

ADDENDUM NO. 3

DECEMBER 22, 2023

PREPARED BY SCHMIDT ASSOCIATES FOR:
FRYEBURG SHOOTING RANGE
MAINE DEPARTMENT OF INLAND FISHERIES & WILDLIFE

BGS PROJECT #2742

This Addendum consists of 5 Addendum pages and 13 attachment pages totaling 18 pages.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

A. Document 015000 “TEMPORARY FACILITIES AND CONTROLS”

1. ADD the following sentence to the end of paragraph 2.1.A.:
“A temporary field office is required on site for this Project. All costs shall be included in the base bid”.

2.2 DIVISION 03 – CONCRETE

A. Section 034100.99 “PRECAST SOUND WALL”

1. Where “AASHTO Guide Specifications for Structural Design of Sound Barriers” is listed, replace with “AASHTO LRFD”.
2. Delete and replace the last paragraph, “BASIS OF PAYMENT” with the following:
“The Contractor shall include in their base bid, all work associated with Noise Barrier”.
3. Page 3, second paragraph, second sentence, change (100mm/150mm/200mm) to (6-inches).

B. Section 03 30 00 “CAST-IN-PLACE CONCRETE”

1. DELETE AND REPLACE Subparagraph 2.10.B.1 in its entirety and replace with the following:

“1. Minimum Compressive Strength: 4500 psi at 28 days”

C. Section 03 30 00 **“CAST-IN-PLACE CONCRETE”**

1. DELETE AND REPLACE Subparagraph 2.10.C.1 in its entirety and replace with the following:

“1. Minimum Compressive Strength: 4500 psi at 28 days”

2.3 DIVISION 04 – MASONRY

A. Section 042200 **“CONCRETE UNIT MASONRY”**

1. DELETE Section 042200 “Concrete Unit Masonry” in its entirety.

2.4 DIVISION 31 – EARTHWORK

A. Section 312000 **“EARTH MOVING”**

1. ADD Paragraph 2.1.L as follows:

“L. All subbase and base materials shall be in conformance with MDOT gradations and specifications.”

B. Section 313213.16 **“CEMENT SOIL STABILIZATION”**

1. ADD section in its entirety.

2.5 DIVISION 32 - EXTERIOR IMPROVEMENTS

A. Section 323113 **“CHAIN LINK FENCES AND GATES”**

1. DELETE AND REPLACE Paragraph 2.1.A.1.d. as follows:

“d. Weight of Aluminum Coating: ASTM A 491, Type I, 0.4 oz./sq. ft. for 9-gauge fabric.”

2.6 DIVISION 33 - UTILITIES

A. Section 334100 **“STORM UTILITY DRAINAGE PIPING”**

1. DELETE Paragraphs 3.9 B, C, and D in their entirety.

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain unchanged.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: ADD (A), DELETE (D), DELETE & REPLACE (R),
C-SERIES DRAWINGS	
CL101	DELETE AND REPLACE
CL502	DELETE AND REPLACE
S-SERIES DRAWINGS	
S101	DELETE AND REPLACE
S102	DELETE AND REPLACE
S103	DELETE AND REPLACE
A-SERIES DRAWINGS	
A101	DELETE AND REPLACE

3.2 C-SERIES DRAWINGS

A. Drawing Number C001

1. ADD the following to General Utility Note #9 as follows:

“The Contractor is responsible for paying for all testing costs as outlined in section 014000 Quality Requirements and as outlined in the individual sections of the Project Manual. If additional testing is required due to unforeseen or poor soil conditions, the Contractor will be reimbursed for the additional testing”.

B. Drawing Numbers CU101 AND CU102

1. Notes referencing the 4" PERF HDPE STM, INSTALLED 4" ABOVE BOTTOM OF STONE LAYER, change stone layer to base layer. Follow Detail 3C/CU501.

PART 4 - RFI QUESTIONS AND CLARIFICATIONS

1. Is there supposed to be a CL102 plan sheet? It says there is a match line of CL101.
 - a. *There is no sheet CL102.*
2. Regarding the sound absorptive barrier: Please clarify the 20' wall height requirement. Is the 20' required height measured from finished grade (i.e. neglects the buried panel) or is this considered true wall height from bottom of bottom panel to top of top panel in each bay?
 - a. *The 20' wall height may be considered the true wall height from bottom of bottom panel to top of top panel.*
3. Regarding the sound absorptive barrier: The specifications call for the door to be made of the same sound absorptive precast material as the panels. Windows cannot be added into this style of door. Can the doors be an 'off the shelf' double-wide steel door? See photo from similar project:
 - a. *The door may be an 'off the shelf' double-wide steel door per the specifications.*
4. Regarding the sound absorptive barrier: Please confirm whether hot dip galvanized is allowed for the steel posts with no painting.
 - a. *Confirmed, Hot dip galvanized is allowed for the steel posts with no painting.*
5. Regarding the sound absorptive barrier: Has the owner selected a general color (i.e. tan, brown, grey) for the panels and steel posts? If so please provide.

- ### ADDENDUM NO. 3

- a. While this is a Means and Methods issue, suggest the best access route is along the pedestrian corridor immediately southeast of the sound wall, with access available at either end of the sound wall. Contractor may also delay installation of some sections of the sound wall panels to provide access.*
- 17. We need clarification on if there's a frost wall around the entire shooting canopy or just under the RSO office?
 - a. Refer to detail 3C and 4C on CL501.*
- 18. Details on page CL501 seems to be off scale.
 - a. Ignore scale, dimensions are shown.*
- 19. Looking at the plans on this (fencing) I am having trouble figuring out exactly what is required for fence. Documents CG-101 and CU-101 show the fence extending off the sheet for both the chain link and wood fence. The match line pages also show the fence going off the page. C-001 shows fence all the way around the property. I cannot tell if some of this is existing fence or whether they want the whole property enclosed. If they to want the whole property fenced what do they want for fence?
 - a. Entire property will be fenced, see C-002.*
- 20. Also looking for clarification on sheet CD101; Demolition Key Note #1 states: "Owner will clear timber within construction limits prior to start of construction." – What will the extent of this be? Will all timber and small trees be removed from the site leaving just the stumps in the ground? And what would the timeline be to complete the tree clearing operation?
 - a. The Owner has timbered out the entire project area in 2022 located within the heavy dashed lines as indicated on CD101/CD102. All remaining vegetation, debris, stumps within this area are to be removed by the Contractor.*

END OF ADDENDUM 3

SECTION 313213.16 - CEMENT SOIL STABILIZATION

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. This Section pertains to the specifications for cement stabilization of sandy or silty soil and consists of pulverizing, addition of Portland cement, mixing, wetting and compacting the mixed material to the required density. This Section applies to natural ground, embankment, or pavement subgrade and shall be constructed as specified herein and in conformity with the typical sections, details, lines and grades as shown on the plans.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Drawings and general provisions of the Contract, including Procurement and Contracting Requirements, Division 00 and Division 01 apply to this section.
- B. Section 311100 – Clearing and Grubbing
- C. Section 312000 - Earth Moving
- D. Section 321216 – Asphalt Paving
- E. Section 321313 – Concrete Paving

1.3 APPLICABLE PUBLICATIONS

The following publications of the latest issues listed below, but referred to thereafter by basic designation only, form a part of this specification to the extent indicated by references thereto:

- A. American Society for Testing and Materials Standards (ASTM):
 - 1. C 150-07 Standard Specification for Portland Cement
 - 2. D 698-07e1 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³)
 - 3. D 1557-07 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³)
- B. Indiana Department of Transportation Standard Specifications, Section 219, "Cement Stabilized Subgrade Soil"

1.4 DEFINITIONS

- A. Subgrade: The uppermost surface of an excavation, including excavation for trenches, or the top surface of a fill or backfill immediately below base course, pavement, or topsoil materials.
- B. Backfill: Soil material or controlled low-strength material used to fill an excavation.

- C. Base Course: The layer placed between the subgrade and surface pavement in a paving system.
- D. Geotechnical Engineer: Person or company contracted by the owner and/or through the architect to provide testing and onsite Geotechnical services during the construction schedule.

1.5 QUALITY ASSURANCE

- A. Codes and Standards: Perform earthwork complying with requirements of authorities having jurisdiction.
- B. Testing and Inspection Service: Employ a qualified independent geotechnical engineering testing agency to classify proposed on-site and borrow soil materials to verify that soils comply with specified requirements and to perform required field and laboratory testing. Contractor responsible to coordinate with the testing agency prior to start of work requiring testing so as to minimize unnecessary cost or delays to the project.
- C. Testing:
 - 1. Retain and pay a qualified Geotechnical engineer to take all field samples and do all laboratory testing necessary to verify compliance of the work to these Specifications or as required by City or other regulatory agencies. The Geotechnical Engineer shall submit results of all testing done during the course of the work to the Owner, Architect, and Contractor.
 - 2. Notify testing lab a minimum of 48 hours in advance of the time testing is required to satisfy requirements of this section.
 - 3. Should testing specified above show work which does not satisfy these Specifications, the Contractor shall pay, through the Owner, for all additional tests required to determine the extent of work that is not satisfactory and for all additional tests necessary to demonstrate compliance with these specifications.
 - 4. All tests shall be performed by the Soil Engineer in accordance with ASTM C150, D 698, D1557, Tex-114-E or other test method selected by Geotechnical Engineer.

1.6 PROJECT/SITE CONDITIONS

- A. Cement treatment shall not be mixed or placed when the air temperature is below 40 degrees F and is falling, but may be mixed or placed when the air temperature is above 35 degrees F and is rising, the temperature being taken in the shade and away from artificial heat and with the further provision that cement treatment shall be mixed or placed only when weather conditions are suitable.
- B. Completed sections of cement treated material in place may be opened immediately to local traffic and to construction equipment and to all traffic after the curing period, provided the cement treated course has hardened sufficiently to prevent marring or distorting the

surface by equipment or traffic.

- C. The Contractor shall be required, within the limits of his contract, to maintain the cement treated course in good condition until all work has been completed and accepted. Maintenance shall include immediate repairs of any defects that may occur. This work shall be done by the Contractor at his own expense and repeated as often as may be necessary to keep the area continuously intact. Faulty work shall be replaced for the full depth of treatment. It is the intent of this specification that the Contractor constructs the plan depth of cement treatment in one homogeneous mass. The addition of thin stabilized layers will not be permitted in order to provide the minimum specified depth.

D. Design Strength

Cement mixture shall produce at least 750 psi unconfined compressive strength at 7 days. Percent of cement to be used shall be coordinated with Geotechnical Report but in no way shall the percent of cement added be less than 5%

1.7 SUBMITTALS

- A. None required for this section.

PART 2 - PRODUCTS

2.1 SOIL

- A. Soil shall consist of approved sand or silt material free from vegetation or other objectionable matter encountered in the existing subgrade and other acceptable material used in preparation of the subgrade in accordance with this specification.

2.2 PORTLAND CEMENT

- A. Cement shall be Type 1 of a standard brand of Portland cement and shall conform to the requirements of ASTM Designation: C 150-07.
- B. One sack, containing 1 cubic foot of cement, shall be considered as weighing 94 pounds net. One barrel of cement shall be considered as weighing 376 pounds net and containing 4 cubic feet.
- C. It is the Contractors option to use bulk cement, provided the apparatus for handling, weighing and spreading the cement is approved in writing. Cement weighing equipment shall be as specified below in 3.1.A.

2.3 WATER

- A. Water used for mixing or curing shall be reasonably clean and free of oil, salt, acid, alkali, sugar, vegetable matter or other substances injurious to the finished product.
- B. Water sources other than the local municipal domestic water supply must be approved by the Owner.
- C. If onsite reclaimed water sources are used, tanks and appurtenances must be clearly marked

with the words "non-potable" water.

PART 3 - EXECUTION

3.1 EQUIPMENT

- A. Equipment utilized where materials are specified to be measured or proportioned by weight shall conform to the requirements of the INDOT specifications, Section 219, "Cement Stabilized Subgrade Soil" Equipment necessary for the proper construction of the work shall be on the project, in first-class working condition, both as to type and condition, prior to the start of construction operations. The Contractor shall at all times provide sufficient equipment to enable continuous prosecution of the work and completion in the required number of working days.
- B. Portland cement treatment for materials in place may be constructed with any machine or combination of machines and auxiliary equipment that will produce results as outlined in this specification.
- C. Mixing may be accomplished by a multiple-pass traveling mixing plant or a single-pass traveling mixing plant.
- D. The equipment provided by the Contractor shall be operated by experienced and capable employees and shall be that equipment necessary to provide a cement treatment meeting the requirements herein specified.

