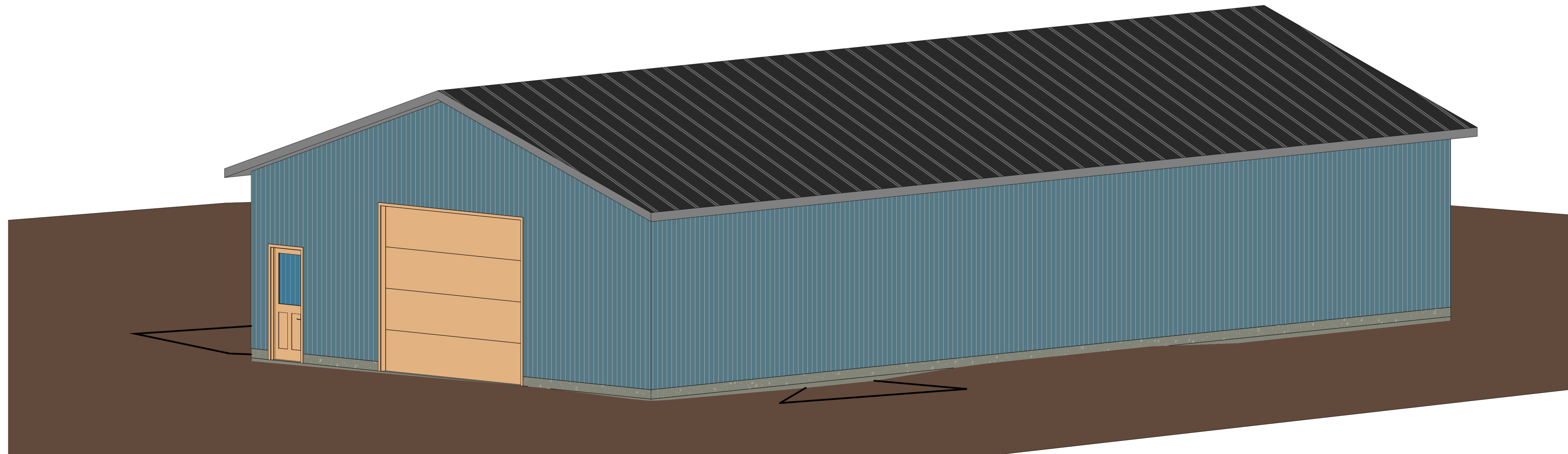


DRAWING PROVIDED FOR
HUBBLE & SON AGCOM LTD.

STORAGE BUILDING FOR 609 CHASE Rd, HILLIER, ON

DRAWING LIST	
S-0	TITLE PAGE
S-1	GENERAL NOTES
S-2	ELEVATIONS
S-3	FOUNDATION PLAN
S-4	LAYOUT PLAN
S-5	CROSS SECTIONS
S-6	WALL SECTION DETAILS
S-7	DETAILS
S-8	ROOF FRAMING PLAN
S-9	BRACING DETAILS
S-10	DIAPHRAGM FRAMING



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 HUBBLE & SON AGCOM LTD.
 404 DANIEL STREET,
 PETERBOROUGH, ON K9K 1C5

PROJECT
 609 CHASE Rd,
 HILLIER, ON K0K 2J0

DRAWING
 TITLE PAGE

PROJECT No 4028-21	DRAWN BY DH
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DATE SEPT. 2023	SCALE
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DWG. No. S-0

GENERAL

THESE PLANS ARE FOR THE STRUCTURAL REQUIREMENTS OF A 40'-0"x80'-0" STORAGE BARN

ONTARIO BUILDING CODE BUILDING CLASSIFICATION:

COMMERCIAL LOW HUMAN OCCUPANCY (MEDIUM HAZARD INDUSTRIAL)
GROUP F DIVISION 2

USE, OCCUPANCY AND BUILDING CONSTRUCTION TO COMPLY WITH O.B.C 2016

DESIGN LOADS

SITE CONDITION
-SLIPPERY ROOF REDUCTION FACTOR USED
-SLOPE REDUCTION FACTOR USED
BUILDING NOT DESIGNED FOR FUTURE EXPANSIONS

GROUND SNOW LOAD	41.8	PSF
RAIN LOAD	8.35	PSF
ROOF PITCH 4/12		
BALANCED LOAD	31.5	PSF
DESIGNED UNBALANCED LOAD	36.7	PSF
BOTTOM CHORD DEAD LOAD	7.00	PSF
TOP CHORD DEAD LOAD	5.00	PSF
BOTTOM CHORD LIVE LOAD	10.0	PSF
WIND LOAD (1/10)	6.7	PSF
ALLOWABLE SOIL BEARING PRESSURE	2500	PSF

INSTRUCTIONS AND REQUIREMENTS

CHECK ALL DIMENSIONS ON THE DRAWINGS WITH SITE CONDITIONS. REPORT ANY INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK.
DO NOT SCALE DRAWINGS.

EXECUTE WORK TO MEET OR EXCEED THE FOLLOWING:

- CURRENT ONTARIO BUILDING CODE
- OCCUPATIONAL HEALTH AND SAFETY ACT
- CANADIAN CONSTRUCTION SAFETY CODE

STANDARD DETAILS

STANDARD DETAILS THAT ARE PROVIDED WITH THESE PLANS ARE PROVIDED TO ILLUSTRATE A SPECIFIC DETAIL OR CONSTRUCTION CONCEPT. THEY WERE NOT DRAWN SPECIFICALLY FOR THIS PROJECT AND MAY SHOW BACKGROUND DETAILS THAT ARE NOT IDENTICAL TO THIS PROJECT.

NOTIFICATIONS

THE CONTRACTOR IS ADVISED TO NOTIFY THE BUILDING AND PLANNING DEPARTMENT AT THE FOLLOWING CONSTRUCTION STAGES:

- THE COMMENCEMENT OF THE "CONSTRUCTION" OF THE "BUILDING".
- THE READINESS TO "CONSTRUCT" THE FOOTINGS.
- THE SUBSTANTIAL COMPLETION OF THE FOOTINGS AND FOUNDATIONS.
- THE SUBSTANTIAL COMPLETION OF STRUCTURAL FRAMING AND BRACING.
- THE SUBSTANTIAL COMPLETION OF THE BUILDING AND SITE GRADING.

SHOP DRAWINGS

SUBMIT SHOP DRAWING FOR THE PREFABRICATED TRUSSES TO THE BUILDING DEPARTMENT AND THE CONSULTANT FOR APPROVAL PRIOR TO INSTALLATION.

FIELD REVIEW

IT IS A REQUIREMENT OF THE ONTARIO BUILDING CODE THAT ALL CONSTRUCTION RESULTING FROM DRAWINGS PREPARED BY AN ENGINEER OR AN ARCHITECT ARE TO BE REVIEWED BY A QUALIFIED CONSULTANT IN THEIR RESPECTIVE DISCIPLINE. IF YOU ARE NOT ENGAGED TO PROVIDE THIS REVIEW PLEASE FORWARD A COPY OF ALL REPORTS TO THE CONSULTANT BFP ENGINEERING SOLUTIONS INC. IT IS THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT THE REQUIRED REVIEW IS CARRIED OUT TO THE BUILDING OFFICIALS SATISFACTION.

EXCAVATION AND BACKFILLING

EXCAVATE AS REQUIRED TO CARRY OUT WORK. STRIP ALL TOPSOIL.

KEEP BOTTOMS OF EXCAVATION CLEAN, DRY, UNDISTURBED AND FROST-FREE.

PLACE BACKFILL IN 6 INCH LIFTS.

COMPACT EACH LIFT TO 95% STANDARD PROCTOR DENSITY.

DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING

LATERAL SUPPORT ARE COMPLETED. PLACE BACKFILL SIMULTANEOUS ON THE BOTH SIDES OF OTHER WALLS BELOW GRADE.

PROVIDE POSITIVE SURFACE DRAINAGE WHEN SELECTING FINISH GRADE.

CONCRETE

CONCRETE WORK IS TO CONFORM TO CSA STANDARD CAN3-A23.3 MATERIALS:

COMPRESSIVE STRENGTH:
FOOTINGS: 20 MPa AT 28 DAYS

WALLS & FLOORS: 25 MPa AT 28 DAYS

EXPOSURE CLASS F-2 TO CAN/CSA-A2.1 -M90
AGGREGATE 3/4 INCH MAX. SIZE

SLUMP 4 INCHES MAX.
ADMIXTURE TO CAN3-A266.1

TIMBER

LUMBER DESIGNED AS PER CSA 086-14 ENGINEERING DESIGN IN LUMBER.

LUMBER IS TO BE SOFTWOOD, S4S, MOISTURE CONTENT NOT GREATER THAN 19% AT THE TIME OF INSTALLATION. ALL LUMBER IS TO BE IDENTIFIED BY THE GRADE STAMP OF AGENCY CERTIFIED BY CLSAB.

FRAMING AND BOARD LUMBER IS TO BE IN ACCORDANCE WITH TABLE 9.3.2.1 OF O.B.C UNLESS NOTED OTHERWISE ON THE PLAN.

LAMINATED VENEER LUMBER (LVL) BEAMS TO BE GRADE 2.0 2900Fb. IF EXPOSED TO WEATHER THEY ARE REQUIRED TO BE PRESSURED TREATED.

ALL LUMBER TO BE S.P.F No2 OR BETTER. EXCEPT 6x8 AND 8x8 POSTS WHICH ARE REQUIRED TO BE S.P.F No1 OR BETTER.

FRAMING

INSTALL MEMBERS TRUE TO LINE, LEVELS AND CONSTRUCT CONTINUOUS MEMBER FROM PIECES OF THE LONGEST PRACTICAL LENGTH.

INSTALL SPANNING MEMBERS WITH THE CROWN EDGE UP.

ALL FASTENERS/CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD TO BE HOT DIP GALVANIZED OR TO BE ACQ RATED.

ISOLATE METAL GUSSET PLATES OF TRUSSES FROM CONTACT WITH PRESSURE TREATED WOOD BY USE OF PLASTIC OR WOOD ISOLATION STRIPS.

WIND BRACING SHALL BE PROVIDED @45 DEGREES ANGLES ON ALL EXTERIOR WALL CORNER AND INTERMEDIATE LOCATIONS AS INDICATED ON PLANS.

THE CONTRACTOR SHALL ENDURE ANY TEMPORARY BRACING OF ALL TRUSS ARE ADEQUATE.

WOOD CONNECTORS

STRUCTURAL NAILING IS TO CONFORM TO CSA STANDARD B111- 1974. THE FOLLOWING MINIMUM DIMENSIONS MUST BE OBSERVED FOR NAILED JOINTS, WHERE D=DIAMETER OF NAIL & S=SPACING OF NAIL

S	16D	PARALLEL TO GRAIN
S	8D	PERPENDICULAR TO GRAIN
EDGE DISTANCE	4D	
END DISTANCE	8D	
PENETRATION Lp	0.5 LENGTH	

PREFABRICATED WOOD TRUSSES

FABRICATE ROOF TRUSSES TO CSA 086.1 AND TPIC STANDARDS.

PREFABRICATE WOOD TRUSSES ARE TO BE DESIGNED TO CARRY SNOW AND WIND LOADS IN ACCORDANCE WITH THE CANADIAN FARM BUILDING CODES 1995. DESIGN LOADS ARE PROVIDED IN THE DRAWING NOTES.

SHOP DRAWINGS ARE TO BEAR THE STAMP OF A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN ONTARIO.

IDENTIFY LUMBER BY OFFICIAL GRADE OF LUMBER, SPACES AND CONDITION OF SEASONING AT THE TIME OF MANUFACTURE.

CONNECTOR PLATES, GALVANIZED SHEET STEEL TO ASTM A446M-80, GRADE A WITH G90 COATING DESIGNATION, TEETH UNIFORMLY SPACED AND FORMED.

ROOF WOOD TRUSSES SHALL BE DESIGNED WITH A MAXIMUM SPACING OF 48 INCHES FOR LOW OCCUPANCY FARM BUILDINGS.

LATERAL BRACING DETAILS ARE TO BE SUPPLIED BY TRUSS MANUFACTURER. ERECTION BRACING SHALL BE INSTALLED TO HOLD THE TRUSS TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND OTHER PERMANENT

COMPONENTS ARE IN PLACE. ERECTION BRACING REQUIRED IS NOT SHOWN ON THESE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE ERECTION BRACING DURING CONSTRUCTION.

BFP ENGINEERING SOLUTIONS IS NOT RESPONSIBLE FOR SPECIFYING THE REQUIRED CONSTRUCTION BRACING. FOR HORIZONTAL AND VERTICAL TRUSS BRACING REFER TO THE TRUSS MANUFACTURER'S DRAWINGS.

METAL CLADDING

EXTERIOR SIDING TO BE 29 GAUGE HIGH TENSILE. ALL MATERIAL IS TO BE AS PER ASTM-A-446, GRADE A, Z275 (G-90).

METAL ROOFING IS TO BE 28 GA. MATERIAL DESIGNED FOR ROOF USE OR 29 GAUGE HIGH TENSILE MATERIAL.

CLOSURES AND FLASHING ARE TO MATCH THE SIDING IN COLOUR AND GAUGE. COLOURS ARE TO BE CHOSEN BY OWNER FROM MANUFACTURER'S STANDARD COLOUR RANGE.

