

WORRY FREE ALASKA, LLC

DIVISION OF NATURAL RESOURCES (DNR) BUILDING

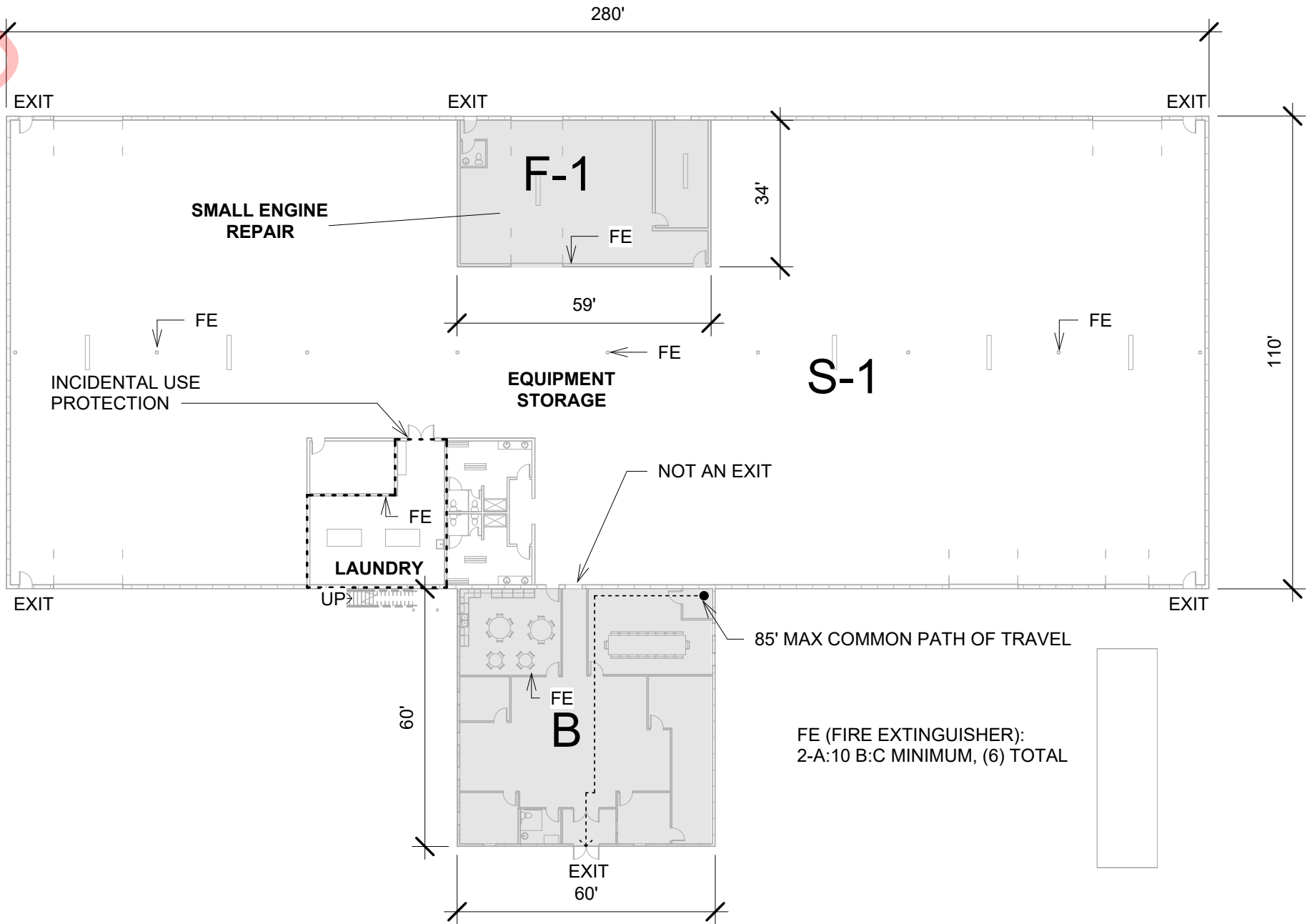
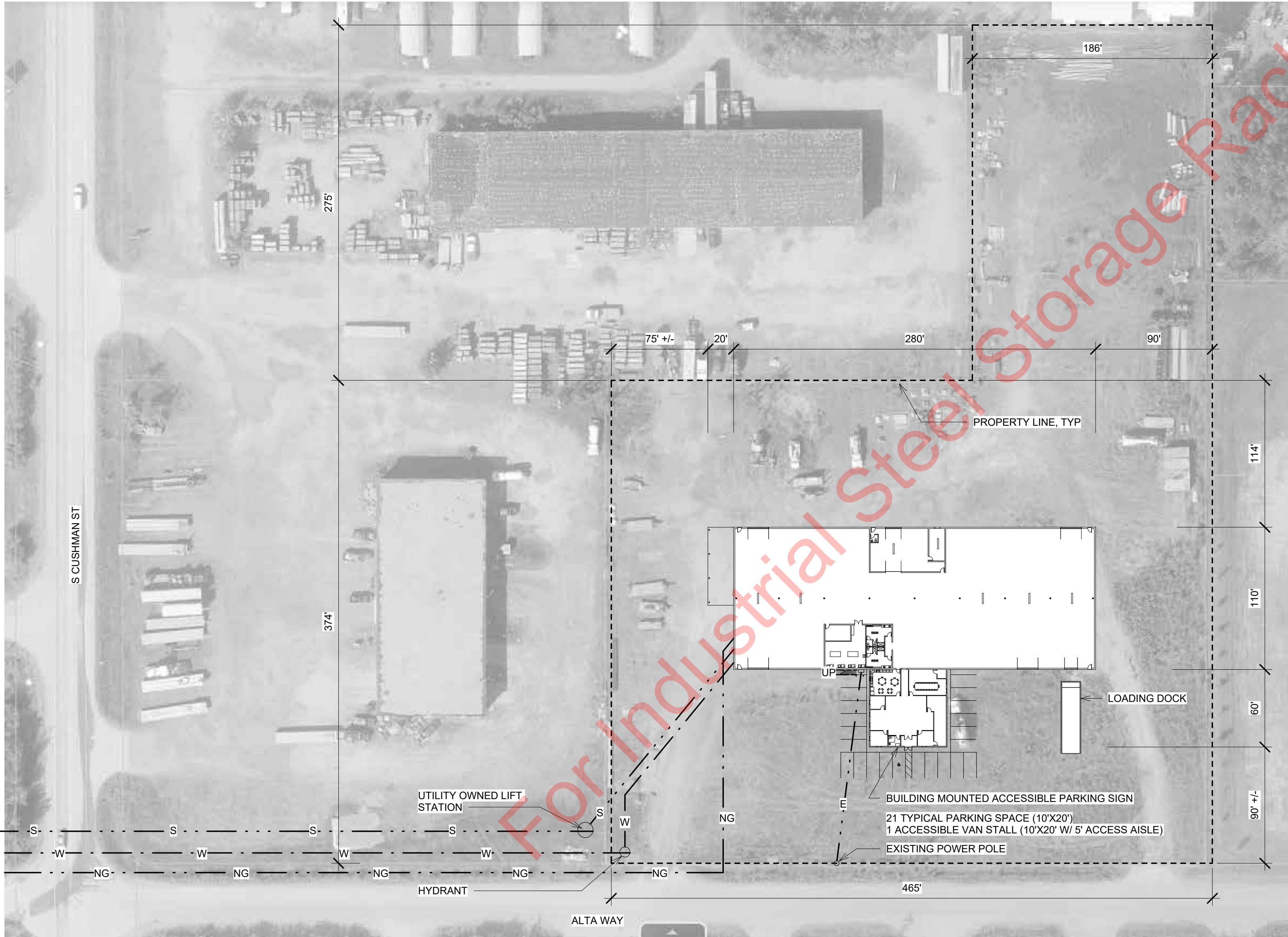
PERMIT DOCUMENTS

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PROJECT DESCRIPTION

THE PROJECT IS AN APPROXIMATELY 30,800 SF WAREHOUSE FOR STORAGE AND MAINTENANCE OF WILDLAND FIREFIGHTING EQUIPMENT. THERE IS AN ATTACHED APPROXIMATELY 3,600 SF OFFICE SPACE. THIS PERMIT SET DATED 5/9/2025 INCLUDES ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR THE PURPOSES OF OBTAINING A BUILDING PERMIT. ALL OTHER DESIGN/ENGINEERING SERVICES TO INCLUDE MECHANICAL AND ELECTRICAL TO BE PROVIDED BY OTHERS.



2 CODE PLAN
1/32" = 1'-0"

BUILDING CODE ANALYSIS

THE PROJECT: DIVISION OF NATURAL RESOURCES (DNR) BUILDING
LOCATION: 210 ALTA WAY, FAIRBANKS, ALASKA
AUTHORITY HAVING JURISDICTION: CITY OF FAIRBANKS
APPLICABLE BUILDING CODE: FAIRBANKS GENERAL CODE, CHAPTER 10 - ALL REFERENCE SECTIONS REFER TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) UNLESS NOTED OTHERWISE

Chapter 3 - Occupancy Classification and Use:
Equipment Storage S-1
Small Engine Workshop F-1 (Accessory)
Offices B

Chapter 5 - Occupancy Classification and Use:
• Non-Separated Mixed Use
• Automatic Fire Suppression: Yes
• Construction Type: VB
• Allowable Area/Height/Stories: Most restrictive occupancy Per 508.3.2
• Actual/Allowable Height (ref Table 504.3): 30'/60'
• Actual/Allowable Stories: 2/3
• Allowable Area: Unlimited per 507.5
• Actual Area: 34,340
• Incidental Use (ref Table 509): Boilers > 400mbtu/h & Laundry Room, sprinkler protection and smoke tight construction required

Chapter 9 - Fire Protection and Life Safety Systems
• Automatic Sprinkler System: For construction type and occupancy group, building area exceeded for non-sprinklered building - sprinkler protection required.

Chapter 10 - Means of Egress:
• Number of Exits: First story requires two exits minimum due to exceeding maximum common path of travel distances. Offices comply with Table 1006.2.1 for areas with access to one exit.
• Exit Access Travel Distance (ref Table 1017.2): S-1, 250'
• Max Common Path of Travel(ref Table 1006.2.1 & 1006.3.3(2)): 100'

Parking
• Office - 1 space per 300 SF, 12 spaces required
• Warehouse - 3 spaces per 4 employees: 12 employees (assumed) 8 spaces required
• 20 spaces required, 1 accessible

Shilling Architect

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210 ALTA WAY
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REVISIONS		
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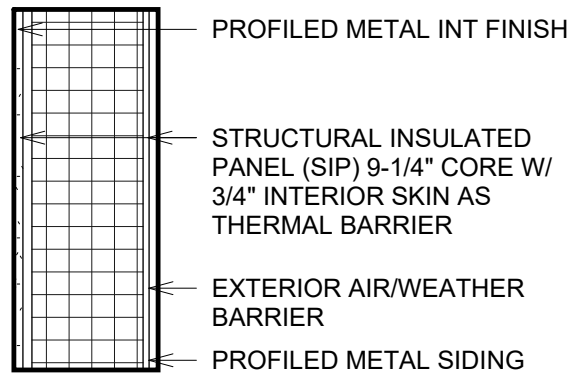
COVER / SITE / CODE

A001

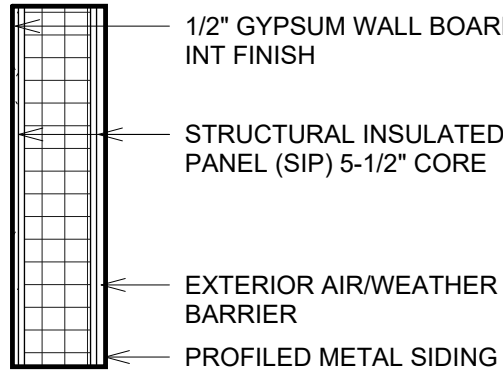
1 SITE PLAN
1" = 60'-0"

3 CODE ANALYSIS
12" = 1'-0"

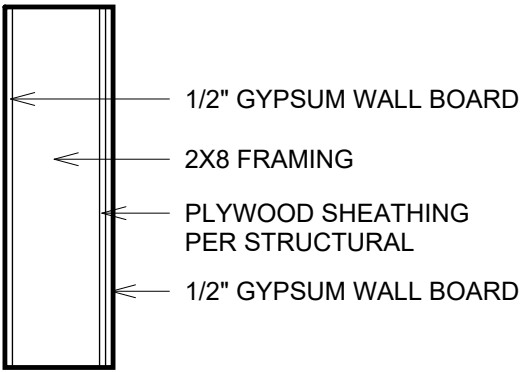
ASSEMBLIES



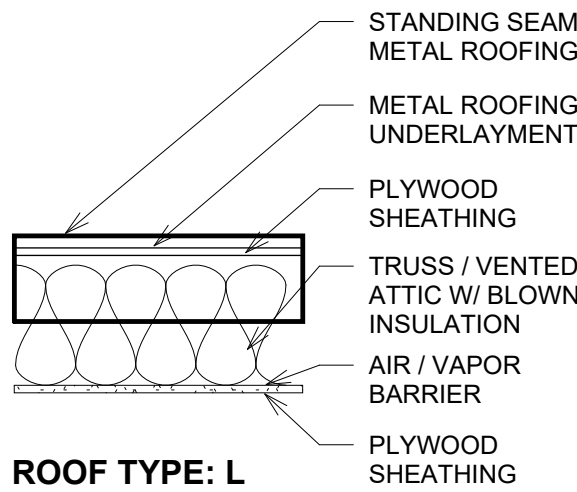
WALL TYPE: A



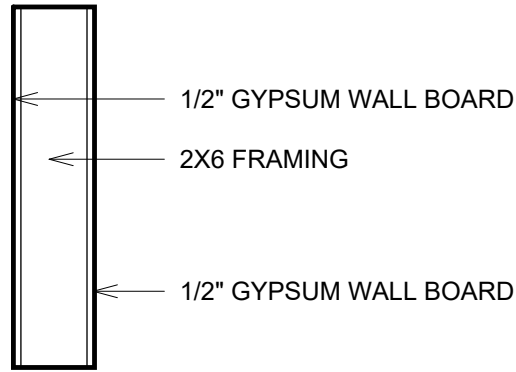
WALL TYPE: B



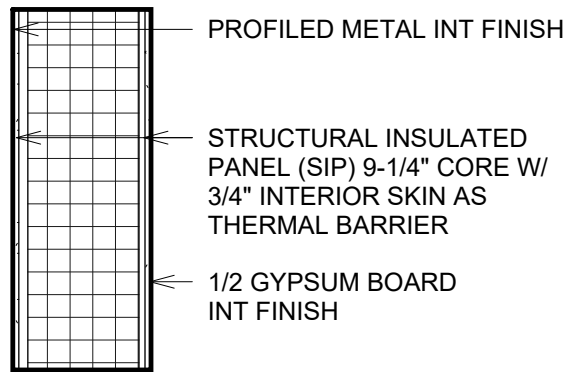
WALL TYPE: C



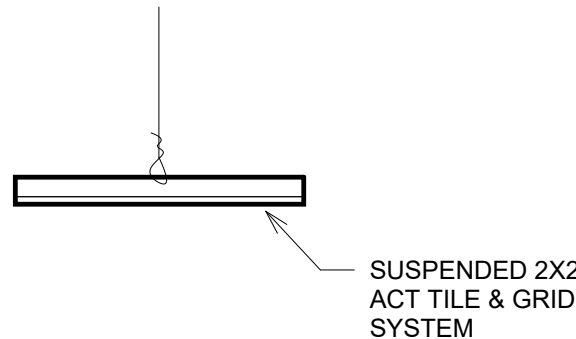
ROOF TYPE: L



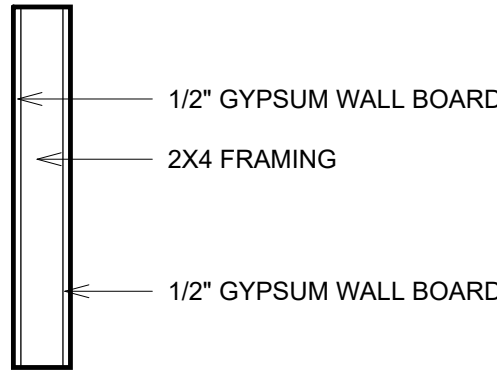
WALL TYPE: D



WALL TYPE: A.2



CEILING TYPE: Y



WALL TYPE: E

ROOM SCHEDULE					
NAME	WALL FINISH	FLOOR FINISH	CEILING FINISH	BASE FINISH	COMMENTS

TRAINING	PNT-1	CPT	ACT	RB	
LAUNDRY	PNT-1, MTS	CNC	PNT-1	RB	
MED STORAGE	PNT-1	CNC	PNT-1	RB	
WOMEN'S	PNT-1	CNC	PNT-1	RB	
MEN'S	PNT-1	CNC	PNT-1	RB	
KITCHEN / BREAK	PNT-1	LVP	ACT	RB	
OPEN OFFICE	PNT-1	LVP	ACT	RB	
STORAGE	PNT-1	CNC	PNT-1	RB	
OFFICE 3	PNT-1	CPT	ACT	RB	
VESTIBULE	PNT-1	LVP	ACT	RB	
TOILET	PNT-1	CNC	ACT	RB	
OFFICE 2	PNT-1	CPT	ACT	RB	
OFFICE 1	PNT-1	CPT	ACT	RB	
COMM	PNT-1	CNC	PNT-1	RB	
SMALL ENGINE REPAIR	PNT-1, MTS	CNC	PNT-1	RB	
SOUND PROOF ROOM	PNT-1, MTS	CNC	PNT-1	RB	
SHOP TOILET	PNT-1	CNC	PNT-1	RB	
EQUIPMENT STORAGE	MTS	CNC	PNT-1	RB	
COVERED STORAGE	MTS	CNC	N/A	RB	
MECH / ELEC	MTS	PLYWOOD	PNT-1	RB	

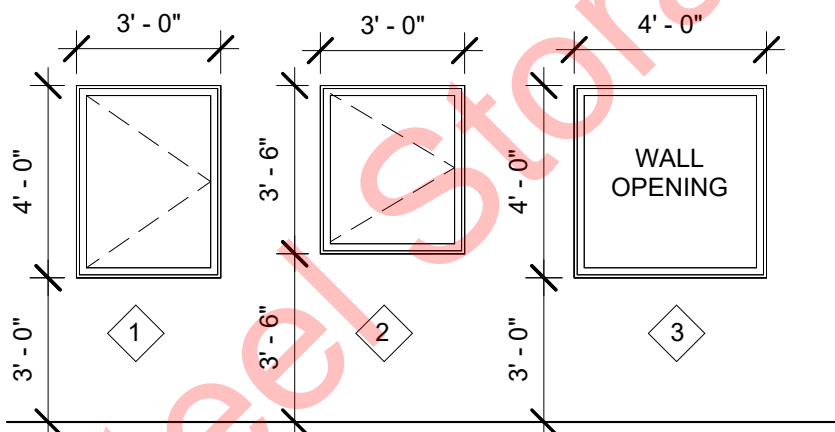
FINISH & MATERIAL LEGEND

EXTERIOR

MTS METAL SIDING | PROFILED METAL SIDING | 26 GA | COLOR: TBD
MTR METAL ROOFING | STANDING SEAM - SNAP SEAM | 24 GA | COLOR: TBD
MTV VENTED METAL SOFFIT | 26 GA | COLOR: TBD

INTERIOR

PNT-1 PAINT | INTERIOR LATEX | COLOR: TBD
RB RUBBER BASE | MAKE | MODEL | COLOR: TBD
SV SHEET VINYL | W/ COVED BASE | MAKE | MODEL | COLOR: TBD
SS SOLID SURFACE | MAKE | MODEL | COLOR: TBD
HM HOLLOW METAL | PAINTED | DOORS AND FRAMES
IHM INSULATED HOLLOW METAL | PAINTED | DOORS AND FRAMES
TPT TOILET PARTITION | SOLID SURFACE | W/ ADA TOE CLEARANCE TO 78" AFF | COLOR: TBD



WINDOW TYPES

1/4" = 1'-0"

WINDOW SCHEDULE	
#	SIZE

1	36" x 48"
1: 9	
2	36" x 42"
2: 1	
3	48" x 48"
3: 1	

DOOR SCHEDULE			
#	WIDTH	HEIGHT	COMMENTS

101	6' - 0"	7' - 0"	EXTERIOR
102	6' - 0"	7' - 0"	
103	3' - 0"	7' - 0"	
104	3' - 0"	7' - 0"	
105	3' - 0"	7' - 0"	
106	3' - 0"	7' - 0"	
107	3' - 0"	7' - 0"	
108	3' - 0"	7' - 0"	
109	3' - 0"	7' - 0"	
110	3' - 0"	7' - 0"	
111	3' - 0"	7' - 0"	
112	3' - 0"	7' - 0"	
113	3' - 0"	7' - 0"	
114	3' - 0"	7' - 0"	
115	6' - 0"	7' - 0"	
116	3' - 0"	7' - 0"	
117	3' - 0"	7' - 0"	EXTERIOR
118	3' - 0"	7' - 0"	EXTERIOR
119	3' - 0"	7' - 0"	EXTERIOR
120	3' - 0"	7' - 0"	
121	3' - 0"	7' - 0"	
122	3' - 0"	7' - 0"	
123	3' - 0"	7' - 0"	EXTERIOR
124	3' - 0"	7' - 0"	EXTERIOR
201	3' - 0"	7' - 0"	EXTERIOR

DOOR SCHEDULE - OVERHEAD			
#	WIDTH	HEIGHT	COMMENTS

OH1	16' - 0"	16' - 0"	
OH2	16' - 0"	16' - 0"	
OH3	12' - 0"	8' - 0"	
OH4	12' - 0"	8' - 0"	
OH5	16' - 0"	16' - 0"	
OH6	10' - 0"	10' - 0"	
OH7	16' - 0"	16' - 0"	

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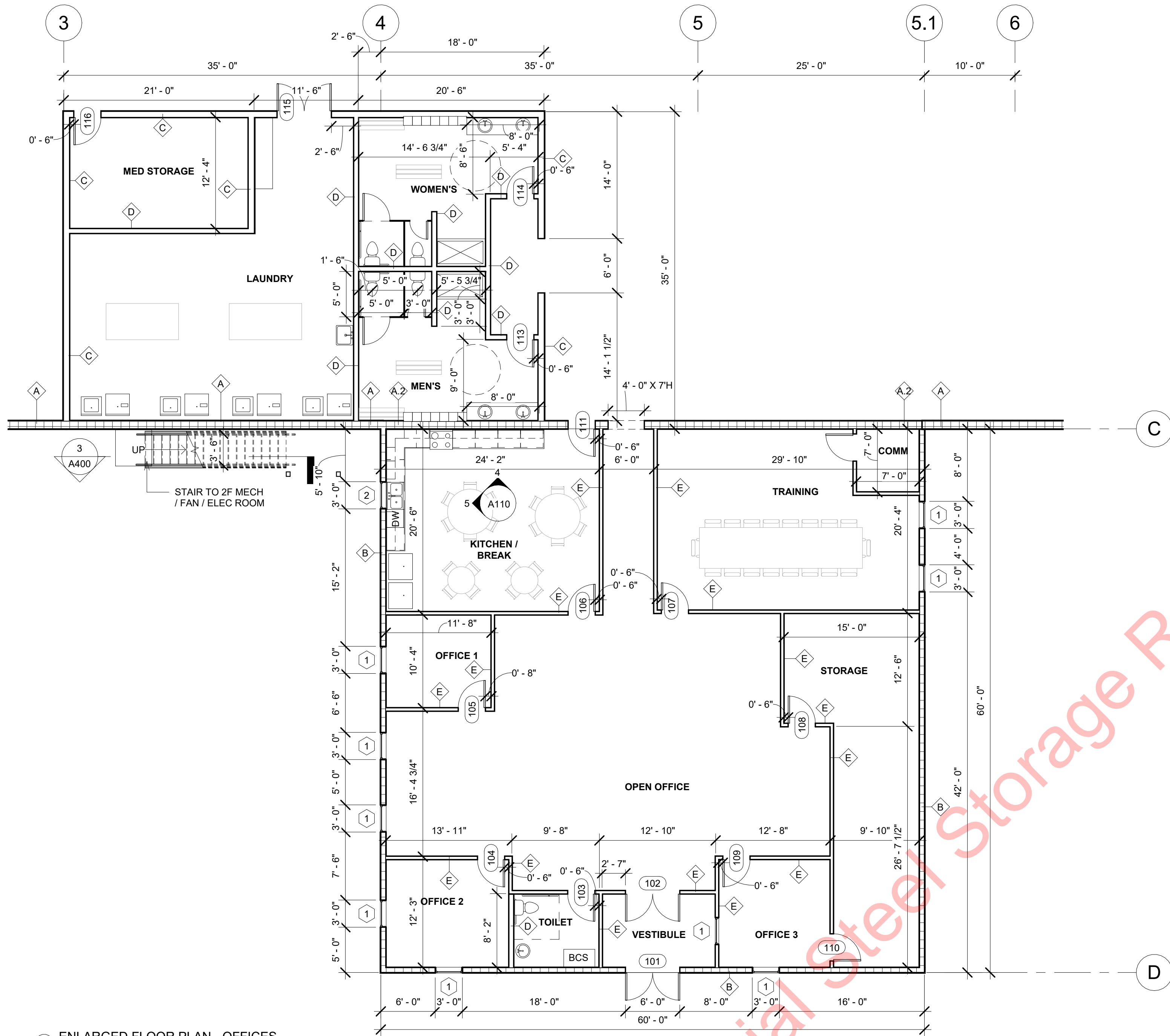
WORRY FREE ALASKA, LLC
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FAIRBANKS, ALASKA

REVISIONS

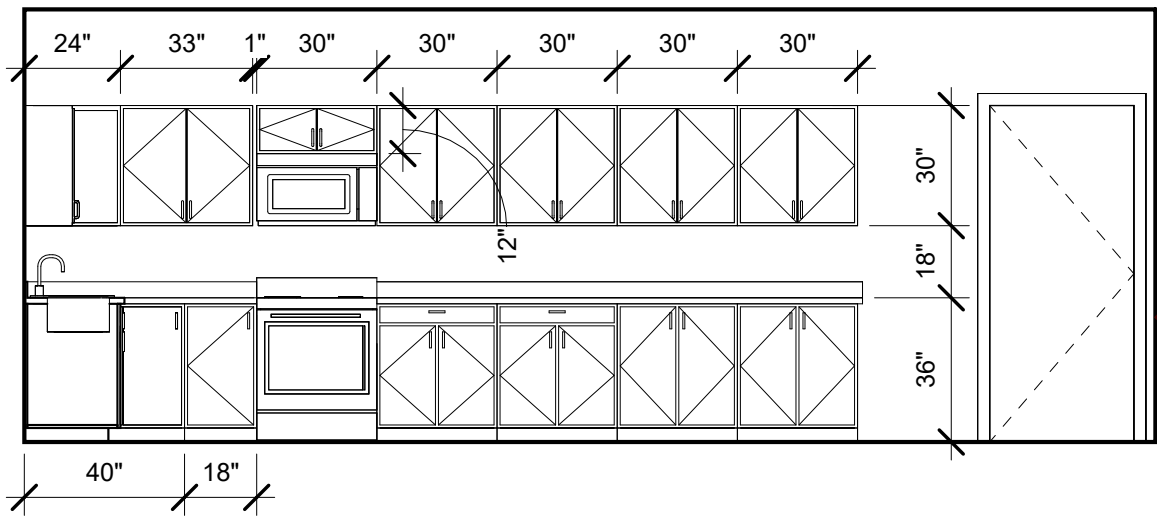
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ASSEMBLIES, TYPES
AND SCHEDULES

