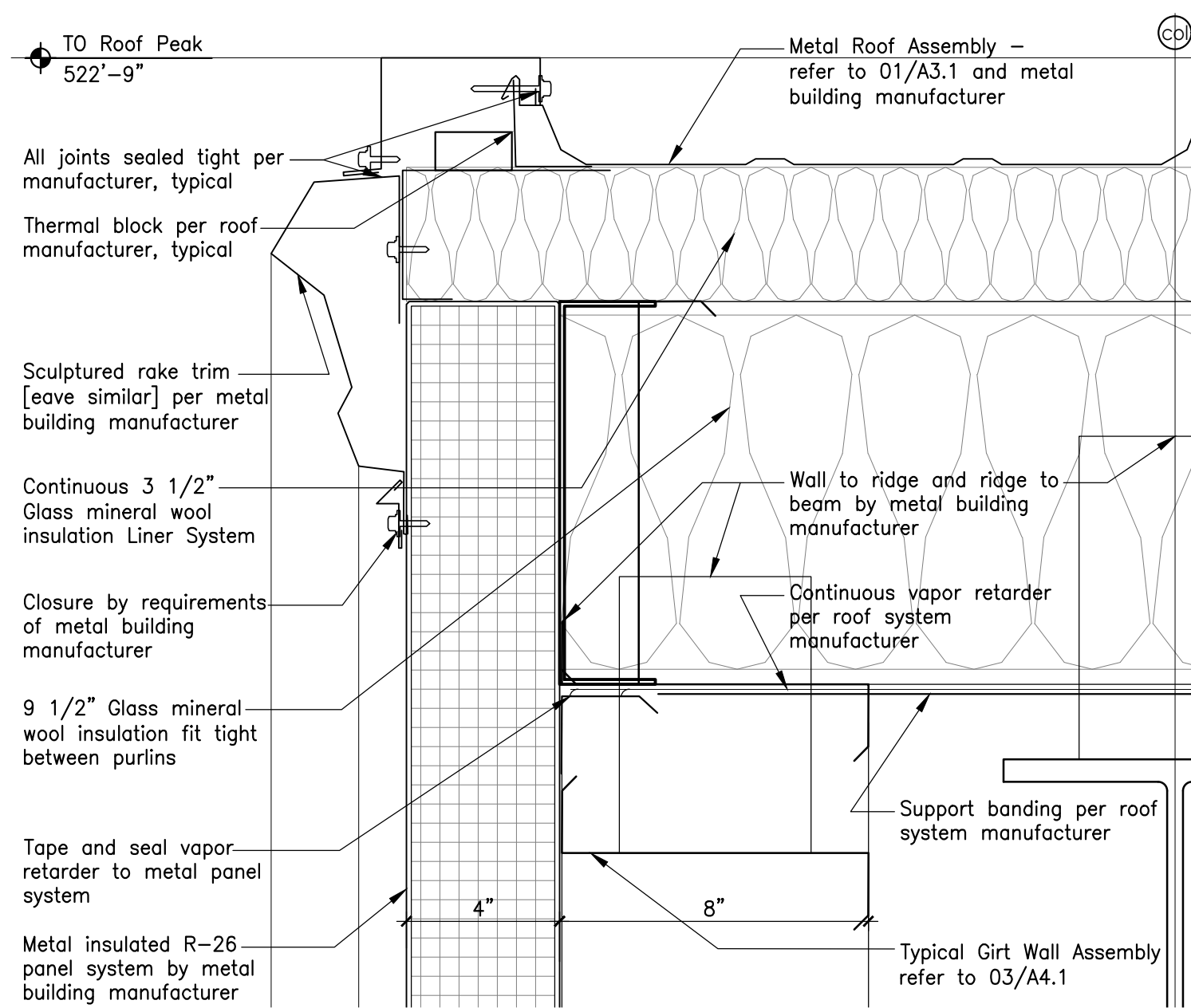
12 Plan Detail @ Overhead Door Jamb  
Scale: 3" = 1' - 0"



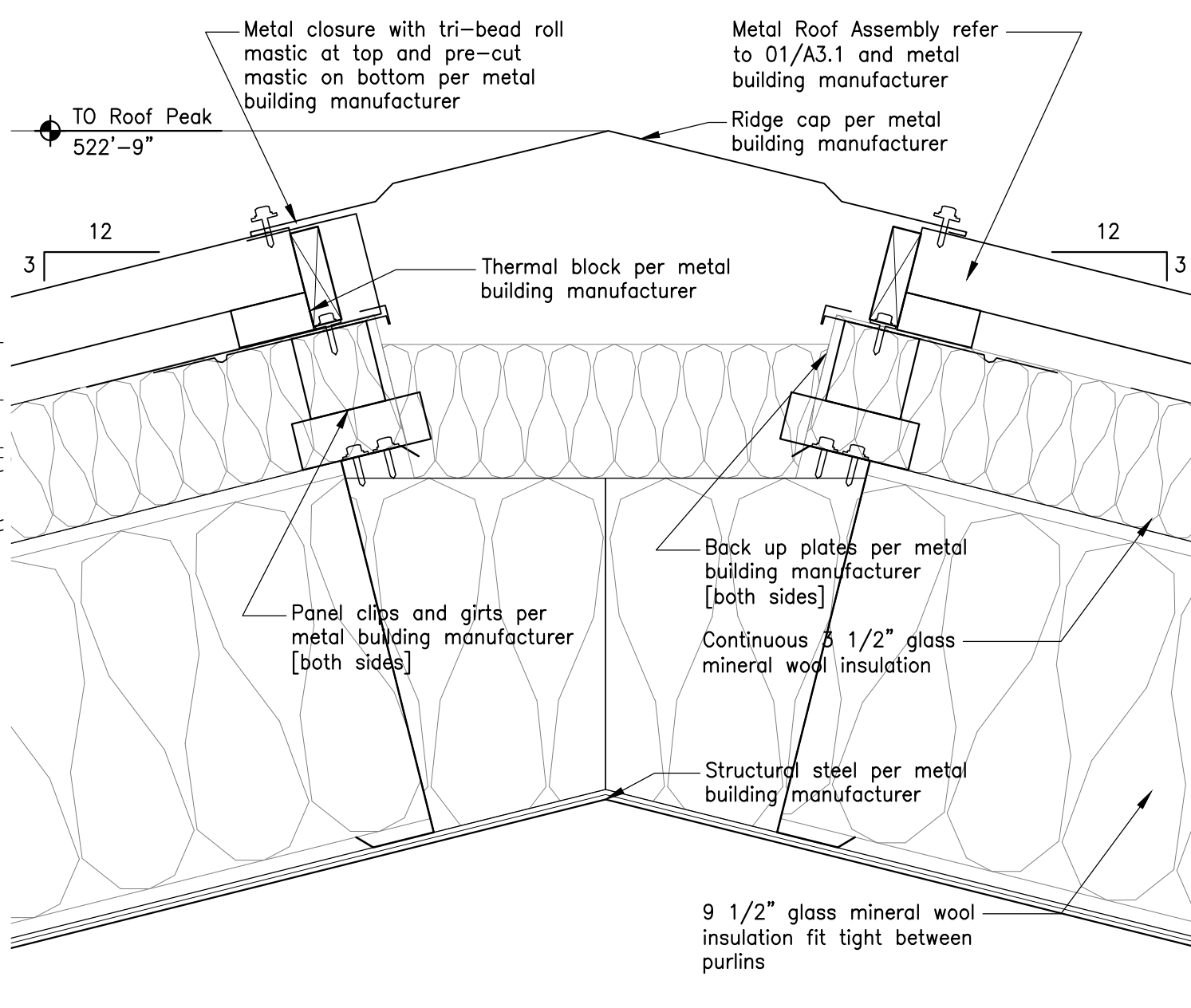
11 Section Detail @ Section Door Head  
Scale: 3" = 1' - 0"



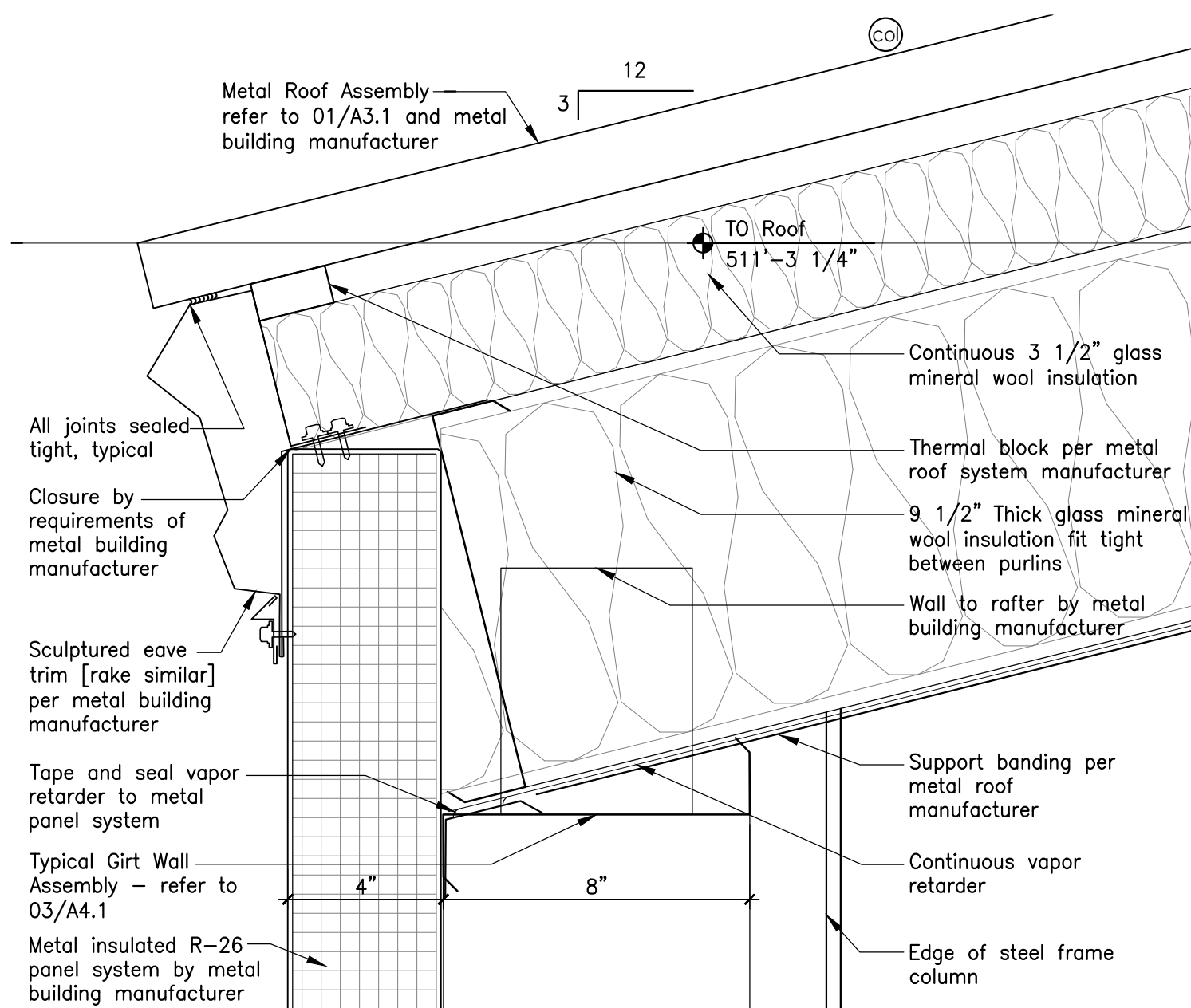
10 Section Detail @ Sectional Door Sill  
Scale: 3" = 1' - 0"



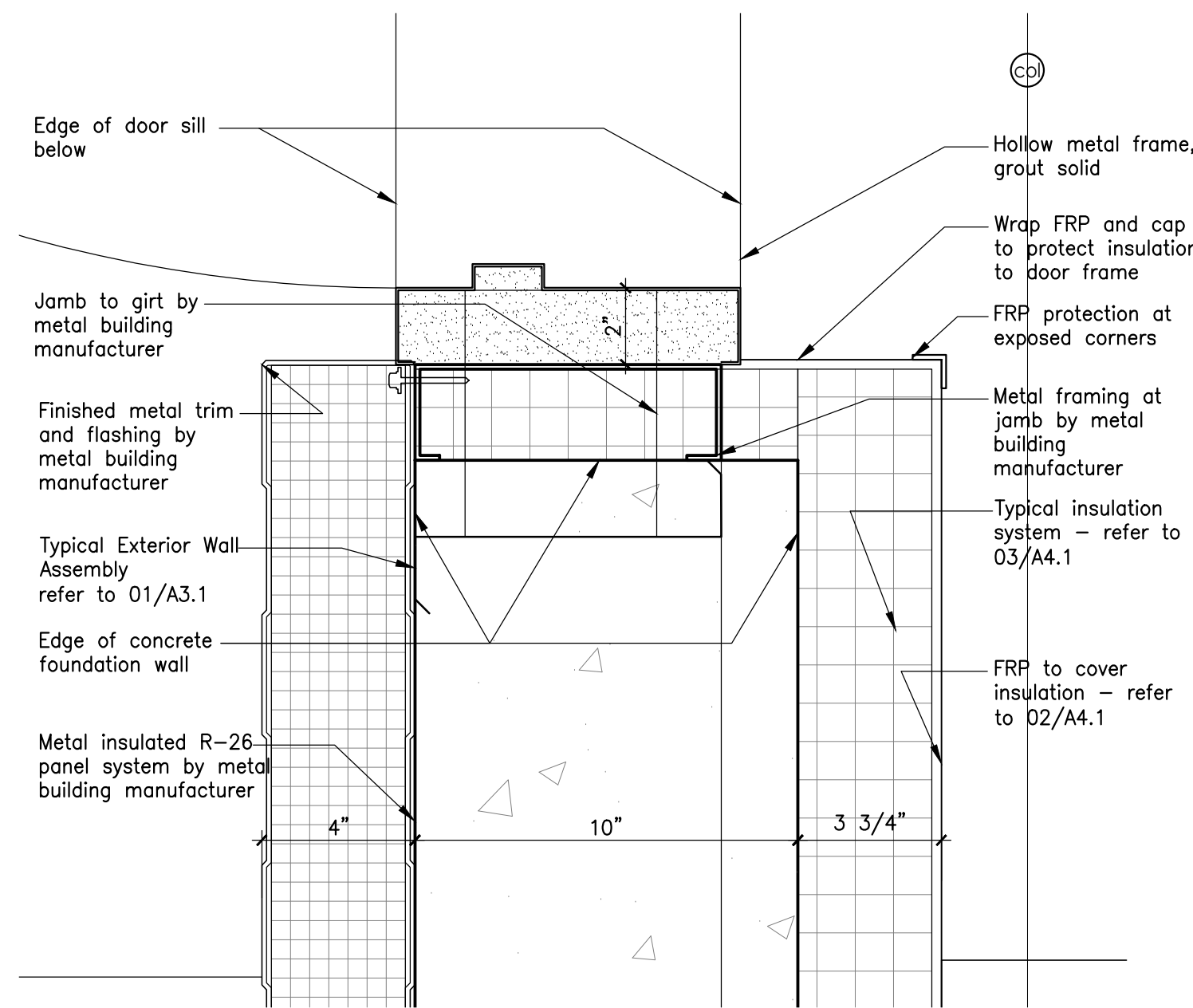
09 Section Detail @ Rake  
Scale: 3" = 1' - 0"



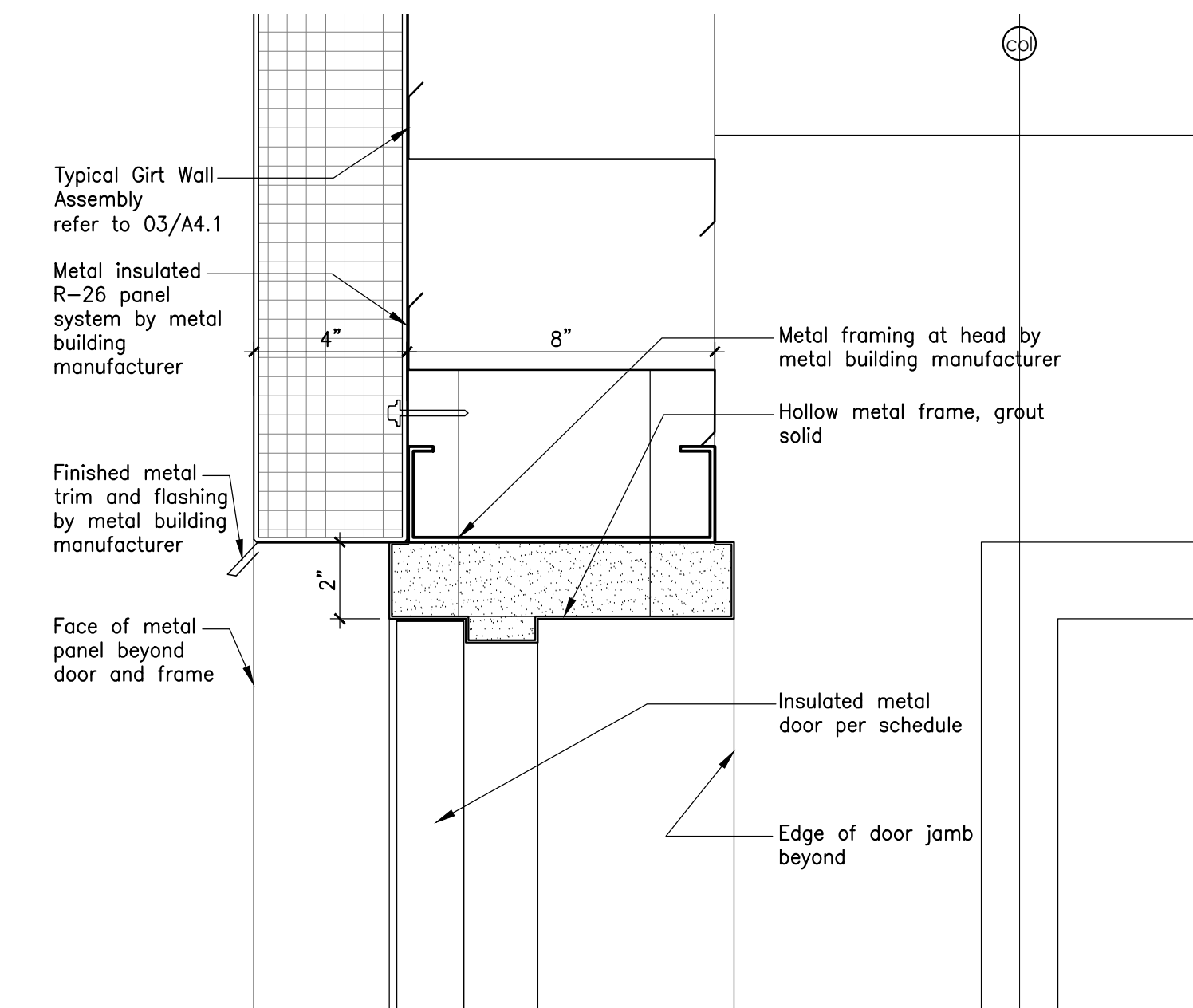
08 Section Detail @ Ridge  
Scale: 3" = 1' - 0"



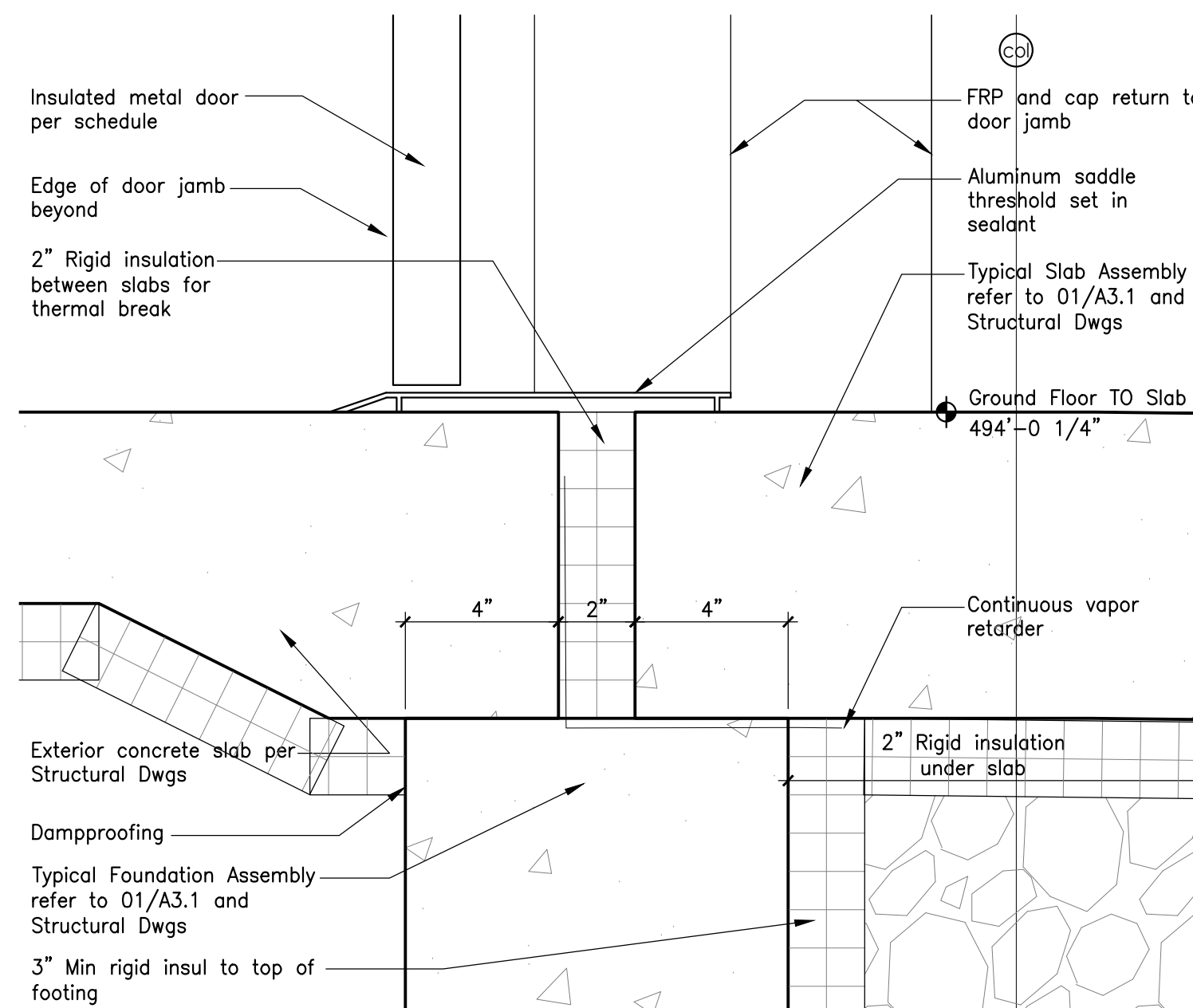
07 Section Detail @ Eave  
Scale: 3" = 1' - 0"