MINIMUM NAIL SPACING			
NAIL SIZE	3"	3 1/2"	4"
S (PAALLEL TO GRAIN)	2"	2 1/2"	2 3/4"
S (PERPENDICULAR TO GRAIN)	1"	1 1/4"	1 3/8"
MINIMUM EDGE DISTANCE	1/2"	5/8"	3/4"
MINIMUM END DISTANCE	1 1/2"	1 7/8"	2"
MINIMUM EMBEDMENT	1 1/2"	1 3/4"	2"

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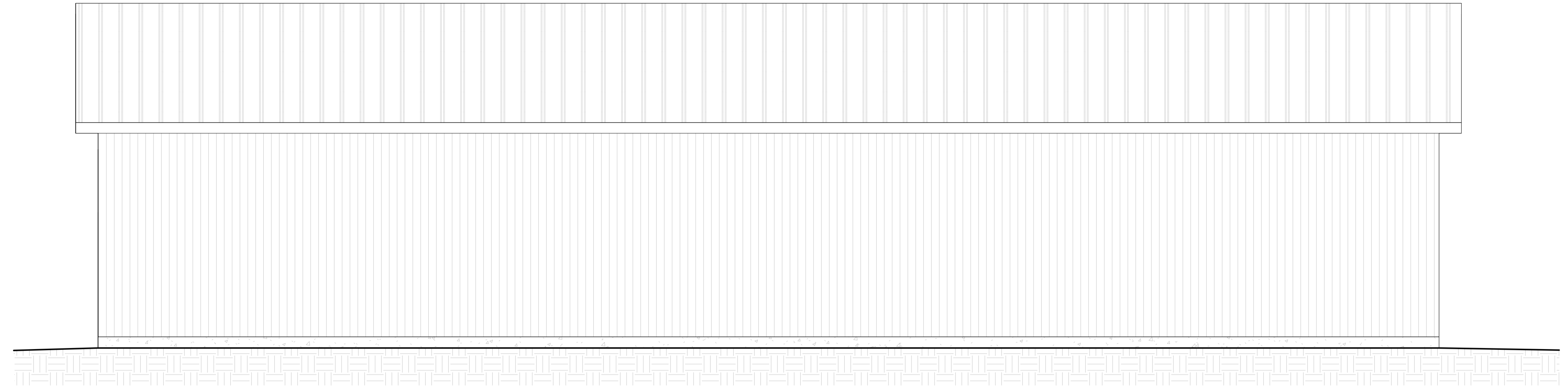
PROJECT
609 CHASE Rd,
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DRAWING
GENERAL NOTES

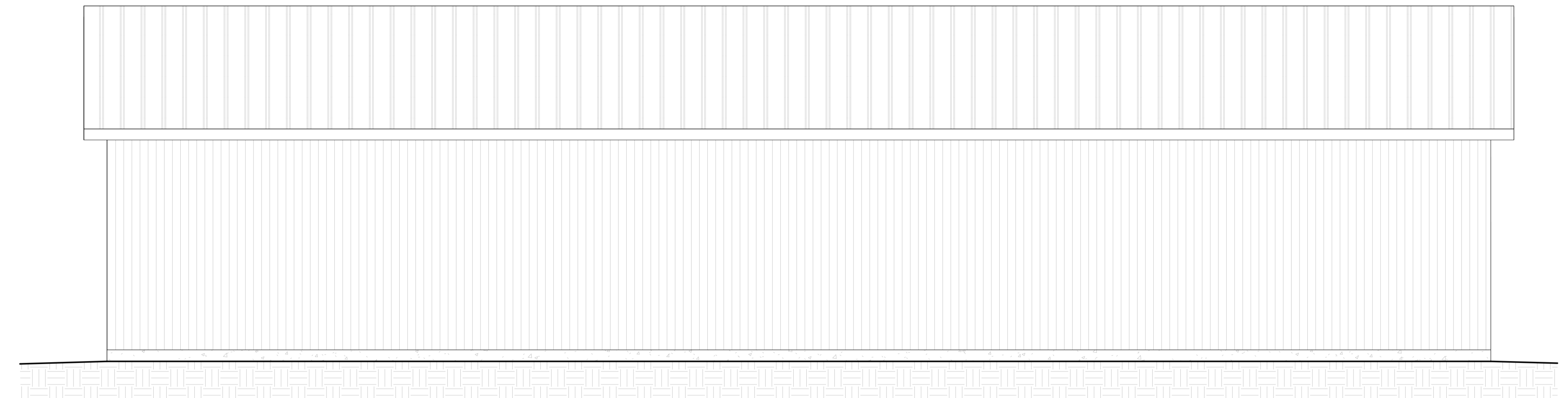
PROJECT No 4028-21 DRAWN BY DH

DATE SEPT. 2023 SCALE

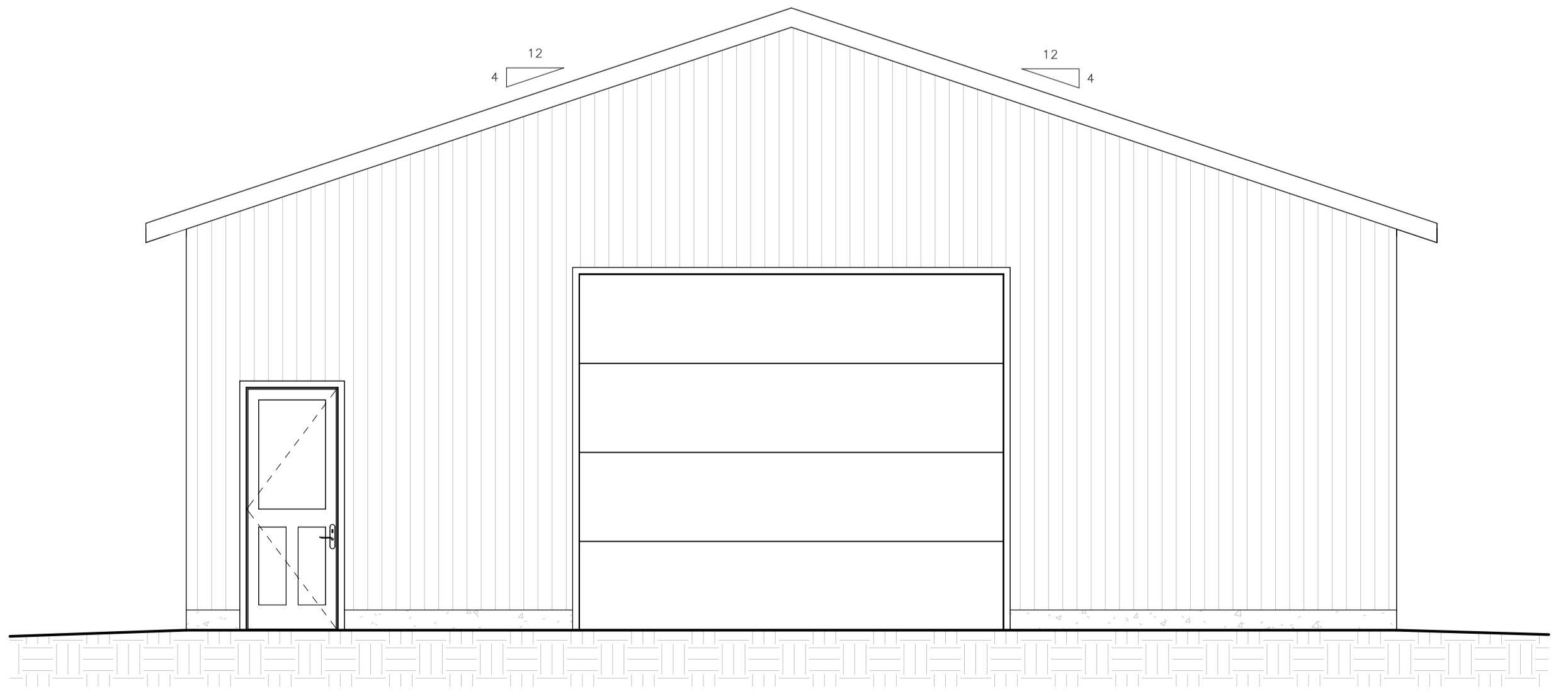
DWG. No. **S-1**



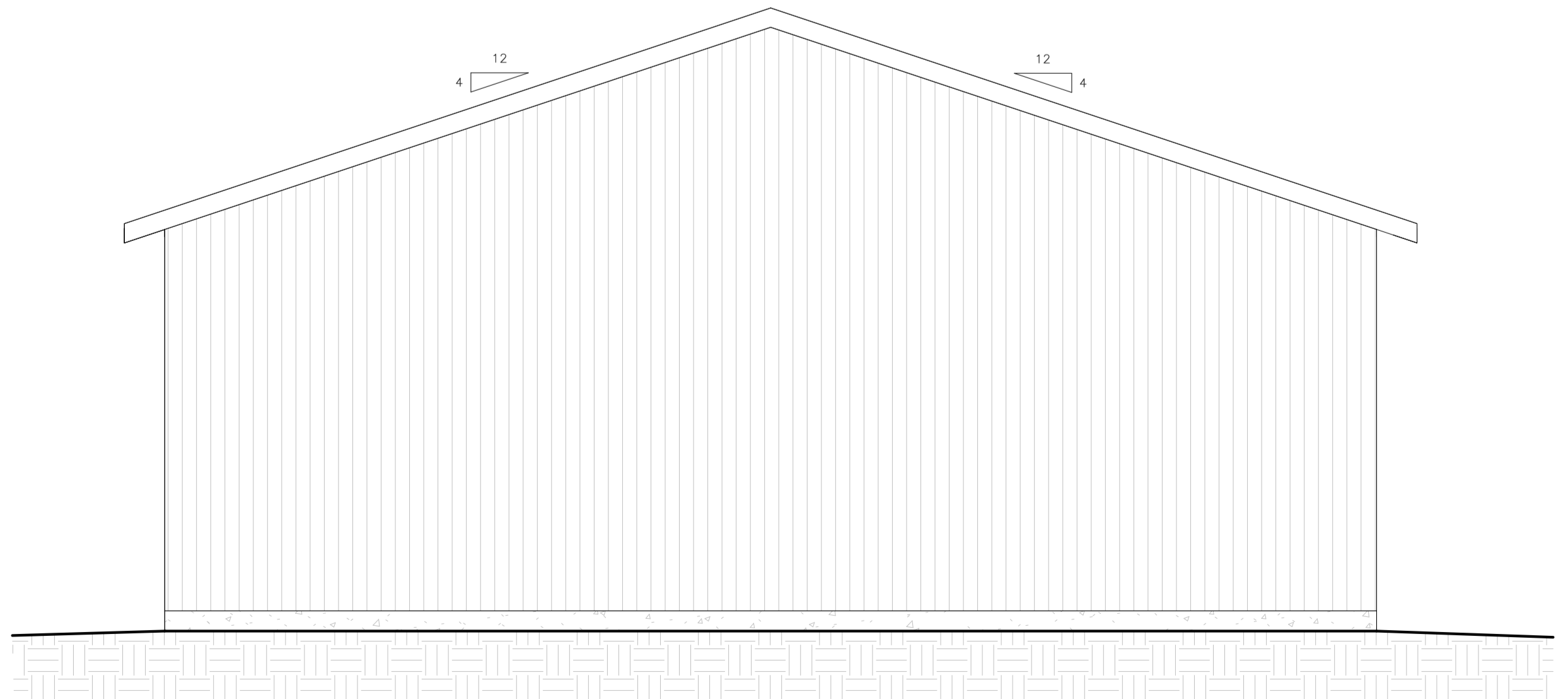
1 NORTH ELEVATION
S-2 SCALE 1/4" = 1'-0"



2 SOUTH ELEVATION
S-2 SCALE 1/4" = 1'-0"



3 EAST ELEVATION
S-2 SCALE 1/4" = 1'-0"



4 WEST END ELEVATION
S-2 SCALE 1/4" = 1'-0"

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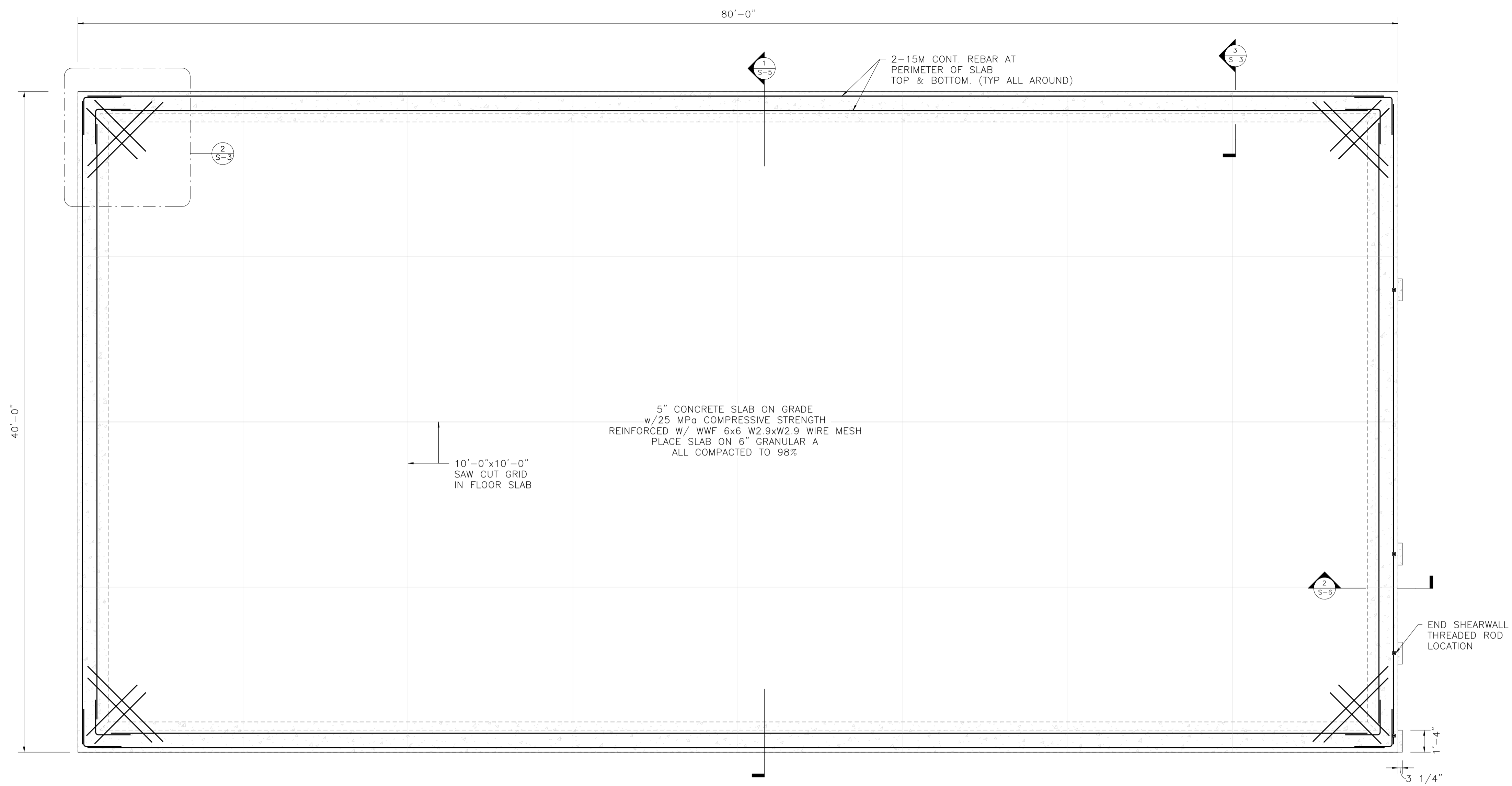
PROJECT
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DRAWING
ELEVATIONS