3.2 CONSTRUCTION METHOD

- A. It is the primary requirement of this specification to secure a completed course of treatment containing a uniform Portland cement mixture free from loose or segregated areas, of uniform density and moisture content, well bound for its full depth and with a smooth surface suitable for placing subsequent courses. It shall be the responsibility of the Contractor to regulate the sequence of work, to process a sufficient quantity of material to provide full depth as shown on plans, to use the proper amount of Portland Cement to maintain the work and rework the courses as necessary to meet the above requirements.

3.3 PREPARATION OF SUBGRADE

- A. Before other construction operations are begun, the subgrade shall be graded and shaped as required to construct the Portland cement treatment for material in place in conformance with the lines, grades, thickness and typical cross section shown on the plans. Unsuitable soil or material shall be removed and replaced with acceptable soil.
- B. The subgrade shall be firm and able to support without displacement the construction equipment and the compaction hereinafter specified. Soft or yielding subgrade shall be corrected and made stable before construction proceeds.

3.4 PULVERIZATION

- A. The soil shall be pulverized such that at the completion of moist-mixing, 100 percent by dry weight passes a 1-inch sieve, and a minimum of 80 percent passes a No. 4 sieve, exclusive of

gravel or stone retained on these sieves.

3.5 APPLICATION OF CEMENT

- A. Portland cement shall be spread uniformly on the soil in such quantity that all soil to be treated receives the minimum percentage of cement. If a bulk cement spreader is used, it shall be positioned by string lines or other approved method during spreading to insure a uniform distribution of cement.
- B. Cement shall be applied to an area such that the operation can be continuous and completed in daylight within 6 hours of such application.
- C. The percentage of moisture in the soil, at the time of cement application, shall not exceed the quantity that will permit uniform and intimate mixture of soil and cement during dry mixing operations. It shall not exceed the specified optimum moisture content for the soil cement mixture.
- D. No equipment, except that used in spreading the mixture, will be allowed to pass over the freshly spread cement until it is mixed with the soil.

3.6 MIXING AND PROCESSING

- A. Unless otherwise shown on the plans, either method (A) or (B) below may be used at the option of the Contractor.
 - 1. Multiple-Pass Traveling Mixing Plant
 - a. After the cement has been applied it shall be dry-mixed with the soil. Mixing shall continue until the cement has been sufficiently blended with the soil to prevent the formation of cement balls when water is applied. Any mixture of soil and cement that has not been compacted and finished shall not remain undisturbed for more than 30 minutes.
 - b. Immediately after the dry mixing of soil and cement is complete, water as necessary shall be uniformly applied and incorporated into the mixture. Pressurized equipment and supply provided shall be adequate to insure continuous application of the required amount of water to sections being processed within 3 hours of application of the cement. Proper care shall be exercised to insure proper moisture distribution at all times. After the last increment of water has been added, mixing shall continue until a thorough and uniform mix has been obtained.
 - 2. Single-Pass Traveling Mixing Plant
 - a. After the cement has been applied it shall be sufficiently dry-mixed with the soil to prevent the formation of cement balls when water is applied. Un-pulverized soil lumps in the soil cement mixture immediately behind the mixer that are dry will not be allowed. Should this condition prevail, the Contractor shall "pre-wet" the raw soil as necessary to correct this condition.
 - b. This mixer shall be provided with means for visibly and accurately gauging the

water application. The water shall be applied uniformly through a pressure spray bar.

- c. After cement is spread, mixing operations shall proceed as follows:
 - i. The mixer shall in one continuous operation thoroughly moist-mix the soil, cement and water, spread the completed soil cement mixture evenly over the machine processed width of the subgrade and leave it in a loose condition ready for immediate compaction.
 - ii. The soil and cement mixture shall not remain undisturbed, after mixing and before compacting, for more than 30 minutes.

3.7 COMPACTION AND FINISHING

- A. The material shall be compacted to not less than 95 percent of the Standard Maximum Density (ASTM D698-07e1) and as shown on the plans. At the start of compaction, the percentage of moisture in the mixture and in un-pulverized soil lumps, based on oven-dry weights, shall not be below or more than two percentage points above the specified optimum moisture content and shall be less than that quantity which will cause the soil cement mixture to become unstable during compaction and finishing. When the uncompacted soil cement mixture is wetted by rain so that the average moisture content exceeds the tolerance given at the time of final compaction, the entire section shall be reconstructed in accordance with this specification at the sole expense of the Contractor.
- B. The specified optimum moisture content and density shall be determined in the field by Test Method Tex-114-E or other approved methods, on representative samples of soil cement mixture obtained from the area being processed.
- C. Prior to the beginning of compaction, the mixture shall be in a loose condition for its full depth. The loose mixture then shall be uniformly compacted to the specified density within 2 hours after the application of cement.
- D. After the soil and cement mixture, is compacted, water shall be uniformly applied as needed and thoroughly mixed in with a spiketooth harrow or equal. The surface shall then be reshaped to the required lines, grades and cross section and then lightly scarified to loosen any imprint left by the compacting or shaping equipment.
- E. The resulting surface shall be thoroughly rolled with a pneumatic tire roller and "clipped", "skinned", or "tight bladed" by a power grader to a depth of approximately 1/4 inch, removing all loosened soil and cement from the section. The surface shall then be thoroughly compacted with the pneumatic roller, adding small increments of moisture as needed during rolling. If plus No. 4 aggregate is present in the mixture, one complete coverage of the section with the flat wheel roller shall be made immediately after the "clipping" operation. When directed by the Owner, surface finishing methods may be varied from this procedure provided a dense, uniform surface, free of surface compaction planes, is produced. The moisture content of the surface material must be maintained within two (2) percent of its specified optimum during all finishing operations. Surface compaction and finishing shall proceed in such a manner as to produce, a smooth, closely knit surface, free of cracks, ridges or loose material conforming to the crown, grade and line shown on the plans in a timeframe no longer than 2 hours from the initial application of cement.

- F. Finished Surface should not vary more than 3/8 inch when tested with a straight edge 10-16 feet long.
- G. Thickness of finished subgrade shall be at least the thickness shown on the plans within ¼ inch tolerance and can exceed the thickness shown on the plans as needed to meet the needs of the project

3.8 CURING

A. Protection and Cover

After the cement treated course has been finished as specified herein, the surface shall be protected against rapid drying by any of the following curing methods for a period no less than 3 days or until the surface or subsequent courses are placed:

- 1. Maintain in a thorough and continuously moist condition by sprinkling, or
- 2. Apply a 2-inch layer of earth on the completed course and maintain in a moist condition, or
- 3. Apply an asphalt membrane to the treated course, immediately after same is completed. The quantity and type of asphalt shall be sufficient to completely cover and seal the total surface of the base and fill all voids. If the Contractor elects to use this method, it shall be the Contractor's responsibility to protect the asphalt membrane from being picked up by traffic by either sanding or dusting the surface of same. The asphalt membrane may remain in place when the proposed surface or other base courses are placed.

B. Surface

- 1. The surface or other base courses may be applied on the finished base as soon after completion as operations will permit.

3.9 CONSTRUCTION JOINTS

- A. At the end of each day's construction a straight transverse construction joint shall be formed by cutting back into the total width of completed work to form a true vertical face free of loose and shattered material.
- B. Cement treatment for large, wide areas shall be built in a series of parallel lanes of convenient length and width as approved.

END OF SECTION 313213.16



LAYOUT LEGEND

- LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL 1B/CL501
- REGULAR DUTY ASPHALT PAVEMENT, SEE DETAIL 1A/CL501
- CONCRETE PAD OR BUILDING PAD, SEE DETAILS 4B/CL501 & 4C/CL501
- RANGE STONE PAVEMENT, SEE DETAIL 1C/CL501

- TYP TYPICAL OF MULTIPLE AREAS
- VA VAN ACCESSIBLE
- ASR ACCESSIBLE SIDEWALK RAMP
- CL CENTERLINE
- L LENGTH
- R RADIUS
- N NORTHING COORDINATE
- E EASTING COORDINATE

LAYOUT KEY NOTES

- RANGE PAVEMENT AREAS AND SIDEWALKS, LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL 1B/CL501.
- ENTRANCE AND PARKING PAVEMENT AREA, REGULAR DUTY ASPHALT PAVEMENT, SEE DETAIL 1A/CL501.
- RANGE STONE PAVEMENT, SEE DETAIL 1C/CL501.
- REINFORCED CONCRETE PAD WITH THICKENED EDGE & INSULATION, SEE DETAIL 3C/CL501.
- INLET CONCRETE COLLAR, SEE DETAIL 2C/CL501.
- 6'H CHAIN LINK FENCE (CLF), SEE SPECS.
- 4'H CHAIN LINK FENCE (CLF), SEE SPECS.
- 16"W CLF SLIDING GATE, HEIGHT TO MATCH ADJACENT FENCE, SEE SPECS.
- 26"W CLF SLIDING GATE, HEIGHT TO MATCH ADJACENT FENCE, SEE SPECS.
- 6'H WOOD SHADOW BOX FENCE, SEE DETAILS 1A & 1B/CL502, AND SPECS.
- TRAP HOUSE AND THROWING EQUIPMENT BY OWNER. NOT IN CONTRACT.
- ADA PARKING SIGN INSTALLED IN BOLLARD, SEE DETAIL 2A/CL501.
- ADA PARKING EMBLEM, SEE DETAIL 3A/CL501.
- PERMANENT TURF SEEDING FOR ALL DISTURBED AREAS, SEE SPECS.
- PERMANENT TURF SEEDING WITH EROSION CONTROL BLANKET. SEE EROSION CONTROL PLAN AND DETAILS.
- MATCH EXISTING PAVEMENT GRADE AND PROFILE ALONG FISH AND GAME ROAD.
- EARTH BALLISTIC BACKSTOP BERMS & SIDE BERMS, SEE DETAILS 3D & 3E/CL501.
- RANGE CAUTION SIGNS PROVIDED & INSTALLED BY OWNER, SPACED AT 100' ON FENCE ALONG RICOCHET ZONE & SAFETY ZONES, SEE SH. C-002.
- RANGE CAUTION SIGNS PROVIDED & INSTALLED BY OWNER, SPACED AT 100' ON POSTS AROUND PERIMETER OF RICOCHET & SAFETY ZONES OR ALONG SHORELINE, SEE SH. C-002.
- 20'H CONCRETE SOUND ABSORPTIVE NOISE BARRIER WALL, DURSOL NB15 OR APPROVED EQUAL, SEE SPECS. NOTE: FINAL DETAILED DRAWINGS FOR THE NOISE BARRIER WALL SYSTEM IS A DELEGATED DESIGN.
- CONCRETE BUMPER BLOCK, SEE DETAIL 3B/CL501.
- RANGE PAVEMENT MARKING. LINES & NUMBERS ON PAVEMENT TO BE YELLOW UNLESS NOTED OTHERWISE. SEE DETAILS 3A, 4A, 5A, 3B & 4B/CL502 FOR ADDITIONAL RANGE PAINTING DETAILS.
- CONCRETE BUILDING PAD WITH PERIMETER GRADE BEAM AND REINFORCEMENT, SEE DETAIL 4C/CL501. BUILDING STRUCTURE TO BE INSTALLED BY OWNER.
- FUTURE RESTROOM/CLASSROOM BUILDING. BUILDING AND FOUNDATIONS NOT IN CONTRACT. PROVIDE LEVEL GRADED BUILDING PAD ONLY.
- RIFLE RANGE CANOPY STRUCTURE, SEE SHEET S102.
- PISTOL RANGE CANOPY STRUCTURE, SEE SHEET S103.
- ARCHERY RANGE CANOPY STRUCTURE, SEE SHEET S101.
- RANGE SAFETY OFFICER (RSO) CONTROL BOOTH, SEE SHEET A100.
- WOOD UTILITY POLE FOR TREE STAND USE TO BE INSTALLED BY OWNER. NOT IN CONTRACT.
- ARCHERY TARGET TO BE INSTALLED BY OWNER. NOT IN CONTRACT.
- PORTABLE RESTROOM FACILITIES TO BE FURNISHED AND INSTALLED BY OWNER. NOT IN CONTRACT.
- 4'H HEAVY DUTY FIXED KNOT WOVEN WIRE FENCE ON DRIVEN POSTS, 25' POST CENTERS, 12.5 GAUGE HIGH-TENSILE WIRE, 9 HORIZONTAL LINES, 6" VERTICAL LINE SPACING, CLASS 3 GALVANIZED, OR APPROVED EQUAL.
- 20' HIGH FLAGPOLE, SEE DETAIL 5A/CL501 & SPECS.
- STORMWATER DETENTION AND TREATMENT AREA.
- RICOCHET AND SHOTFALL ZONES. NO ACCESS PERMITTED DURING LIVE FIRE ACTIVITIES.
- FUTURE SEPTIC ABSORPTION FIELD, PROVIDE TEMPORARY PERIMETER FENCE TO MINIMIZE DISTURBANCE DURING CONSTRUCTION.
- 42"HIGH 4"x4" PRESSURE TREATED WOOD POSTS IN CONC FOOTINGS WITH GALVANIZED HARDWARE TO STRING REMOVABLE 3/8" GALVANIZED CHAIN BETWEEN POSTS.
- 4'H HEAVY DUTY WOVEN WIRE FENCE FOLLOWS JURISDICTIONAL LIMITS OF SACO RIVER CORRIDOR. SEE NOTE 32 ABOVE.
- 8' WIDE DOUBLE LEAF INSULATED METAL ACCESS DOOR THROUGH CONCRETE SOUND WALL, SEE DETAIL 1C/CL502 & SPECS. PROVIDED CONCRETE GRADE BEAM FOR DOOR THRESHOLD TIED INTO ADJACENT WALL POST FOOTINGS.
- STANDARD PARKING STALL STRIPING, 10'W x 20'D x 4' WIDE WHITE TRAFFIC PAINT.
- ADA PARKING STALL STRIPING, 4' WIDE BLUE TRAFFIC PAINT, SEE DETAIL 4A/CL501.
- STOP SIGN, MUTCD R1-1, SEE DETAIL 6A/CL501 & SPECS.
- 12"W CLF SLIDING GATE, HEIGHT TO MATCH ADJACENT FENCE.
- 16'W CLEARED AND LEVELED MAINTENANCE ACCESS CORRIDOR BETWEEN GATES.

