

SPECIAL INSTRUCTIONS AND TESTING:

THIS PROJECT REQUIRES SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH CHAPTER 17 OF THE MINNESOTA STATE BUILDING CODE 2020 EDITION. THESE NOTES AND THIS STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THE PROJECT OWNER ARE INTENDED TO INFORM THE CONTRACTOR OF THE QUALITY ASSURANCE PROGRAM AND THE EXTENT OF THE CONTRACTOR'S RESPONSIBILITIES. CONTRACTOR SHALL REFERENCE PROJECT MANUAL FOR ADDITIONAL INFORMATION. THE TESTING AND INSPECTION SERVICES SECTION WILL CLARIFY WHO SHALL EMPLOY AND PAY FOR SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM ALL INSPECTIONS, SPECIAL INSPECTIONS, AND TESTING FOR PROJECT.

GENERAL NOTES:

- THE SPECIAL INSPECTION AND TESTING PROGRAM IS A QUALITY ASSURANCE PROGRAM INTENDED TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY TO COMPLY WITH THE OFFICIAL CONTRACT DOCUMENTS. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DRAWINGS. THE SPECIAL INSPECTOR DOES NOT REPLACE THE DUTIES OF THE BUILDING OFFICIAL NOR THE QUALITY CONTROL RESPONSIBILITIES AND PERSONNEL OF THE CONTRACTOR. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE IBC SECTION 110 AND SPECIFIC STRUCTURAL OBSERVATION AS MAY BE REQUIRED BY THE CODE.
- THOUGH NOT REQUIRED BY CODE, SPECIAL INSPECTORS AND/OR INSPECTION AGENCIES CAN DOCUMENT ACCEPTANCE OF THEIR RESPONSIBILITIES AND SCOPE OF WORK FOR A PROJECT BY SIGNING AN AGREEMENT THAT INCLUDES A DETAILED SCHEDULE OF SERVICES, COMMONLY KNOWN AS THE SPECIAL INSPECTION AND TESTING AGREEMENT AND THE SPECIAL INSPECTION AND TESTING SCHEDULE. THIS DOCUMENT MAY REFERENCE THIS SHEET AS THE "STATEMENT OF SPECIAL INSPECTIONS," (SSI).
- THE STRUCTURAL DESIGN METHODS AND/OR ASSUMPTIONS UTILIZED ARE BASED UPON THE SPECIAL INSPECTIONS REQUIRED WITHIN THE CONTRACT DOCUMENTS.

CONTRACTOR RESPONSIBILITIES AND DUTIES:

- THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND PROVIDING ADEQUATE NOTICE TO THE SPECIAL INSPECTORS FOR ALL INSPECTIONS. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE REQUIRED ITEMS PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF WORK.
- THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO THE APPROVED CONTRACT DOCUMENTS, THESE DOCUMENTS INCLUDE SEALED DRAWINGS AND SPECIFICATIONS, ADDENDA, CHANGE ORDERS, APPROVED SHOP DRAWINGS, ISSUED SKETCHES AND REVISION DRAWINGS, AND ALL DIRECTIVES ISSUED BY THE ARCHITECT/ENGINEER. THIS CURRENT SET OF DOCUMENTS SHALL BE AVAILABLE AT THE JOB SITE.
- THE CONTRACTOR IS TO CORRECT DISCREPANCIES AND DEVIATIONS AS DETERMINED BY SPECIAL INSPECTOR. ALL DISCREPANCIES AND DEVIATIONS OBSERVED SHALL BE RE-INSPECTED UNTIL THE SPECIAL INSPECTOR DEEMS CONSTRUCTION TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS TO RETAIN SPECIAL INSPECTION RECORDS COMPLETED BY THE SPECIAL INSPECTORS AT THE JOB SITE.

SPECIAL INSPECTOR QUALIFICATIONS AND RESPONSIBILITIES:

- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- SPECIAL INSPECTORS SHALL NOTIFY CONTRACTOR PERSONNEL OF THEIR PRESENCE AND RESPONSIBILITIES AT THE JOBSITE.
- THE SPECIAL INSPECTOR/TESTING AGENCY SHALL BE INDEPENDENT OF THE CONTRACTOR TO AVOID CONFLICT OF INTEREST.
- THE SPECIAL INSPECTOR IS OBLIGATED TO BOTH THE OWNER AND THE BUILDING OFFICIAL FOR OBSERVING THAT THE WORK IS EXECUTED IN ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS. THESE DOCUMENTS INCLUDE SEALED DRAWINGS AND SPECIFICATIONS, ADDENDA, CHANGE ORDERS, APPROVED SHOP DRAWINGS, ISSUED SKETCHES AND REVISION DRAWINGS, AND ALL DIRECTIVES ISSUED BY THE ARCHITECT/ENGINEER.
- SPECIAL INSPECTORS SHALL KEEP ORGANIZED RECORDS OF INSPECTIONS AND SUBMIT INSPECTION REPORTS WITH A MINIMUM WEEKLY FREQUENCY TO THE CONTRACTOR, BUILDING OFFICIAL, ENGINEERS, AND ARCHITECTS INDIVIDUALLY. REPORTS SHOULD INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION TO THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THEY SHOULD BE REPORTED TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD.
- A FINAL SIGNED REPORT IS TO BE SUBMITTED AT THE END OF THE PROJECT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES. THIS REPORT SHOULD STATE THAT ALL ITEMS REQUIRING SPECIAL INSPECTION AND TESTING WERE FULFILLED AND REPORTED TO THE BEST OF THEIR KNOWLEDGE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS, AND THE APPLICABLE PROVISIONS OF THE IBC. ITEMS NOT IN CONFORMANCE, UNRESOLVED ITEMS, OR ANY DISCREPANCIES IN INSPECTION COVERAGE SHOULD BE SPECIFICALLY ITEMIZED.

STATEMENT OF SPECIAL INSPECTIONS (SSI):

THE FOLLOWING TABLES INDICATED THE MINIMUM SPECIFIC SPECIAL INSPECTION AND TESTING TO BE PERFORMED ON THIS PROJECT AND THE QUALIFICATIONS OF THE INDIVIDUAL INSPECTORS AND TESTING TECHNICIANS.

DEFINITIONS:

- CONTINUOUS SPECIAL INSPECTION:** THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. 100% OF THE WORK MUST BE INSPECTED AND IT MUST BE INSPECTED AS THE WORK IS BEING PERFORMED.
- PERIODIC SPECIAL INSPECTION:** THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN, OR IS BEING, PERFORMED AND AT THE COMPLETION OF WORK.
- YES:** THIS INSPECTION AND/OR TESTING IS REQUIRED BY THE BUILDING CODE AND MUST BE PERFORMED.
- NO:** THIS INSPECTION AND/OR TESTING IS NOT APPLICABLE TO THE PROJECT, AND NEED NOT BE PERFORMED.
- SUGGESTED:** THIS INSPECTION AND/OR TESTING IS NOT REQUIRED BY THE BUILDING CODE. HOWEVER, THE ENGINEER OF RECORD RECOMMENDS IMPLEMENTING THEM FOR QUALITY ASSURANCE. A POTENTIAL EXISTS FOR THESE MEASURES TO BE A VALUE ADDED SERVICE FOR THE OWNER TO ENSURE PROPER PROJECT COMPLETION.

SPECIAL INSPECTIONS - SOILS AND FOUNDATIONS (SHALLOW FOUNDATIONS)				
VERIFICATION AND INSPECTION	SCOPE	REFERENCED STANDARD	FREQUENCY OF INSPECTION	REQUIRED ON PROJECT
1. Shallow Foundations	Inspect Soils below footings for adequate bearing capacity and consistency with geotechnical report.	Geotechnical Report	Periodic testing to verify compliance with project specifications & geotechnical report.	YES
2. Excavations	Verify excavations are extended to proper depth and have reached proper material.	Geotechnical Report	Periodic testing to verify compliance with project specifications & geotechnical report.	YES
3. Compacted Fill Placement	During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thickness during placement and compaction of compacted fill.	Geotechnical Report	Continuous	YES
4. Compacted Fill Materials	Perform classifications and testing of compacted fill materials.	Geotechnical Report	Periodic testing to verify compliance with project specifications & geotechnical report.	YES
5. Site Preparation	Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	Geotechnical Report	Periodic testing to verify compliance with project specifications & geotechnical report.	YES
6. Rammed Aggregate Piers	Verification of aggregate properties, types and number of lifts, pier size and depths and applicator rammer energy. Observation of the installation, identification of cave-in contamination, modulus test, bottom and crown stabilization tests.	Geotechnical Report	Periodic	NO

SPECIAL INSPECTION - MASONRY LEVEL 1 INSPECTIONS				
VERIFICATION AND INSPECTION	SCOPE	REFERENCED STANDARD	FREQUENCY OF INSPECTION	REQUIRED ON PROJECT
1. Material Certification	All CMU, mortar mixes & grout mixes to be submitted to Structural Engineer for approval prior to construction.	ACI 530	Prior to Construction	YES
2. As masonry construction begins, these items to be verified to ensure compliance:				
2a. Proportions of site-prepared mortar	-	ACI 530	Periodic	YES
2b. Construction of mortar joints	-	ACI 530	Periodic	YES
2c. Location of reinforcement, connectors and anchorages	-	ACI 530	Periodic	YES
3. The inspection program shall verify:				
3a. Size and location of structural elements	-	ACI 530	Periodic	YES
3b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction	-	ACI 530	Periodic	YES
3c. Specified size, grade and type of reinforcement	-	ACI 530	Periodic	YES
3d. Welding of reinforcement bars	-	ACI 530	Continuous	YES
3e. Protection of masonry during cold weather and hot weather conditions	-	ACI 530	Periodic	YES
4. Prior to grouting, the following shall be verified to ensure compliance:				
4a. Grout space is clean	-	ACI 530	Periodic	YES
4b. Placement of reinforcement, connectors and anchorages	-	ACI 530	Periodic	YES
4c. Proportions of site-prepared grout	-	ACI 530	Periodic	YES
4d. Construction of mortar joints	-	ACI 530	Periodic	YES
5. Grout placement shall be verified to ensure compliance with code and construction documents	-	ACI 530	Continuous	YES
6. Preparation of any required grout specimens and/or prisms shall be observed	-	ACI 530	Continuous	YES
7. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified	-	-	Periodic	YES
8. Evaluation of Masonry Strength	Test compressive strength of mortar and grout cube samples. Test compressive strength of masonry prisms.	ACI 530 and applicable ASTM Standards	Periodic	YES

SPECIAL INSPECTION - CAST-IN-PLACE CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	SCOPE	REFERENCED STANDARD	FREQUENCY OF INSPECTION	REQUIRED ON PROJECT
1. Mix Design	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added on site does not exceed that allowed by the mix design.	ACI 318	Prior to start of concrete construction on project.	YES
2. Material Certification	Verify that concrete supplier's concrete components meet requirements set forth by applicable ASTM standards.	Applicable ASTM & ACI Specs	Prior to start of concrete construction on project	YES
3. Reinforcement Installation Placement, Including Prestressing Tendons	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters.	Applicable ACI Specs	Prior to each casting	YES
4. Welding of Reinforcing	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.	Applicable ASTM & ACI Specs	Continuous	YES
5. Anchor Rods	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.	Applicable ASTM & ACI Specs	Prior to each casting	YES
6. Concrete Placement	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	Applicable ACI Specs	Continuous	YES
7. Sampling and Testing of Concrete	Prior to concrete placement test concrete for strength tests, slump, air content and temperature.	Applicable ACI and ASTM Specs	Not less than once a day, nor less than once for every 150 cubic yard, nor less than once for every 5000 SF of surface area for slabs or walls	YES
8. Curing and Protection	Verify maintenance of specified curing temperature and techniques, include cold weather protection and hot weather protection procedures.	Applicable ACI Specs	Monitor on site after each casting Periodic	YES
9. Post-Installed Anchors in Hardened Concrete	Inspect installation for type of anchor, embedment, edge distance & adhesive required.	ACI & Supplier's Specs	Continuous	YES
10. Post Tension	Verify in-situ concrete strength, prior to stressing of tendons in post tension concrete and prior to removal of shoring and forms from beams and structural slabs.	ACI	Periodic	NO
11. Formwork	Inspect formwork for shape, location and dimensions of concrete member being formed.	ACI	Periodic	YES

Exceptions per IBC 1704.4, Special Inspections are not required for the following unless otherwise required by the Building Official or Structural Engineer of the Record.

- Nonstructural concrete slabs supported directly on the ground.
- Concrete patios, driveways and sidewalks, on grade.

SPECIAL INSPECTION - STRUCTURAL STEEL				
VERIFICATION OR INSPECTION	AGENCY QUALIFICATION	REFERENCED STANDARD	FREQUENCY OF INSPECTION	REQUIRED ON PROJECT
1. Fabricator Certification ¹	AISC QUALITY CERTIFICATION PROGRAM	-	N/A	YES
2. Erector Certification ²	AISC QUALITY CERTIFICATION PROGRAM	-	N/A	YES
3. Material Certification	-	Applicable ASTM S	Prior to Fabrication	YES
4. Welding	-	AISC 360 Chapter N	See Tables N5.4-1, N5.4-2 & N5.4-3	YES
5. Bolting	-	AISC 360 Chapter N	See Tables N5.6-1, N5.6-2 & N5.6-3	YES
6. Shear Connectors	-	AISC 360 Chapter N	See Table N5.4-2	NO
7. Open Web Joists and Joist Girders	-	SJI	Periodic	NO
8. Welding/Mech Fastening - Cold Formed Floor and Roof Decks	-	SDI	Periodic	NO
9. Structural Details	-	-	Periodic	YES

- IN LIEU OF AISC QUALITY CERTIFICATION PROGRAM, FABRICATOR CAN PROVIDE QUALITY CONTROL PROCEDURE DOCUMENTATION ACCORDING TO N2.2
- IN LIEU OF AISC ERECTOR CERTIFICATION PROGRAM, FABRICATOR CAN PROVIDE QUALITY CONTROL PROCEDURE DOCUMENTATION ACCORDING TO N2.3

SPECIAL INSPECTION - WOOD CONSTRUCTION				
VERIFICATION AND INSPECTION	SCOPE	REFERENCED STANDARD	FREQUENCY OF INSPECTION	REQUIRED ON PROJECT
1. Fabricator Certification ¹ Quality Control Procedures	Fabricator to be enrolled in a nationally accepted inspection program acceptable to the Structural drawings and specifications. The approved fabricator to submit a certification of compliance to a the building official.	-	N/A	YES
2. Material Grading	Review sheathing, framing members, wall studs, plates for proper species and grade	Applicable APA & AITC Specs	Prior to Construction & Periodic during construction	YES
3. Connections	Inspect connection of framing members. Including nail and bolts for size and spacing. Verify metal hardware connectors for type and proper installation	ANSI/AF&PA & Supplier's Specs	Periodic	YES
4. Framing and Details	Inspect framing for plumbness, spacing, bearing length, and size. Verify bracing is installed as required.	ANSI/AF&PA	Periodic	YES
5. Diaphragms and Shearwalls	Inspect size, configuration, blocking and fastening of shearwalls and diaphragms. Verify panel grade and thickness. Verify size and installation of hold-downs and straps.	ANSI/AF&PA & Supplier's Specs	Periodic	YES
6. Prefabricated Metal-Plate Connected Wood Trusses & I-Joists	See Item #1. Inspect installation for location, spacing, bearing length, connectors, and permanent bracing.	ANSI/AF&PA & Supplier's Specs	Periodic	YES
7. Long Span Metal-Plate Connected Trusses	Truss clear span of 60 ft or greater, inspection to verify temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the approved truss submittal package.	TPI	Continuous	NO



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Proj. Engineer: TJO
Drawn by: AH
Date Issued: 11/08/2024

Revisions	DATE	COMMENTS
#		

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Michael Teitel
Date: 11/08/2024 License #: 58944

SPACE FOR ENGINEER'S SEAL

HUGO APARTMENTS

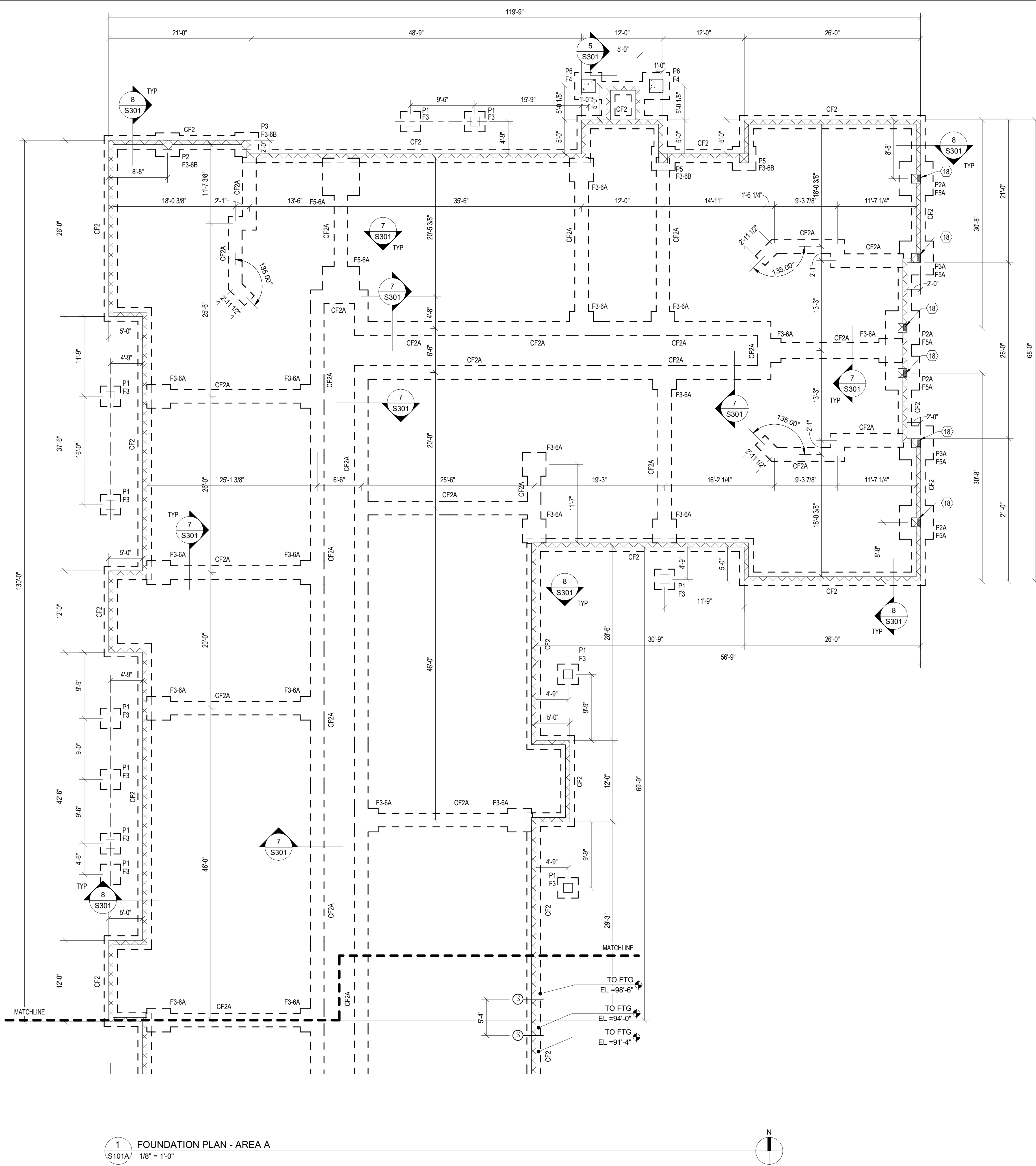
HUGO, MN

SHEET CONTENTS:
SPECIAL INSPECTIONS

SHEET NO.

S003

22124-16



- FOUNDATION PLAN NOTES:**
- TYPICAL INTERIOR SLAB ON GRADE, UNO THICKNESS = 4" REINFORCEMENT = MICROSYNTHETIC FIBER, SEE CONC REINF NOTES ON S301 BASE = MIN OF 5" COMPACTED GRANULAR FILL, UNO BY GEOTECHNICAL REPORT VAPOR RETARDER/BARRIER - SEE ARCH TOP OF SLAB ELEVATION = 100'-0" SEE ARCH FOR SLOPES AND RECESSES
 - TOP OF EXTERIOR FOOTING ELEVATION, UNO = 96'-8"
 - PERIMETER FOUNDATION WALLS TO BE 8" CMU WALLS GROUTED SOLID. SEE DETAILS FOR REINFORCEMENT.
 - GC ALTERNATE (FOR PRICING PURPOSES): 8" CAST-IN-PLACE CONCRETE FOUNDATION WALLS MAY BE USED IN LIEU OF 8" CMU WALLS. REINFORCEMENT TO BE #4 VERTICALS AT 4'-0" ON CENTER WITH #4 HORIZONTALS AT 1'-0" ON CENTER. IF ALTERNATE IS SELECTED, CONTACT EOR TO HAVE STRUCTURAL DRAWINGS UPDATED.

KEYNOTES

LABEL	NOTE
18	EMBED PLATE AT TOP OF CMU PIER INSTALLED BY MASON - SEE PIER DETAIL.

PIER SCHEDULE

MARK	DETAIL	NOTES/COMMENTS
P1		-
P2	2/S302	-
P2A	13/S302	-
P3	8/S302	-
P3A	14/S302	-
P4	6/S302	-
P5	10/S302	-
P6	10/S302	-

CONT FOOTING SCHEDULE

MARK	SIZE	THICKNESS	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT	NOTES/COMMENTS
CF2	2'-0" CONT	1'-0"	(2) #5 CONT	#4 @ 4'-0" OC	-
CF2A	2'-0" CONT	1'-0"	(2) #5 CONT	#4 @ 4'-0" OC	THICKENED SLAB
CF2-6A	2'-6" CONT	1'-0"	(3) #5 CONT	#4 @ 4'-0" OC	THICKENED SLAB
CF3	3'-0" CONT	1'-0"	(3) #5 CONT	#4 @ 4'-0" OC	-

PAD FOOTING SCHEDULE

MARK	SIZE	THICKNESS	BOTTOM REINFORCEMENT EACH WAY	TOP REINFORCEMENT EACH WAY	NOTES/COMMENTS
F3	3'-0" SQ	1'-0"	(3) #5	-	-
F3-6A	3'-6" SQ	2'-0"	(4) #5	(4) #5	THICKENED SLAB
F3-6B	3'-6" SQ	2'-0"	(4) #5	(4) #5	-
F4	4'-0" SQ	1'-0"	(4) #5	-	-
F4A	4'-0" SQ	1'-0"	(4) #5	-	THICKENED SLAB
F5A	5'-0" SQ	2'-0"	(5) #5	(5) #5	-
F5-6A	5'-6" SQ	2'-0"	(6) #5	(6) #5	THICKENED SLAB
F6A	6'-0" SQ	2'-0"	(6) #5	(6) #5	THICKENED SLAB
F6B	6'-0" SQ	2'-0"	(6) #5	(6) #5	-
F6-6	6'-6" SQ	1'-2"	(7) #5	(7) #4	-

1 FOUNDATION PLAN - AREA A
S101A 1/8" = 1'-0"

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SPACE FOR ENGINEER'S SEAL

HUGO APARTMENTS

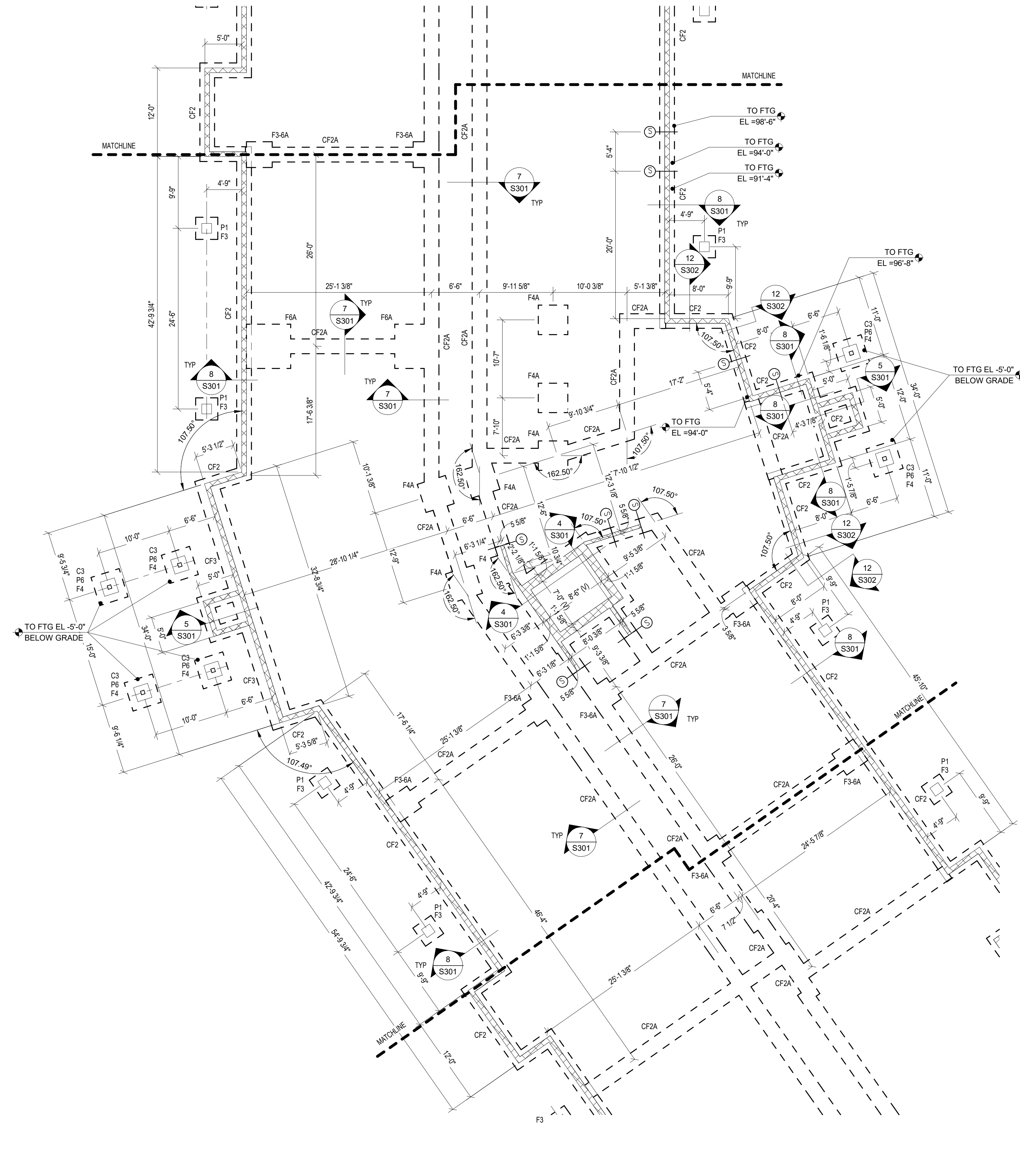
HUGO, MN

SHEET CONTENTS:
FOUNDATION PLAN - AREA A

SHEET NO.