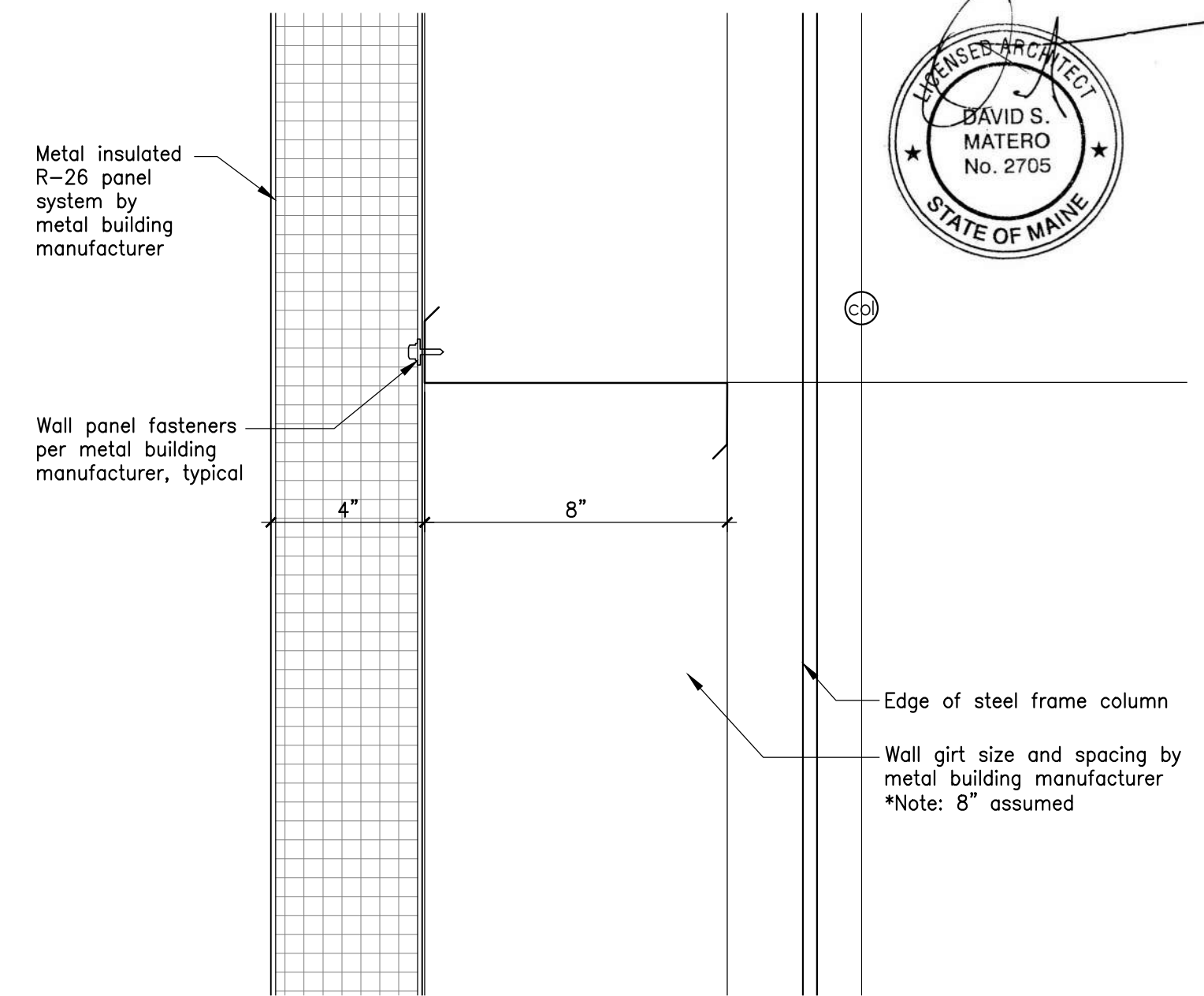
06 Plan Detail @ Exterior Door Jamb  
Scale: 3" = 1' - 0"



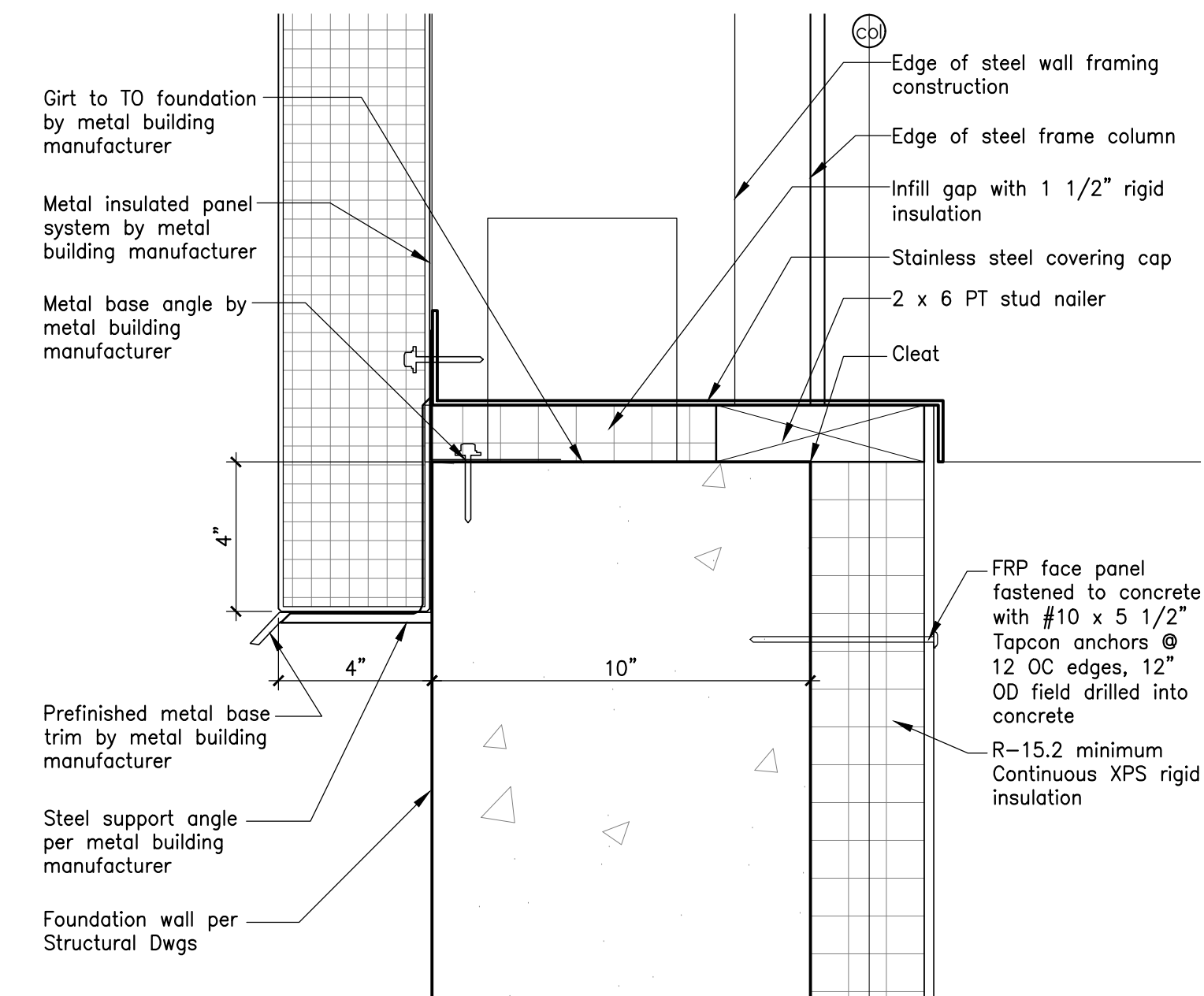
05 Section Detail @ Exterior Door Head  
Scale: 3" = 1' - 0"



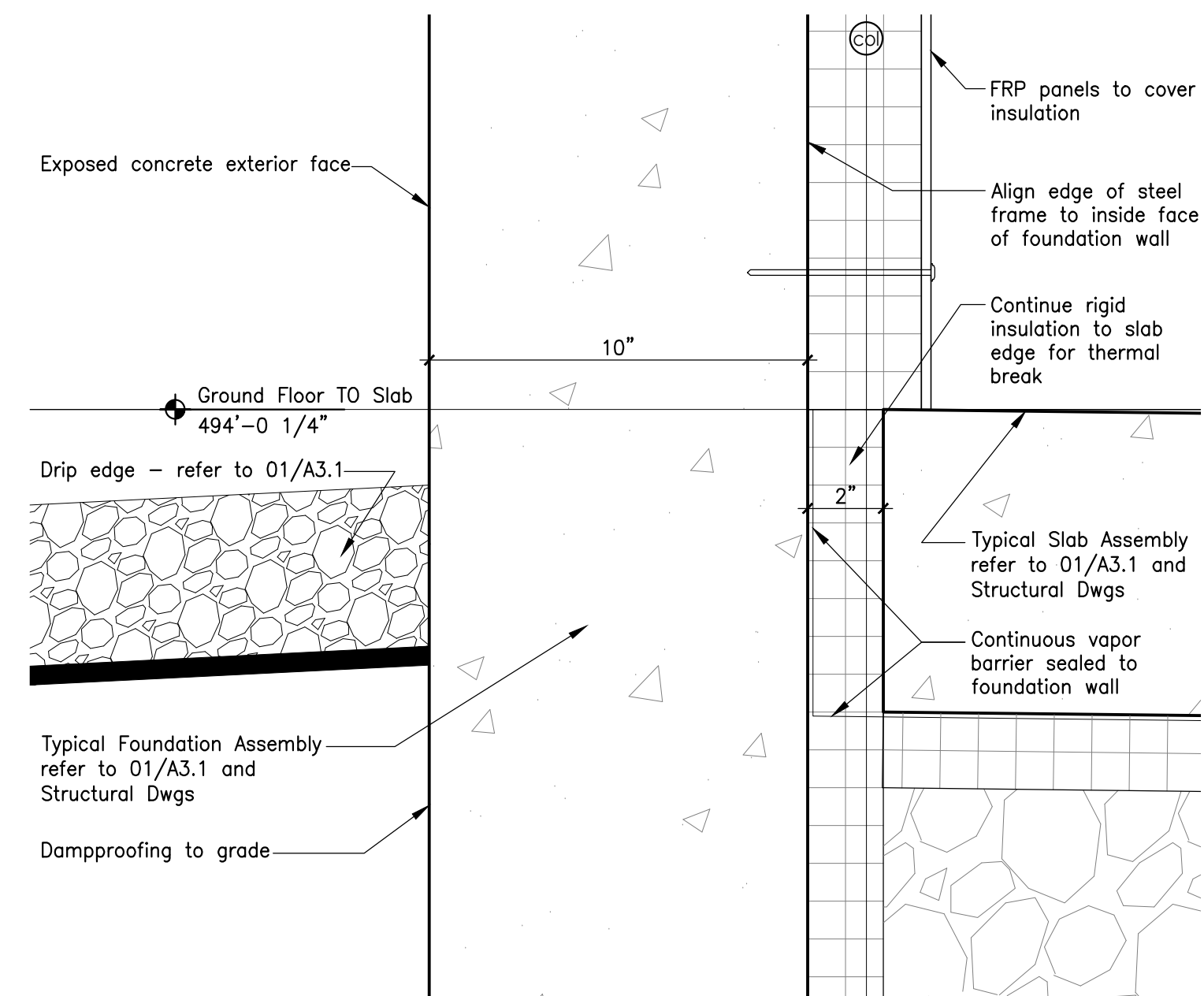
04 Section Detail @ Door Sill  
Scale: 3" = 1' - 0"



03 Section Detail @ Typical Steel Girt Wall Assembly  
Scale: 3" = 1' - 0"



02 Section Detail @ TO Foundation - Base of Metal Wall  
Scale: 3" = 1' - 0"



01 Section Detail @ Slab and Foundation Wall  
Scale: 3" = 1' - 0"

PREPARED FOR:

**STATE OF MAINE DOT**

**Sherman Truck Storage Garage**  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00

DAVID S. MATERO  
No. 2705  
STATE OF MAINE

**TRILLIUM**  
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| DATE     | BY  | DSM | ME | PE NUMBER  | DATE |
|----------|-----|-----|----|------------|------|
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| 11/19/21 |     |     |    |            |      |

DESIGN/DETAILED

CHECKED/REVIEWED

REVISION 1

REVISION 2

REVISION 3

FIELD CHANGES

Details

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Scale: 3" = 1' - 0"

**A4.1**

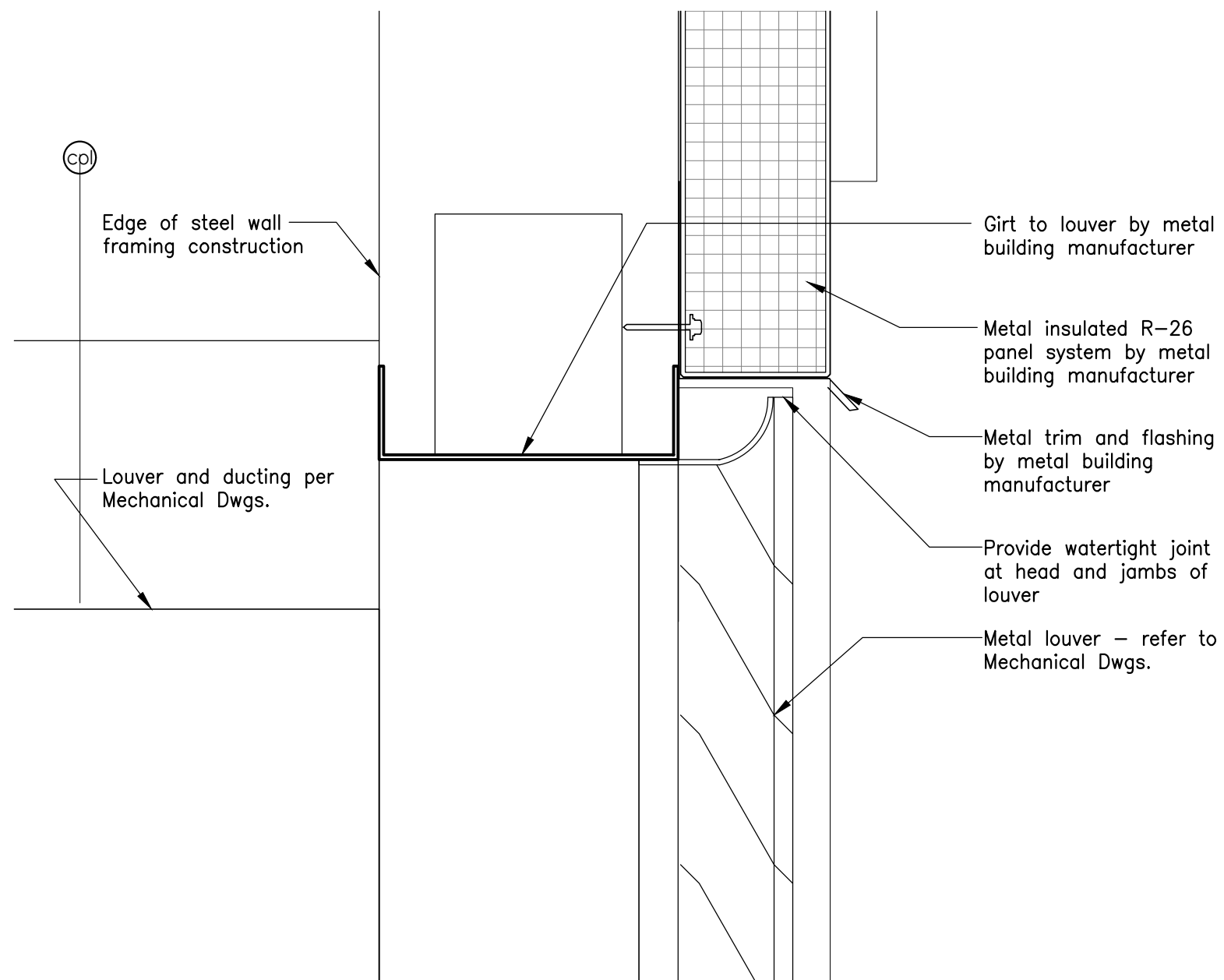


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12 Qualey Drive, Sherman, Maine  
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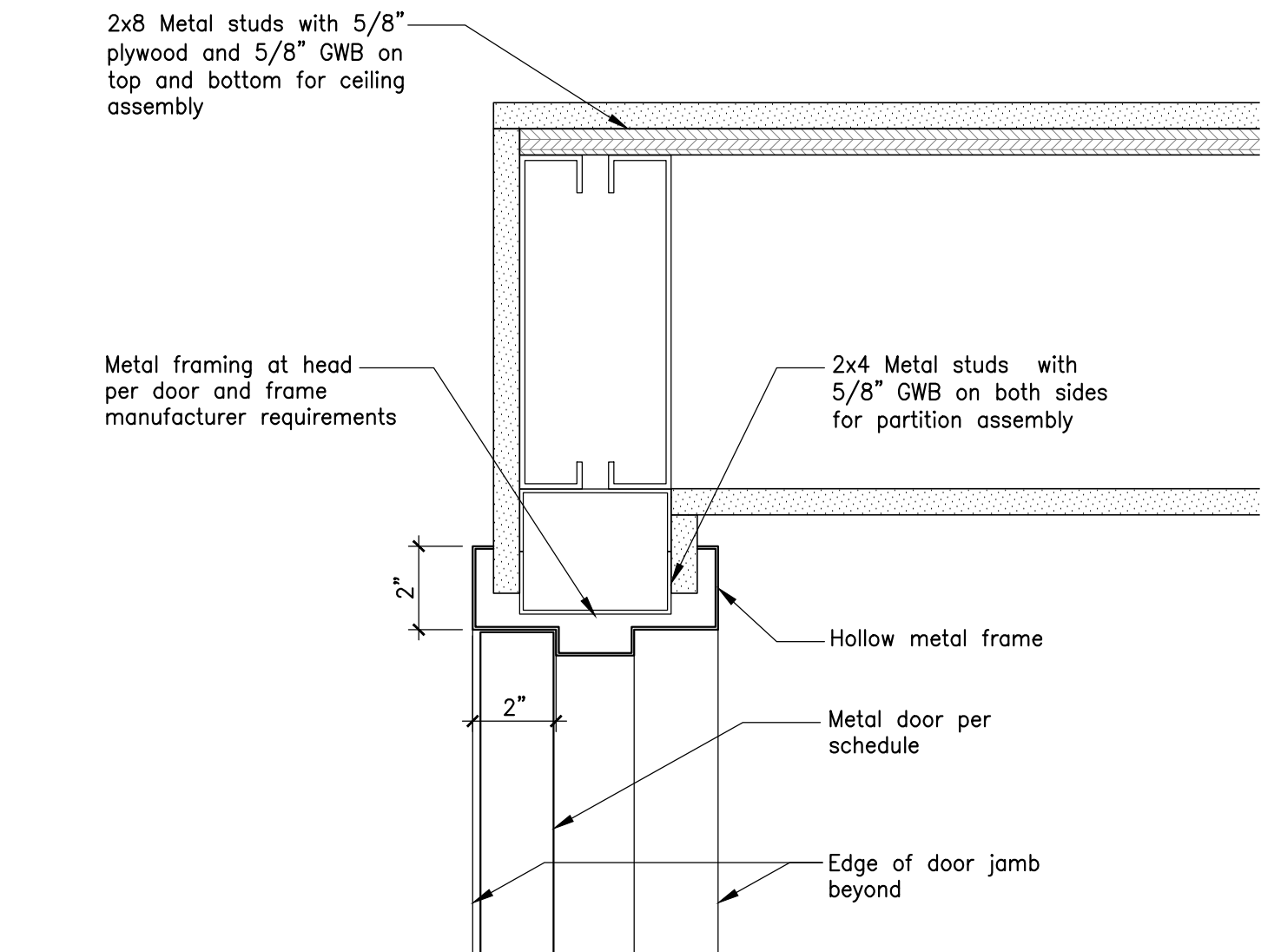
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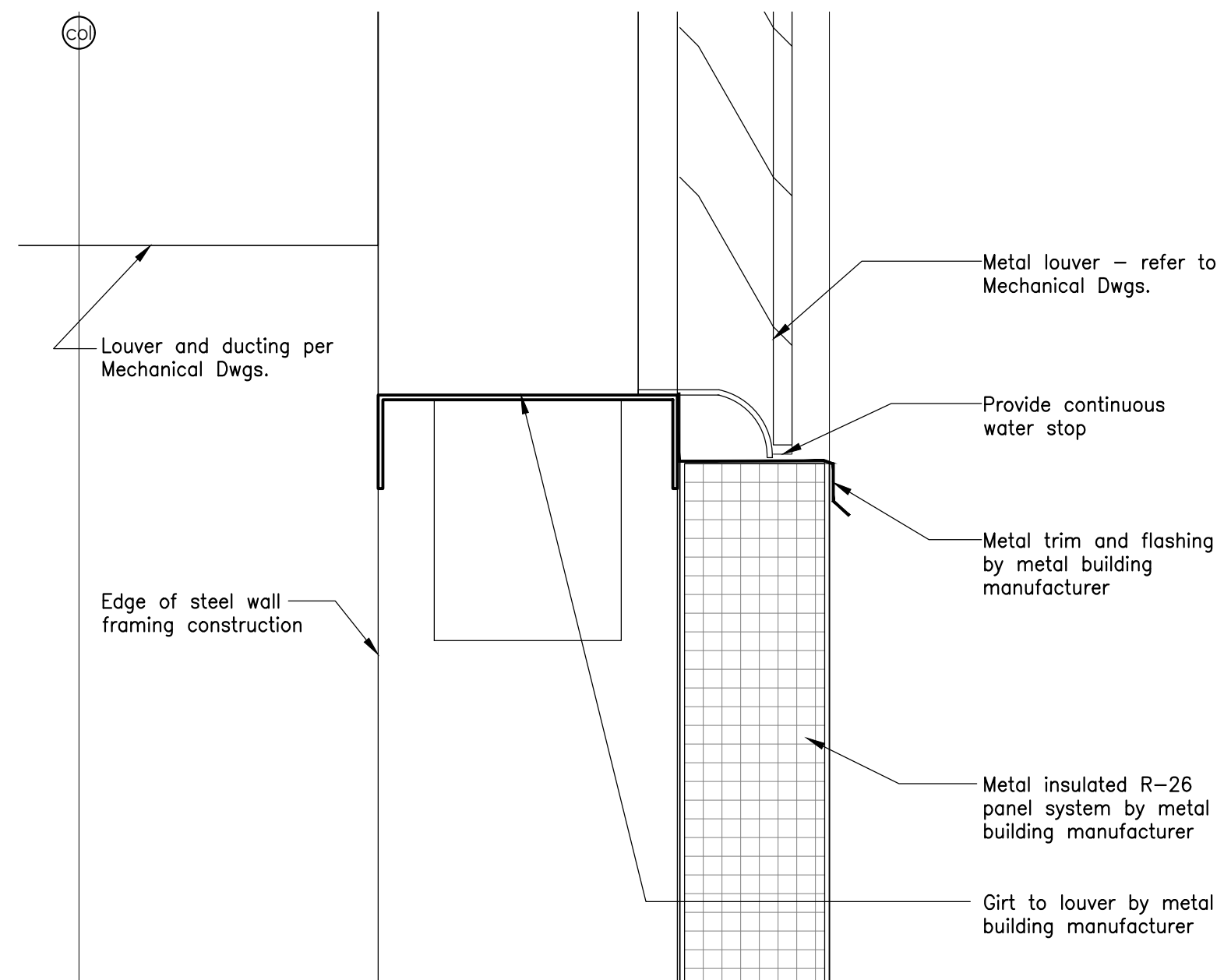
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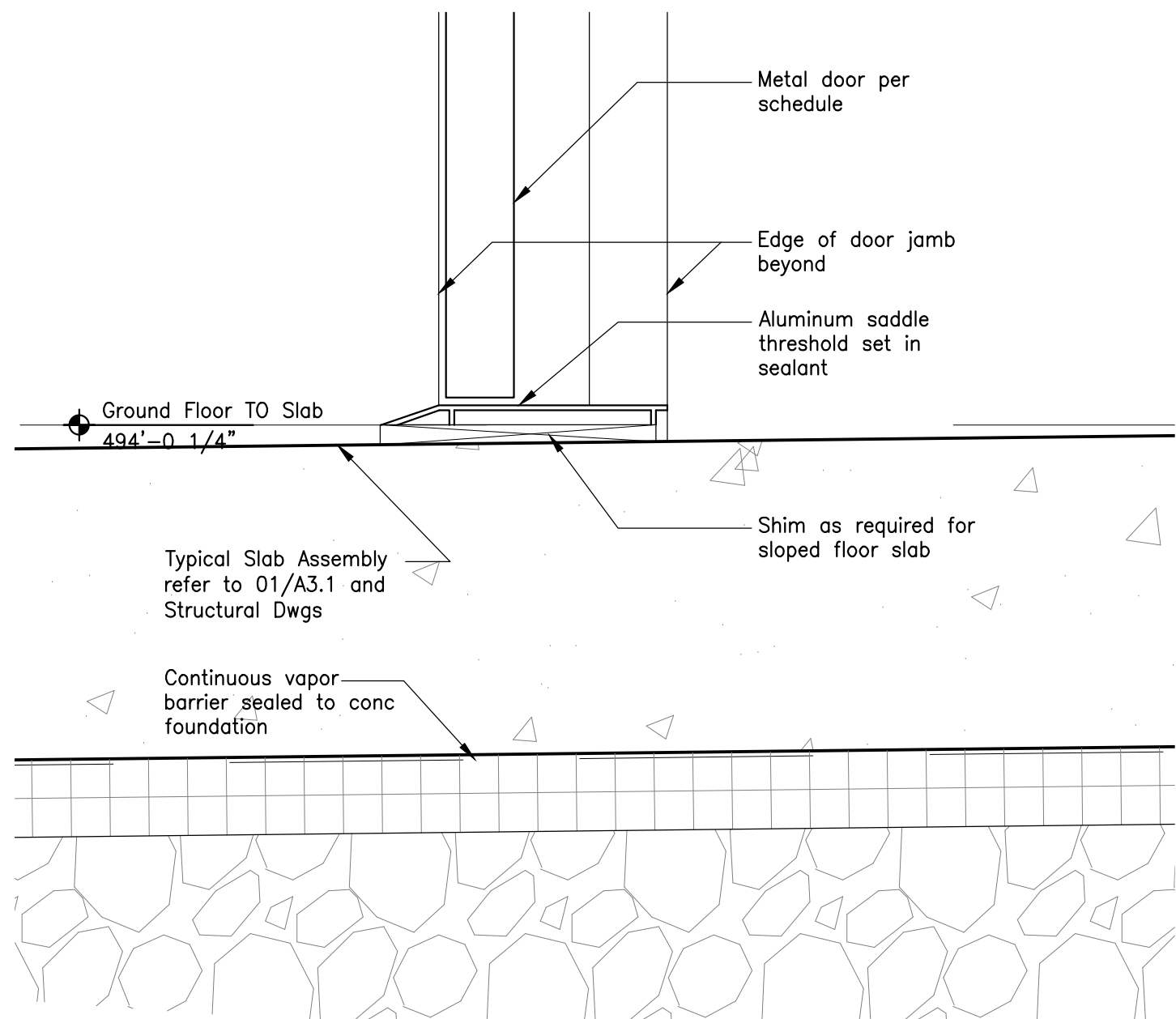
04 Section Detail @ Louver Head [Jamb Similar], Typical  
Scale: 3" = 1' - 0"