GENERAL LAYOUT NOTES

- NORTHING AND EASTING COORDINATES ARE UTM, ZONE 19, NAD83 DATUM, METERS.
- ALL DIMENSIONS ARE REFERENCED TO THE FACE OF CURB, EDGE OF PAVEMENT, EDGE OF SIDEWALK, OR OUTSIDE SURFACE OF BUILDING WALL UNLESS OTHERWISE NOTED.
- REFER TO SHEET C-001 FOR ADDITIONAL LAYOUT PLAN NOTES.
- NOT ALL LAYOUT KEY NOTES APPLY TO THIS SHEET.
- SEE 'C' SERIES DRAWINGS FOR GRADING INFORMATION AND LIMITS OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONSTRUCTION LINE AND GRADE TO ENSURE ACCURATE LAYOUT OF SITE IMPROVEMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTS. ANY PROPERTY CORNER MONUMENT DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A MAINE LICENSED SURVEYOR AT CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING PERMANENT BENCHMARKS. IF BENCHMARKS ARE TO BE DISTURBED OR DESTROYED AS PART OF DEMOLITION ACTIVITY, THE CONTRACTOR SHALL HAVE A MAINE LICENSED SURVEYOR ESTABLISH ANOTHER BENCHMARK AT A NEARBY LOCATION OUT OF HARM'S WAY.
- ALL EXISTING PAVEMENT AND ACCESS ROADS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
- PARKING SUMMARY: 55 TOTAL SPACES INCLUDING 3 ADA SPACES.

2A SITE LAYOUT PLAN
1" = 30'

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2016-114.FSR
Project Date 11.20.2023
Produced ATJ

Final Construction Plans

Allen T. Jacobsen
These Drawings and Specifications, and all copies thereof are and shall remain the property and copyright of the Architect. They shall be used only with respect to this Project and are not to be used on any other Project or Work without prior written permission from the Architect.

#	Revision	Date
A3	ADDENDUM 3	12.22.2023

58 Fish & Game Road
Fryeburg, ME 04037

Maine Dept. of Inland Fisheries & Wildlife

Fryeburg Shooting Range

SITE LAYOUT PLAN

CL101

E
D
C
B
A

6

5

4

3

2

1

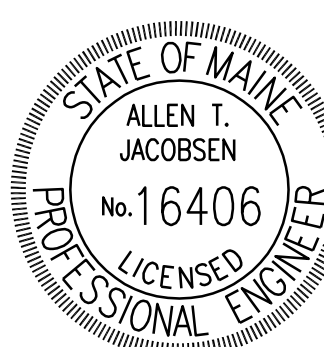


SCHMIDT
ASSOCIATES

415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2016-114.FSR
Project Date 11.20.2023
Produced ATJ

Final Construction Plans

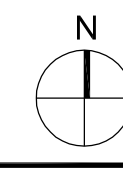


Allen T. Jacobsen
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#	Revision	Date
A3	ADDENDUM 3	12.22.2023



58 Fish & Game Road
Fryeburg, ME 04037



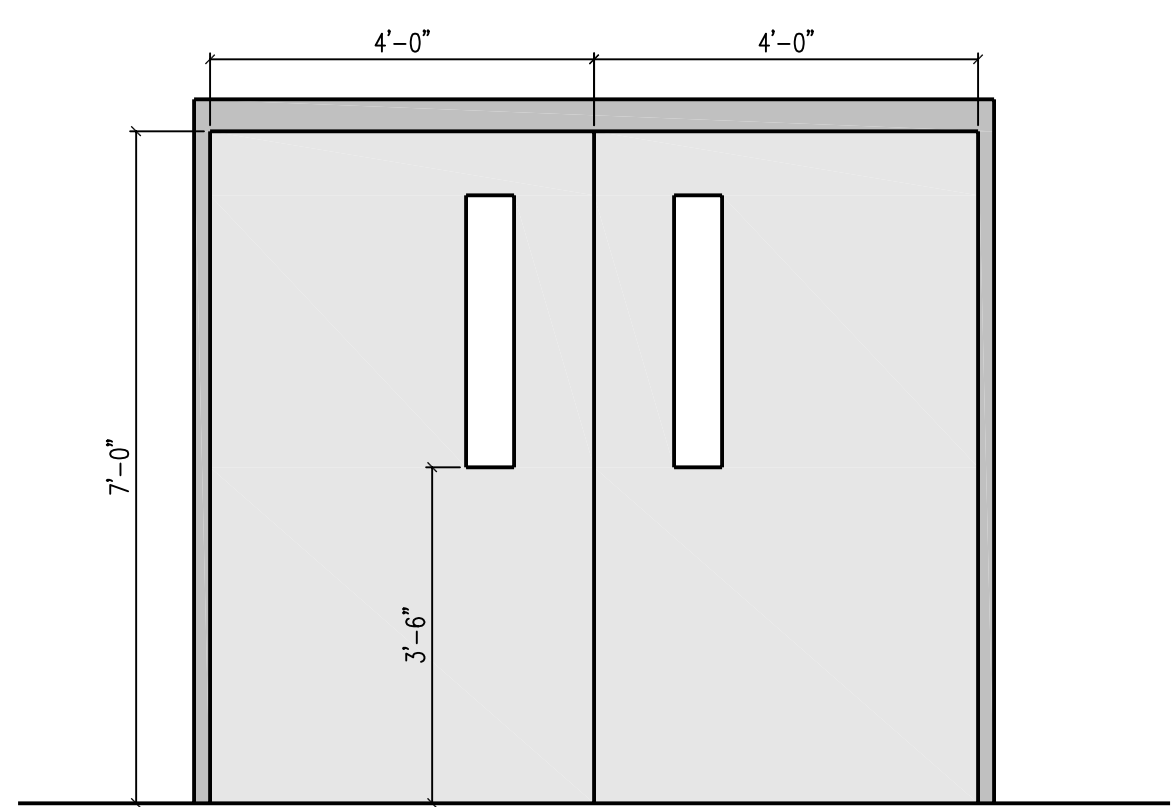
Maine Dept. of Inland Fisheries & Wildlife