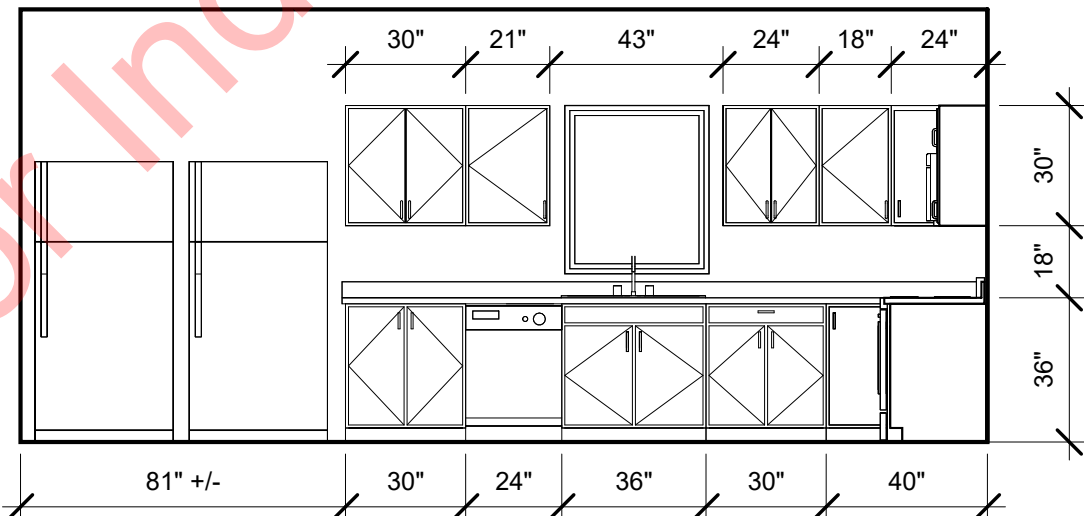
A002



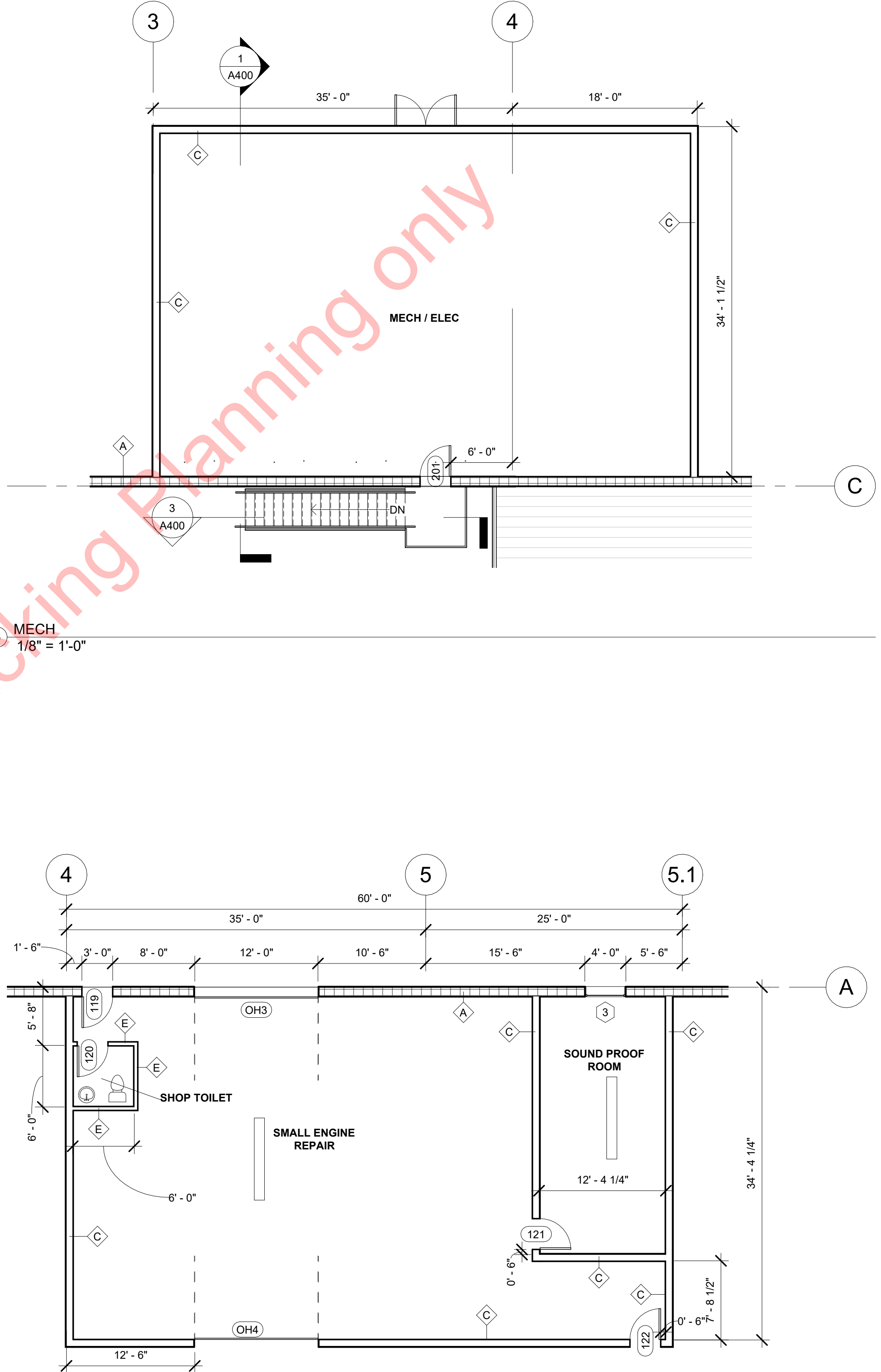
1 ENLARGED FLOOR PLAN - OFFICES
1/8" = 1'-0"



4 KITCHEN - NORTH ELEVATION
1/4" = 1'-0"



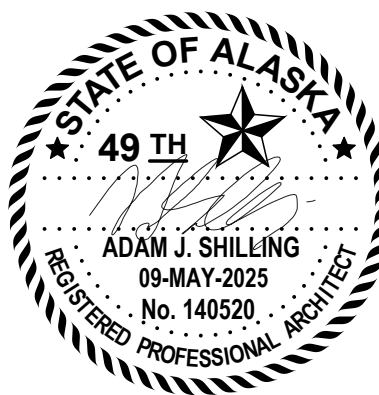
5 KITCHEN - WEST ELEVATION
1/4" = 1'-0"



2 ENLARGED FLOOR PLAN - WORKSHOP
1/8" = 1'-0"

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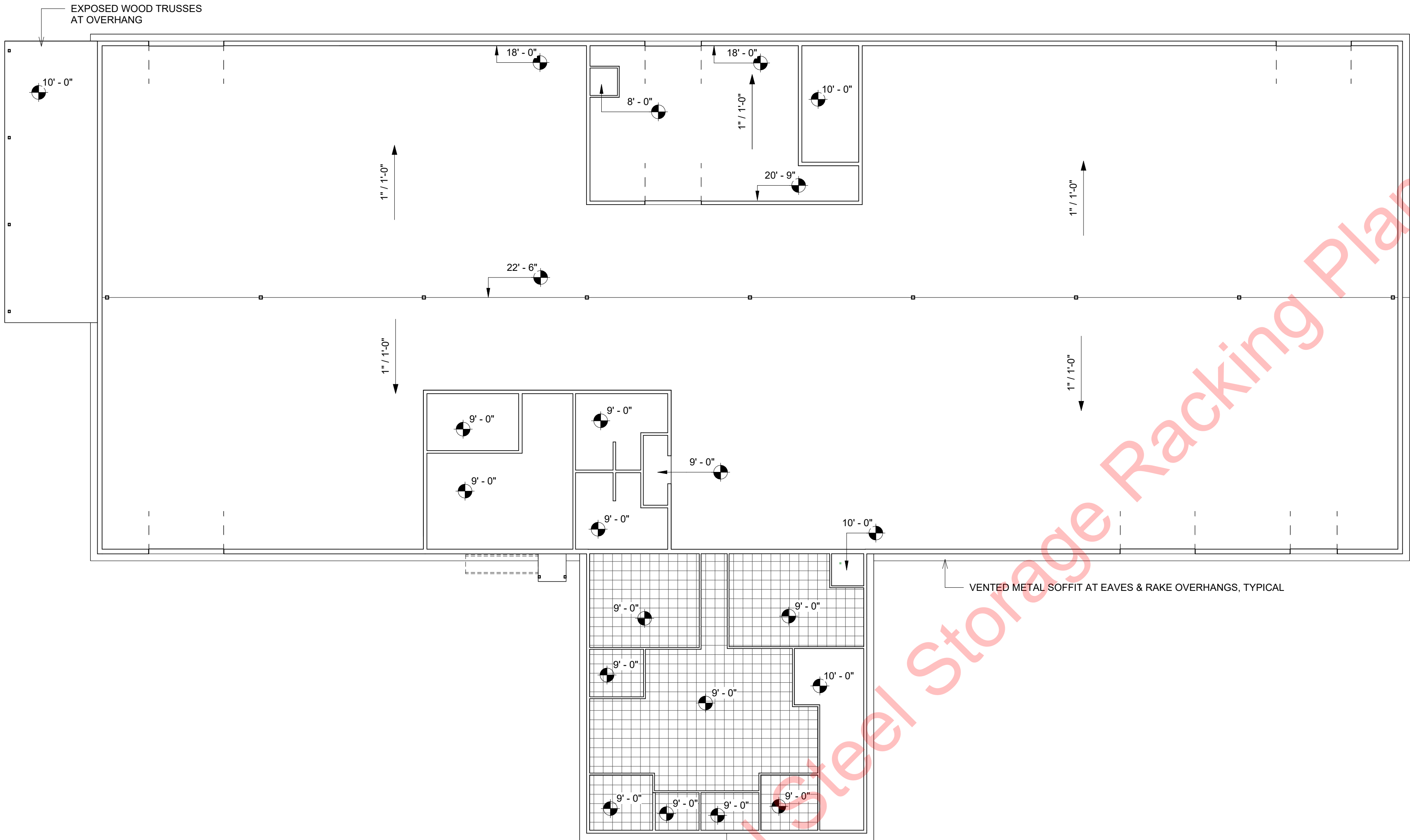
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ENLARGED FLOOR PLANS

A110



① FIRST FLOOR
1/16" = 1'-0"

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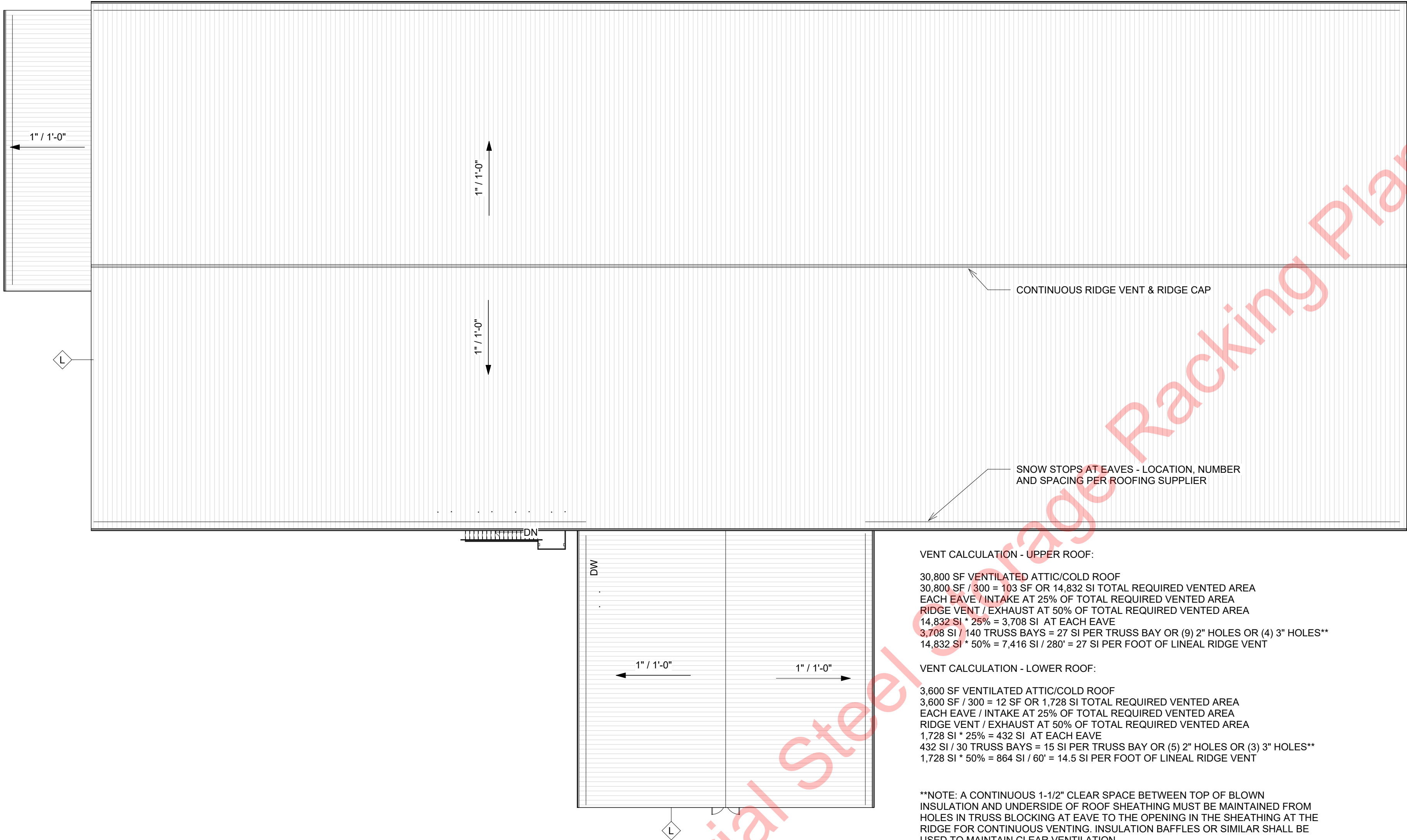
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REFLECTED CEILING
PLAN

A160



1 ROOF PLAN
1/16" = 1'-0"

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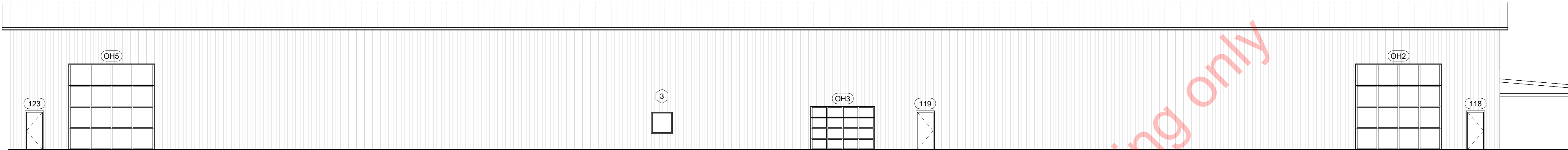
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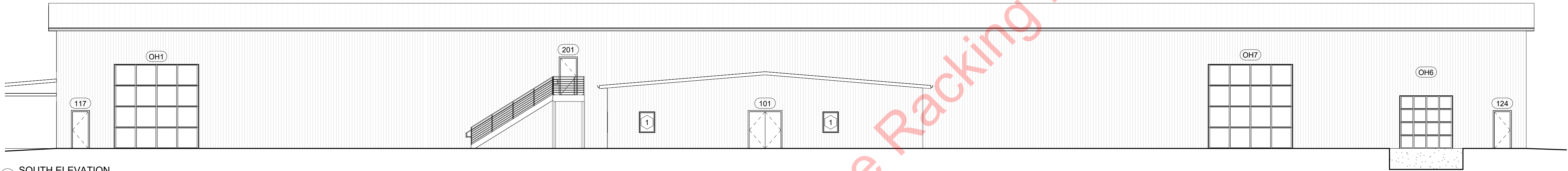
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ROOF PLAN

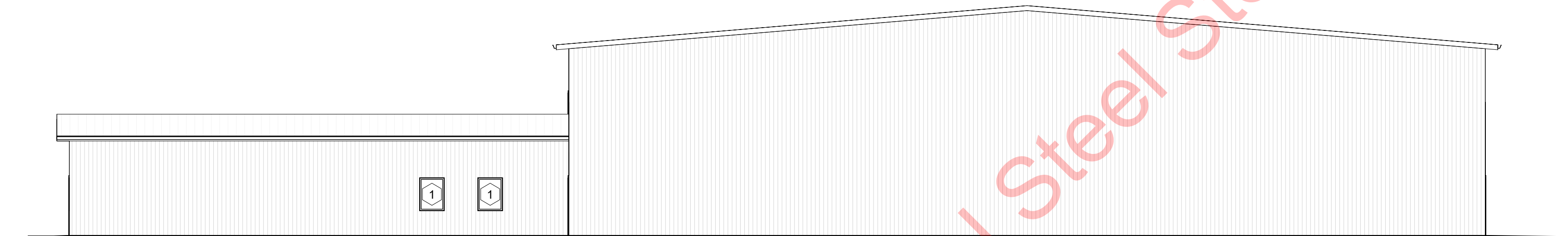
A200



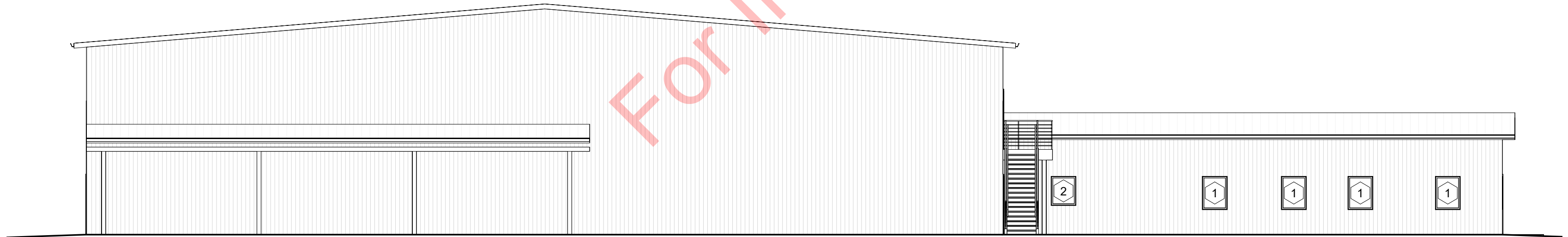
② NORTH ELEVATION
3/32" = 1'-0"



③ SOUTH ELEVATION
3/32" = 1'-0"



① EAST ELEVATION
3/32" = 1'-0"



④ WEST ELEVATION
3/32" = 1'-0"

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EXTERIOR
ELEVATIONS

A300



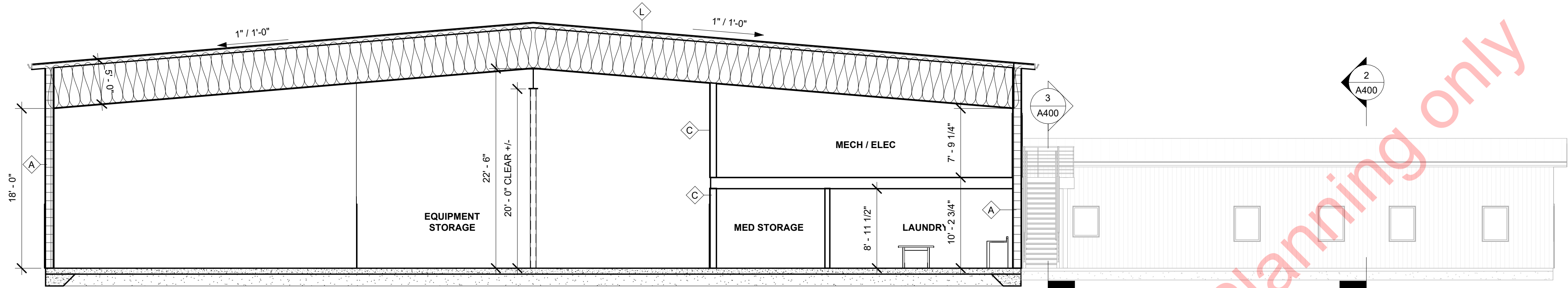
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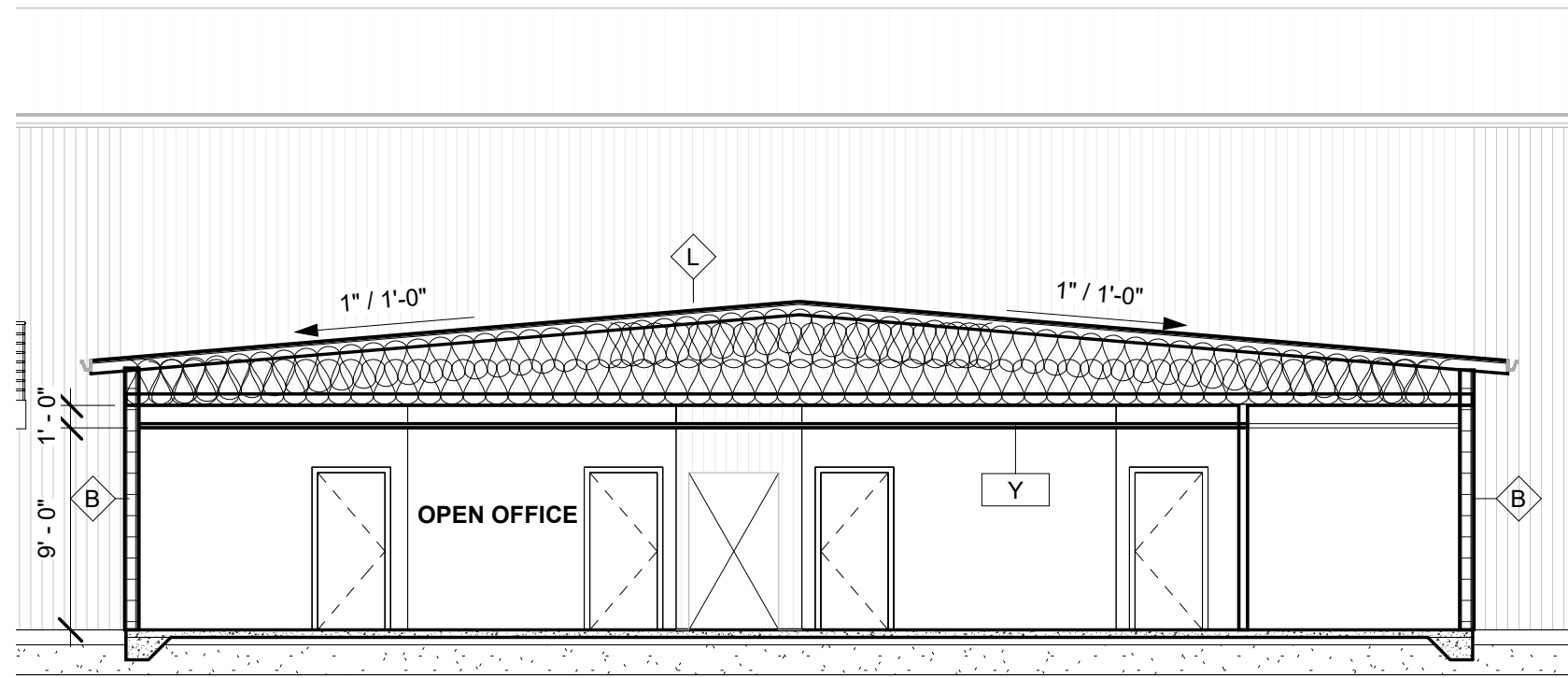
REVISIONS		
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SECTIONS

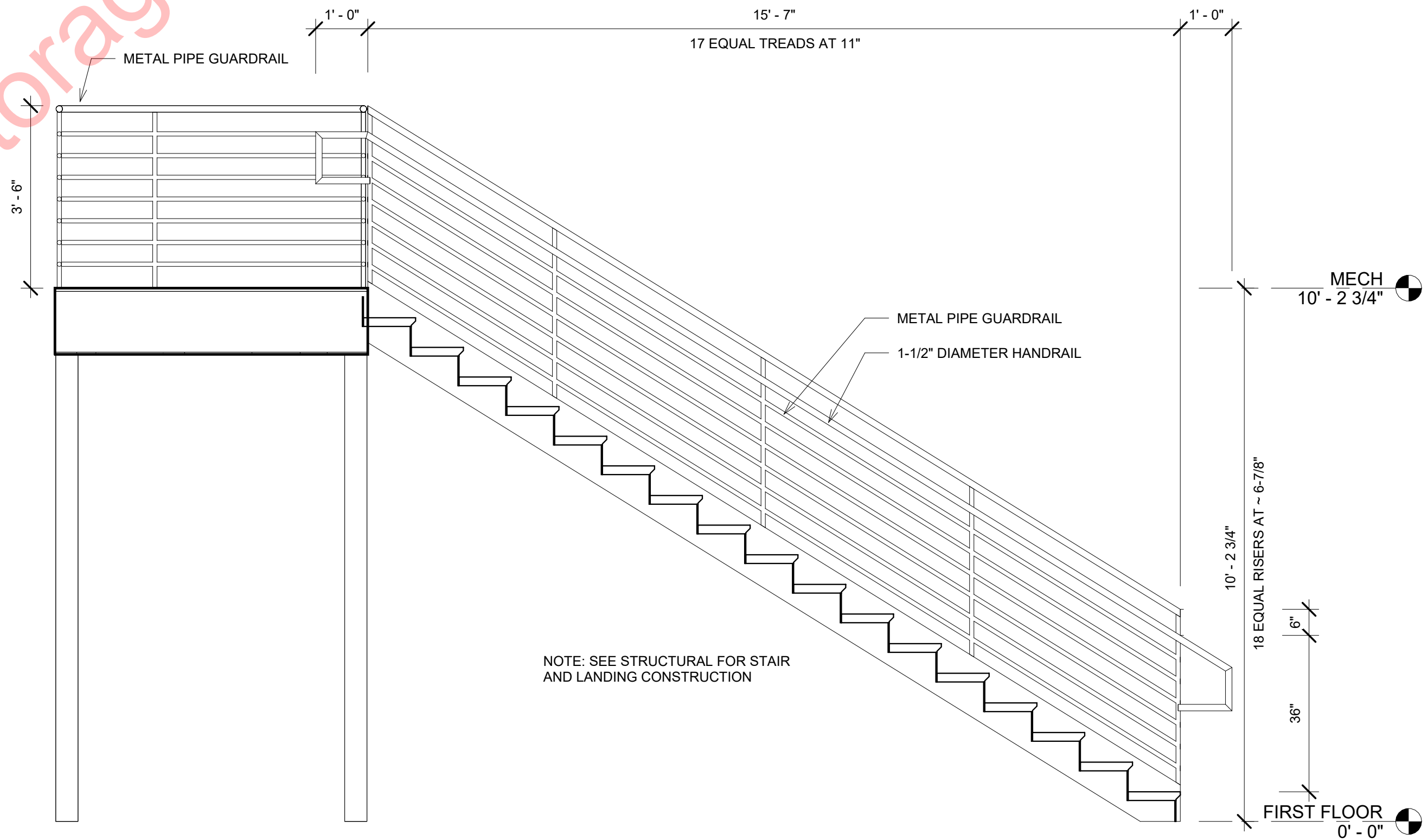
A400



① STORAGE CROSS SECTION
1/8" = 1'-0"



② OFFICE CROSS SECTION
1/8" = 1'-0"



③ STAIR SECTION
1/2" = 1'-0"

GENERAL STRUCTURAL NOTES

A. DESIGN CRITERIA

1. BUILDING CODE.....

2018 IBC (INTERNATIONAL BUILDING CODE) ASCE 7-16
2. LIVE LOADS:

FLOOR LIVE LOAD (BASIC).....250 PSF (SLAB ON GRADE)

FLOOR LIVE LOAD (2ND FLOOR MECHANICAL ROOM).....125 PSF
3. SNOW LOADS:

GROUND SNOW LOAD P_g60 PSF

FLAT ROOF SNOW LOAD P_f50 PSF

SNOW EXPOSURE FACTOR C_e1.0

SNOW LOAD IMPORTANCE FACTOR I1.0

THERMAL FACTOR C_t1.0

SLOPE FACTOR C_s1.0

DRIP SURCHARGE LOAD P_dN/A
4. WIND LOADS:

BASIC WIND SPEED.....110 MPH (3 SECOND GUST) $V = 85$ MPH

IMPORTANCE FACTOR (RISK CATEGORY II).....1.0

EXPOSURE.....B

INTERNAL PRESSURE COEFFICIENT..... $\pm .18$ (ENCLOSED BUILDING)

COMPONENTS AND CLADDING DESIGN PRESSURE.....PER REQUIREMENTS OF ASCE 7-16 FOR 110 MPH EXPOSURE B

WALLS.....17.4 PSF ASD

ROOF.....24 PSF ASD
5. SEISMIC LOADS:

SEISMIC RISK CATEGORY.....II

SEISMIC IMPORTANCE FACTOR I_a1.0

S_s0.99

S_10.38

SITE CLASS.....D - DEFAULT

S_{ps}0.8

S_{ps}N/A

SEISMIC DESIGN CATEGORY.....D

BASIC SEISMIC FORCE RESISTING SYSTEM.....WOOD SHEAR WALLS

DESIGN BASE SHEAR.....134 KIPS (EQUIPMENT STORAGE)

DESIGN BASE SHEAR.....18 KIPS (OFFICE)

SEISMIC RESPONSE COEFFICIENT C_s0.123

SEISMIC RESPONSE COEFFICIENT R6 1/2

ANALYSIS PROCEDURE.....EQUIVALENT LATERAL FORCE METHOD

B. FOUNDATION

1. FOUNDATION DESIGN IS BASED ON A GEOTECHNICAL INVESTIGATION PREPARED BY SYNGEN DATED ????.
2. ALLOWABLE SOIL BEARING PRESSURE: 2000 PSF
3. ALL ORGANIC AND/ OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM SUB-GRADE AND BACK FILL AREAS AND THE EXCAVATION SHALL BE BACK FILLED WITH STRUCTURAL FILL.
4. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUB-GRADE BEFORE AND AFTER PLACING CONCRETE UNTIL SUCH SUB-GRADES ARE PERMANENTLY PROTECTED BY THE BUILDING STRUCTURE.
5. AT PERIMETER FOUNDATION WALLS, BRING GRADE UP EVENLY (WITH MAXIMUM 6" LIFTS) ON EACH SIDE OF WALL TO FINAL ELEVATIONS.
6. STRUCTURAL FILL IS TO BE SELECT MATERIAL, TYPE A: NON-FROST SUSCEPTIBLE, CLEAN, FREE DRAINING, WELL GRADED BROKEN STONE, SAND GRAVEL OR OTHER INORGANIC SOIL MATERIALS MEETING THE FOLLOWING GRADATION AFTER COMPACTION:

SIZE

% PASSING

4 INCH

100

2 INCH (51mm)

-

1 INCH (25mm)

-

NO. 4

30-70

NO. 60

35 MAX.

NO.200

0-5 MAX.
7. STRUCTURAL FILL TO BE PLACED IN 8" LIFTS AND COMPACTED TO 95% OPTIMUM DENSITY.