S101A

22124-16



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 - GC ALTERNATE (FOR PRICING PURPOSES): 8" CAST-IN-PLACE CONCRETE FOUNDATION WALLS MAY BE USED IN LIEU OF 8" CMU WALLS. REINFORCEMENT TO BE #4 VERTICALS AT 4'-0" ON CENTER WITH #4 HORIZONTALS AT 1'-0" ON CENTER. IF ALTERNATE IS SELECTED, CONTACT EOR TO HAVE STRUCTURAL DRAWINGS UPDATED.

KEYNOTES	
LABEL	NOTE

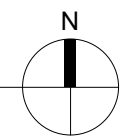
PIER SCHEDULE		
MARK	DETAIL	NOTES/COMMENTS
P1		
P2	2/S302	-
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P4	6/S302	-
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CONT FOOTING SCHEDULE					
MARK	SIZE	THICKNESS	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT	NOTES/COMMENTS
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F3-6B	3'-6" SQ	2'-0"	(4) #5	(4) #5	-
F4	4'-0" SQ	1'-0"	(4) #5	-	-
F4A	4'-0" SQ	1'-0"	(4) #5	-	THICKENED SLAB
F5A	5'-0" SQ	2'-0"	(5) #5	(5) #5	-
F5-6A	5'-6" SQ	2'-0"	(6) #5	(6) #5	THICKENED SLAB
F6A	6'-0" SQ	2'-0"	(6) #5	(6) #5	THICKENED SLAB
F6B	6'-0" SQ	2'-0"	(6) #5	(6) #5	-
F6-6	6'-6" SQ	1'-2"	(7) #5	(7) #4	-

COLUMN SCHEDULE				
SEE DETAIL 4/S402 FOR WOOD COLUMN DETAILS AND DETAIL 11/S402 FOR STEEL COLUMN DETAILS				
MARK	SIZE	BASE PLATE TYPE	ANCHOR ROD TYPE	COMMENTS
C1	HSS5x5x1/4	BP1	AR1	-
C1B	HSS5x5x1/4	BP3	AR1	-
C2	6x6 DF#2	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	TREATED (KDAT), SD 13/S403. SIMPSON ECCQ SERIES COLUMN CAP AT ROOF LEVEL
C3	HSS8x8x3/8	BP2	AR2	SHOP WELD SIMPSON CCOQ6SDS2.5 TO TOP OF 1/2" COL CAP PLATE WITH 3/16" FILLET WELD ALL AROUND.
C4	5 1/4"x5 1/4" PSL	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	-

1 FOUNDATION PLAN - AREA B
 S101B
 1/8" = 1'-0"



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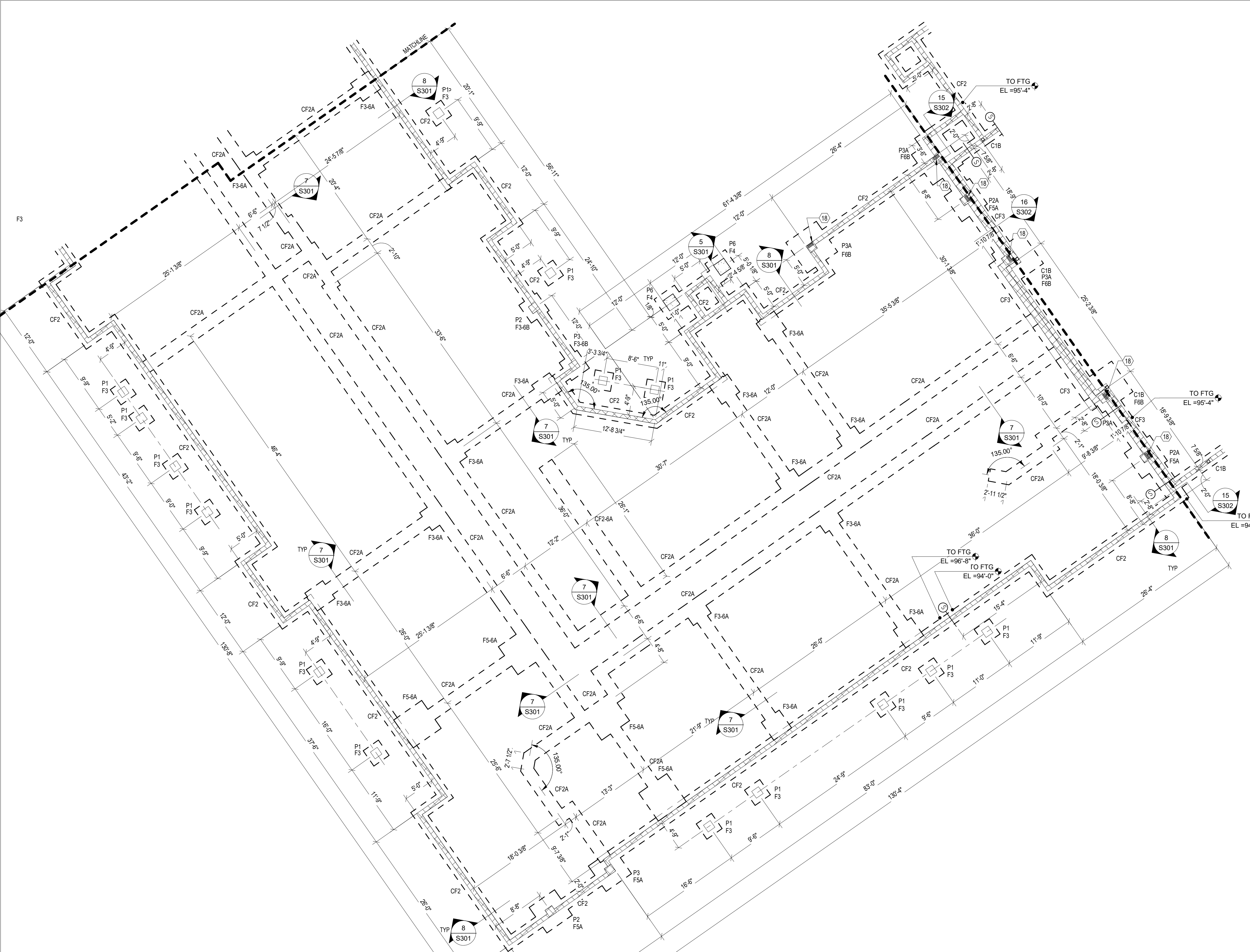
HUGO APARTMENTS

HUGO, MN

SHEET CONTENTS:
 FOUNDATION PLAN - AREA B

SHEET NO.
S101B

22124-16



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KEYNOTES

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PIER SCHEDULE

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P1		-
P2	2/S302	-
P2A	13/S302	-
P3	8/S302	-
P3A	14/S302	-
P4	6/S302	-
P5	10/S302	-
P6	10/S302	-

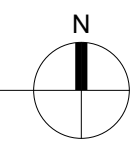
CONT FOOTING SCHEDULE

MARK	SIZE	THICKNESS	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT	NOTES/COMMENTS
CF2	2'-0" CONT	1'-0"	(2) #5 CONT	#4 @ 4'-0" OC	-
CF2A	2'-0" CONT	1'-0"	(2) #5 CONT	#4 @ 4'-0" OC	THICKENED SLAB
CF2-6A	2'-6" CONT	1'-0"	(3) #5 CONT	#4 @ 4'-0" OC	THICKENED SLAB
CF3	3'-0" CONT	1'-0"	(3) #5 CONT	#4 @ 4'-0" OC	-

PAD FOOTING SCHEDULE

MARK	SIZE	THICKNESS	BOTTOM REINFORCEMENT EACH WAY	TOP REINFORCEMENT EACH WAY	NOTES/COMMENTS
F3	3'-0" SQ	1'-0"	(3) #5	-	-
F3-6A	3'-6" SQ	2'-0"	(4) #5	(4) #5	THICKENED SLAB
F3-6B	3'-6" SQ	2'-0"	(4) #5	(4) #5	-
F4	4'-0" SQ	1'-0"	(4) #5	-	-
F4A	4'-0" SQ	1'-0"	(4) #5	-	THICKENED SLAB
F5A	5'-0" SQ	2'-0"	(5) #5	(5) #5	-
F5-6A	5'-6" SQ	2'-0"	(6) #5	(6) #5	THICKENED SLAB
F6A	6'-0" SQ	2'-0"	(6) #5	(6) #5	THICKENED SLAB
F6B	6'-0" SQ	2'-0"	(6) #5	(6) #5	-
F6-6	6'-6" SQ	1'-2"	(7) #5	(7) #4	-

1 FOUNDATION PLAN - AREA C
S101C 1/8" = 1'-0"



REVISIONS	DATE	COMMENTS
#		

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Date: 11/08/2024 License #: 58944

SPACE FOR ENGINEER'S SEAL

HUGO APARTMENTS

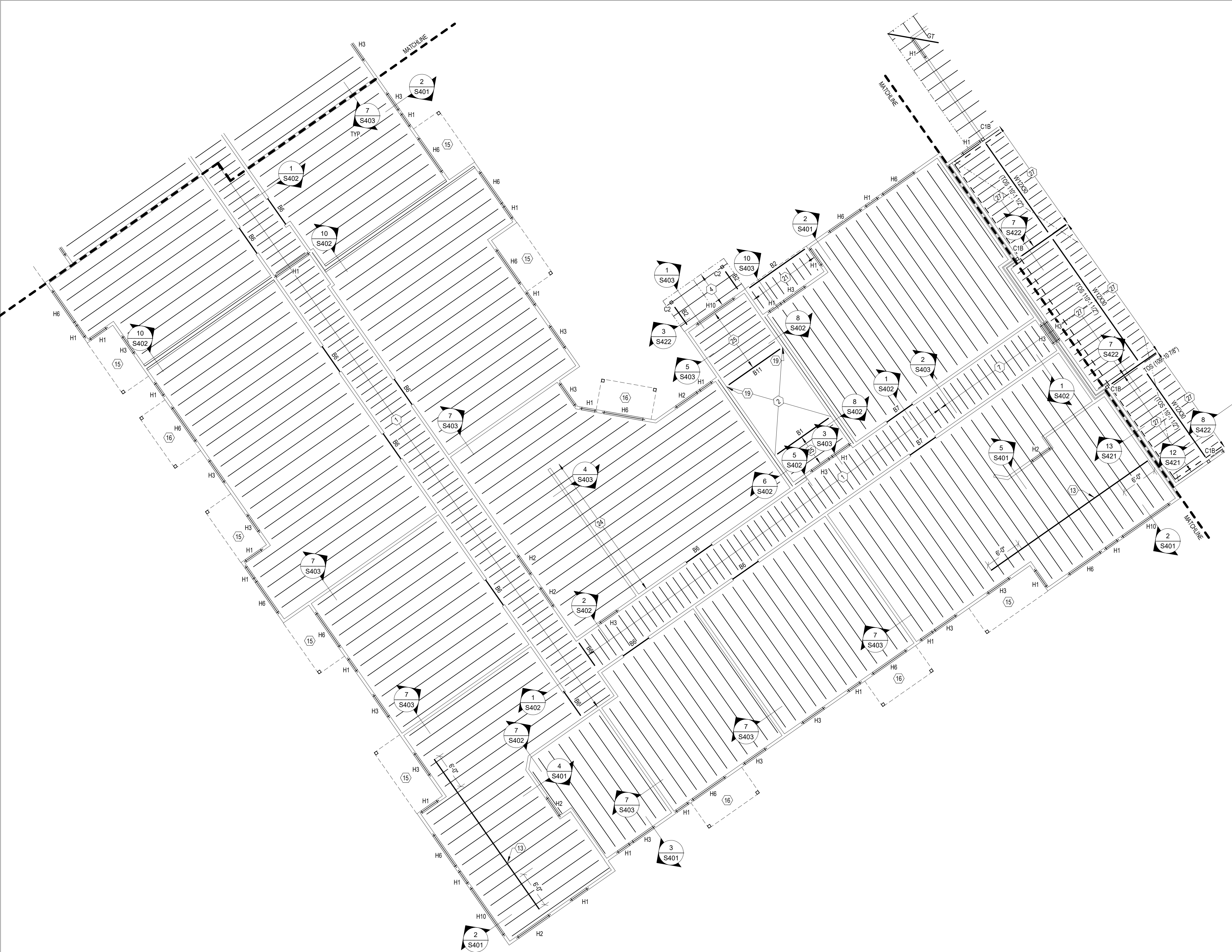
HUGO, MN

SHEET CONTENTS:
FOUNDATION PLAN - AREA C

SHEET NO.

S101C

22124-16



- FRAMING PLAN NOTES:**
- FLOOR FRAMING TO BE 2" FLOOR TRUSSES AT 2'-0" OC, UNO.
 - TRUSS BEARING ELEVATION = 109'-1 1/8", UNO.
 - CMU AT ELEVATOR SHAFT WALLS TO BE FULLY GROUTED CORES. VERTICAL REINFORCEMENT TO BE #5 AT 4'-0" OC.

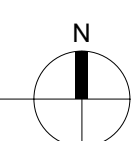
KEYNOTES	
LABEL	NOTE
1	2x10 JOISTS AT 1'-4" OC.
2	SEE DETAIL 7/S401 FOR STAIR FRAMING.
4	ROOF TRUSSES AT 1'-4" OC. SEE S001 FOR LOADING AND DESIGN FOR TOTAL SL = 110 PSF.
7	(2) 1-3/4"x9-1/2" LVL JOISTS AT 1'-4" OC.
13	SIMPSON CS16 STRAP ACROSS TOP OF FLOOR SHEATHING AND FASTEN INTO 2x6 BLOCKING TIGHT BETWEEN TRUSSES. SEE DETAIL 11/S403. FASTENING AND BLOCKING ONLY REQUIRED IN STRAP LENGTHS DIMENSIONED ON PLAN WITH 8d NAILS IN EVERY OTHER HOLE ON STRAP IN DIMENSIONED LENGTH.
15	SEE DETAIL 2/S201A FOR DECK FRAMING.
16	SEE DETAIL 3/S201A FOR DECK FRAMING.
19	BEAM TO CONNECT TO RATED WALL WITH SIMPSON MGU HANGER USING SDS 1/4"x4 1/2" SCREWS INTO (3) 1-3/4"x11 7/8" LVL HEADER AND (2) SPF#12 2x6 JACK STUDS EA SIDE OF HEADER INSTALLED PER SIMPSON L-C-FACEMNTFW LETTER.
21	TREATED 2x10 JOISTS AT 1'-4" OC.
24	(2) 2x6 SPF #11/2 STUDS AT 1'-4" OC.
25	2x10 FLOOR JOIST AT 1'-0" OC.
27	1-3/4"x14" LVL ROOF JOISTS AT 2'-0" OC.

COLUMN SCHEDULE				
SEE DETAIL 4/S402 FOR WOOD COLUMN DETAILS AND DETAIL 11/S402 FOR STEEL COLUMN DETAILS				
MARK	SIZE	BASE PLATE TYPE	ANCHOR ROD TYPE	COMMENTS
C1	HSS5x5x1/4	BP1	AR1	-
C1B	HSS5x5x1/4	BP3	AR1	-
C2	6x6 DF#2	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"Øx6" ADHESIVE ANCHOR	TREATED (KDAT), SD 13/S403. SIMPSON ECCO SERIES COLUMN CAP AT ROOF LEVEL.
C3	HSS8x8x3/8	BP2	AR2	SHOP WELD SIMPSON CCOQ6SDS2.5 TO TOP OF 1/2" COL CAP PLATE WITH 3/16" FILLET WELD ALL AROUND.
C4	5 1/4"x5 1/4" PSL	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"Øx6" ADHESIVE ANCHOR	-

HEADER SCHEDULE				
MARK	SIZE	JACK STUD	KING STUDS	COMMENTS
H1	(2) 2x8	(1) 2x6	(1) 2x6	-
H2	(2) 2x8	(2) 2x6	(1) 2x6	-
H3	(2) 2x10	(2) 2x6	(1) 2x6	-
H4	(3) 2x12	(2) 2x6	(1) 2x6	-
H5	(3) 2x12	(3) 2x6	(1) 2x6	-
H6	(3) 2x12	(4) 2x6	(1) 2x6	-
H7	(2) 1 3/4"x9 1/2" LVL	(2) 2x6	(2) 2x6	OMIT HEADER SILL PLATE AT INDIVIDUAL GARAGE OPENINGS
H8	(2) 1 3/4"x11 1/4" LVL	(2) 2x6	(1) 2x6	-
H9	(2) 1 3/4"x11 1/4" LVL	(3) 2x6	(1) 2x6	-
H10	(2) 1 3/4"x11 1/4" LVL	(4) 2x6	(1) 2x6	-
H11	(2) 1 3/4"x11 1/4" LVL	(1) 2x8	(3) 2x8	-
H12	(3) 1 3/4"x14" LVL	(5) 2x6	(1) 2x6	OMIT HEADER SILL PLATE

BEAM SCHEDULE			
MARK	SIZE	WOOD POST	COMMENTS
B1	STAIR BEAM	(3) 2x6	SD 7/S401
B2	(3) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B3	(2) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B4	(3) 2x10	(1) 2x6	-
B5	(3) 2x10	(2) 2x6	-
B6	(3) 2x10	(3) 2x6	-
B7	(3) 1 3/4"x9 1/2" LVL	(3) 2x6	-
B8	(3) 1 3/4"x24" LVL	(3) 2x6	-
B9	(3) 1 3/4"x16" LVL	(5) 2x6	-
B10	(3) 1 3/4"x14" LVL	(4) 2x6	-
B11	(3) 1 3/4"x11 7/8" LVL	SEE PLAN	-

1 SECOND FLOOR FRAMING PLAN - AREA C
S201C 1/8" = 1'-0"



Revisions #	DATE	COMMENTS

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Date: 11/08/2024 License #: 58944
SPACE FOR ENGINEER'S SEAL

HUGO APARTMENTS

HUGO, MN

SHEET CONTENTS:
SECOND FLOOR FRAMING PLAN
- AREA C

SHEET NO.

S201C

22124-16



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Drawn by: **AH**
Date Issued: **11/08/2024**

Revisions	DATE	COMMENTS
#		

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Date: **11/08/2024** License #: **58944**
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HUGO APARTMENTS

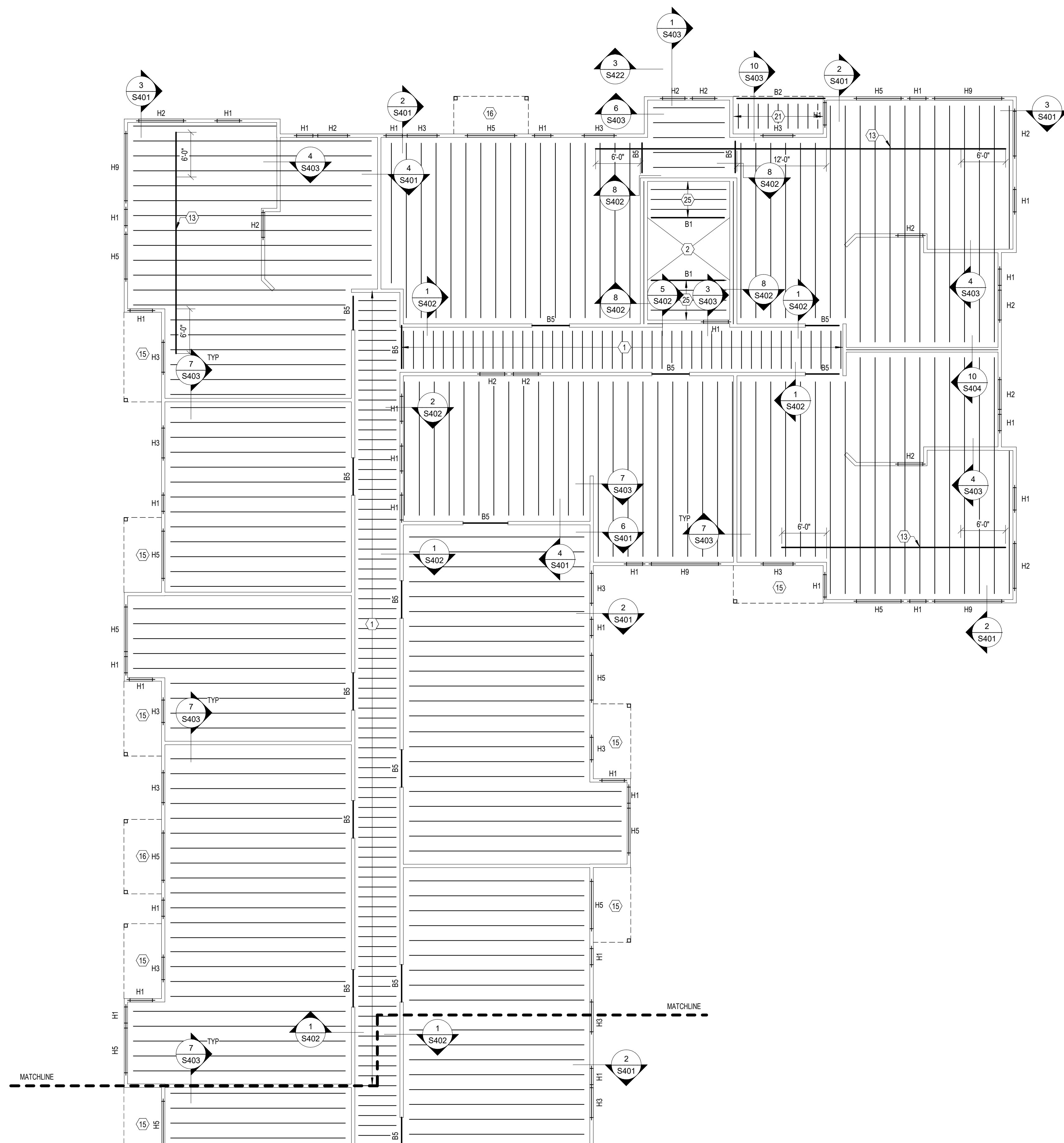
HUGO, MN

SHEET CONTENTS:
THIRD FLOOR FRAMING PLAN -
AREA A

SHEET NO.

S202A

22124-16



FRAMING PLAN NOTES:

- FLOOR FRAMING TO BE 2" FLOOR TRUSSES AT 2'-0", UNO.
- TRUSS BEARING ELEVATION = 120'-3", UNO.
- CMU AT ELEVATOR SHAFT WALLS TO BE FULLY GROUTED CORES. VERTICAL REINFORCEMENT TO BE #5 AT 4'-0" OC.

KEYNOTES

LABEL	NOTE
1	2x10 JOISTS AT 1'-4" OC.
2	SEE DETAIL 7/S401 FOR STAIR FRAMING.
13	SIMPSON CS16 STRAP ACROSS TOP OF FLOOR SHEATHING AND FASTEN INTO 2x6 BLOCKING TIGHT BETWEEN TRUSSES. SEE DETAIL 11/S403. FASTENING AND BLOCKING ONLY REQUIRED IN STRAP LENGTHS DIMENSIONED ON PLAN WITH 8d NAILS IN EVERY OTHER HOLE ON STRAP IN DIMENSIONED LENGTH.
15	SEE DETAIL 2/S201A FOR DECK FRAMING.
16	SEE DETAIL 3/S201A FOR DECK FRAMING.
21	TREATED 2x10 JOISTS AT 1'-4" OC.
25	2x10 FLOOR JOIST AT 1'-0" OC.