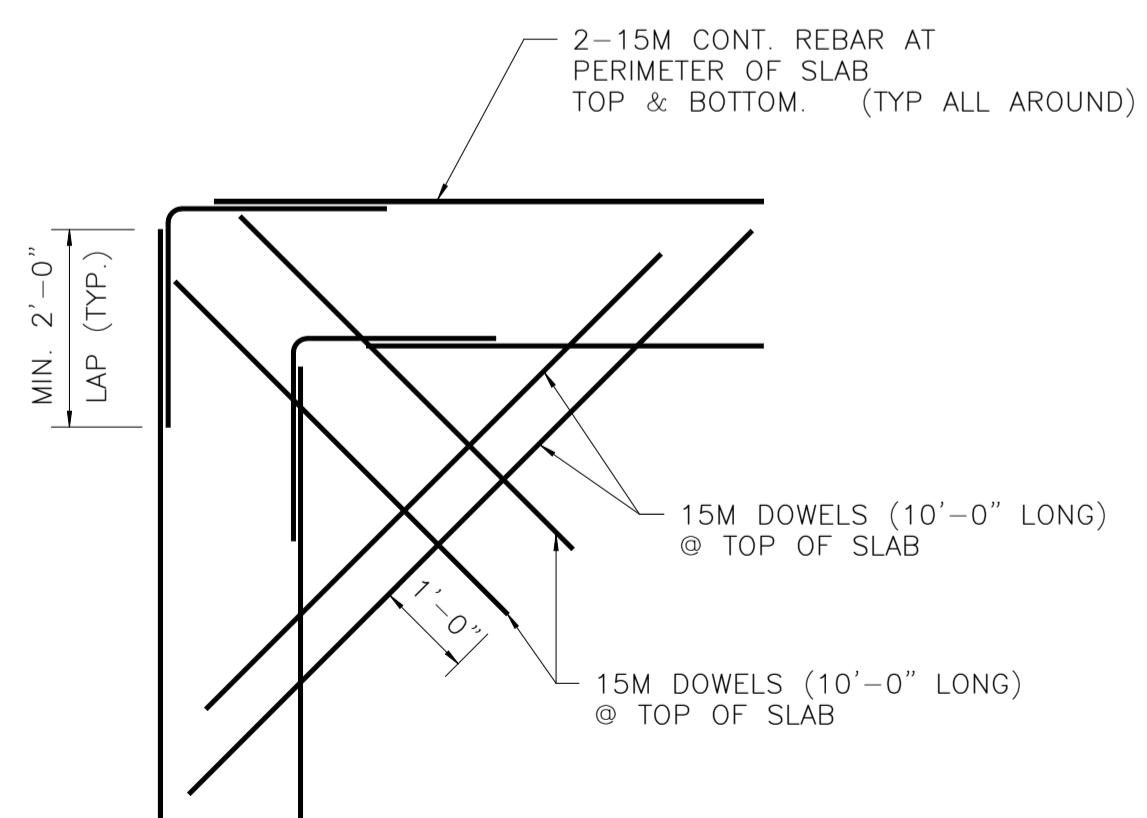
PROJECT No 4028-21	DRAWN BY DH
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DATE SEPT. 2023	SCALE 1/4" = 1'-0"
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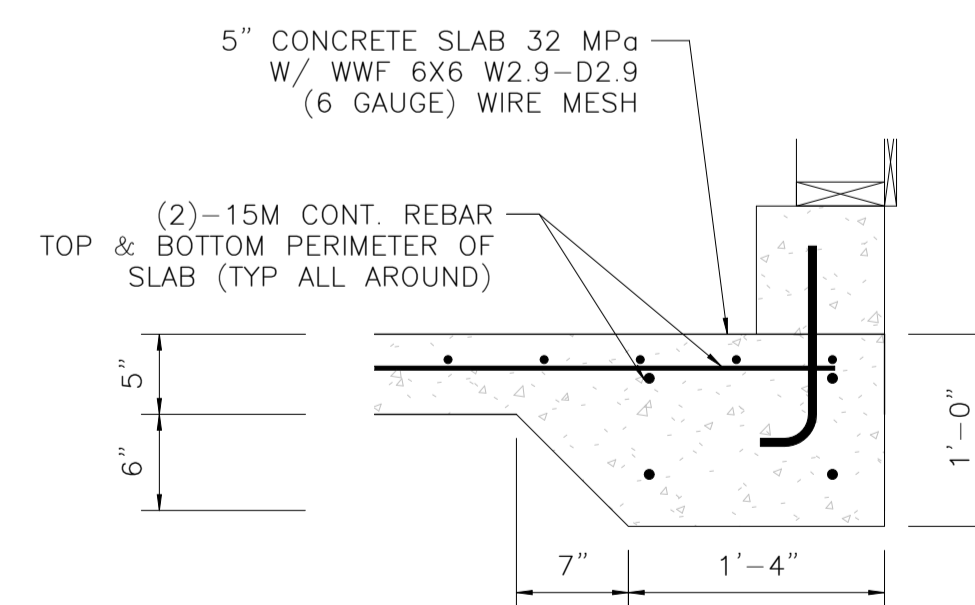
DWG. No.
S-2



1 FOUNDATION PLAN
S-3 SCALE 1/4" = 1'-0"



2 CORNER R/F DETAIL
S-3 SCALE 1/2" = 1'-0"



3 SECTION DETAIL-SLAB EDGE (TYP.)
S-3 SCALE 1" = 1'-0"

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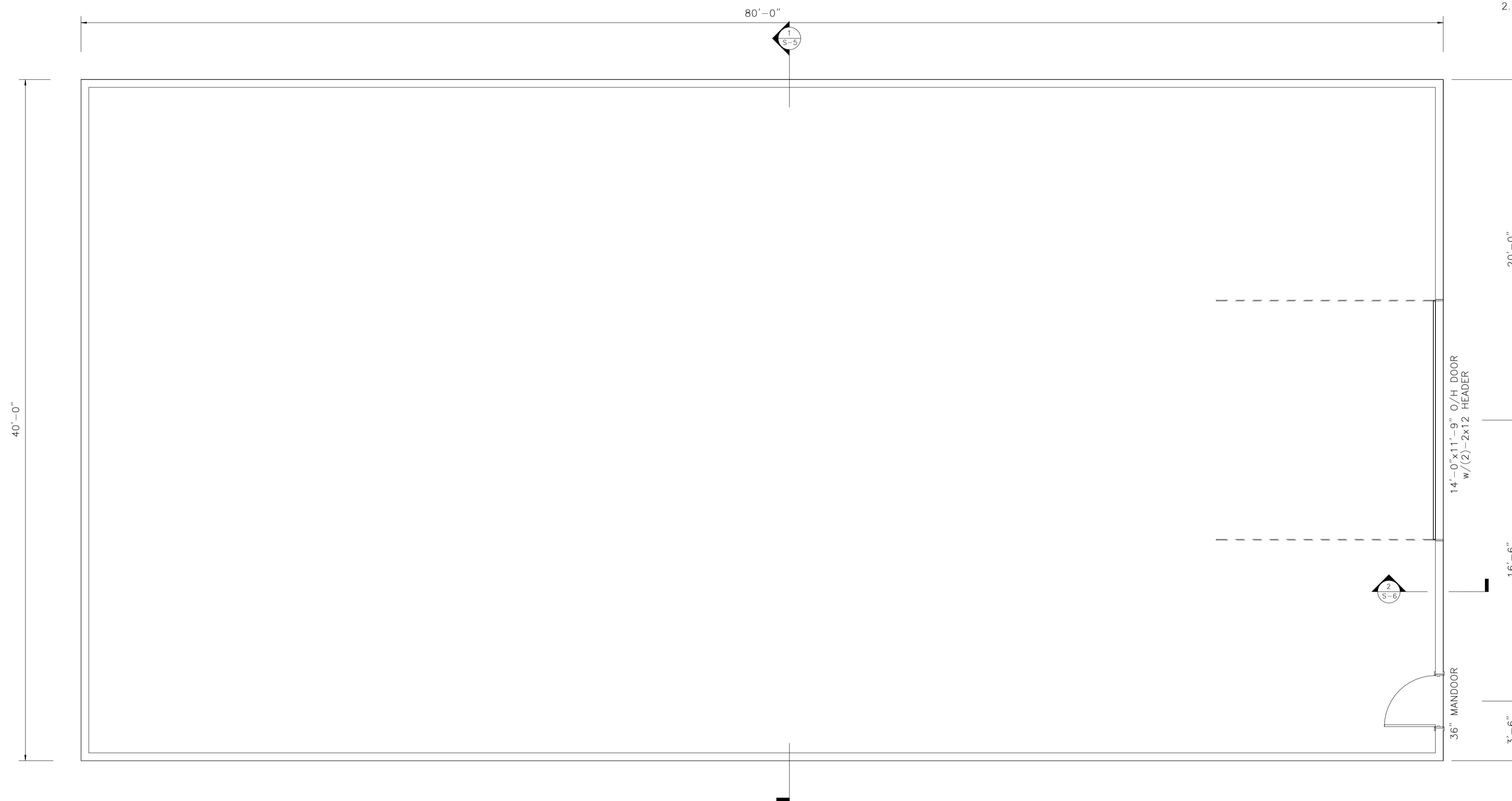
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DRAWING
FOUNDATION PLAN

PROJECT No 4028-21
DRAWN BY DH

DATE SEPT. 2023
SCALE AS INDICATED

DWG. No. **S-3**



- LINTEL SCHEDULE:
1. ALL NON-BEARING WALLS LINTELS TO BE MIN. (2)-2x8, UNLESS NOTED OTHERWISE.
 2. ALL THE EXTERIOR WALL LINTELS TO BE MIN. (2)-2x10 w/MIN (2) 2x6 BU COLUMN EACH END, UNLESS NOTED OTHERWISE.

1 LAYOUT PLAN
S-4 SCALE 1/4" = 1'-0"

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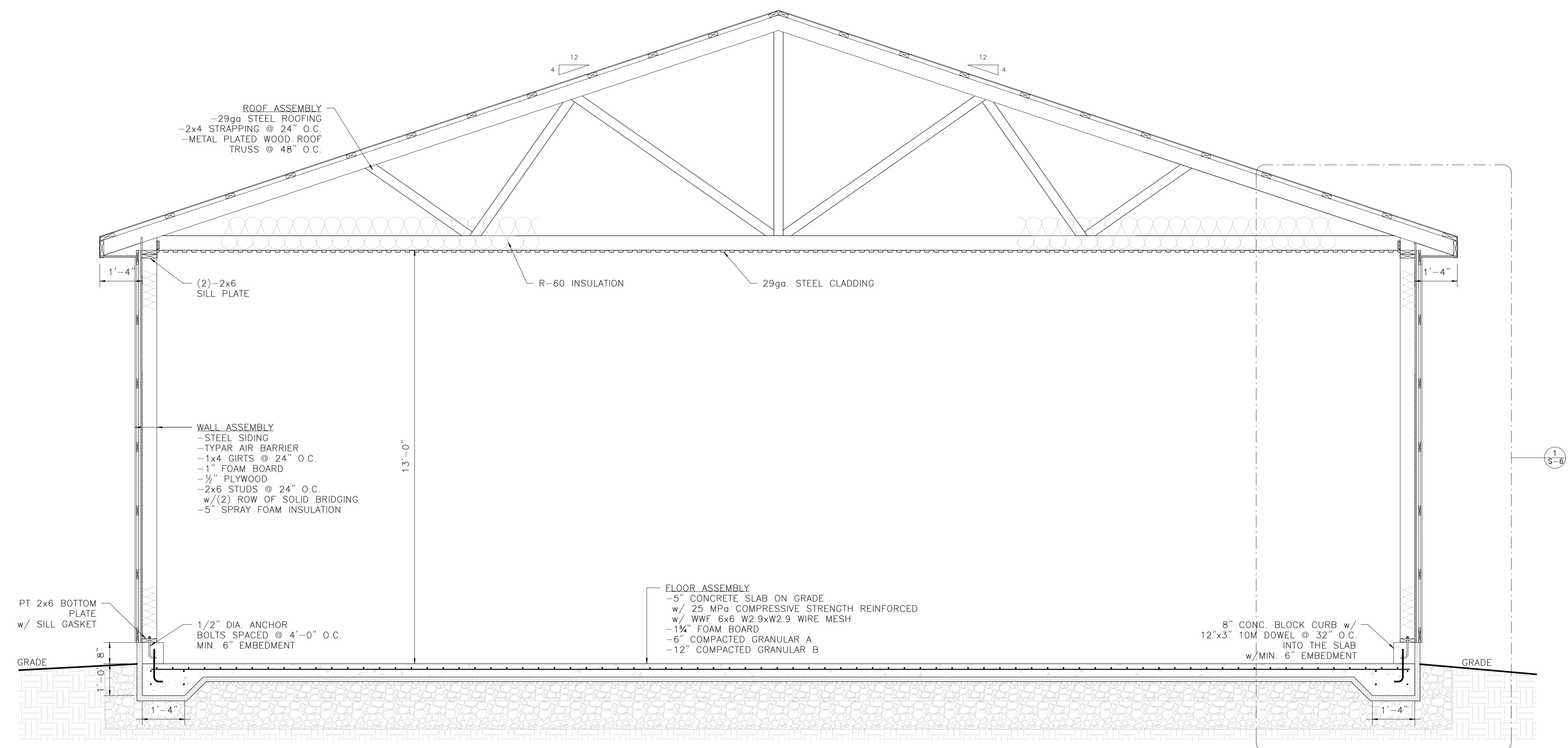
DRAWING
LAYOUT PLAN

PROJECT No 4028-21	DRAWN BY DH
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DWG. No.
S-4

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1 CROSS SECTION 1
 S-5 SCALE 1/2" = 1'-0"