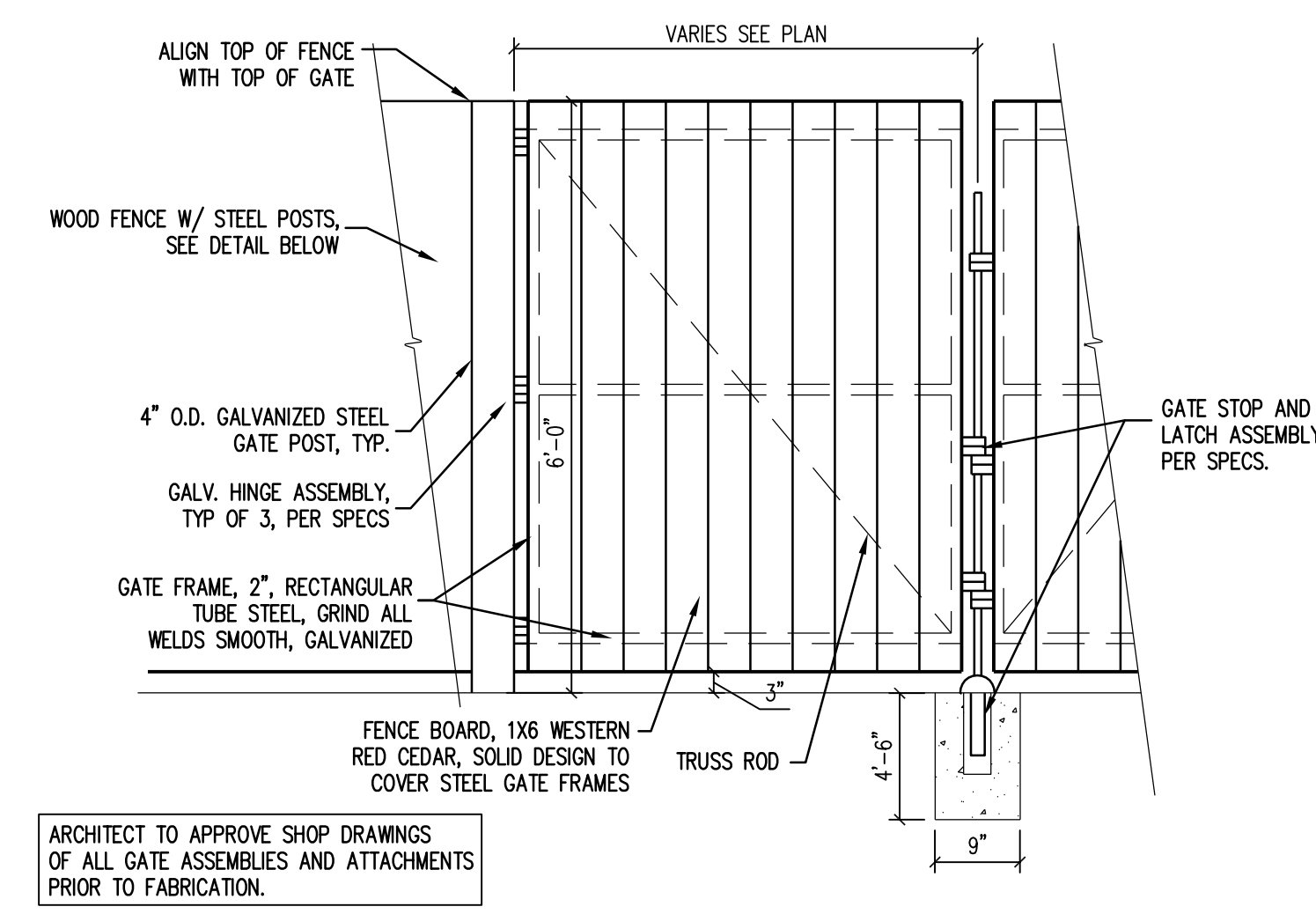
Fryeburg Shooting Range

SITE LAYOUT DETAILS

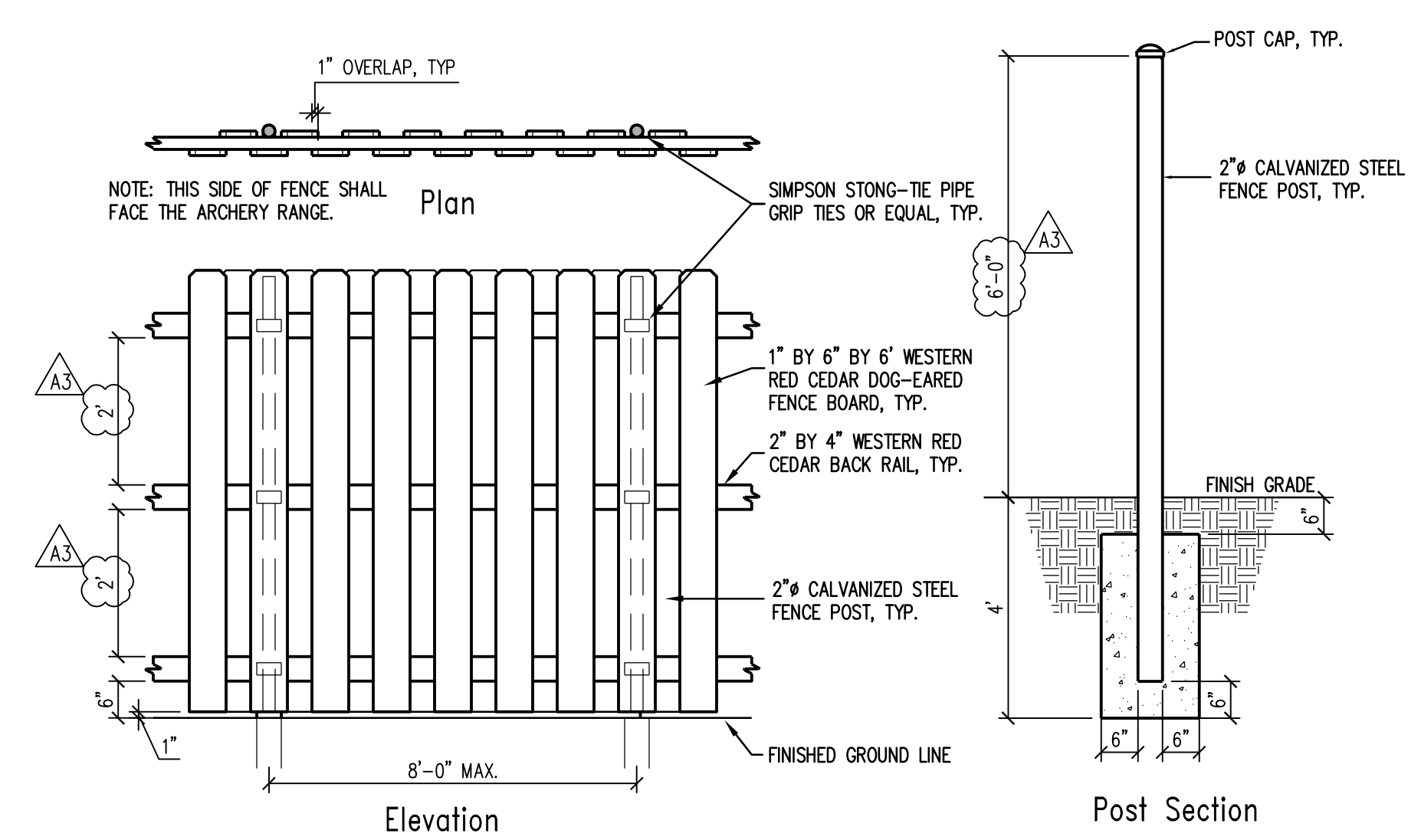
CL502



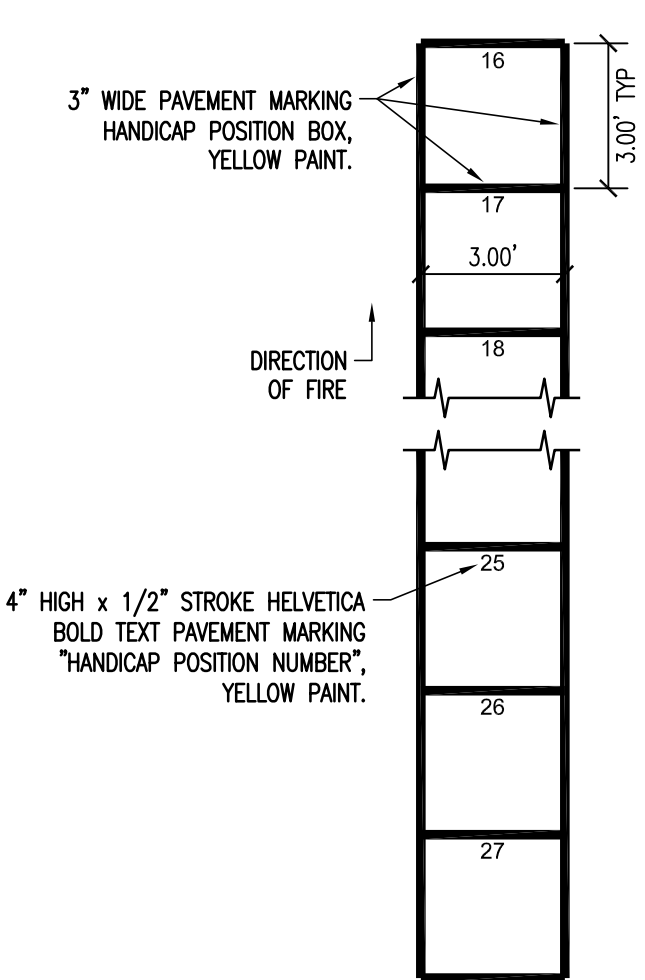
1C Sound Wall Door Elevation
Scale: 1" = 1'-0"



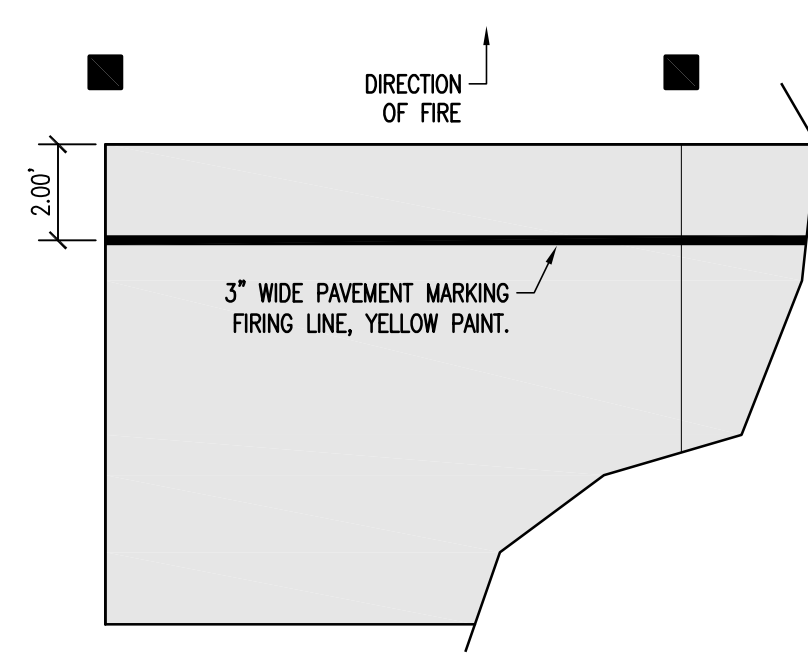
1B Typical Steel Framed Gate for Wood Fence
Not to Scale



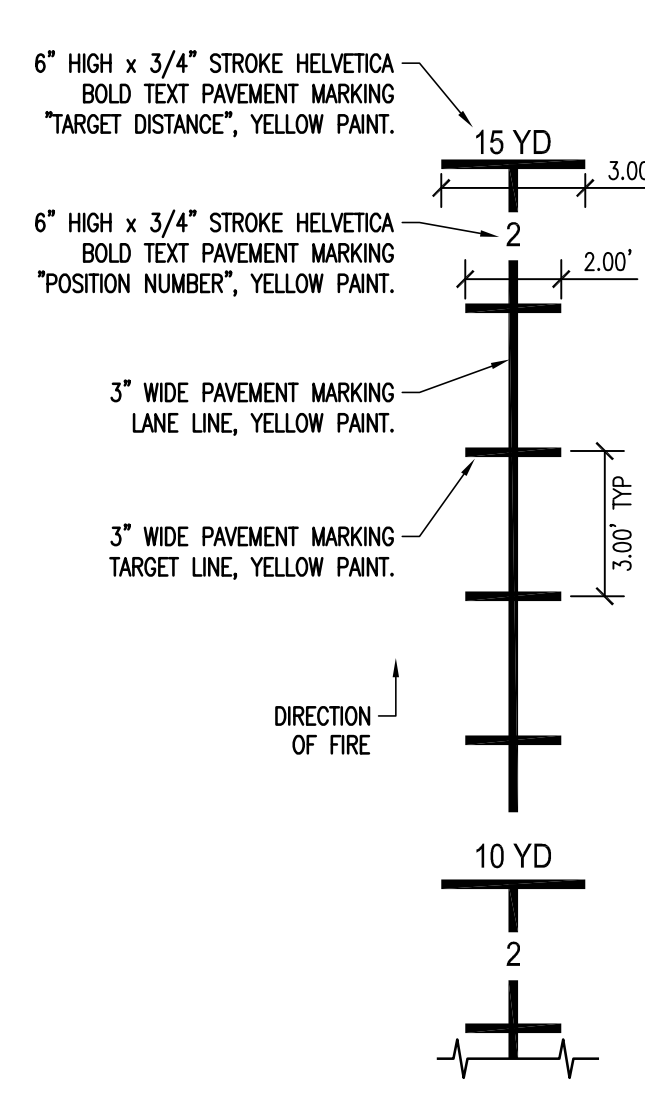
1A Wood Fence w/ Steel Posts Detail
Scale: 1/2" = 1'-0"



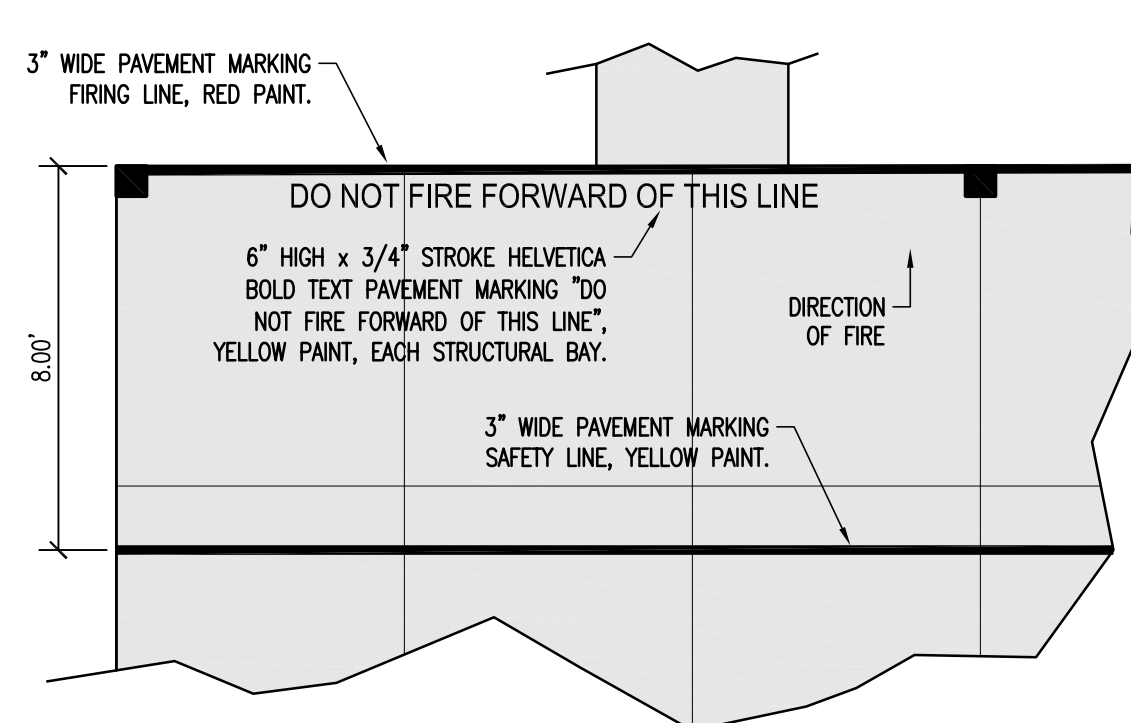
3B Shotgun Trap Range Handicap Ladder
N.T.S.