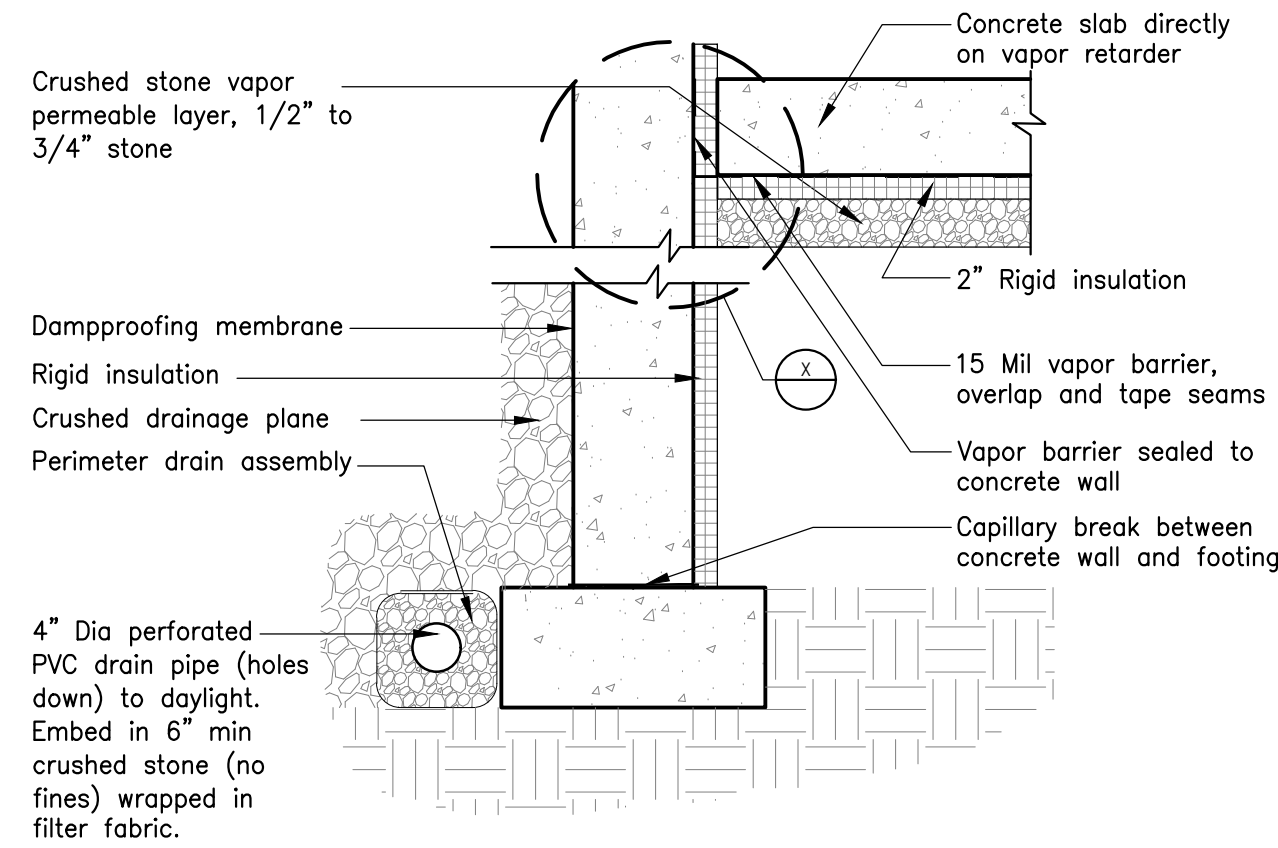
02 Section Detail @ Interior Door Head  
Scale: 3" = 1' - 0"



03 Section Detail @ Louver Sill, Typical  
Scale: 3" = 1' - 0"

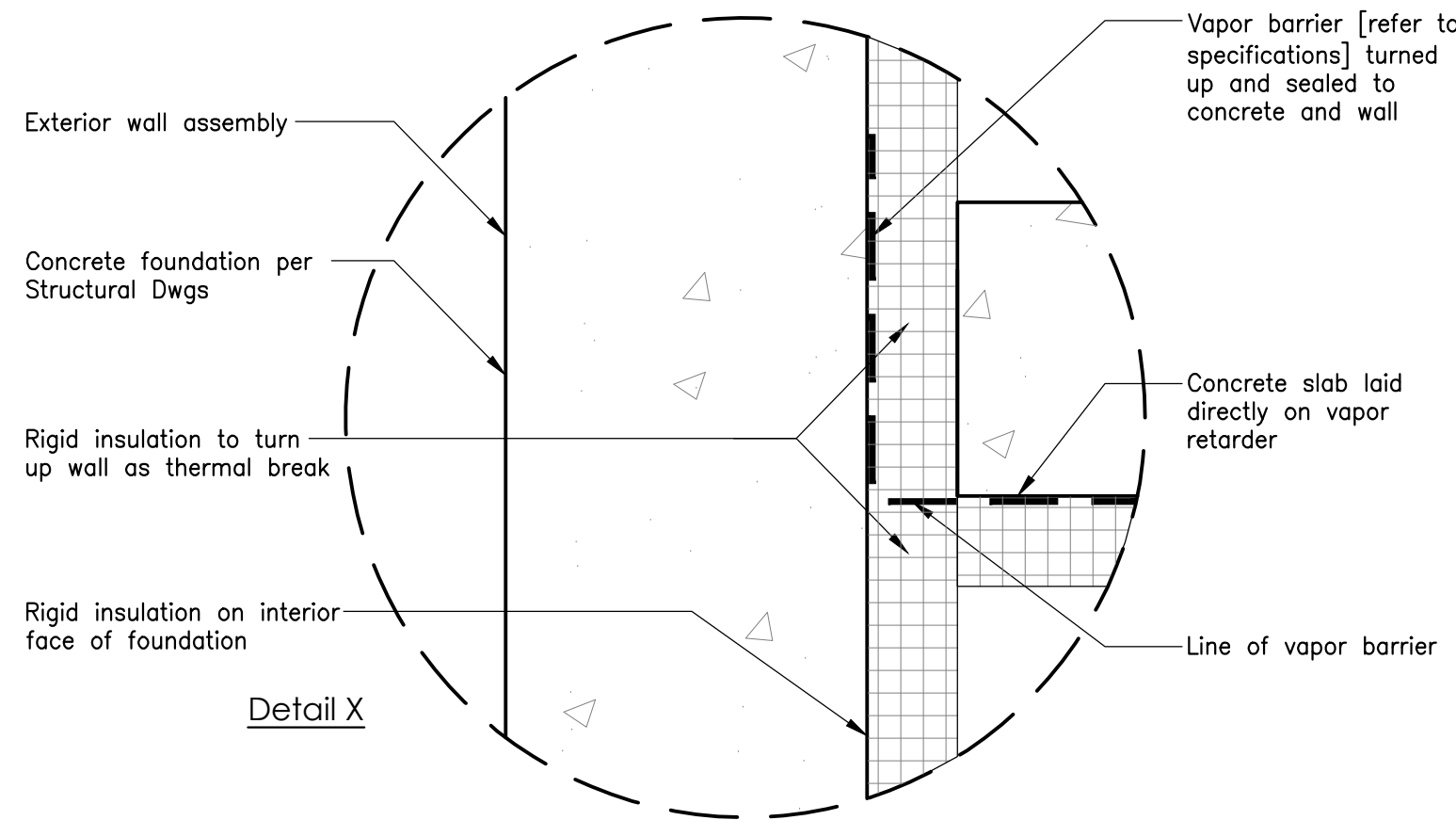


01 Section Detail @ Interior Door Sill  
Scale: 3" = 1' - 0"



General Notes

1. Provide minimum 15 mil Vapor barrier. 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 Section Detail @ Vapor Barrier / Retarder of Slab & Foundation  
Scale: NTS

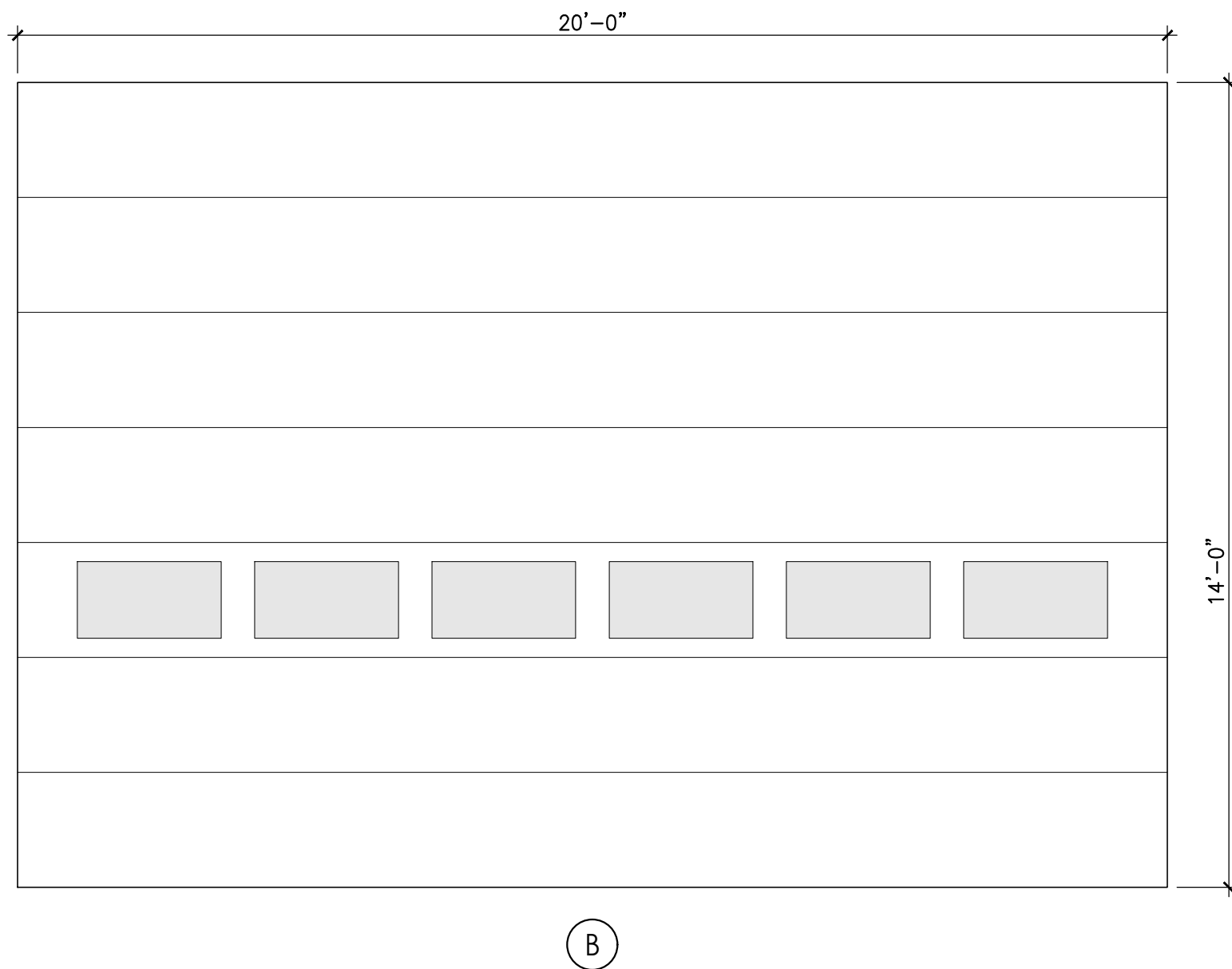
| DATE       | BY  | DESIGN/DETAILED | CHECKED/REVIEWED | REVISION 1 | REVISION 2 | REVISION 3 | FIELD CHANGES |
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A4.2



02 Door Elevations

DOOR AND FRAME NOTES

- All doors shall be located 4" off adjacent wall except where noted or dimensioned
- All door thicknesses to be 1 3/4" unless noted otherwise
- Provide minimum of 20 ga. double studs at all door jambs.
- All floor material transitions shall occur under door in closed position
- All door hardware shall meet ADA. Handles, pulls and latches shall be lever style. When sliding doors are fully opened (if specified), operating hardware shall be exposed and usable from both sides.
- Provide wall-mounted door stops at all door openings opening against adjacent wall or door. Provide solid wood blocking at all locations of wall mounted door stops.
- Provide floor mounted door stops at all doors where wall stops are not appropriate.

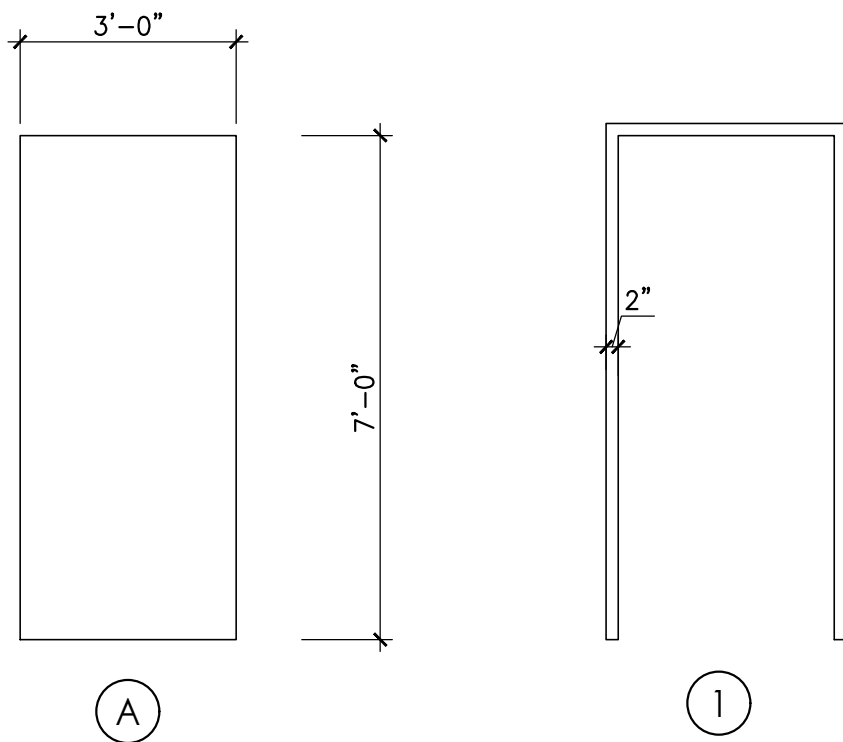
HARDWARE ABBREVIATIONS

|    |                              |
|----|------------------------------|
| BC | Ball Catch                   |
| DB | Dead Bolt                    |
| DP | Door Pull                    |
| EL | Entry Lock                   |
| MP | Multi-point French Door Lock |
| PD | Pocket Door HW               |
| PL | Privacy Lock                 |
| PS | Passage Set                  |
| RC | Remote Control Opener        |
| SC | Screen Door HW               |

ABBREVIATIONS

|         |                         |
|---------|-------------------------|
| AL      | Aluminum                |
| Clsr    | Closer                  |
| Ex      | Existing                |
| HM      | Hollow Metal            |
| Hrdware | Hardware                |
| Insul   | Insulated               |
| Ob      | Obscure Glass, Tempered |
| Pnt     | Paint                   |
| Pre     | Prefinished             |
| Smoke   | Smoke Seal Frame        |
| Thick   | Thickness               |
| Wstrp   | Weatherstripping        |
| Wd      | Wood                    |
| GL      | Glazing                 |
| Mfr     | Manufacturer            |

| DOOR SCHEDULE |           |        |           |          |      |        |            |          |      |         |         |         |         |               |         |        |             |         |     |        |            |                 |            |                               |         |
|---------------|-----------|--------|-----------|----------|------|--------|------------|----------|------|---------|---------|---------|---------|---------------|---------|--------|-------------|---------|-----|--------|------------|-----------------|------------|-------------------------------|---------|
| Door          |           |        |           |          |      |        |            | Frame    |      |         |         |         | Hrdware | Miscellaneous |         |        |             |         |     |        |            |                 |            |                               | Remarks |
| No.           | Width     | Height | Thickness | Material | Type | Finish | Insulation | Material | Type | Head    | Jamb    | Sill    | No. Set | Rating        | Glazing | Closer | Exit Device | Key Pad | MHO | Wstrip | ADA Access | Tactile Warning | Sound Seal |                               |         |
| 1-01          | 3'-0"     | 7'-0"  | 1 3/4"    | Steel    | A    | Pre    | Yes        | HM       | 1    | 05/A4.1 | 06/A4.1 | 04/A4.1 |         |               |         | Yes    |             | Yes     |     | Yes    |            |                 |            |                               |         |
| 1-02          | 20'-0"    | 14'-0" | Per Mfr   | Steel    | B    | Pre    | Yes        | Per Mfr  | —    | 11/A4.1 | 12/A4.1 | 10/A4.1 |         |               | Yes     |        |             |         |     | Yes    |            |                 |            | Overhead per Manufacturer     |         |
| 1-03          | 20'-0"    | 14'-0" | Per Mfr   | Steel    | B    | Pre    | Yes        | Per Mfr  | —    | 11/A4.1 | 12/A4.1 | 10/A4.1 |         |               | Yes     |        |             |         |     | Yes    |            |                 |            | Overhead per Manufacturer     |         |
| 1-04          | 3'-0"     | 7'-0"  | 1 3/4"    | Steel    | A    | Pre    | Yes        | HM       | 1    | 05/A4.1 | 06/A4.1 | 04/A4.1 |         |               |         | Yes    |             | Yes     |     | Yes    |            |                 |            |                               |         |
| 1-05          | 3'-0" (2) | 7'-0"  | 1 3/4"    | Steel    | A    | Pre    |            | HM       | 1    |         |         |         |         |               |         |        |             |         |     |        |            |                 |            | Electrical closet double door |         |

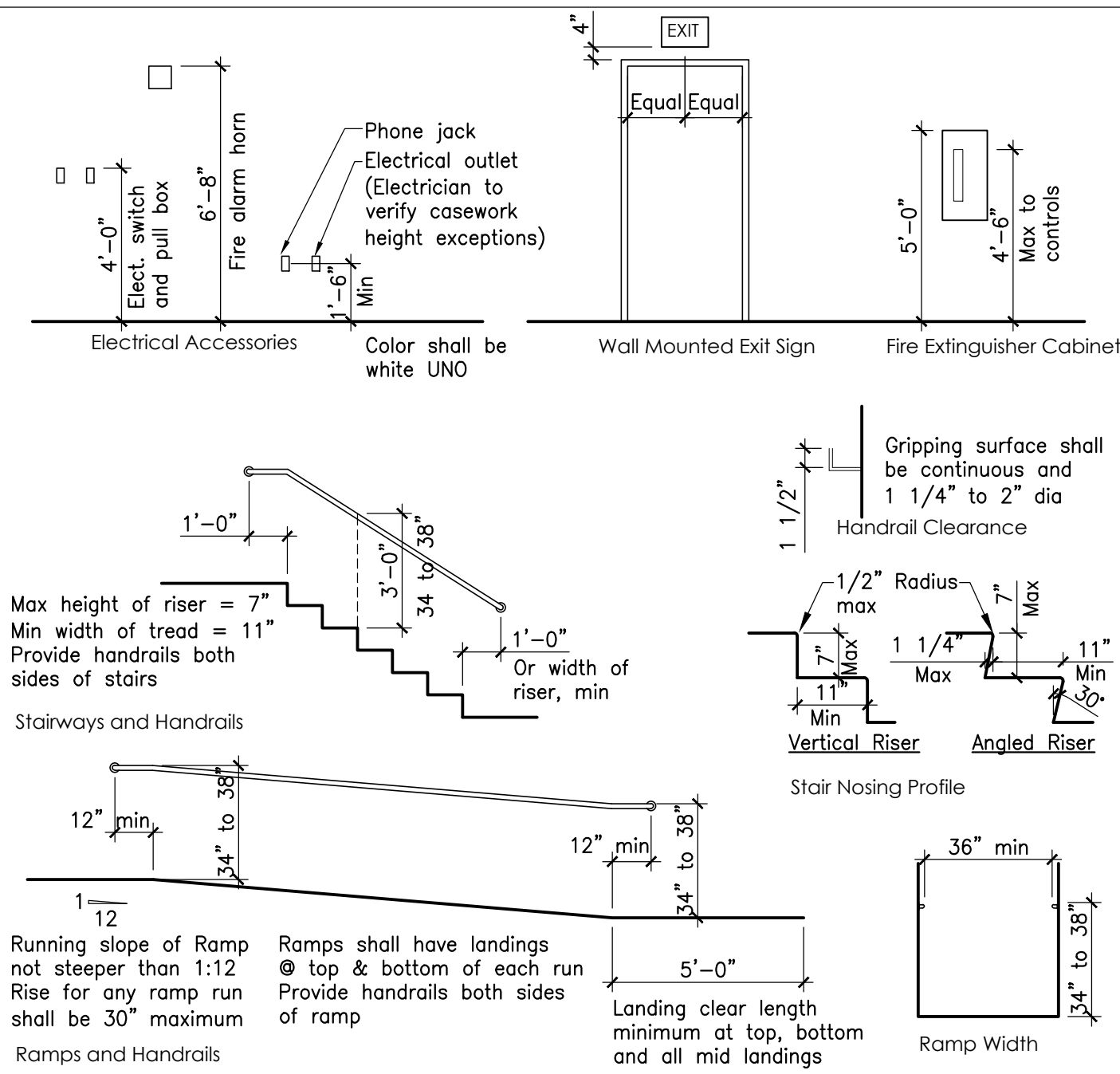


Scale: 3/8" = 1'-0"

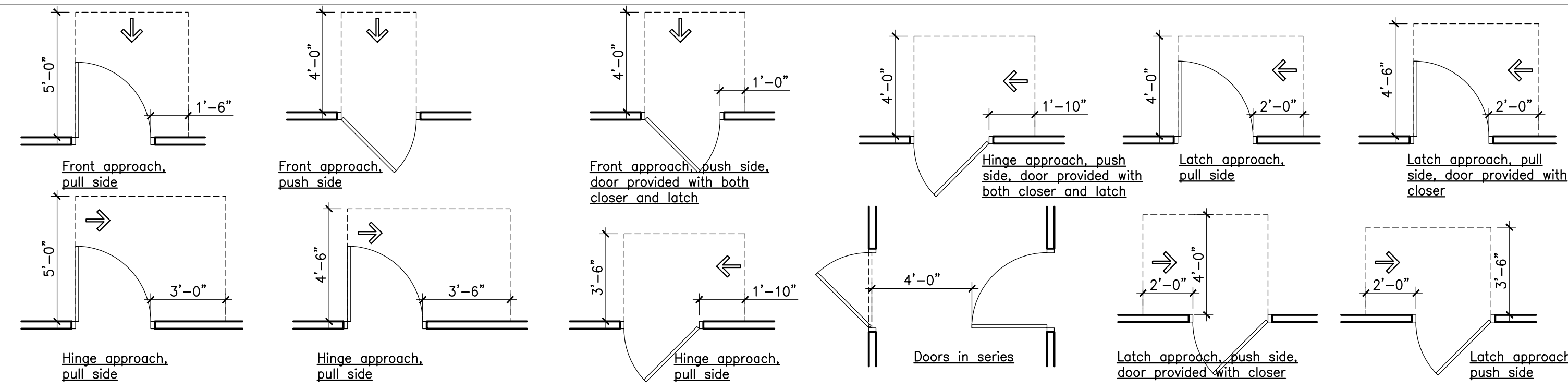
01 Door Frame Elev

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

STANDARD HEIGHTS AND CLEARANCES / TYPICAL BARRIER FREE REQUIREMENTS



MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES



APPLICABLE CODES

International 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  
2015 International Energy Conservation Code  
  
Plumbing, Mechanical and Electrical system are included and shall meet all applicable codes.