C. CONCRETE

1. ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'_c) OF 4000 PSI.
2. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60, UNLESS OTHERWISE NOTED, EXCEPT #3 BARS WHICH MAY BE GRADE 40.
3. DETAIL REINFORCING BARS IN ACCORDANCE WITH THE ACI DETAILING MANUAL AND THE ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITION.
4. CONCRETE SHALL MEET ALL REQUIREMENTS OF ACI 301 SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS.
5. CONCRETE EXPOSED TO FREEZE/THAW SHALL HAVE 5% MINIMUM AIR ENTRAINMENT.
6. HORIZONTAL FOUNDATION AND WALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS AND INTERSECTIONS; PROVIDE CORNER BARS.
7. LAP ALL REINFORCING THE LARGER OF 30 INCHES OR 60 BAR DIAMETERS.
8. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE DRAWINGS. PROVIDE SUFFICIENT TIE BARS TO SUPPORT ALL REINFORCING.
9. PROVIDE REINFORCEMENT COVER AS FOLLOWS, UNLESS NOTED OTHERWISE ON DRAWINGS:

CONCRETE POURED AGAINST EARTH.....3"

CONCRETE POURED IN FORMS.....1 1/2" TYPICAL EXCEPT AS NOTED BELOW

CONCRETE POURED IN FORMS.....2" IF FACE OF CONCRETE IS IN CONTACT WITH EARTH

CONCRETE SLABS ON GRADE.....PLACE REINFORCING AT SLAB MID-DEPTH

D. STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WIDE FLANGE MEMBERS SHALL BE ASTM A992 GRADE 50 ($F_y = 50$ KSI).
2. SQUARE/ RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 GRADE B ($F_y = 46$ KSI).
3. ANGLES, CHANNELS, AND PLATES SHALL BE ASTM A36 ($F_y = 36$ KSI).
4. ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
5. WELDING SHALL BE PERFORMED WITH E70XX ELECTRODES. WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE LATEST EDITION OF THE AWS CODE. ALL WELDS ARE INTENDED TO BE CONTINUOUS UNLESS NOTED OTHERWISE.
6. BOLTED CONNECTIONS SHALL BE ACCOMPLISHED WITH ASTM A325 (TYPE N) HIGH STRENGTH BOLTS IN STANDARD HOLES UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL BE ASTM F1554 AS INDICATED. ANCHOR BOLTS ARE TO BE ACCURATELY PLACED WITH SETTING TEMPLATES.

E. WOOD CONSTRUCTION

1. ALL FRAME LUMBER SHALL BE DOUG FIR/ LARCH NO. 2 OR BETTER/ EQUAL.
2. VERSA-LAM SHALL MEET THE FOLLOWING MINIMUM CRITERIA:

VERSA-LAM - 1 3/4" WIDTH

$F_b = 2800$ PSI

$E = 2,000,000$ PSI
3. GLUED LAMINATED BEAMS SHALL BE 24F-V8, AND SHALL MEET THE FOLLOWING MINIMUM CRITERIA:

$F_b = 2400$ PSI

$E = 1,800,000$ PSI
4. BOLTS USED IN WOOD CONNECTIONS SHALL BE ASTM A307.
5. SHEATHING SHALL BE APA RATED AND SHALL MEET THE FOLLOWING CRITERIA:

A. ROOF SHEATHING SHALL BE 19/32" APA RATED W/ 40/20 SPAN RATING.

B. WALL SHEATHING: 15/32" APA RATED W/ 24/16 SPAN RATING.

C. FLOOR SHEATHING SHALL BE 3/4" (AC) T&G PLYWOOD W/ 48/24 SPAN RATING.

F. SUBMITTALS

1. SUBMIT THE FOLLOWING TO G's STRUCTURAL FOR REVIEW PRIOR TO ANY FABRICATION:

STRUCTURAL STEEL SHOP DRAWINGS FOR STEEL FRAMING COMPONENTS

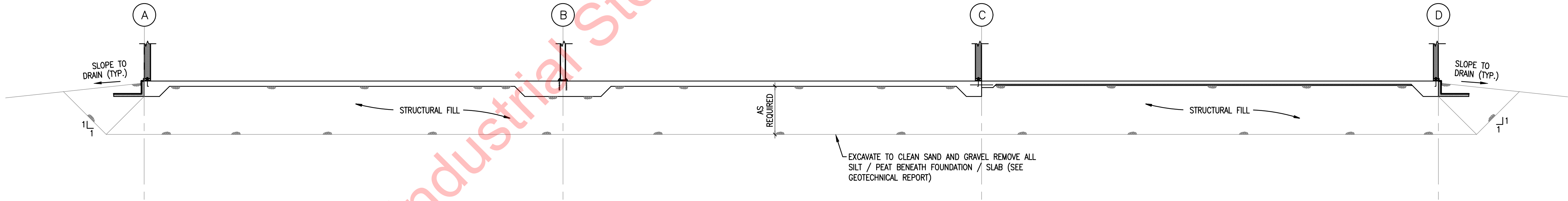
SHOP DRAWINGS FOR MANUFACTURED ROOF TRUSSES AND CALCULATIONS

FOUNDATION REINFORCING (REBAR) SHOP DRAWINGS

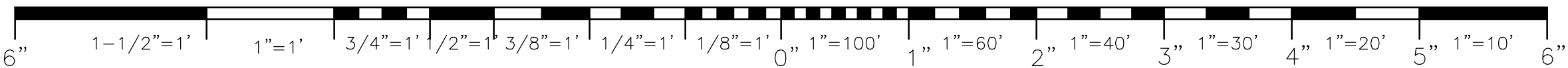
SPECIAL INSPECTIONS

THE FOLLOWING STRUCTURAL ITEMS REQUIRE SPECIAL INSPECTION PER IBC SECTION 1704. THESE INSPECTIONS SHALL BE PERFORMED BY A SPECIAL INSPECTOR QUALIFIED TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED.

ITEM	INSPECTION DESCRIPTION	FREQUENCY
CONCRETE	VISUAL INSPECTION OF PLACEMENT OF CONCRETE FOR FOOTINGS AND SLAB	ONE HOUR MINIMUM INSPECTION FOR FIRST CONCRETE PLACEMENT
GROUT	VISUAL INSPECTION OF PLACEMENT OF GROUT FOR COLUMN BASE PLATES	ONE INSPECTION UPON COMPLETION
BOLTS INSTALLED IN CONCRETE	VISUAL INSPECTION OF ANCHOR BOLTS PRIOR TO CONCRETE PLACEMENT	INSPECTION OF ANCHOR BOLTS PRIOR TO EACH CONCRETE PLACEMENT
REINFORCING STEEL	VISUAL INSPECTION OF PLACEMENT OF REINFORCING STEEL	INSPECTION OF REINFORCING PRIOR TO EACH CONCRETE PLACEMENT
SPECIAL GRADING, EXCAVATION, AND FILLING	PERIODIC VISUAL INSPECTION OF STRUCTURAL EXCAVATION, BACK FILL, AND COMPACTION	ONE INSPECTION AT BOTTOM OF EXCAVATION PERIODIC INSPECTION OF PLACEMENT OF STRUCTURAL FILL AND COMPACTION TESTING ONE INSPECTION AT FINAL ELEVATIONS FOR FOOTING AND SLAB CONSTRUCTION
WOOD	INSPECTION OF WOOD FRAMING	ONE INSPECTION OF SHEAR WALLS ONE INSPECTION FOR MEZZANINE FRAMING ONE INSPECTION OF ROOF FRAMING

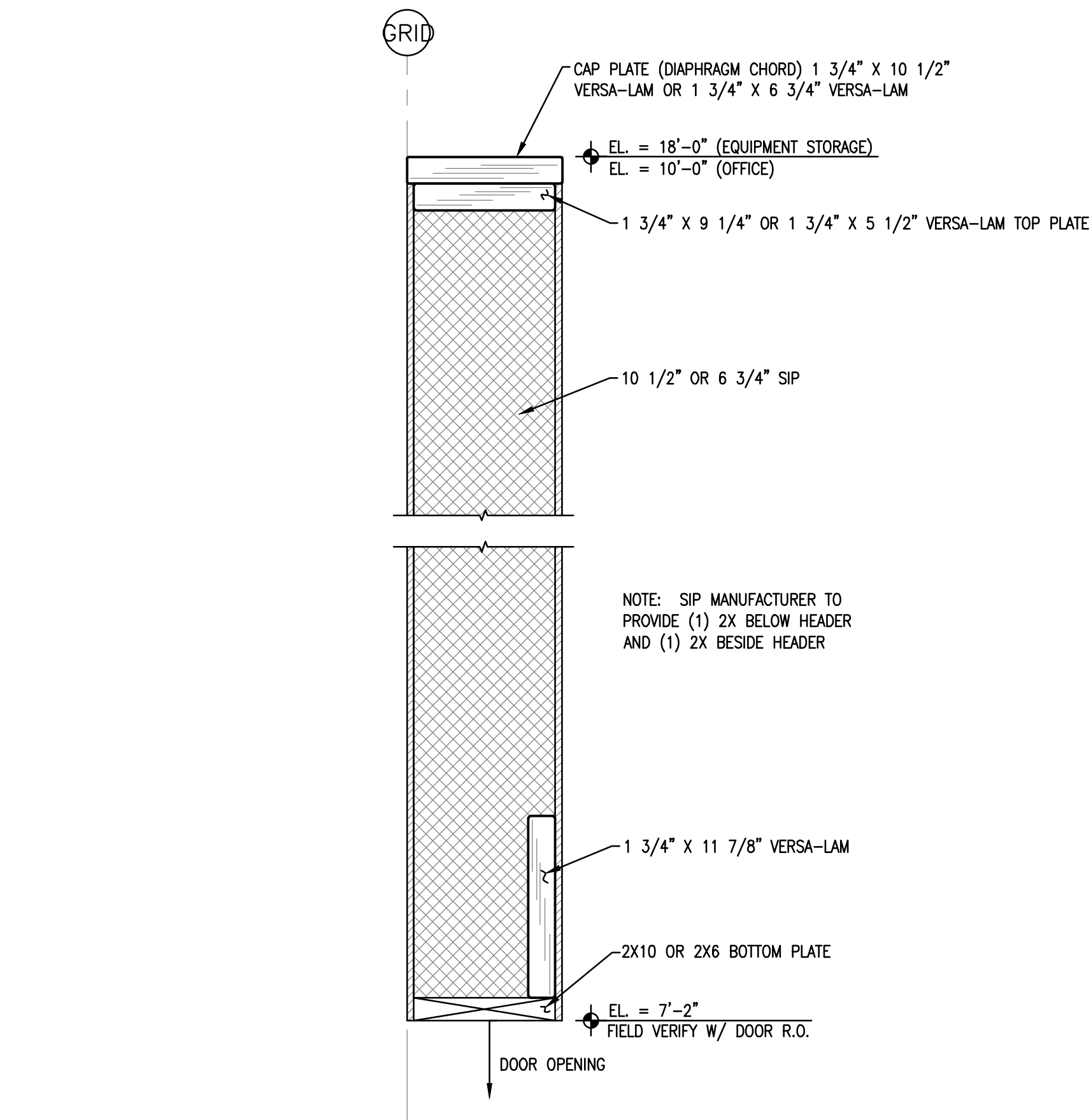


1 BUILDING EXCAVATION SECTION
S000 SCALE: 1/8" = 1'-0"

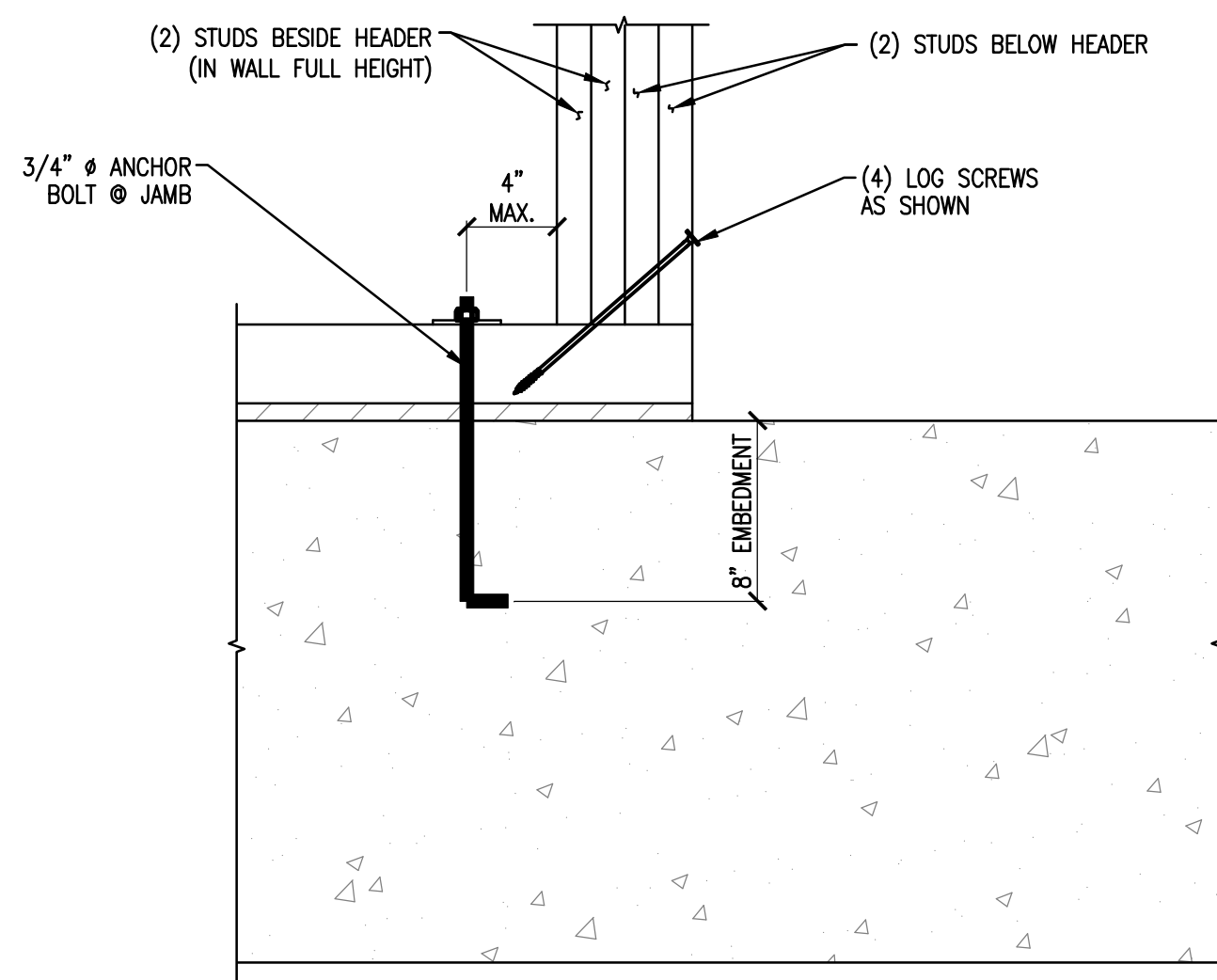


Permit Documents
5/7/2025
11X17 SHEETS: SCALE IS HALF-SIZED

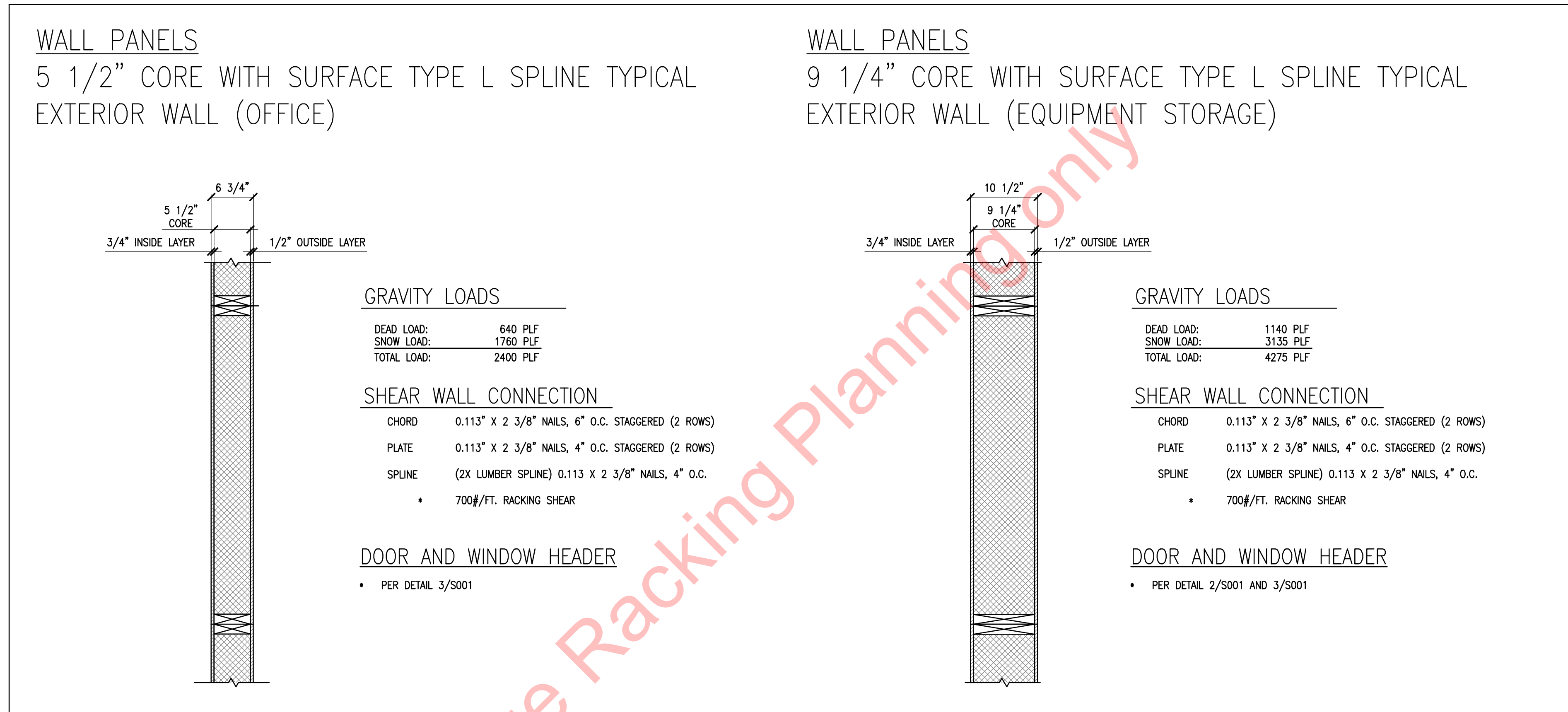




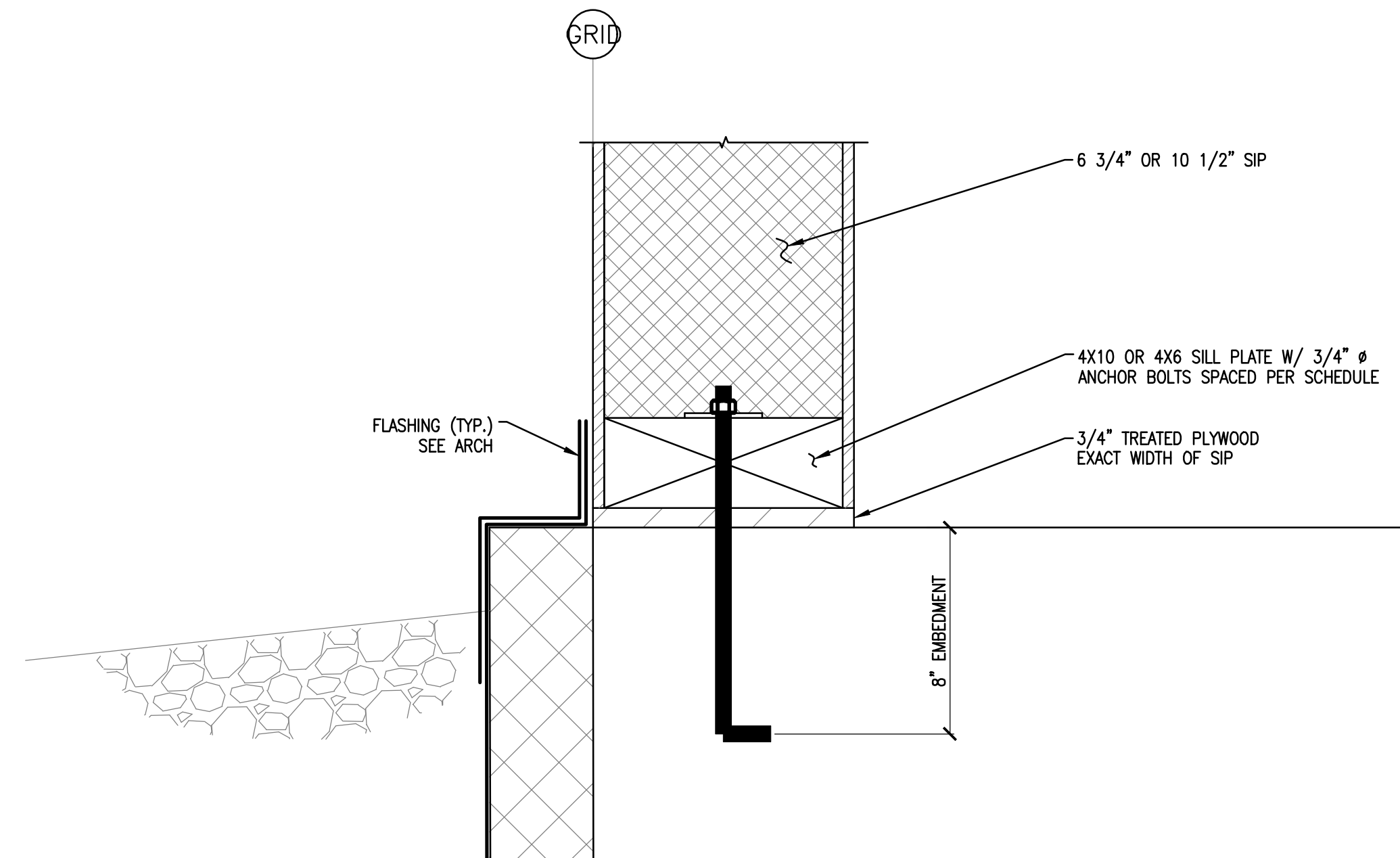
3 TYP. INSULATED HEADER OVER 3'-0" TO 4'-0" MANDOOK OR PASSAGE OPENING OR WINDOW
S001 SCALE: 1 1/2" = 1'-0"



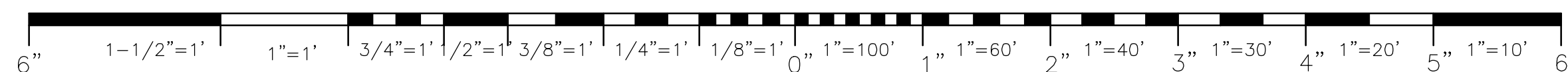
4 TYP. JAMB @ 16'-0" O.H. DOOR
S001 SCALE: 1 1/2" = 1'-0"



2 TYPICAL INSULATED HEADER OVER 16'-0" WIDE OH DOOR
S001 SCALE: 1 1/2" = 1'-0"



1 TYPICAL SIP WALL SILL DETAIL
S001 SCALE: NTS



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11X17 SHEETS: SCALE IS HALF-SIZED