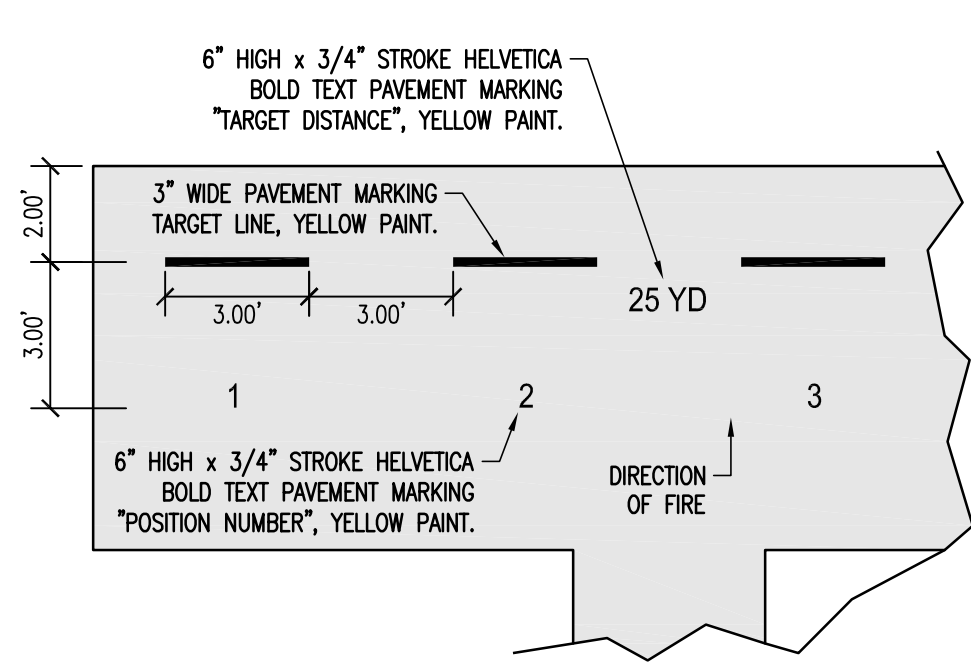
3A Archery Range Shooting Position
N.T.S.



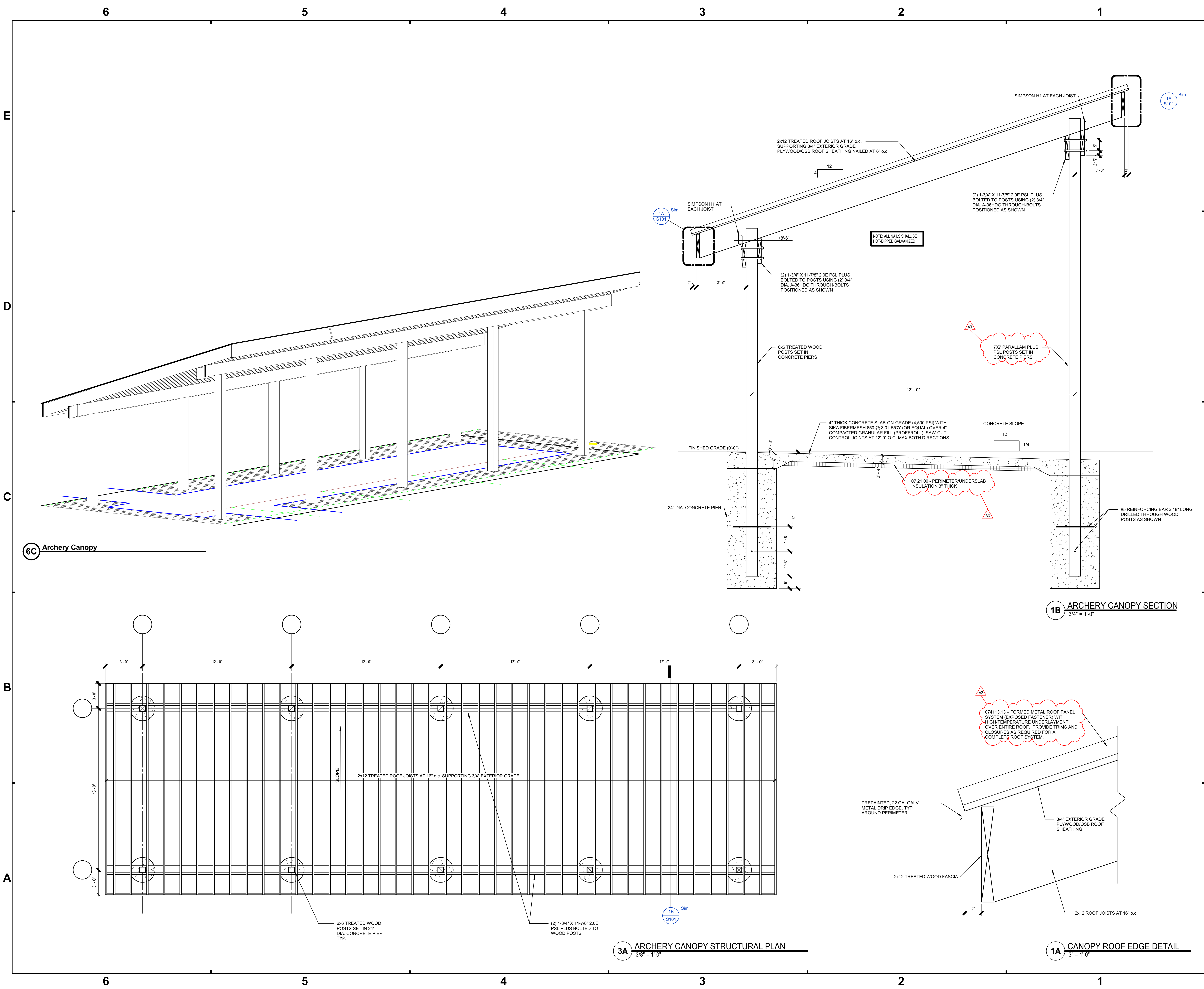
4B Pistol Range Target Ladder
N.T.S.



4A Rifle/Pistol Range Shooting Position
N.T.S.



5A Rifle/Pistol Range Target Position
N.T.S.



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#	Revision	Date
A2	Addendum 2	12.15.2023
A3	Addendum 3	12.21.2023

kramer one inc.
ARCHITECTURE & PLANNING

58 Fish and Game Road
Fryeburg, ME 04037

KEY PLAN

MAINE DEPT. OF INLAND FISHERIES & WILDLIFE

Fryeburg Shooting Range

ARCHERY CANOPY STRUCTURAL PLAN

S101



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kramer
ARCHITECTURE
& PLANNING **one** inc.

KEY PLAN 

The logo is a shield-shaped emblem. At the top, the word "MAINE" is written in large, bold, red capital letters. Below this, the shield is divided into three sections: a moose on the left, a fish jumping out of the water in the center, and a bird in flight on the right. The background of the shield is a landscape with a green hill, a blue sky with white clouds, and a blue body of water. The words "DEPT. OF INLAND FISHERIES AND WILDLIFE" are written in red capital letters along the bottom and sides of the shield.

RIFLE CANOPY PLAN & SECTION

S102



1B RIFLE CANOPY SECTION

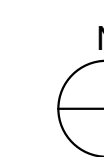




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KEY PLAN



The logo is a shield-shaped emblem. At the top, the word "MAINE" is written in large, bold, red capital letters with a black outline. Below this, the shield is divided into three horizontal sections. The top section shows a moose standing in a field. The middle section shows a large evergreen tree. The bottom section shows a fish jumping out of the water. The entire shield is bordered by a black line. Along the left border, the text "DEPT. OF INLAND" is written in white capital letters. Along the right border, the text "FISHERIES AND WILDLIFE" is written in white capital letters.

PISTOL CANOPY PLAN & SECTION

S103



132 POLICE CHIEF PLAN & SECTION
2019-11-17 PM, MAIR DEPT. OF INLAND FISHERIES & WILDLIFE, Frydberg Stenning Range, 80% PD Set N64 Per Construction
11_Swedish2019-11-17 PM, MAIR DEPT. OF INLAND FISHERIES & WILDLIFE, Frydberg Stenning Range, 80% PD Set N64 Per Construction
2019-11-17 PM, MAIR DEPT. OF INLAND FISHERIES & WILDLIFE, Frydberg Stenning Range, 80% PD Set N64 Per Construction

DOOR & FRAME SCHEDULE																	
MARK	TYPE	QTY	DOOR PANEL				SIZE			FRAME			LABEL	HDWR SET	NOTES	MARK	Comments
			MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ							
A101B	F	1	HM	--	7'-0"	3'-0"	0'-1 3/4"	F1	HM	--		1			A101B	1	
A101A	F	1	HM	--	7'-0"	3'-0"	0'-1 3/4"	F1	HM	--		1			A101A	1	

GENERAL NOTES

A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed tile or saddle openings). Should any particular door, frame, or interior borrowed tile or saddle shown on the Drawings be inadvertently omitted from this Schedule, supply same as required for similar openings.

B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the leaves shall equally divide the "Door Width" unless noted otherwise; however, the active leaf shall not be less than 3'-0" wide.

C. Door Type "X" denotes a frame with no door such as a borrowed tile, reference Frame Elevations.

D. An asterisk (*) in a dimension denotes a width that varies, reference plans, elevations, details and schedules.

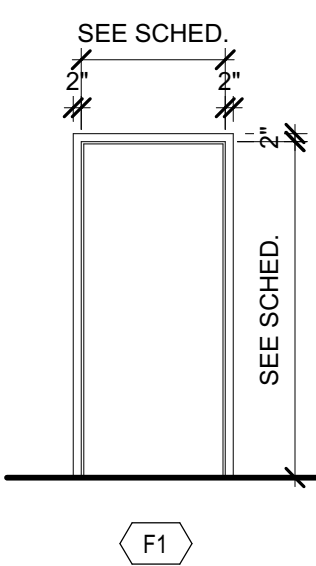
E. Verify locksets with the Owner during submittals.

ABBREVIATIONS

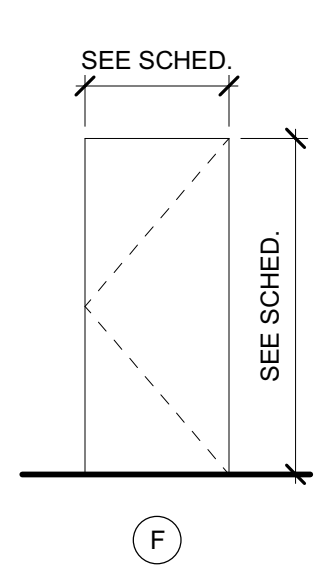
AL Aluminum
HM Hollow Metal
ST Steel
WD Wood
TG Tempered Glazing
IG Insulated Glazing
LGI Laminated Glazing
FG Frosted Glazing
SP Spandrel Panel