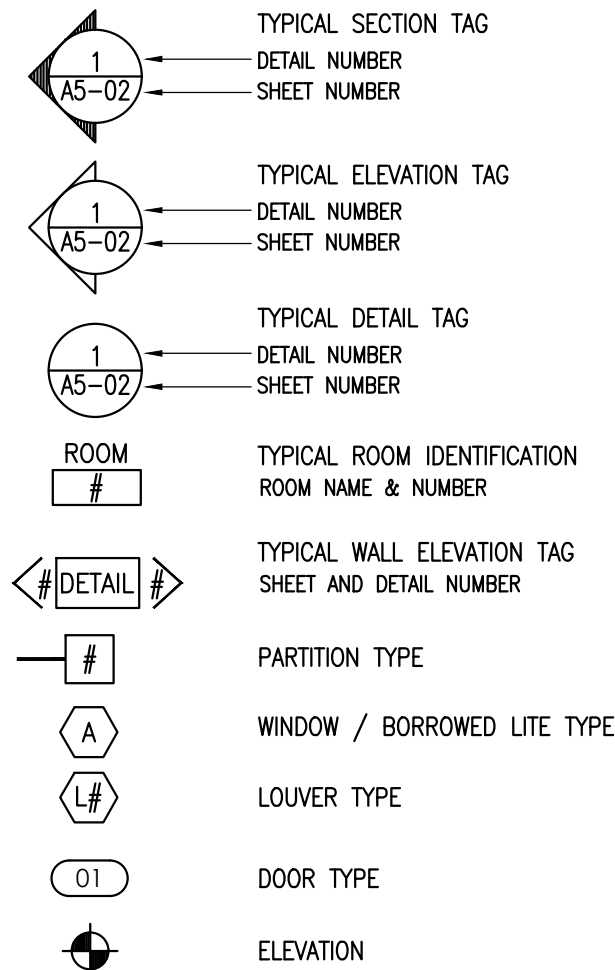
ABBREVIATIONS

|           |                           |        |                         |       |                           |
|-----------|---------------------------|--------|-------------------------|-------|---------------------------|
| Act       | Acoustical Tile           | Ga     | Gauge                   | Prep  | Preparation               |
| AFF       | Above Finished Floor      | GC     | General Contractor      | PSF   | Pounds per Square Foot    |
| Alt       | Alternate                 | GI     | Glass                   | PSI   | Pounds per Square Inch    |
| Alum      | Aluminum                  | GWb    | Gypsum Wallboard        | PT    | Pressure Treated          |
| AP        | Access Panel              | Gyp    | Gypsum                  | QT    | Quarry Tile               |
| Arch      | Architect                 | HD     | High Density            | R     | Radius, Riser             |
| BD        | Board                     | HR     | Hour                    | RD    | Roof Drain                |
| Bl        | Bituminous                | HC     | Hollow Core             | Rec   | Recreation                |
| Blgd      | Building                  | H, Hgt | Height                  | Rect  | Rectangular               |
| Blkg      | Blocking                  | HM     | Hollow Metal            | Ref   | Reference                 |
| BO        | Bottom Of                 | Hor    | Horizontal              | Req   | Required                  |
| Btw       | Between                   | Htg    | Heating                 | Reinf | Reinforcing               |
|           |                           | HVAC   | Heating/Ventilation/Air | 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             | Incl   | Include, Including      | S     | South                     |
| Clo       | Closet                    | ID     | Inside Diameter         | San   | Sanitary                  |
| Clg       | Ceiling                   | In (") | Inch                    | SC    | Solid Core                |
| CMU       | Concrete Masonry Unit     | Insul  | Insulate, Insulating    | SD    | Storm Drain               |
| Co        | Cleanout                  | Int    | Interior                | SF    | Square Foot               |
| Col       | Column                    | Inv    | Invert                  | Sht   | Sheet                     |
| Conc      | Concrete                  | JC     | Janitor's Closet        | Sim   | Similar                   |
| Const     | Construction              | Jt     | Joint                   | Spec  | Specification             |
| Cont      | Continue, Continuous      | Lam    | Laminated               | STC   | Sound Transmission        |
| Coord     | Coordinate                | Lav    | Lavatory                | Std   | Standard                  |
| CT        | Ceramic Tile              | LCC    | Lead Coated Copper      | Stl   | Steel                     |
| CUH       | Cabinet Unit Heater       | LF     | Linear Foot             | Sto   | Storage                   |
| CW        | Cold Water                | Lin    | Linear                  | Susp  | Suspended                 |
| CY        | Cubic Yard                |        |                         |       |                           |
| 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           | Thick | Thickness                 |
| Dim       | Dimension                 | MO     | Masonry Opening         | TO    | Top Of                    |
| Dn        | Down                      | MR     | Moisture Resistant      | TV    | Television                |
| Dwg       | Drawing                   | Mtd    | Mounted                 | Typ   | Typical                   |
| E         | East                      | Mtg    | Mounting                | UL    | Underwriters Laboratories |
| Ea        | Each                      | Mtl    | Metal                   | UNO   | Unless Noted Otherwise    |
| EF        | Exhaust Fan               | N      | North                   | Util  | Utility                   |
| EJ        | Expansion Joint           | Net    | Natural                 |       |                           |
| Elev      | Elevation                 | NIC    | Not in Contract         | VCT   | Vinyl Composite Tile      |
| Eq        | Equal                     | No     | Number                  | Vent  | Ventilation               |
| Exam      | Examination               | NTS    | Not to Scale            | Vert  | Vertical                  |
| Ex, Exist | Existing                  |        |                         | Vest  | Vestibule                 |
| Exp       | Expansion                 | OC     | On Center               | VWB   | Vinyl Wall Base           |
| Ext       | Exterior                  | OD     | Outside Diameter        |       |                           |
|           |                           | OH     | Opposite Hand           | W     | West, Width               |
| FAP       | Fire Alarm Pull Station   | PI     | Plate                   | W/D   | Washer / Dryer            |
| FBO       | Furnished by Owner        | PLam   | Plastic Laminate        | WC    | Water Closet              |
| FCO       | Floor Cleanout            | Plywd  | Plywood                 | Wd    | Wood                      |
| FD        | Floor drain               | Pnt    | Paint                   | W/O   | Without                   |
| FDN       | Foundation                | Poly   | Polyethylene            | WWM   | Welded Wire Mesh          |
| FEC       | Fire Extinguisher Cabinet | Pre    | Pre-finished            | XPS   | Extruded Polystyrene      |
| Fin       | Finish                    |        |                         |       |                           |
| Flr       | Floor                     |        |                         |       |                           |
| Fl (")    | Foot                      |        |                         |       |                           |
| Ftg       | Foot                      |        |                         |       |                           |

GENERAL NOTES

- All work included in these drawings and specifications shall conform to all state, national, and other codes and ordinances.
- The General Contractor shall be responsible for obtaining building permits and for payment of all fees and hook-ups.
- 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.
- The General Contractor shall obtain approval from the owner for staging areas and hours of allowable work times.
- 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.
- General Contractor shall maintain a safe egress way throughout construction that is clearly identified.
- All doors shall be located a minimum of 4" (wall to frame) off adjoining stud walls, except where noted or dimensioned otherwise.
- All exposed pipes and conduits shall be painted, color to be chosen by Architect.
- All exposed structure shall be painted, color to be chosen by Architect.
- All gypsum wall board within 3'-0" of plumbing fixtures shall be moisture resistant.
- Before penetrating or otherwise modifying joists, beams, or other structural members, consult with the Architect on maximum size and location of penetrations.
- Provide double studs at all door frames over 3'-0" wide.
- All materials in this building shall be new and not previously used UNO.
- All penetrations through rated walls and floor/ceiling assemblies shall be firestopped by specific subcontractor requiring penetration.
- All exits shall be kept readily accessible and unobstructed at all times.
- 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.
- Dimensions are to the face of framing, studs, structural grid lines and/or foundations UNO.
- General Contractor shall properly dispose of all demolished and construction debris off-site, and shall make every effort to conserve and recycle materials.
- General Contractor shall install blocking in walls for cabinetry, shelving, handrails, mirror and accessories.
- Provide a continuous bead and sealant in all joints in the building envelope and penetrations that may allow for passage of moisture or vapor gas through structure.
- Guarantee: All materials and work shall be guaranteed for a minimum of one year from the date of final payment.

LEGEND SYMBOLS



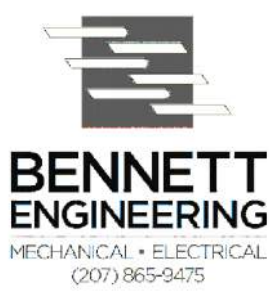
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|          |           |     |                 |                  | 2020.01.28 |            |            |               |
|          |           |     |                 |                  |            |            |            |               |

Door Schedule, Notes & Types

Issued for Bid  
Scale: 3/8" = 1' - 0"

SHEET NUMBER

A9.1

GENERAL NOTES

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

|          |                                                                                                     |
|----------|-----------------------------------------------------------------------------------------------------|
| IBC 2009 | EDITION OF THE IBC INTERNATIONAL BUILDING CODE                                                      |
| ASCE 7   | 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     | AMERICAN SOCIETY OF TESTING AND MATERIALS                                                           |
| NDS      | 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 = 4'-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 REINFORCING NOTES

USE DEFORMED BILLET-STEEL REINFORCING BARS, GRADE 60, IN CONFORMANCE WITH ASTM A615. REINFORCEMENT SHALL BE ACCURATELY PLACED AND SUPPORTED PRIOR TO CONCRETE PLACEMENT, AND SHALL BE SECURED AGAINST DISPLACEMENT.

THE CONTRACTOR SHALL SUBMIT REINFORCING SHOP DRAWINGS TO THE DEPARTMENT FOR REVIEW AND ACCEPTANCE PRIOR TO COMMENCING FABRICATION. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES". SHOP DRAWINGS SHALL SHOW REINFORCING STEEL PLACEMENT DETAILS AND SECTIONS.

| MINIMUM CONCRETE COVER FOR REINFORCEMENT                                                                    |           |
|-------------------------------------------------------------------------------------------------------------|-----------|
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH                                                      | 3 INCHES  |
| CONCRETE EXPOSED TO EARTH OR WEATHER                                                                        | 2 INCHES  |
| CONCRETE NOT EXPOSED TO EARTH OR WEATHER IN SLABS AND WALLS (FOR PRIMARY REINFORCEMENT, TIES, AND STIRRUPS) | 1½ INCHES |
| CONCRETE NOT EXPOSED TO EARTH OF WEATHER IN COLUMNS AND BEAMS                                               | 1½ INCHES |

CONTINUOUS REINFORCEMENT SHALL BE TENSION LAP SPLICED PER LAP SPLICE LENGTH TABLE, U.N.O..

| LAP SPLICE LENGTH TABLE |    |    |    |    |    |    |    |  |
|-------------------------|----|----|----|----|----|----|----|--|
| BAR SIZE                | #3 | #4 | #5 | #6 | #7 | #8 | #9 |  |
| MIN LAP SPLICE (INCHES) | 18 | 24 | 30 | 36 | 48 | 64 | 81 |  |

REINFORCEMENT HOOKS SHALL CONFORM TO STANDARD HOOKS ACCORDING TO ACI 318. WELDING OF REINFORCEMENT IS NOT PERMITTED, U.N.O.

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 NOVEMBER 2014", 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.

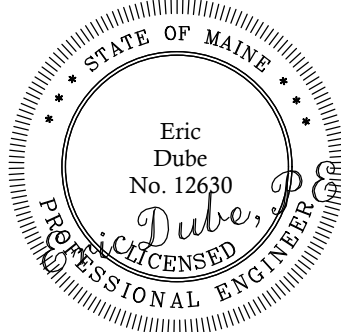
ANCHOR BOLTS SHALL CONFORM TO ASTM F1554. ANCHOR BOLTS SHALL HAVE HEAVY HEX NUTS AND LOCK WASHERS.

ABBREVIATIONS

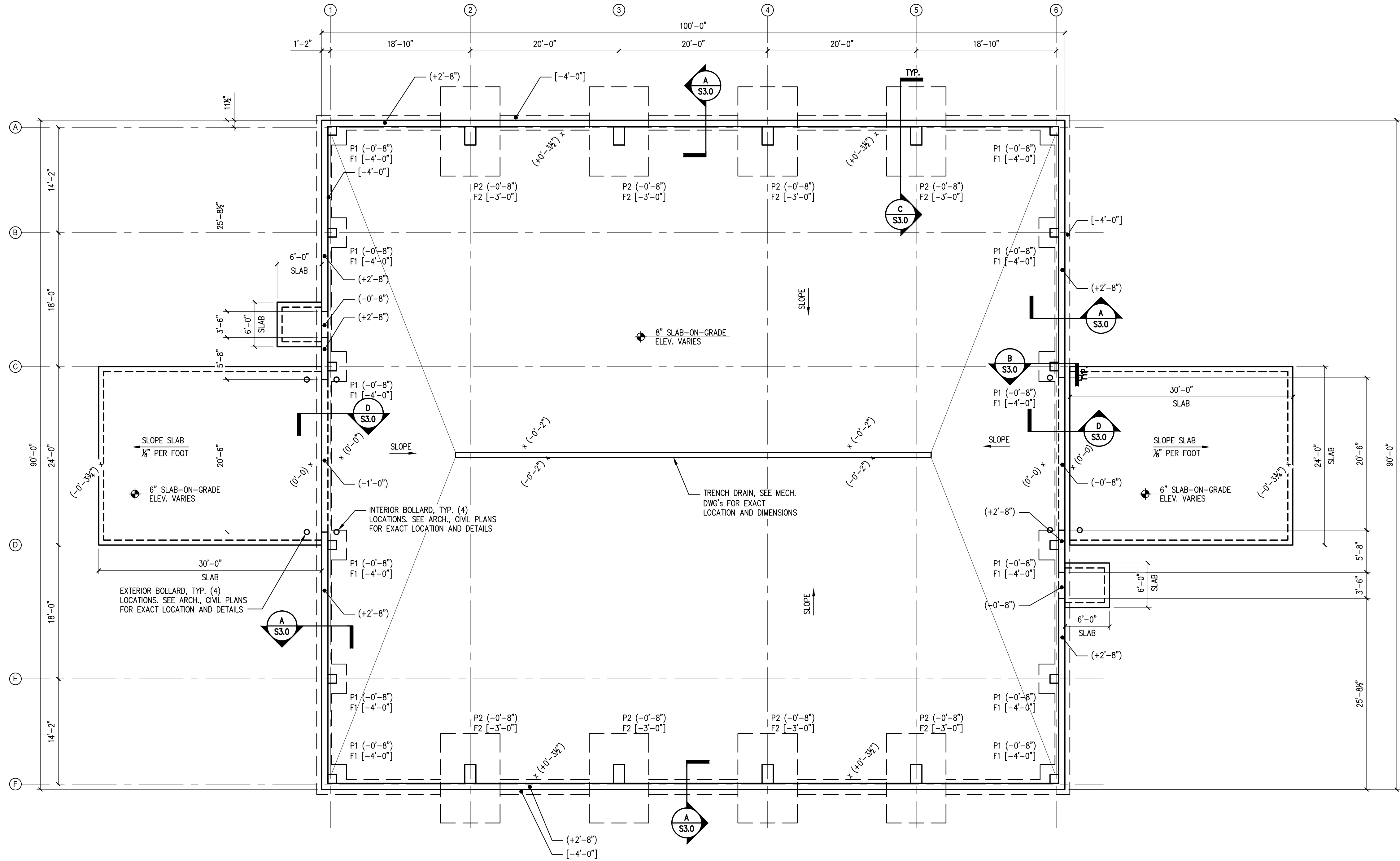
|                |                           |             |                              |
|----------------|---------------------------|-------------|------------------------------|
| AB             | ANCHOR BOLT               | L           | ANGLE                        |
| ADDL           | ADDITIONAL                | LL          | DOUBLE ANGLE                 |
| ARCH           | ARCHITECT                 | LB          | POUND                        |
| &              | AND                       | LF          | LINEAR FOOT                  |
|                |                           | LIH         | LONG LEG HORIZONTAL          |
|                |                           | LLV         | LONG LEG VERTICAL            |
| B/FTG, BOF     | BOTTOM OF FOOTING         |             |                              |
| BLDG           | BUILDING                  |             |                              |
| BM             | BEAM                      | MAX         | MAXIMUM                      |
| BOT            | BOTTOM                    | MECH        | MECHANICAL                   |
| BRG            | BEARING                   | MFR         | MANUFACTURER                 |
| BTWN           | BETWEEN                   | MIN         | MINIMUM                      |
|                |                           | MISC        | MISCELLANEOUS                |
| C              | STRUCTURAL STEEL CHANNEL  |             |                              |
| CANT           | CANTILEVER                | NF          | NEAR FACE                    |
| CP             | 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                  |             |                              |
| DM             | DIMENSION                 | REINF       | REINFORCING STEEL            |
| DISCONT        | DISCONTINUOUS             | REQ, REQD   | REQUIRED                     |
| DWG            | DRAWING                   | RD          | ROOF DRAIN                   |
| (E), EX, EXIST | EXISTING                  |             |                              |
| EA             | EACH                      | SC          | SLIP CRITICAL                |
| EF             | EACH FACE                 | SECT        | SECTION                      |
| EL             | ELEVATION                 | SHEATH      | SHEATHING                    |
| EQ             | EQUAL                     | SIM         | SIMILAR                      |
| EQUIP          | EQUIPMENT                 | SOG         | SLAB-ON-GRADE                |
| ES             | EACH SIDE                 | SPAC        | SPACING                      |
| EW             | EACH WAY                  | SPECS       | SPECIFICATIONS               |
| EXP            | EXPANSION                 | SS          | STAINLESS STEEL              |
| EXT            | EXTERIOR                  | STD         | STANDARD                     |
|                |                           | STIFF       | STIFFENER                    |
|                |                           | STL         | STEEL                        |
|                |                           | STR         | STRAIGHT                     |
|                |                           | STRUCT      | STRUCTURAL                   |
|                |                           |             |                              |
|                |                           | T           | TOP                          |
|                |                           | T&B         | TOP AND BOTTOM               |
|                |                           | TOC, T/CONC | TOP OF CONCRETE              |
|                |                           | T/FTG, TOF  | TOP OF FOOTING               |
|                |                           | TEMP        | TEMPERATURE                  |
|                |                           | T/SHELF     | TOP OF SHELF                 |
|                |                           | T/SLAB      | TOP OF SLAB                  |
|                |                           | T/STL       | TOP OF STEEL                 |
|                |                           | T/WALL      | TOP OF WALL                  |
|                |                           | TS          | STRUCTURAL TUBING            |
|                |                           | TYP         | TYPICAL                      |
|                |                           |             |                              |
|                |                           | UNO         | UNLESS NOTED OTHERWISE       |
|                |                           |             |                              |
|                |                           | VER, VERT   | VERTICAL                     |
|                |                           | VIF         | VERIFY IN FIELD              |
|                |                           |             |                              |
|                |                           | W           | STRUCTURAL STEEL WIDE FLANGE |
|                |                           | w/          | WITH                         |
|                |                           | w/O         | WITHOUT                      |
|                |                           | WP          | WORK POINT                   |
|                |                           | 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                     |  |
|                   |  | BRICK                     |  |
|                   |  | CMU                       |  |



|                                                                                                                                                                                |                                                                                  |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------|
| PREPARED FOR:                                                                                                                                                                  | STATE OF MAINE DOT                                                               |                  |
|                                                                                                                                                                                | Sherman Truck Storage Garage<br>12 Ordway Drive, Sherman, Maine<br>WIN 025240.00 |                  |
| <br><b>TRILLIUM</b><br>ENGINEERING GROUP<br>189 MAIN STREET SUITE 200<br>YARMOUTH, ME 04096 |                                                                                  |                  |
| David Matero<br>49 Centre Street<br>Bath, Maine 04530<br>207.389.4078<br>info@davidmatero.com                                                                                  |                                                                                  |                  |
| <br><b>BENNETT</b><br>ENGINEERING<br>MECHANICAL • ELECTRICAL<br>(207) 965-9475              |                                                                                  |                  |
| DATE                                                                                                                                                                           | ME-                                                                              | PE NUMBER        |
|                                                                                                                                                                                |                                                                                  | 2021117          |
| BY                                                                                                                                                                             |                                                                                  | DATE             |
|                                                                                                                                                                                |                                                                                  |                  |
| DESIGN/DETAILED                                                                                                                                                                |                                                                                  |                  |
| CHECKED/REVIEWED                                                                                                                                                               |                                                                                  |                  |
| REVISION 1                                                                                                                                                                     |                                                                                  |                  |
| REVISION 2                                                                                                                                                                     |                                                                                  |                  |
| REVISION 3                                                                                                                                                                     |                                                                                  |                  |
| FIELD CHANGES                                                                                                                                                                  |                                                                                  |                  |
| MDOT SHERMAN                                                                                                                                                                   |                                                                                  | STRUCTURAL NOTES |
| SHEET NUMBER                                                                                                                                                                   |                                                                                  |                  |
| S1.0                                                                                                                                                                           |                                                                                  |                  |



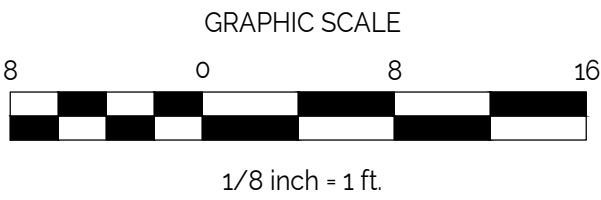
NOTE: FINAL PIER LAYOUT, DIMENSIONS, AND FOOTINGS TO BE COORDINATED AND ADJUSTED WITH FINAL PRE-ENGINEERED METAL BUILDING LOADS AND DIMENSIONS

| SPREAD FOOTING SCHEDULE |        |       |       |                                                      |
|-------------------------|--------|-------|-------|------------------------------------------------------|
| TYPE                    | LENGTH | WIDTH | DEPTH | REINFORCING                                          |
| F1                      | 4'-0"  | 4'-0" | 1'-0" | (5)-#6's BOTT, EW                                    |
| F2                      | 12'-0" | 8'-0" | 2'-0" | #6 @ 10" o.c. E.W., TOP<br>#6 @ 12" o.c. E.W., BOTT. |

### FOUNDATION PLAN

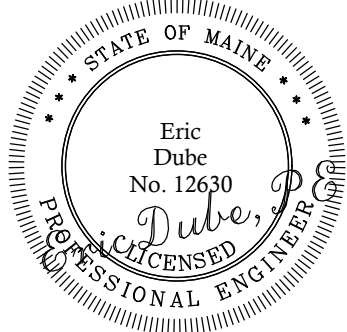
SCALE: 1/8"=1'-0"

- NOTES:
- SEE SHEET S3.0 FOR TYPICAL SLAB-ON-GRADE DETAIL
  - REFERENCE T/SLAB ELEVATION = 494'-2 1/2"



GRAPHIC SCALE

1/8 inch = 1 ft.



