



Phone: (701) 280-0187
Fax: (701) 280-9021

**Moorhead Area Public Schools
New Elementary School
Moorhead, Minnesota**

Project No. 15-025

Bid Date & Time: Thursday, April 21, 2016 at 2:30pm
Date: April 14, 2016

ADDENDUM No. 1

The following additions, clarifications, deletions and/or changes shall be made to the SPECIFICATIONS:

Specifications Cover

1. Omit bid package 3D Precast Concrete – Erection
2. Combine bid package 31 Building Earthwork and 31A Site Earthwork to form bid package 31/31A Earthwork.

Section 00 0109: Bid Package Summary

1. Omit bid package 3D Precast Concrete – Erection.
2. Bid Package 5B Structural Steel – Erection. Add the following:
Section 03 4113 – Precast Concrete
3. Combine bid package 31 Building Earthwork and 31A Site Earthwork to form bid package 31/31A Earthwork.

Section 00 1100: Advertisement For Bids

1. Omit bid package 3D Precast Concrete – Erection.
2. Combine bid package 31 Building Earthwork and 31A Site Earthwork to form bid package 31/31A Earthwork.

Section 04 2000: Unit Masonry

1. Paragraph 1.01 – Add the following paragraph K:
K. Acoustical Masonry Units.
2. Paragraph 2.01, A Concrete Block – Add the following Paragraph 8:
8. Acoustical Block shall be “Soundblox RSC-RF” as manufactured by the Proudfoot Co. Inc, Monroe, CT, Type IV Acousta-Wal by Trenwyth, or approved equal.
 - a. Provide thermal sound insulation in block cavity.
 - b. Provide finishes, sizes, coursings etc. as shown on the drawings.
 - c. Provide right and left hand blocks as required to accommodate vertical wall reinforcing.
3. Paragraph 2.02, B, 1 – Face Brick: Add the following after smoked Tudor:
Brick shall be cross set with ‘Sanded Texture’ to match existing Horizon Middle School.
4. Paragraph 2.02 Brick units, B, 2 – Add the following size:
 - a. Modular size (at dumpster enclosure): 3 5/8 x 2 1/4 x 7 5/8 inch (92 x 5 x 194 mm).

5. Paragraph 2.03 Cast stone units, A, 2: – Omit and replace with the following:
Color and texture: Provide 2 colors; one color for use on the the exterior and one color for use on the interior.

Section 05 3100: Steel Decking

1. Paragraph 2.01 Steel Deck, A, 2 – Omit and replace with the following:
Primer: Shop coat of gray or white, oven cured, lead free, rust-inhibitive waterbased acrylic resin with chromate primer complying with performance requirements of ASTM-D-3359 over cleaned and phosphatized substrate. Primer must be compatible with finishes as specified in Section 09 9000.
2. Paragraph 2.01 Steel Deck, B, 5:
 - a. NRC shall be 0.70 NRC minimum in lieu of 0.95.
3. Paragraph 2.01 Steel Deck, B, 5, b – Omit and replace with the following:
 - a. Acoustical perforations: Deck units with 5/32" perforated holes staggered 3/8" O.C. at side of deck flutes.
4. Paragraph 2.01 Steel Deck, C, 3 – Omit and replace with the following:
Primer: Shop coat of gray or white, lead free, rust-inhibitive waterbased acrylic resin with chromate primer complying with performance requirements of ASTM-D-3359 over cleaned and phosphatized substrate. Primer must be compatible with finishes as specified in Section 09 9000.
5. Paragraph 2.01 Steel Deck – Add paragraph D:
 - D. Metal Stoop Deck: Corrugated sheet steel:
 1. Galvanized Steel Sheet: ASTM A653/A653M, Structural Steel (SS) Grade 33/230, with G90/Z275 galvanized coating.

Section 08 8000: Glazing

1. Paragraph 2.04 Insulating Glass Units – Add the following paragraph, glass type D:
 - D. Type IG-3 Insulating Glass Units: Spandrel glazing.
 1. Applications: Exterior spandrel glazing unless otherwise indicated.
 2. Space between lites filled with argon.
 3. Outboard Lite: Annealed float glass 1/4 inch (6.4 mm) thick, minimum.
 - a. Tint: Clear.
 - b. Coating: Same as on vision units, on #2 surface.
 4. Inboard Lite: Heat-strengthened float glass, 1/4 inch (6.4 mm) thick.
 - a. Opacifier: Ceramic frit, on #4 surface.
 - b. Opacifier Color: Subdue Gray.
 5. Total Thickness: 1 inch (25.4 mm).

Section 09 2116: Gypsum Board Assemblies

1. Paragraph 2.03 Board Materials – Add the following paragraph F:
 - F. Impact-Resistant Wallboard:
 1. Location: South Gymnasium 111.
 2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
 3. Paper-Faced Type: Gypsum wallboard as defined in ASTM C1396/C1396M.
 4. Unfaced Type: Interior fiber-reinforced gypsum panels as defined in ASTM C1278/C1278M.
 5. Type: Fire-resistant rated Type X, UL, or WH listed.
 6. Thickness: 5/8 inch (16mm).
 7. Edges: Tapered.
 8. Products: National Gypsum Company; Gold Bond Hi-Impact Brand XP Wallboard or equal.

The following additions, clarifications, deletions and/or changes shall be made to the DRAWINGS:

General Clarification

1. Remove all wall finish tag references. Refer to plan notes and room finish schedules for burnished block and moisture or impact resistant GWB locations.
2. Provide approximately 1,100 square feet of acoustical block for each gymnasium. Configurations will be provided in Bid Group II.

Sheet A0.1 – Architectural Site Plan

1. Detail 5/A0.1 – See attached typical base of wall detail.
2. Detail 6/A0.1 – See attached screen wall cap detail.
3. Detail 7/A0.1 – See attached typical screen wall elevation.

Sheet A0.5 – Partition Types

1. Interior Wall Types, Type M8:
 - a. Add the following note: “Note: See enlarged area plans for partitions to receive sand-filled cores.”
2. Interior Wall Types, Type S2:
 - a. Add the following note: “TYPE S1: (1) Layer of 5/8” GWB on (1) side over 1 5/8” metal stud framing @ 16” O.C. by 9B”
 - b. Add overall dimension for Type S1, “1-5/8” @ S1”.
3. Exterior Wall Types, Type E7:
 - a. Revise vertical Z-furring to 16” O.C. spacing.

Sheet A0.6 – Reference Sheet

1. CMU Wall Pattern Types & Drywall Elevation:
 - a. Replace with attached revised wall patterns.

Sheet A3.10 – Enlarged Plan – Area A

1. Area A Enlarged Plan:
 - a. Revise column wraps on grids P.1, S, Y.3, T.1 at the south of Cafeteria 104 to indicate wall type M4, see attached revised plan.
 - b. Add plumbing chase wall to east wall of Toilet 115B, see attached revised plan.
 - c. Revise Dry Storage 115D and Dish Room 115A as indicated on attached revised plan.
 - d. Revise Serving/Kitchen 115 as indicated on attached revised plan.
 - e. See attached revised plan for additional aluminum frame and door tags.