DOOR & FRAME SCHEDULE NOTES
See Door Schedule

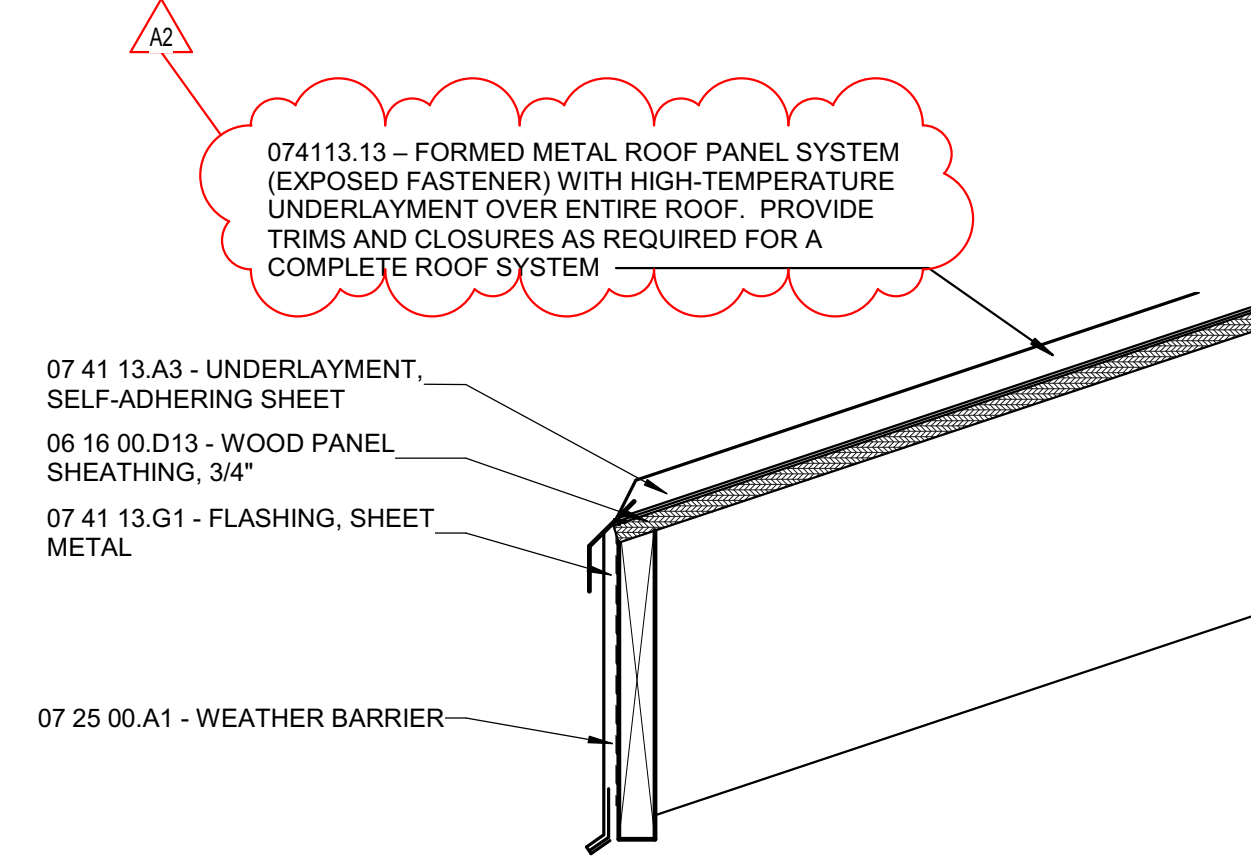
- Existing door and frame to remain. New hardware only. Field verify all existing door and frame information as required for installation of new hardware.
- New door/frame in existing masonry wall. Tooth in new masonry into existing as required.
- Set door in frame to allow for 180° door swing.



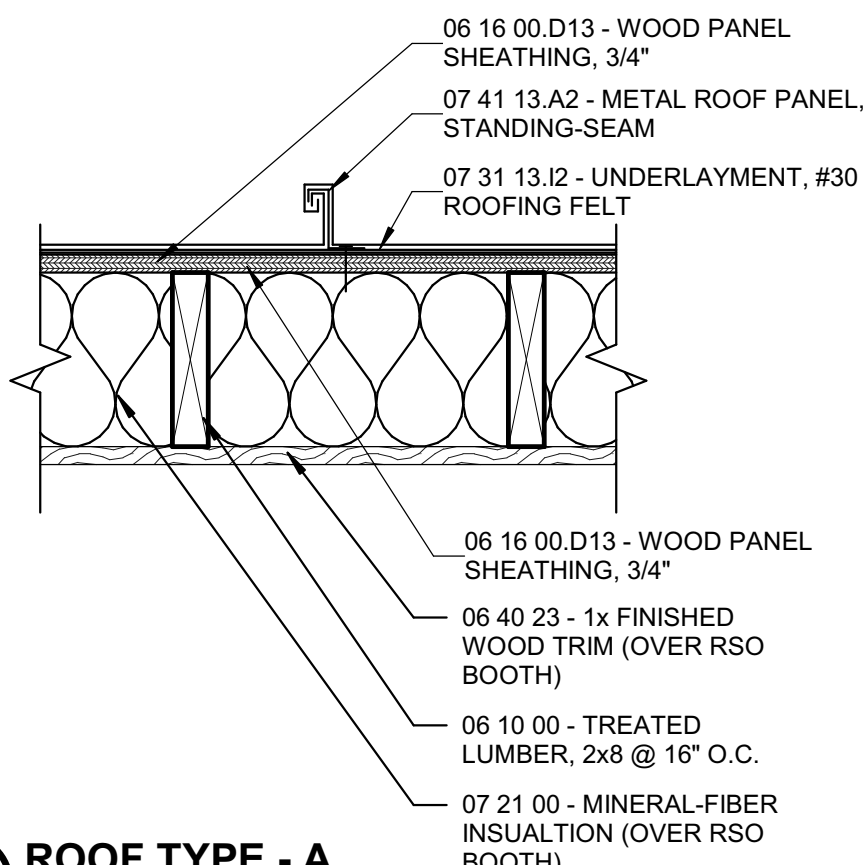
5.4.603 - FRAME ELEVATIONS
1/4" = 1'-0"



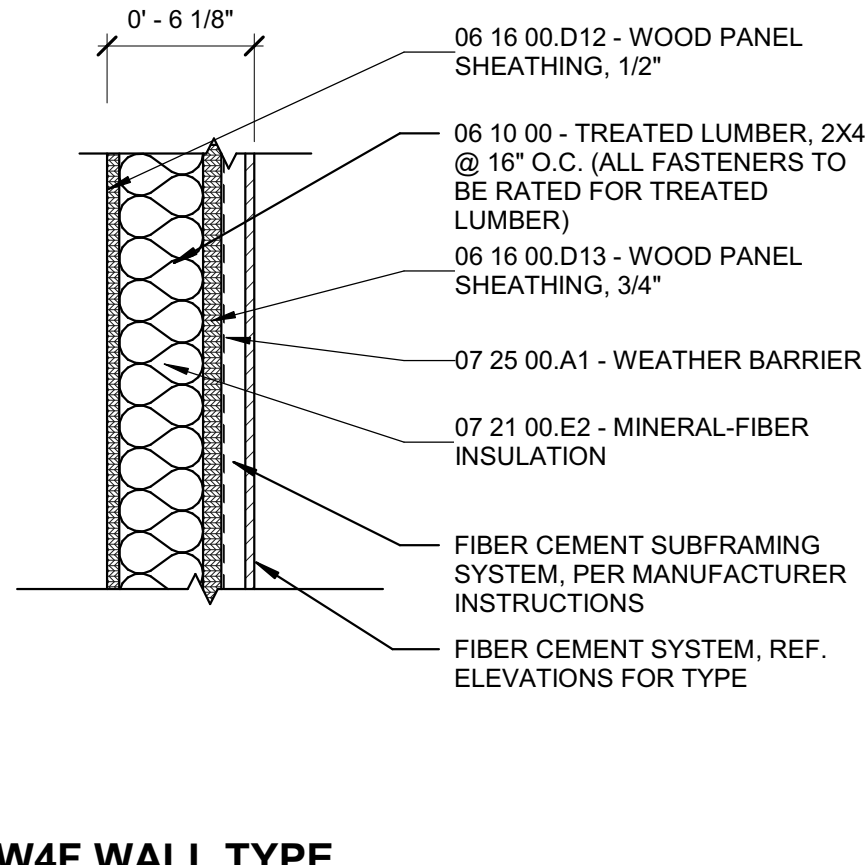
5.4.602 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"



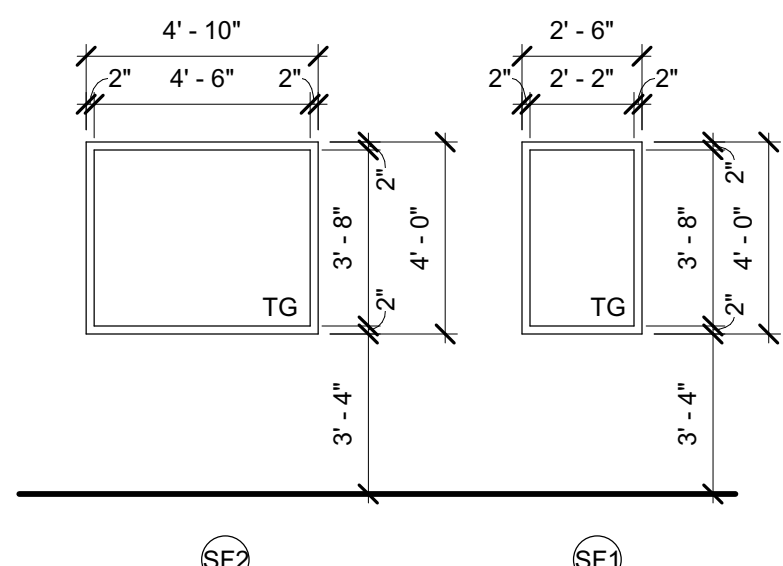
1E RSO OFFICE ROOFING DETAIL
1 1/2" = 1'-0"



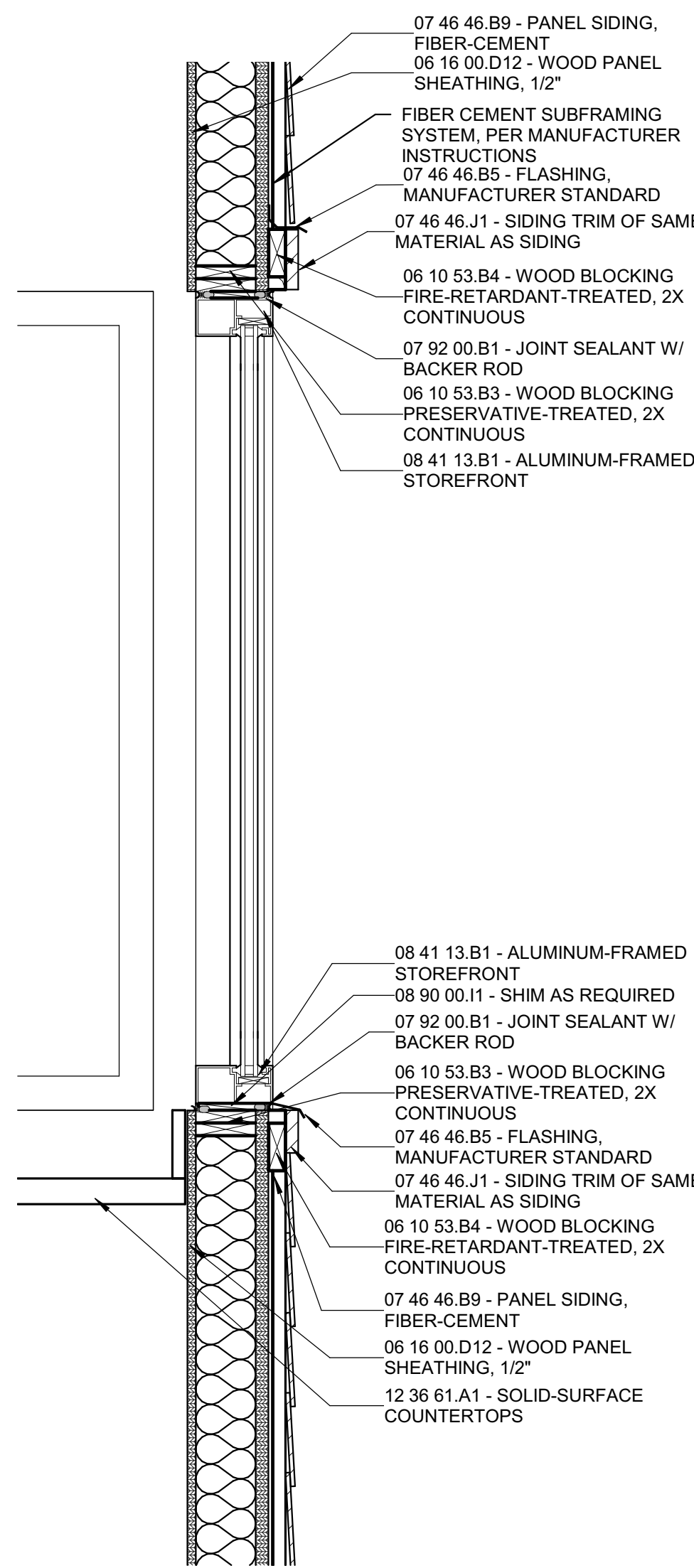
6D ROOF TYPE - A
1 1/2" = 1'-0"