STATE OF MAINE DOT  
 Sherman Truck Storage Garage  
 12 Ordway Drive, Sherman, Maine  
 WIN 025240.00

**TRILLIUM**  
 ENGINEERING GROUP  
 189 MAIN STREET SUITE 200  
 YARMOUTH, ME 04096

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**BENNETT**  
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 (207) 865-9425

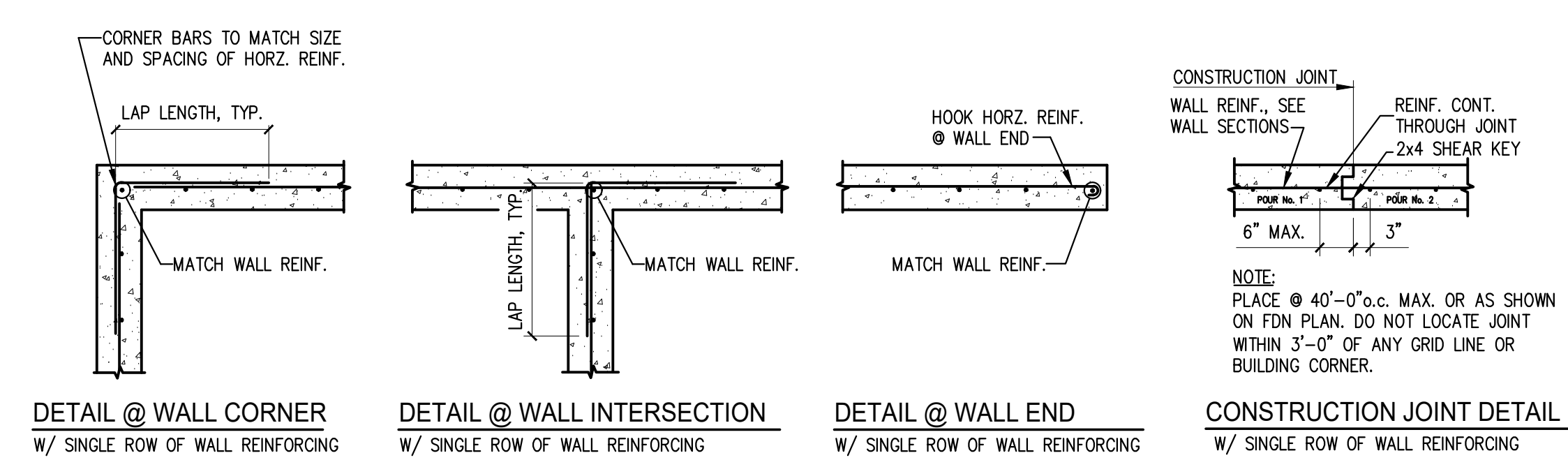
| DESIGN/DETAILED | CHECKED/REVIEWED | ME- | PE NUMBER | DATE |
|-----------------|------------------|-----|-----------|------|
|                 |                  |     |           |      |
| REVISION 1      |                  |     |           |      |
| REVISION 2      |                  |     |           |      |
| REVISION 3      |                  |     |           |      |
| FIELD CHANGES   |                  |     |           |      |

MDOT SHERMAN

FOUNDATION PLAN

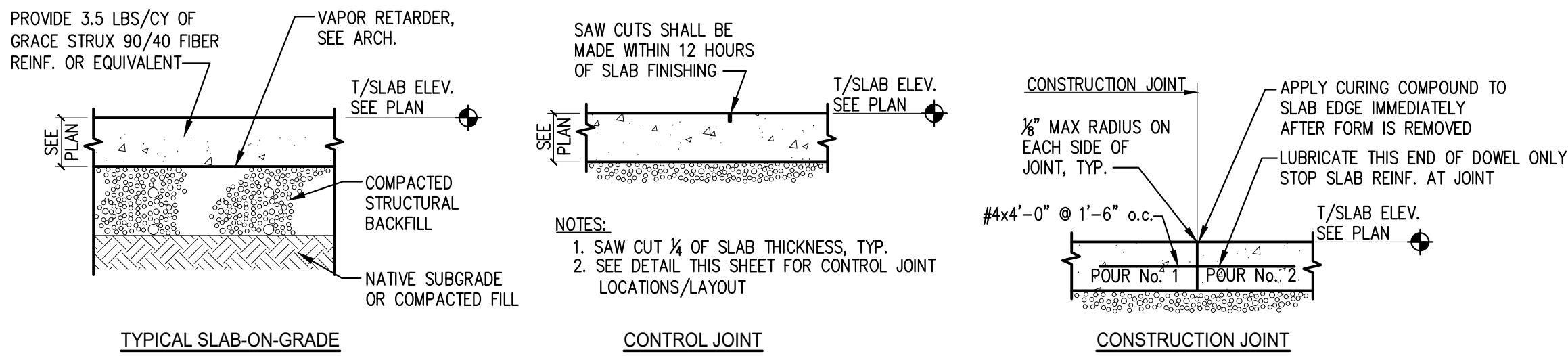
SHEET NUMBER

S2.0



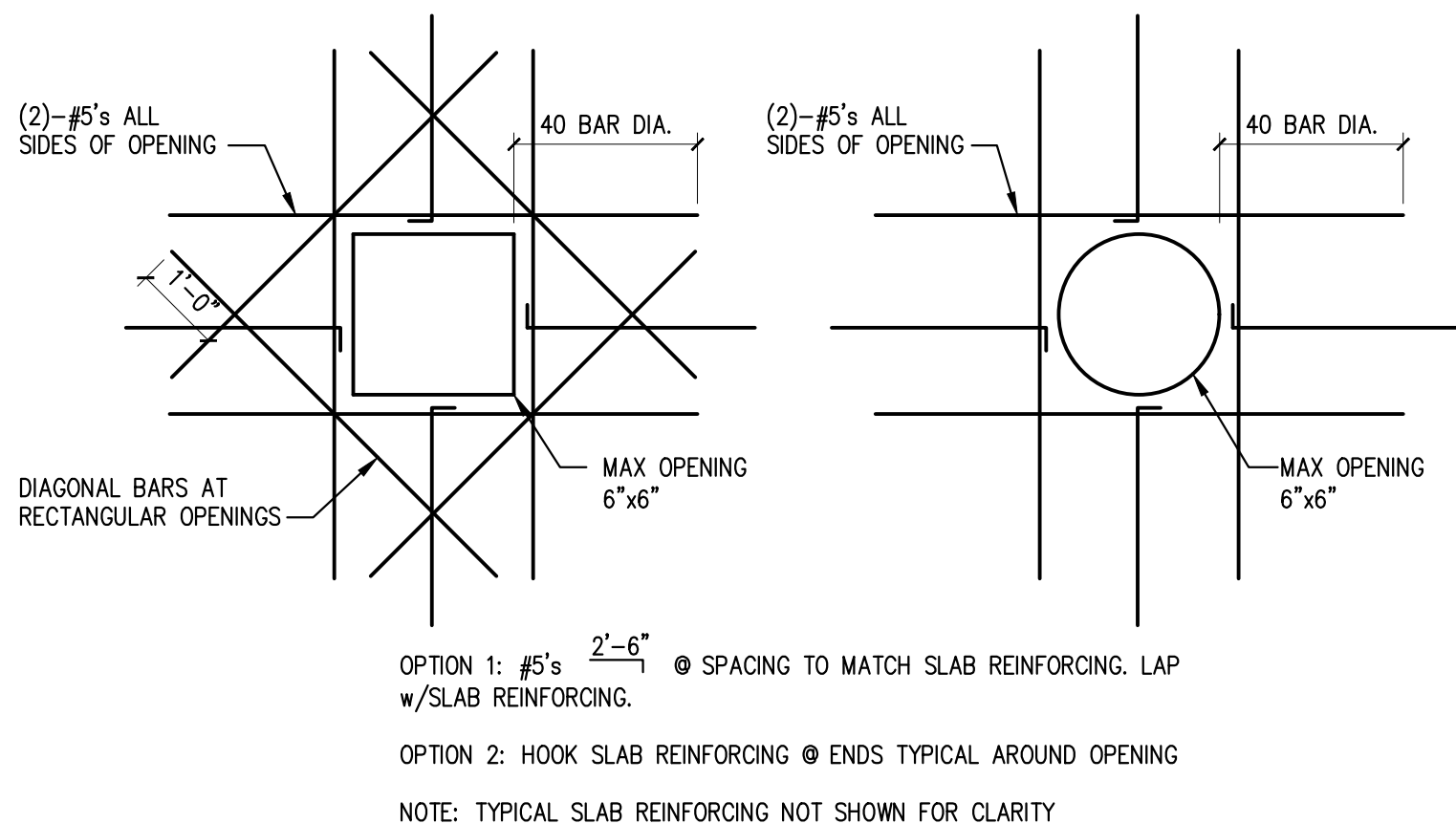
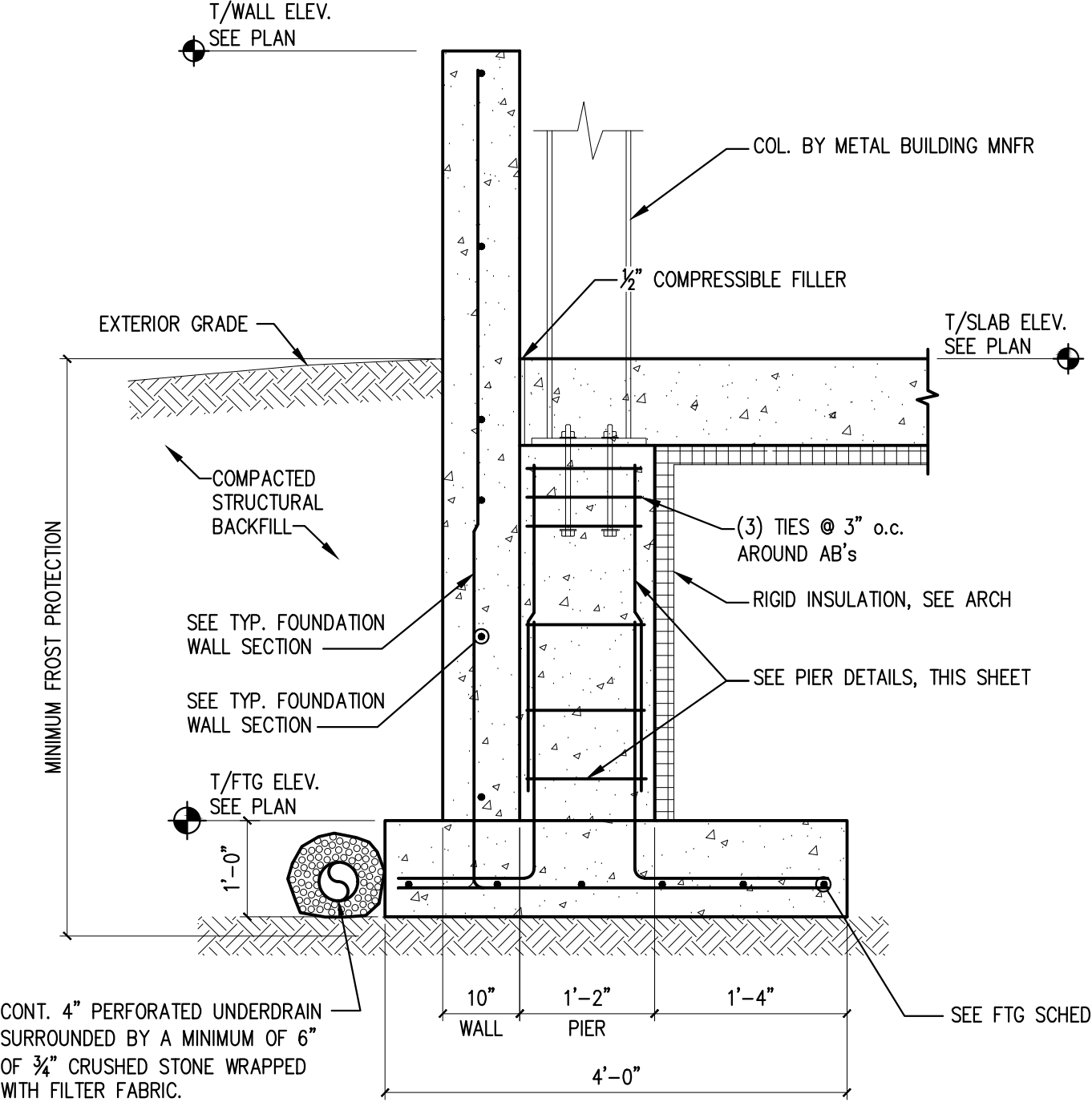
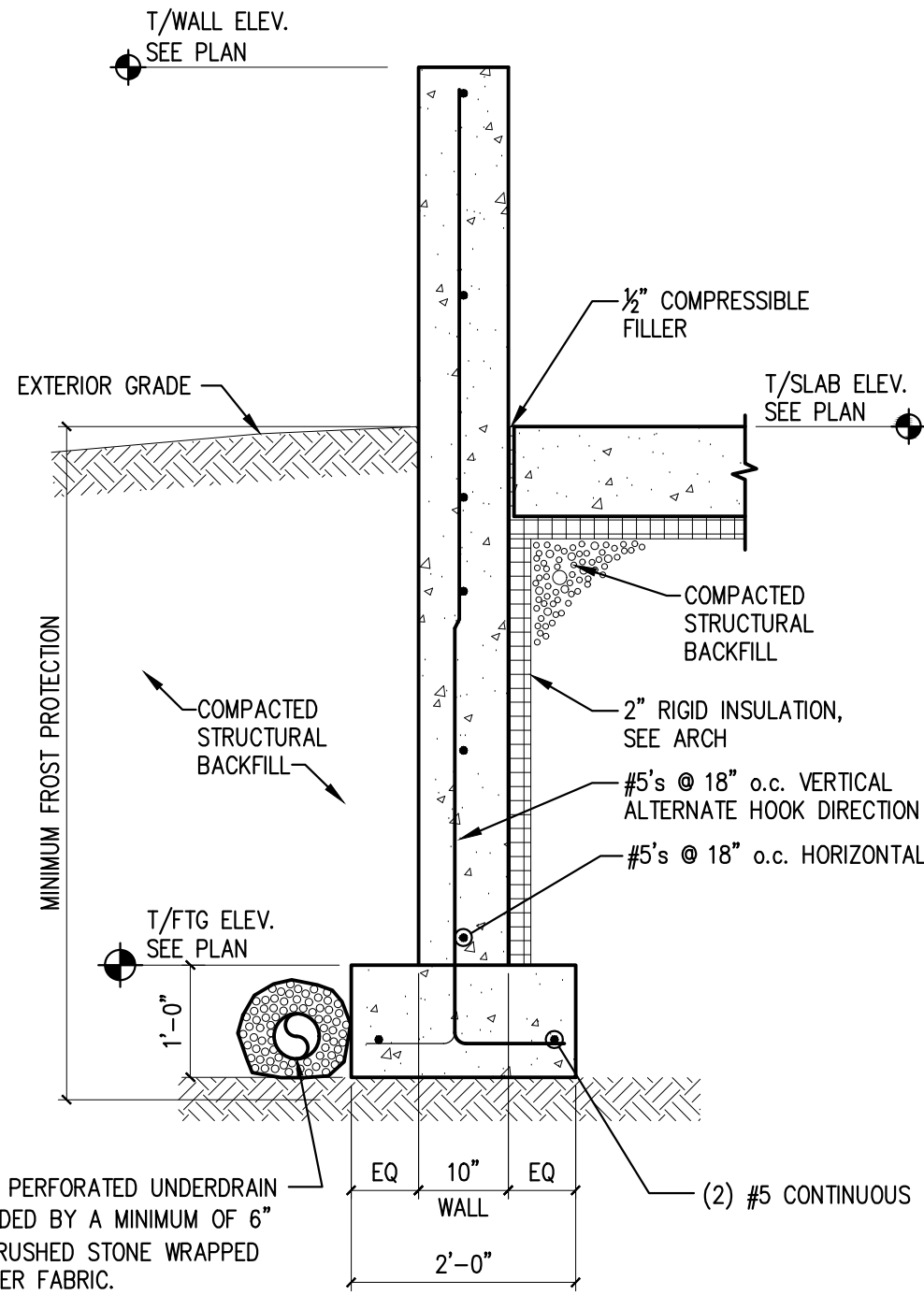
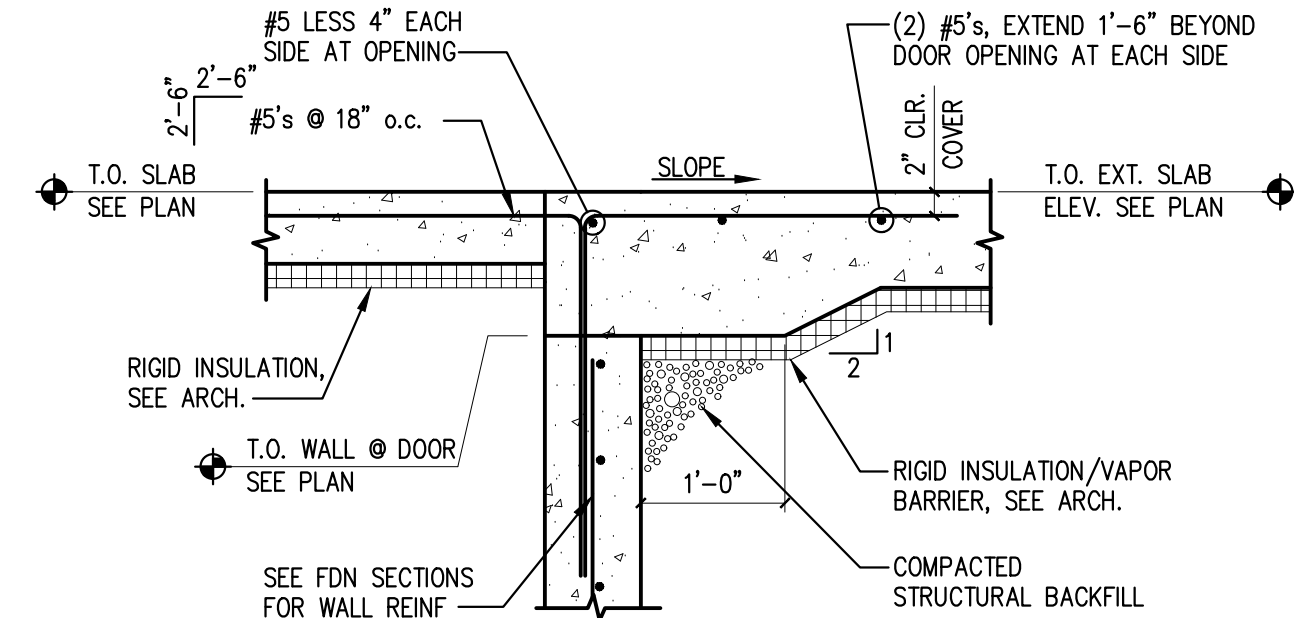
TYP. FOUNDATION WALL DETAILS