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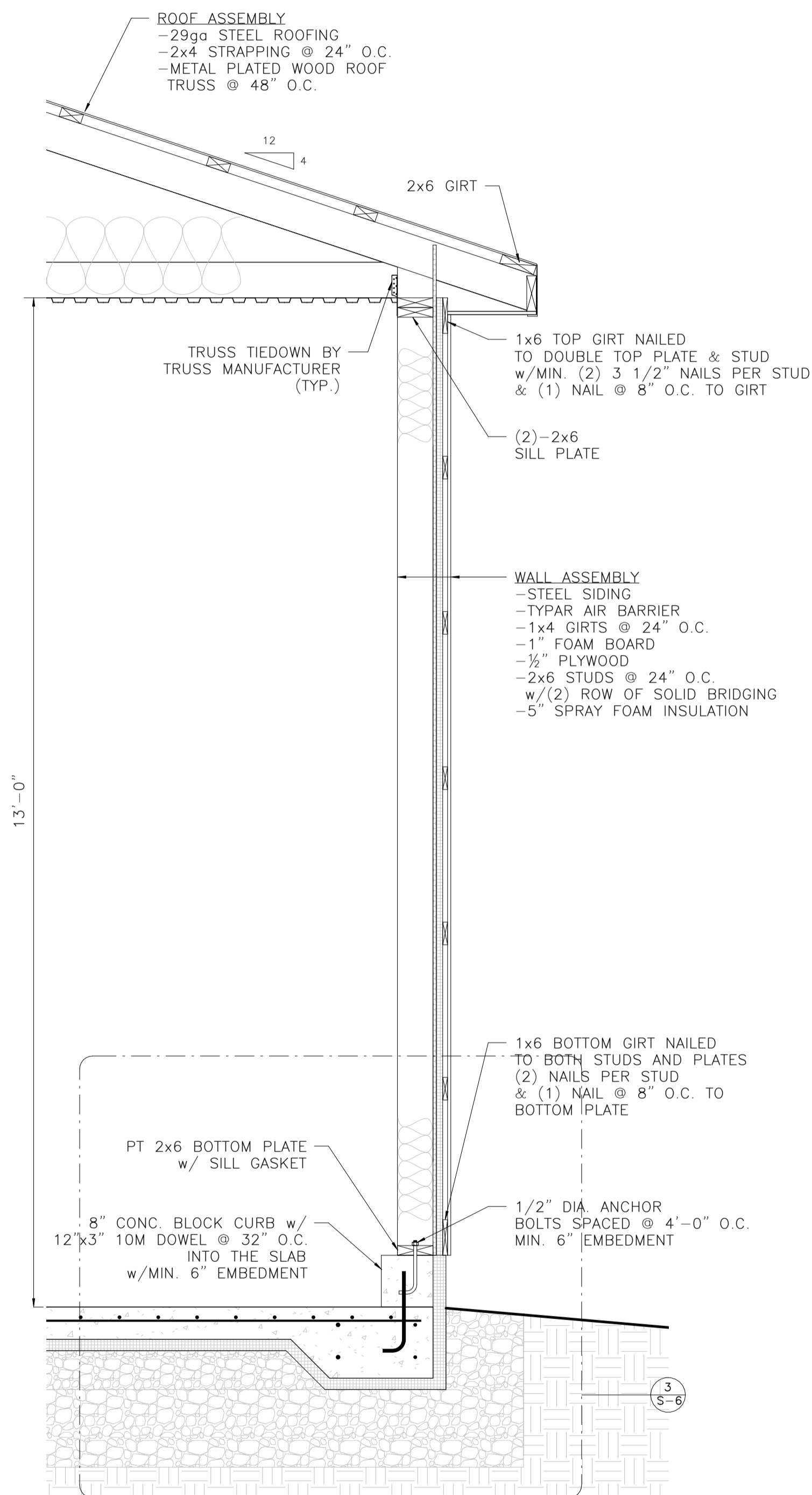
DRAWING
 CROSS SECTIONS

PROJECT No 4028-21
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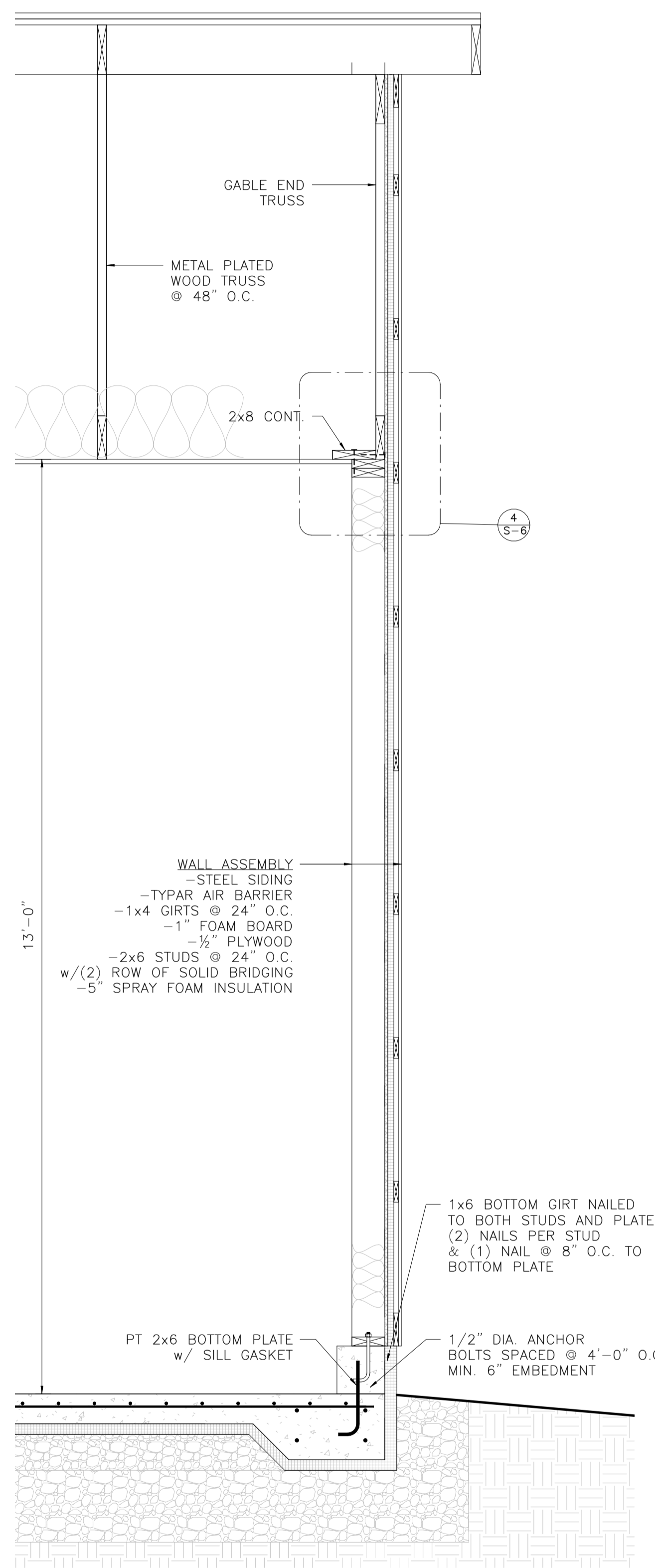
DATE SEPT. 2023
SCALE 1/2" = 1'-0"

DWG. No.
S-5

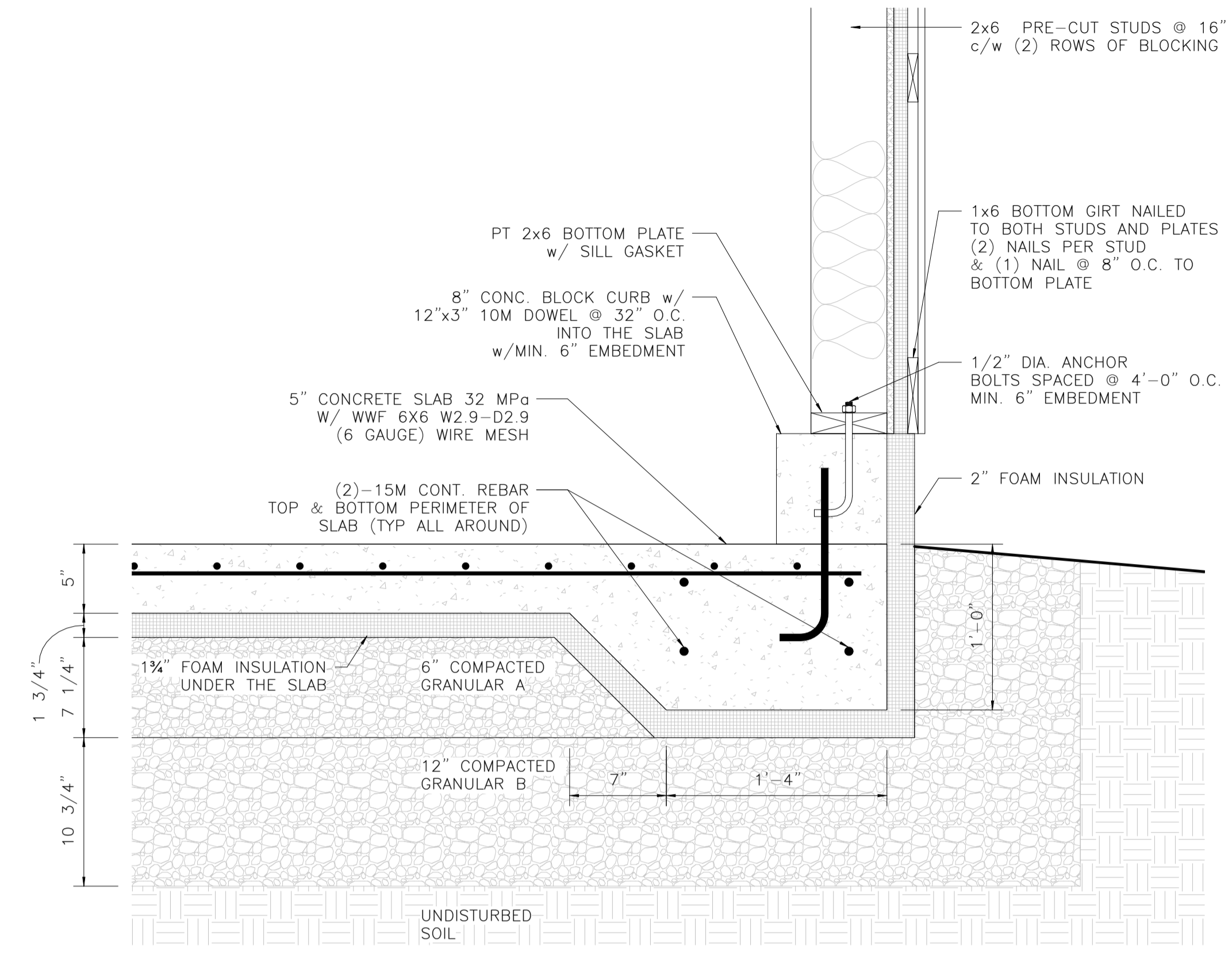
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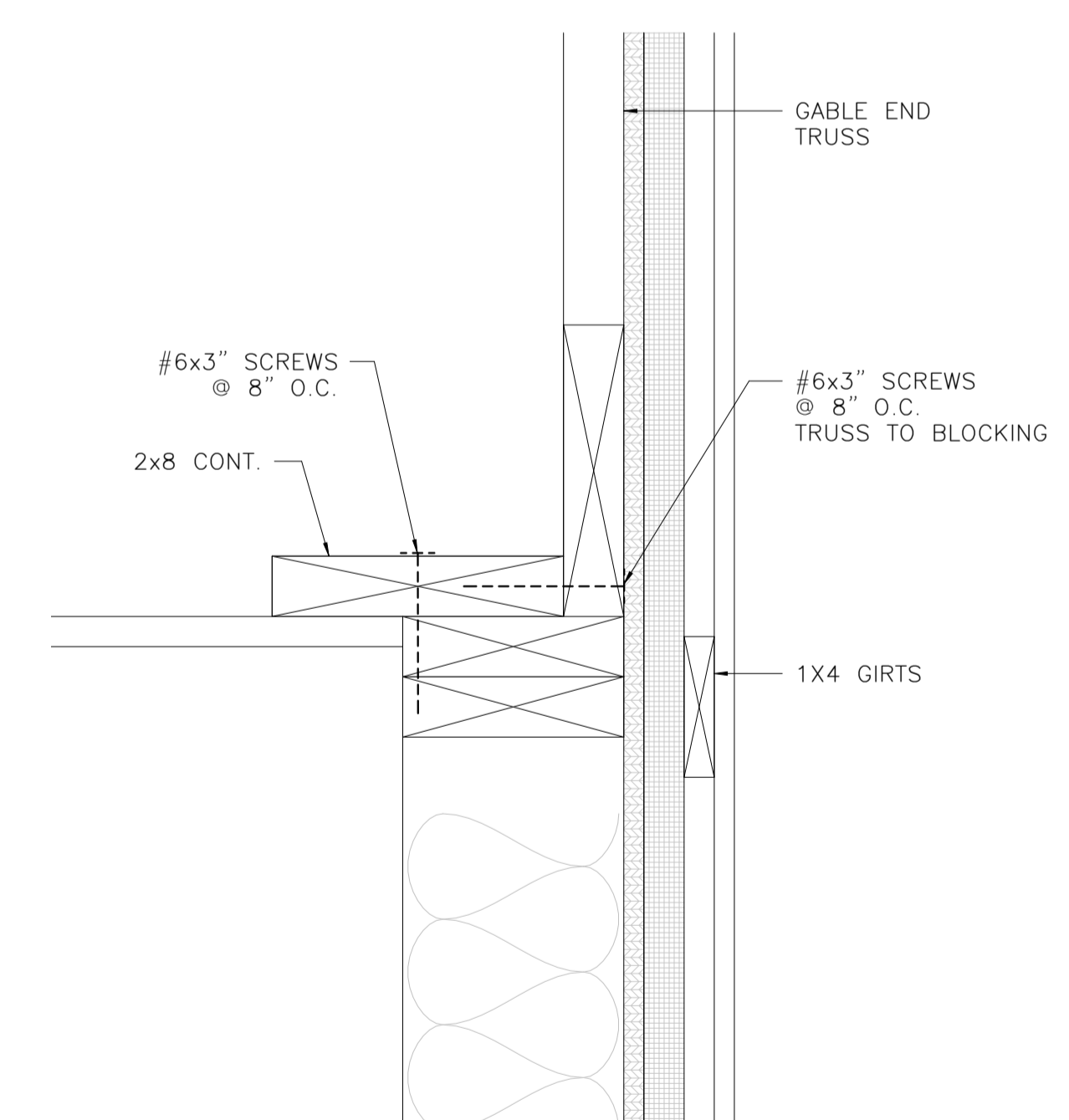
1 WALL SECTION 1
S-6 SCALE 3/4" = 1'-0"