G's STRUCTURAL LLC

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DNR Building

210 Alta Way

Fairbanks, Alaska

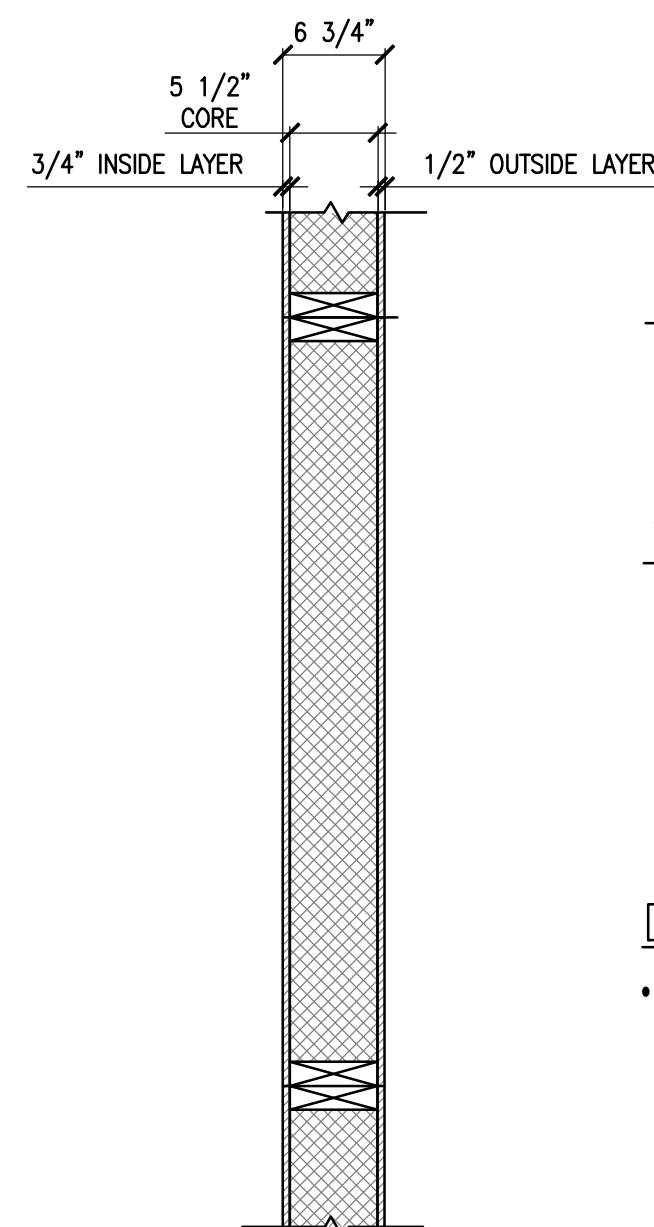
S001

SIP Wall Specifications
and Details

INSULATED WALL PANEL DESIGN SCHEDULE

WALL PANELS

5 1/2" CORE WITH SURFACE TYPE L SPLINE TYPICAL
EXTERIOR WALL (OFFICE)



GRAVITY LOADS

DEAD LOAD:	640 PLF
SNOW LOAD:	1760 PLF
TOTAL LOAD:	2400 PLF

SHEAR WALL CONNECTION

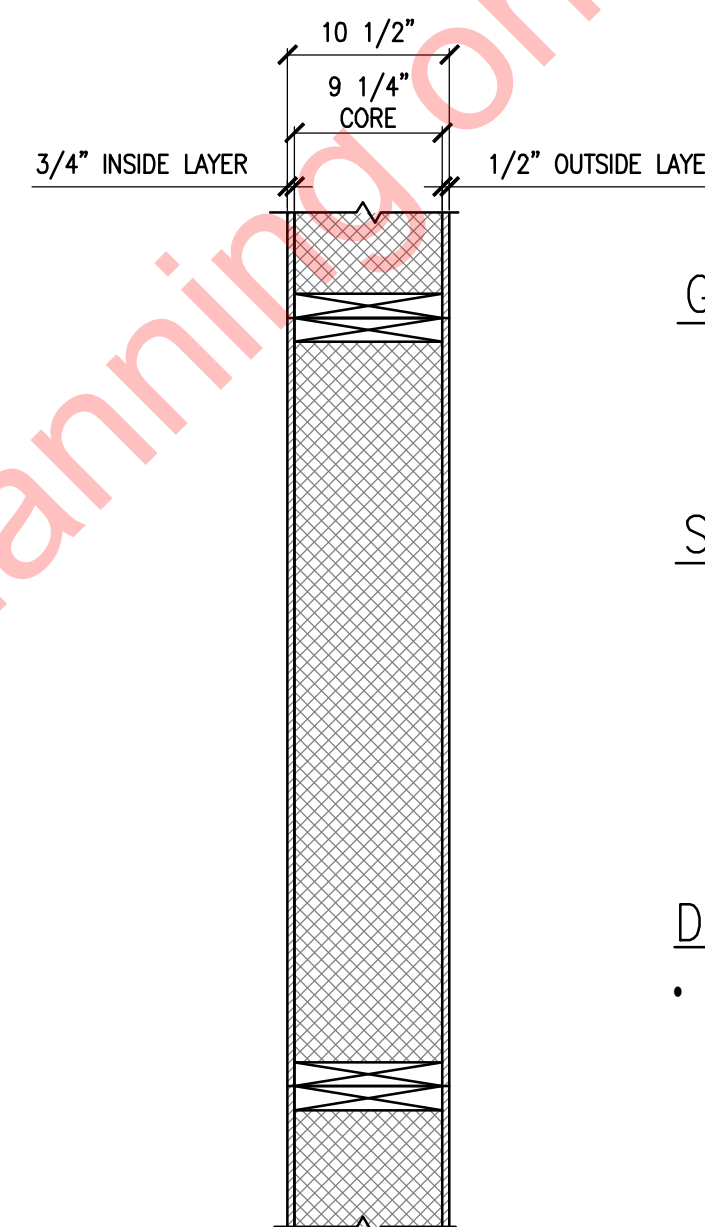
CHORD	0.113" X 2 3/8" NAILS, 6" O.C. STAGGERED (2 ROWS)
PLATE	0.113" X 2 3/8" NAILS, 4" O.C. STAGGERED (2 ROWS)
SPLINE	(2X LUMBER SPLINE) 0.113 X 2 3/8" NAILS, 4" O.C.
*	700#/FT. RACKING SHEAR

DOOR AND WINDOW HEADER

- PER DETAIL 3/S001

WALL PANELS

9 1/4" CORE WITH SURFACE TYPE L SPLINE TYPICAL
EXTERIOR WALL (EQUIPMENT STORAGE)



GRAVITY LOADS

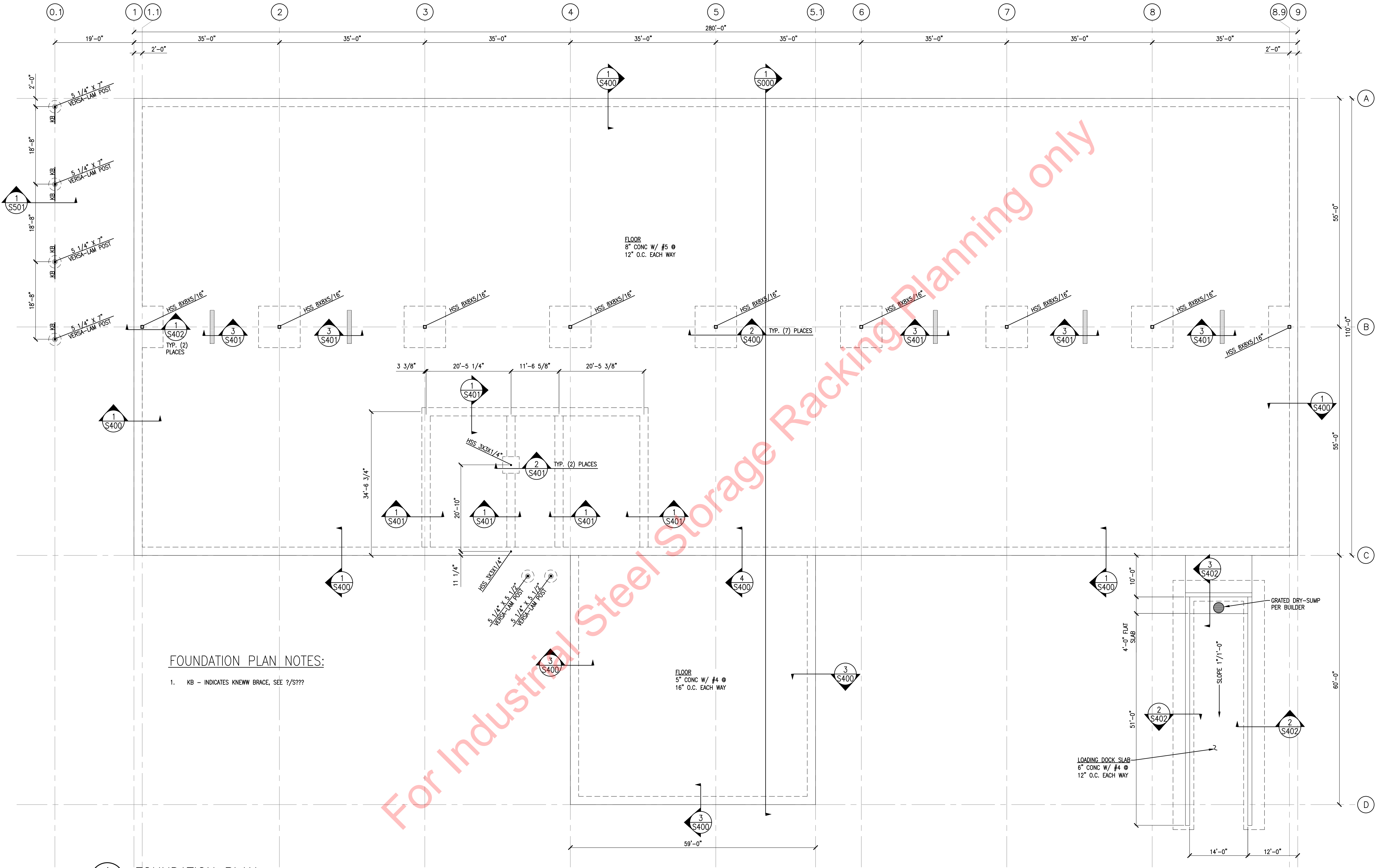
DEAD LOAD:	1140 PLF
SNOW LOAD:	3135 PLF
TOTAL LOAD:	4275 PLF

SHEAR WALL CONNECTION

CHORD	0.113" X 2 3/8" NAILS, 6" O.C. STAGGERED (2 ROWS)
PLATE	0.113" X 2 3/8" NAILS, 4" O.C. STAGGERED (2 ROWS)
SPLINE	(2X LUMBER SPLINE) 0.113 X 2 3/8" NAILS, 4" O.C.
*	700#/FT. RACKING SHEAR

DOOR AND WINDOW HEADER

- PER DETAIL 2/S001 AND 3/S001



FOUNDATION PLAN NOTES:
1. KB - INDICATES KNEEW BRACE, SEE ?/S???

1 FOUNDATION PLAN
S100 SCALE: 3/32" = 1'-0"

S100

Foundation Plan

Worry Free Alaska, LLC

DNR Building

210 Alta Way

Fairbanks, Alaska

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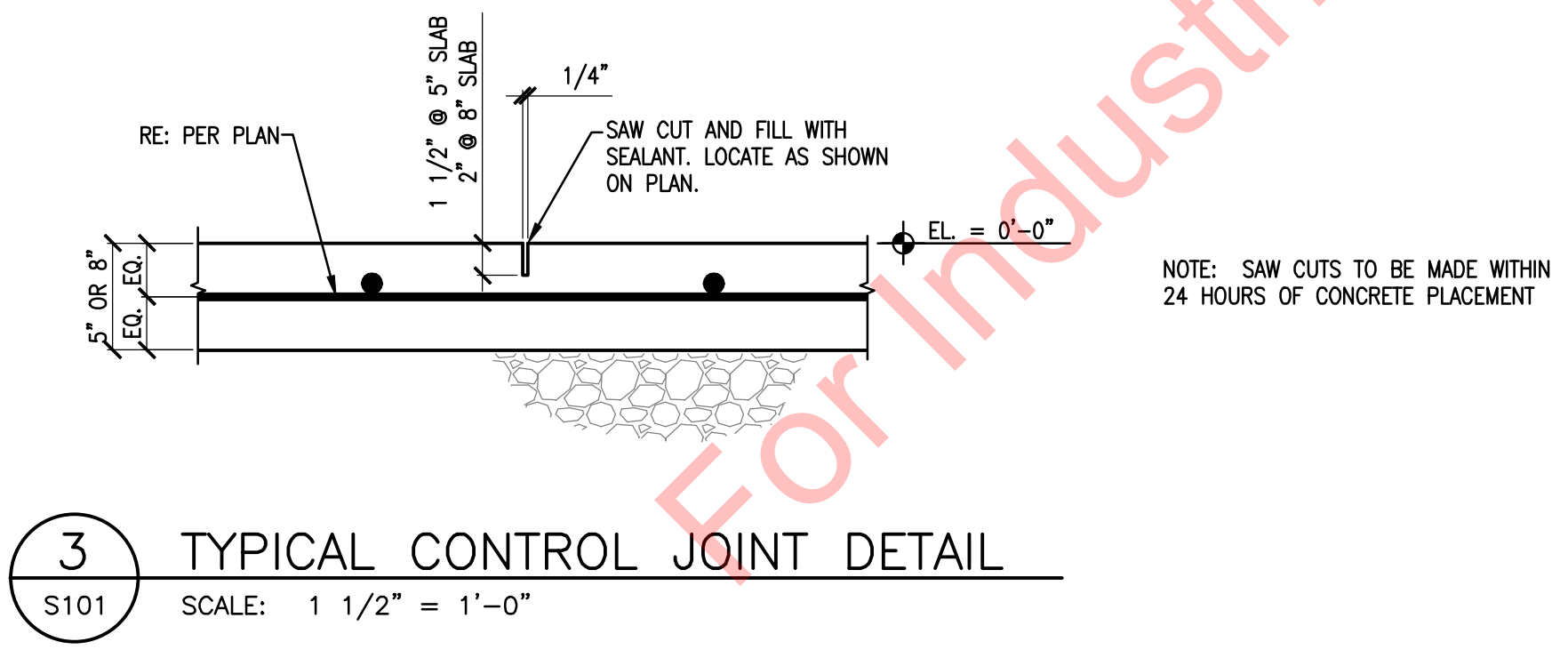
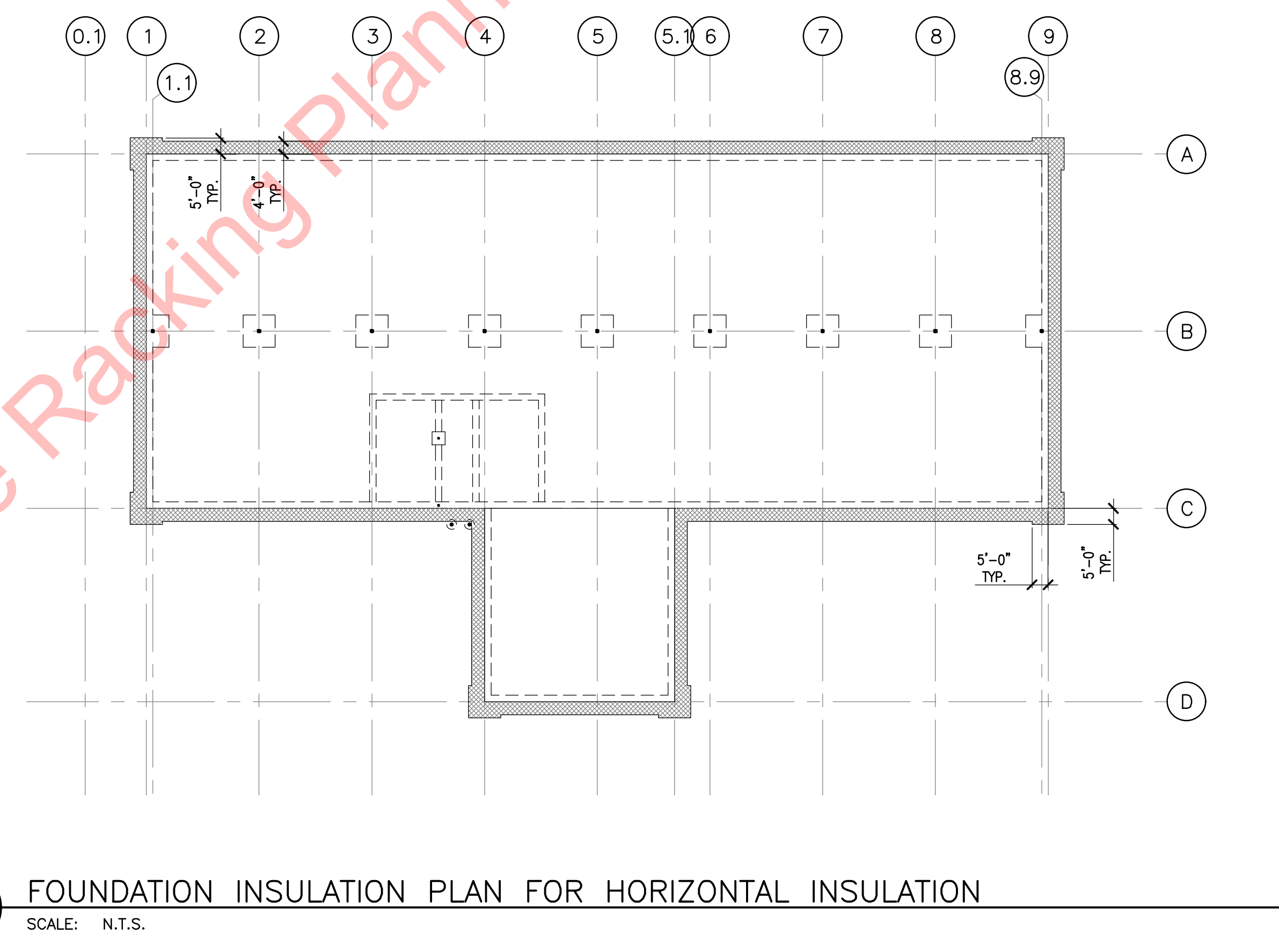
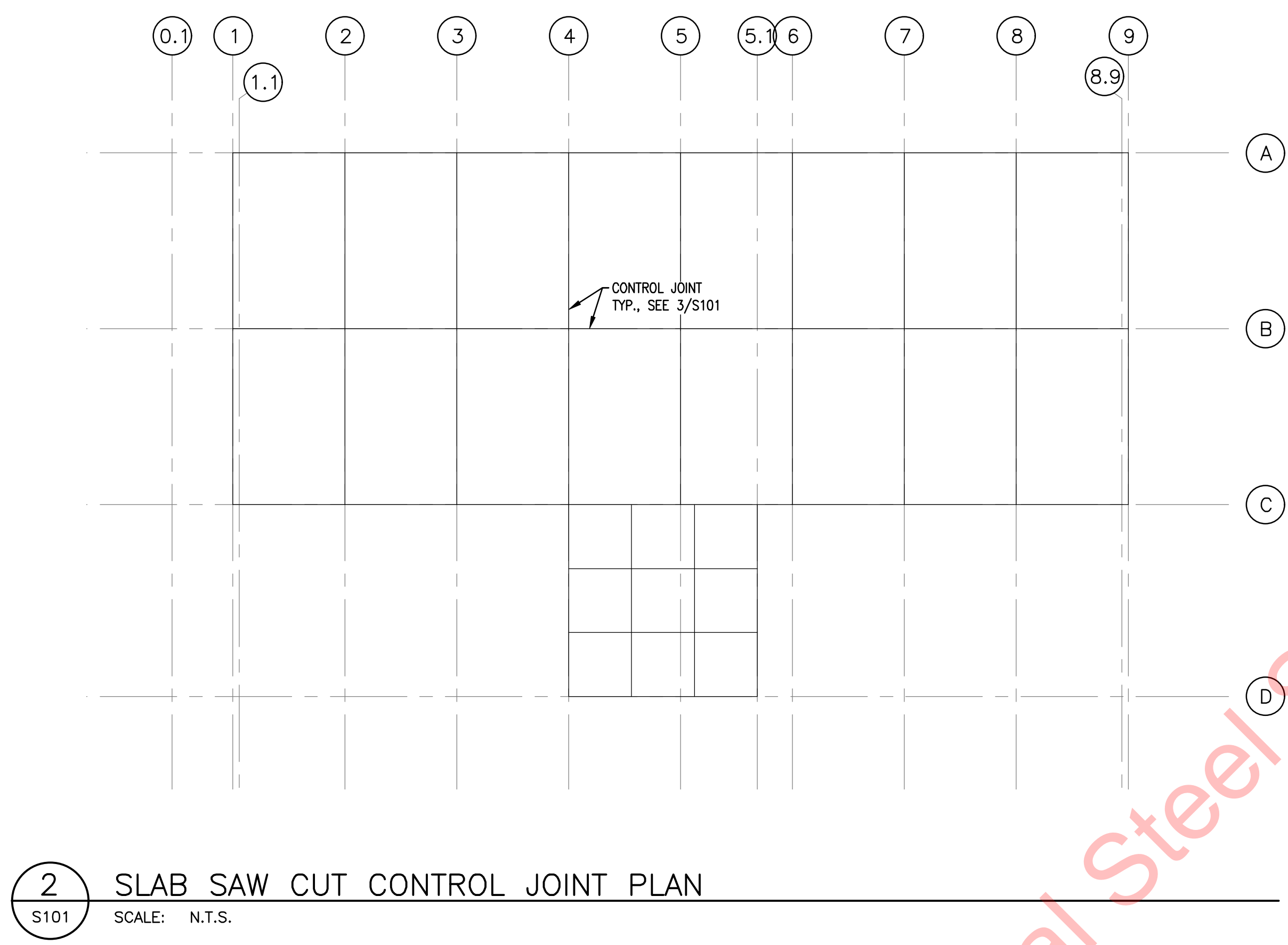
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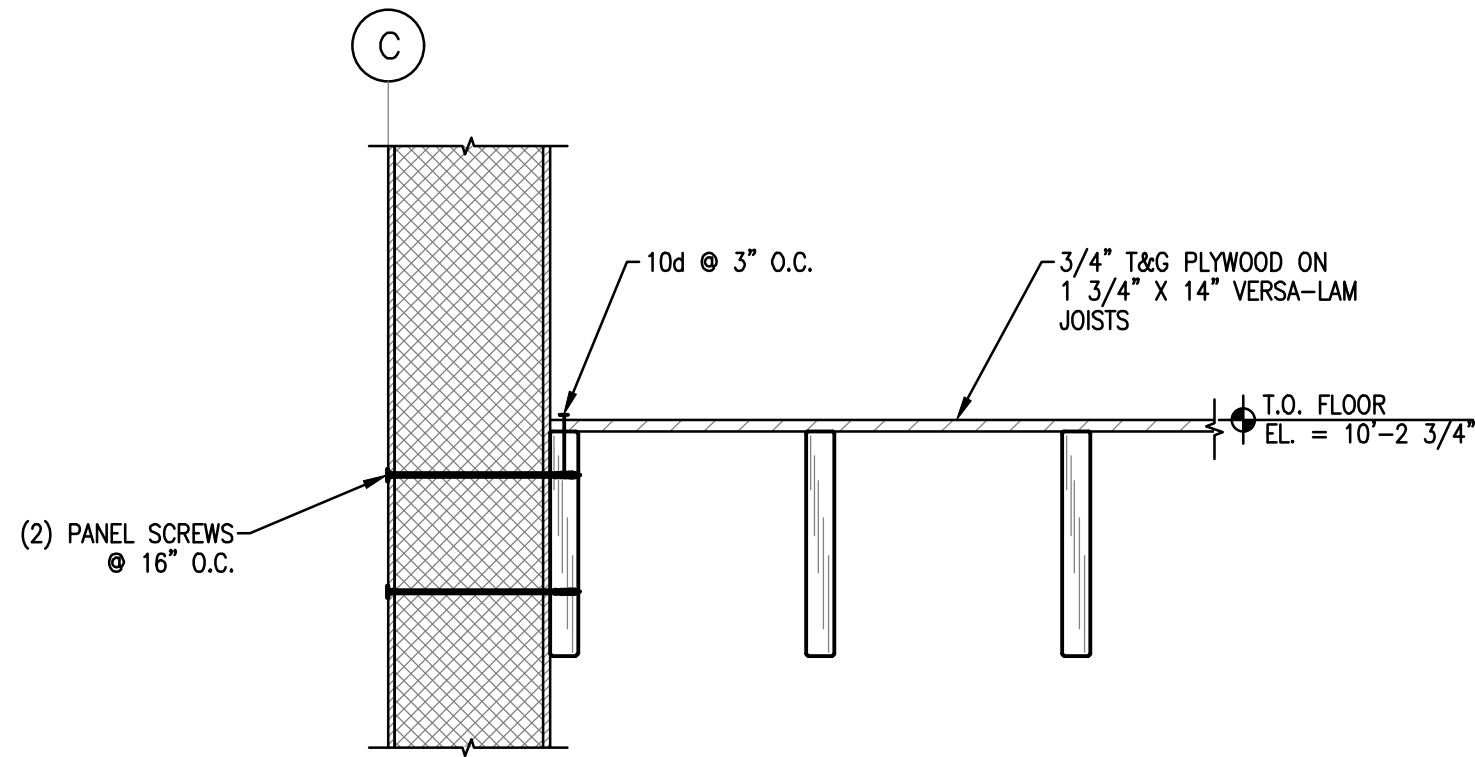
5/7/2025

11X17 SHEETS: SCALE IS HALF-SIZED

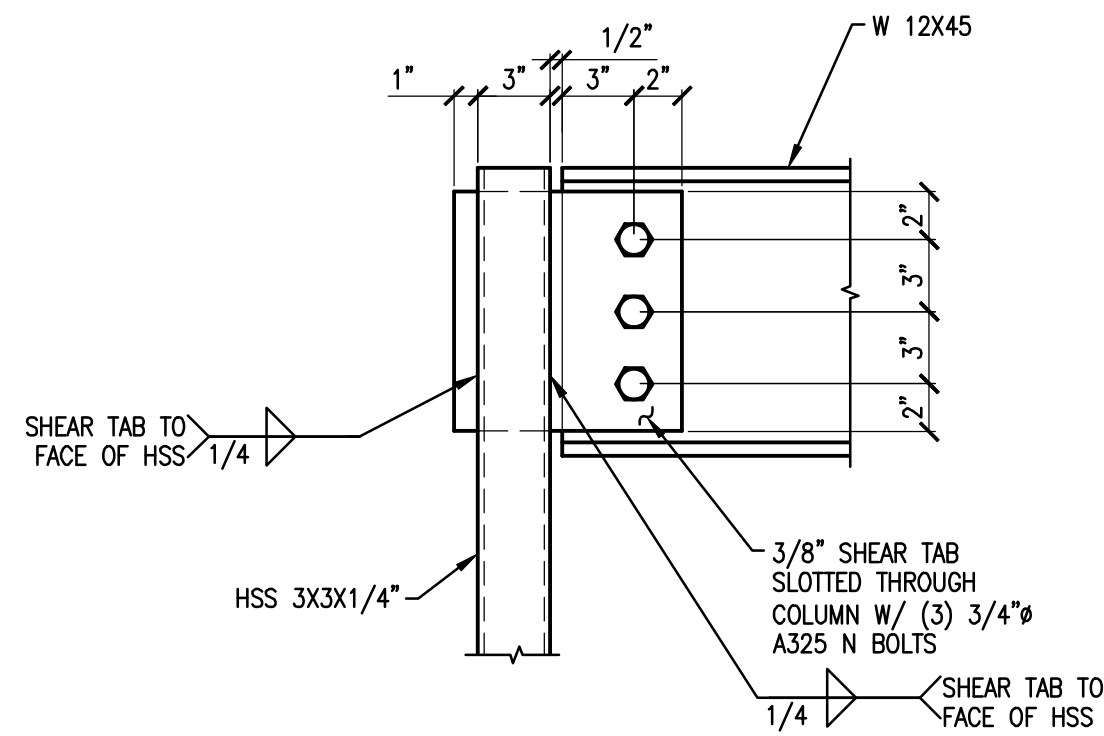


FOUNDATION INSULATION PLAN NOTES:

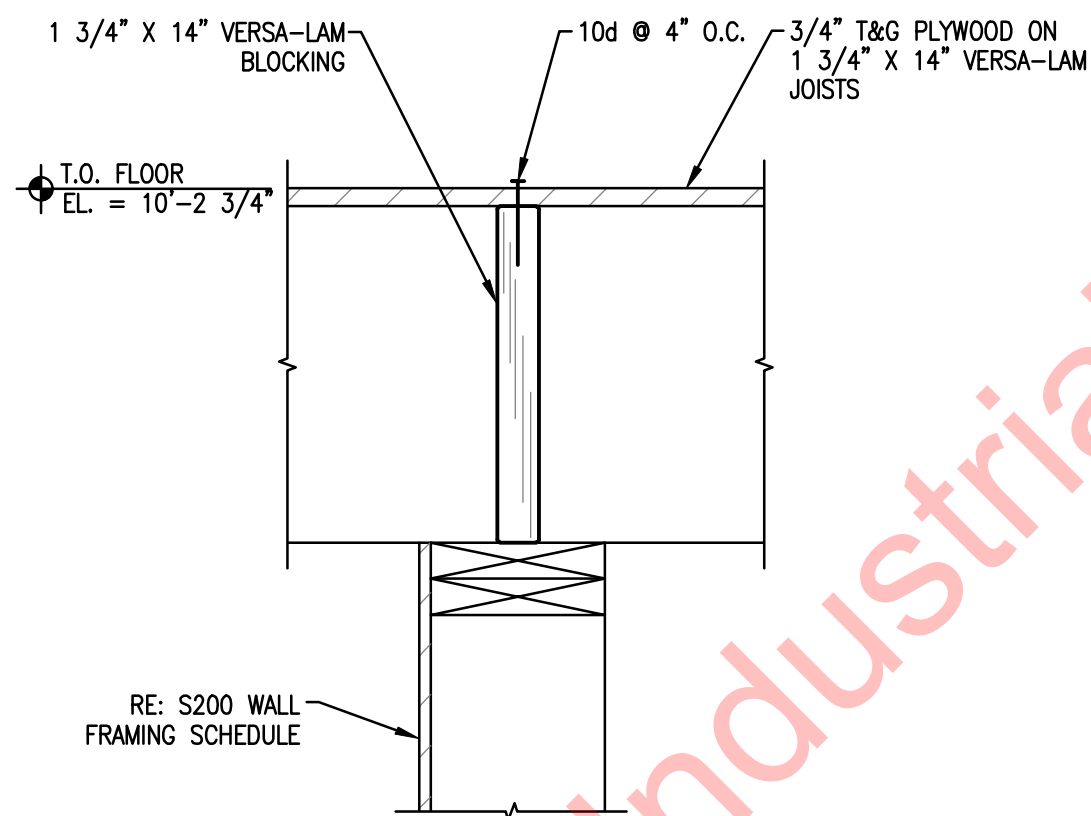
1. SHALLOW FROST PROTECTED FOUNDATION IS IN ACCORDANCE WITH COLD CLIMATE HOUSE RESEARCH CENTER (CCHRC) RESEARCH REPORT BASED ON 30 YEAR RETURN PERIOD (AFI) 6500 DEGREE FAHRENHEIT - DAYS.
2. INSULATION TO BE EXTRUDED POLYSTYRENE XPS R5 PER INCH.