SCALE: NTS



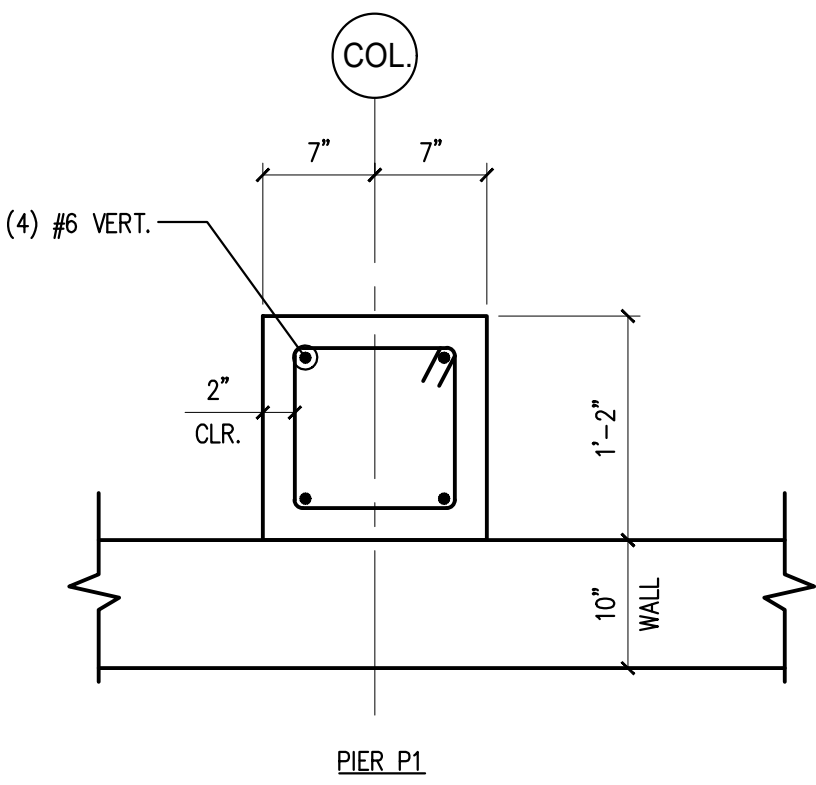
TYP. SLAB-ON-GRADE DETAIL

SCALE: NTS

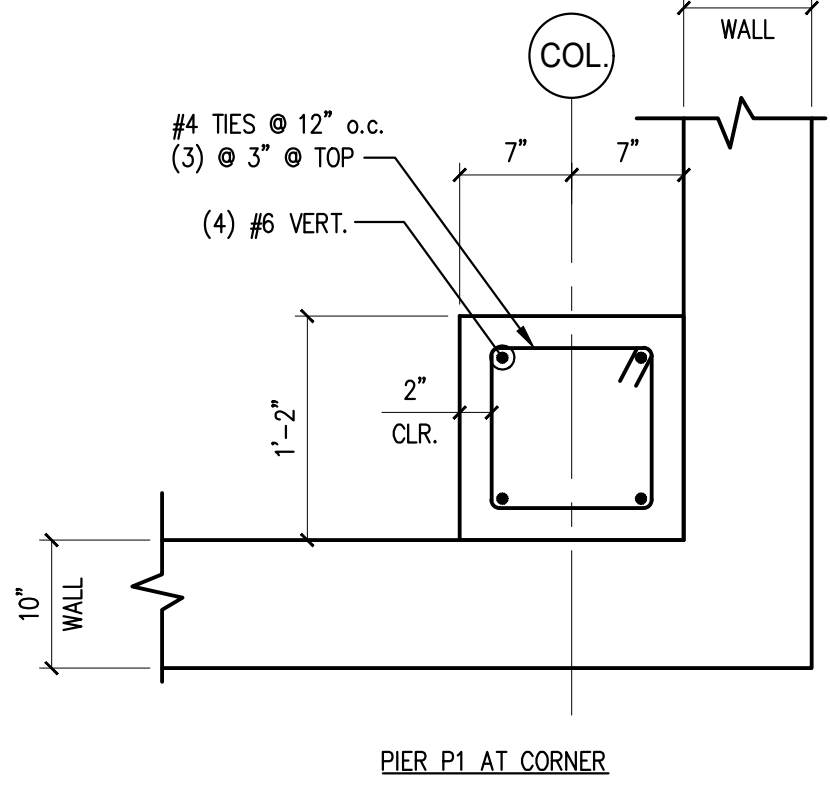


TYPICAL OPENING IN WALL OR SLAB DETAIL

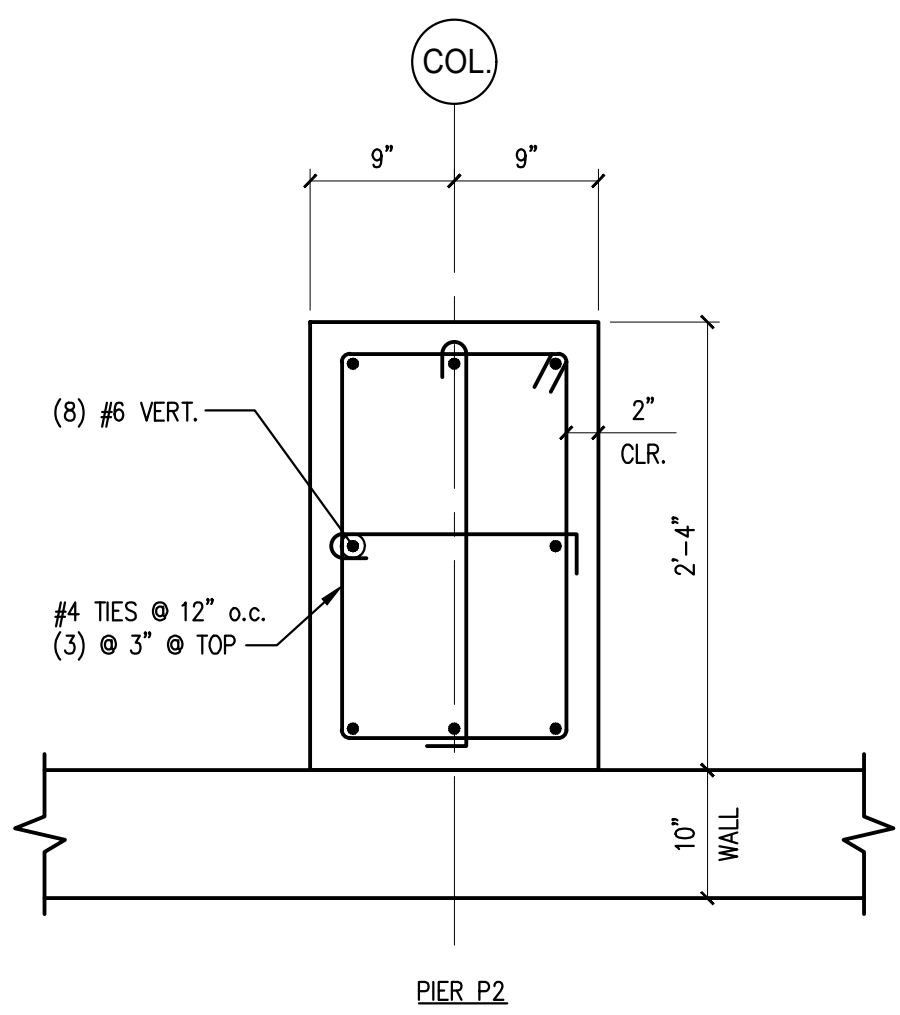
SCALE: NTS



PIER DETAILS



PIER P1 AT CORNER

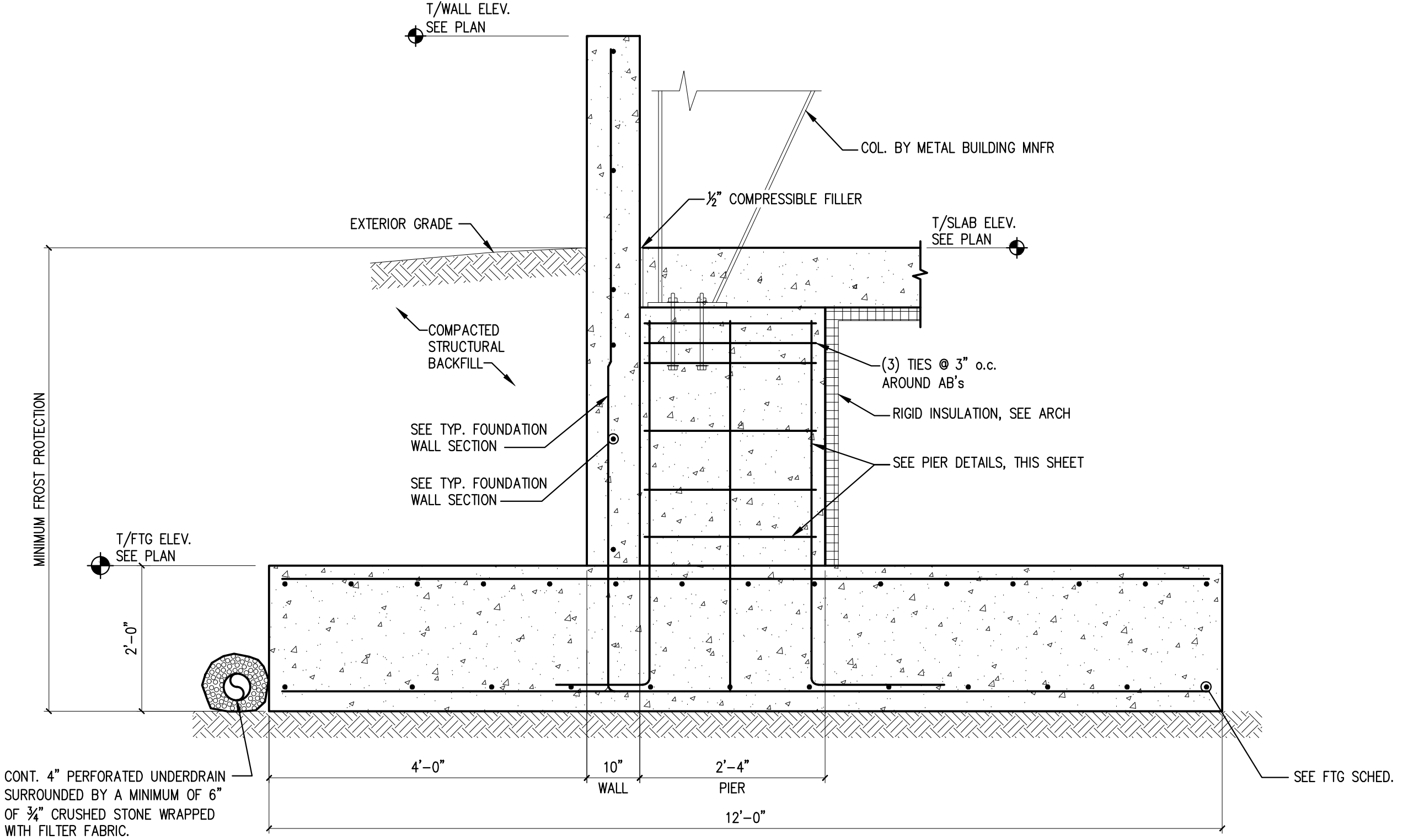


PIER P2

SCALE: 1" = 1'-0"

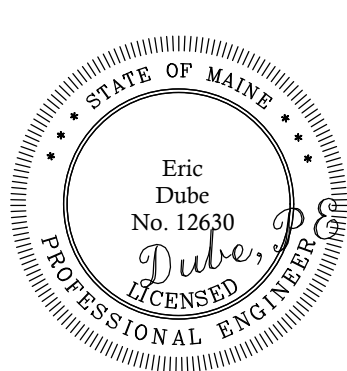
TYP. THROUGH WALL WALL PENETRATION DETAIL

SCALE: NTS



SECTION C S3.0

SCALE: 3/4" = 1'-0"



|                 |                                                                                                               |                                 |            |               |
|-----------------|---------------------------------------------------------------------------------------------------------------|---------------------------------|------------|---------------|
| PREPARED FOR:   | STATE OF MAINE DOT                                                                                            |                                 |            |               |
|                 | Sherman Truck Storage Garage<br>12 Ordway Drive, Sherman, Maine<br>WIN 02524-000                              |                                 |            |               |
| PROJECT:        | TRILLIUM ENGINEERING GROUP<br>189 MAIN STREET SUITE 200<br>YARMOUTH, ME 04096                                 |                                 |            |               |
|                 | David Matero<br>Architecture<br>49 Centre Street<br>Bath, Maine 04530<br>207.389.4278<br>info@davidmatero.com |                                 |            |               |
| DESIGNED BY:    | BENNETT ENGINEERING<br>MECHANICAL - ELECTRICAL<br>(207) 865-9475                                              |                                 |            |               |
|                 |                                                                                                               |                                 |            |               |
| DATE            | ME                                                                                                            | PE NUMBER                       | 2021117    | DATE          |
| BY              |                                                                                                               |                                 |            |               |
| DESIGN-DETAILED | CHECKED-REVIEWED                                                                                              | REVISION 1                      | REVISION 2 | REVISION 3    |
|                 |                                                                                                               |                                 |            | FIELD CHANGES |
| MDOT SHERMAN    |                                                                                                               | FOUNDATION DETAILS AND SECTIONS |            |               |
| SHEET NUMBER    |                                                                                                               | S3.0                            |            |               |



### GAS-FIRED UNIT HEATER PERFORMANCE SCHEDULE

| TAG   | INPUT (MBH) | OUTPUT (MBH) | THERMAL EFF. % | AIRFLOW (CFM) | VELOCITY (FFM) | MTG. HT. (FEET) | ELECTRICAL REQUIREMENTS |     |      |          |         |             | BASIS OF DESIGN REZNOR |  |  |
|-------|-------------|--------------|----------------|---------------|----------------|-----------------|-------------------------|-----|------|----------|---------|-------------|------------------------|--|--|
|       |             |              |                |               |                |                 | HP                      | FLA | MOCF | V/PH/Hz  | SERVICE | ARRANGEMENT | MODEL                  |  |  |
| GUH-1 | 300         | 249          | 83             | 3843          | 802            | 14              | 1/2                     | 110 | 20   | 120/1/60 | GARAGE  | HORIZONTAL  | UDAS-300               |  |  |
| GUH-2 | 250         | 207          | 83             | 3202          | 911            | 14              | 1/2                     | 110 | 20   | 120/1/60 | GARAGE  | HORIZONTAL  | UDAS-300               |  |  |
| GUH-3 | 250         | 207          | 83             | 3202          | 911            | 14              | 1/4                     | 7.5 | 15   | 120/1/60 | GARAGE  | HORIZONTAL  | UDAS-250               |  |  |
| GUH-4 | 250         | 207          | 83             | 3202          | 911            | 14              | 1/4                     | 7.5 | 15   | 120/1/60 | GARAGE  | HORIZONTAL  | UDAS-250               |  |  |

### PRESSURE TANK PERFORMANCE SCHEDULE

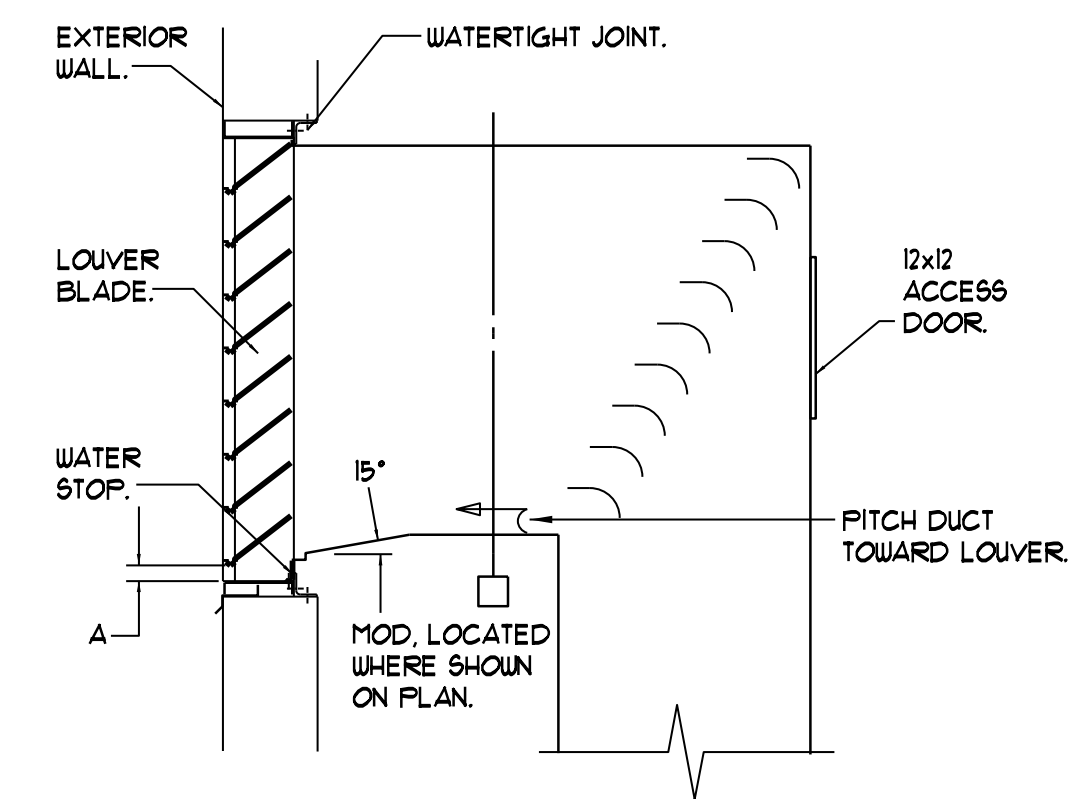
| TAG  | TANK VOLUME (GAL.) | ACCEPTANCE VOLUME (GAL.) | MINIMUM DRAWDOWN (GAL. @ 60/40) | MAX. WORK'G. TEMPERATURE (DEG F) | MAX. WORK'G. PRESSURE (PSI) | WEIGHT (LBS) | BASIS OF DESIGN - AMTROL |           |         |
|------|--------------------|--------------------------|---------------------------------|----------------------------------|-----------------------------|--------------|--------------------------|-----------|---------|
|      |                    |                          |                                 |                                  |                             |              | MOUNTING                 | SERVICE   | MODEL   |
| PT-1 | 158                | 158                      | 36                              | 240                              | 150                         | 581          | FLOOR                    | DOM WATER | UX-45IC |

### PADDLE FAN PERFORMANCE SCHEDULE

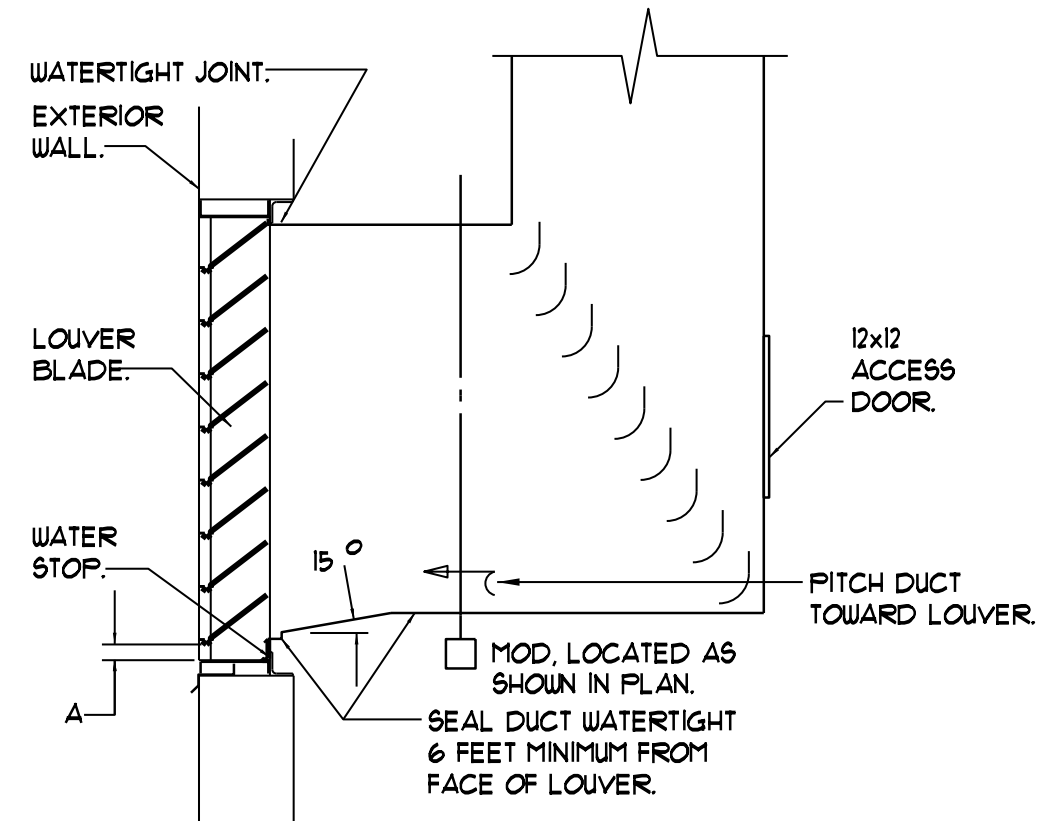
| TAG  | AIRFLOW (CFM) | RPM | QTY BLADES 4 DIA (IN) | ELECTRICAL REQUIREMENTS |      |          | BASIS OF DESIGN - BIG ASS FANS |        |         |
|------|---------------|-----|-----------------------|-------------------------|------|----------|--------------------------------|--------|---------|
|      |               |     |                       | HP                      | AMPS | V/PH/Hz  | SERVICE                        | WEIGHT | MODEL   |
| PF-1 | -             | 135 | 6, 12 FT              | 15                      | 25   | 240/1/60 | GARAGE                         | 185    | BASIC 6 |

### LOUVER PERFORMANCE SCHEDULE

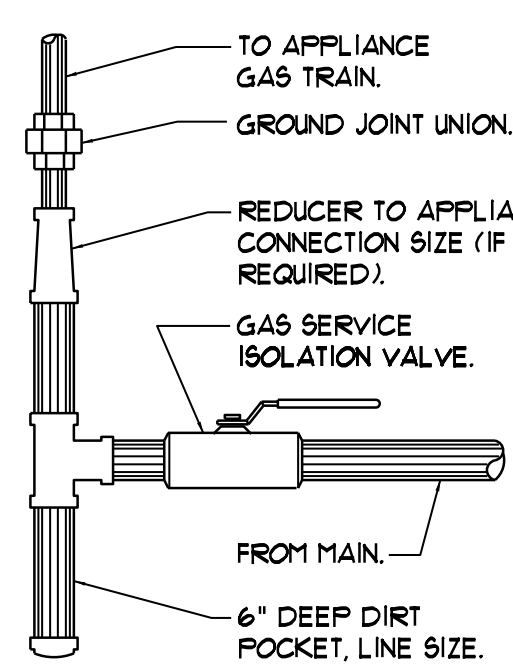
| TAG | AIR FLOW (CFM) | SP LOSS (INWG) | AIR VEL. (FFM) | SIZE (INCHES) (W x H) | FREE AREA (SQFT) | DRAINABLE (Y) OR (N) | BLADE ANGLE 4 FRAME DEPTH | BASIS OF DESIGN - RUSKIN |           |
|-----|----------------|----------------|----------------|-----------------------|------------------|----------------------|---------------------------|--------------------------|-----------|
|     |                |                |                |                       |                  |                      |                           | SERVICE                  | MODEL     |
| L-1 | 450            | 0.03           | 448            | 18x18                 | 100              | Y                    | 37-1/2°, 6"               | EF-1 MAKEUP              | ELF63T5DX |
| L-2 | 6300           | 0.08           | 634            | 48x48                 | 908              | Y                    | 37-1/2°, 6"               | EF-2 MAKEUP              | ELF63T5DX |
| L-3 | 450            | 0.03           | 448            | 18x18                 | 100              | Y                    | 37-1/2°, 6"               | EF-1 EXHAUST             | ELF63T5DX |
| L-4 | 6300           | 0.08           | 634            | 48x48                 | 908              | Y                    | 37-1/2°, 6"               | EF-2 EXHAUST             | ELF63T5DX |



**LOUVER DETAIL WITH DUCT FROM BELOW**  
NTS

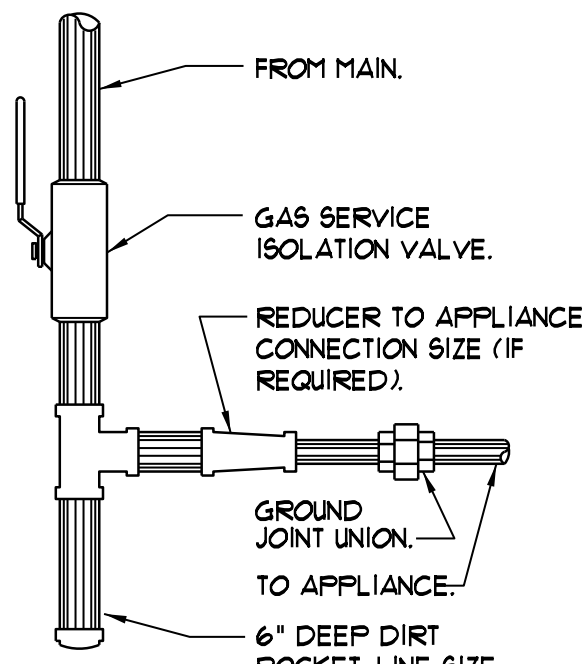


**LOUVER DETAIL WITH DUCT FROM ABOVE**  
NTS



**UPFEED GAS PIPING CONNECTION DETAIL**  
NTS

NOTE: APPLIANCES WITH REGULATORS LOCATE PIPING SHOWN HEREIN UPSTREAM OF THE APPLIANCE REGULATOR. PROVIDE A TEST PLUG DOWNSTREAM OF THE APPLIANCE REGULATOR.

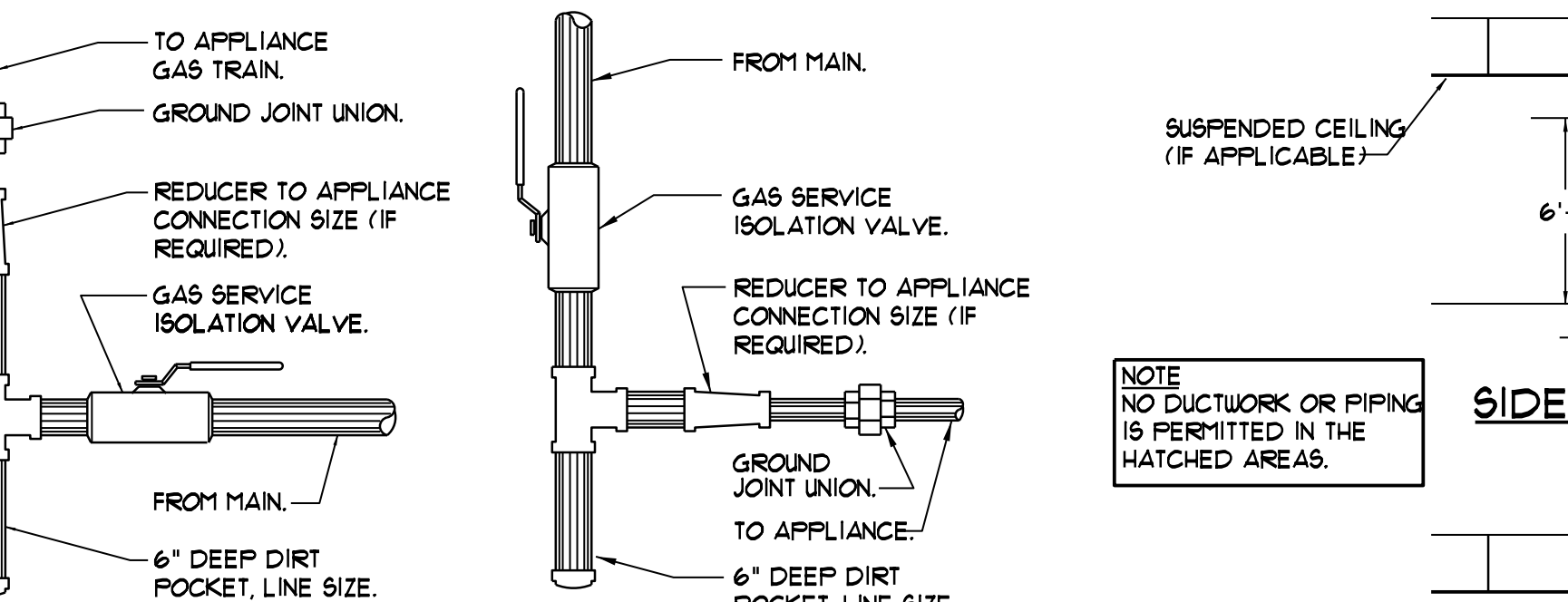


**DOWNFEED GAS PIPING CONNECTION DETAIL**  
NTS

NOTE: APPLIANCES WITH REGULATORS LOCATE PIPING SHOWN HEREIN UPSTREAM OF THE APPLIANCE REGULATOR. PROVIDE A TEST PLUG DOWNSTREAM OF THE APPLIANCE REGULATOR.