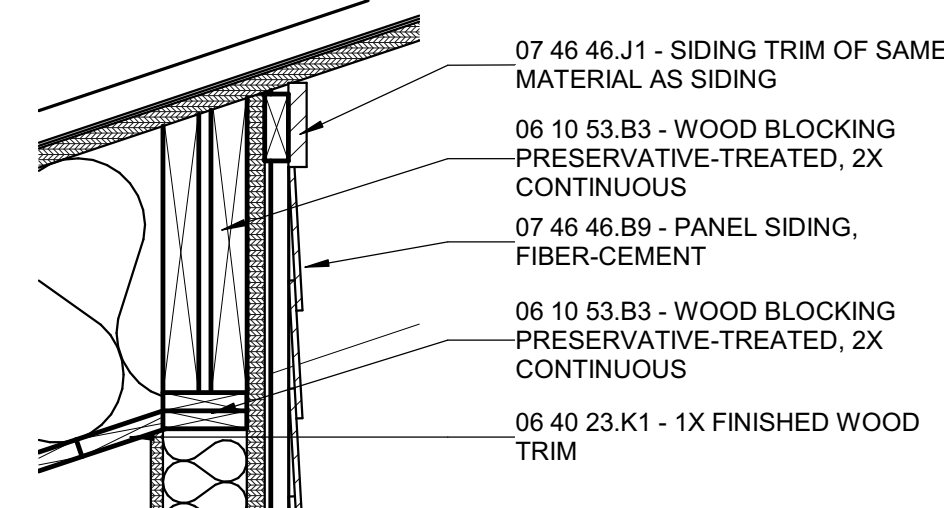
5D EW4F WALL TYPE
1 1/2" = 1'-0"



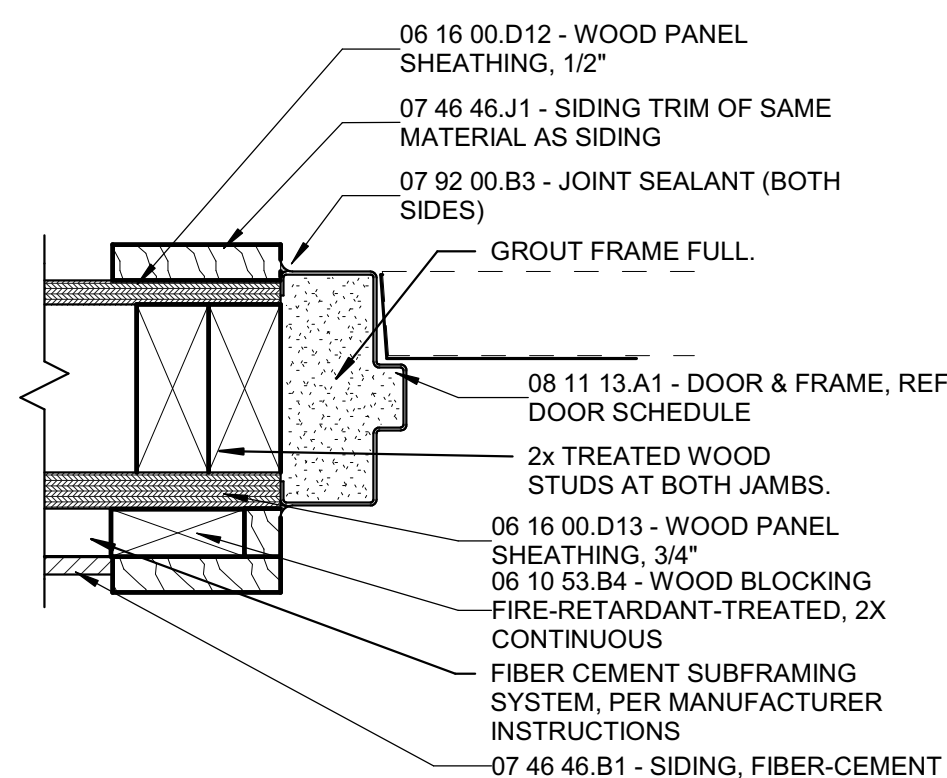
5.4.602 - WINDOW ELEVATIONS
1/4" = 1'-0"



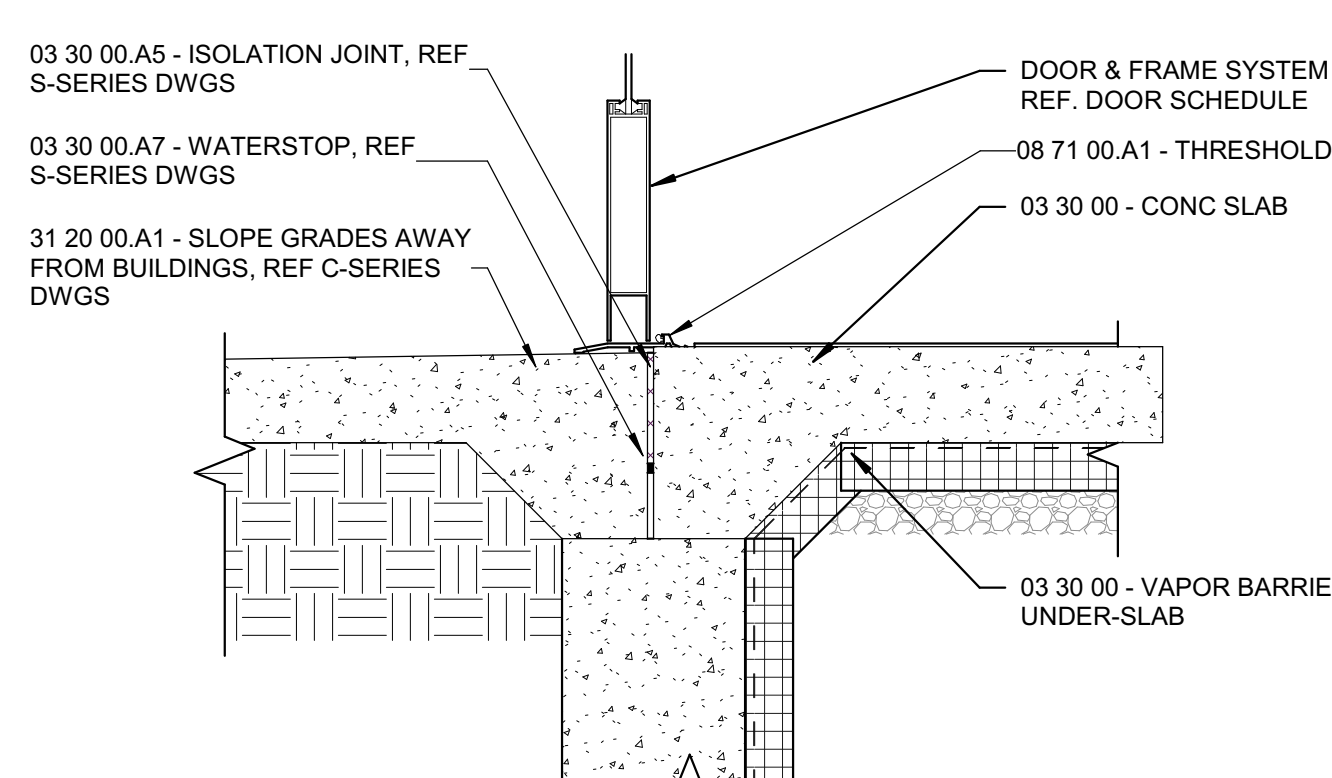
3C RSO OFFICE OPENING DETAIL
1 1/2" = 1'-0"



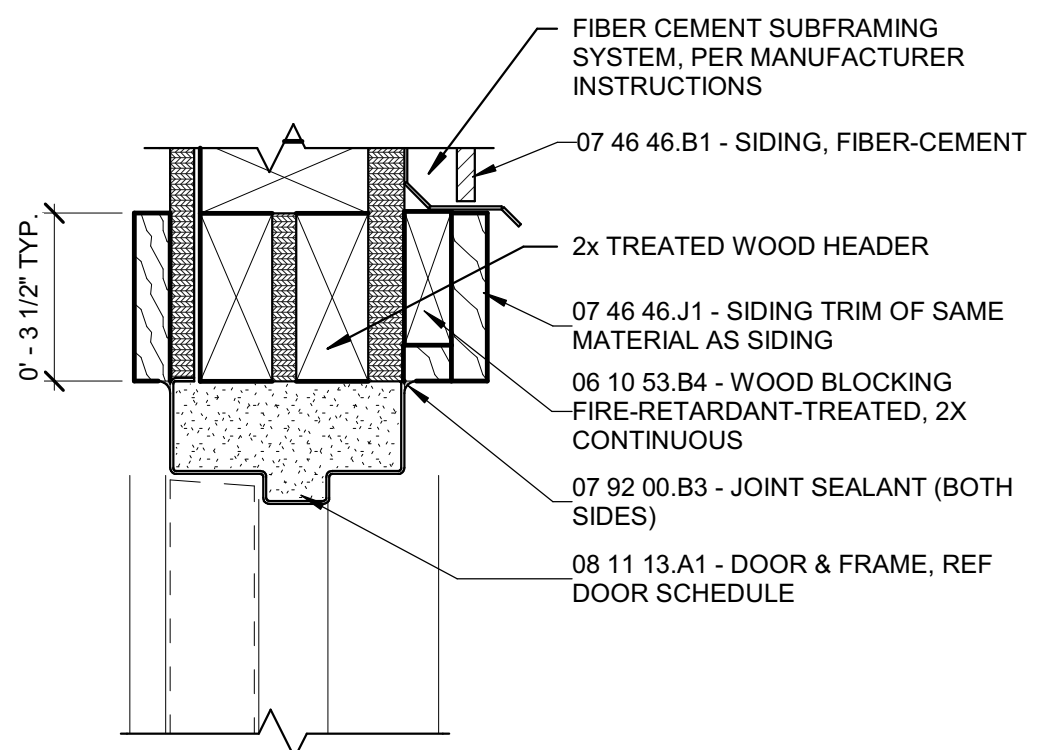
1D DETAIL
1 1/2" = 1'-0"



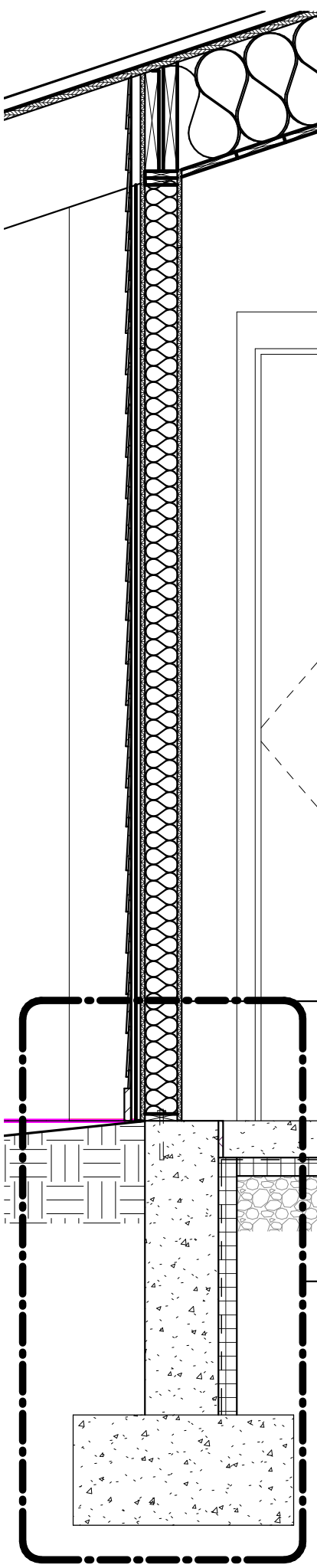
6C Door - Typical - Jamb
3" = 1'-0"



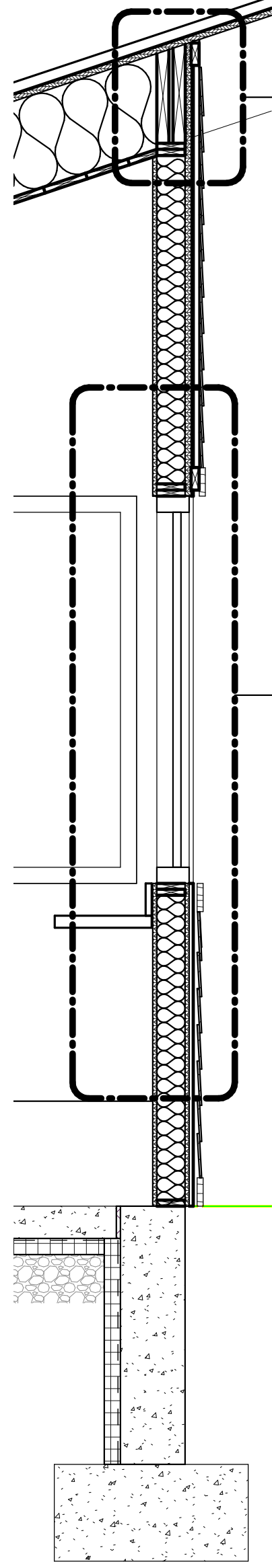
5C FOUNDATION - THRESHOLD
1 1/2" = 1'-0"