COLUMN SCHEDULE

SEE DETAIL 4/S402 FOR WOOD COLUMN DETAILS AND DETAIL 11/S402 FOR STEEL COLUMN DETAILS

MARK	SIZE	BASE PLATE TYPE	ANCHOR ROD TYPE	COMMENTS
C1	HSS5x5x1/4	BP1	AR1	-
C1B	HSS5x5x1/4	BP3	AR1	-
C2	6x6 DF#2	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	TREATED (KDAT), SD 13/S403. SIMPSON ECCO SERIES COLUMN CAP AT ROOF LEVEL
C3	HSS8x8x3/8	BP2	AR2	SHOP WELD SIMPSON CCO6SDS2.5 TO TOP OF 1/2" COL CAP PLATE WITH 3/16" FILLET WELD ALL AROUND.
C4	5 1/4"x5 1/4" PSL	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	-

HEADER SCHEDULE

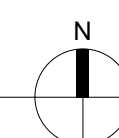
MARK	SIZE	JACK STUD	KING STUDS	COMMENTS
H1	(2) 2x8	(1) 2x6	(1) 2x6	-
H2	(2) 2x8	(2) 2x6	(1) 2x6	-
H3	(2) 2x10	(2) 2x6	(1) 2x6	-
H4	(3) 2x12	(2) 2x6	(1) 2x6	-
H5	(3) 2x12	(3) 2x6	(1) 2x6	-
H6	(3) 2x12	(4) 2x6	(1) 2x6	-
H7	(2) 1 3/4"x9 1/2" LVL	(2) 2x6	(2) 2x6	OMIT HEADER SILL PLATE AT INDIVIDUAL GARAGE OPENINGS
H8	(2) 1 3/4"x11 1/4" LVL	(2) 2x6	(1) 2x6	-
H9	(2) 1 3/4"x11 1/4" LVL	(3) 2x6	(1) 2x6	-
H10	(2) 1 3/4"x11 1/4" LVL	(4) 2x6	(1) 2x6	-
H11	(2) 1 3/4"x11 1/4" LVL	(1) 2x8	(3) 2x8	-
H12	(3) 1 3/4"x14" LVL	(5) 2x6	(1) 2x6	OMIT HEADER SILL PLATE

BEAM SCHEDULE

MARK	SIZE	WOOD POST	COMMENTS
B1	STAIR BEAM	(3) 2x6	SD 7/S401
B2	(3) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B3	(2) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B4	(3) 2x10	(1) 2x6	-
B5	(3) 2x10	(2) 2x6	-
B6	(3) 2x10	(3) 2x6	-
B7	(3) 1 3/4"x9 1/2" LVL	(3) 2x6	-
B8	(3) 1 3/4"x24" LVL	(3) 2x6	-
B9	(3) 1 3/4"x16" LVL	(5) 2x6	-
B10	(3) 1 3/4"x14" LVL	(4) 2x6	-
B11	(3) 1 3/4"x11 7/8" LVL	SEE PLAN	-

1 THIRD FLOOR FRAMING PLAN - AREA A

S202A 1/8" = 1'-0"





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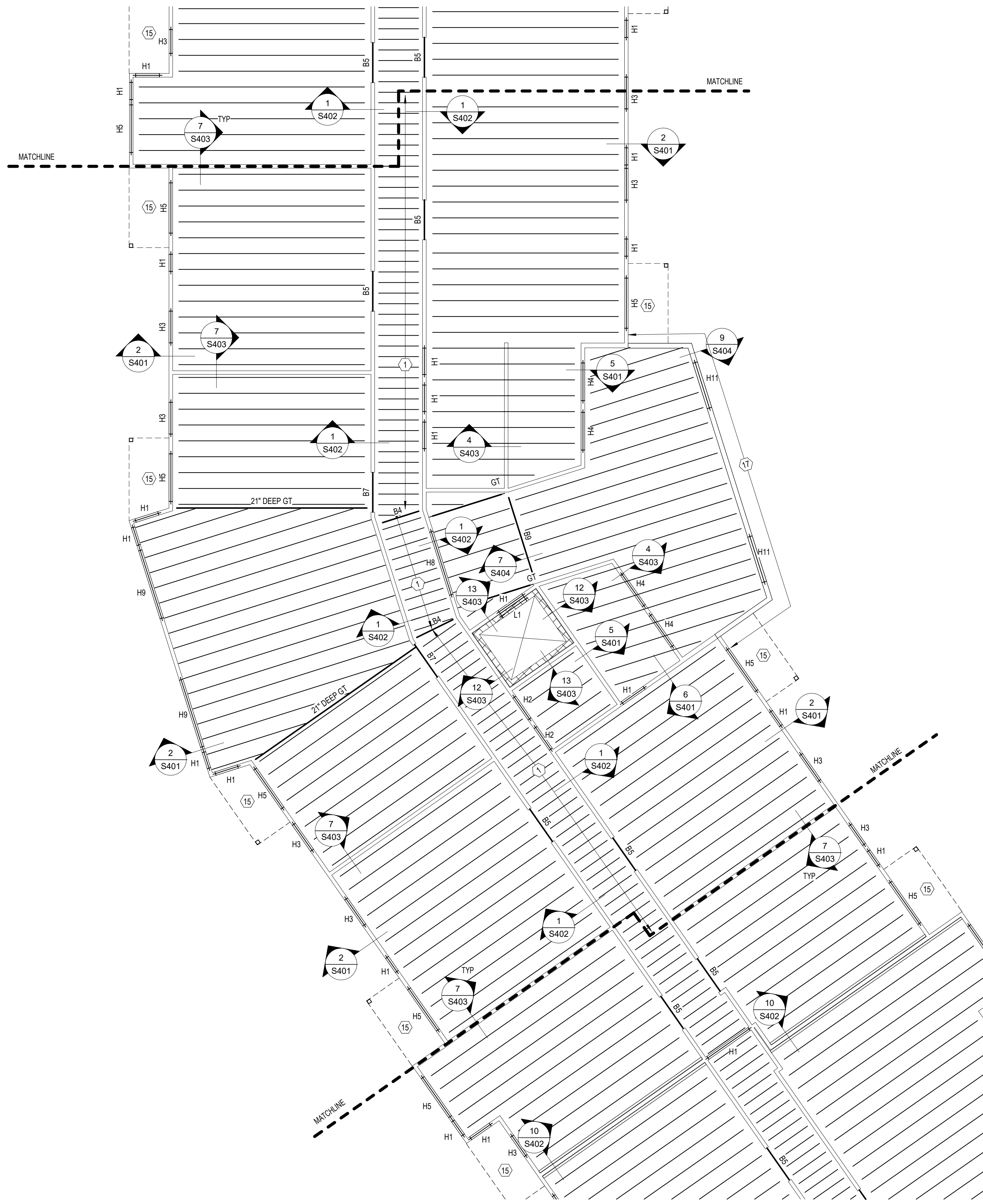
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Drawn by: **AH**
Date Issued: **11/08/2024**

Revisions	DATE	COMMENTS
#		

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Date: **11/08/2024**
License #: **58944**
SPACE FOR ENGINEER'S SEAL



1
S202B
THIRD FLOOR FRAMING PLAN - AREA B
1/8" = 1'-0"

FRAMING PLAN NOTES:

- FLOOR FRAMING TO BE 24" FLOOR TRUSSES AT 2'-0", UNO.
- TRUSS BEARING ELEVATION = 120'-3", UNO.
- CMU AT ELEVATOR SHAFT WALLS TO BE FULLY GROUTED CORES. VERTICAL REINFORCEMENT TO BE #5 AT 4'-0" OC.

LINTEL SCHEDULE

MARK	SIZE	COMMENTS
L1	16" DEEP MASONRY LINTEL	(2) #5 CONT BOT, SD 6/S404

KEYNOTES

LABEL	NOTE
1	2x10 JOISTS AT 1'-4" OC.
15	SEE DETAIL 2/S201A FOR DECK FRAMING.
17	TALL WALL WITH (2) 2x8 SPF #1/#2 STUDS AT 2'-0" OC.

COLUMN SCHEDULE

SEE DETAIL 4/S402 FOR WOOD COLUMN DETAILS AND DETAIL 11/S402 FOR STEEL COLUMN DETAILS

MARK	SIZE	BASE PLATE TYPE	ANCHOR ROD TYPE	COMMENTS
C1	HSS5x5x1/4	BP1	AR1	-
C1B	HSS5x5x1/4	BP3	AR1	-
C2	6x6 DF#2	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	TREATED (KDAT), SD 13/S403. SIMPSON ECCO SERIES COLUMN CAP AT ROOF LEVEL
C3	HSS8x8x3/8	BP2	AR2	SHOP WELD SIMPSON CCO6SDS2.5 TO TOP OF 1/2" COL CAP PLATE WITH 3/16" FILLET WELD ALL AROUND.
C4	5 1/4"x5 1/4" PSL	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	-

HEADER SCHEDULE

MARK	SIZE	JACK STUD	KING STUDS	COMMENTS
H1	(2) 2x8	(1) 2x6	(1) 2x6	-
H2	(2) 2x8	(2) 2x6	(1) 2x6	-
H3	(2) 2x10	(2) 2x6	(1) 2x6	-
H4	(3) 2x12	(2) 2x6	(1) 2x6	-
H5	(3) 2x12	(3) 2x6	(1) 2x6	-
H6	(3) 2x12	(4) 2x6	(1) 2x6	-
H7	(2) 1 3/4"x9 1/2" LVL	(2) 2x6	(2) 2x6	OMIT HEADER SILL PLATE AT INDIVIDUAL GARAGE OPENINGS
H8	(2) 1 3/4"x11 1/4" LVL	(2) 2x6	(1) 2x6	-
H9	(2) 1 3/4"x11 1/4" LVL	(3) 2x6	(1) 2x6	-
H10	(2) 1 3/4"x11 1/4" LVL	(4) 2x6	(1) 2x6	-
H11	(2) 1 3/4"x11 1/4" LVL	(1) 2x8	(3) 2x8	-
H12	(3) 1 3/4"x14" LVL	(5) 2x6	(1) 2x6	OMIT HEADER SILL PLATE

BEAM SCHEDULE

MARK	SIZE	WOOD POST	COMMENTS
B1	STAIR BEAM	(3) 2x6	SD 7/S401
B2	(3) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B3	(2) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B4	(3) 2x10	(1) 2x6	-
B5	(3) 2x10	(2) 2x6	-
B6	(3) 2x10	(3) 2x6	-
B7	(3) 1 3/4"x9 1/2" LVL	(3) 2x6	-
B8	(3) 1 3/4"x24" LVL	(3) 2x6	-
B9	(3) 1 3/4"x16" LVL	(5) 2x6	-
B10	(3) 1 3/4"x14" LVL	(4) 2x6	-
B11	(3) 1 3/4"x11 7/8" LVL	SEE PLAN	-

HUGO APARTMENTS

HUGO, MN

SHEET CONTENTS:
THIRD FLOOR FRAMING PLAN - AREA B

SHEET NO.

S202B

22124-16

11/18/2024 9:08:00 AM



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Drawn by: AH
Date Issued: 11/08/2024

Revisions	DATE	COMMENTS
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Date: 11/08/2024 License #: 58844
SPACE FOR ENGINEER'S SEAL

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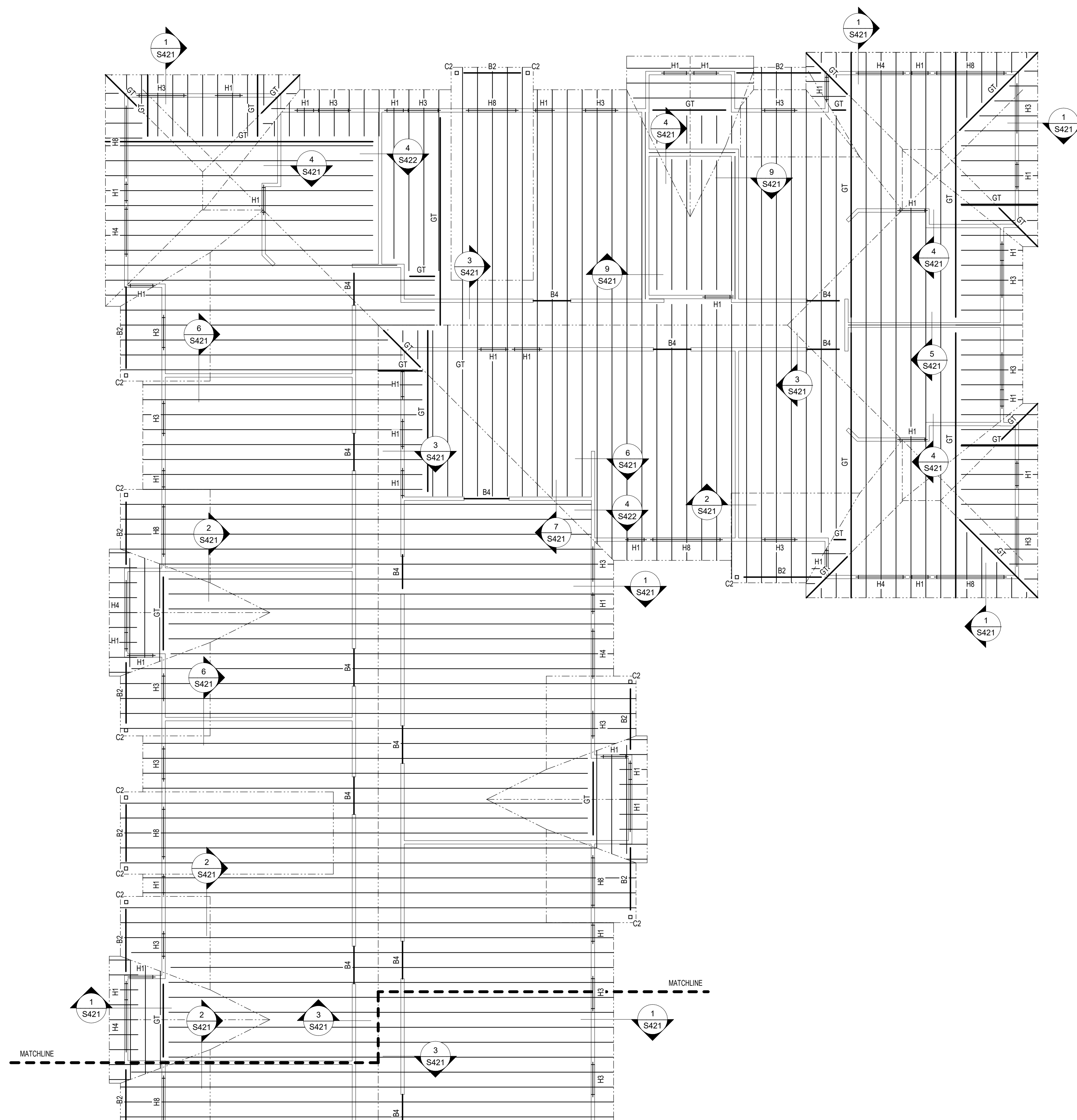
HUGO, MN

SHEET CONTENTS:
ROOF FRAMING PLAN - AREA A

SHEET NO.

S203A

21214-16



ROOF FRAMING PLAN NOTES:

- ROOF FRAMING TO BE PITCHED TRUSSES AT 2'-0" OC, UNO.
- ROOF TRUSS BEARING ELEVATION = 131'-4 7/8" UNO.
- CMU AT ELEVATOR SHAFT WALLS TO BE FULLY GROUTED CORES. VERTICAL REINFORCEMENT TO BE #5 AT 4'-0" OC.

KEYNOTES

LABEL	NOTE

COLUMN SCHEDULE

SEE DETAIL 4/S402 FOR WOOD COLUMN DETAILS AND DETAIL 11/S402 FOR STEEL COLUMN DETAILS

MARK	SIZE	BASE PLATE TYPE	ANCHOR ROD TYPE	COMMENTS
C1	HSS5x5x1/4	BP1	AR1	-
C1B	HSS5x5x1/4	BP3	AR1	-
C2	6x6 DF#2	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	TREATED (KDAT), SD 13/S403. SIMPSON ECCO SERIES COLUMN CAP AT ROOF LEVEL
C3	HSS8x8x3/8	BP2	AR2	SHOP WELD SIMPSON CCO6SDS2.5 TO TOP OF 1/2" COL CAP PLATE WITH 3/16" FILLET WELD ALL AROUND.
C4	5 1/4"x5 1/4" PSL	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	-

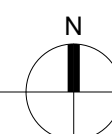
HEADER SCHEDULE

MARK	SIZE	JACK STUD	KING STUDS	COMMENTS
H1	(2) 2x8	(1) 2x6	(1) 2x6	-
H2	(2) 2x8	(2) 2x6	(1) 2x6	-
H3	(2) 2x10	(2) 2x6	(1) 2x6	-
H4	(3) 2x12	(2) 2x6	(1) 2x6	-
H5	(3) 2x12	(3) 2x6	(1) 2x6	-
H6	(3) 2x12	(4) 2x6	(1) 2x6	-
H7	(2) 1 3/4"x9 1/2" LVL	(2) 2x6	(2) 2x6	OMIT HEADER SILL PLATE AT INDIVIDUAL GARAGE OPENINGS
H8	(2) 1 3/4"x11 1/4" LVL	(2) 2x6	(1) 2x6	-
H9	(2) 1 3/4"x11 1/4" LVL	(3) 2x6	(1) 2x6	-
H10	(2) 1 3/4"x11 1/4" LVL	(4) 2x6	(1) 2x6	-
H11	(2) 1 3/4"x11 1/4" LVL	(1) 2x8	(3) 2x8	-
H12	(3) 1 3/4"x14" LVL	(5) 2x6	(1) 2x6	OMIT HEADER SILL PLATE

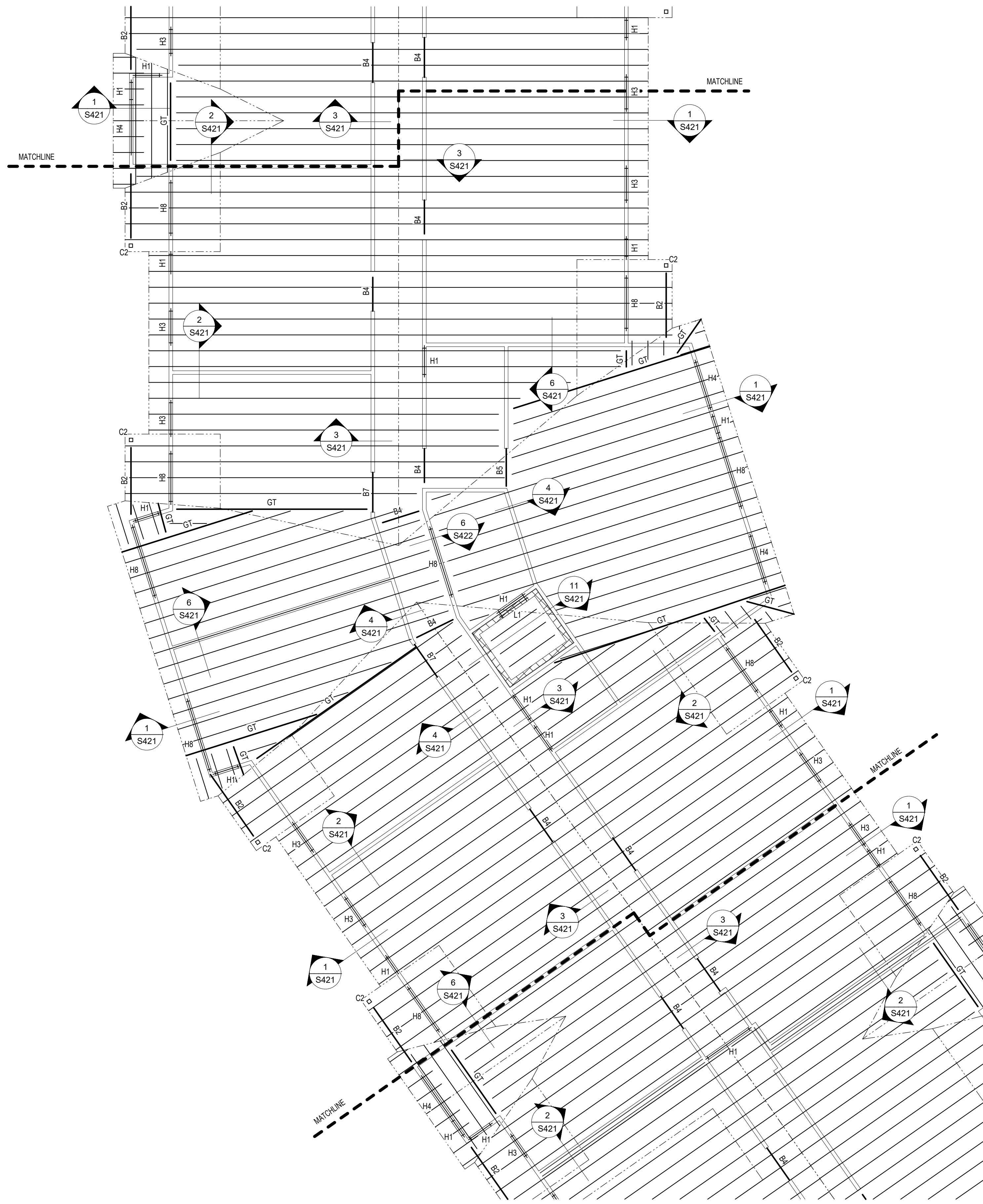
BEAM SCHEDULE

MARK	SIZE	WOOD POST	COMMENTS
B1	STAIR BEAM	(3) 2x6	SD 7/S401
B2	(3) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B3	(2) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B4	(3) 2x10	(1) 2x6	-
B5	(3) 2x10	(2) 2x6	-
B6	(3) 2x10	(3) 2x6	-
B7	(3) 1 3/4"x9 1/2" LVL	(3) 2x6	-
B8	(3) 1 3/4"x24" LVL	(3) 2x6	-
B9	(3) 1 3/4"x16" LVL	(5) 2x6	-
B10	(3) 1 3/4"x14" LVL	(4) 2x6	-
B11	(3) 1 3/4"x11 7/8" LVL	SEE PLAN	-

1 ROOF FRAMING PLAN - AREA A
S203A 1/8" = 1'-0"



11/18/2024 9:06:05 AM



ROOF FRAMING PLAN NOTES:

1. ROOF FRAMING TO BE PITCHED TRUSSES AT 2'-0" OC, UNO.
2. ROOF TRUSS BEARING ELEVATION = 131'-4 7/8" UNO.
3. CMU AT ELEVATOR SHAFT WALLS TO BE FULLY GROUTED CORES. VERTICAL REINFORCEMENT TO BE #5 AT 4'-0" OC.