Sheet A3.11 – Enlarged Plan – Area B

1. Area B Enlarged Plan:
 - a. Replace with attached revised area B enlarged plan.
2. Insert attached plan details 2, 3 and 4/A3.11.
3. Revise LSS 129 to Speech 129.

Sheet A3.12 – Enlarged Plan – Area C

1. Area C Enlarged Plan:
 - a. See attached revised plan for additional aluminum frame and door tags.
 - b. Revise LSS 185 & LSS 200 as indicated in attached revised plan. LSS 185 shall be renamed to Speech 185.

2. Plan Detail, 3/A3.12: Replace with attached revised plan detail.

Sheet A3.13 – Enlarged Plan – Area D

1. Area D Enlarged Plan:
 - a. See attached revised plan for additional aluminum frame and door tags.
 - b. Revise LSS 145 & LSS 160 as indicated in attached revised plan. LSS 145 shall be renamed to Speech 145.

Sheet A3.70 – Room Finish Schedule & Finish Plan

1. Insert attached sheet A3.70.

Sheet A3.90 – Aluminum Frame Elevations

1. Omit frame type A-2.

Sheet A3.91 – Aluminum Door Schedule & Frame Details

1. Insert attached opening details 20 & 21/A3.91.
2. Aluminum – Misc. Openings, Frame A-43: Revise sill height to 3'-4" and opening height to 4'-0".
3. Aluminum Frame Types – Storefront 4500 Series: Revise groups A-37, A-38, A-39, A-40, A-41, and A-42 as indicated in the attached revised frame elevations.

Sheet A4.01 – Area A Exterior Elevations

1. Area A – South Elevation, 1/A4.01: See attached revised elevation for additional aluminum frame tags.
2. Area A – West Elevation, 3/A4.01: Revise panel jointing as indicated.

Sheet A4.02 – Area B&C Exterior Elevations

1. Area B – West Elevation, 4/A4.02: See attached revised elevation for additional aluminum frame and door tags.
2. Area B – East Elevation, 6/A4.02: See attached revised elevation for additional aluminum frame and door tags.

Sheet A4.03 – Area C&D Exterior Elevations

1. Area C – East Elevation, 1/A4.03: See attached revised elevation for additional aluminum frame and door tags.
2. Area D – East Elevation, 2/A4.03: See attached revised elevation for additional aluminum frame and door tags.
3. Area D – South Elevation, 3/A4.03: See attached revised elevation for additional aluminum frame and door tags.
4. Area D – West Elevation, 4/A4.03: See attached revised elevation for additional aluminum frame and door tags.
5. Area D – North Elevation, 5/A4.03: See attached revised elevation for additional aluminum frame and door tags.

Sheet A4.12 – Building Sections

1. Insert attached plan building section 6/A4.12.

Sheet A6.10 – Reflected Ceiling Plan – Area A

1. Area A Reflected Ceiling Plan:
 - a. Replace with attached revised area A reflected ceiling plan.
2. Insert attached soffit detail 7/A6.10

Sheet A6.11 – Reflected Ceiling Plan – Area B

1. Area A Reflected Ceiling Plan:
 - a. Replace with attached revised area B reflected ceiling plan.
2. Insert attached soffit details 3 & 4/A6.11.

END OF ADDENDUM No. 1



LAND USE & ZONING

1. MOORHEAD, MN PROPERTY
PARCEL NUMBER IS: 59.561.0100
2. LAND TRACT SIZE:
ACROSS 17.75
SQUARE FEET: 773,180
3. ZONED INSTITUTIONAL
4. FRONT YARD SETBACK = 35'
BACK / SIDE YARD SETBACK = 15'
5. LANDSCAPING REQUIREMENTS, NO
SIGNAGE REQUIRED FOR INSTITUTIONAL
ZONED DISTRICTS
6. CHAPTER 20 OFF STREET PARKING
REQUIREMENTS:
CLASSROOMS & PUBLIC
ELEMENTARY & JUNIOR HIGH 1 SPACE
PER STUDENT
JUNIOR HIGH & ADDITIONAL
SPACE PER 50 STUDENTS
7. SUMMARY OF NEW ELEMENTARY SCHOOL
K-4 GRADE
5 LEARNING COMMUNITIES WITH 6
CLASSROOMS, 30 ROOMS TOTAL
1 LEARNING COMMUNITY WITH 387
STUDENTS
4 LEARNING COMMUNITIES WITH 268
STUDENTS
146 STUDENTS IN TOTAL
54 REQUIRED PARKING SPACES
8. SUMMARY OF NEW ELEMENTARY SCHOOL
PROVIDED PARKING SPACES:
31 TOTAL VEHICULAR STALLS
8 ACCESSIBLE STALLS
TOTAL PROVIDED PARKING
SPACES: 39
TOTAL REQUIRED PARKING
SPACES: 54

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

BID GROUP I

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 Architect under the laws of the State of Minnesota.

Print Name: Brian C Berg
Signature: *B.C.B.*
Date: 04-07-2016 Registration No. 41686