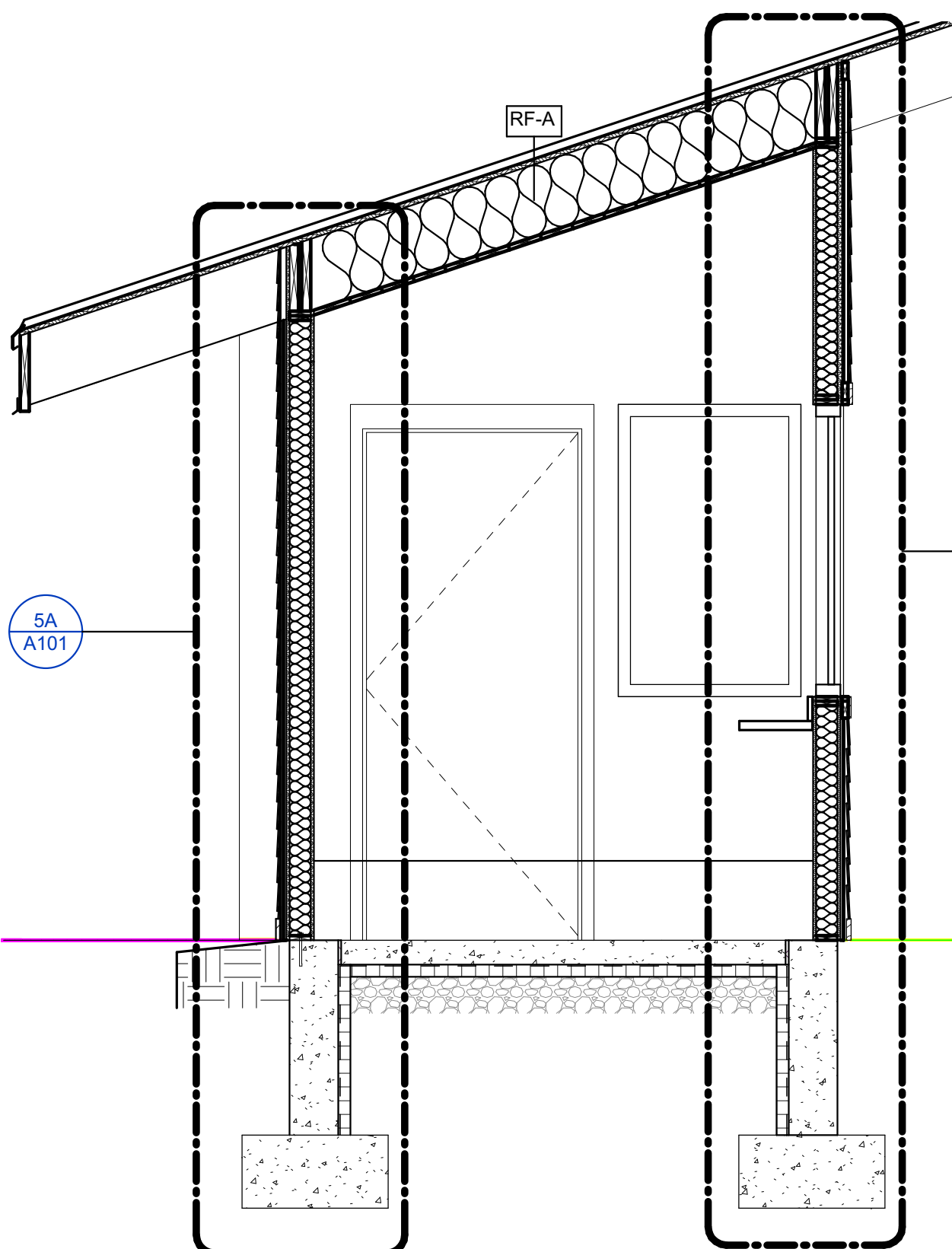
6B Door - Typical - Head
3" = 1'-0"



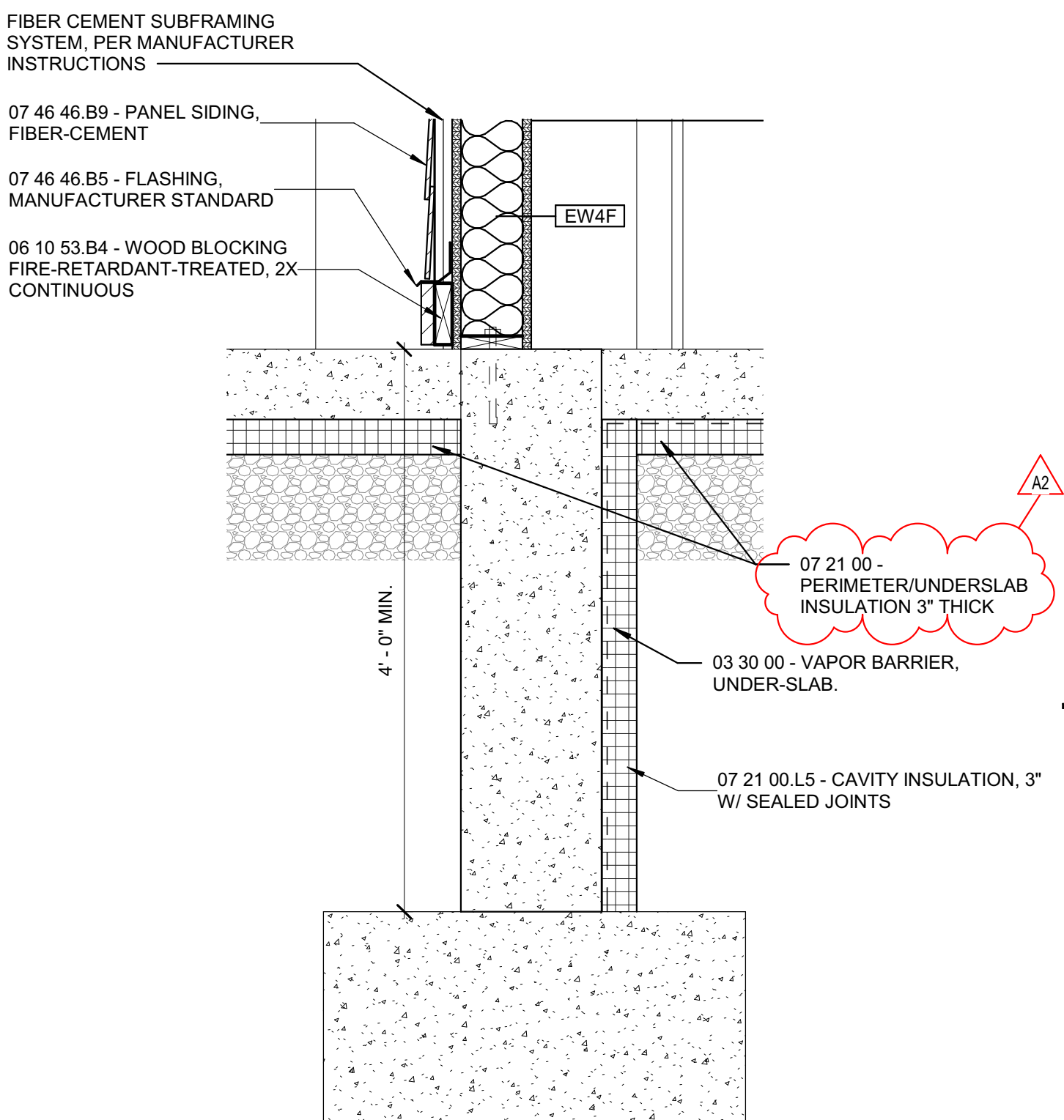
5A WALL SECTION
3/4" = 1'-0"



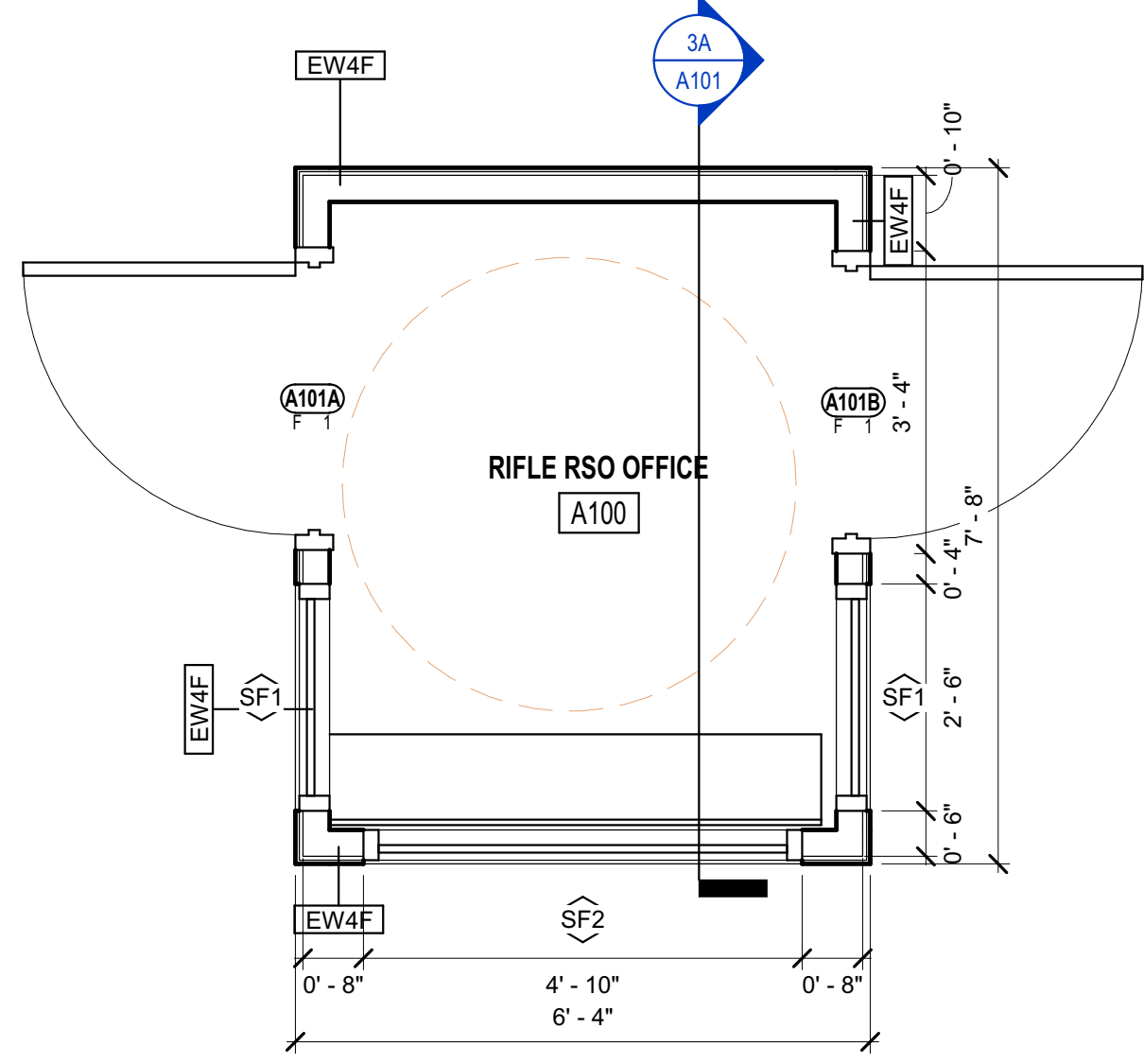
4A WALL SECTION
3/4" = 1'-0"



3A RSO OFFICE SECTION
1/2" = 1'-0"



1B RSO OFFICE FOUNDATION DETAIL
1 1/2" = 1'-0"



1A RIFLE/PISTOL RSO FLOOR PLAN
1/2" = 1'-0"



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#	Revision	Date
A2	Addendum 2	12.15.2023



58 Fish and Game Road
Fryeburg, ME 04037

KEY PLAN

MAINE DEPT. OF
INLAND FISHERIES
& WILDLIFE



Fryeburg Shooting
Range

RSO OFFICE

A101