KEYNOTES	
LABEL	NOTE

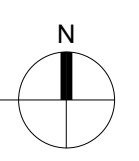
LINTEL SCHEDULE		
MARK	SIZE	COMMENTS
L1	16" DEEP MASONRY LINTEL	(2) #5 CONT BOT. SD 6/S404

COLUMN SCHEDULE				
SEE DETAIL 4/S402 FOR WOOD COLUMN DETAILS AND DETAIL 11/S402 FOR STEEL COLUMN DETAILS				
MARK	SIZE	BASE PLATE TYPE	ANCHOR ROD TYPE	COMMENTS
C1	HSS5x5x1/4	BP1	AR1	-
C1B	HSS5x5x1/4	BP3	AR1	-
C2	6x6 DF#2	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	TREATED (KDAT), SD 13/S403. SIMPSON ECCO SERIES COLUMN CAP AT ROOF LEVEL
C3	HSS8x8x3/8	BP2	AR2	SHOP WELD SIMPSON CCO6SDS2.5 TO TOP OF 1/2" COL CAP PLATE WITH 3/16" FILLET WELD ALL AROUND.
C4	5 1/4"x5 1/4" PSL	SIMPSON ABU66Z (GROUT STANDOFF)	5/8"x6" ADHESIVE ANCHOR	-

HEADER SCHEDULE				
MARK	SIZE	JACK STUD	KING STUDS	COMMENTS
H1	(2) 2x8	(1) 2x6	(1) 2x6	-
H2	(2) 2x8	(2) 2x6	(1) 2x6	-
H3	(2) 2x10	(2) 2x6	(1) 2x6	-
H4	(3) 2x12	(2) 2x6	(1) 2x6	-
H5	(3) 2x12	(3) 2x6	(1) 2x6	-
H6	(3) 2x12	(4) 2x6	(1) 2x6	-
H7	(2) 1 3/4"x9 1/2" LVL	(2) 2x6	(2) 2x6	OMIT HEADER SILL PLATE AT INDIVIDUAL GARAGE OPENINGS
H8	(2) 1 3/4"x11 1/4" LVL	(2) 2x6	(1) 2x6	-
H9	(2) 1 3/4"x11 1/4" LVL	(3) 2x6	(1) 2x6	-
H10	(2) 1 3/4"x11 1/4" LVL	(4) 2x6	(1) 2x6	-
H11	(2) 1 3/4"x11 1/4" LVL	(1) 2x8	(3) 2x8	-
H12	(3) 1 3/4"x14" LVL	(5) 2x6	(1) 2x6	OMIT HEADER SILL PLATE

BEAM SCHEDULE			
MARK	SIZE	WOOD POST	COMMENTS
B1	STAIR BEAM	(3) 2x6	SD 7/S401
B2	(3) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B3	(2) 2x10 (TREATED)	SEE PLAN	SD 13/S403
B4	(3) 2x10	(1) 2x6	-
B5	(3) 2x10	(2) 2x6	-
B6	(3) 2x10	(3) 2x6	-
B7	(3) 1 3/4"x9 1/2" LVL	(3) 2x6	-
B8	(3) 1 3/4"x24" LVL	(3) 2x6	-
B9	(3) 1 3/4"x16" LVL	(5) 2x6	-
B10	(3) 1 3/4"x14" LVL	(4) 2x6	-
B11	(3) 1 3/4"x11 7/8" LVL	SEE PLAN	-

1 ROOF FRAMING PLAN - AREA B
S203B 1/8" = 1'-0"



Revisions	DATE	COMMENTS
#		

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Print Name: **Michael Tellez** License #: **58944**
Date: **11/08/2024**

SPACE FOR ENGINEER'S SEAL

HUGO APARTMENTS

HUGO, MN

SHEET CONTENTS:
ROOF FRAMING PLAN - AREA B

SHEET NO.
S203B

22124-16

Revisions	DATE	COMMENTS
#		

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Date: 11/08/2024 License #: 58944

SPACE FOR ENGINEER'S SEAL

HUGO APARTMENTS

HUGO, MN

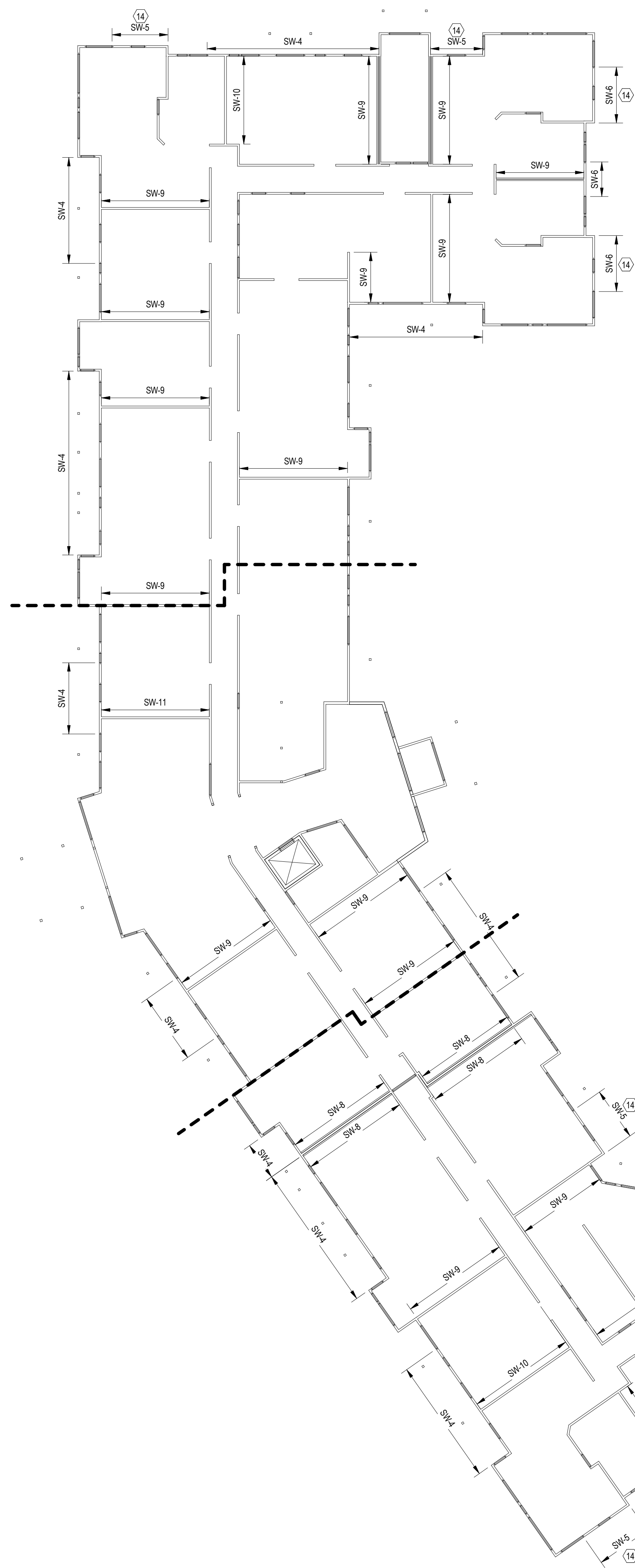
SHEET CONTENTS:
SHEARWALL PLAN

SHEET NO.
S230

22124-16

SHEAR WALL SCHEDULE

LABEL	3RD LEVEL				2ND LEVEL				1ST LEVEL				BASE TENSION ROD ANCHOR	SILL PL FASTENING @ BASE LEVEL
	TENSION ROD	T.O. WALL TAKE-UP DEVICE	T.O. WALL BEARING PLATE	END POST / COMP POST	TENSION ROD	T.O. WALL TAKE-UP DEVICE	T.O. WALL BEARING PLATE	END POST / COMP POST	TENSION ROD	T.O. WALL TAKE-UP DEVICE	T.O. WALL BEARING PLATE	END POST / COMP POST		
SW-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(2) 2x4	1/2" ADHESIVE ANCHOR W/ 1'-0" CMU PIER EMBED S.D. 6/S302	1/2"x5" SIMPSON TITEN HD ANCHORS @ 2'-8" OC
SW-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x8	NOT REQUIRED	1/2"x5" SIMPSON TITEN HD ANCHORS @ 4'-0" OC
SW-3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x6	NOT REQUIRED	1/2"x5" SIMPSON TITEN HD ANCHORS @ 4'-0" OC
SW-4	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x6	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x6	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x6 / (1) 2x6	NOT REQUIRED	1/2"x5" SIMPSON TITEN HD ANCHORS @ 2'-8" OC
SW-5	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(2) 2x6	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(2) 2x6	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(2) 2x6 / (1) 2x6	1/2" ADHESIVE ANCHOR W/ 1'-2" CMU PIER EMBED S.D. 2/S302 TYP	1/2"x5" SIMPSON TITEN HD ANCHORS @ 2'-8" OC
SW-6	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(2) 2x6	5/8" ATS ROD	SIMPSON RTUD5	SIMPSON BPRUD5-8	(2) 2x6	3/4" ATS ROD	SIMPSON RTUD6	SIMPSON BPRUD5-8	(2) 2x6 / (1) 2x6	EMBED PLATE AT CMU PIER S.D. 1/S302 TYP	1/2"x5" SIMPSON TITEN HD ANCHORS @ 1'-4" OC
SW-7	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(2) 2x6	5/8" ATS ROD	SIMPSON RTUD5	SIMPSON BPRUD5-8	(2) 2x6 / (1) 2x6	7/8" ATS ROD	SIMPSON RTUD7	SIMPSON BPRUD5-6B	(2) 2x6 / (3) 2x6	EMBED PLATE AT CMU PIER S.D. 14/S302	1/2"x5" SIMPSON TITEN HD ANCHORS @ 1'-4" OC
SW-8	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x4	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x4	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x4 / (1) 2x4	NOT REQUIRED	1/2"x5" SIMPSON TITEN HD ANCHORS @ 4'-0" OC
SW-9	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(4) 2x6	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(4) 2x6	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(4) 2x6 / (1) 2x6	1/2" ADHESIVE ANCHOR W/ 0'-9" CONC EMBED S.D. 1/S302	1/2"x5" SIMPSON TITEN HD ANCHORS @ 3'-4" OC
SW-10	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(4) 2x6	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(4) 2x6	3/4" ATS ROD	SIMPSON RTUD6	SIMPSON BPRUD5-8	(4) 2x6 / (2) 2x6	3/4" ADHESIVE ANCHOR W/ 1'-0" CONC EMBED S.D. 1/S302	1/2"x5" SIMPSON TITEN HD ANCHORS @ 1'-8" OC
SW-11	1/2" ATS ROD	SIMPSON RTUD4B	SIMPSON BPRUD3-4B	(4) 2x6	5/8" ATS ROD	SIMPSON RTUD5	SIMPSON BPRUD5-8	(4) 2x6	7/8" ATS ROD	SIMPSON RTUD7	SIMPSON BPRUD5-6B	(4) 2x6 / (2) 2x6	7/8" ADHESIVE ANCHOR W/ 1'-4" CONC EMBED S.D. 1/S302	1/2"x5" SIMPSON TITEN HD ANCHORS @ 1'-4" OC
SW-12	N/A	N/A	N/A	N/A	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x6	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	(2) 2x6	NOT REQUIRED	1/2"x5" SIMPSON TITEN HD ANCHORS @ 4'-0" OC



1 SHEARWALL PLAN
S230
1/16" = 1'-0"

LABEL	NOTE
14	SIMPSON CS16 STRAPS AT OPENING KING STUDS AND/OR AT 4'-0" OC MAXIMUM SPACING IN PERFORATED SHEARWALLS; SEE DETAILS 18/S231 AND 19/S231. STRAP END LENGTHS TO BE 15 INCHES WITH (13) 8d NAILS PER END LENGTH.

SHEAR WALL PLAN NOTES:

- SEE GENERAL NOTES FOR TYPICAL SHEATHING REQUIREMENTS. NOT SHOWN ON WALL SECTIONS.
- SEE S001 POST-INSTALLED ANCHORAGE NOTES FOR APPLICABLE ANCHORAGE REQUIREMENTS.
- INTERIOR CORRIDOR BEARING WALL SILL PLATE FASTENING TO BE 1/2"x5" SIMPSON TITEN HD ANCHORS @ 4'-0" UNO IN SHEAR WALL SCHEDULE.
- EXTERIOR BEARING WALL SILL PLATE FASTENING TO BE 1/2"x5" SIMPSON TITEN HD ANCHORS @ 4'-0" UNO IN SHEAR WALL SCHEDULE. SEE DETAIL 1/S301 FOR ANCHOR DIMENSIONS.
- PROVIDE SIMPSON BPS58-3HDG OR EQUAL SILL ANCHOR WASHERS AT ALL SHEAR WALL.
- MAXIMUM WALL STUD SPACING TO BE 16" OC FOR ALL SHEAR WALLS, UNO.
- TENSION RODS TO BE STANDARD STRENGTH MATERIAL, ASTM F1554 GRADE 36 OR A36 (F_y=58 KSI) UNO.
- TENSION RODS DENOTED WITH "H.S." TO BE HIGH STRENGTH MATERIAL, ASTM A449 OR F1554 GRADE 105 (F_y=120 KSI MIN.) UNO.
- OVERSIZE TENSION ROD HOLES IN WOOD PLATES TO COMPLY WITH MANUFACTURER'S SPECIFICATIONS.
- SEE DETAIL 17/S231 FOR FASTENING REQUIREMENTS AT SHEAR WALLS WITH PANEL EDGE FASTENING OF 3" OC OR LESS.
- AT FLOORS WHERE TENSION ROD IS NOT REQUIRED, COMPRESSION POSTS MAY BE OMITTED. SEE SCHEDULE FOR REQUIRED NUMBER OF END POSTS.
- SEE DETAIL 16/S231 FOR FASTENING REQUIREMENTS AT SHEAR WALL PANEL BUTT JOINTS.
- SEE DETAIL 13/S231 FOR SIMPSON ATS FRAMING DETAILS.
- SEE SHEET S231 FOR SHEARWALL SECTIONS.



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Proj. Engineer: TJO
Drawn by: AH
Date Issued: 11/08/2024

Revisions	DATE	COMMENTS
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Date: 11/08/2024 License #: 58944
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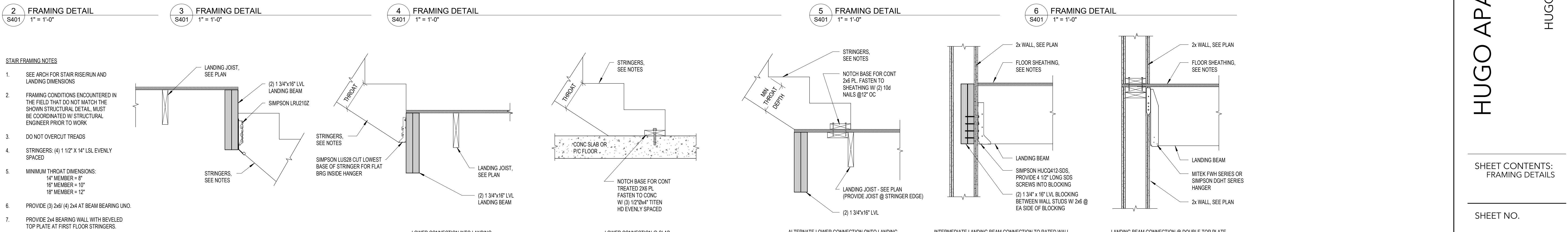
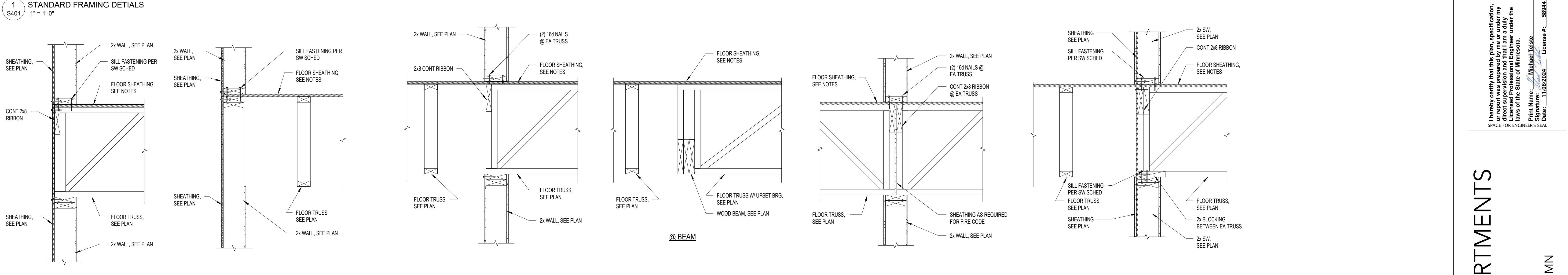
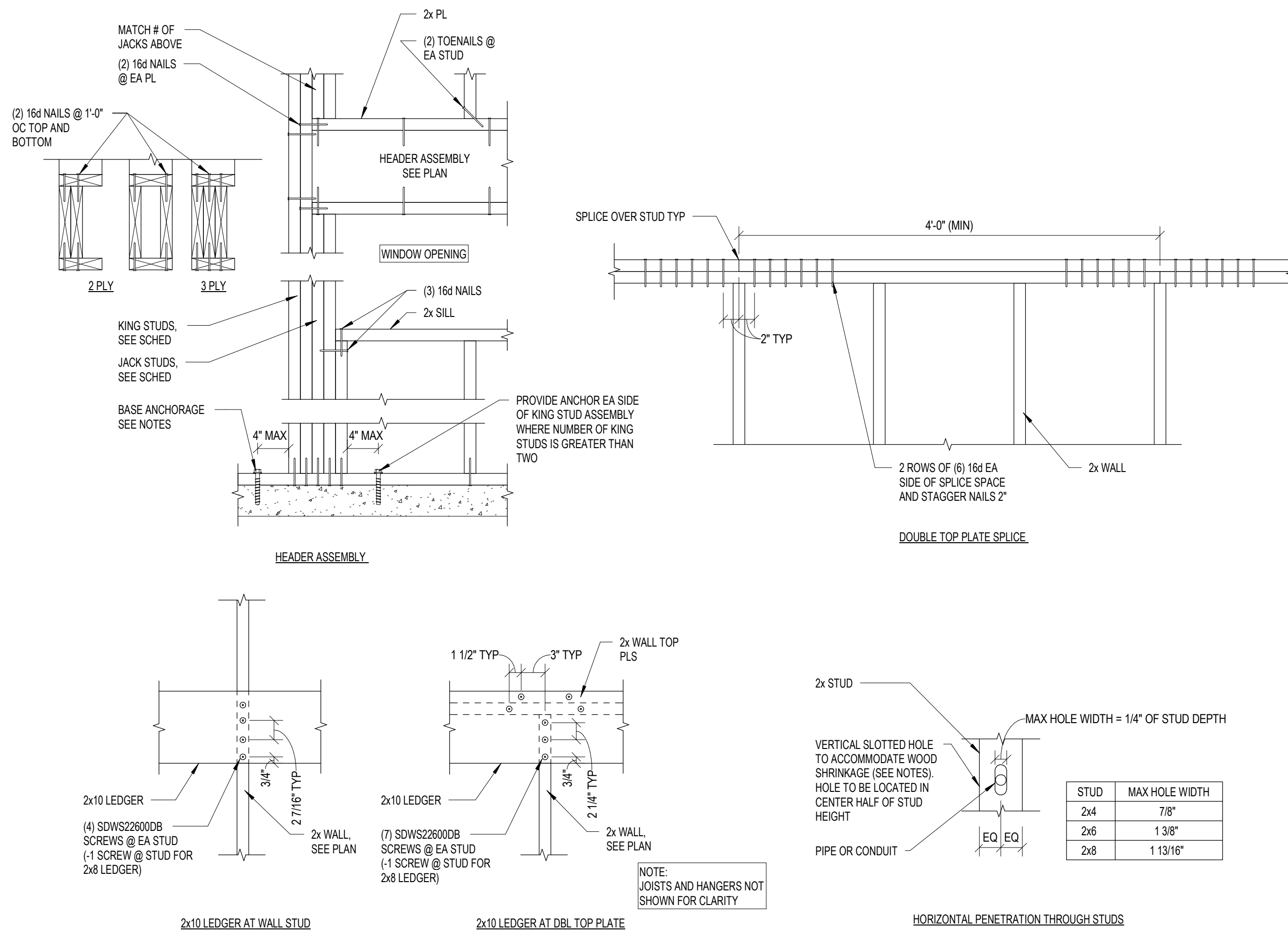
HUGO, MN

SHEET CONTENTS:
FRAMING DETAILS

SHEET NO.

S401

22124-16



11/08/2024 9:06:15 AM



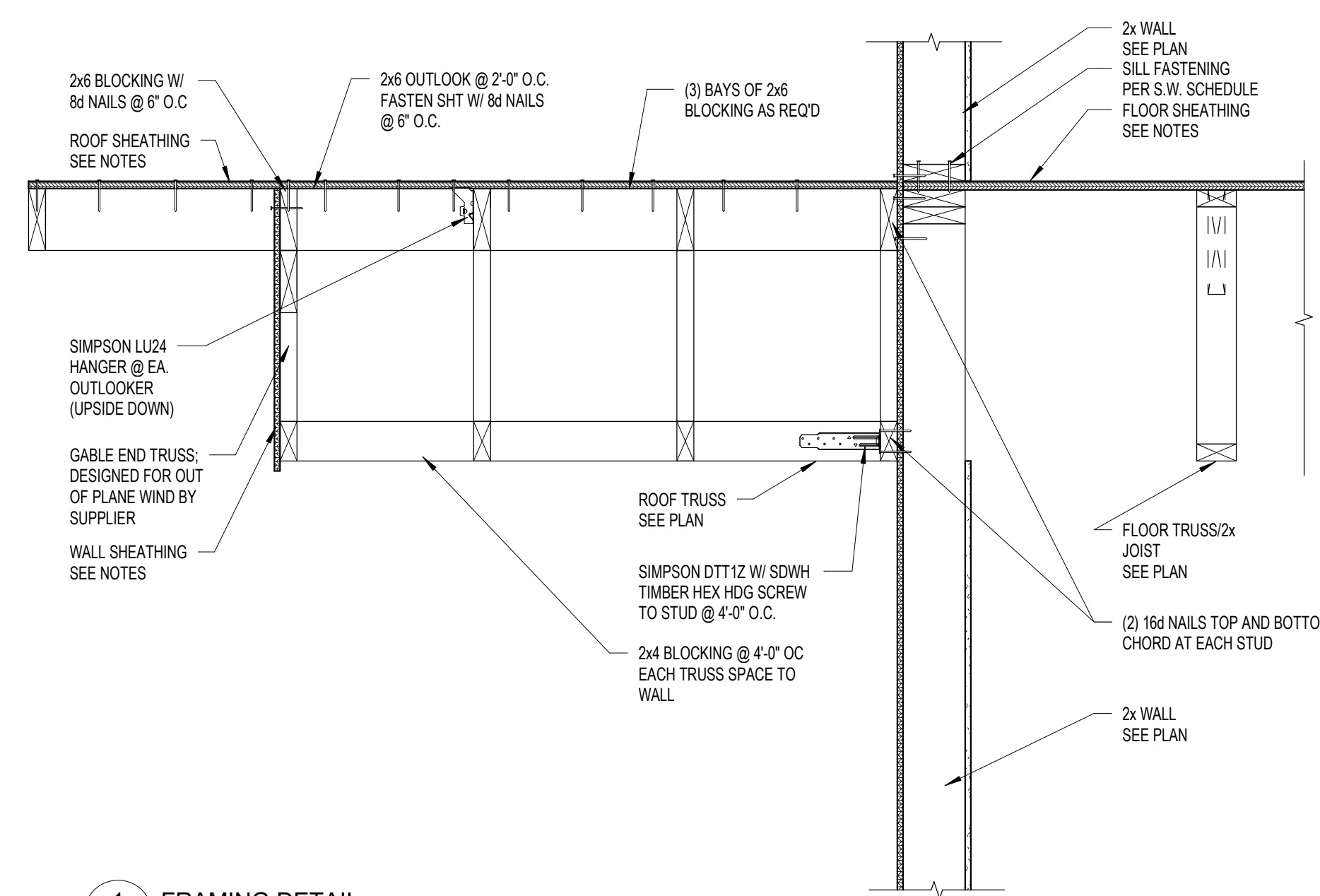
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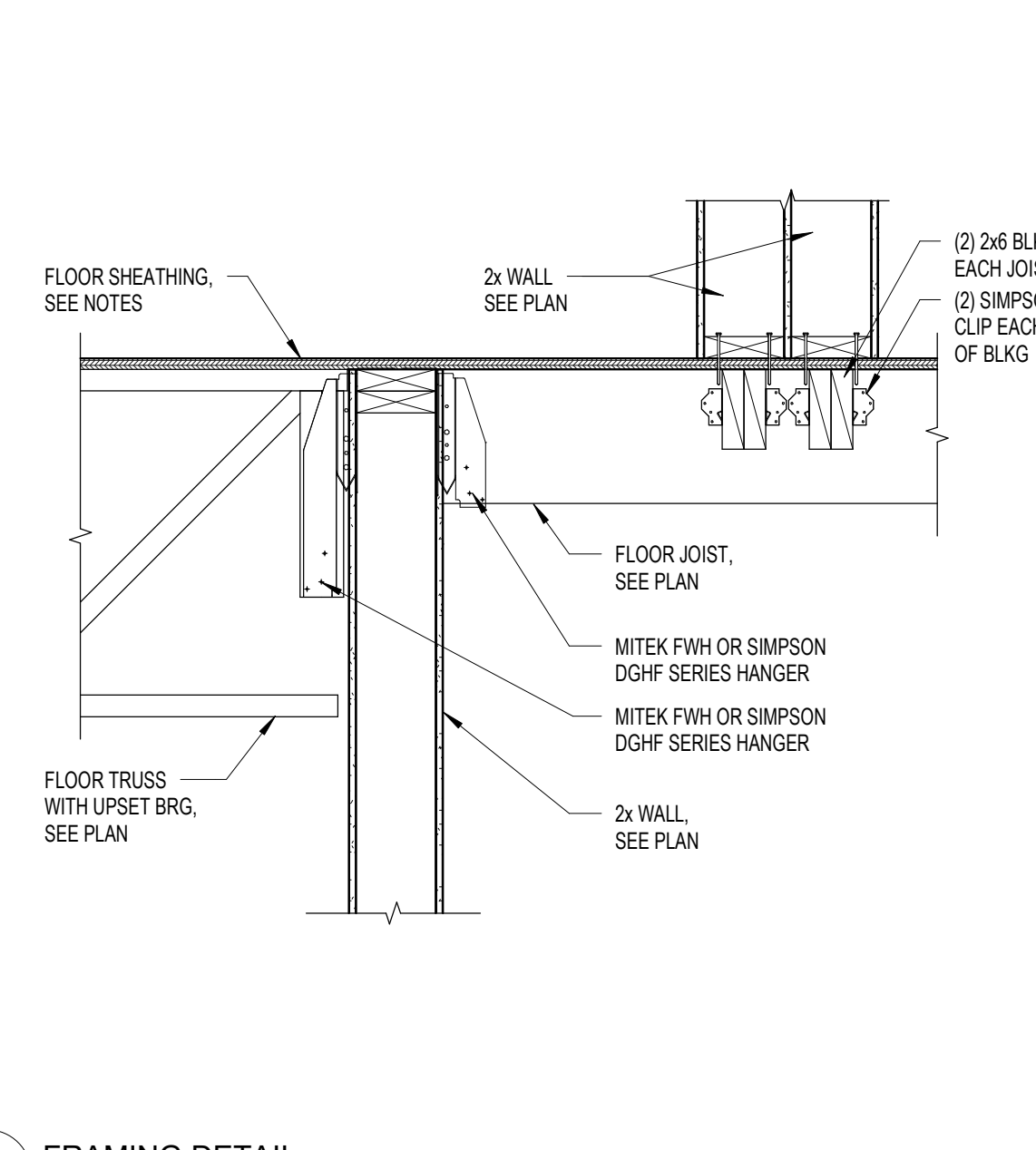
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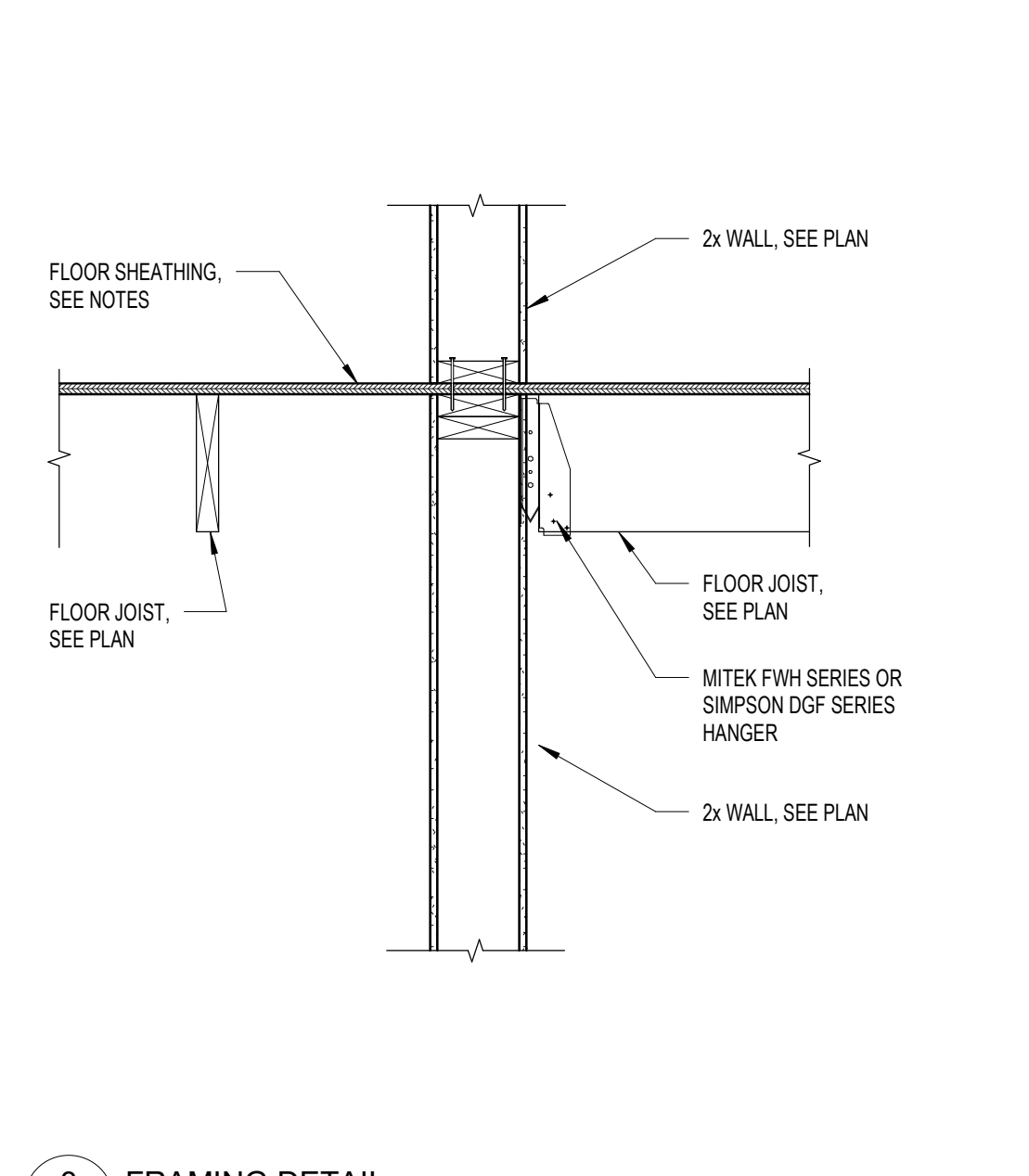
Proj. Engineer: **TJO**
Drawn by: **AH**
Date Issued: **11/08/2024**