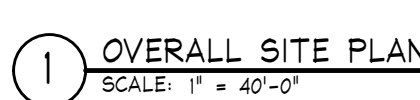
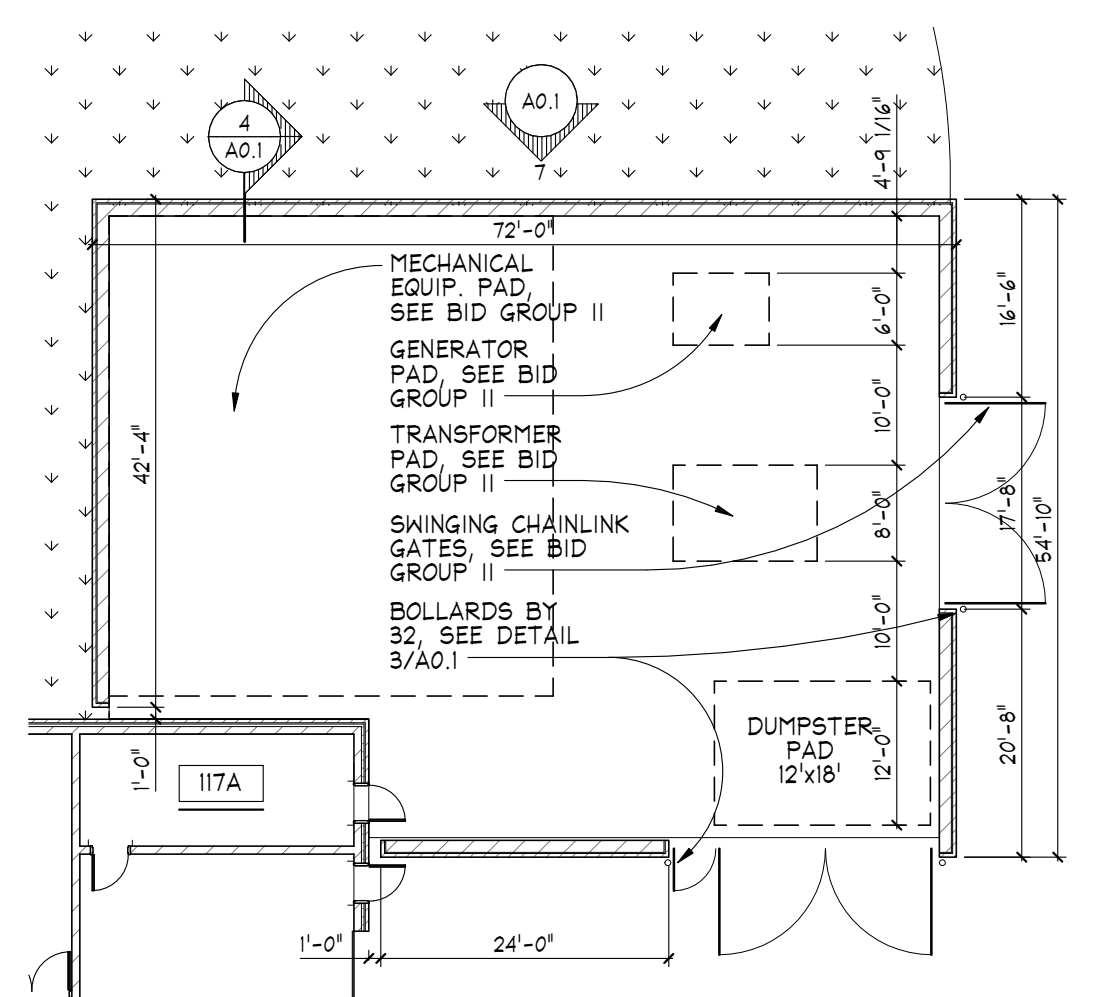
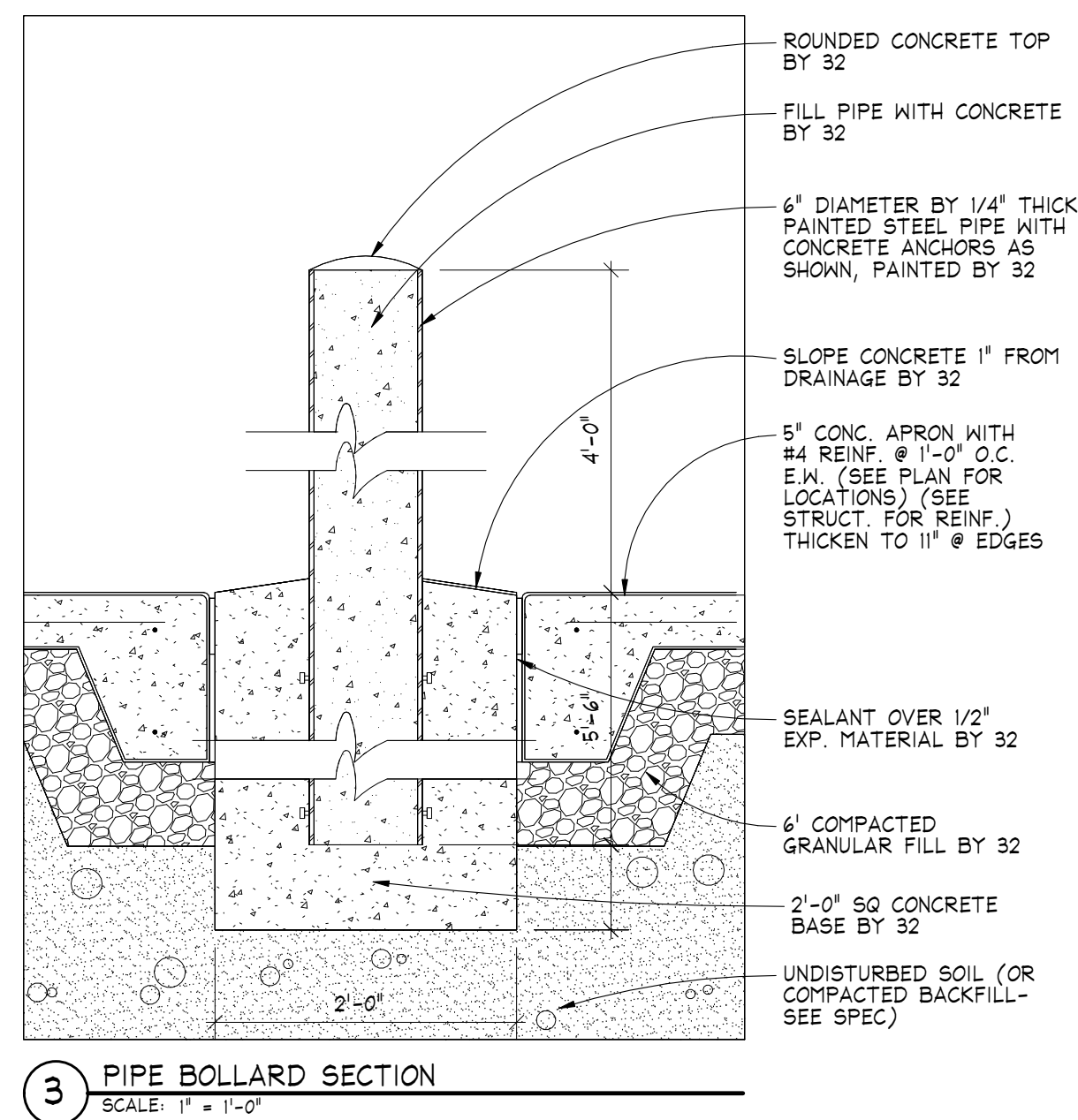
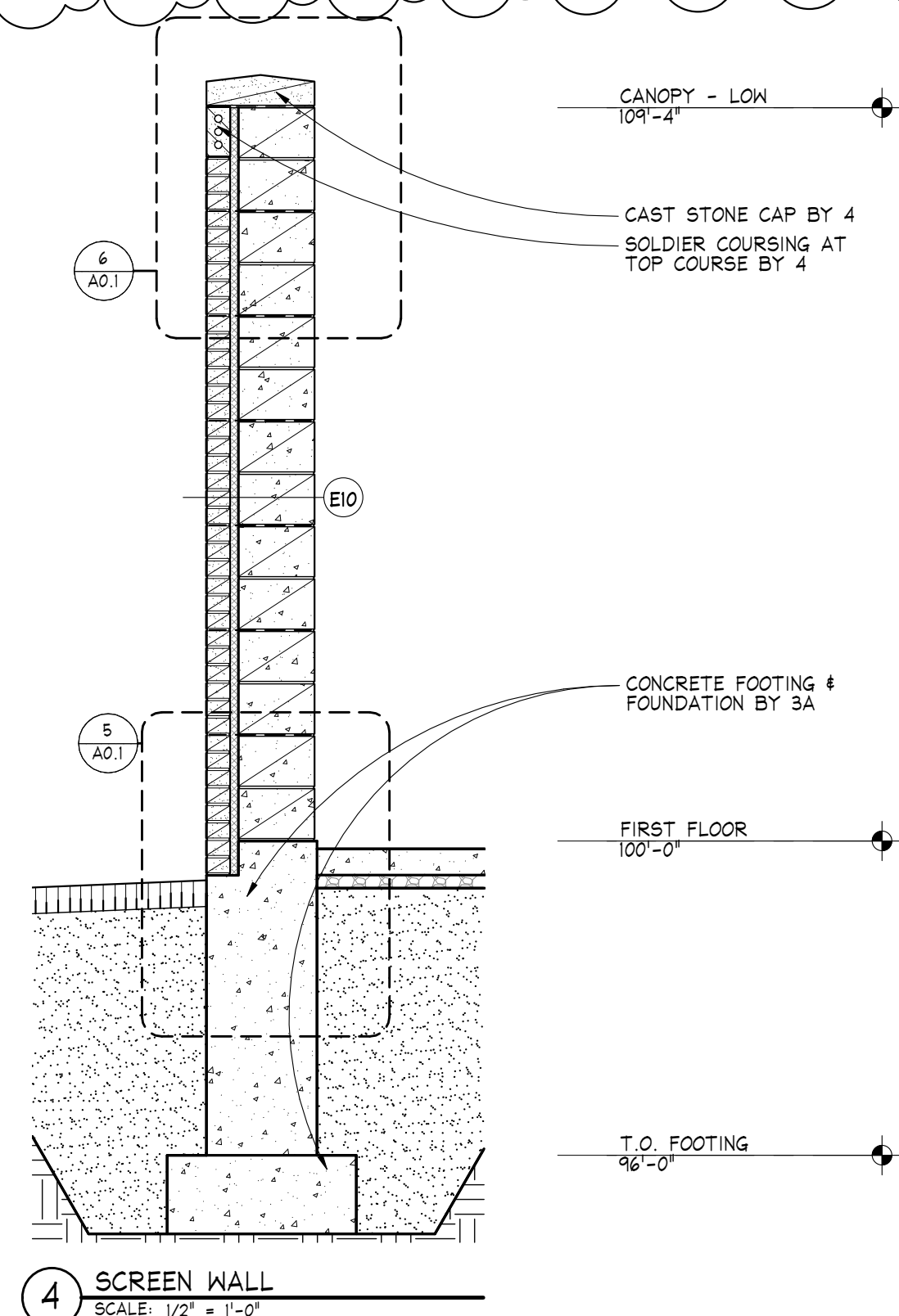