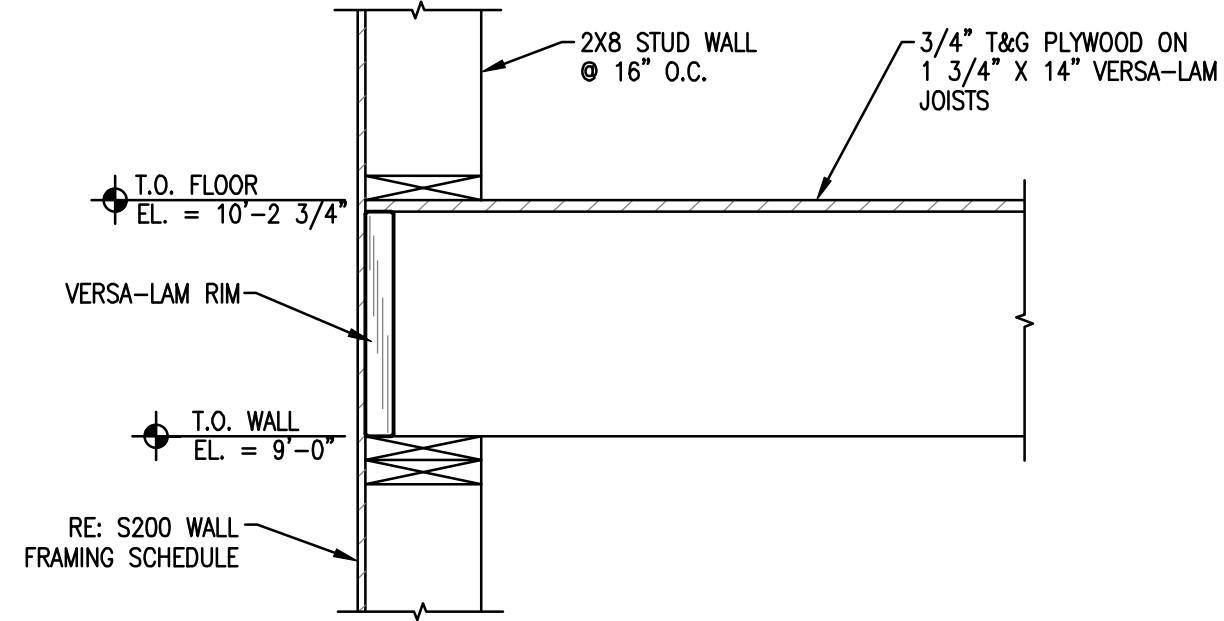
5 FRAMING DETAIL
S200 SCALE: 1" = 1'-0"



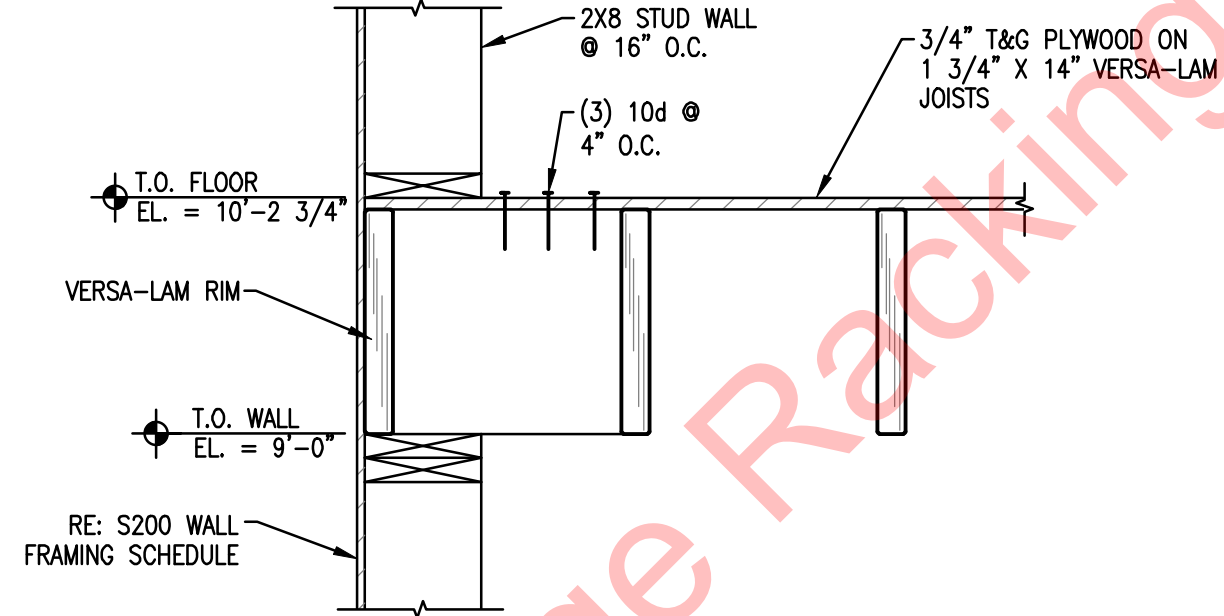
6 TYP. CONNECTION DETAIL
S200 SCALE: 1 1/2" = 1'-0"



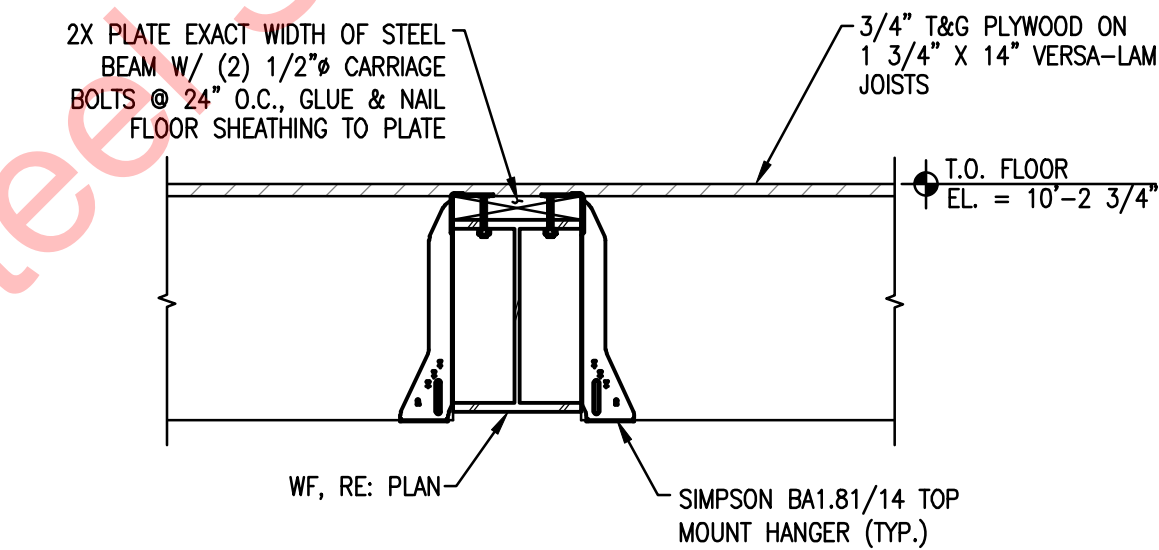
7 FRAMING DETAIL
S200 SCALE: 1 1/2" = 1'-0"



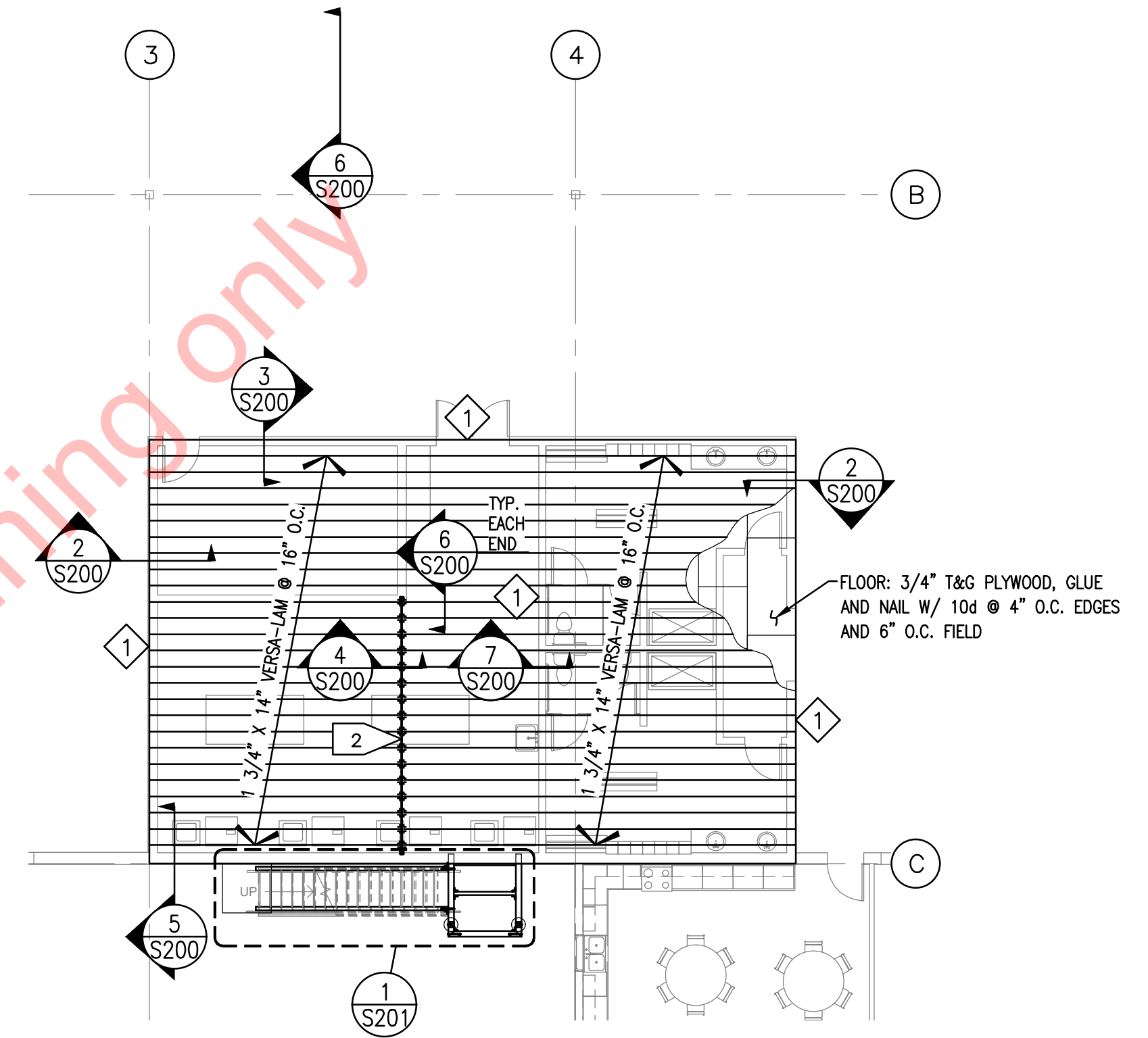
2 FRAMING DETAIL
S200 SCALE: 1" = 1'-0"



3 FRAMING DETAIL
S200 SCALE: 1" = 1'-0"



4 FRAMING DETAIL
S200 SCALE: 1" = 1'-0"



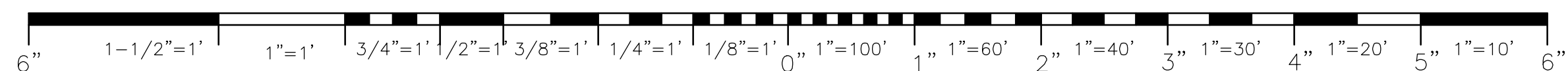
1 MECHANICAL FLOOR FRAMING PLAN
S200 SCALE: 3/32" = 1'-0"

PLAN NOTES:

- INDICATES SIMPSON HANGER
- W 12X45

WALL FRAMING SCHEDULE – BEARING & SHEAR WALLS

MK	FRAMING TYPE	ANCHOR BOLT	SILL	SHEATHING REQ.	HD REQ.	NOTES
1	2X8 @ 16" O.C.	5/8" TITEN HD (THDB62800H) W/ 3X3X1/4" PLATE WASHER @ 32" O.C.	(1) 2X8 TREATED SILL	15/32" SHEATHING W/ 8d @ 4" O.C. EDGES & 8d @ 8" O.C. FIELD, BLOCK PANEL EDGES	RE: PLAN	INTERIOR WALL



11X17 SHEETS: SCALE IS HALF-SIZED



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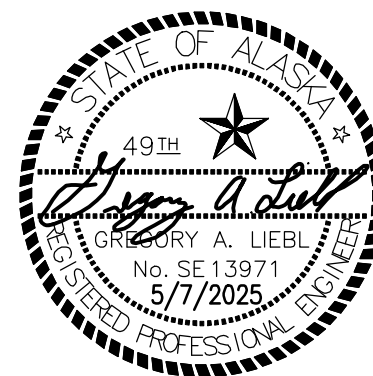
DNR Building

210 Alta Way

Fairbanks, Alaska

S200

**Mechanical Room
Floor Framing Plan**



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11X17 SHEETS: SCALE IS HALF-SIZED

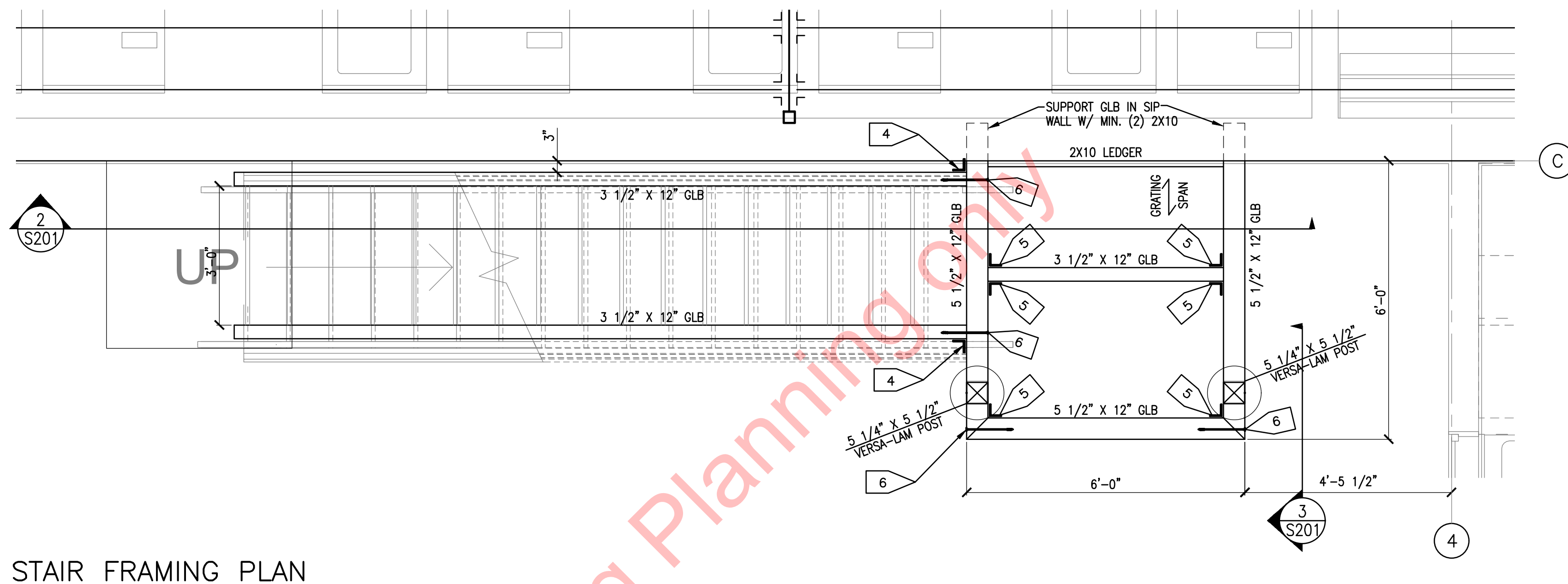
PLAN NOTES:

1. STAIR TREADS: GRIP STRUT STAIR TREAD PLANKS WITH NOSING, 1 1/2" DEPTH 5-DIAMOND, 14 GA GALVANIZED STEEL (McNICHOLS OR EQUAL)
2. STAIR LANDING: GRIP STRUT PLANK GRATING, 1 1/2" DEPTH 5-DIAMOND, 14 GA GALVANIZED STEEL (McNICHOLS OR EQUAL)
3. SECURE STAIR TREADS TO GLB STRINGERS W/ THRU-BOLTS PER MANUFACTURER'S RECOMMENDATIONS. SECURE LANDING PLANK TO GLB's IN ACCORDANCE WITH MANUFACTURER'S STANDARD FASTENING DETAILS.

- 4 ANGLE CONNECTION: 3X3X1/4" X 0'-10" W/ (2) 5/8" THRU BOLTS
- 5 ANGLE CONNECTION: 3X3X1/4" X 0'-10" W (4) SIMPSON SDS25300 EACH LEG
- 6 LOG SCREW CONNECTION: (3) LOG SCREWS 12" LONG

1 MECHANICAL FLOOR STAIR FRAMING PLAN

S201 SCALE: 1/2" = 1'-0"

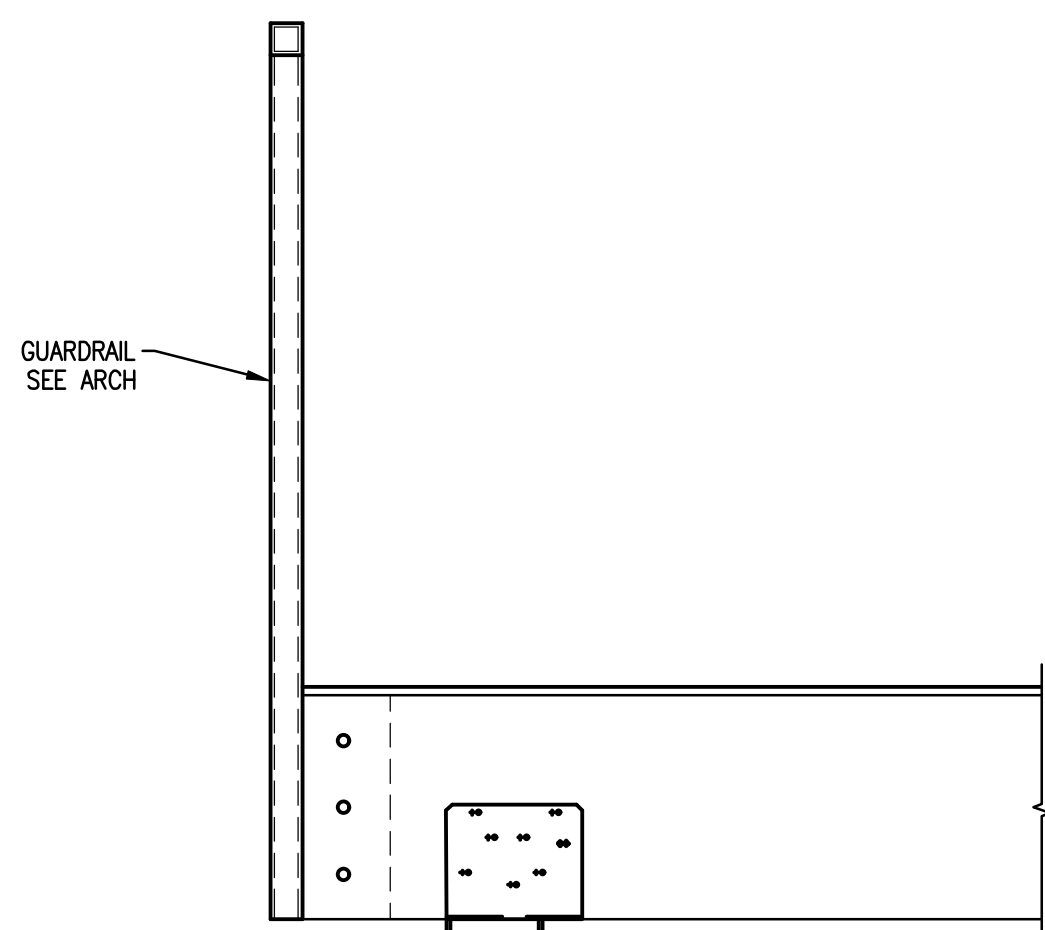
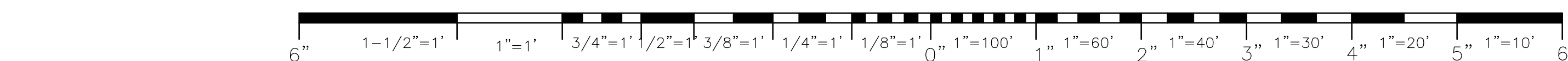


SECURE EACH GLB STRINGER TO CONCRETE LANDING W/ L 3X3X1/4" X 0'-6" W/ (2) SIMPSON SDS25300 INTO GLB AND (2) TITENHD (THD37300H) INTO CONCRETE

CONCRETE LANDING: 5" SLAB W/ #4 @ 12" O.C. EACH WAY

2 MECHANICAL FLOOR STAIR SECTION

S201 SCALE: 1/2" = 1'-0"



SIMPSON ECCQ66 SDS2.5

5 1/4" X 5 1/2" VERSA-LAM POST

SIMPSON CB66

CHAMFER (TYP.)