2 WALL SECTION 2
S-6 SCALE 3/4" = 1'-0"



3 THICKENED EDGE CROSS SECTION
S-6 SCALE 1 1/2" = 1'-0"



4 CEILING-WALL TRUSS-WALL CONNECTION
S-6 SCALE 3" = 1'-0"

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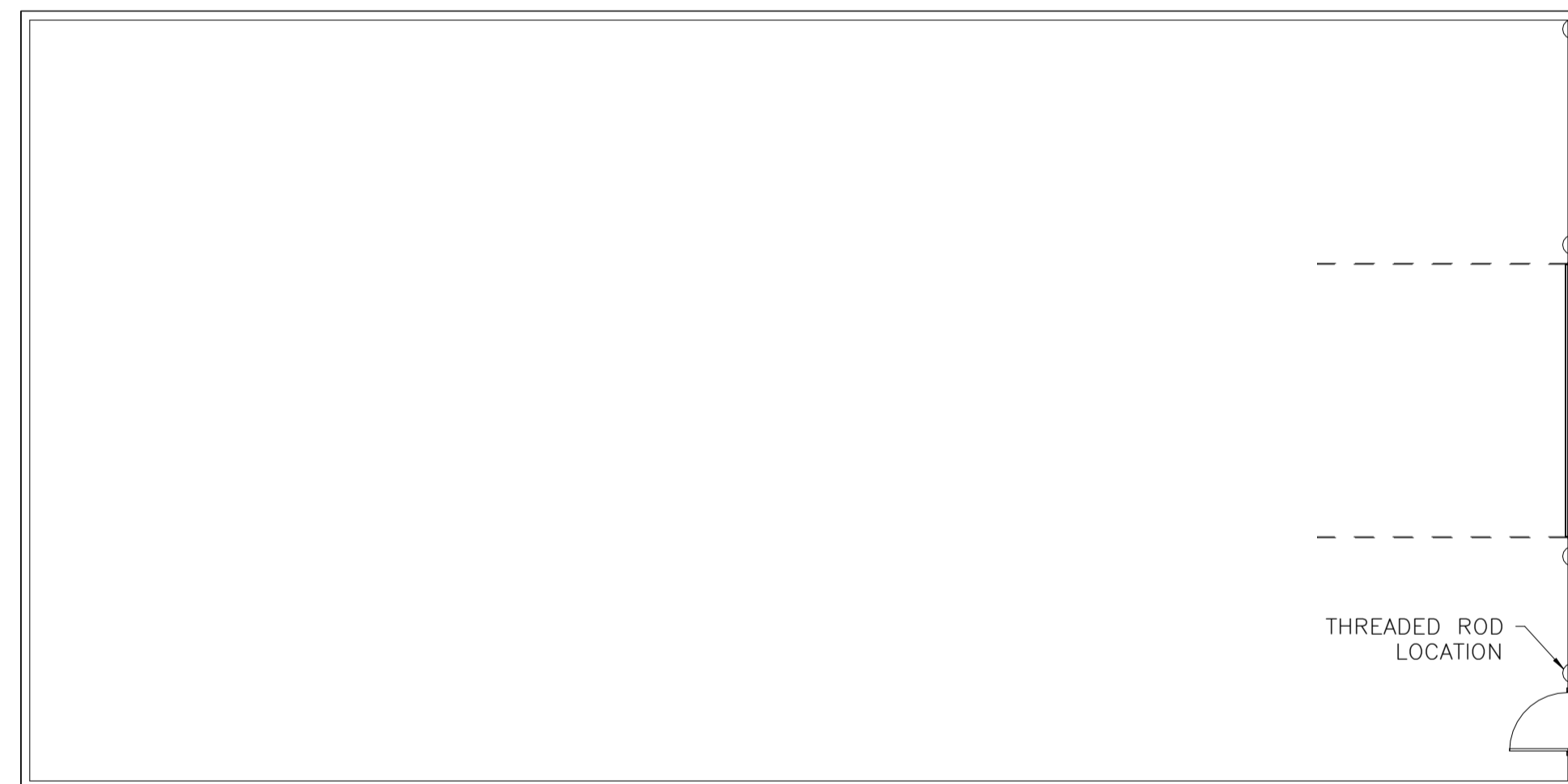
DRAWING
WALL SECTION DETAIL

PROJECT No 4028-21
DRAWN BY DH

DATE SEPT. 2023
SCALE AS INDICATED

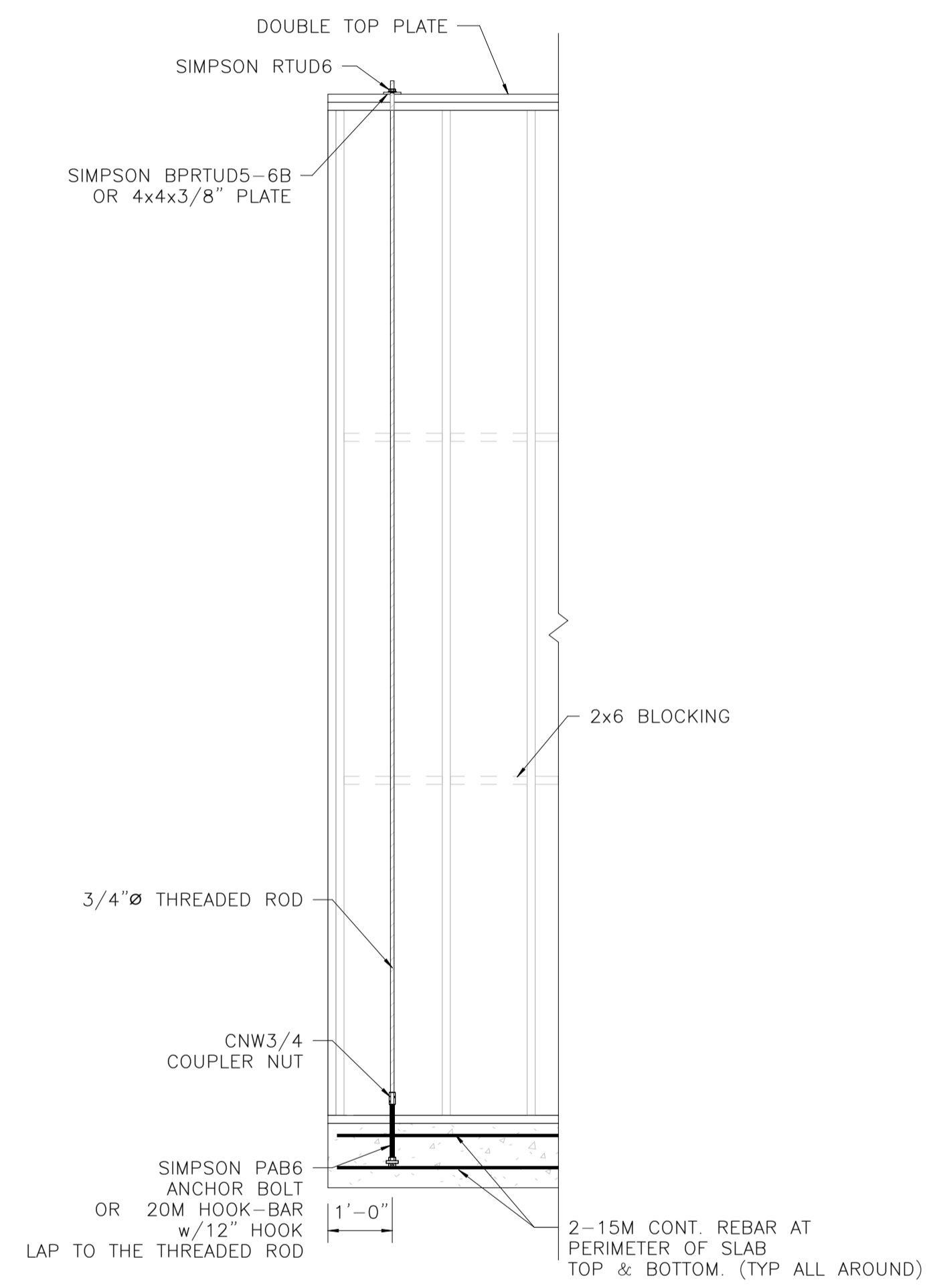
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1
S-7 SHEARWALL ANCHORAGE KEY PLAN
SCALE: NTS

INSTALL ANCHORS IN EACH END WALL
LOCATED 12" FROM EACH END AND
12" IN FROM EACH DOOR OPENING



2
S-7 SHEARWALL DETAIL-(SW-1)
SCALE: NTS

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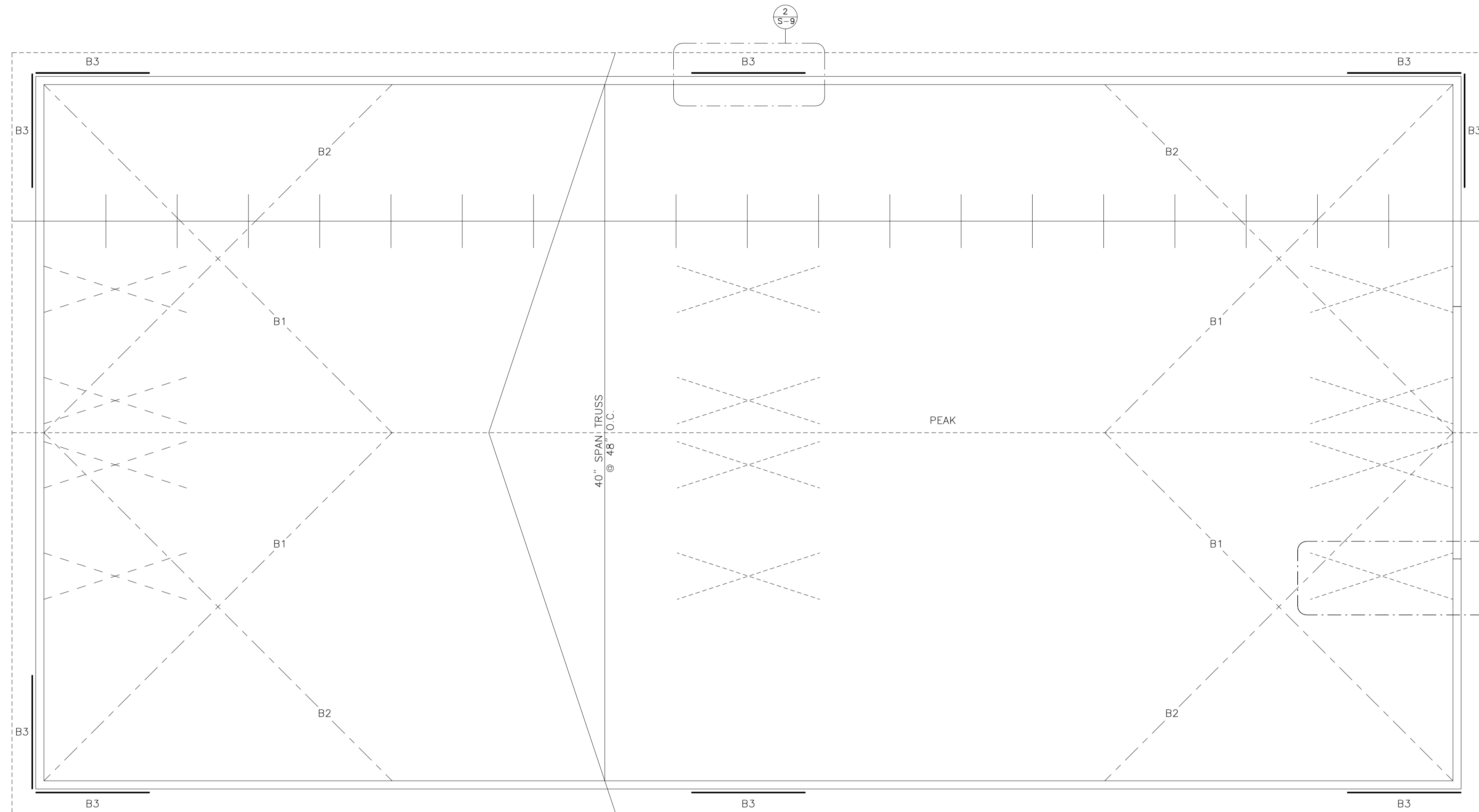
DRAWING
DETAILS

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DATE SEPT. 2023	SCALE AS INDICATED
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DWG. No.
S-7