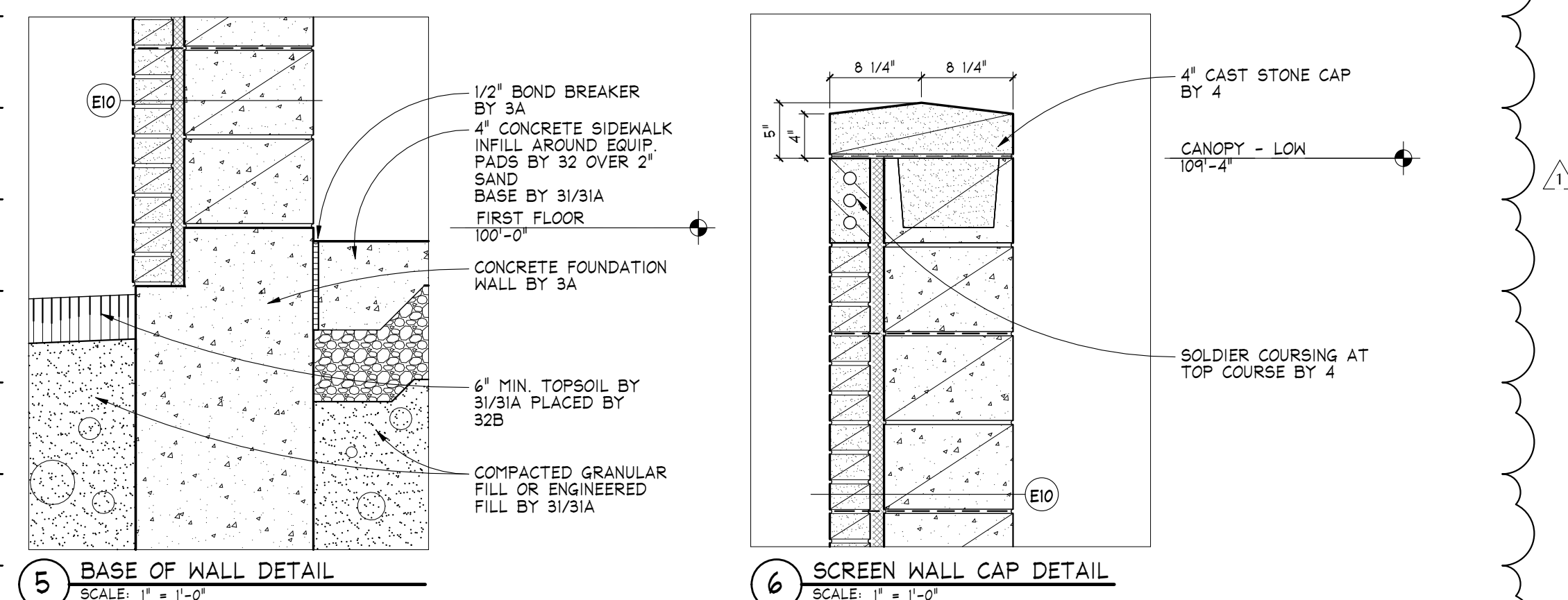
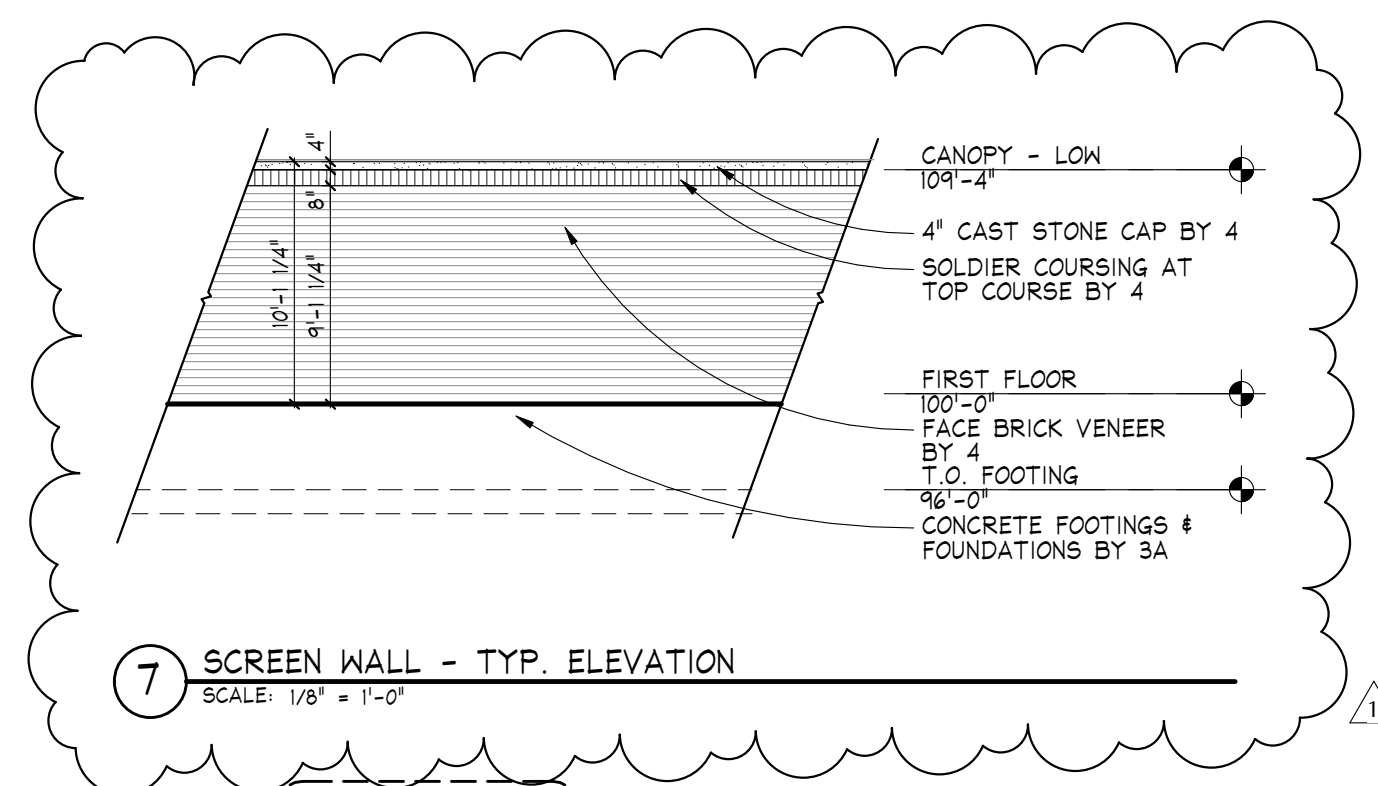
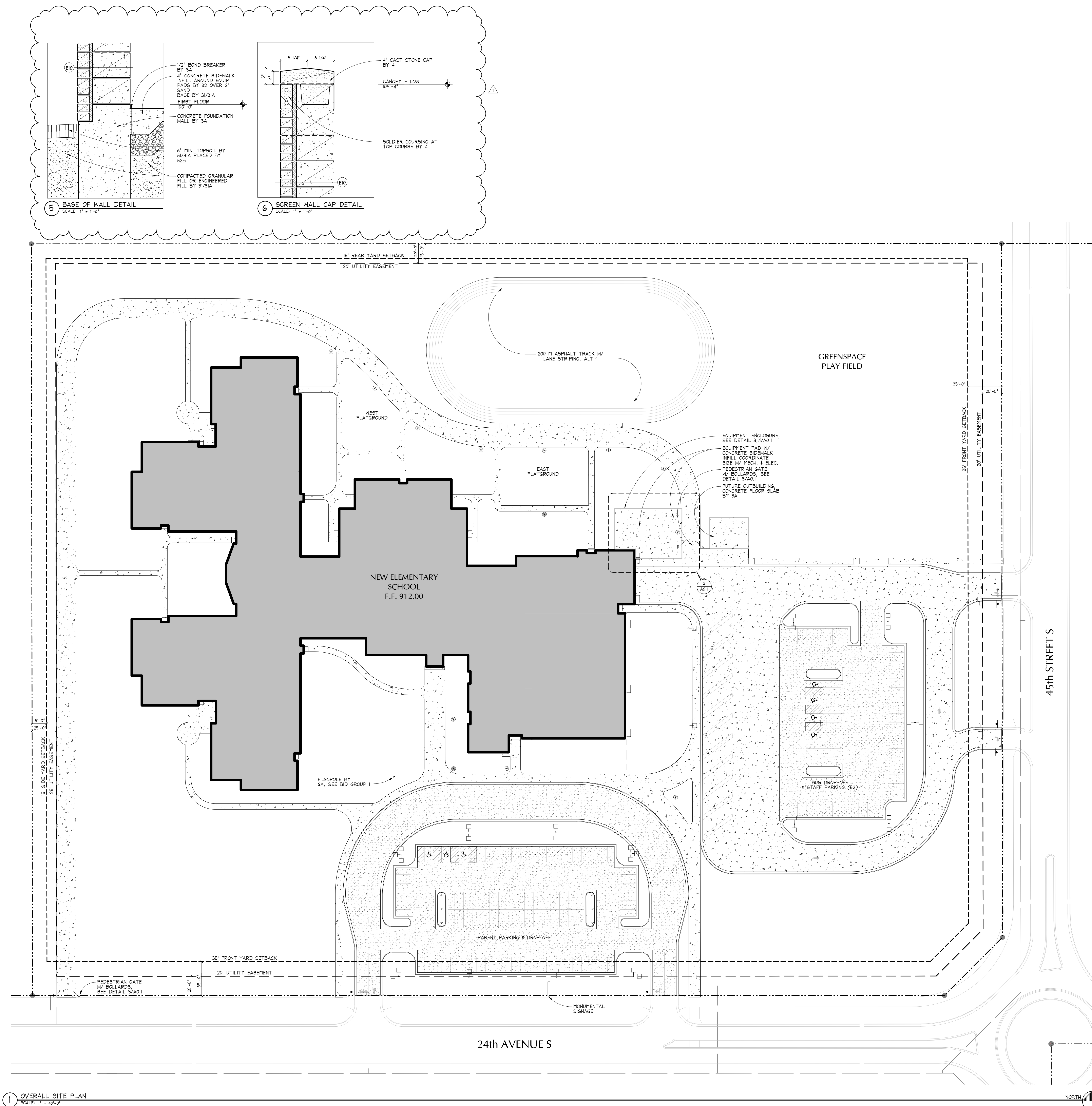