14" Ø SONOTUBE W/ (4) #5 VERT HOOK 6" INTO FTG W/ #3 TIES @ 8" O.C. & (3) TIES TOP 8" OF SONOTUBE

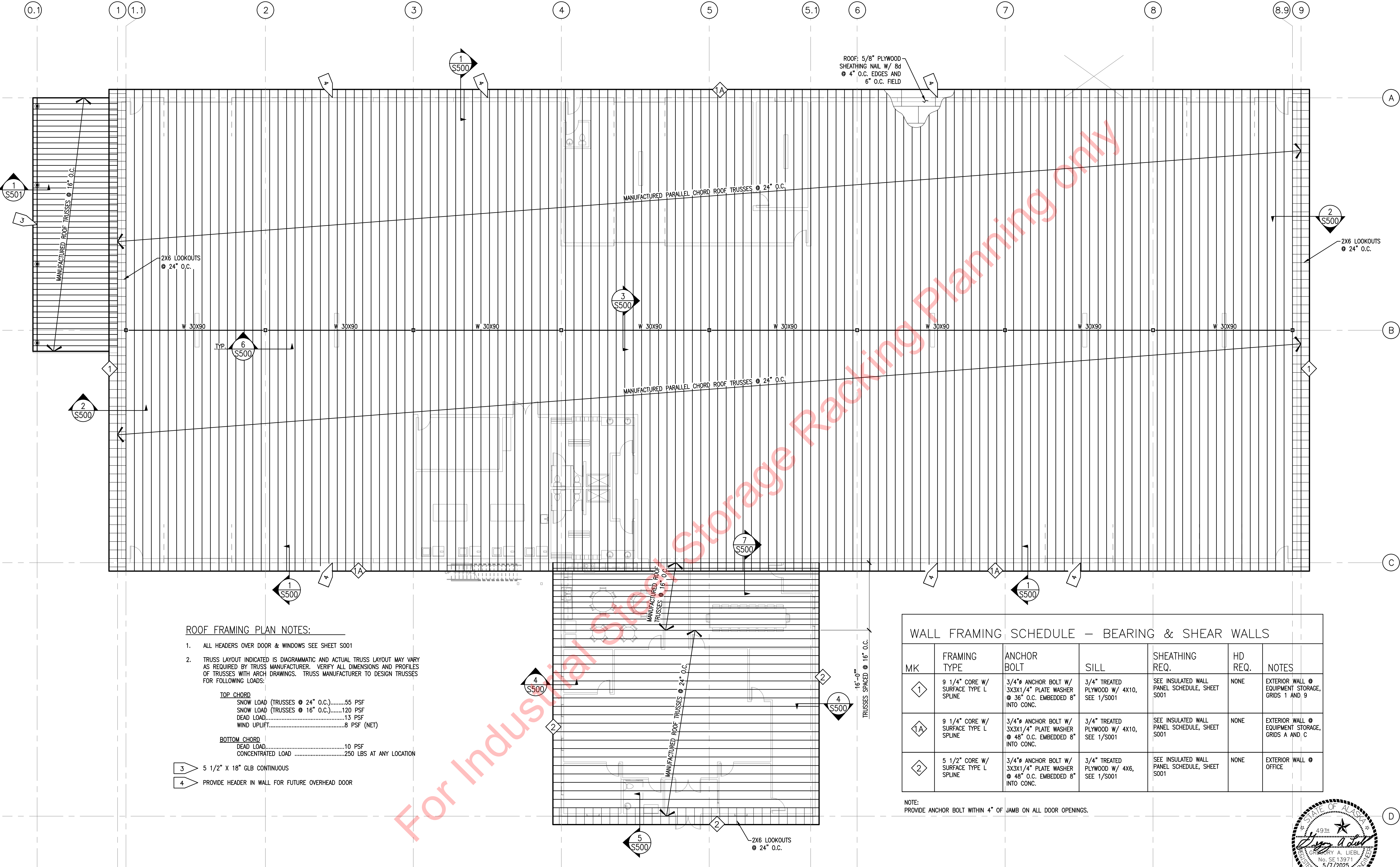
BIGFOOT, BF36

3'-0" Ø BIGFOOT BASE

3 MECHANICAL FLOOR STAIR SECTION

S201 SCALE: 1/2" = 1'-0"

For Industrial Steel Storage Racking Planning Only



ROOF FRAMING PLAN NOTES:

- ALL HEADERS OVER DOOR & WINDOWS SEE SHEET S001
- TRUSS LAYOUT INDICATED IS DIAGRAMMATIC AND ACTUAL TRUSS LAYOUT MAY VARY AS REQUIRED BY TRUSS MANUFACTURER. VERIFY ALL DIMENSIONS AND PROFILES OF TRUSSES WITH ARCH DRAWINGS. TRUSS MANUFACTURER TO DESIGN TRUSSES FOR FOLLOWING LOADS:

TOP CHORD

SNOW LOAD (TRUSSES @ 24" O.C.).....55 PSF
SNOW LOAD (TRUSSES @ 16" O.C.).....120 PSF
DEAD LOAD.....13 PSF
WIND UPLIFT.....8 PSF (NET)

BOTTOM CHORD

DEAD LOAD.....10 PSF
CONCENTRATED LOAD250 LBS AT ANY LOCATION

- 3 5 1/2" X 18" GLB CONTINUOUS
4 PROVIDE HEADER IN WALL FOR FUTURE OVERHEAD DOOR

WALL FRAMING SCHEDULE - BEARING & SHEAR WALLS

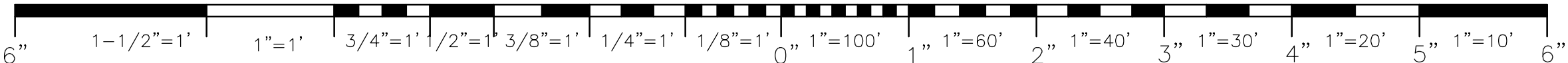
MK	FRAMING TYPE	ANCHOR BOLT	SILL	SHEATHING REQ.	HD REQ.	NOTES
1	9 1/4" CORE W/ SURFACE TYPE L SPLINE	3/4" ANCHOR BOLT W/ 3X3X1/4" PLATE WASHER @ 36" O.C. EMBEDDED 8" INTO CONC.	3/4" TREATED PLYWOOD W/ 4X10, SEE 1/S001	SEE INSULATED WALL PANEL SCHEDULE, SHEET S001	NONE	EXTERIOR WALL @ EQUIPMENT STORAGE, GRIDS 1 AND 9
1A	9 1/4" CORE W/ SURFACE TYPE L SPLINE	3/4" ANCHOR BOLT W/ 3X3X1/4" PLATE WASHER @ 48" O.C. EMBEDDED 8" INTO CONC.	3/4" TREATED PLYWOOD W/ 4X10, SEE 1/S001	SEE INSULATED WALL PANEL SCHEDULE, SHEET S001	NONE	EXTERIOR WALL @ EQUIPMENT STORAGE, GRIDS A AND C
2	5 1/2" CORE W/ SURFACE TYPE L SPLINE	3/4" ANCHOR BOLT W/ 3X3X1/4" PLATE WASHER @ 48" O.C. EMBEDDED 8" INTO CONC.	3/4" TREATED PLYWOOD W/ 4X6, SEE 1/S001	SEE INSULATED WALL PANEL SCHEDULE, SHEET S001	NONE	EXTERIOR WALL @ OFFICE

NOTE: PROVIDE ANCHOR BOLT WITHIN 4" OF JAMB ON ALL DOOR OPENINGS.



1 ROOF FRAMING PLAN

S300 SCALE: 3/32" = 1'-0"



Permit Documents
5/7/2025

11X17 SHEETS: SCALE IS HALF-SIZED

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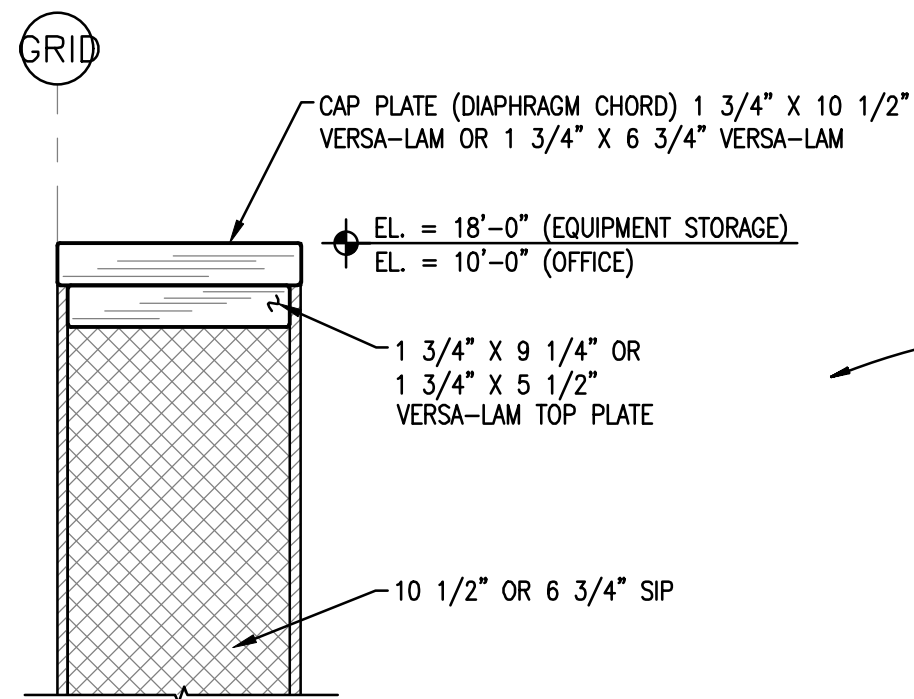
DNR Building

210 Alta Way

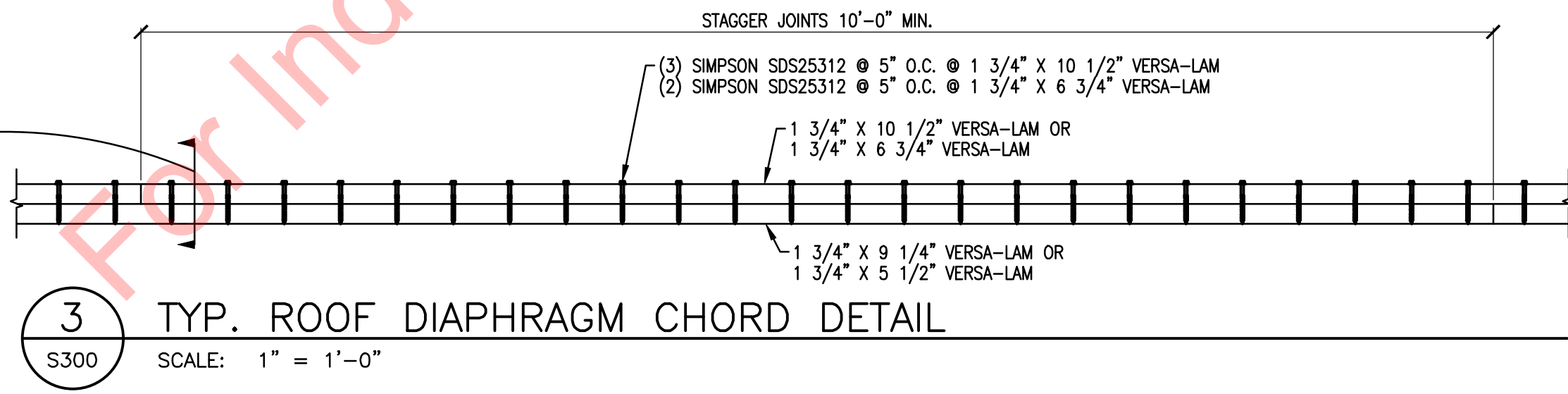
Fairbanks, Alaska

S300

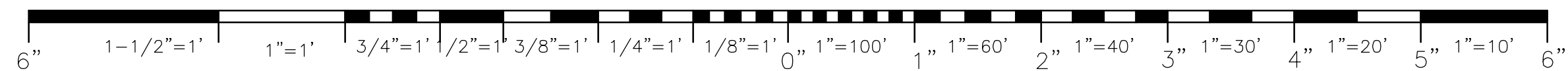
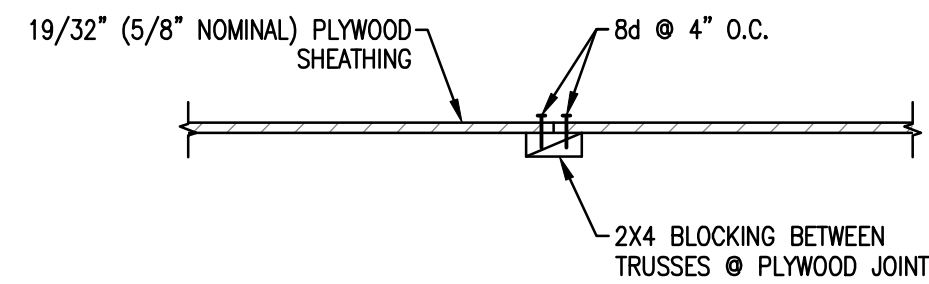
Roof Framing Plan



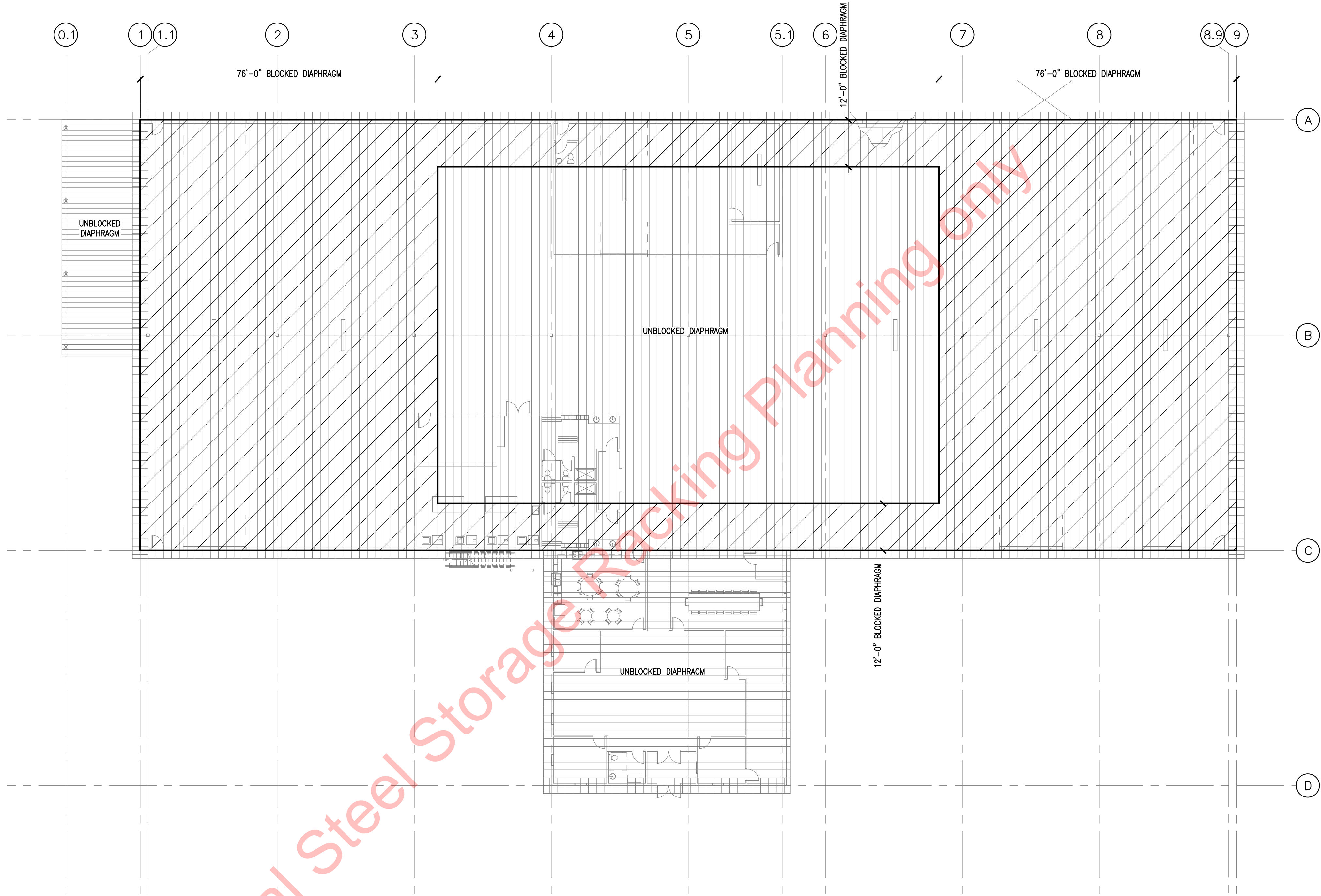
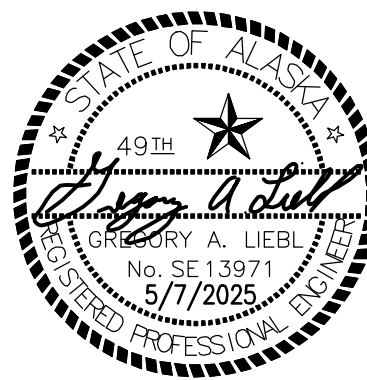
1 ROOF DIAPHRAGM PLAN
S300 SCALE: 1/16" = 1'-0"

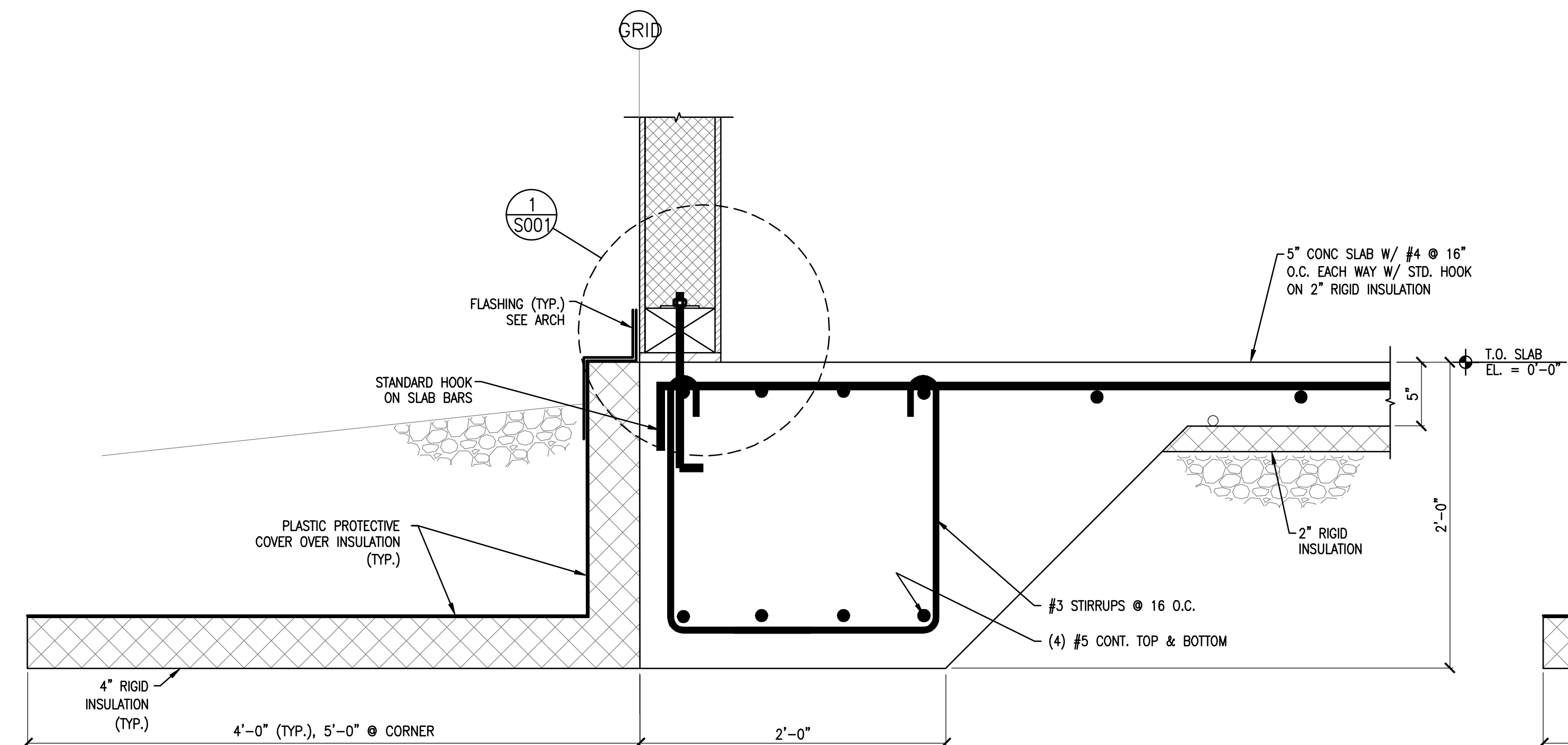


2 TYP. ROOF DIAPHRAGM BLOCKING DETAIL
S300 SCALE: 1" = 1'-0"

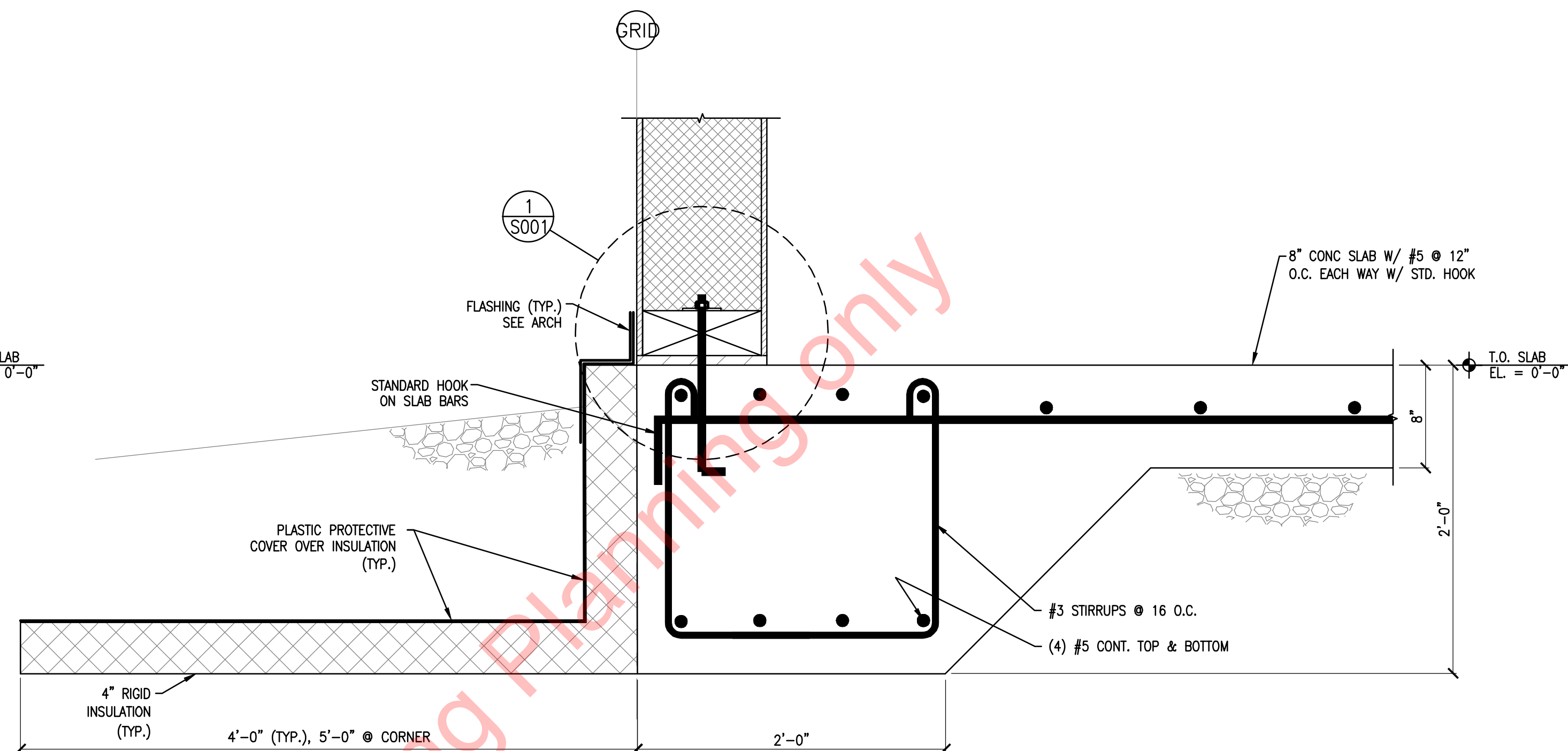


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11X17 SHEETS: SCALE IS HALF-SIZED

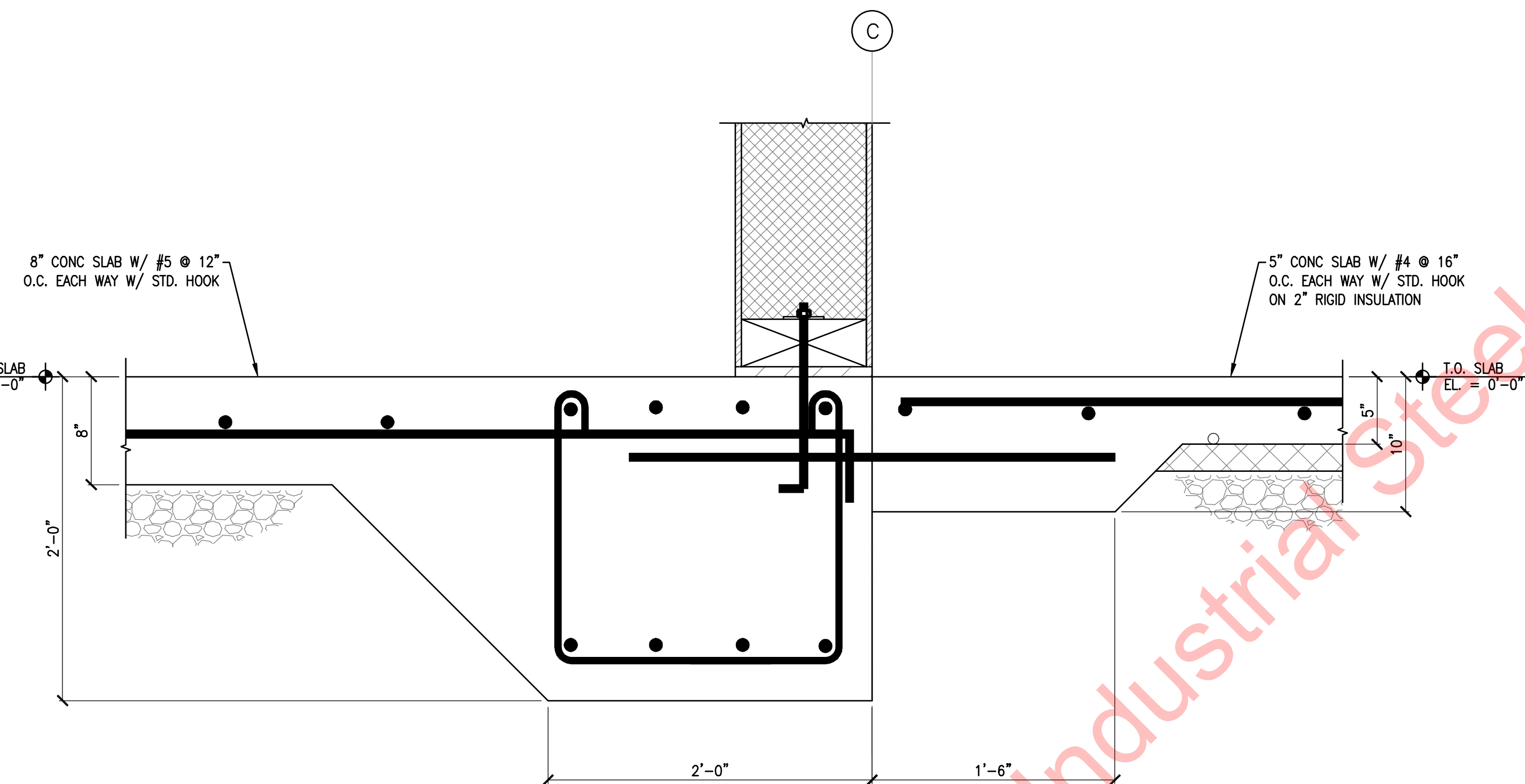




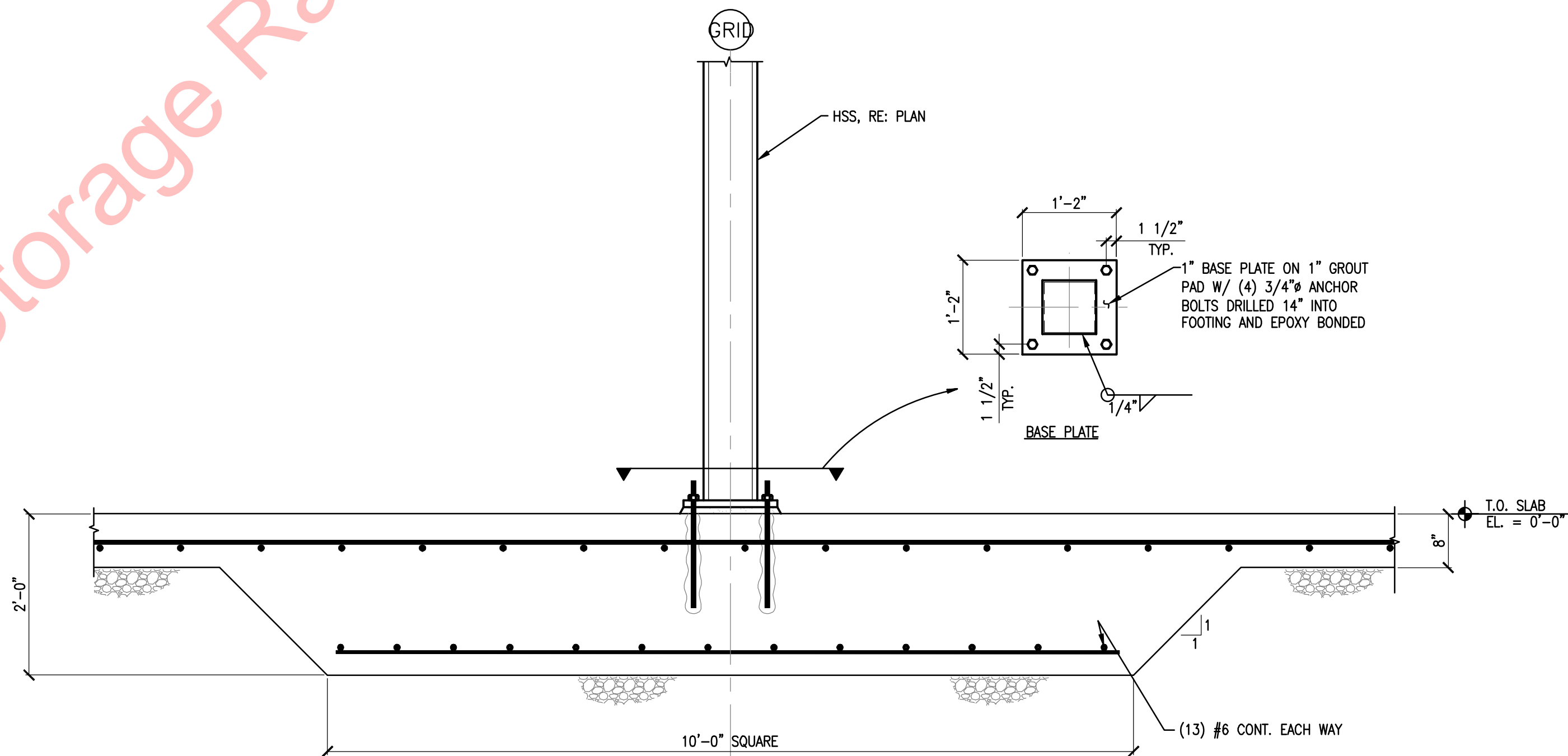
3 FOUNDATION DETAIL
S400 SCALE: 1 1/2" = 1'-0"