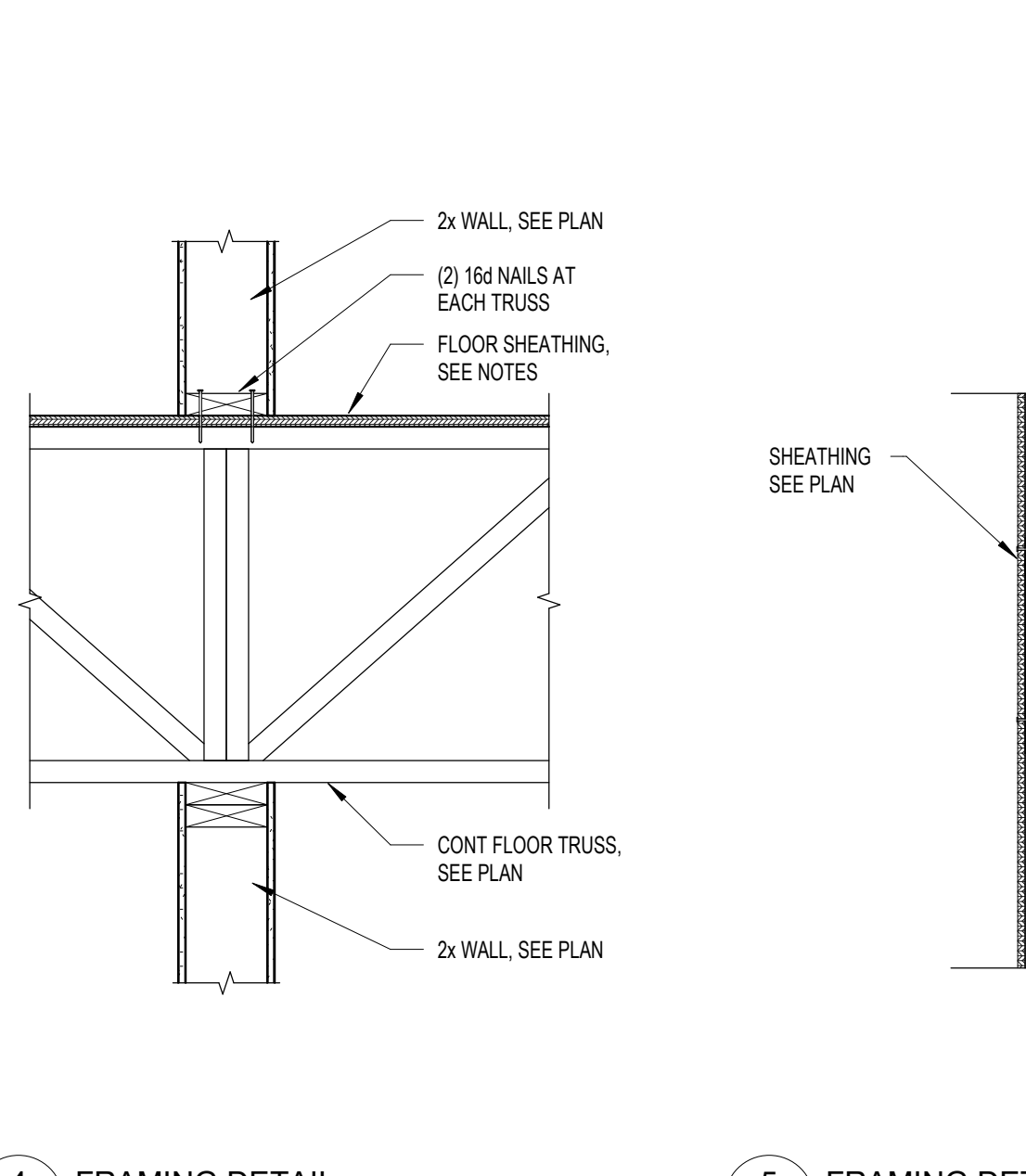
1 FRAMING DETAIL
S403 1" = 1'-0"



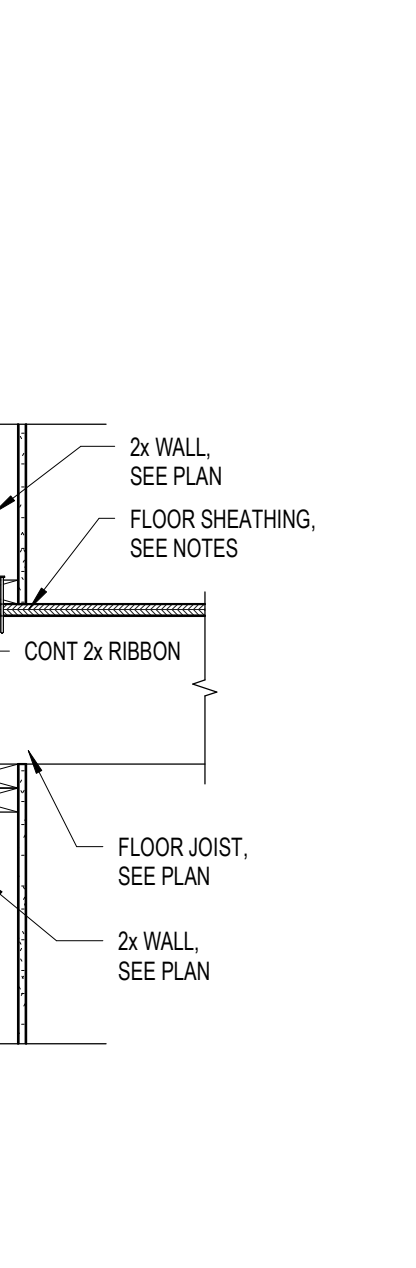
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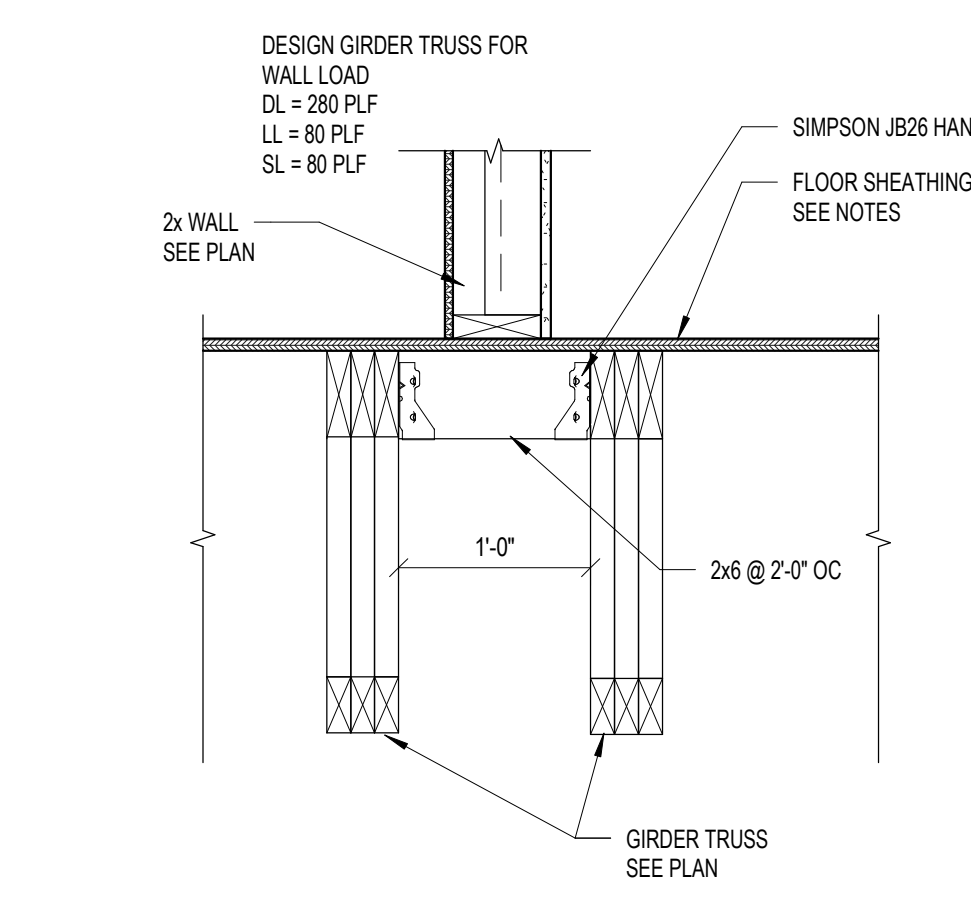
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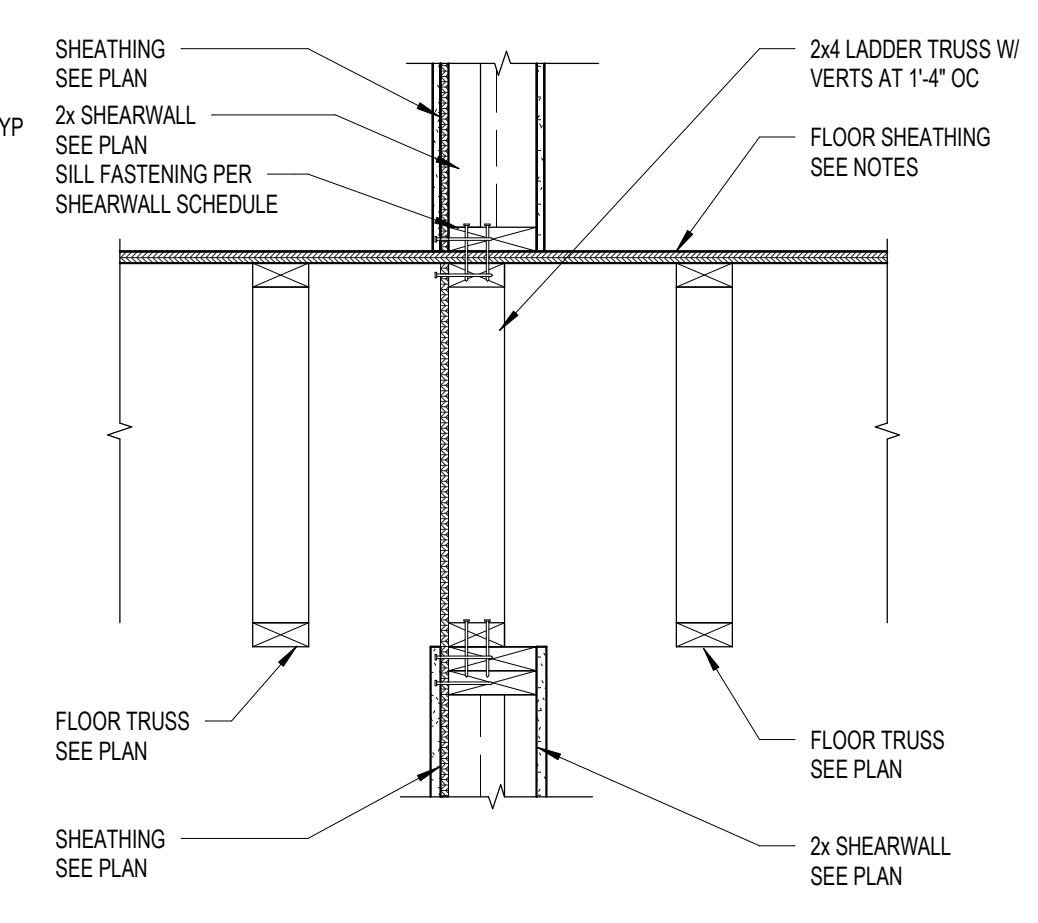
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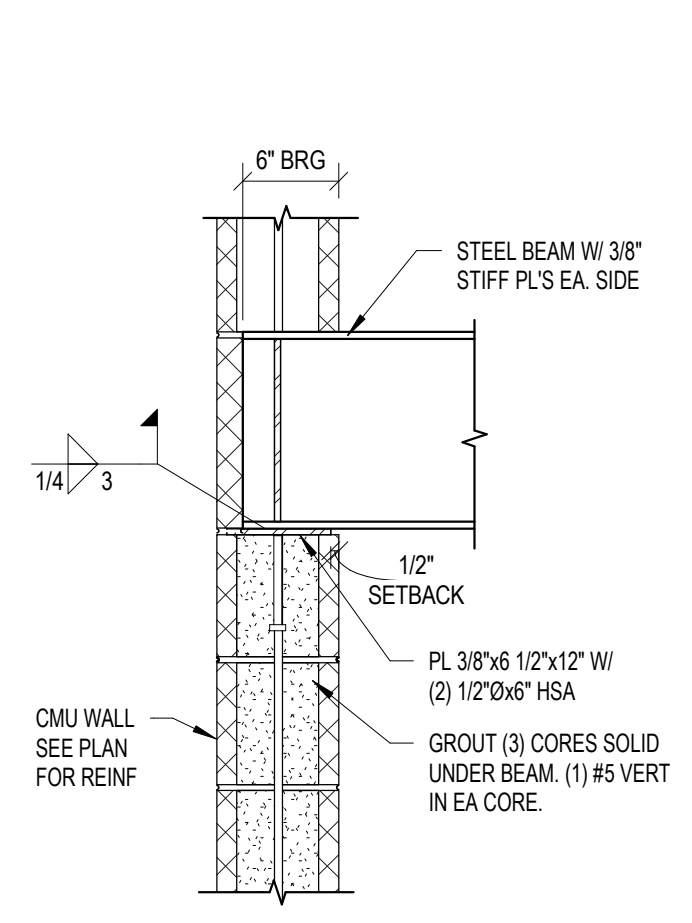
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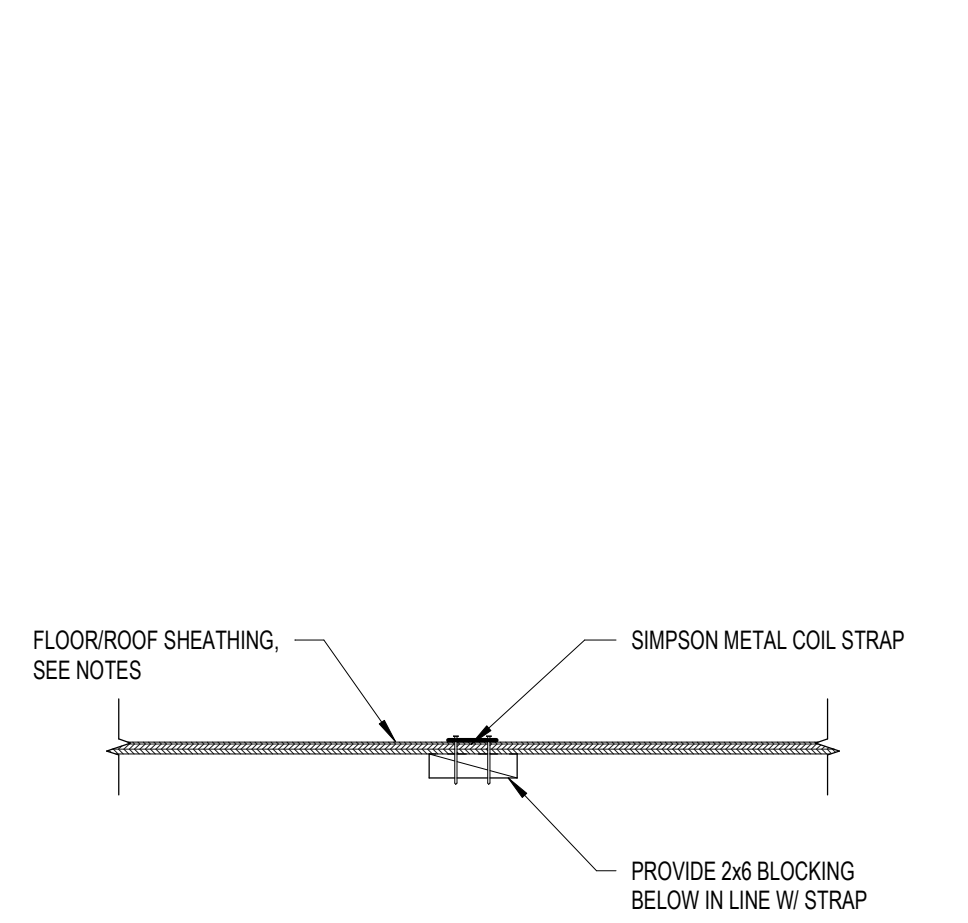
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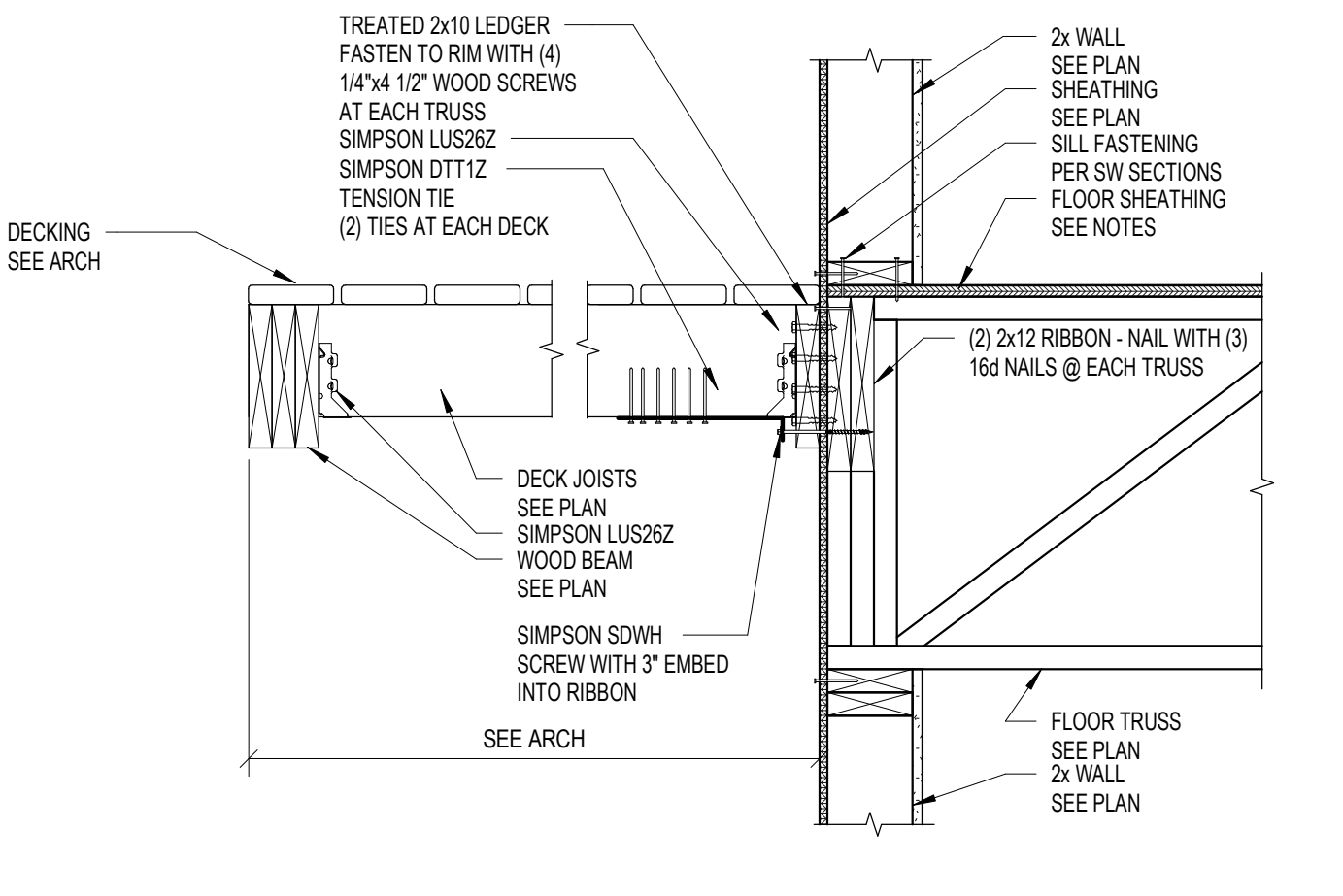
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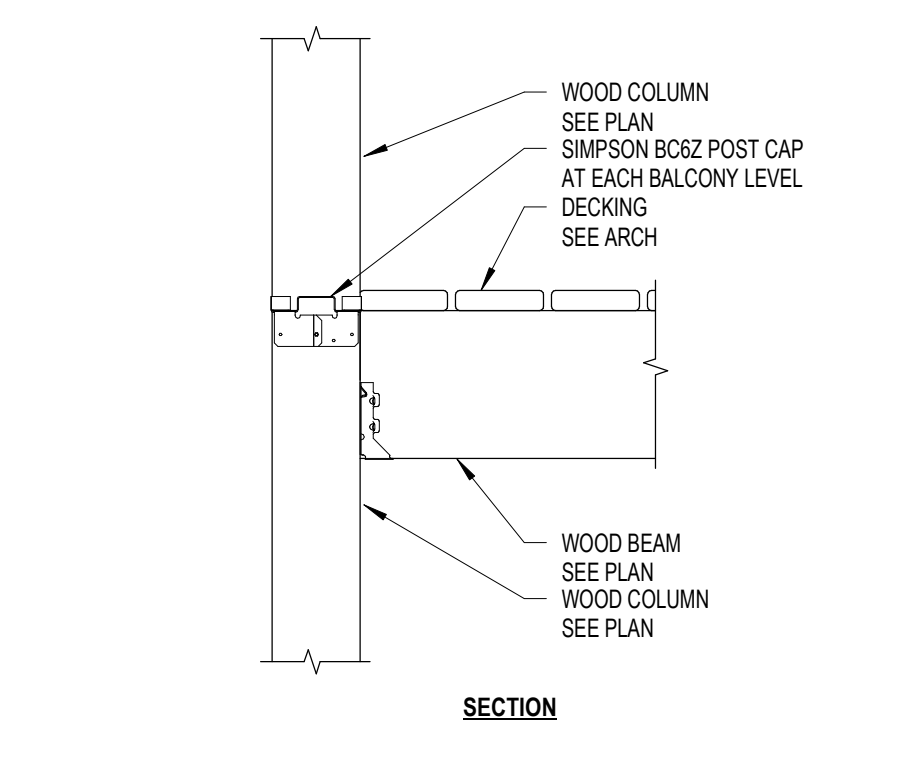
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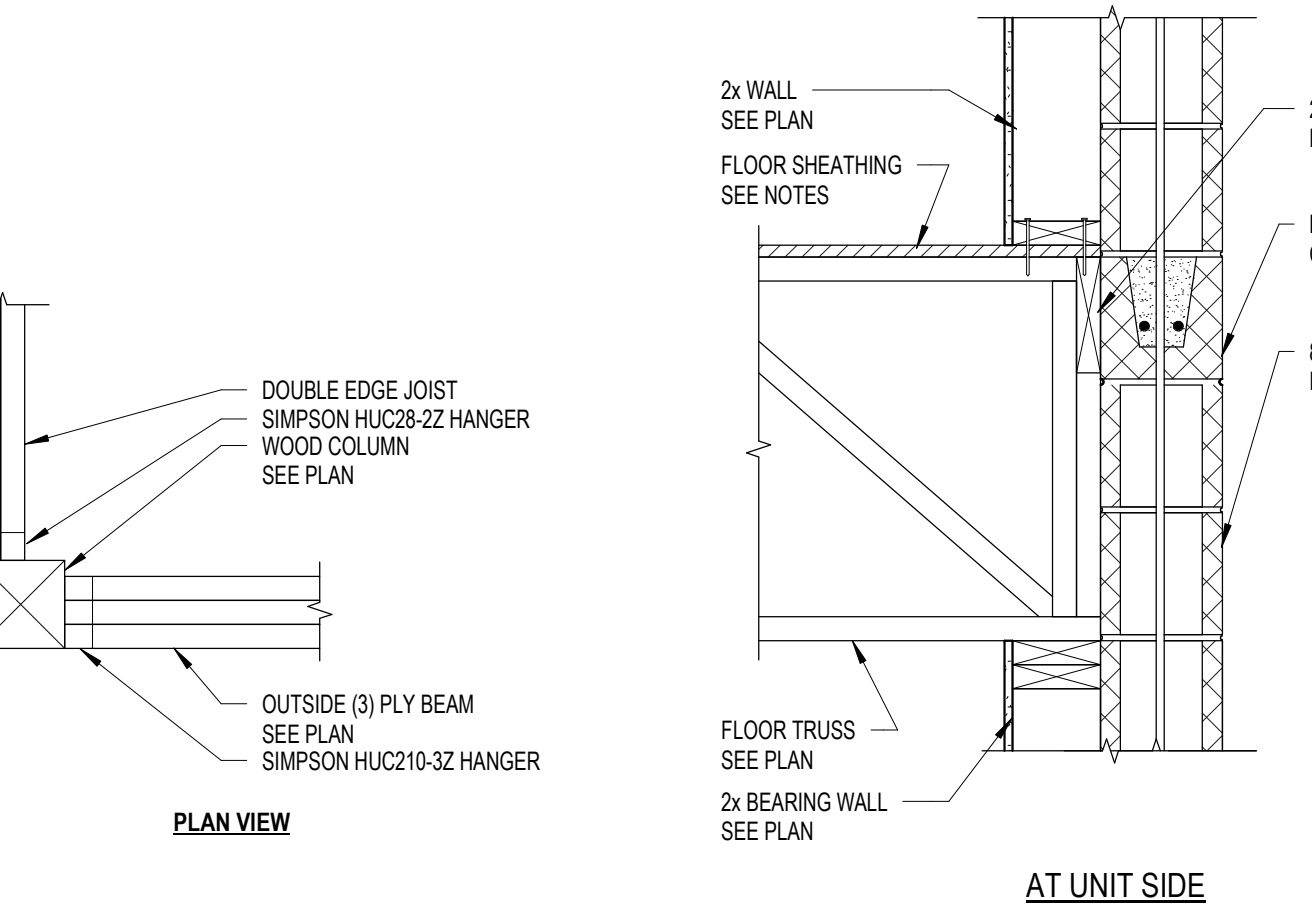
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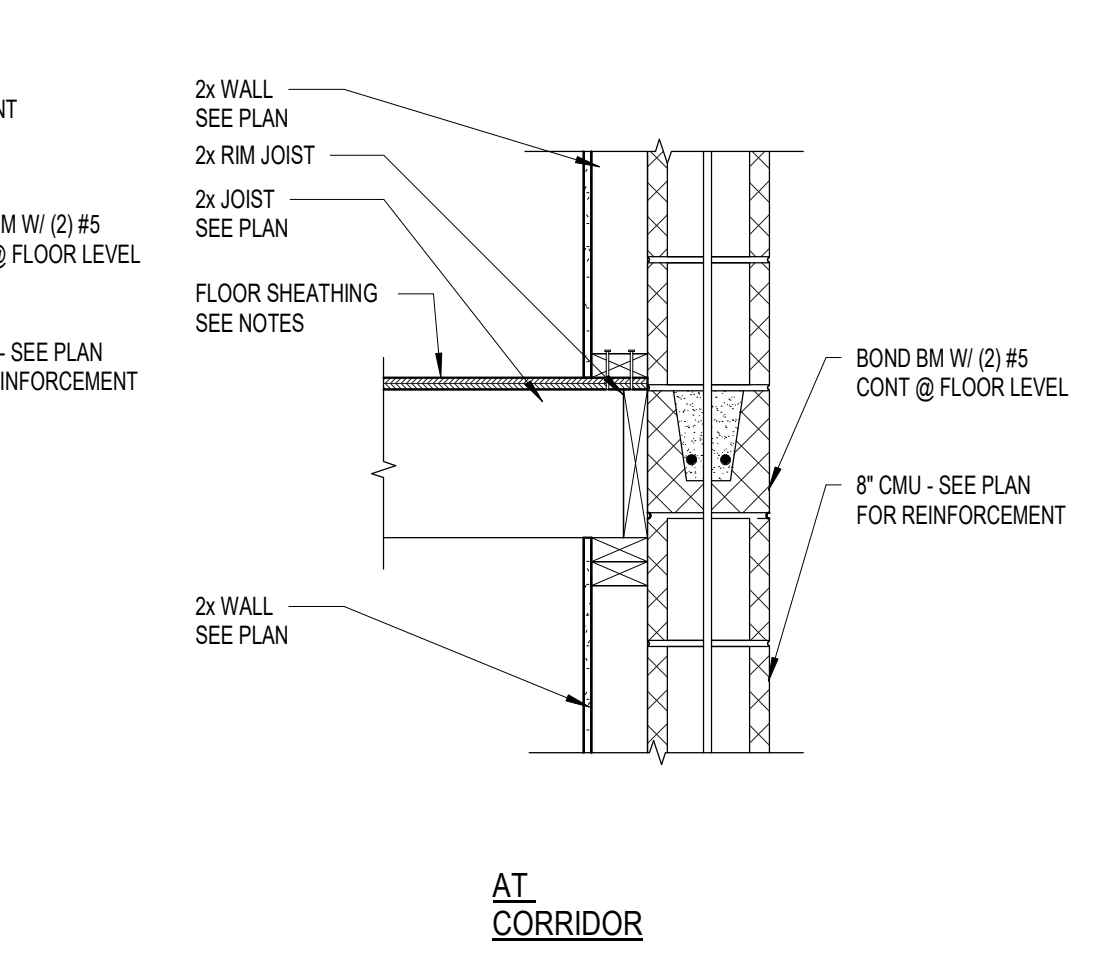
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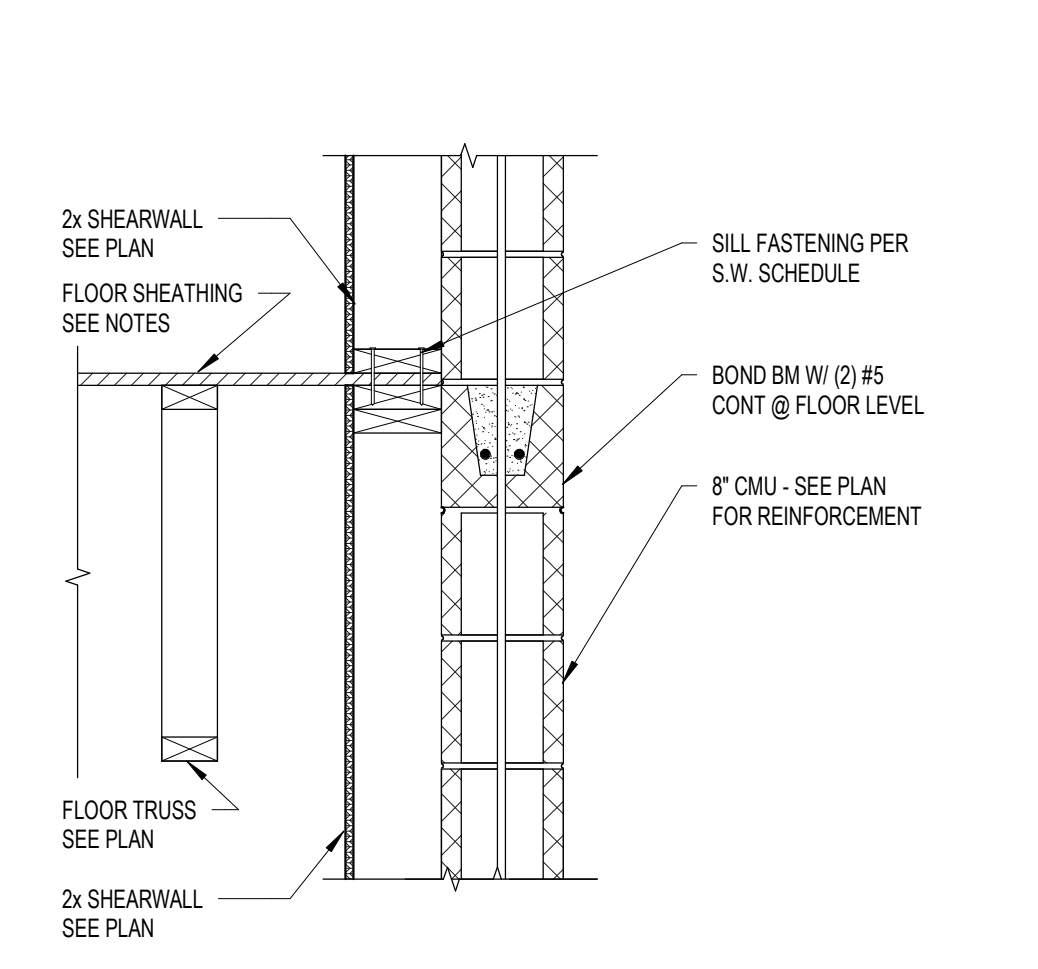
11 FRAMING DETAIL
S403 1" = 1'-0"