MOORHEAD AREA PUBLIC
SCHOOLS
NEW ELEMENTARY
SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

ARCHITECTURAL SITE PLAN

Project No.: 15-025
Date: 04-07-2016

A0.1



FLOOR PLAN KEYNOTES

3 - DENOTES 2 HOUR FIRE RALN CONSTRUCTION. EACH CONTRACTOR TO FIRESTOP AND SEAL ALL PENETRATIONS THROUGH RATED CONSTRUCTION.

4 - SEE MASONRY CONTROL Joints BY BID PACKAGE 4. SEE EXTERIOR ELEVATIONS AND FLOOR PLANS FOR LOCATIONS AND DETAILS ON REFERENCE DRAWING A05.

5 - KITCHEN RECESS 2 1/2" W/ SLAB TOLERENCE 3A - KITCHEN COOLER AREA RECESS 2 1/2" W/ SLAB TOLERENCE AT 1/8"FT. EACH DIRECTION. VERIFY WITH KITCHEN EQUIPMENT SCHEDULE. QTY FOR RECESS.

10 - POWER ASSISTED DOOR AND ACTUATION PADS LOCATION BY BID PACKAGE BE. POWER ROUGH-IN BY BID PACKAGE 26.

15 - VOLTEALL SLEEVES IN ALL SYSTEMS PROVIDE (2) SLEEVES AT EACH PENETRATION PROVIDE (4) NETS & STANDARDS TOTAL REFER TO DETAIL 2/43.10

16 - CPU CONSTRUCTION TO RECEIVE SHAD FILLED CORE.