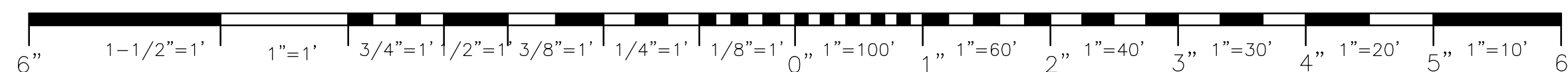
1 FOUNDATION DETAIL
S400 SCALE: 1 1/2" = 1'-0"



4 FOUNDATION DETAIL
S400 SCALE: 1 1/2" = 1'-0"



2 FOUNDATION DETAIL
S400 SCALE: 3/4" = 1'-0"



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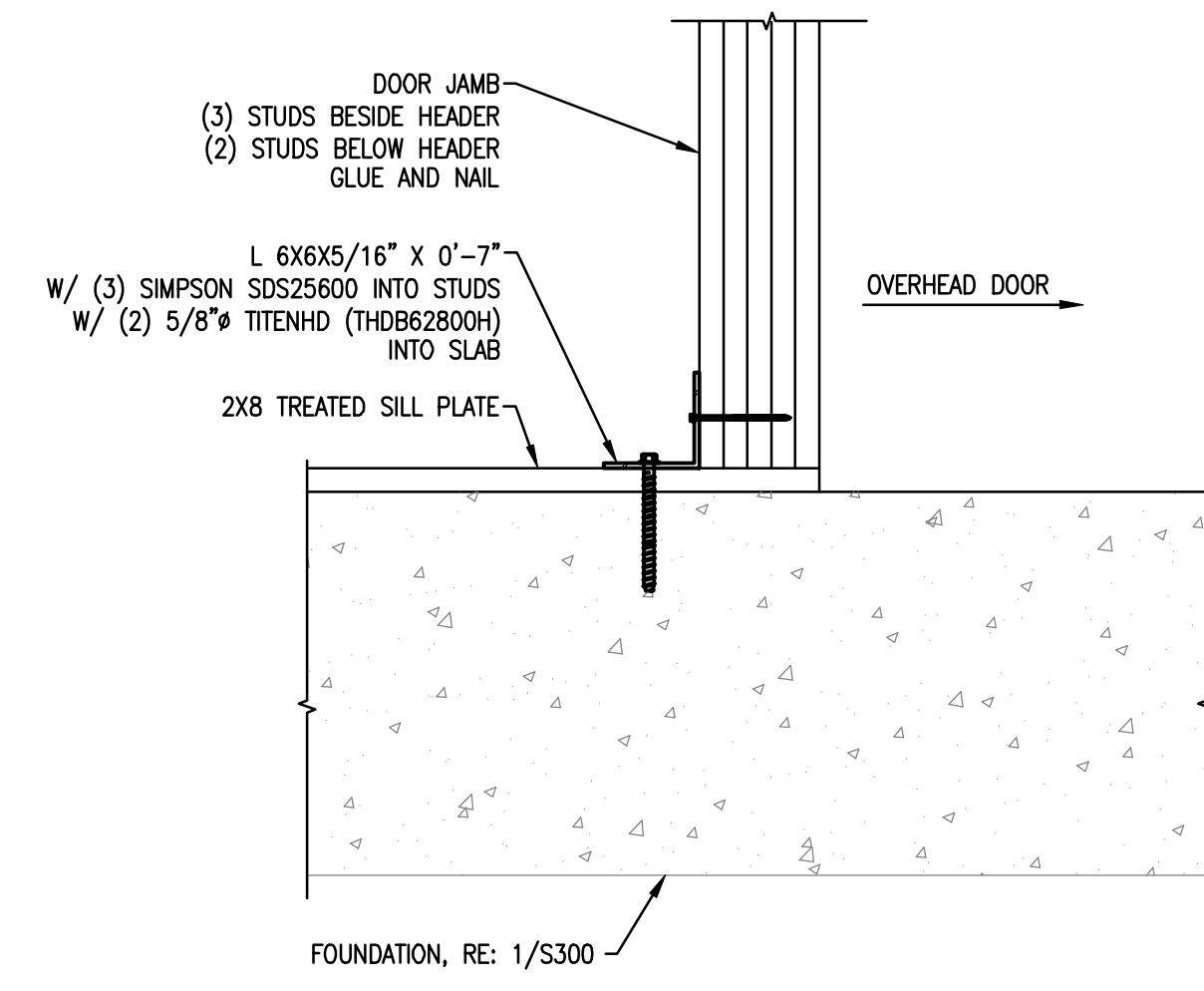
DNR Building

210 Alta Way

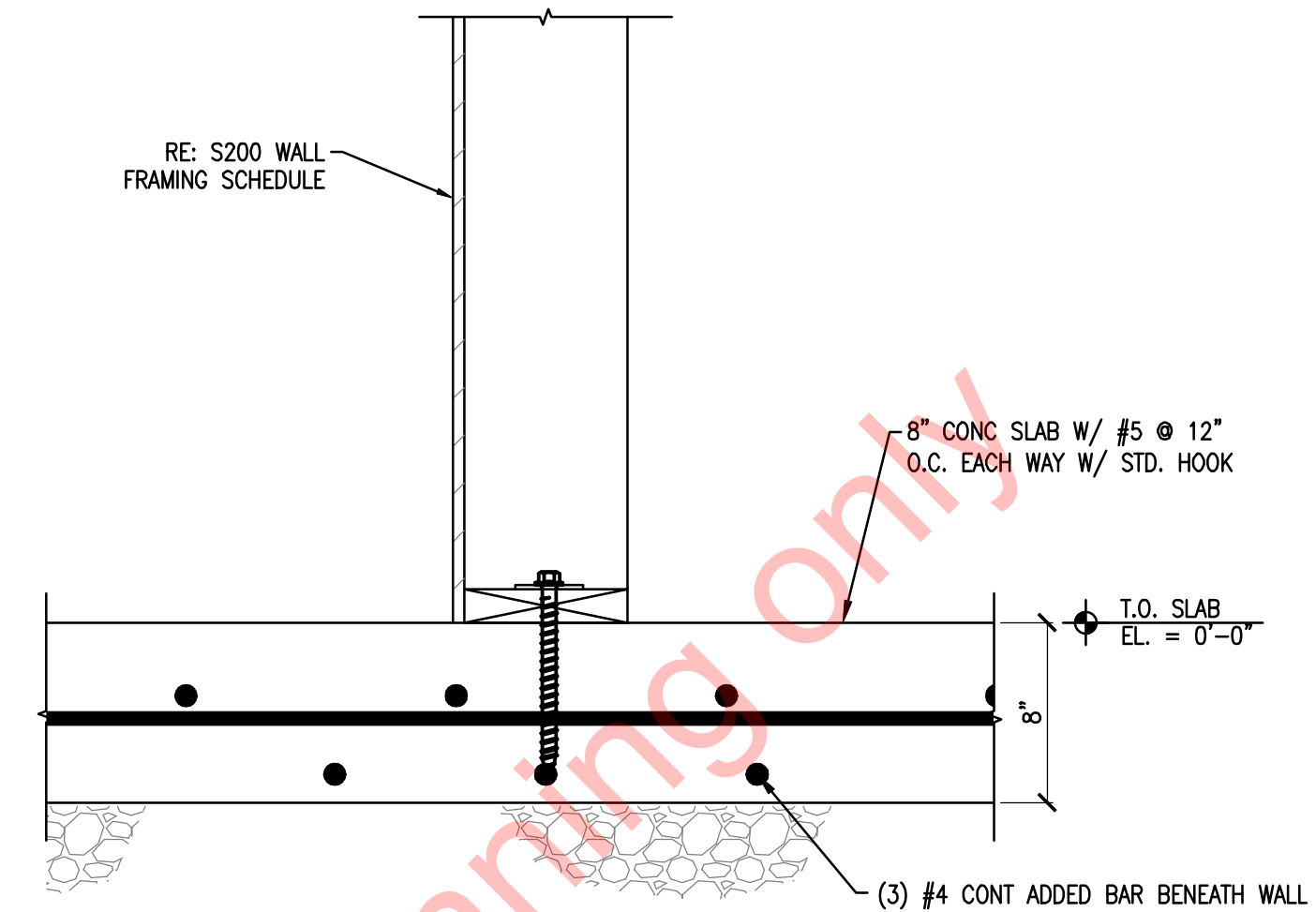
Fairbanks, Alaska

S400

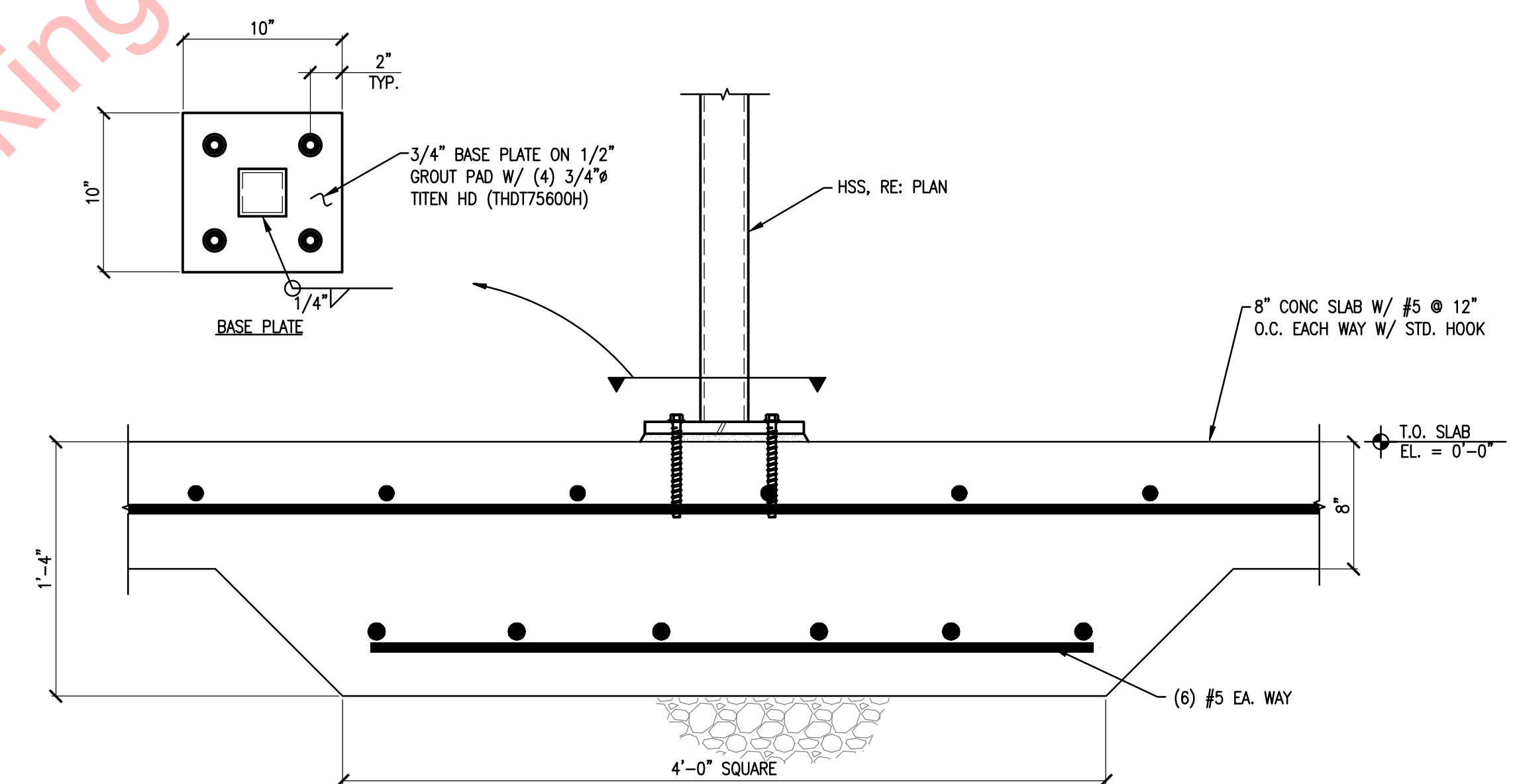
Foundation Details



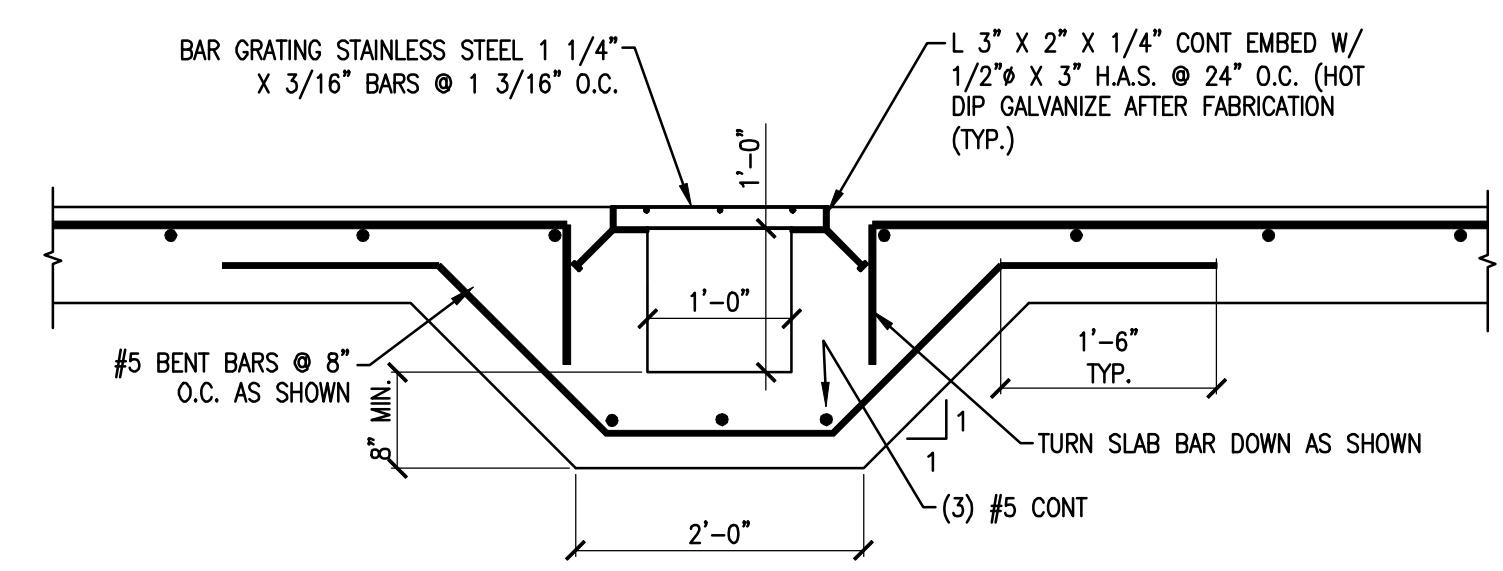
4 TYP. FOUNDATION DETAIL @ OVERHEAD DOOR JAMB
S401 SCALE: 1" = 1'-0"



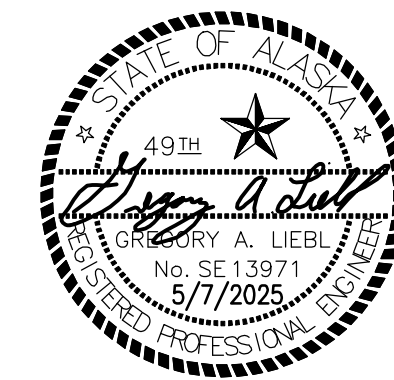
1 FOUNDATION DETAIL
S401 SCALE: 1 1/2" = 1'-0"