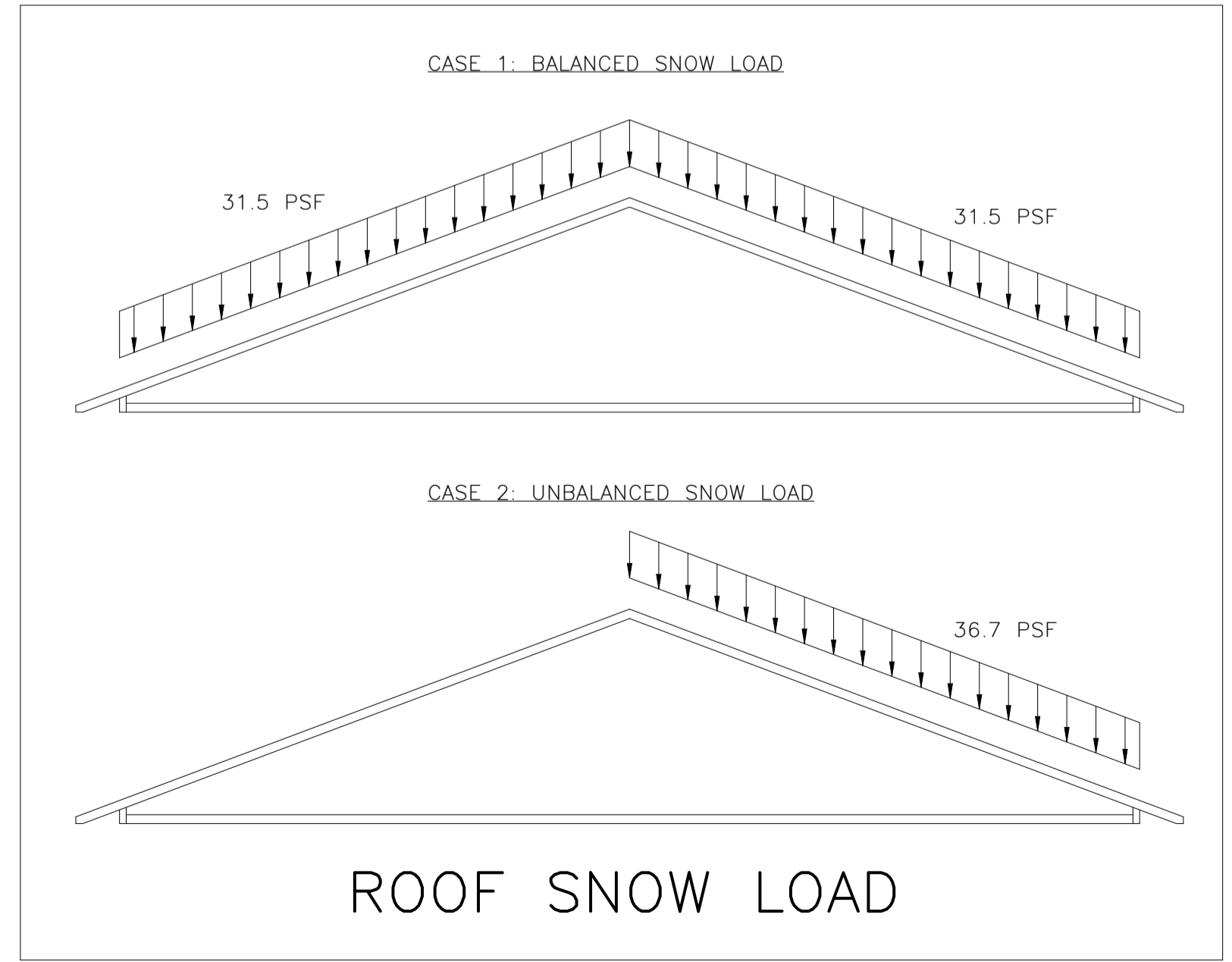
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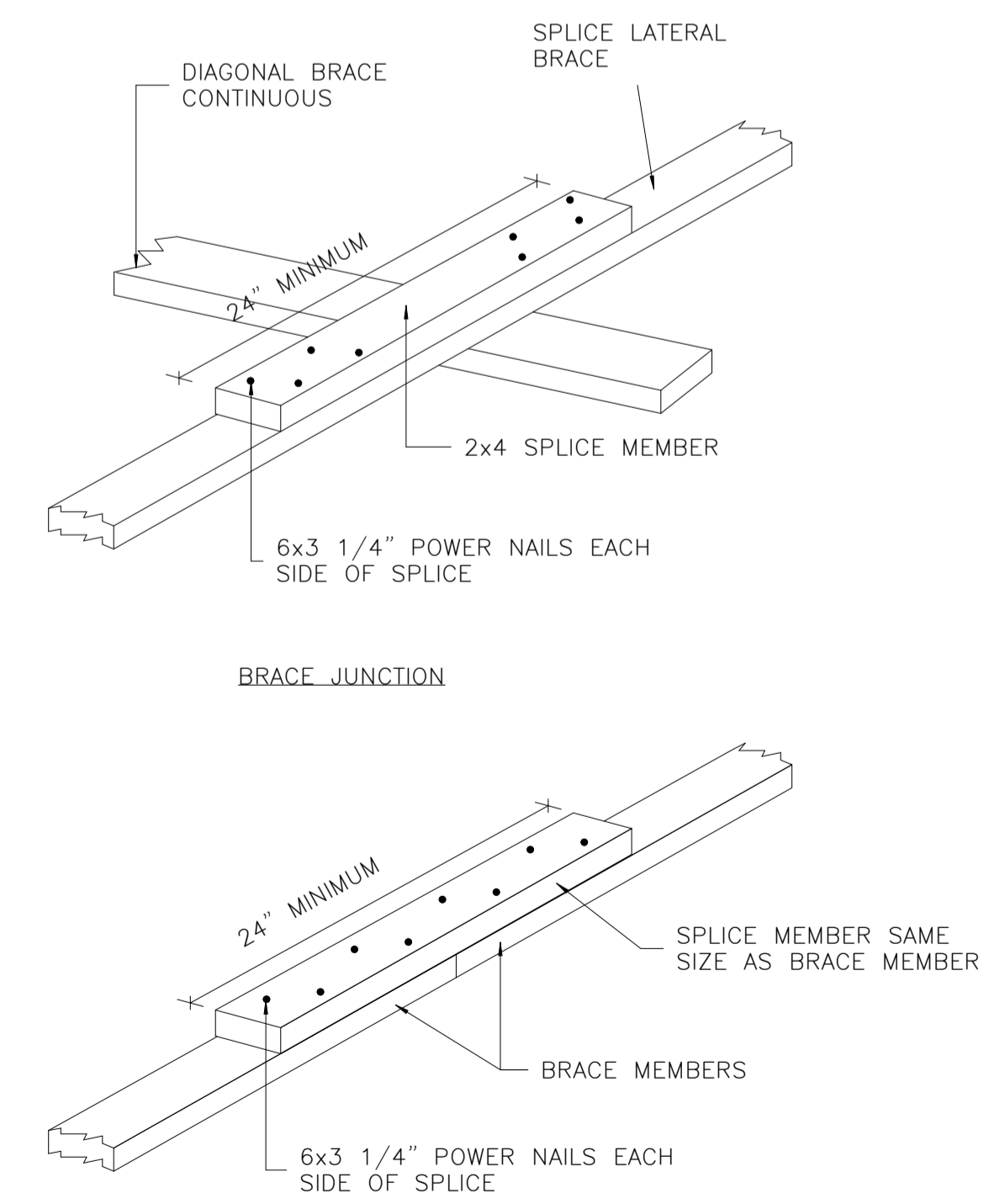
- B1 2x4 DIAGONAL BRACE ON UNDERSIDE OF TOP CHORD NAIL TO EACH TOP CHORD WITH (2)-3 1/2" NAILS
- B2 2x4 DIAGONAL BRACE ON TOP OF BOTTOM CHORD NAIL TO EACH BOTTOM CHORD WITH (2)-3 1/2" NAILS
- B3 1x6 DIAGONAL BRACE

NOTE:
 LOCATE TRUSSES DIRECTLY OVER STUDS.
 ALL OPENING TO BE LOCATED BETWEEN TRUSSES REQUIRING NO LINTEL.
 IF TRUSS IS LOCATED OVER ANY OPENING, USE (3)-2x6 LINTEL FOR UP TO 45" OPENING, OR (3)-2x8 LINTEL FOR UP TO A 66" OPENING WIDTH.

1 ROOF FRAMING PLAN
 S-8 SCALE 1/4" = 1'-0"



ROOF SNOW LOAD



3 BRACE SPLICE DETAILS
 S-8 SCALE: NTS

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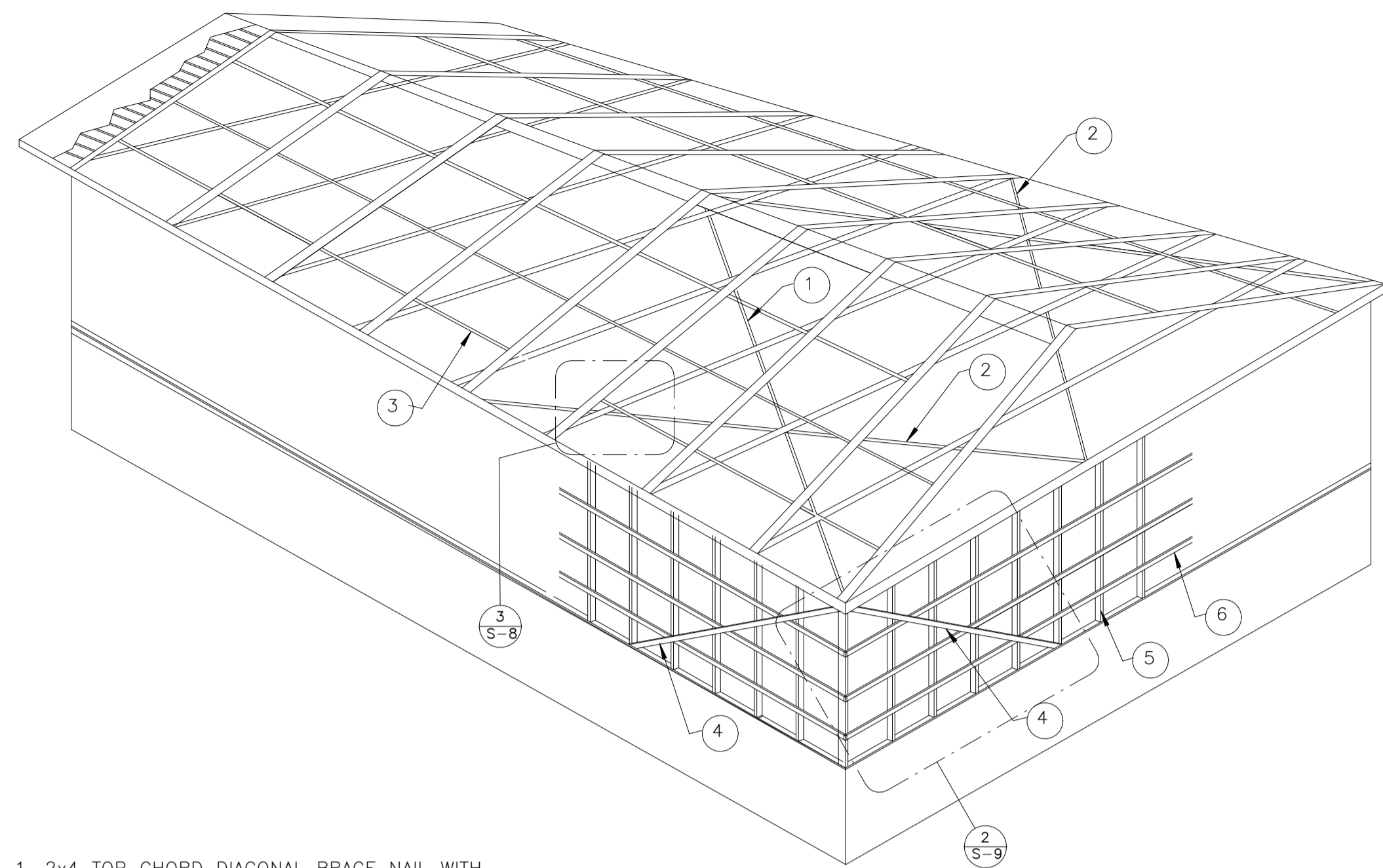
DRAWING
 ROOF FRAMING PLAN

PROJECT No 4028-21 DRAWN BY DH

DATE SEPT. 2023 SCALE AS INDICATED

DWG. No. **S-8**

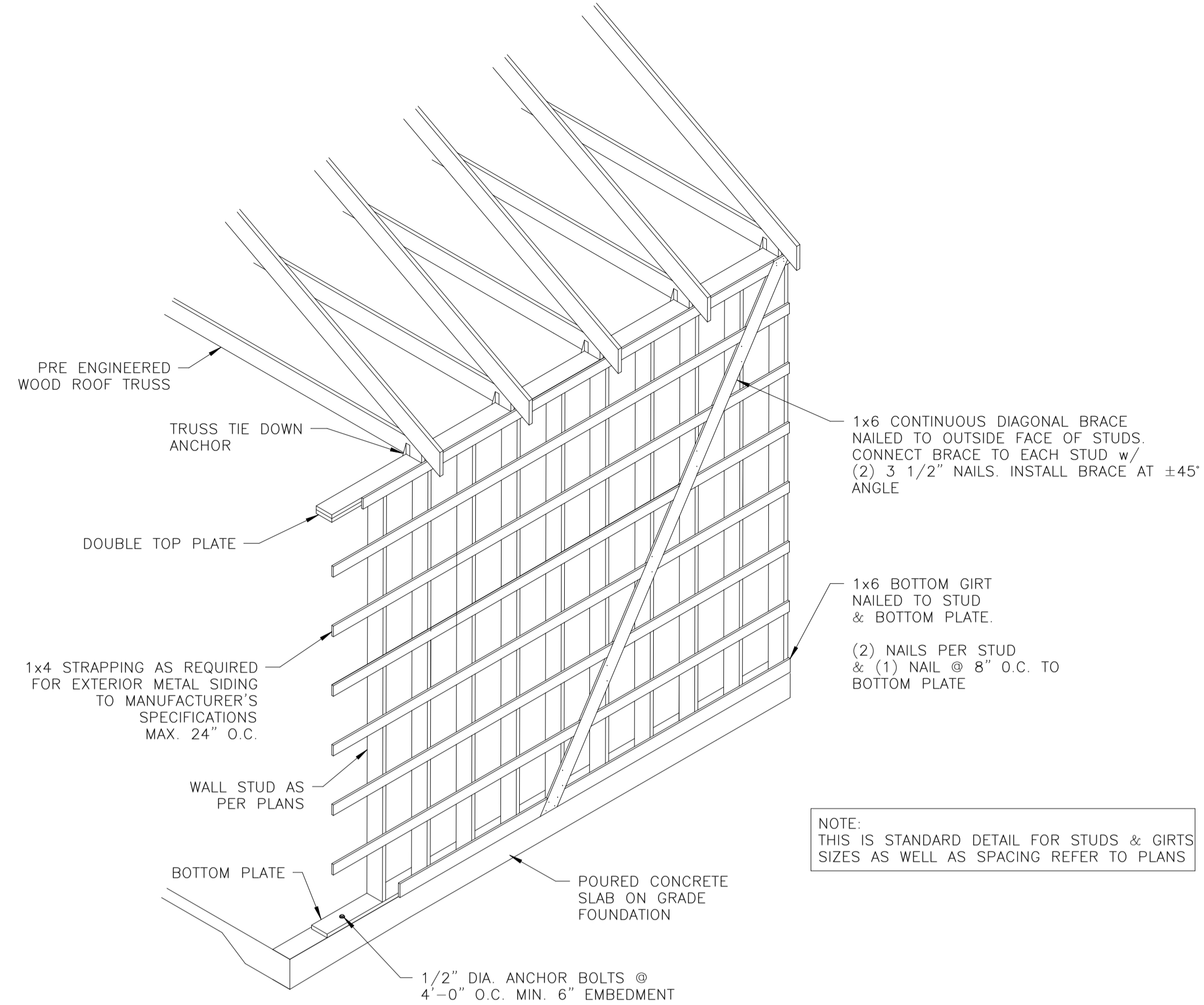
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- 2x4 TOP CHORD DIAGONAL BRACE NAIL WITH (3) 3 1/4" POWER NAILS TO EACH TRUSS TOP CHORD.
- 2x4 BOTTOM CHORD DIAGONAL BRACE, NAIL WITH (3) 3 1/4" POWER NAILS TO EACH TRUSS BOTTOM CHORD.
- 2x4 LATERAL BRACE SPACED AS PER TRUSS DRAWINGS TOP OF BOTTOM CHORD SPLICE @ 2'
- 2x6 WALL LATERAL BRACING
- WALL STUDS AS PLANS
- 1x4 STRAPPING @ 24" ON CENTER

NOTE:
THIS IS A GENERIC DETAIL TO ILLUSTRATE ROOF TRUSS BRACING, POST SPACING, & TRUSS SPACING. OTHER INFORMATION ON THE SKETCH MAY NOT BE IDENTICAL TO THE BUILDING CONSTRUCTED.