17 - BUILD UP CONSTRUCTION. REFER TO A06 FOR CPU WALL PATTERN TYPES

- 1 ROOF HATCH, REFER TO DETAIL 34/A3.61.
- 2 ROOF ACCESS LADDER, REFER TO DETAILS 2-3/A3.60.
- 3 ROOF PADS
- 4 ROOF DRAIN, REFER TO DETAIL 34/A3.61.
- 5 ROOF OVERFLOW DRAIN, REFER TO DETAIL 34/A3.61.
- 6 ROOF CURB, REFER TO DETAILS 33/A3.61
- 7 MECHANICAL UNIT ROOF CURB, REFER TO DETAILS 32.35/A3.61.
- 8 ROOF TUBULAR SKYLIGHTS, REFER TO DETAIL 30/A3.61.
- 9 ROOF SCUPPERS, REFER TO DETAILS 24-27/A3.61.

56

55

54

53

52

51

M12

M13

M14

[illegible]

12. 3/4"

HORIZ. JOINT REINF. SEE STRUCT. EXTEND INTO NEAREST CORE BY 4'

SEALANT W/ BACKUP BY TG

GROUT CORE SOLID. SEE STRUCT. FOR REINF. BY 4'

HORIZ. JOINT REINF. SEE STRUCT. EXTEND INTO NEAREST CORE BY 4'

RUBBER CONTROL JOINT BT 4'

SEALANT W/ BACKUP BY TG

8" CMU WALL CONST. SEE STRUCT. FOR REINF. BY 4'

NOTE: SEE STRUCTURAL FOR VERTICAL WALL REINFORCING

HORIZ. JOINT REINF. SEE STRUCT. EXTEND INTO NEAREST CORE BY 4'

SEALANT W/ BACKUP BY TG

GROUT CORE SOLID. SEE STRUCT. FOR REINF. BY 4'

HORIZ. JOINT REINF. SEE STRUCT. EXTEND INTO NEAREST CORE, SEE STRUCT. BY 4'

8" CMU WALL CONST. SEE STRUCT. FOR REINF. BY 4'

RUBBER CONTROL JOINT BY 4'

SEALANT W/ BACKUP BY TG

NOTE: SEE STRUCTURAL FOR VERTICAL WALL REINFORCING

Diagram R1 (Left): Shows a cross-section of a roof assembly for a 1/4" PER 1' TAPERED SLOPE. The assembly consists of a 60 MIL FULLY ADHERED TPO ROOF MEMBRANE BY 7A, followed by TAPERED POLYISO ROOF INSULATION OVER (3) LAYERS OF 2" POLYISO ROOF INSULATION WITH STAGGERED JOINTS BY 7A, and a PRIMED ACOUSTICAL ROOF DECK/CEILING SYSTEM BY 5A. The system is installed BY 5B. A note indicates to SEE REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE FOR EXPOSED LOCATIONS.

Diagram R2 (Middle): Shows a cross-section of a roof assembly for a 1/4" PER 1' TAPERED SLOPE. The assembly consists of a 60 MIL FULLY ADHERED TPO ROOF MEMBRANE BY 7A, followed by (3) LAYERS OF 2" POLYISO ROOF INSULATION WITH STAGGERED JOINTS BY 7A, a 5/8" GNB THERMAL BARRIER BY 7A, an ACOUSTICAL ROOF DECK OVER STEEL JOISTS OR BEAMS BY 5A, and a system installed BY 5B. A note indicates to SEE STRUCT. Below the diagram, it says ACOUSTICAL BATTS IN ROOF DECK BY 5A INSTALLED BY 7A, and SEE REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE FOR EXPOSED LOCATIONS.

Diagram R3 (Right): Shows a cross-section of a roof assembly for a 1/4" PER 1' TAPERED SLOPE. The assembly consists of a 60 MIL FULLY ADHERED TPO ROOF MEMBRANE BY 7A, followed by TAPERED POLYISO ROOF INSULATION OVER (3) LAYERS OF 2" POLYISO ROOF INSULATION WITH STAGGERED JOINTS BY 7A, and a 1 1/2" STEEL DECK OVER STEEL JOISTS & OR BEAMS BY 5B. The system is installed BY 5B. A note indicates to SEE STRUCTURAL.

7 CORNER @ CMU/STL. STUD WALL

6 CORNER @ CMU/STL. STUD WALL

5 CORNER @ CMU/STL. STUD WALL

1 HEAD FLASHING DETAIL

8 CONTROL JOINT - 1-HR

8 CONTROL JOINT - 1-HR

6 CORNER @ CMU/STL. STUD WALL

5 CORNER @ CMU/STL. STUD WALL

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

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 Architect under the laws of the State of Minnesota.

Print Name: Brian C. Berg

Signature: BCB

Date: 04-07-2016 Registration No. 41686



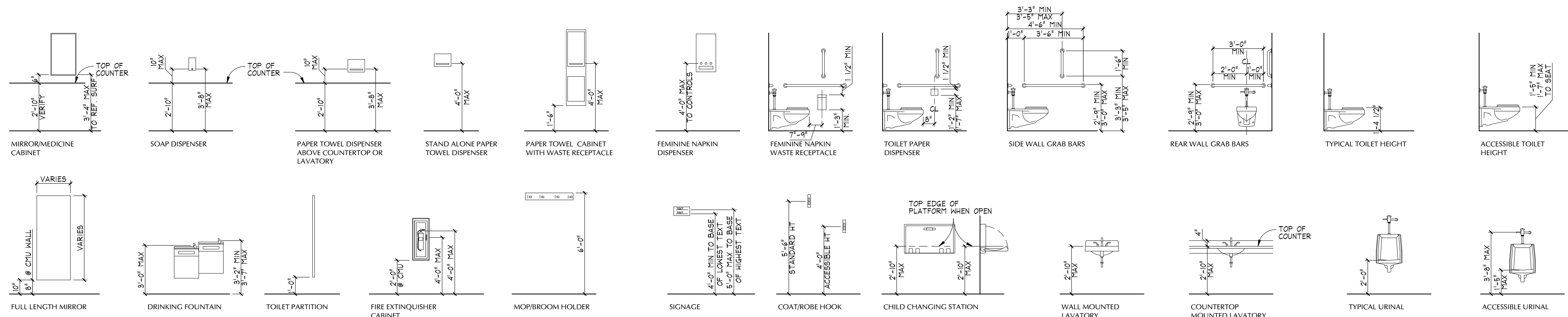
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PARTITION TYPES