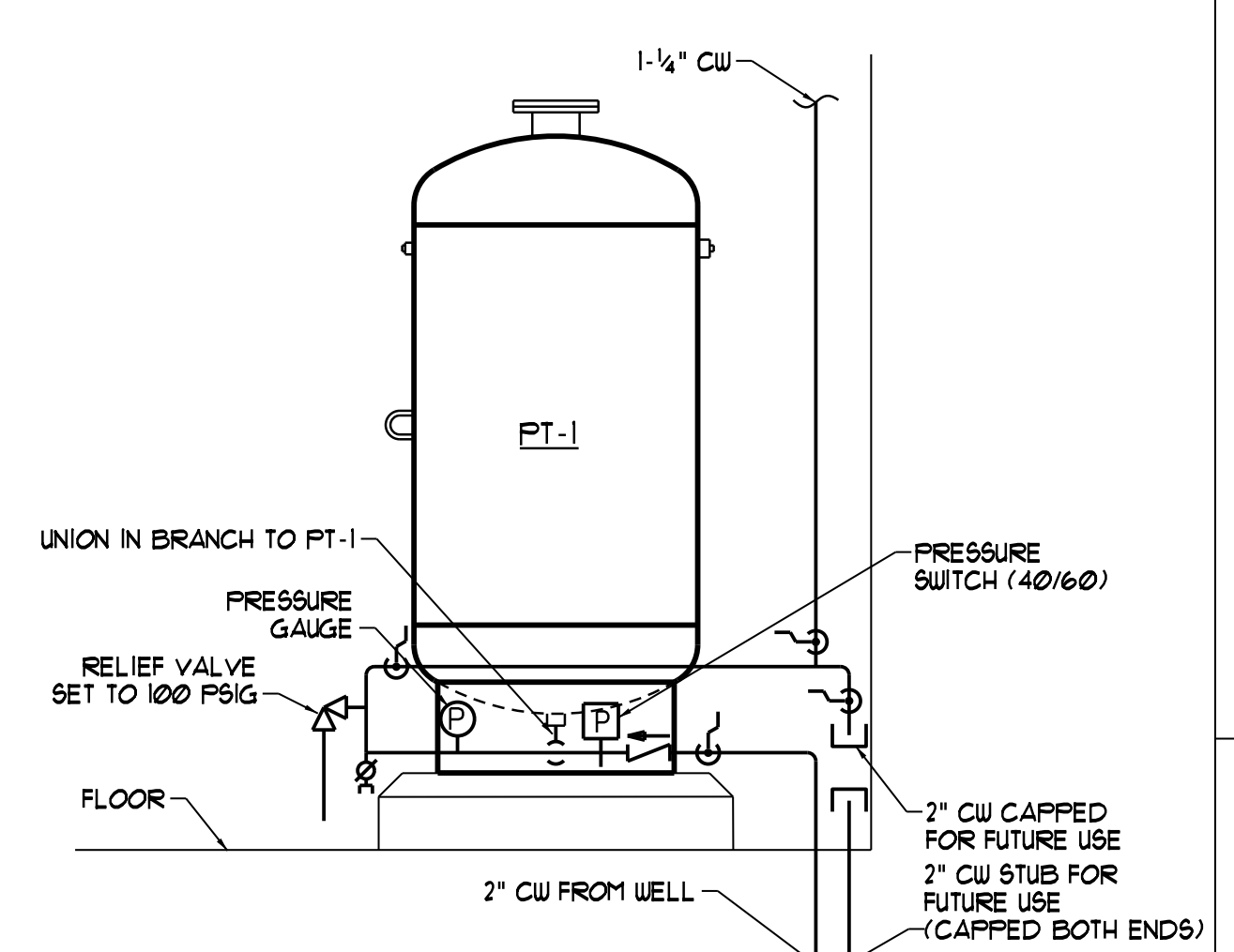
### LOW PRESSURE DUCT CONSTRUCTION DETAILS - TYPICAL

NTS



**LOW PRESSURE DUCT CONSTRUCTION DETAILS - TYPICAL**  
NTS

NOTE: APPLIANCES WITH REGULATORS LOCATE PIPING SHOWN HEREIN UPSTREAM OF THE APPLIANCE REGULATOR. PROVIDE A TEST PLUG DOWNSTREAM OF THE APPLIANCE REGULATOR.



**WATER ENTRANCE DETAIL**  
NTS

NTS

CA TO SYSTEM

FILTER/DRYER

REGULATOR

CHARCOAL FILTER

RELOCATED COMPRESSOR

FLOOR

**COMPRESSOR PIPING DETAIL**  
NTS

NTS

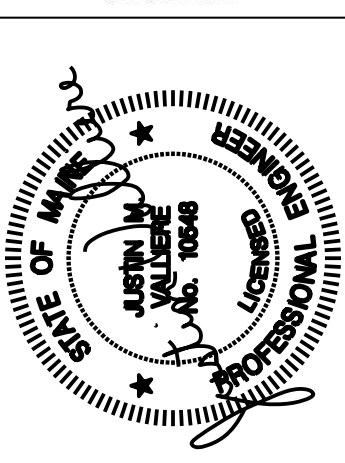
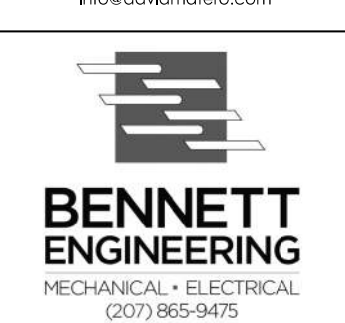
### MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

| SYMBOL | DESCRIPTION                         | SYMBOL | DESCRIPTION                          | SYMBOL | DESCRIPTION                     | ABBREVIATION | DESCRIPTION                     | ABBREVIATION | DESCRIPTION                        | ABBREVIATION | DESCRIPTION                       | ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION |
|--------|-------------------------------------|--------|--------------------------------------|--------|---------------------------------|--------------|---------------------------------|--------------|------------------------------------|--------------|-----------------------------------|--------------|-------------|--------------|-------------|
| CA     | COMPRESSED AIR PIPING (CA)          | 1/2 G  | TSTAT OR SENSOR W/ TAMPERPROOF GUARD | B-*    | BOILER TAG                      | EUB          | ENTERING WET BULB               | LB           | POUNDS                             | RPZ          | REDUCED PRESSURE ZONE             |              |             |              |             |
| C      | CONDENSATE DRAIN PIPING (C)         | 1/4" G | MANUAL AIR VENT                      | BD-*   | BYPASS DAMPER TAG               | EUM-*        | ELECTRIC WATER HEATER TAG       | LD-*         | LINEAR DIFFUSER TAG                | RR-*         | RETURN REGISTER TAG               |              |             |              |             |
| CUR    | CHILLED WATER RETURN PIPING (CUR)   | 2      | NOTE TAG (NUMBER)                    | BFP-*  | BACKFLOW PREVENTER TAG          | EUT          | ENTERING WATER TEMPERATURE      | LT-HUS/R     | LOW TEMPERATURE HOT WATER          | RTU          | ROOM TEMPERATURE SENSOR           |              |             |              |             |
| CUS    | CHILLED WATER SUPPLY PIPING (CUS)   | 2/250  | AIR DEVICE TAG (LETTER) WITH CFM     | BHP    | BRAKE HORSEPOWER                | EXG          | EXISTING                        | LRA          | LOCKED ROTOR AMPS                  | RV           | RELIEF VALVE                      |              |             |              |             |
| FOR    | FUEL OIL RETURN PIPING (FOR)        | 100    | ROOM NUMBER                          | BTUH   | BRITISH THERMAL UNITS PER HOUR  | EXH          | EXHAUST                         | LUOCO        | LOW WATER CUTOFF                   | RUL          | RAINWATER LEADER                  |              |             |              |             |
| FOS    | FUEL OIL SUPPLY PIPING (FOS)        | 100    | TURNING VANES                        | CBD    | COUNTER BALANCED DAMPER         | FC           | FLEXIBLE CONNECTION             | LUT          | LEAVING WATER TEMPERATURE          | SA           | SUPPLY AIR                        |              |             |              |             |
| G      | GAS PIPING (G)                      | 100    | DUCT W/MANUAL DAMPER                 | CC-*   | COOLING COIL TAG                | FCO          | FLOOR CLEANOUT                  | MAX          | MAXIMUM                            | SAN          | SANITARY (DRAIN 4 WASTE)          |              |             |              |             |
| HUR    | HOT WATER RETURN PIPING (HUR)       | 100    | DUCT W/FLEXIBLE CONNECTION (FC)      | CFM    | CUBIC FEET PER MINUTE           | FD           | FIRE DAMPER                     | MBH          | THOUSANDS OF BTU PER HOUR          | SD           | SNOKE DAMPER                      |              |             |              |             |
| HUS    | HOT WATER SUPPLY PIPING (HUS)       | 100    | LAGGED DUCT                          | CHLR-* | CHILLER TAG                     | FD-*         | FLOOR DRAIN TAG                 | MCA          | MINIMUM CIRCUIT AMPACITY           | SEER         | SEASONAL ENERGY EFFICIENCY RATIO  |              |             |              |             |
| RL     | REFRIGERANT LIQUID PIPING (RL)      | 100    | DUCT W/ACOUSTIC LINING               | CO     | CLEANOUT                        | FLA          | FULL LOAD AMPS                  | MIN          | MINIMUM                            | SF           | SUPPLY FAN                        |              |             |              |             |
| RG     | REFRIGERANT GAS PIPING (RG)         | 100    | DUCT W/SQUARE-TO-ROUND TRANSITION    | CUH-*  | CABINET UNIT HEATER TAG         | FOR          | FUEL OIL RETURN                 | NC           | NOISE CRITERION                    | SP           | STATIC PRESSURE                   |              |             |              |             |
| -----  | SANITARY PIPING BELOW FLOOR (SAN)   | 100    | FLEXIBLE DUCT                        | CP-*   | CIRCULATING PUMP TAG            | FOS          | FUEL OIL SUPPLY                 | NIC          | NOT IN CONTRACT                    | SP-*         | SUMP PUMP TAG                     |              |             |              |             |
| -----  | SANITARY PIPING ABOVE FLOOR (SAN)   | 100    | MOTOR OPERATED DAMPER                | CT-*   | COOLING TOWER TAG               | FPHB         | FROST PROOF HOSE BIBB           | NTS          | NOT TO SCALE                       | SR-*         | SUPPLY REGISTER TAG               |              |             |              |             |
| -----  | SANITARY VENT PIPING                | 100    | AIRFLOW OUT                          | Cv     | VALVE COEFFICIENT               | FFM          | FEET PER MINUTE                 | OA           | OUTSIDE AIR                        | SQFT         | SQUARE FEET                       |              |             |              |             |
| -----  | RAINWATER LEADER ABOVE SLAB (RUL)   | 100    | AIRFLOW IN                           | CW     | COLD WATER                      | FS-*         | FLOOR SINK TAG                  | OBD          | OPPOSED BLADE DAMPER               | ΔT           | TEMPERATURE DIFFERENTIAL          |              |             |              |             |
| -----  | COLD WATER PIPING (CW)              | 100    | DIAMETER OR FLAT OVAL                | CHUS/R | CHILLED WATER SUPPLY AND RETURN | FT           | FEET                            | OD           | OUTSIDE DIAMETER                   | TEMP.        | TEMPERATURE                       |              |             |              |             |
| -----  | HOT WATER PIPING (HW)               | 100    | FIRE DAMPER                          | DB     | DRY BULB                        | FTR-*        | FINTUBE RADIATION TAG           | OED          | OPEN ENDED DUCT                    | TCP          | TEMPERATURE CONTROL PANEL         |              |             |              |             |
| -----  | RECIRCULATED HOT WATER PIPING (RHW) | 100    | ROUND OR FLAT OVAL DUCT DOWN         | dB RE  | DECIBELS RELATIVE TO            | GA           | GAGE                            | OFRL         | OVERFLOW RAINWATER LEADER          | TMV-*        | THERMOSTATIC MIXING VALVE TAG     |              |             |              |             |
| -----  | PIPE CAP                            | 100    | ROUND OR FLAT OVAL DUCT UP           | DC     | DOUBLE CHECK                    | GAL          | GALLONS                         | OFUH-*       | OIL FIRED WATER HEATER TAG         | TSP          | TOTAL STATIC PRESSURE             |              |             |              |             |
| -----  | DIRECTION OF FLUID FLOW             | 100    | SUPPLY DIFFUSER                      | DCA    | DOUBLE CHECK ATMOSPHERIC        | GUH-*        | GAS FIRED WATER HEATER TAG      | OFRD         | OVERFLOW ROOF DRAIN                | TYP          | TYPICAL                           |              |             |              |             |
| -----  | ELBOW UP                            | 100    | STEAM TRAP                           | DEG F  | DEGREES FAHRENHEIT              | GUH-*        | GALLONS PER HOUR                | OPD          | OVERCURRENT PROTECTIVE DEVICE      | UH-*         | UNIT HEATER TAG                   |              |             |              |             |
| -----  | ELBOW DOWN                          | 100    | WATER HAMMER ARRESTOR                | DIA    | DIAMETER                        | HC-*         | GALLONS PER MINUTE              | P-*          | PLUMBING FIXTURE TAG               | UNO          | UNLESS NOTED OTHERWISE            |              |             |              |             |
| -----  | PIPE TEE UP                         | 100    | RETURN GRILLE                        | DIW    | DOWN IN WALL                    | HP           | GAS UNIT HEATER TAG             | PENETN       | PENETRATION                        | VAV-*        | VARIABLE AIR VOLUME BOX TAG       |              |             |              |             |
| -----  | PIPE TEE DOWN                       | 100    | CARTRIDGE TYPE INLINE PUMP           | DN     | DOWN                            | HRV-*        | HEATING COIL TAG                | FF-*         | PADDLE FAN TAG                     | VB           | VACUUM BREAKER                    |              |             |              |             |
| -----  | PIPE REDUCER                        | 100    | VERTICAL INLINE PUMP                 | EA     | ENTERING AIR TEMPERATURE        | HU           | HOT WATER                       | PSIA         | POUNDS PER SQUARE INCH ABSOLUTE    | VFD          | VARIABLE FREQUENCY INVERTER DRIVE |              |             |              |             |
| -----  | PIPE WITH GUIDE                     | 100    | FLEXIBLE PIPE CONNECTION (FC)        | EDB    | ENTERING DRY BULB               | HUS/R        | HEAT RECOVERY VENTILATOR TAG    | PSIG         | POUNDS PER SQUARE INCH GAGE        | VTR          | VENT THRU ROOF                    |              |             |              |             |
| -----  | PIPE WITH ANCHOR                    | 100    | PITCH DOWN                           | EDC-*  | ELECTRIC DUCT COIL TAG          | I-B-R        | HOT WATER SUPPLY AND RETURN     | PVC          | POLYVINYL CHLORIDE (PIPE)          | WA           | WALL CLEANOUT                     |              |             |              |             |
| -----  | BUTTERFLY VALVE                     | 100    | PETCOCK                              | EF     | ENERGY EFFICIENCY RATIO         | IFUH-*       | INDIRECT FIRED WATER HEATER TAG | RA           | RETURN AIR                         | WD           | WATER GAGE                        |              |             |              |             |
| -----  | OS 4 Y GATE VALVE                   | 100    | FLOW METER                           | EFF    | EFFICIENCY                      | IN           | INCHES                          | RD           | ROOF DRAIN                         | WGA          | WATER PRESSURE DROP               |              |             |              |             |
| -----  | BACKFLOW PREVENTER (BFP)            | 100    | PRESSURE GAGE WITH GAGE COCK         | EG-*   | EXHAUST FAN TAG                 | IV-*         | INTAKE VENT TAG                 | RDE          | RECOMMENDED DUAL ELEMENT FUSE AMPS | WTD          | WIRE SIZING AMPS                  |              |             |              |             |
| -----  | CHECK VALVE                         | 100    | THERMOMETER IN WELL                  | ER-*   | EXHAUST GRILLE TAG              | L-*          | LOUVER TAG                      | RFM          | RADIANT FLOOR MANIFOLD TAG         | W            | WATER TEMPERATURE DROP            |              |             |              |             |
| -----  | BALANCING VALVE (ADJUSTABLE)        | 100    | WATER FLOW SWITCH                    | ESP    | EXTERNAL STATIC PRESSURE        | LAT          | LEAVING AIR TEMPERATURE         | RFS          | RECIRCULATED HOT WATER             | ZD-*         | ZONE DAMPER TAG                   |              |             |              |             |
| -----  | AUTOMATIC FLOW CONTROL VALVE        | 100    | DUCT MOUNTED SMOKE DETECTOR          | ET-*   | EXPANSION TANK TAG              |              |                                 |              |                                    |              |                                   |              |             |              |             |
| -----  | RELIEF VALVE (RV)                   | 100    | ROOM TEMPERATURE SENSOR              |        |                                 |              |                                 |              |                                    |              |                                   |              |             |              |             |
| -----  |                                     | 100    | THERMOSTAT OR SENSOR ON WALL         |        |                                 |              |                                 |              |                                    |              |                                   |              |             |              |             |



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2021.11.18  
DATE

BY: JMV  
DESIGN-DETAILED  
CHECKED-REVIEWED  
REVISION 1  
REVISION 2  
REVISION 3  
FIELD CHANGES

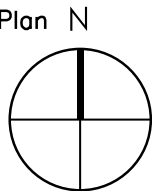
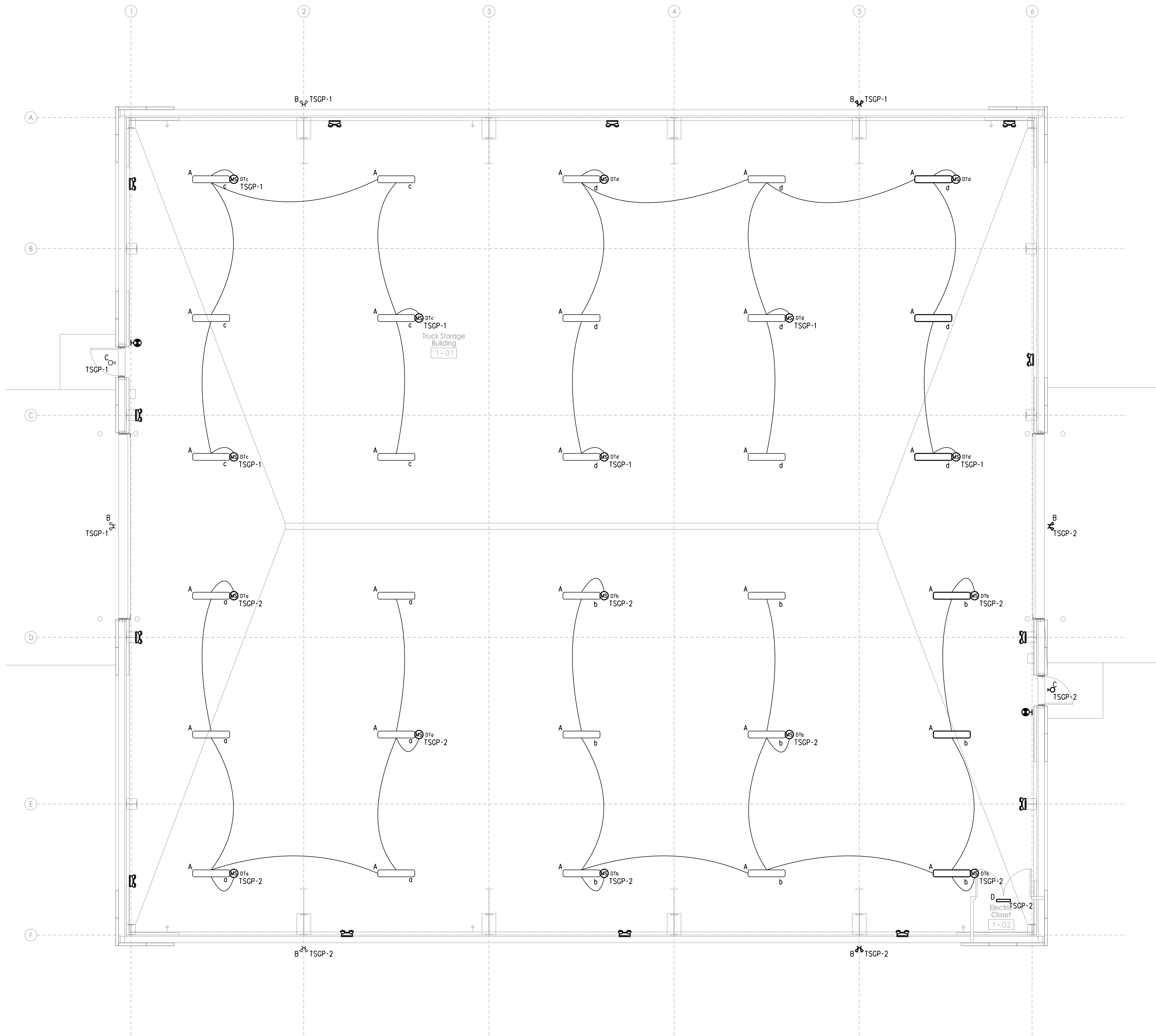
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MECHANICAL SCHEDULES,  
DETAILS AND LEGEND

SHEET NUMBER

M2.1

STATE OF MAINE DOT  
Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00



LIGHTING PLAN  
SCALE: 3/16" = 1'-0"

PREPARED FOR:

STATE OF MAINE DOT  
Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00

TRILLIUM  
ENGINEERING GROUP

189 MAIN STREET SUITE 200  
YARMOUTH, ME 04096

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STEVEN JONASON  
10/11/2021

STEVEN JONASON  
ME 8468  
PE NUMBER  
2021.11.18  
DATE

DATE

BY

DESIGN-DETAILED

CAT

CHECKED-REVIEWED

SAJ

REVISION 1

REVISION 2

REVISION 3

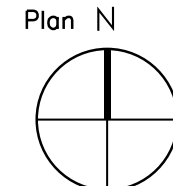
FIELD CHANGES

Lighting Plan

SHEET NUMBER  
E1.1

1. ALL HORIZONTAL CONDUIT RUNS SHALL BE ATTACHED TO GURT OF METAL BUILDING.

- ① CONTRACTOR SHALL COORDINATE EXACT MOUNTING LOCATION WITH OVERHEAD DOOR MANUFACTURER.
- ② NEW FUEL TANKS WILL BE IN THE SAME AREA AS THE EXISTING TANKS. PROVIDE STEEL CONDUITS STUBBED AT TANK ALARM PANEL OUT THROUGH THE FOUNDATION AND BEYOND TO THE FLOORED AREA. PROVIDE 4" STEEL CONDUITS FOR THE NEW DIESEL TANK, (2) 1" STEEL CONDUITS FOR THE FLOOR DRAIN TANK. ALL CONDUCTORS SHALL BE PROVIDED BY TANK MANUFACTURER. COORDINATE EXACT LOCATION WITH TANK SYSTEM VENDOR AND CIVIL PRIOR TO ROUGH-IN.
- ③ CONTRACTOR SHALL PROVIDE 4X8 PLYWOOD BOARD, PAINTED BLUE, TO MOUNT FUEL TANK SYSTEM CONTROLS AND ALARM EQUIPMENT.
- ④ CONTRACTOR SHALL PROVIDE 3" C WITH PULL STRINGS ONLY STUBBED UP AND CAPPED FOR FUTURE CREW QUARTERS BUILDING. COORDINATE WITH CIVIL PRIOR TO ROUGH-IN.
- ⑤ CONTRACTOR SHALL PROVIDE 2" C WITH PULL STRINGS ONLY TO 8-1/2"x6-1/2"x6" HANDHOLE LOCATED AT FUTURE CREW QUARTERS BUILDING SITE FOR FUTURE TEL/DATA LINES. COORDINATE WITH CIVIL PRIOR TO COMMENCEMENT OF WORK.