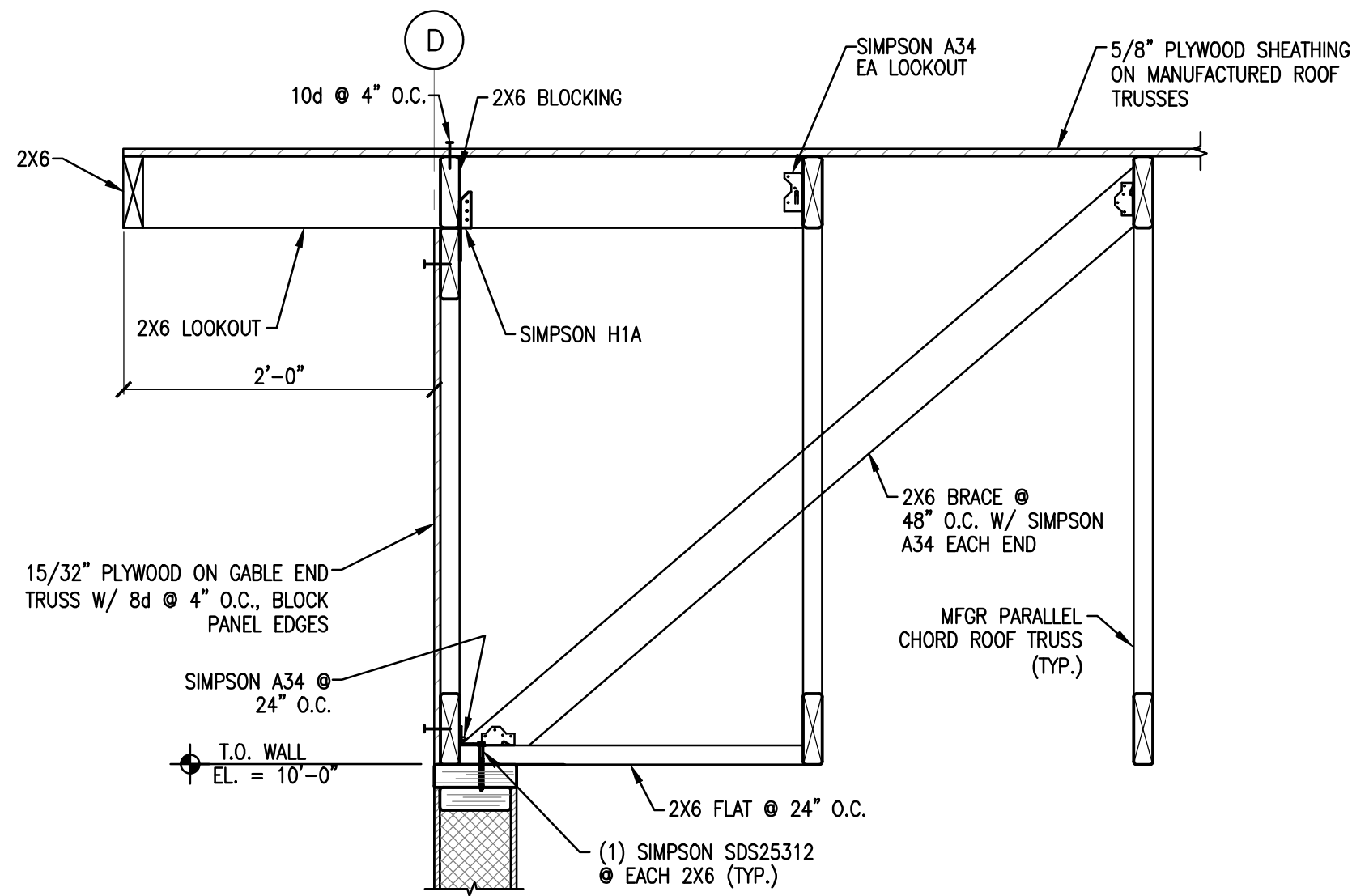


2 FOUNDATION DETAIL
S401 SCALE: 1 1/2" = 1'-0"

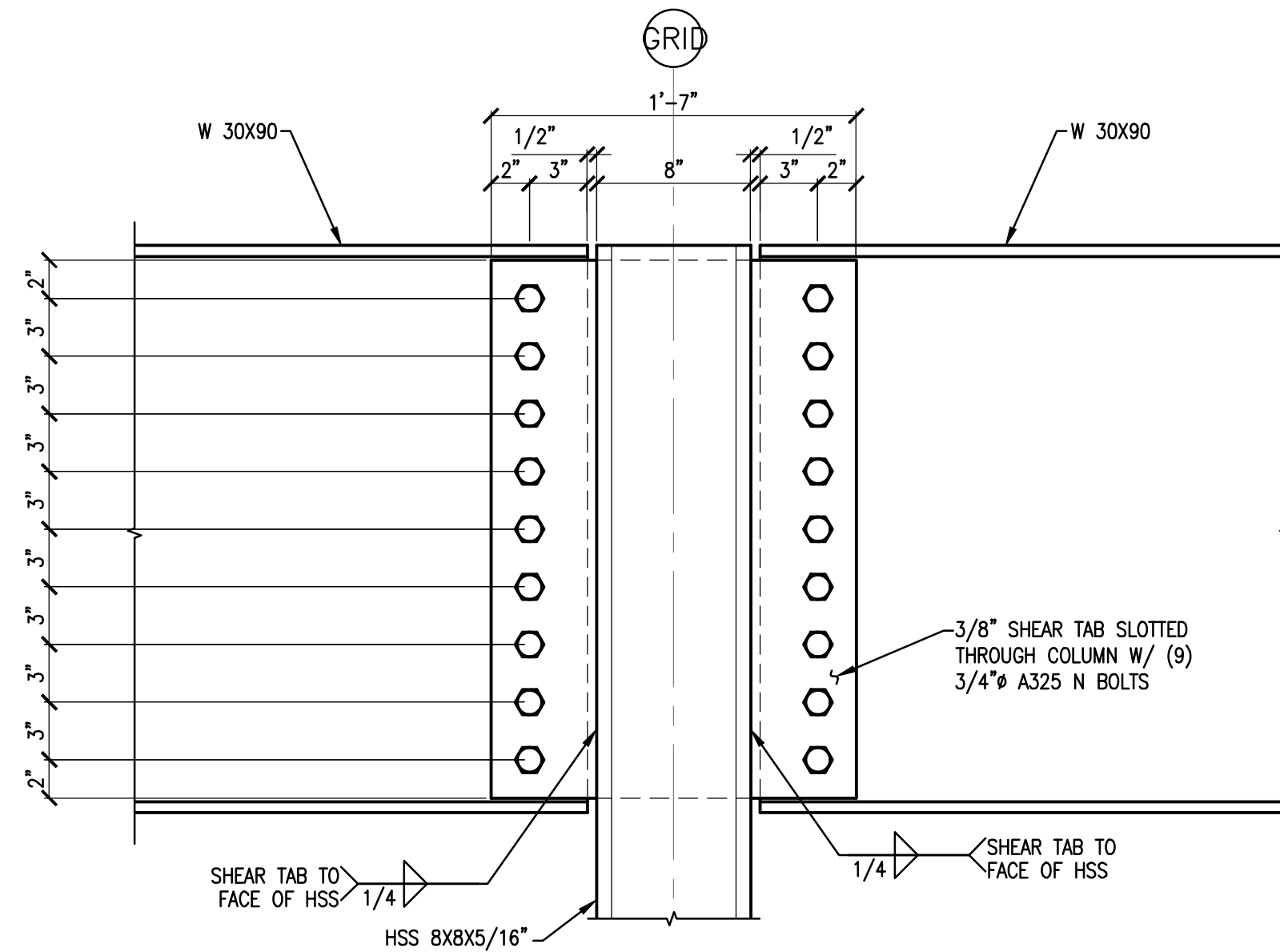


3 TYPICAL TRENCH DRAIN DETAIL
S401 SCALE: 3/4"=1'-0"

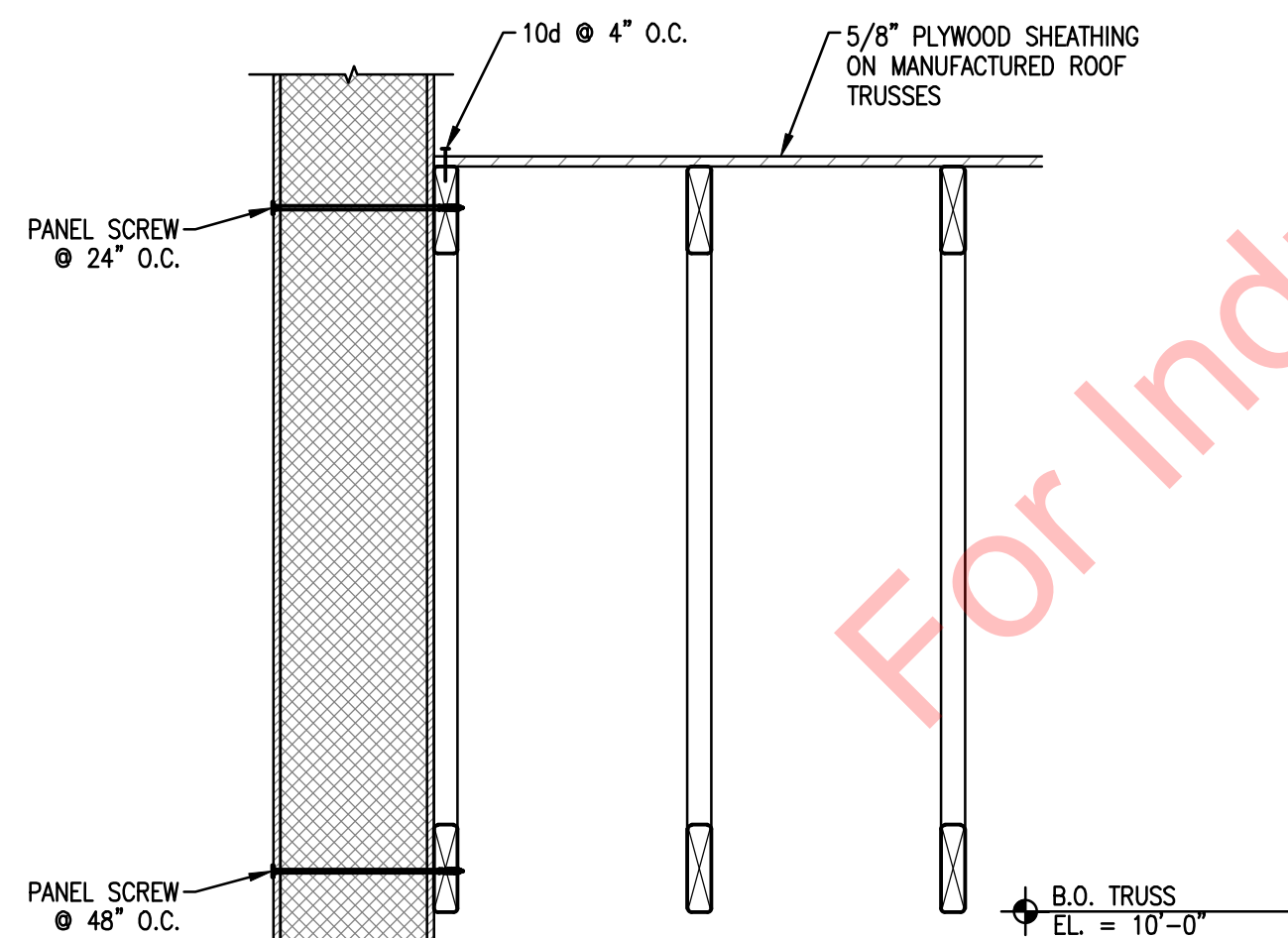




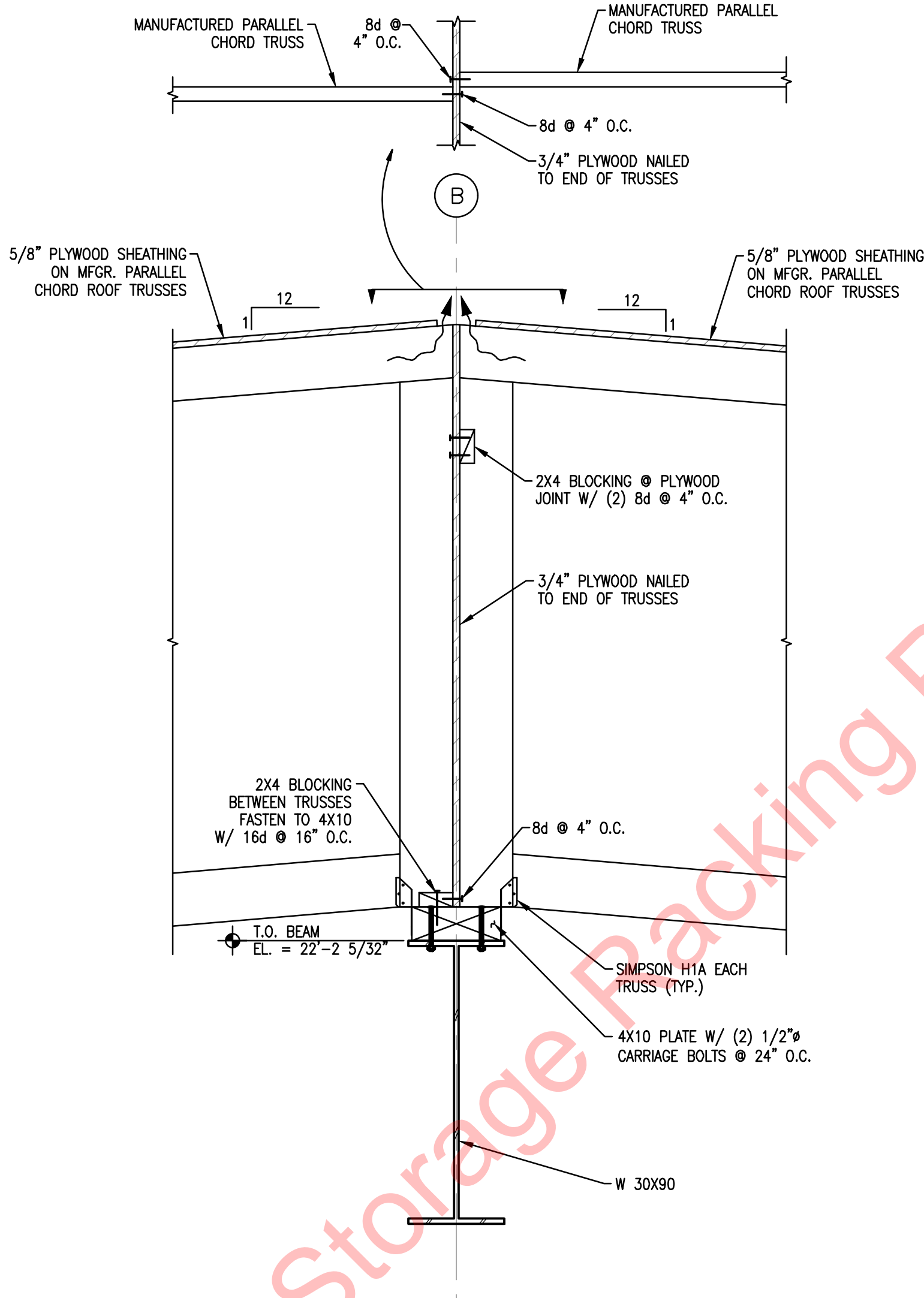
5 FRAMING DETAIL
S500 SCALE: 1" = 1'-0"



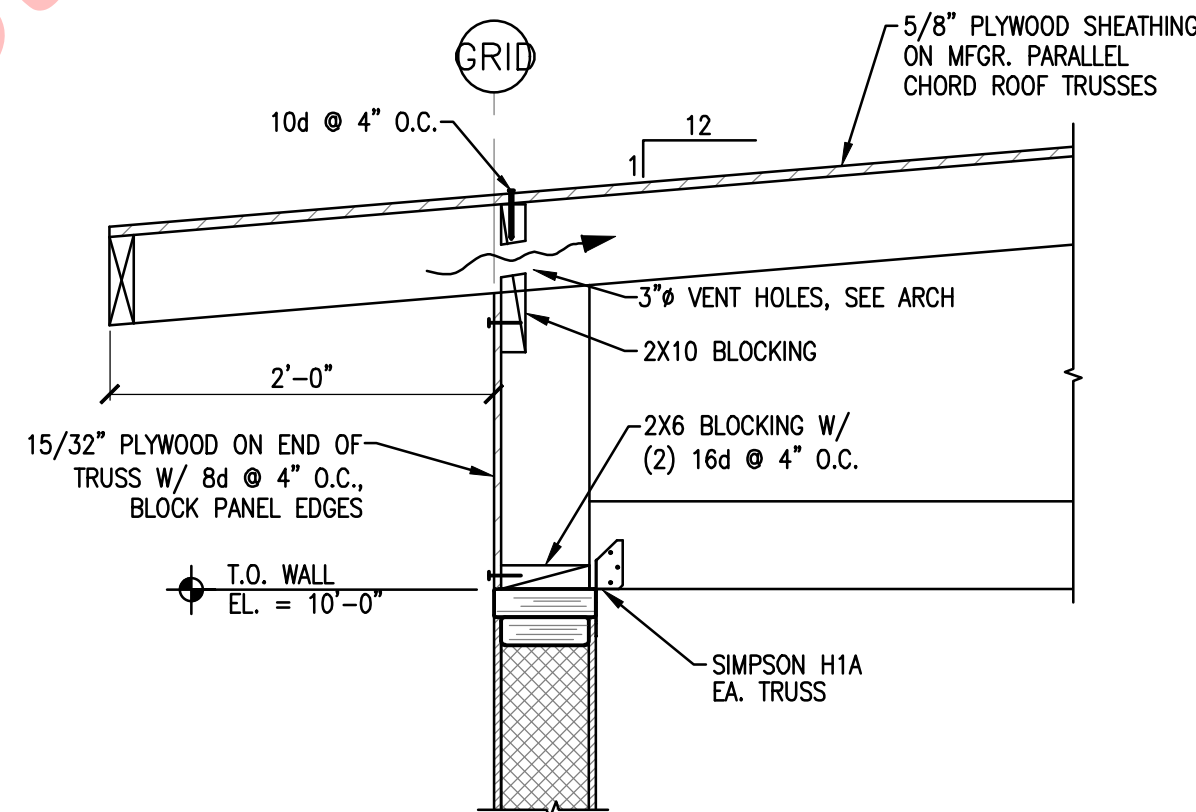
6 TYP. CONNECTION DETAIL
S500 SCALE: 1 1/2" = 1'-0"
THIS DETAIL IS TYPICAL FOR GRIDS 2, 3, 4, 5, 6, 7, 8
THIS DETAIL IS SIMILAR FOR GRIDS 1.1 AND 8.9 W/ ONE-SIDED BEAM CONNECTION



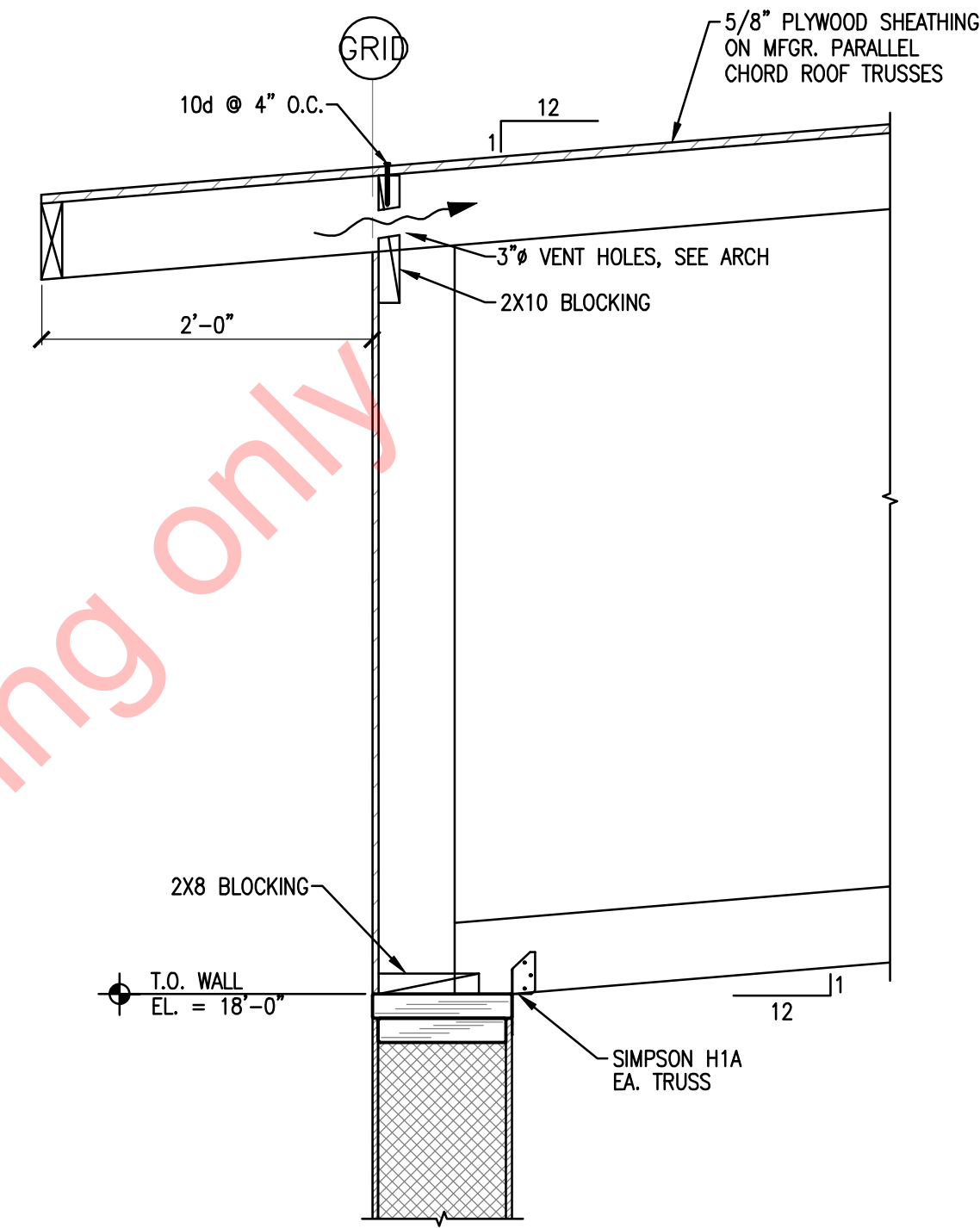
7 FRAMING DETAIL
S500 SCALE: 1" = 1'-0"



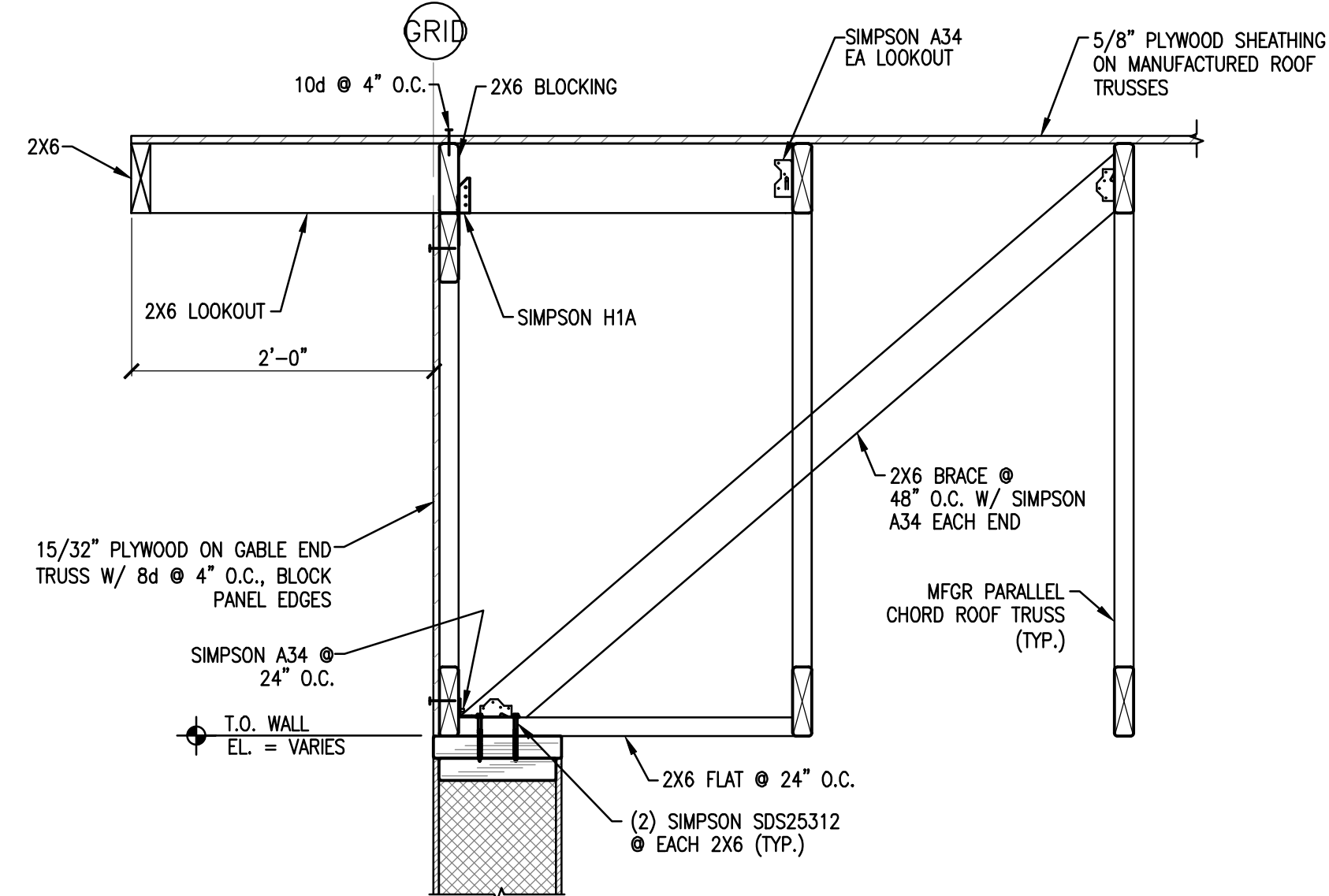
3 FRAMING DETAIL
S500 SCALE: 1" = 1'-0"



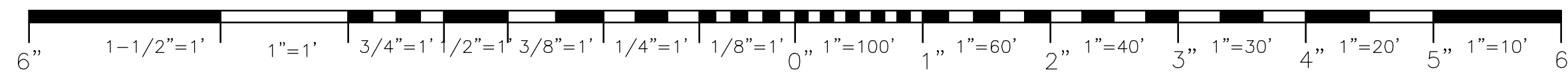
4 FRAMING DETAIL
S500 SCALE: 1" = 1'-0"



1 FRAMING DETAIL
S500 SCALE: 1" = 1'-0"



2 FRAMING DETAIL
S500 SCALE: 1" = 1'-0"



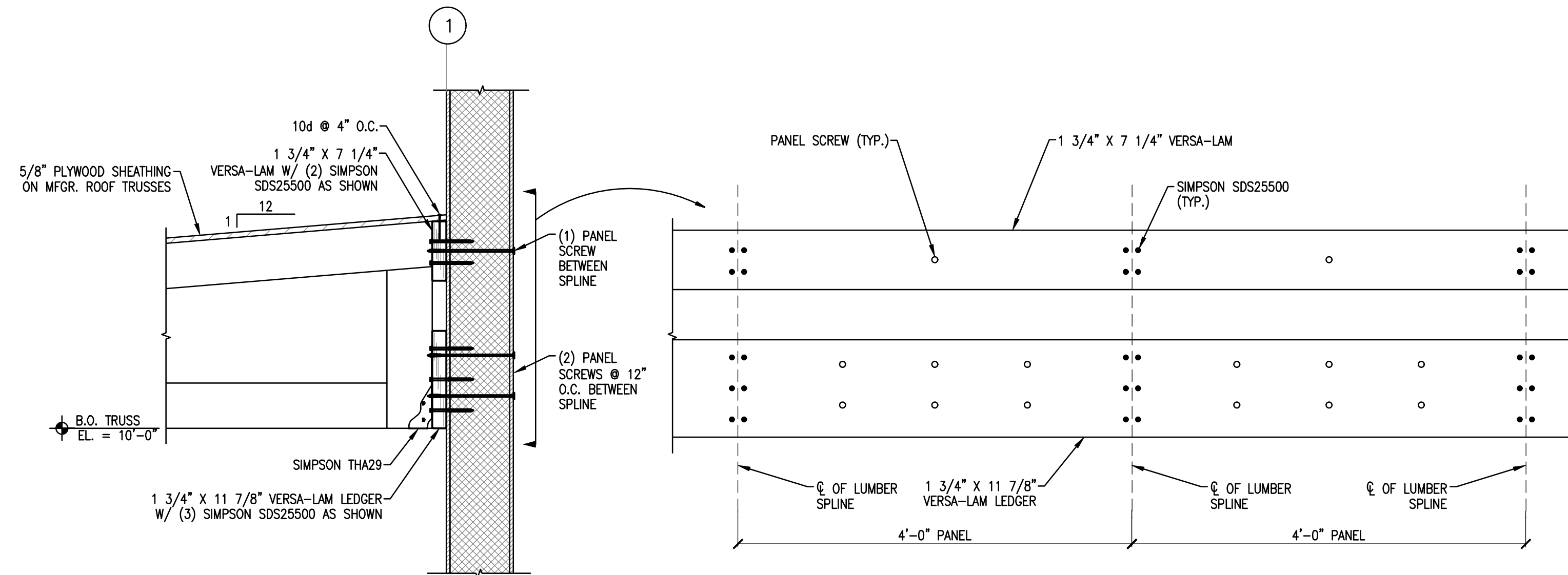
Permit Documents
5/7/2025

11X17 SHEETS: SCALE IS HALF-SIZED

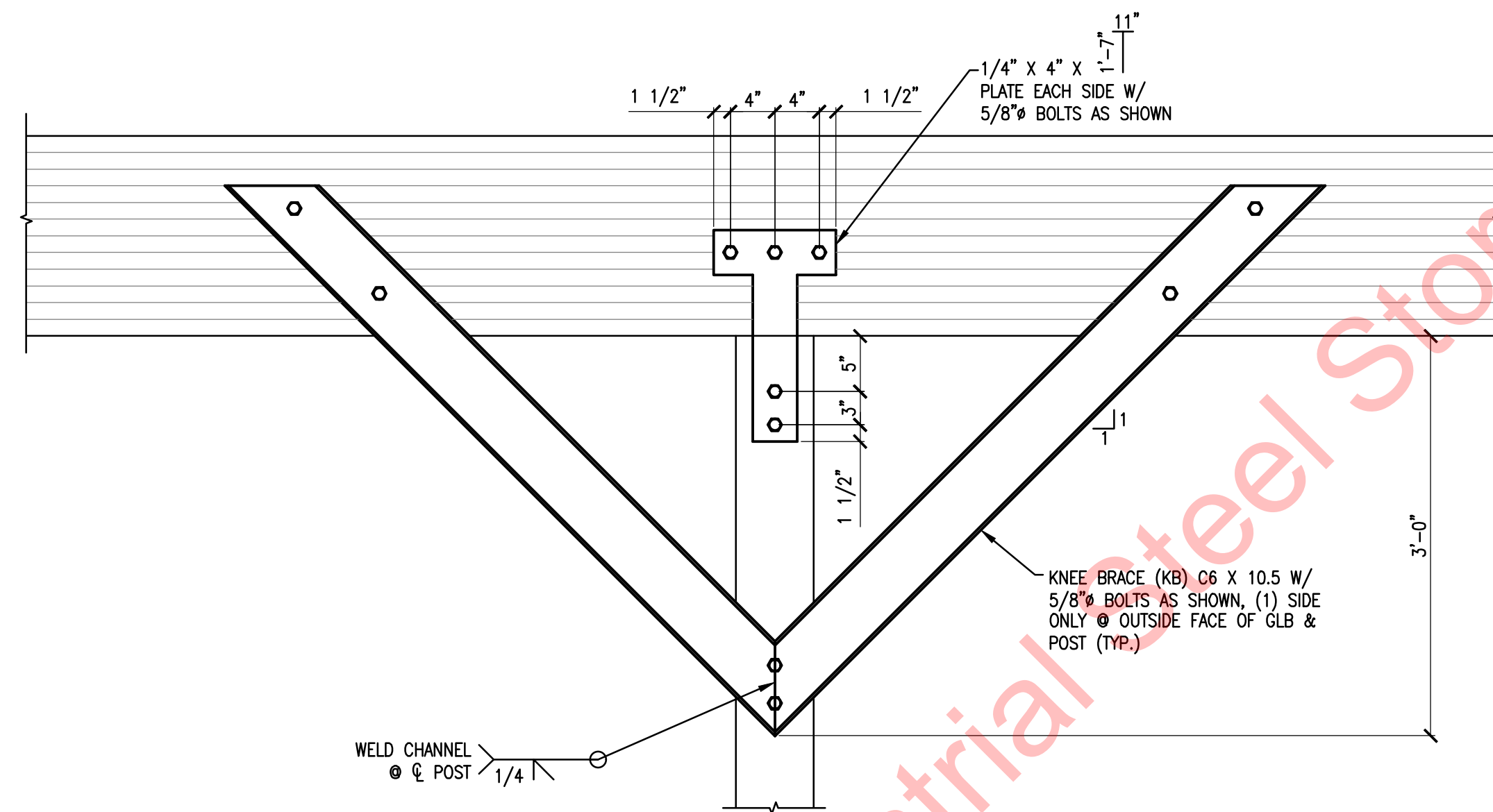
Worry Free Alaska, LLC
DNR Building
210 Alta Way
Fairbanks, Alaska

G's STRUCTURAL LLC
Gregory A. Liebl, P.E., S.E., C.E.
907-347-3108
galiebl@outlook.com

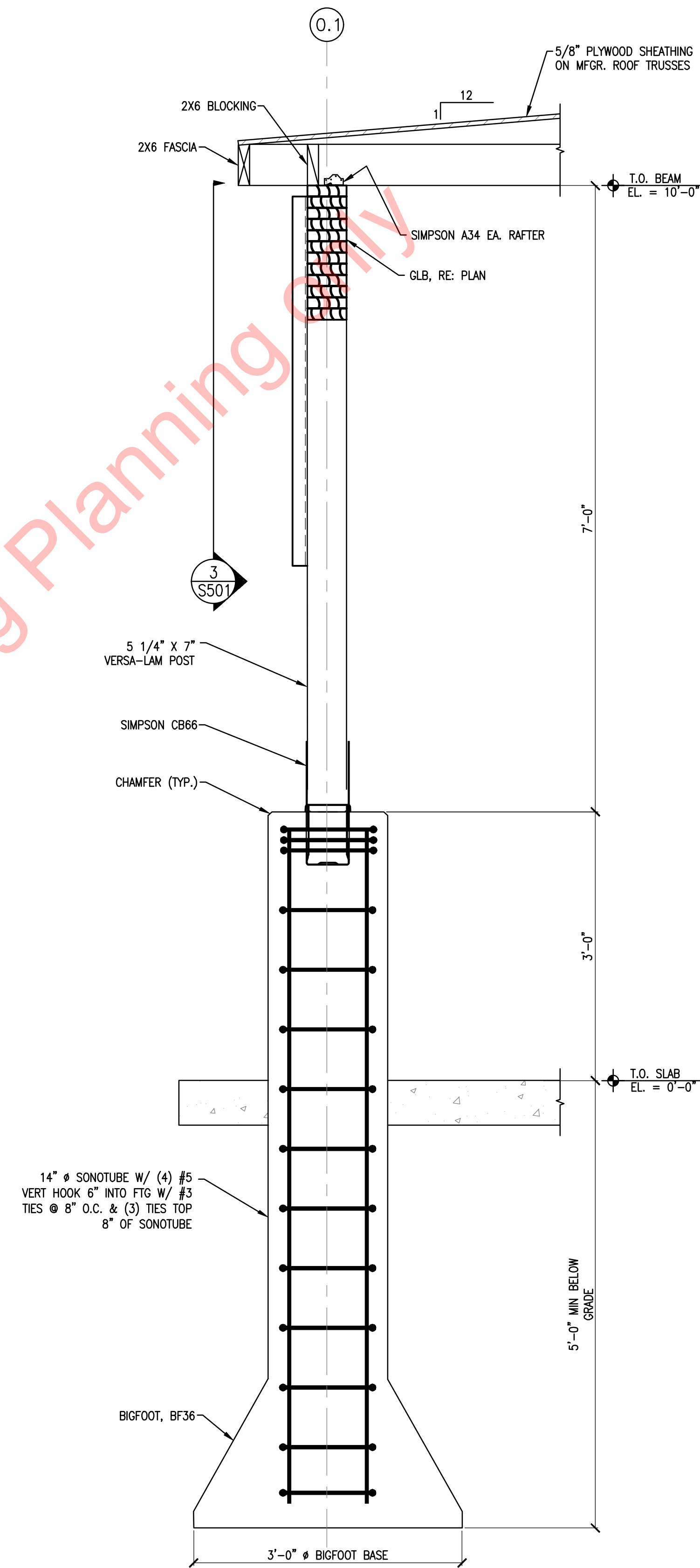
S500
Framing Details



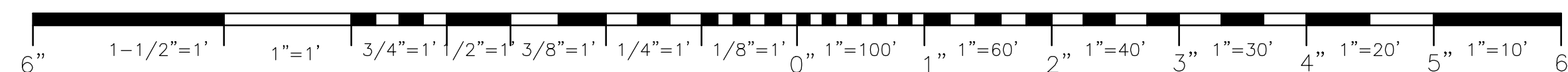
2 FRAMING DETAIL
S501 SCALE: 1" = 1'-0"



3 FRAMING DETAIL
S501 SCALE: 1" = 1'-0"



1 FOUNDATION/FRAMING DETAIL
S501 SCALE: 1" = 1'-0"



11X17 SHEETS: SCALE IS HALF-SIZED



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S501

Framing Details

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