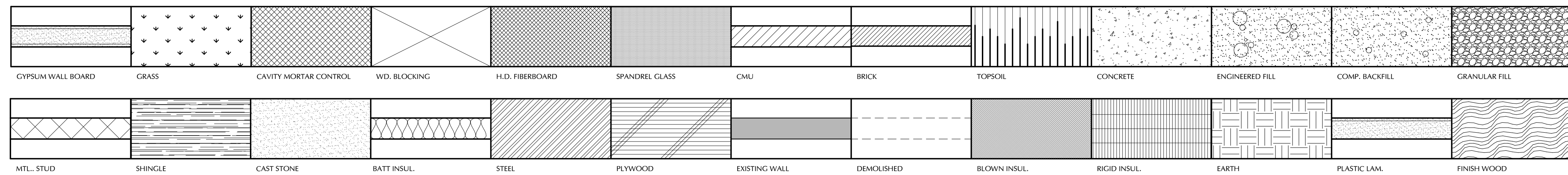
Project No.: 15-025
Date: 04-07-2016

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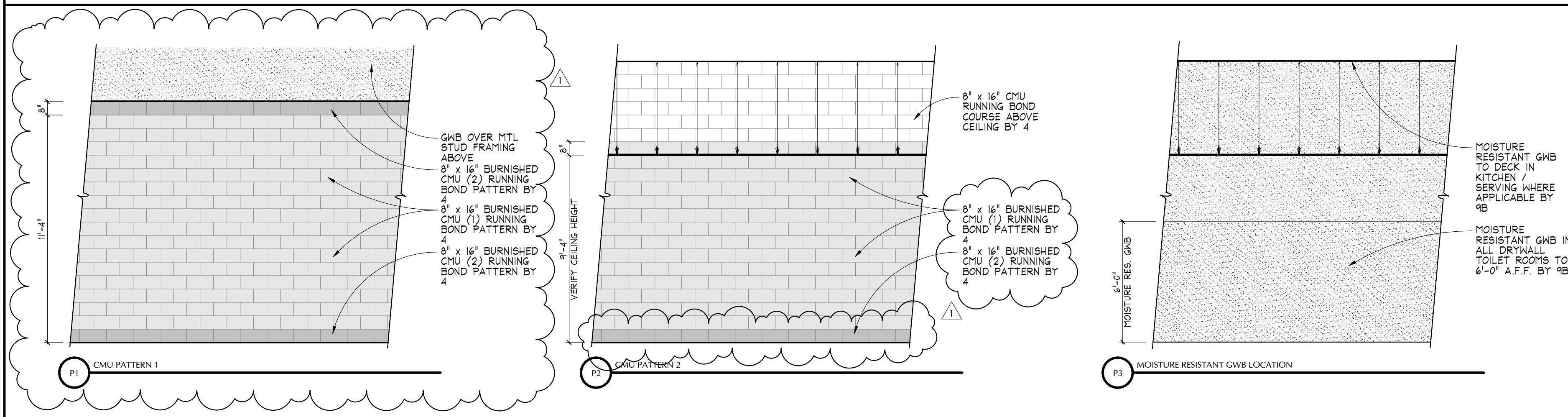
STANDARD MOUNTING HEIGHTS - ADA/ANSI/ACCESSIBLE REQUIREMENTS



HATCH PATTERNS / MATERIAL REPRESENTATION INDEX (NOT ALL MAY BE USED)



CMU WALL PATTERN TYPE& DRYWALL ELEVATION



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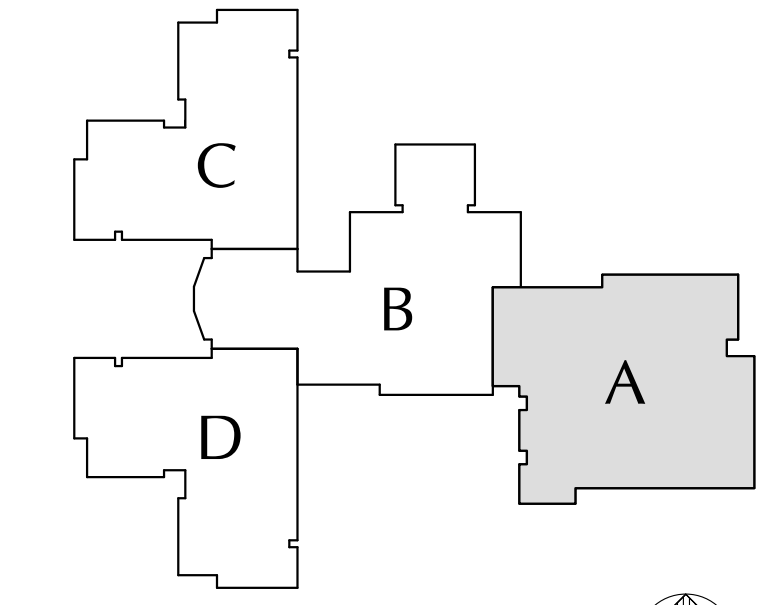
REFERENCE SHEET

INTERIOR PARTITIONS

- M4 4" CMU WALL CONSTRUCTION.
- M8 8" CMU WALL CONSTRUCTION.
- M12 12" CMU WALL CONSTRUCTION.
- S1 3 5/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GWB ON ONE SIDE.
- S2 3 5/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GWB ON ONE SIDE.
- S3 3 5/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER OF GWB EACH SIDE.
- S4 3 5/8" STL. STUD WALL CONSTRUCTION WITH TWO LAYERS OF GWB ON EACH SIDE.
- S5 6" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GWB ON EACH SIDE.
- S6 6" STL. STUD WALL CONSTRUCTION WITH TWO LAYERS OF GWB ON EACH SIDE.

EXTERIOR WALLS

- E1 4"x12"x2 1/4" FACE BRICK VENEER WITH 6" CMU WALL CONSTRUCTION.
- E2 PREFINISHED CORRUGATED METAL PANEL WITH 8" CMU WALL CONSTRUCTION.
- E3 PREFINISHED COMPOSITE METAL PANEL WITH 8" CMU WALL CONSTRUCTION.
- E4 4"x12"x2 1/4" FACE BRICK VENEER WITH 12" CMU WALL CONSTRUCTION.
- E5 PREFINISHED CORRUGATED METAL PANEL WITH 12" CMU WALL CONSTRUCTION.
- E6 4"x12"x2 1/4" FACE BRICK VENEER WITH 6" STL. STUD WALL CONSTRUCTION.
- E7 PREFINISHED CORRUGATED METAL PANEL OVER 6" STL. STUD FRAMING BACKUP.
- E8 PREFINISHED CORRUGATED METAL PANEL WITH 6" STL. STUD WALL CONSTRUCTION.
- E9 4"x12"x2 1/4" FACE BRICK VENEER BOTH SIDES OVER 7 5/8" CMU BACKUP.
- E10 4"x12"x2 1/4" FACE BRICK VENEER WITH 12" CMU WALL CONSTRUCTION, NO INSULATION.