12 FRAMING DETAIL
S403 1" = 1'-0"



13 FRAMING DETAIL
S403 1" = 1'-0"



Revisions	DATE	COMMENTS
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Date: **11/08/2024**

SPACE FOR ENGINEER'S SEAL

HUGO APARTMENTS

HUGO, MN

SHEET CONTENTS:
FRAMING DETAILS

SHEET NO.

S403

22124-16



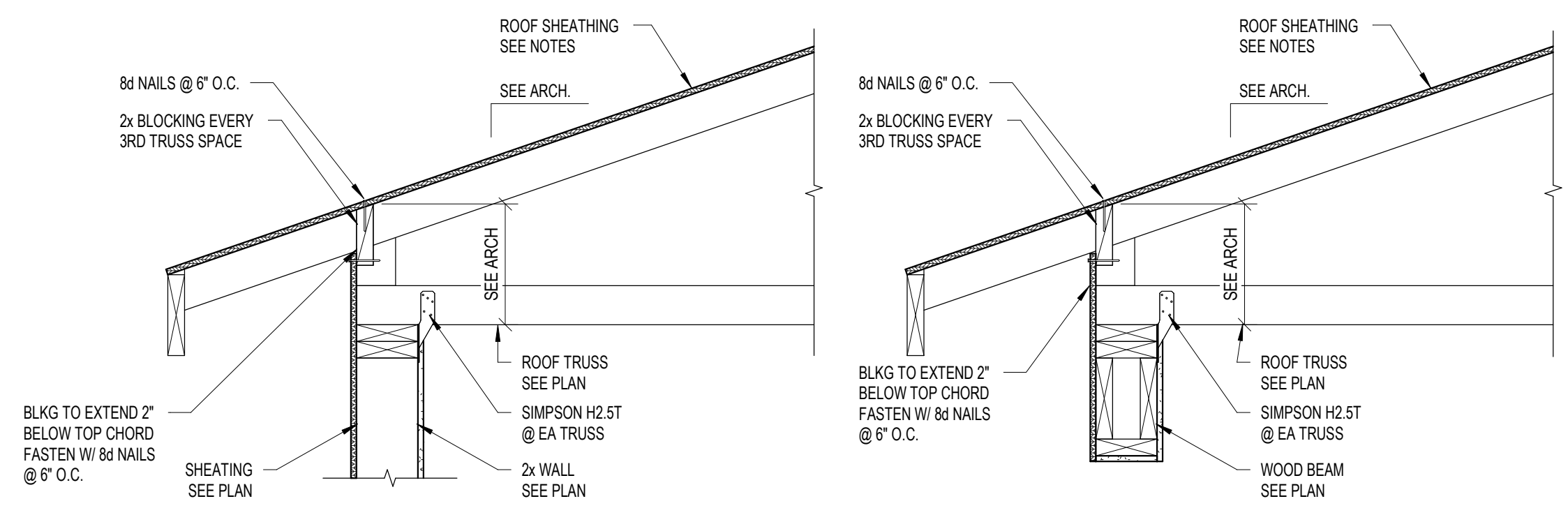
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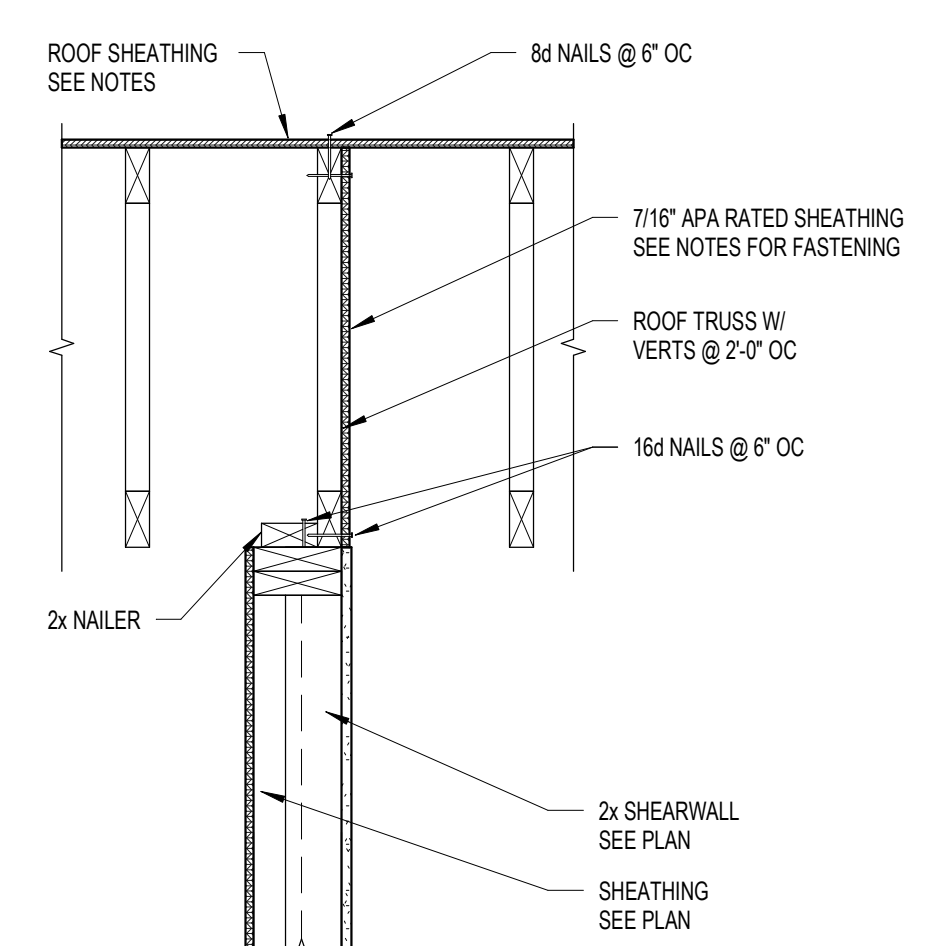
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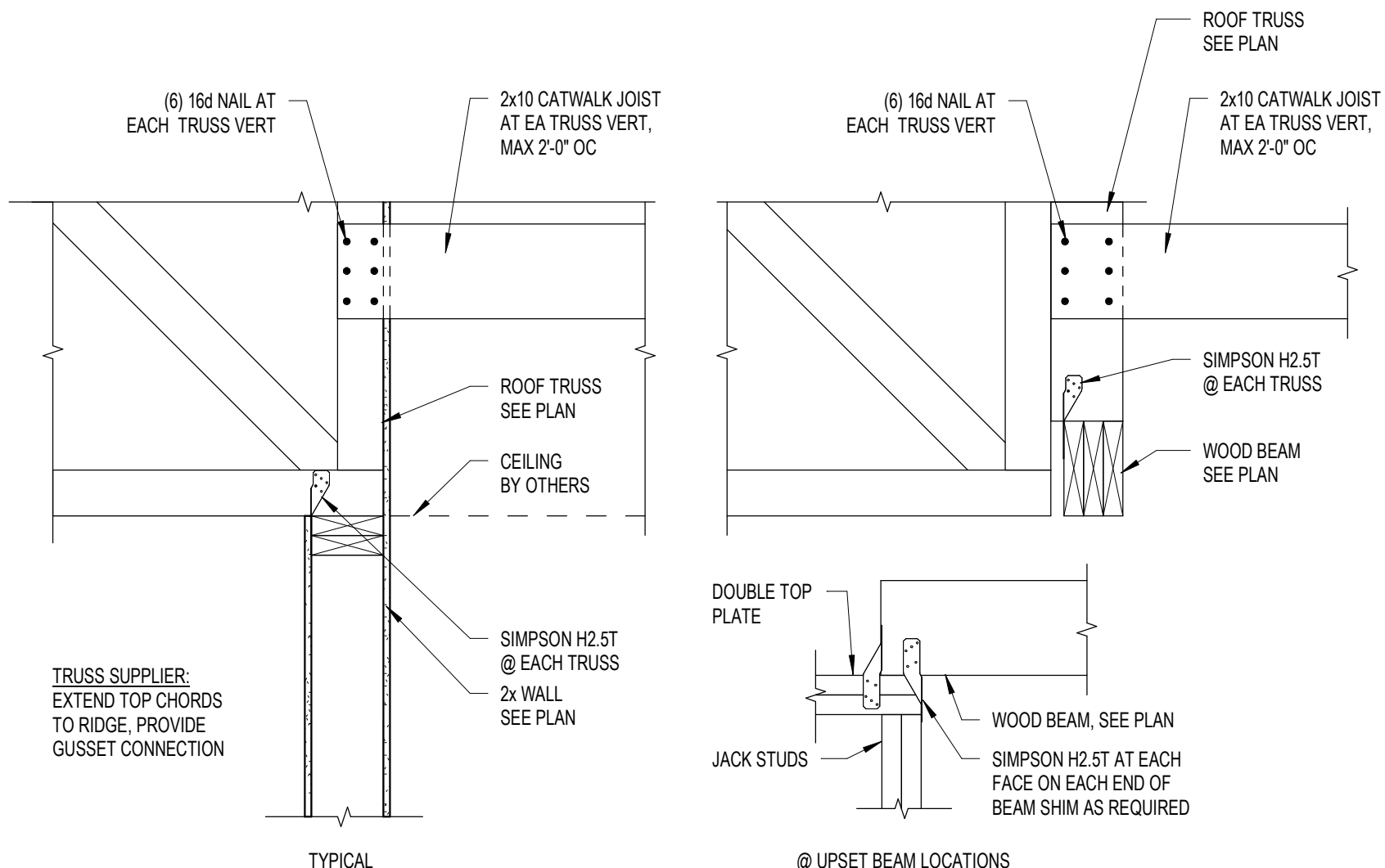
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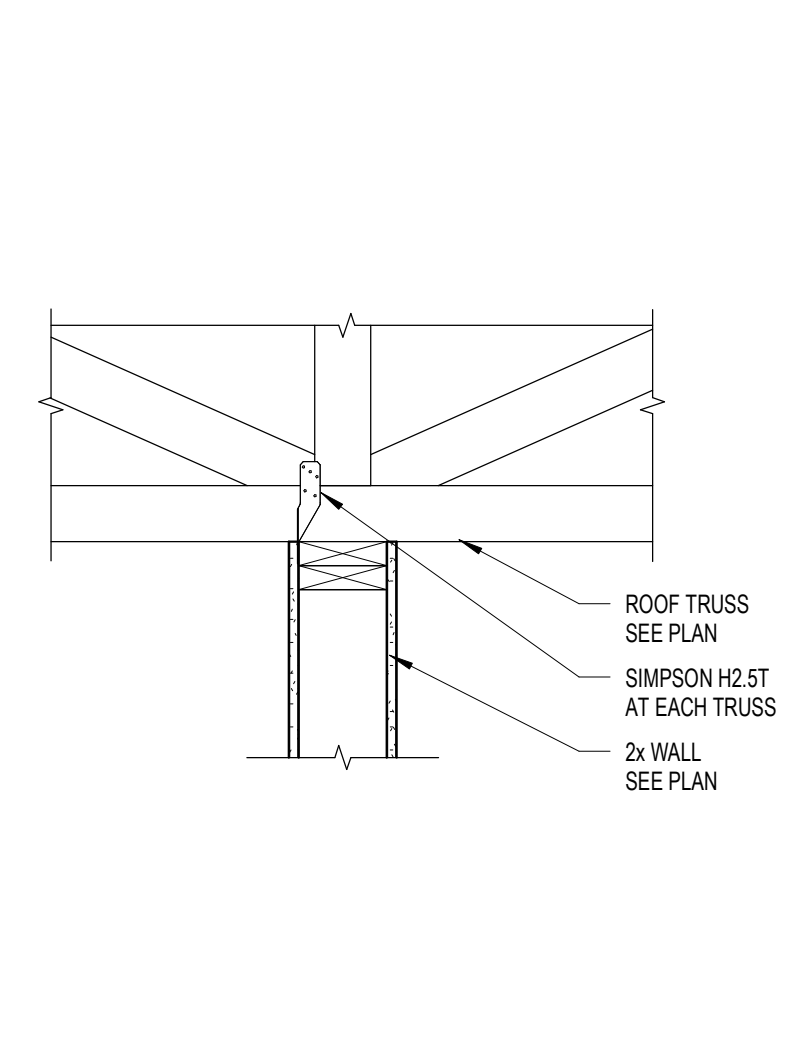
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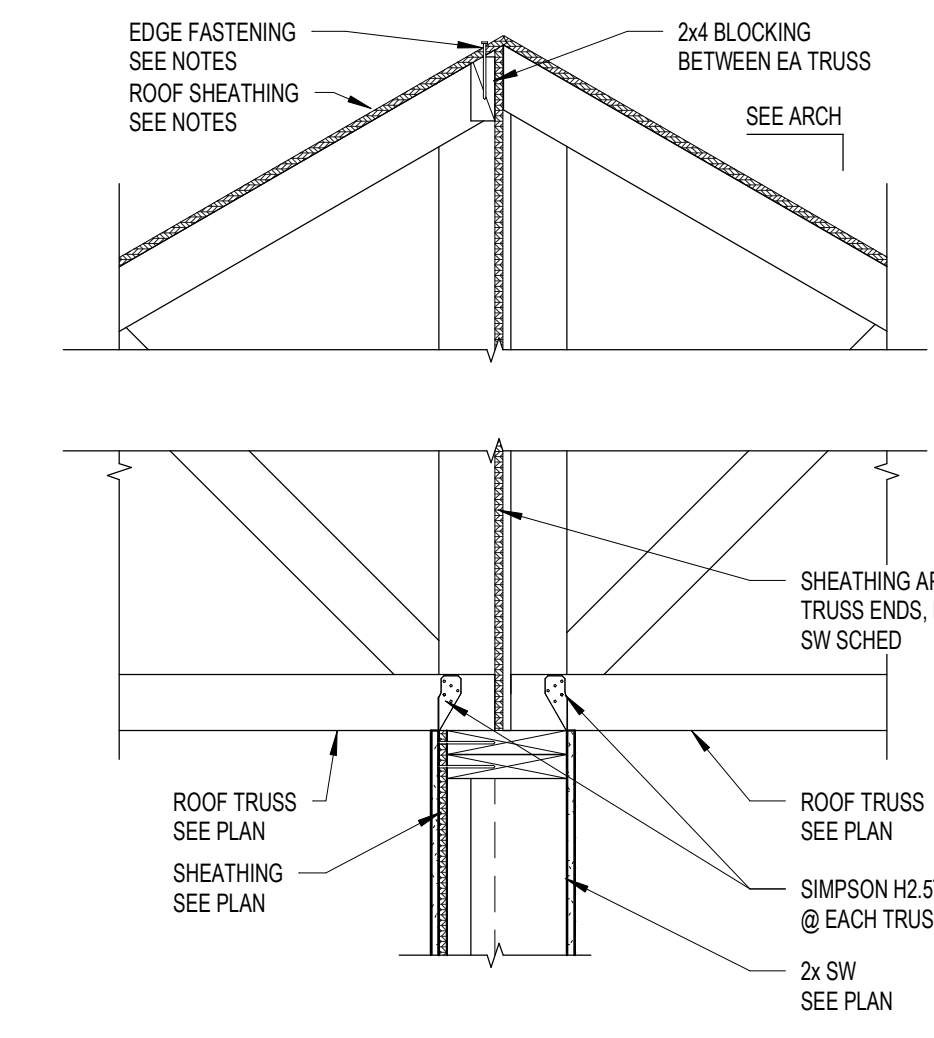
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S421 1" = 1'-0"