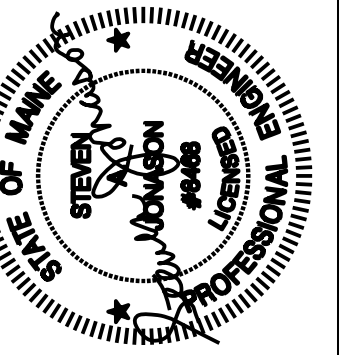


STATE OF MAINE DOT  
Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00



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|                  |  |     |      |                |
|------------------|--|-----|------|----------------|
|                  |  | BY  | DATE | STEVEN JONASON |
| DESIGN-DETAILED  |  | CAT |      |                |
| CHECKED-REVIEWED |  | SAJ |      | ME 8468        |
|                  |  |     |      | PE NUMBER      |
| REVISION 1       |  |     |      |                |
| REVISION 2       |  |     |      | 2021.11.18     |
| REVISION 3       |  |     |      |                |
| FIELD CHANGES    |  |     |      | DATE           |

## Power Plan

SHEET NUMBER

## E2.1

POWER PLAN  
SCALE: 3/16" = 1'-0"

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 MFGR 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 LAMP(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  | AMERICANS 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                               | MIS    | MANAGEMENT INFORMATION SYSTEM                                                                |
| AT   | AMP TRIP                               | 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                                                         |
| C    | CONDUIT                                | NL     | NIGHT LIGHT                                                                                  |
| CB   | CIRCUIT BREAKER                        | NO     | NORMALLY OPEN                                                                                |
| CI   | CAST IRON                              | NO.    | NUMBER                                                                                       |
| CKT  | CIRCUIT                                | OL     | OVERLOAD                                                                                     |
| CL   | CENTERLINE                             | P      | POLE                                                                                         |
| CMP  | CENTRAL MAINE POWER (ELECTRIC UTILITY) | PA     | PUBLIC ADDRESS                                                                               |
| CMU  | CONCRETE MASONRY UNIT                  | PB     | PUSH BUTTON                                                                                  |
| CT   | CURRENT TRANSFORMER                    | PF     | POWER FACTOR                                                                                 |
| CONC | CONCRETE                               | PH     | PHASE                                                                                        |
| CS   | CARBON STEEL                           | PNL    | PANEL                                                                                        |
| CU   | COPPER                                 | TP1-2  | TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED                                       |
| CUH  | CABINET UNIT HEATER                    | PSNH   | PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY)                                           |
| DL   | DAMP LOCATION                          | PT     | POTENTIAL TRANSFORMER                                                                        |
| EC   | ELECTRICAL CONTRACTOR                  | PVC    | POLYVINYL CHLORIDE                                                                           |
| EF   | EXHAUST FAN                            | RL     | ELECTRICAL EQUIPMENT TO BE RELOCATED                                                         |
| ERL  | EXISTING RELOCATE                      | RM     | ELECTRICAL EQUIPMENT TO REMAIN                                                               |
| ERV  | EXISTING REMOVE                        | RSC    | RIGID STEEL CONDUIT                                                                          |
| ETR  | EXISTING TO REMAIN                     | RTU    | ROOF TOP UNIT                                                                                |
| EUH  | ELECTRIC UNIT HEATER                   | RV     | ELECTRICAL EQUIPMENT TO REMOVE                                                               |
| EWC  | ELECTRICAL WATER COOLER                | RVNR   | REDUCED VOLTAGE, NON-REVESING                                                                |
| FACP | FIRE ALARM CONTROL PANEL               | SB     | SMART BOARD                                                                                  |
| FAPS | FIRE ALARM PULL STATION                | SF     | SUPPLY FAN                                                                                   |
| FRP  | FIBER REINFORCED PLASTIC               | SLD    | SINGLE LINE DIAGRAM                                                                          |
| FWNR | FULL VOLTAGE, NON-REVERSING            | SM     | MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT                    |
| FWU  | FURNISHED WITH UNIT                    | SS     | SOLID STATE                                                                                  |
| DC   | DIRECT CURRENT                         | SWBD-1 | SWITCHBOARD NUMBER AS DESIGNATED                                                             |
| GFI  | GROUND FAULT INTERRUPTER               | TC     | TIME CLOCK                                                                                   |
| GND  | GROUND                                 | TS     | TRANSFER SWITCH                                                                              |
| HID  | HIGH INTENSITY DISCHARGE               | T&B    | TOP AND BOTTOM                                                                               |
| HOA  | HAND-OFF-AUTOMATIC                     | TYP    | TYPICAL                                                                                      |
| HP   | HORSEPOWER                             | UG     | UNDERGROUND                                                                                  |
| HPS  | HIGH PRESSURE SODIUM                   | V      | VOLT                                                                                         |
| HZ   | HERTZ                                  | VA     | VOLT-AMPERE                                                                                  |
| ICB  | INSULATED CASE CIRCUIT BREAKER         | VFD    | VARIABLE FREQUENCY DRIVE                                                                     |
| JB   | JUNCTION BOX                           | W      | WATT                                                                                         |
| KAIC | THOUSAND AMP INTERRUPTING CAPACITY     | W/     | WITH                                                                                         |
| KCML | THOUSAND CIRCULAR MIL                  | WP     | WEATHERPROOF                                                                                 |
| KV   | THOUSAND VOLTS                         | XFMR   | TRANSFORMER                                                                                  |
| KVA  | THOUSAND VOLT-AMPS                     | XP     | EXPLOSION PROOF                                                                              |
| KW   | THOUSAND WATTS (KILOWATT)              | 3PH    | THREE PHASE                                                                                  |
| LC   | LIGHTING CONTACTORS                    | 4W     | FOUR WIRE                                                                                    |
| LCP  | LIGHTING CONTROL PANEL                 | 3W     | THREE WIRE                                                                                   |
| LED  | LIGHT EMITTING DIODE                   |        |                                                                                              |
| 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.
- 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.
- QUAD RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- SPECIAL PURPOSE RECEPTACLE FOR EQUIPMENT CONNECTION - COORDINATE LOCATION AND TYPE OF CONNECTION WITH EQUIPMENT BEING SERVED
- 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.
- 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, 250 VOLT, GROUNDING TYPE 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
- HOME RUN TO PANEL, WITH PANEL AND CIRCUIT NUMBER
- BRANCH CIRCUIT WIRING SHALL CONSIST OF (1)1/2"-C-2\*12AWG-1\*12GND UNLESS OTHERWISE NOTED. (•)ASTERISK DENOTED \*10AWG FOR ALL CIRCUITS CONTAINED IN HOME RUN. (••)DOUBLE ASTERISK DENOTES (1)3/4"-C-2\*8AWG-1\*10GND.
- PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE WITH NFPA 70, ARTICLE 250.
- 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
- DOOR CHIME WITH STROBE-ADA COMMUNICATIONS REQUIREMENT
- LIGHTING FIXTURES, CAPITAL LETTERS DENOTE TYPE PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. "ob" INDICATES INBOARD LAMPS CONTROLLED BY OUTBOARD SWITCHED "o" 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
- EMERGENCY LIGHTING BATTERY PACK DUAL-LITE No LM130-12V1-0 SELF-DIAGNOSTIC
- INTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No CPRD 1203L, COLOR BY ARCHITECT
- EXTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No OCRD 1203L COLOR BY ARCHITECT
- EXIT LIGHT FIXTURE, UNSWITCHED, DUAL-LITE LX-U-R-W-E OR APPROVED EQUAL
- EXIT/ EMERGENCY LIGHT COMBO, DUAL-LITE No EVCU-R-D4-1OR APPROVED EQUAL COLOR BY ARCHITECT
- SECURITY CAMERA LOCATION, COORDINATE AND PROVIDE DUPLEX RECEPTACLE, DATA AND CONDUIT PER MANUFACTURERS RECOMMENDATIONS
- CEILING MOUNTED MOTION SENSOR: SENSORS AND RELAYS TO CONTROL CIRCUITS IN SPACES INDICATED. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED.
- DT INDICATES DUAL TECHNOLOGY
- PIR INDICATED PASSIVE INFRARED TECHNOLOGY
- WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- 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.
- SWITCH WITH PILOT LIGHT, SWITCH SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE
- REMOTE RANGE HOOD FAN SWITCH, CONNECT TO HOOD FAN THRU HOOD JUNCTION BOX.
- REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX.
- BURNER SAFETY SWITCH, PROVIDE WITH RED PLATE, MOUNTED 72" AFF
- 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.
- PHOTOCELL
- LIGHTING CONTACTOR
- 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
- 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.
- TELEPHONE BACK BOARD
- 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 STRIKE 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
- SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED.
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. "ER" DENOTES ELEVATOR RECALL
- 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. ELECTRIC 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.
- MAGNETIC DOOR HOLD
- NURSE CALL BASE STATION
- NURSE CALL PULL STATION
- NURSE CALL ANNUNCIATOR LIGHT
- WP DENOTES WEATHERPROOF CONSTRUCTION
- RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
- RM OR ETR DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
- RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

LIGHT FIXTURE SCHEDULE

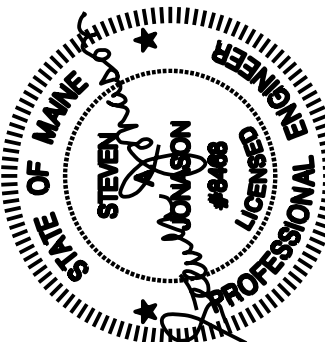
| TYPE | MANUFACTURER AND MODEL NUMBER                                                    | LAMP INFO      | REMARKS                                                                                              |
|------|----------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------|
| A    | COLUMBIA LIGHTING CAT No LXEW4-35H-FA-EU                                         | 178W/3500K LED | 4' SUSPENDED LINEAR HIGH BAY w/ 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 CLOSET DOOR                                |

PREPARED FOR:

STATE OF MAINE DOT  
Sherman Truck Storage Garage  
12 Qualey Drive, Sherman, Maine  
WIN 02524.00



David Matero  
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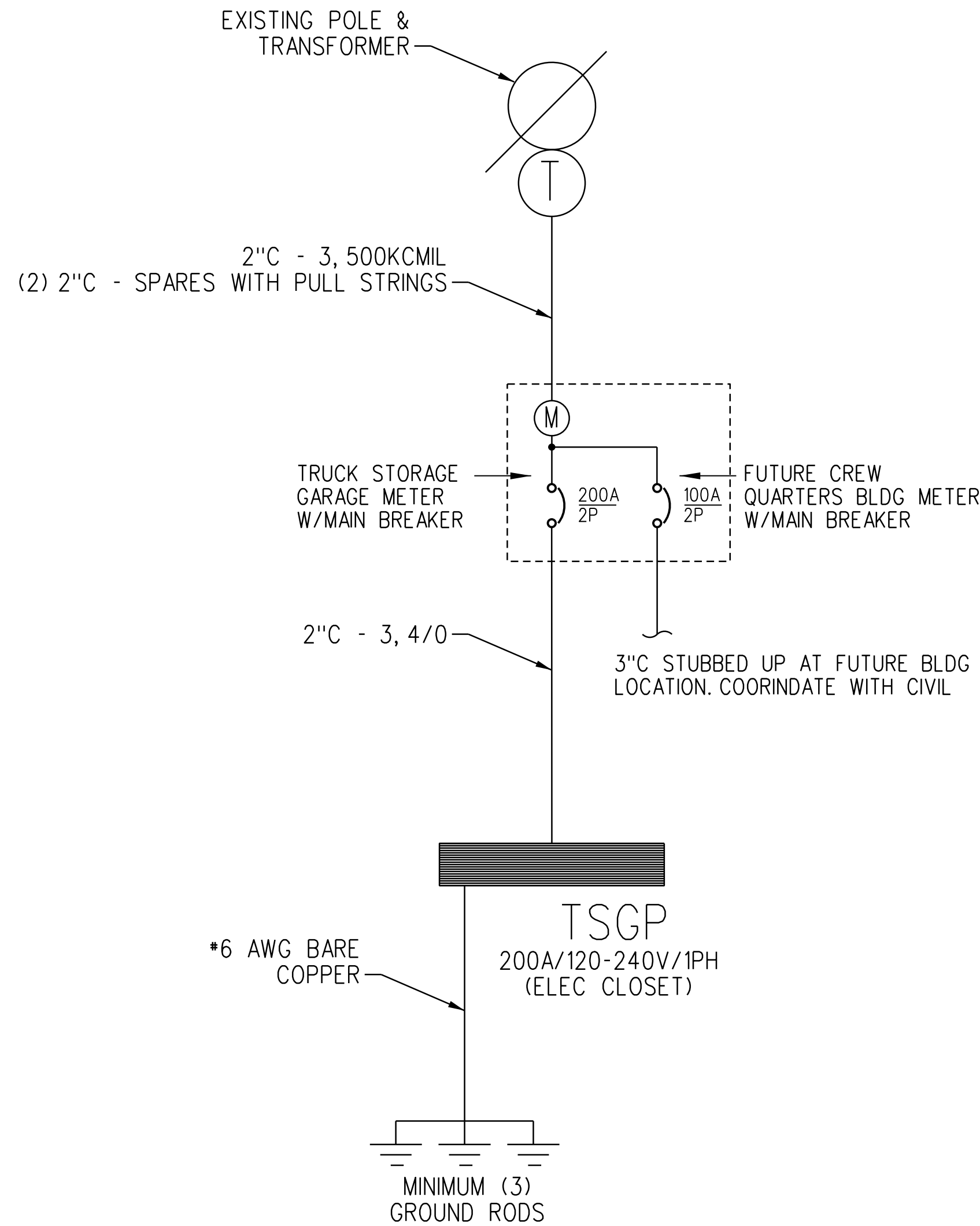


|                 |                  |         |            |            |               |
|-----------------|------------------|---------|------------|------------|---------------|
| DATE            | STEVEN JONASON   | ME 8468 | PE NUMBER  | 2021.11.18 | DATE          |
| BY              | CAT              | SAJ     |            |            |               |
| DESIGN-DETAILED | CHECKED-REVIEWED |         | REVISION 1 | REVISION 2 | REVISION 3    |
|                 |                  |         |            |            | FIELD CHANGES |

Electrical Notes,  
Legend & Details

SHEET NUMBER

E3.1



ONE LINE DIAGRAM

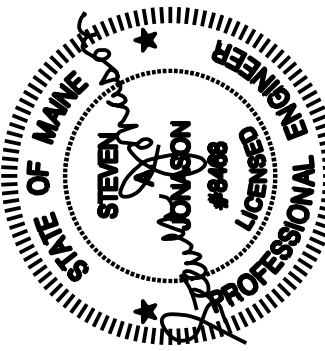
SCALE: NONE

| PANEL TSGP (GARAGE ELEC CLOSET) 120/240 1PH 4W 200 AMP MLO 42K AIC NEMA TYPE 1 (SURFACE) |                                                  |    |   |    |      |    |      |       |                                                    |       |    |    |      |      |      |   |
|------------------------------------------------------------------------------------------|--------------------------------------------------|----|---|----|------|----|------|-------|----------------------------------------------------|-------|----|----|------|------|------|---|
| CKT #                                                                                    | LOAD DESCRIPTION                                 | AT | P | CA | DF   | DA | VA   | CKT # | LOAD DESCRIPTION                                   | AT    | P  | CA | DF   | DA   | VA   |   |
| 1                                                                                        | LIGHTS: SOUTHWEST END OF BUILDING                | 30 | 1 | 22 | 0.80 | 18 | 2131 | 2     | LIGHTS: NORTHEAST END OF BUILDING                  | 30    | 1  | 22 | 0.80 | 18   | 2131 |   |
| 3                                                                                        | PF-1 CONTROLLER #1                               | 20 | 2 | 10 | 1.00 | 10 | 1200 | 4     | PF-1 CONTROLLER #2                                 | 20    | 2  | 10 | 1.00 | 10   | 1200 |   |
| 5                                                                                        |                                                  |    |   |    | 1.00 | 0  | 1200 | 6     |                                                    |       |    |    | 1.00 | 0    | 1200 |   |
| 7                                                                                        | RECEPTS: NORTHEAST                               | 20 | 1 | 8  | 0.50 | 4  | 450  | 8     | GFU#1: NORTHEAST (NEAR ELEC CLOSET)                | 20    | 1  | 11 | 1.00 | 11   | 1320 |   |
| 9                                                                                        | GFU#2: SOUTHEAST                                 | 15 | 1 | 11 | 1.00 | 11 | 1320 | 10    | FUTURE EQUIPMENT: SOUTHEAST (CONFIRM POWER REQ.)   | 20    | 2  |    | 0.50 | 0    | 0    |   |
| 11                                                                                       | FUTURE EQUIPMENT: SOUTHEAST (CONFIRM POWER REQ.) | 20 | 2 |    | 0.50 | 0  | 0    | 12    |                                                    | 20    | 2  |    | 0.50 | 0    | 0    |   |
| 13                                                                                       | MOTOR OPERATED DAMPERS (MODs) AT L-1 & L-2       | 20 | 1 |    | 0.50 | 0  | 0    | 14    | EXISTING RELOCATED COMPRESSOR (CONFIRM POWER REQ.) | 20    | 1  |    | 0.50 | 0    | 0    |   |
| 15                                                                                       |                                                  |    |   |    | 0.50 | 0  | 0    | 16    | SPARE                                              | 20    | 1  |    |      | 0    | 0    |   |
| 17                                                                                       | EF-2                                             | 15 | 2 | 7  | 1.00 | 7  | 828  | 18    | RECEPTS: SOUTHWEST                                 | 20    | 1  | 12 | 0.50 | 6    | 720  |   |
| 19                                                                                       |                                                  |    |   |    | 1.00 | 0  | 828  | 20    | GFU#3: SOUTHWEST                                   | 15    | 1  | 8  | 1.00 | 8    | 900  |   |
| 21                                                                                       | GFU#4: NORTHWEST                                 | 15 | 1 | 8  | 1.00 | 8  | 900  | 22    | FUTURE EQUIPMENT: SOUTHWEST (CONFIRM POWER REQ.)   | 20    | 2  |    | 0.50 | 0    | 0    |   |
| 23                                                                                       | FUTURE EQUIPMENT: SOUTHWEST (CONFIRM POWER REQ.) | 20 | 2 |    | 0.50 | 0  | 0    | 24    |                                                    | 20    | 1  |    | 0.50 | 0    | 0    |   |
| 25                                                                                       | EF-1                                             | 20 | 1 |    | 1.00 | 0  | 0    | 26    | MOTOR OPERATED DAMPERS (MODs) AT L-3 & L-4         | 20    | 1  |    | 0.50 | 0    | 0    |   |
| 27                                                                                       |                                                  |    |   |    | 1.00 | 0  | 0    | 28    | CO2/NO2 DETECTION SYSTEM: NORTHEAST                | 20    | 1  |    | 0.50 | 0    | 0    |   |
| 29                                                                                       | OVERHEAD DOOR OPERATOR: NORTH                    | 25 | 1 |    | 0.20 | 0  | 0    | 30    | CO2/NO2 DETECTION SYSTEM: SOUTHWEST                | 20    | 1  |    | 0.50 | 0    | 0    |   |
| 31                                                                                       | OVERHEAD DOOR OPERATOR: SOUTH                    | 25 | 1 |    | 0.20 | 0  | 0    | 32    | FILTER TANK CONTROL PANEL                          | 20    | 1  |    | 1.00 | 0    | 0    |   |
| 33                                                                                       | EXTERIOR RECEPTS: NORTH/ EAST SIDE OF BLDG       | 20 | 1 | 5  | 0.50 | 2  | 270  | 34    | EXTERIOR RECEPTS: SOUTH/WEST SIDE OF BLDG          | 20    | 1  | 6  | 0.50 | 3    | 360  |   |
| 35                                                                                       | RECEPTS: NORTHEAST                               | 20 | 1 | 6  | 0.50 | 3  | 360  | 36    | FUEL TANK EQUIPMENT (COORD. W/SUPPLIER)            | 20    | 2  |    | 1.00 | 0    | 0    |   |
| 37                                                                                       | FUEL TANK EQUIP (COORD. W/SUPPLIER)              | 20 | 1 |    | 1.00 | 0  | 0    | 38    |                                                    |       | 20 | 1  |      | 1.00 | 0    | 0 |
| 39                                                                                       | FUEL TANK EQUIP (COORD. W/SUPPLIER)              | 20 | 1 |    | 1.00 | 0  | 0    | 40    | FUEL TANK EQUIP (COORD. W/SUPPLIER)                | 20    | 1  |    | 1.00 | 0    | 0    |   |
| 41                                                                                       | TBB: LEFT RECEPTS                                | 20 | 1 | 3  | 0.50 | 2  | 180  | 42    | FUEL TANK EQUIP (COORD. W/SUPPLIER)                | 20    | 1  |    | 1.00 | 0    | 0    |   |
| 43                                                                                       | TBB: RIGHT RECEPTS                               | 20 | 1 | 3  | 0.50 | 2  | 180  | 44    | EF-2B                                              | 20    | 1  |    | 1.00 | 0    | 0    |   |
| 45                                                                                       | SPARE                                            | 20 | 1 |    |      | 0  | 0    | 46    |                                                    |       | 20 | 1  |      | 1.00 | 0    | 0 |
| 47                                                                                       | SPARE                                            | 20 | 1 |    |      | 0  | 0    | 48    |                                                    | SPARE | 20 | 1  |      |      | 0    | 0 |
| 49                                                                                       | SPARE                                            | 20 | 1 |    |      | 0  | 0    | 50    |                                                    | SPARE | 20 | 1  |      |      | 0    | 0 |
| 51                                                                                       |                                                  |    |   |    |      | 0  | 0    | 52    |                                                    | SPARE | 20 | 1  |      |      | 0    | 0 |
| 53                                                                                       |                                                  |    |   |    |      | 0  | 0    | 54    |                                                    |       |    |    |      |      | 0    | 0 |
| 55                                                                                       |                                                  |    |   |    |      | 0  | 0    | 56    |                                                    |       |    |    |      | 0    | 0    |   |
| 57                                                                                       |                                                  |    |   |    |      | 0  | 0    | 58    |                                                    |       |    |    |      | 0    | 0    |   |
| 59                                                                                       |                                                  |    |   |    |      | 0  | 0    | 60    |                                                    |       |    |    |      | 0    | 0    |   |
| 61                                                                                       |                                                  |    |   |    |      | 0  | 0    | 62    |                                                    |       |    |    |      | 0    | 0    |   |
| 63                                                                                       |                                                  |    |   |    |      | 0  | 0    | 64    |                                                    |       |    |    |      | 0    | 0    |   |
| 65                                                                                       |                                                  |    |   |    |      | 0  | 0    | 66    |                                                    |       |    |    |      | 0    | 0    |   |
| 67                                                                                       |                                                  |    |   |    |      | 0  | 0    | 68    |                                                    |       |    |    |      | 0    | 0    |   |
| 69                                                                                       |                                                  |    |   |    |      | 0  | 0    | 70    |                                                    |       |    |    |      | 0    | 0    |   |
| 71                                                                                       |                                                  |    |   |    |      | 0  | 0    | 72    |                                                    |       |    |    |      | 0    | 0    |   |

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



David Matero  
Architecture



STEVEN JONASON  
ME 8468  
PE NUMBER  
2021.11.18  
DATE

| DATE | BY         | DESIGN-DETAILED | CHECKED-REVIEWED | REVISION 1 | REVISION 2 | REVISION 3 | FIELD CHANGES |
|------|------------|-----------------|------------------|------------|------------|------------|---------------|
|      | CAT<br>SAJ |                 |                  |            |            |            |               |

One-Line Diagram  
& Panel Schedule

SHEET NUMBER

E3.2