1 ROOF TRUSS BRACING TOP & BOTTOM CHORD
S-9 SCALE: NTS



NOTE:
THIS IS STANDARD DETAIL FOR STUDS & GIRTS SIZES AS WELL AS SPACING REFER TO PLANS

2 DIAGONAL WALL BRACING DETAIL-B3
S-9 SCALE: NTS

NOTE:
THESE STANDARD DETAILS WERE NOT DRAWN SPECIFICALLY FOR THIS PROJECT AND MAY SHOW SOME BACKGROUND DETAILS THAT ARE NOT EXACTLY AS PER THE CONSTRUCTION OF THIS BUILDING

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CLIENT
HUBBLE & SON AGCOM LTD.
404 DANIEL STREET,
PETERBOROUGH, ON K9K 1C5

PROJECT
609 CHASE Rd,
HILLIER, ON K0K 2J0

DRAWING
BRACING DETAILS

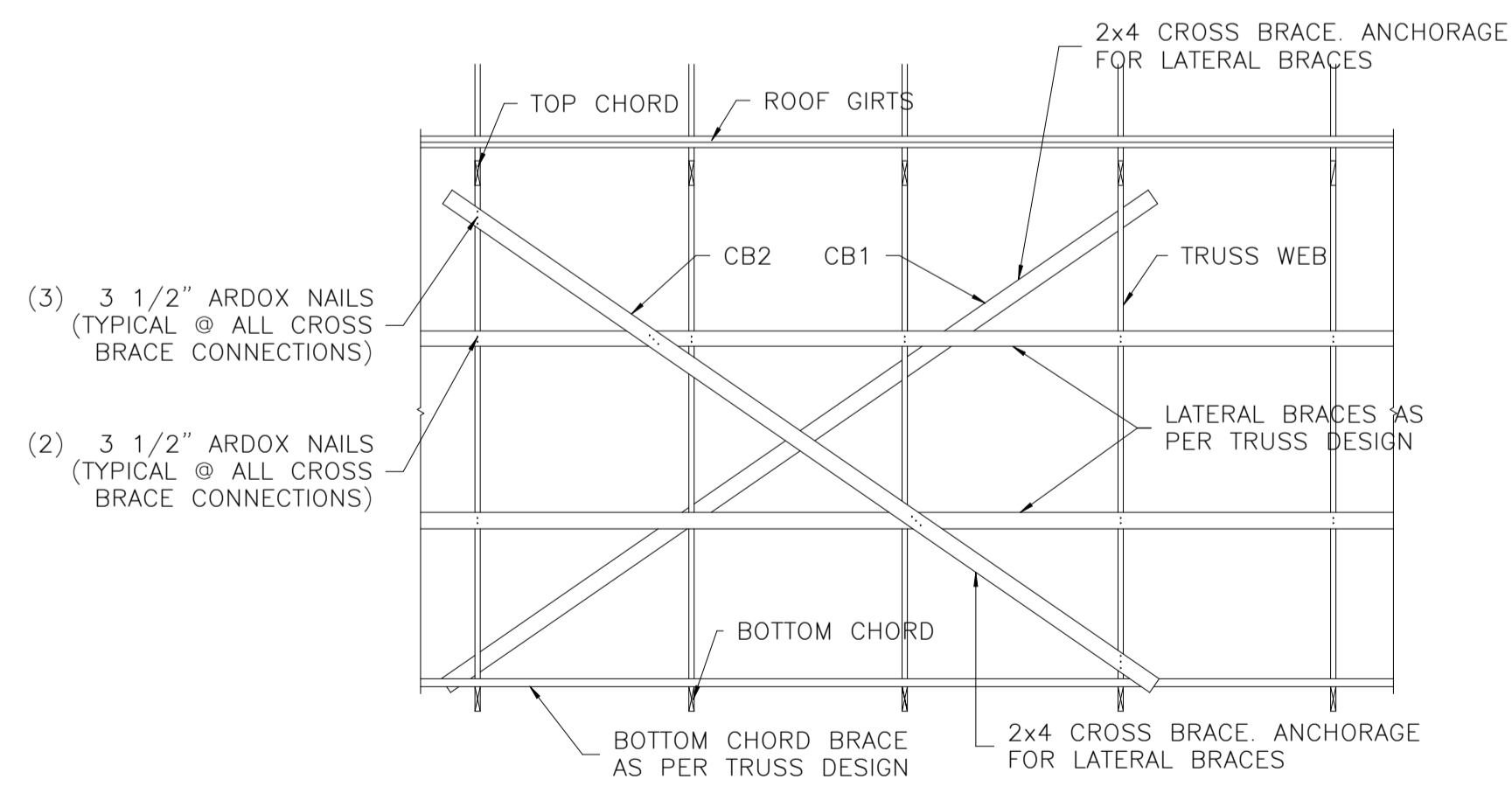
PROJECT No
4028-21

DRAWN BY
DH

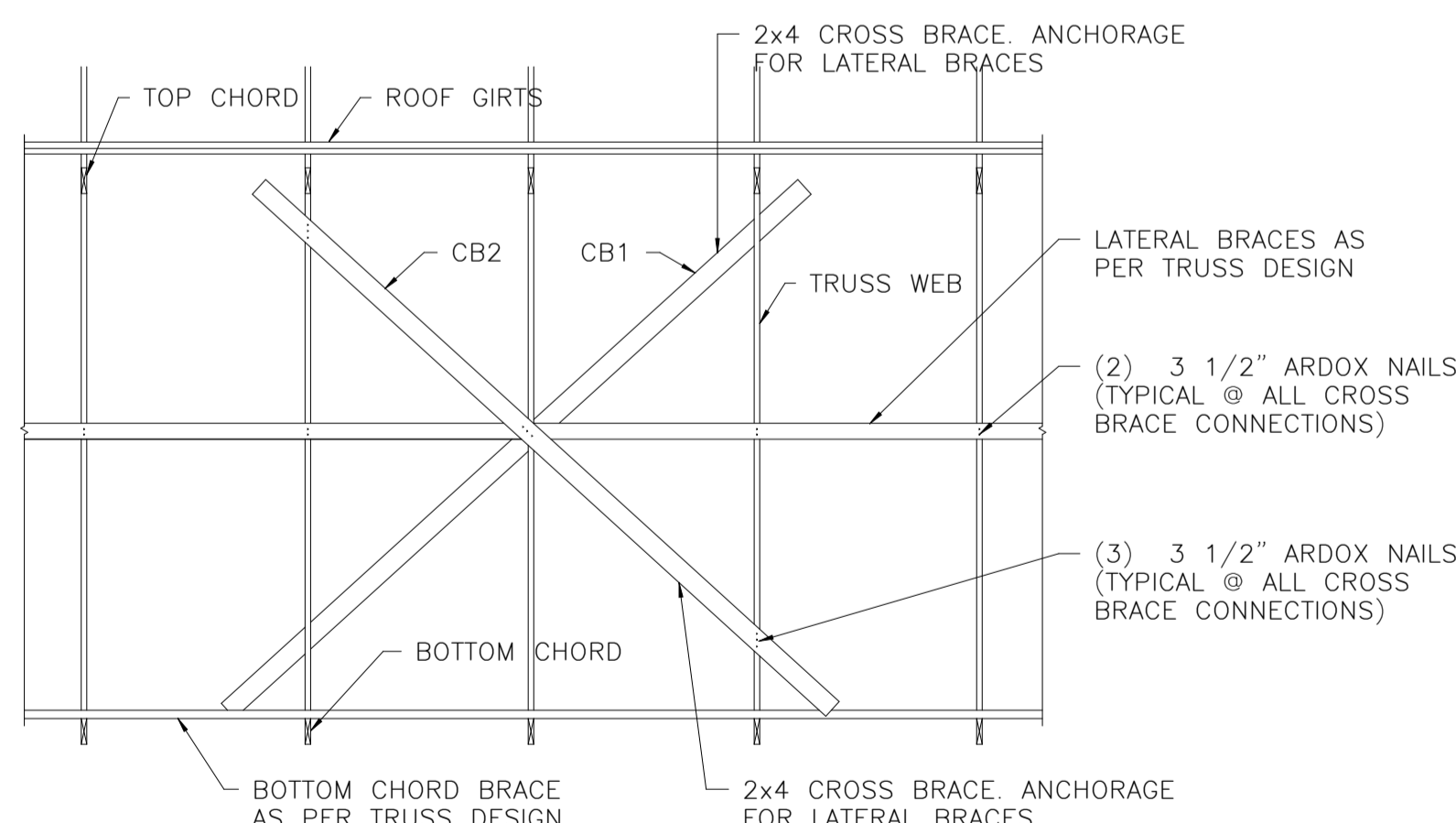
DATE
SEPT. 2023

SCALE
AS INDICATED

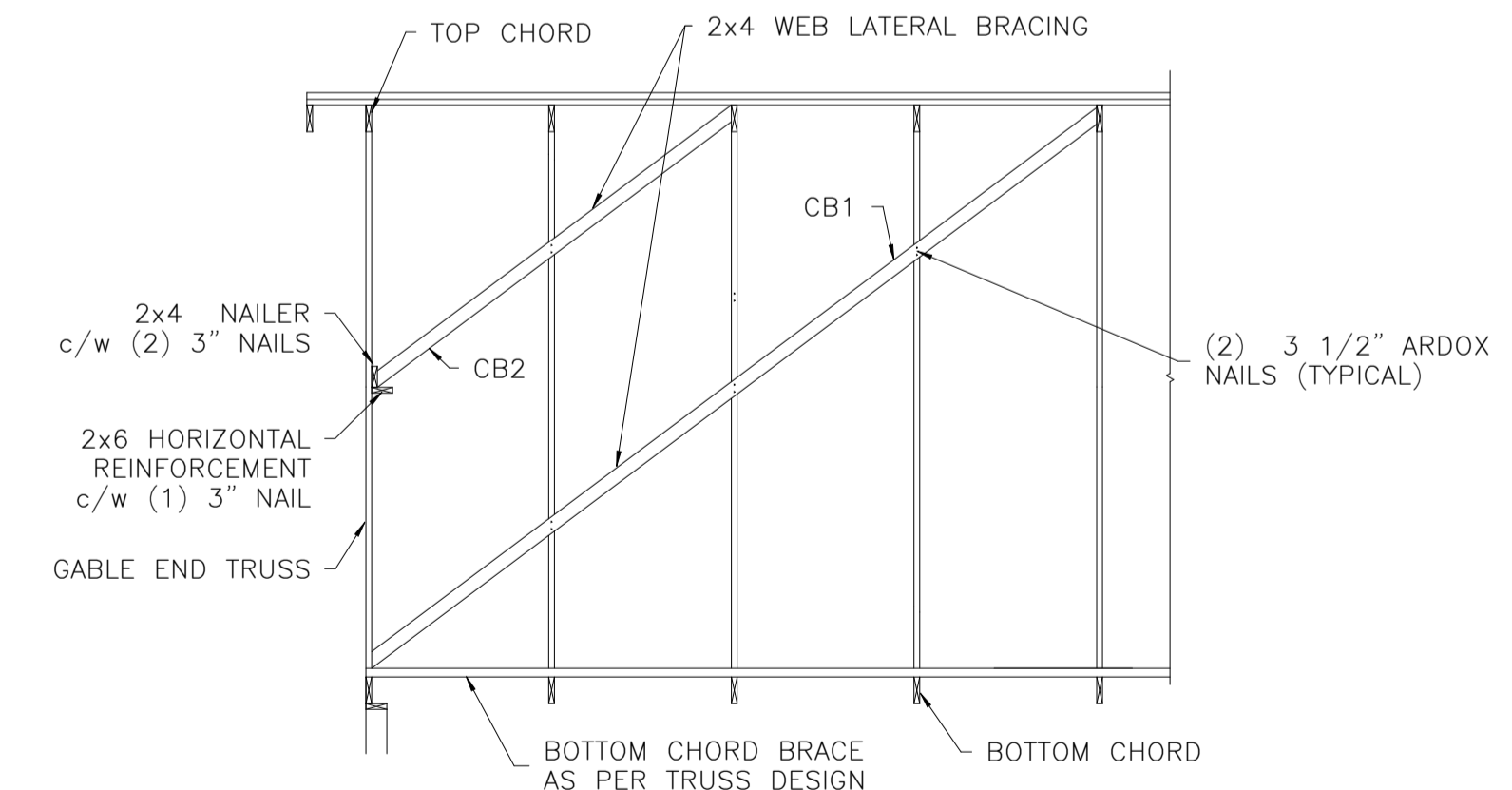
DWG. No.
S-9



- (3) 3 1/2" ARDOX NAILS (TYPICAL @ ALL CROSS BRACE CONNECTIONS)
- (2) 3 1/2" ARDOX NAILS (TYPICAL @ ALL CROSS BRACE CONNECTIONS)



- (2) 3 1/2" ARDOX NAILS (TYPICAL @ ALL CROSS BRACE CONNECTIONS)
- (3) 3 1/2" ARDOX NAILS (TYPICAL @ ALL CROSS BRACE CONNECTIONS)