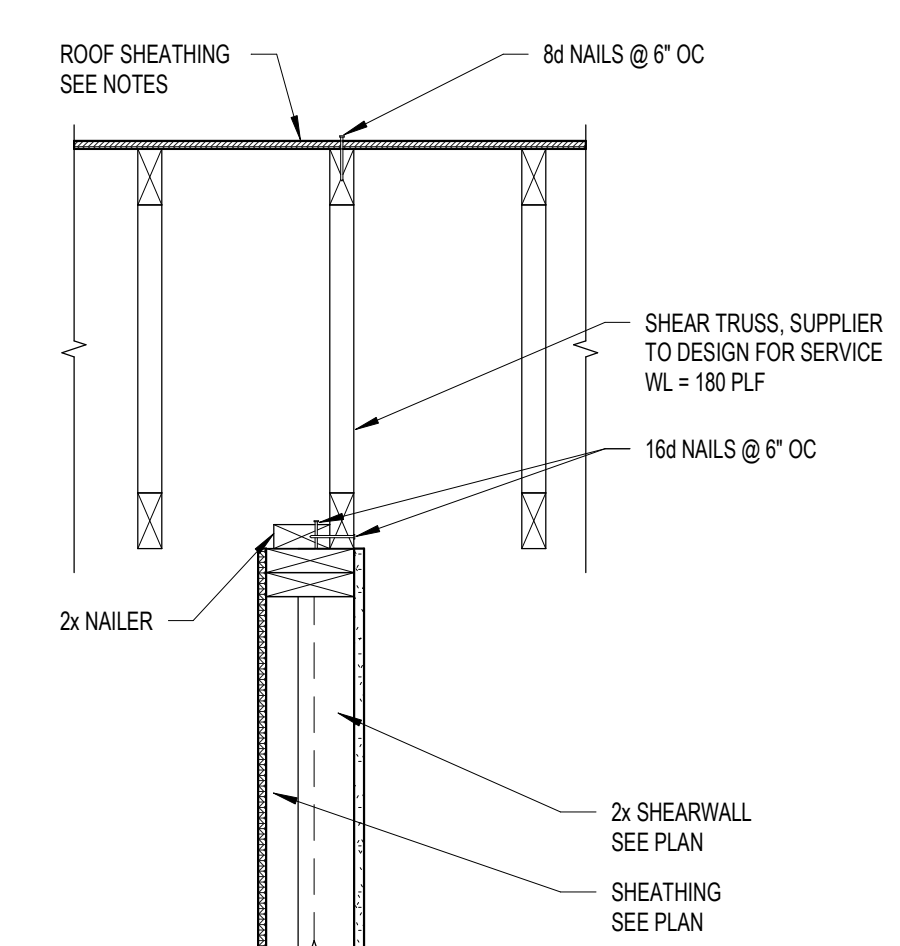
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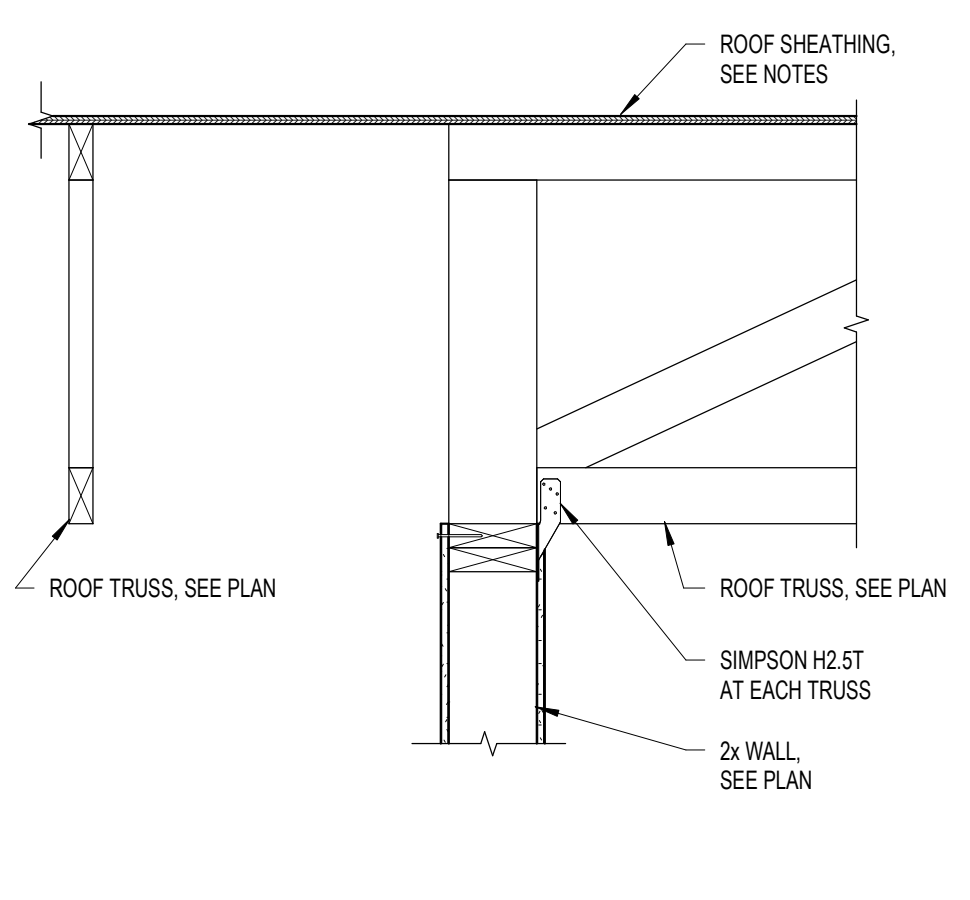
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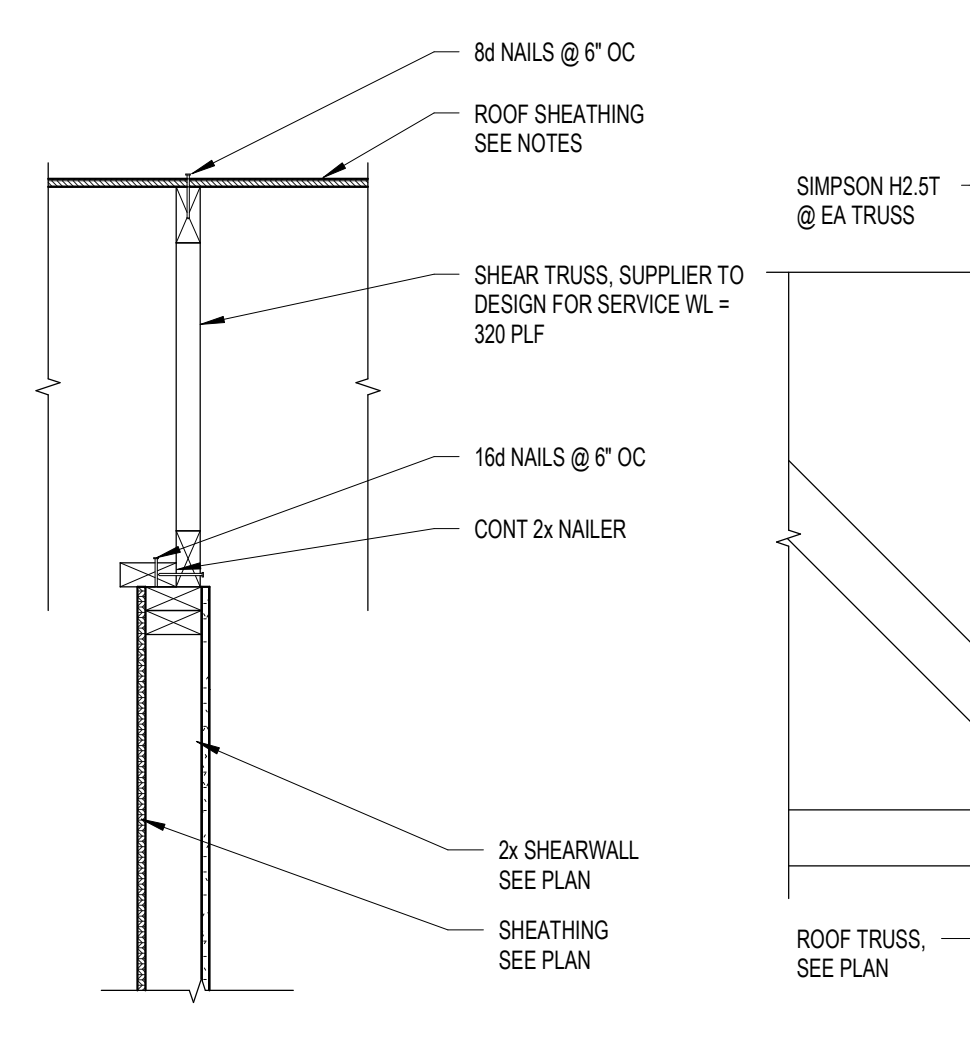
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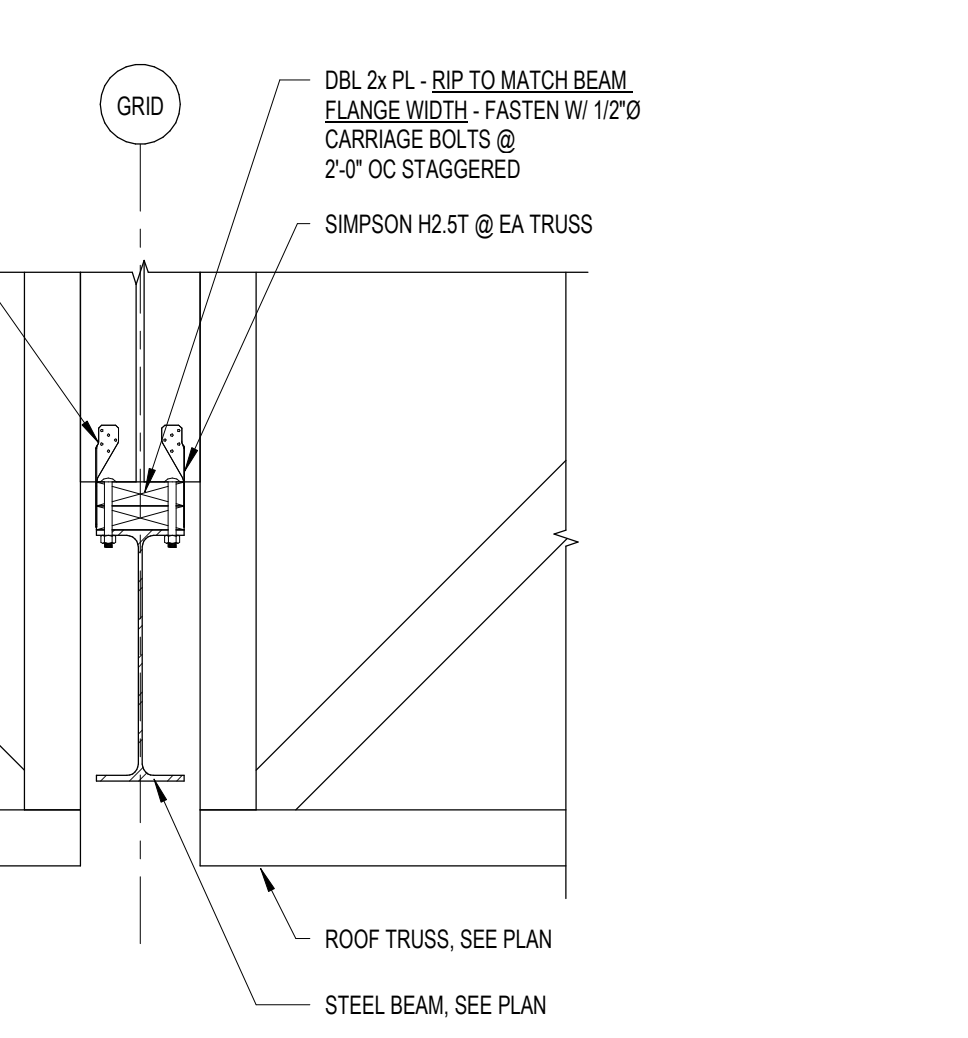
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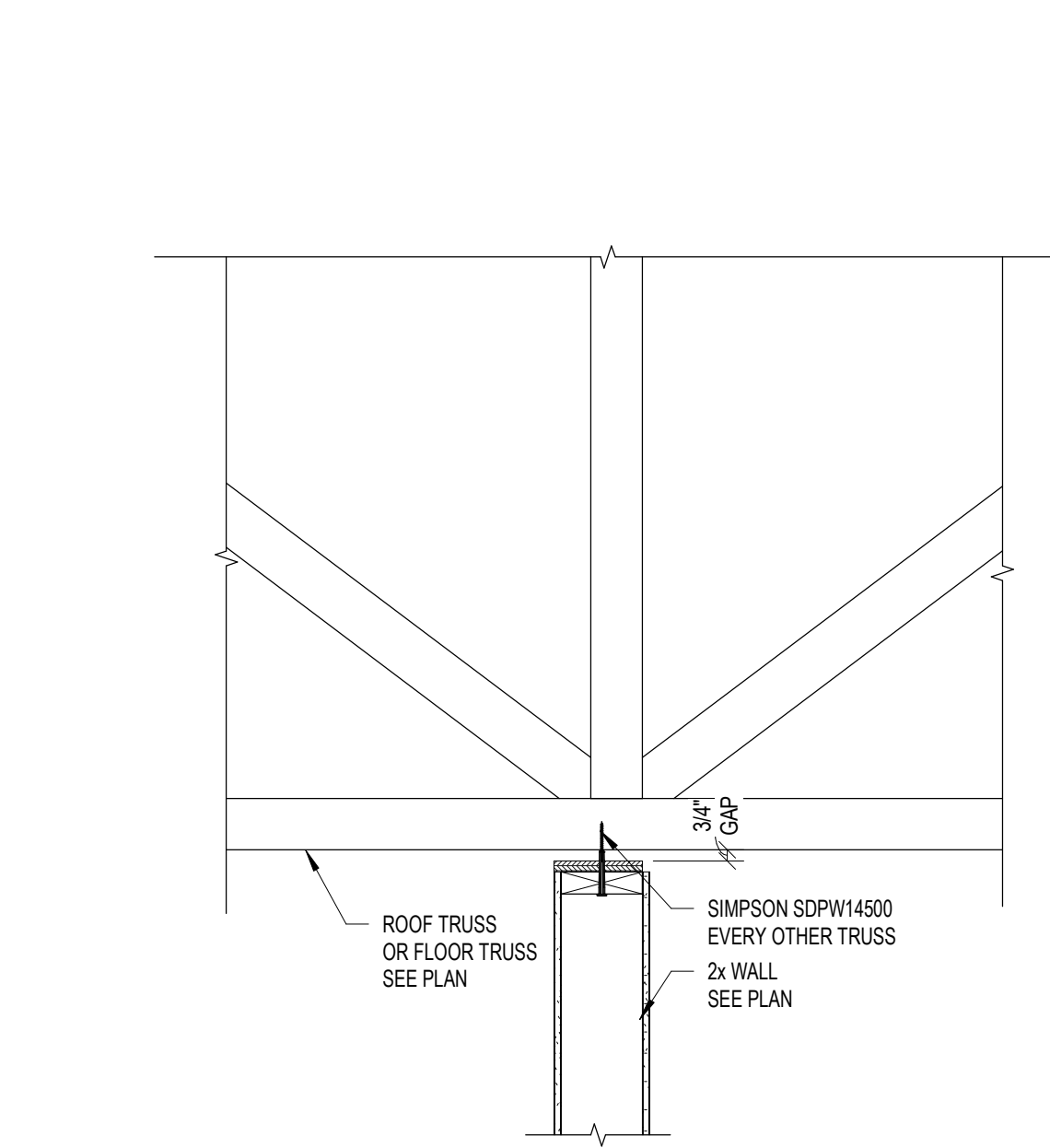
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S421 1" = 1'-0"



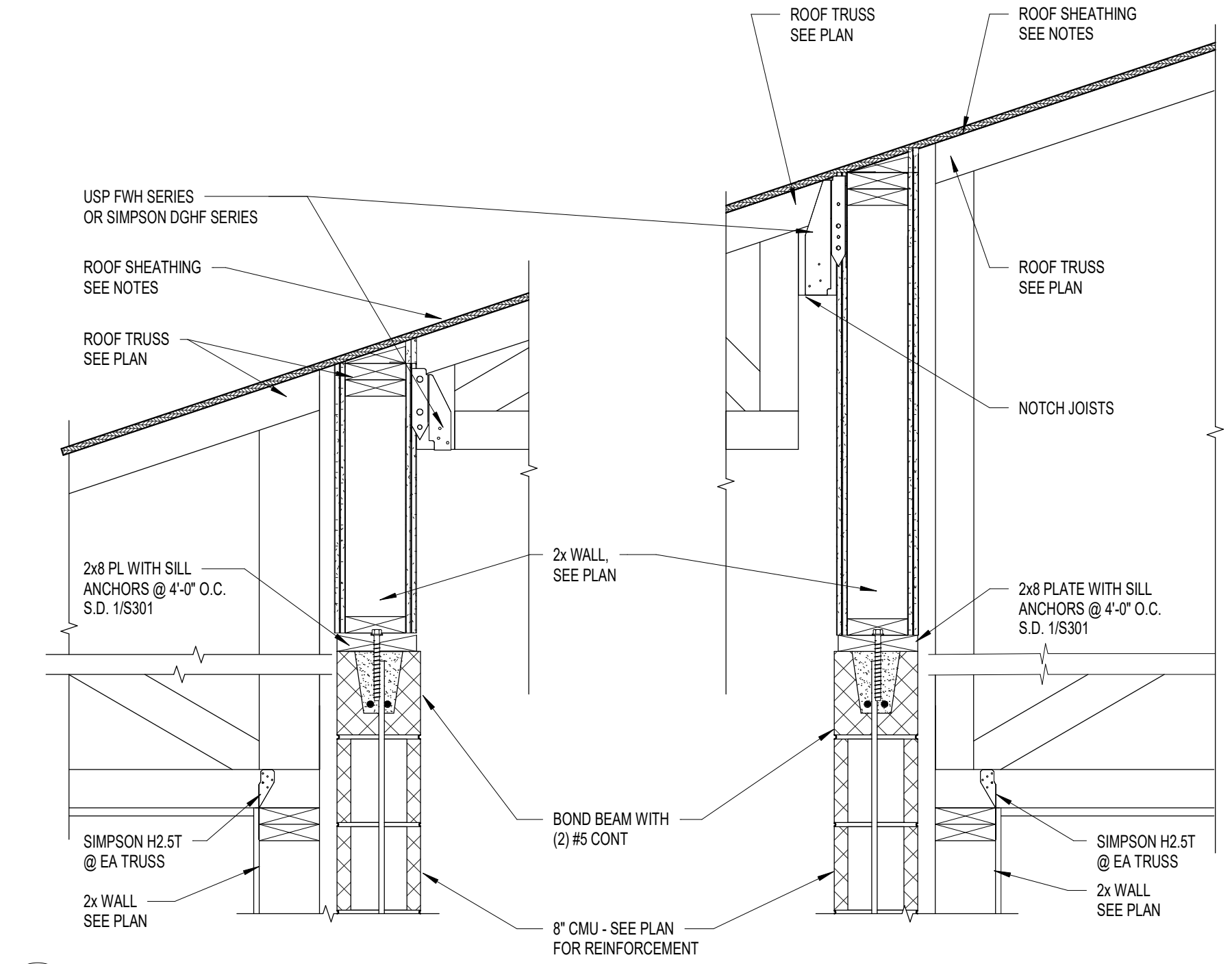
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S421 1" = 1'-0"



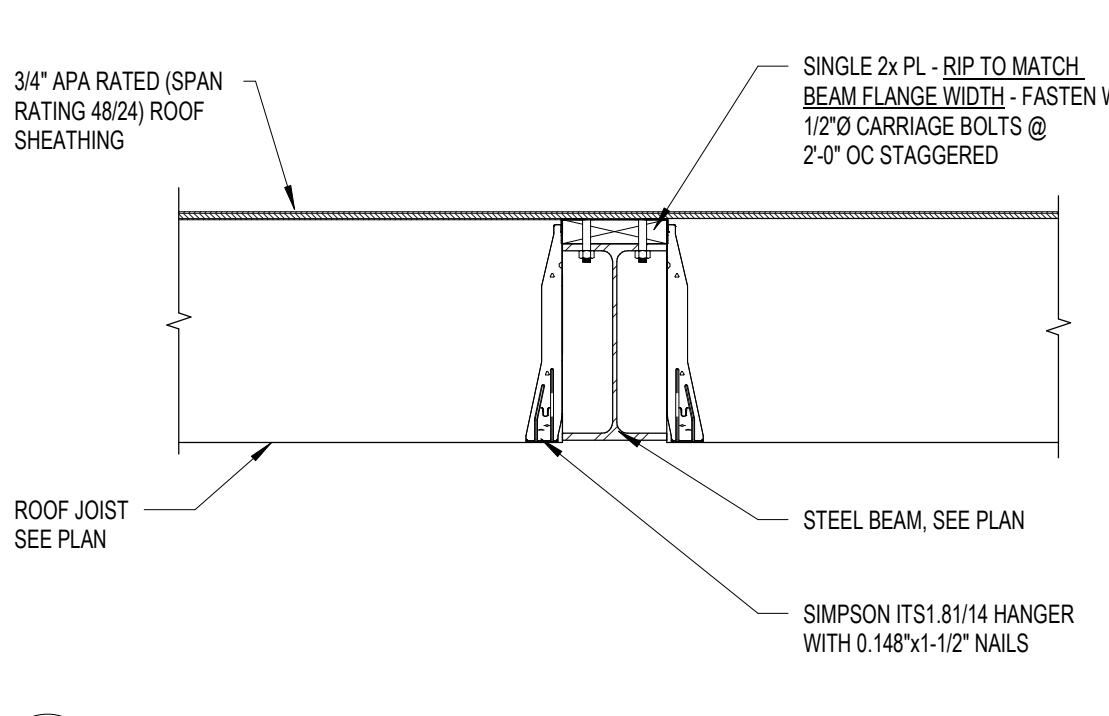
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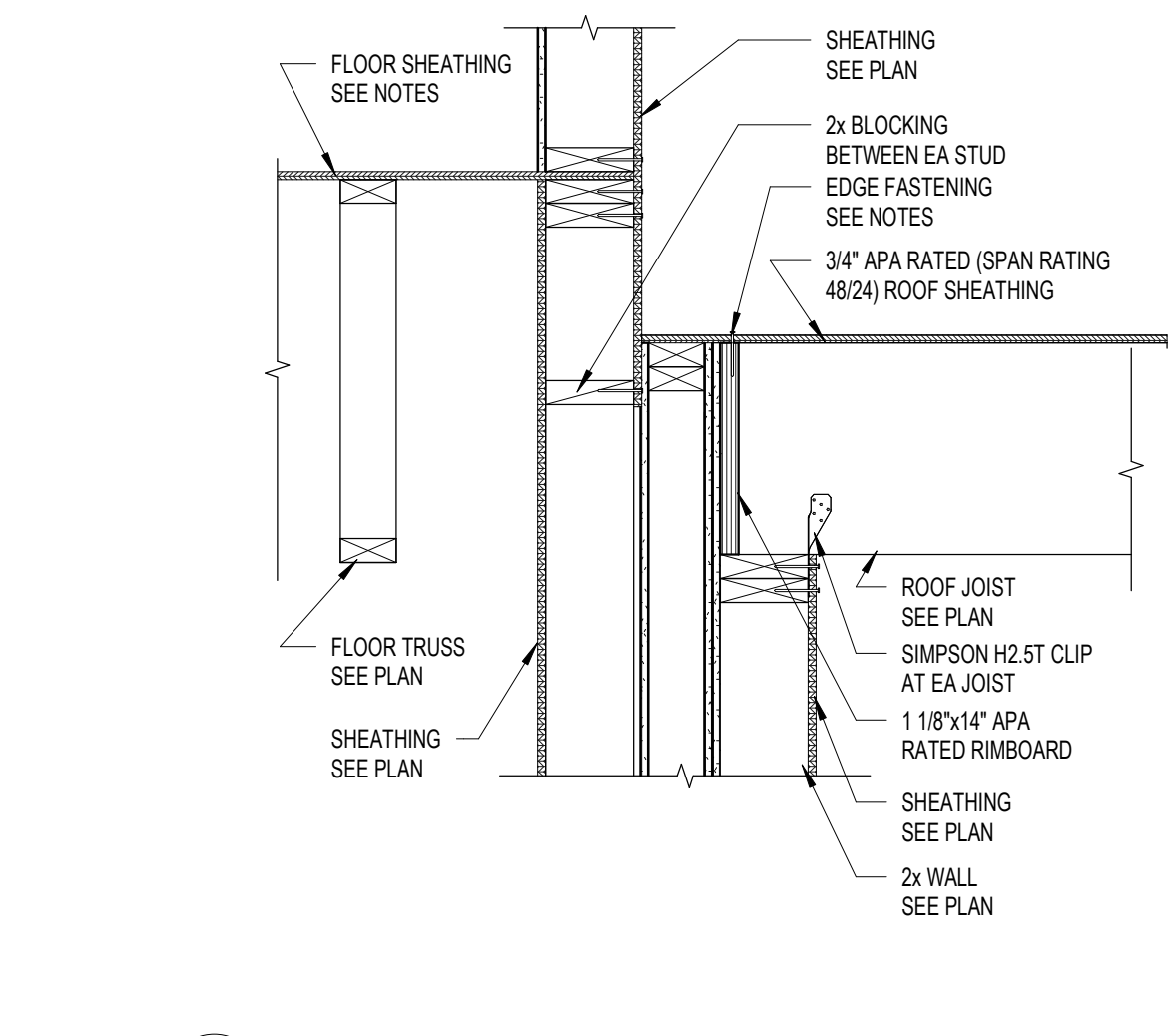
10 FRAMING DETAIL
S421 1" = 1'-0"



11 FRAMING DETAIL
S421 1" = 1'-0"



12 FRAMING DETAIL
S421 1" = 1'-0"



13 FRAMING DETAIL
S421 1" = 1'-0"

Revisions	DATE	COMMENTS
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Date: **11/08/2024**
License #: **56844**

HUGO APARTMENTS

HUGO, MN

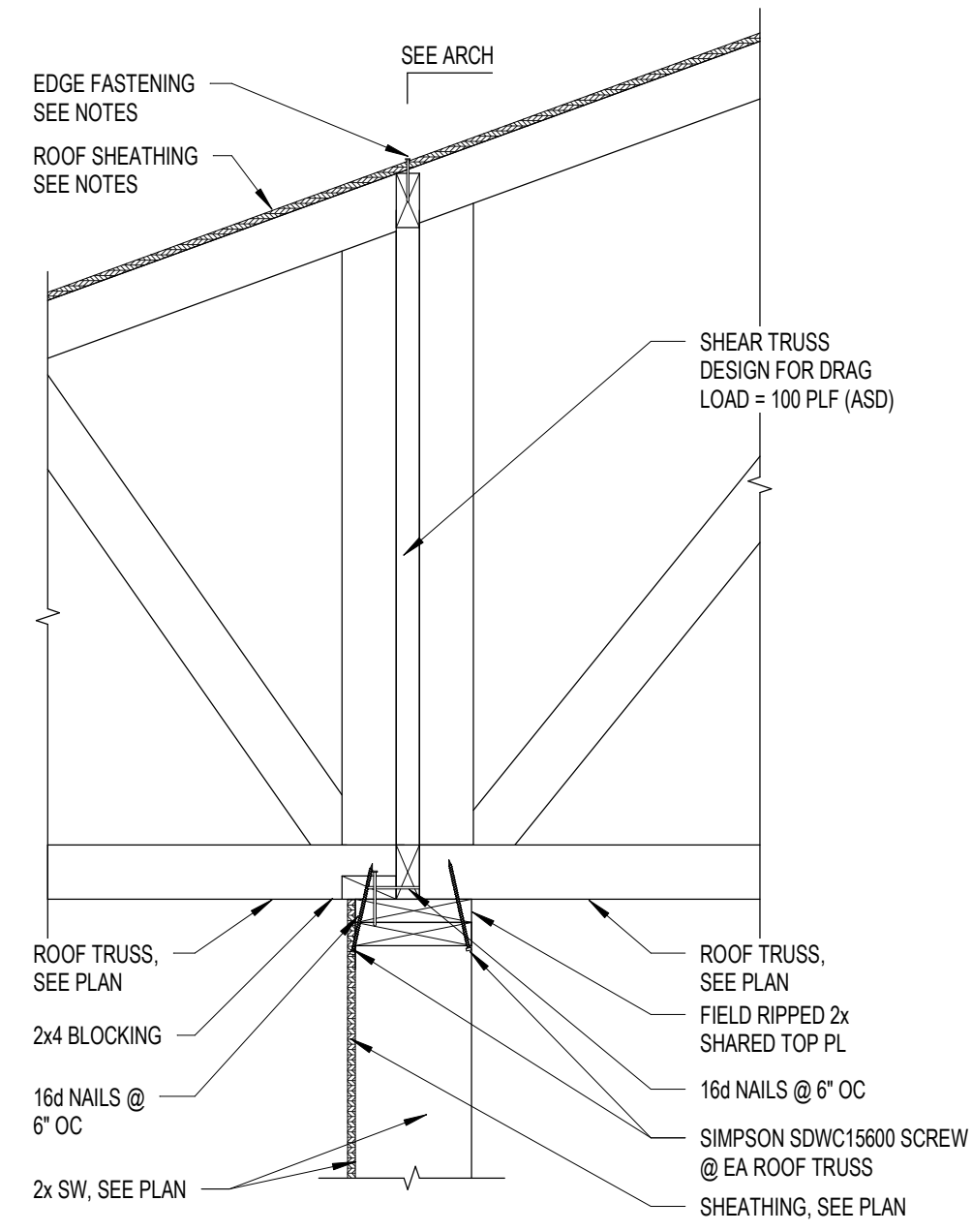
SHEET CONTENTS:
FRAMING DETAILS

SHEET NO.

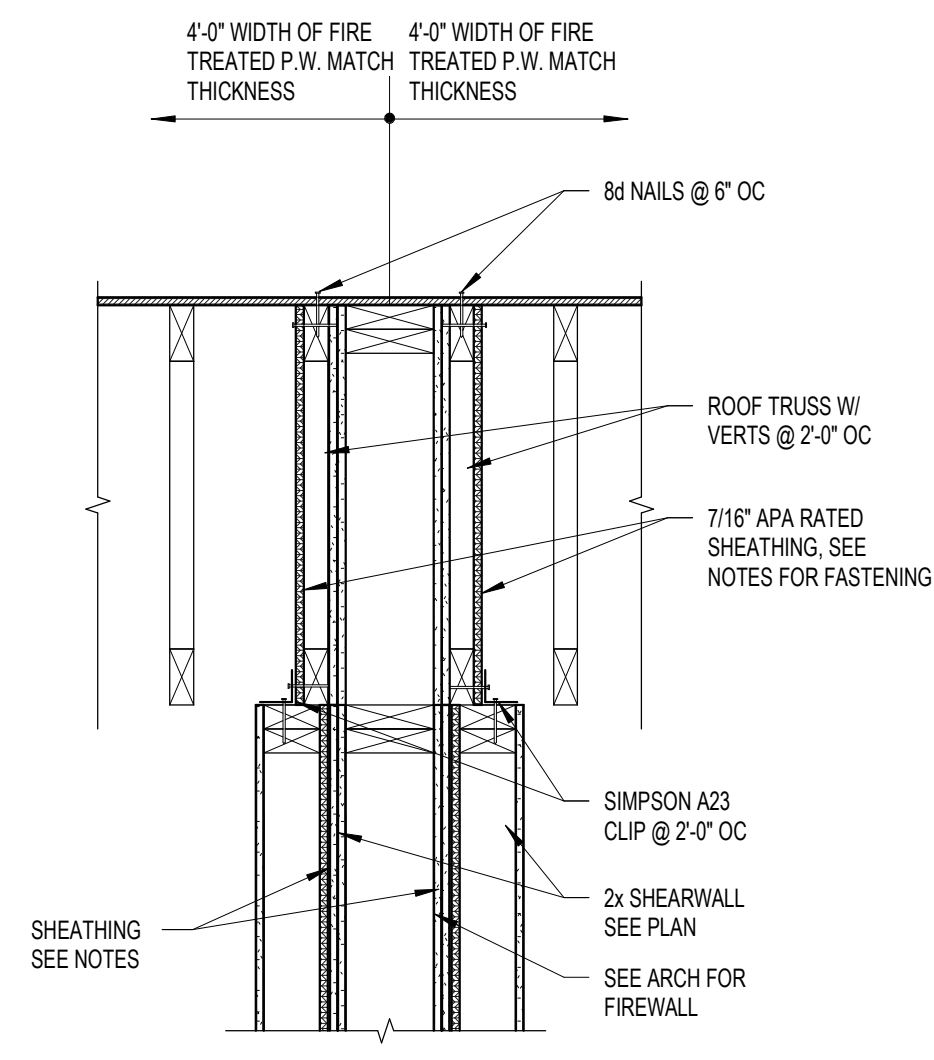
S421

22124-16

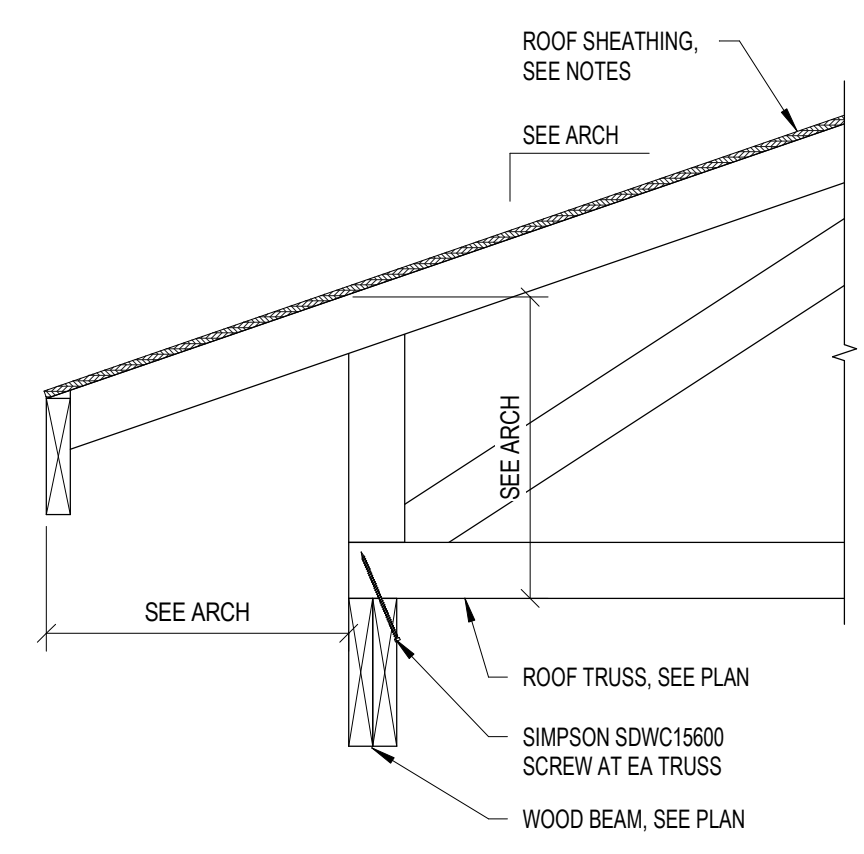
11/18/2024 9:06:18 AM



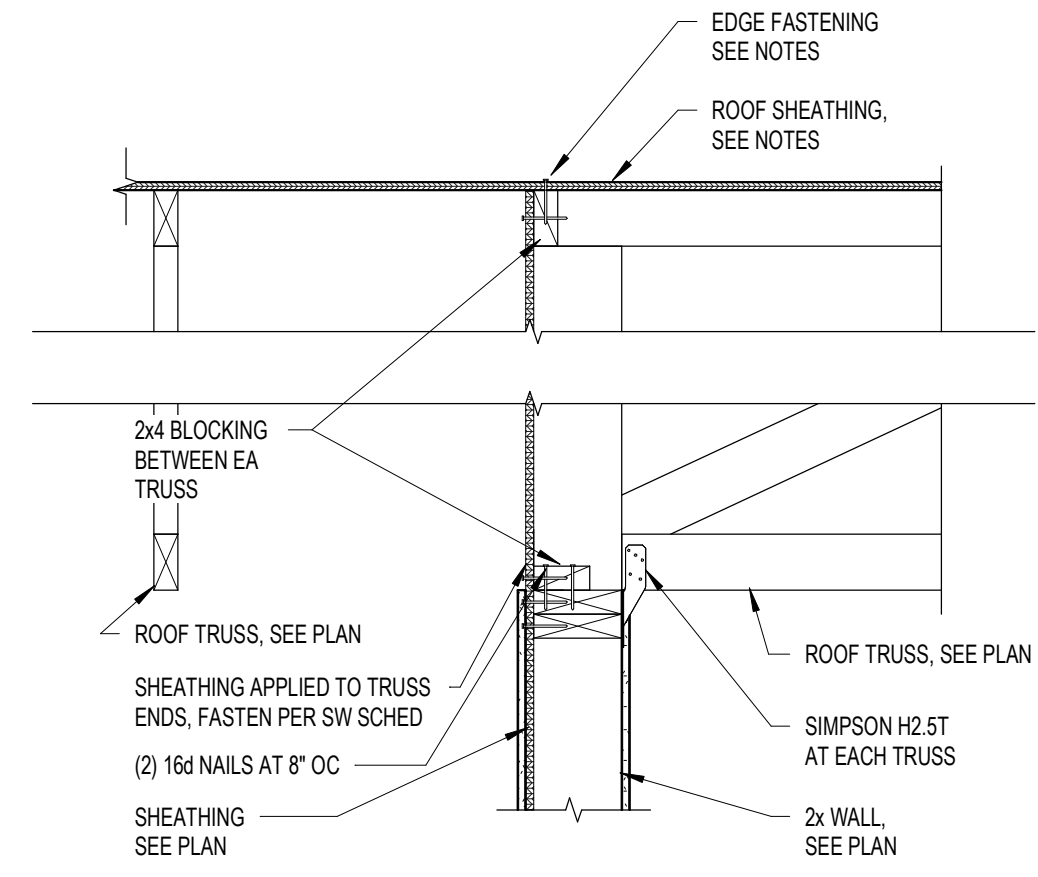
1 FRAMING DETAIL
S422 1" = 1'-0"



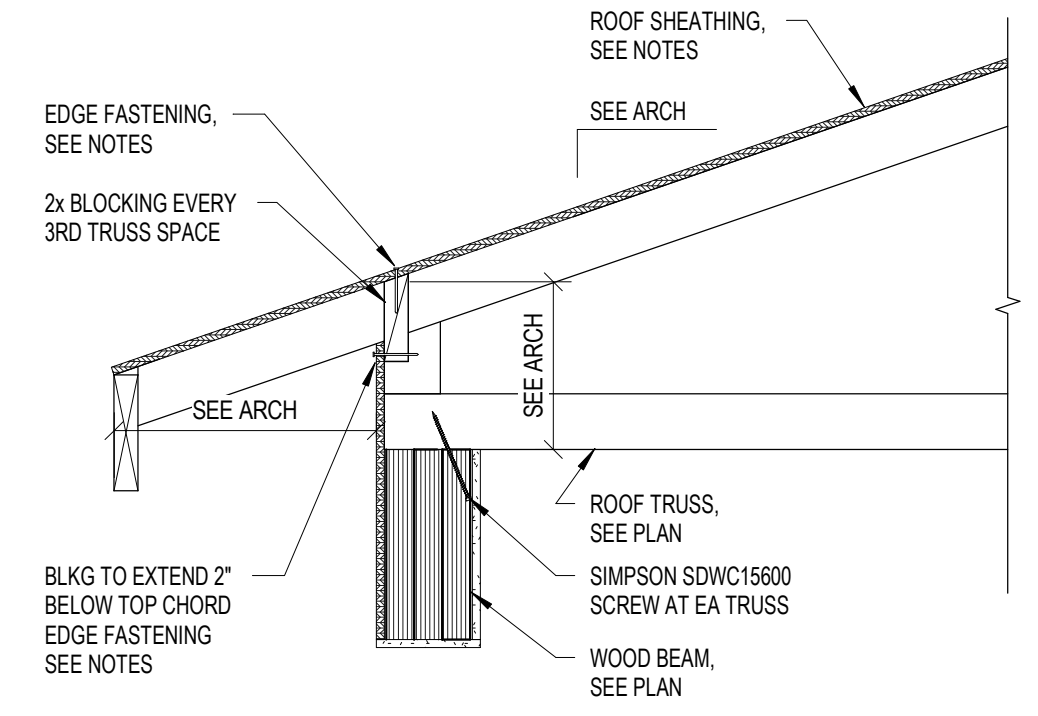
2 FRAMING DETAIL
S422 1" = 1'-0"



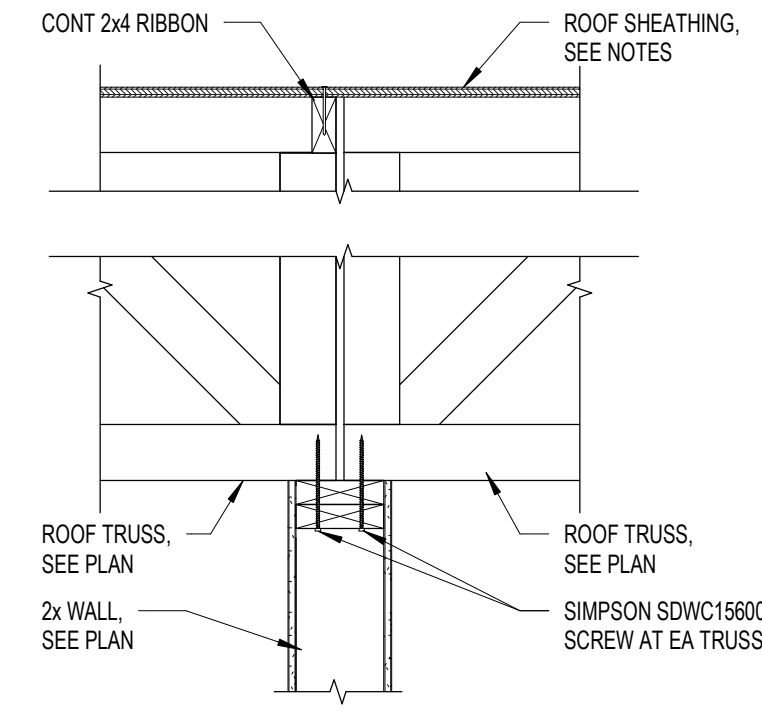
3 FRAMING DETAIL
S422 1" = 1'-0"



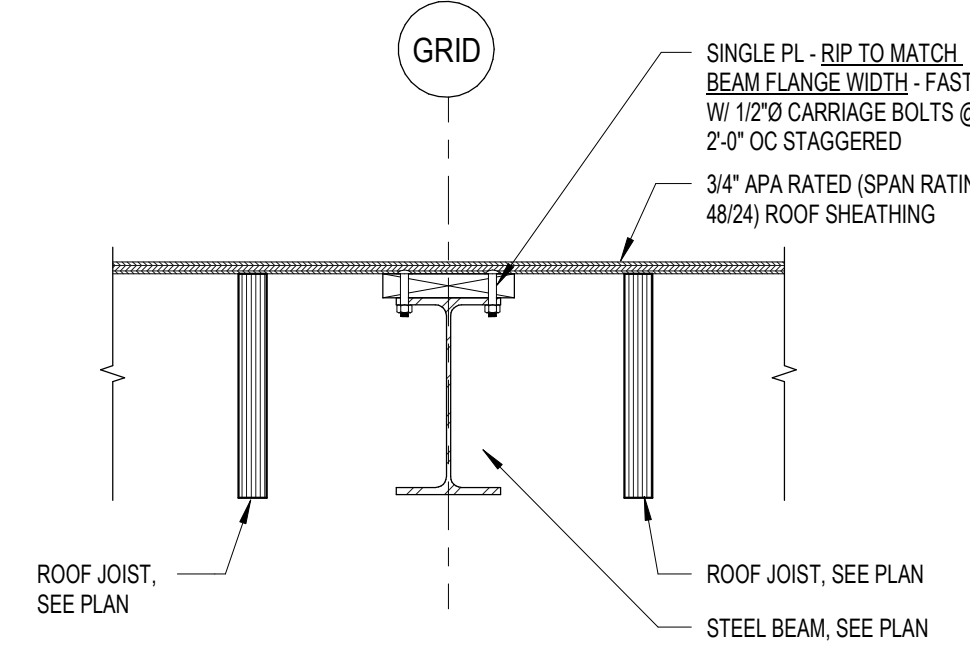
4 FRAMING DETAIL
S422 1" = 1'-0"



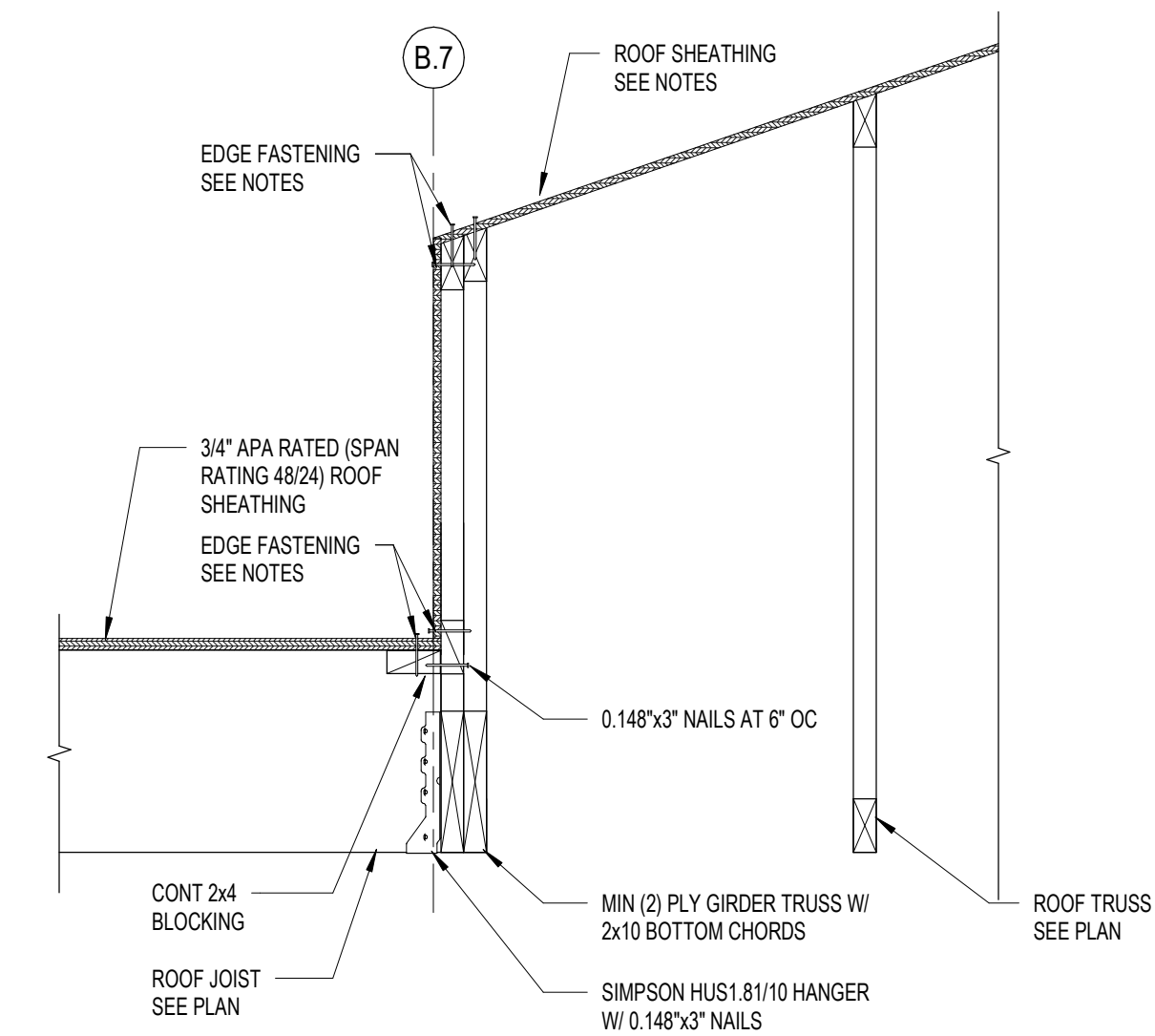
5 FRAMING DETAIL
S422 1" = 1'-0"



6 FRAMING DETAIL
S422 1" = 1'-0"



7 FRAMING DETAIL
S422 1" = 1'-0"



8 FRAMING DETAIL
S422 1" = 1'-0"

Revisions	DATE	COMMENTS
#		

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: Michael Teitel
Date: 11/08/2024 License #: 58944
SPACE FOR ENGINEER'S SEAL

HUGO APARTMENTS
HUGO, MN

SHEET CONTENTS:
FRAMING DETAILS

SHEET NO.

S422

22124-16