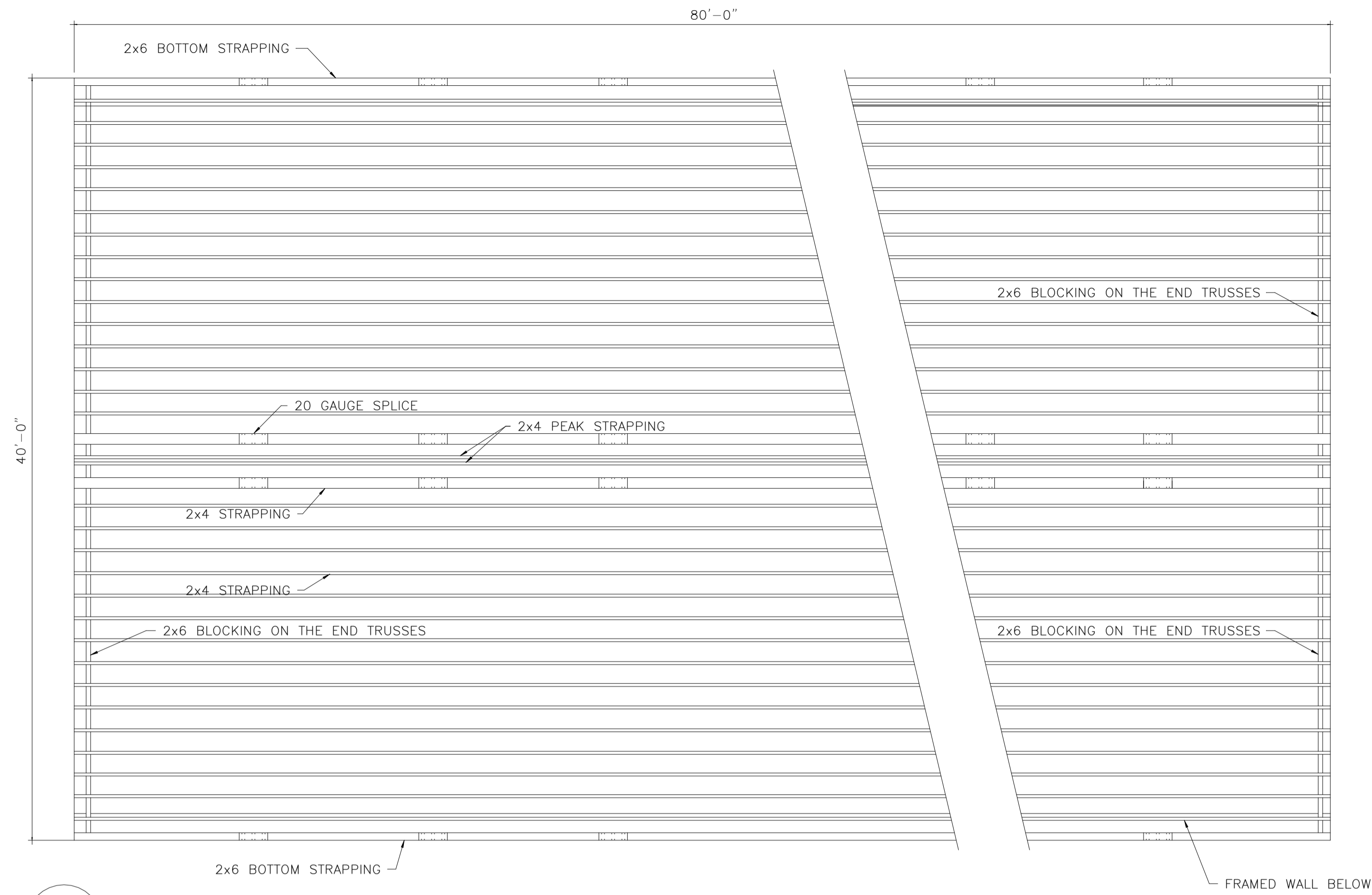
- (2) 3 1/2" ARDOX NAILS (TYPICAL)

- NOTES.
- GENERIC DETAILS WHICH MAY NOT REFLECT TRUSS CONFIGURATION EXACTLY.
 - CB1-BACKSIDE OF TRUSS WEB, LATERAL BRACE FRONT SIDE OF WEB.
 - CB2-FRONT SIDE OF LATERAL AND WEBS.
 - LATERAL BRACE ANCHORAGE REQUIRED ON ALL LATERAL WEB BRACES AT EACH END OF BUILDING AND AT MAXIMUM 80' SPACING IN ROOF SYSTEM.
 - IF 3 1/4" POWER NAILS ARE USED, DOUBLE THE NUMBER OF 3 1/2" ARDOX SPECIFIED

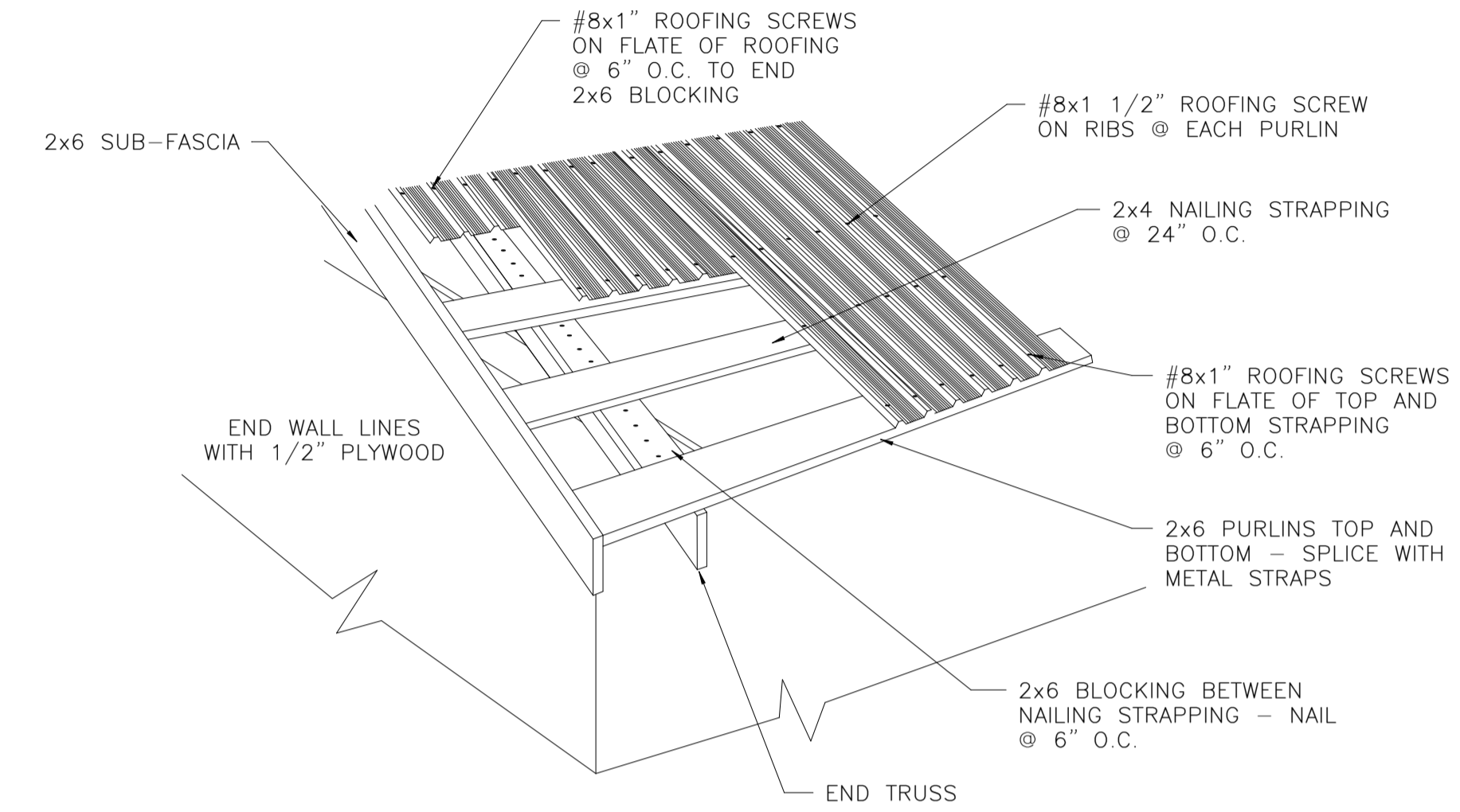
3a DOUBLE LATERAL BRACE ANCHORAGE
S-9 SCALE: NTS

3b SINGLE LATERAL BRACE ANCHORAGE
S-9 SCALE: NTS

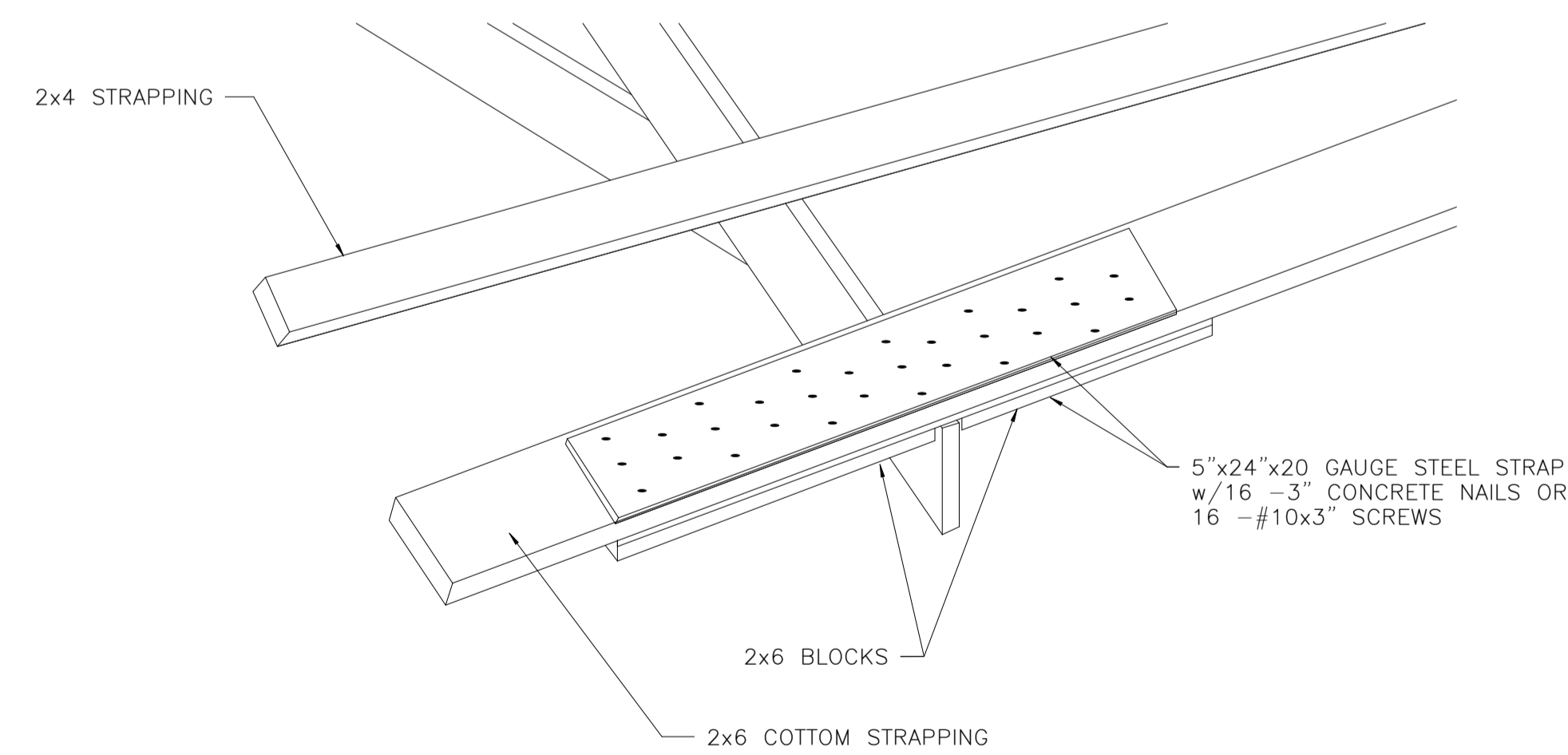
3c GABLE END BRACING
S-9 SCALE: NTS



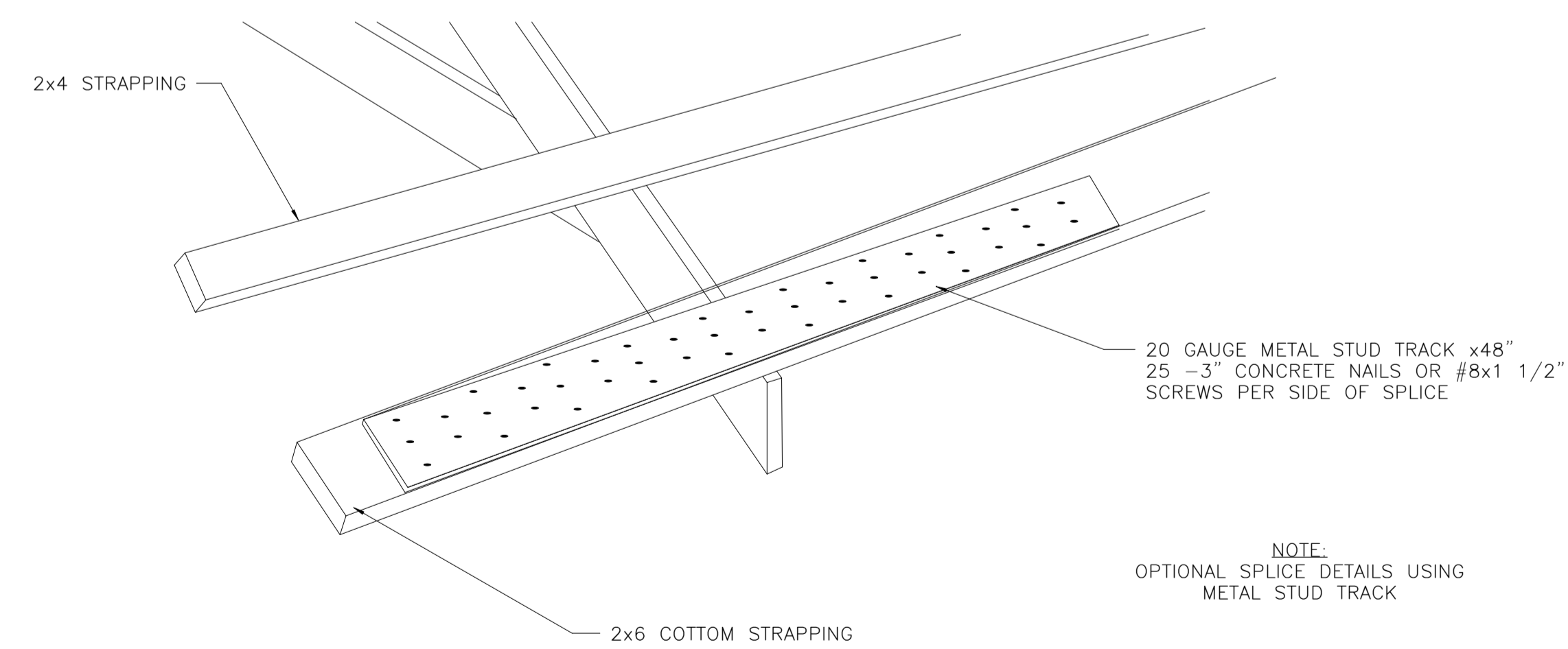
1 DIAPHRAGM FRAMING
S-10 SCALE: NTS



2 ROOF DIAPHRAGM CONNECTIONS
S-10 SCALE: NTS



3 TOP AND BOTTOM GIRT SPLICES
S-10 SCALE: NTS



4 TOP AND BOTTOM GIRTS SPLICES
S-10 SCALE: NTS

ISSUE			
No	Date	Description	Initial

1	2023-08-31	ISSUED FOR PERMIT	BF
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DRAWING
DIAPHRAGM FRAMING

PROJECT No 4028-21	DRAWN BY DH
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DATE SEPT. 2023	SCALE AS INDICATED
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DWG. No.
S-10