KEY PLAN
NOT TO SCALE

Revision Schedule		
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1	4/7/2016	ADD #1

BID GROUP I

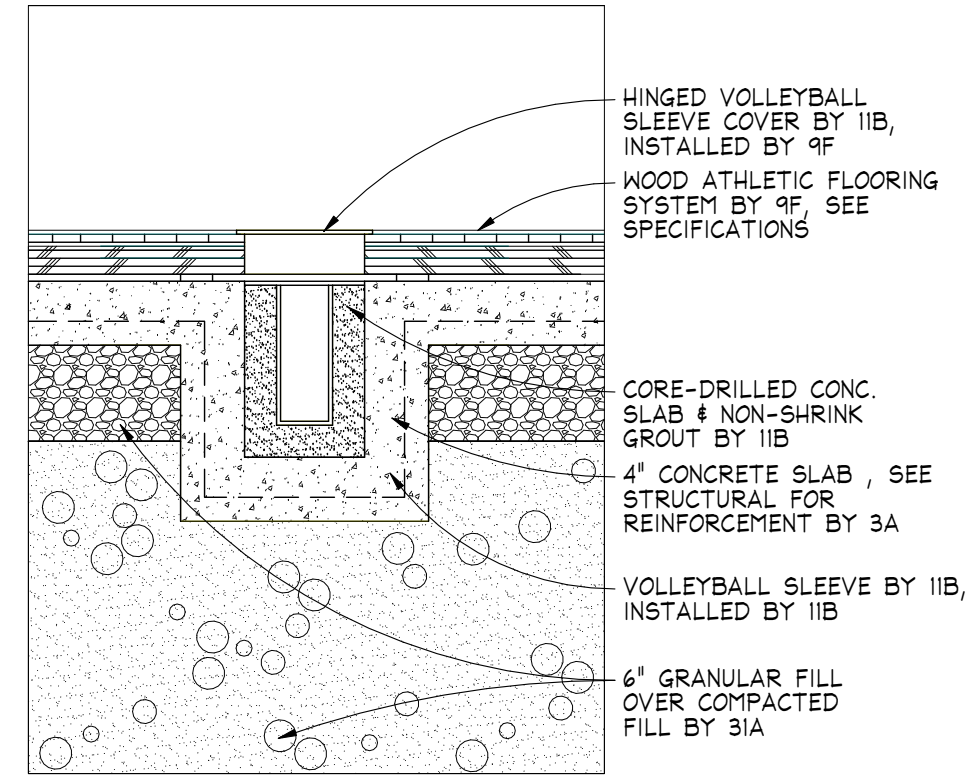
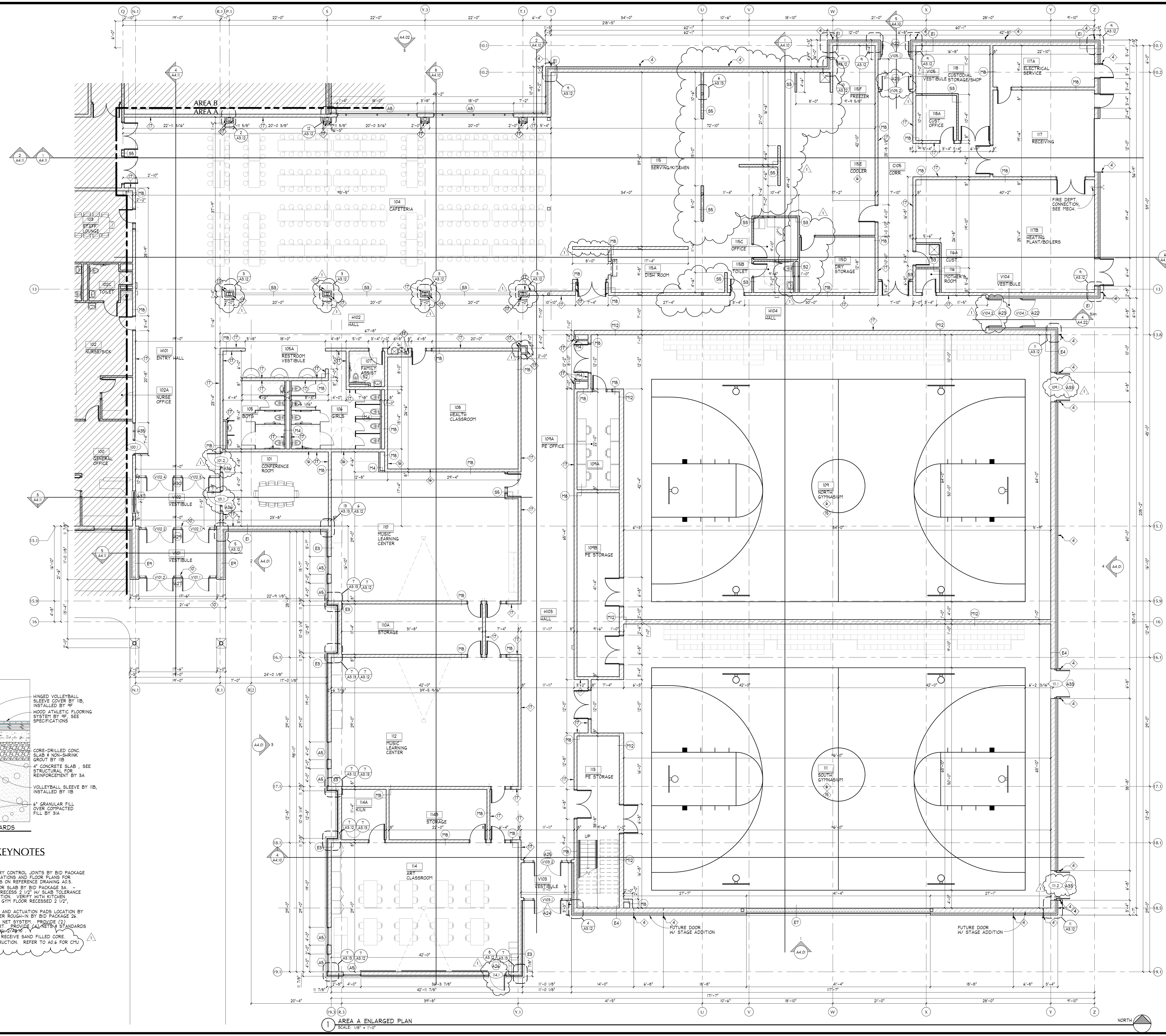
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MOORHEAD AREA PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

ENLARGED PLAN - AREA A



2 VOLLEYBALL STANDARDS
SCALE: 1/8" = 1'-0"

FLOOR PLAN KEYNOTES

- 4 INDICATES MASONRY CONTROL JOINTS BY BID PACKAGE 4. SEE EXTERIOR ELEVATIONS AND FLOOR PLANS FOR LOCATIONS AND DETAILS ON REFERENCE DRAWING A0.5.
- 6 RECESS CONCRETE FLOOR SLAB BY BID PACKAGE 3A. KITCHEN COOLER AREA RECESS 2 1/2" W/ SLAB TOLERANCE AT 1/8" FT. EACH DIRECTION. VERIFY WITH KITCHEN EQUIPMENT SCHEDULE. GYM FLOOR RECESSED 2 1/2". VERIFY.
- 10 POWER ASSISTED DOOR AND ACTUATION PADS LOCATION BY BID PACKAGE 6E. POWER ROUGH-IN BY BID PACKAGE 26.
- 15 VOLLEYBALL SLEEVES & NET SYSTEM. PROVIDE (2) SLEEVES AT EACH COURT. PROVIDE (4) NETS & STANDARDS TO MATCH REF TO DETAIL A0.6.
- 16 CMU CONSTRUCTION TO RECEIVE SAND FILLED CORE. BURNISHED CMU CONSTRUCTION. REFER TO A0.6 FOR CMU WALL PATTERN TYPES.
- 17

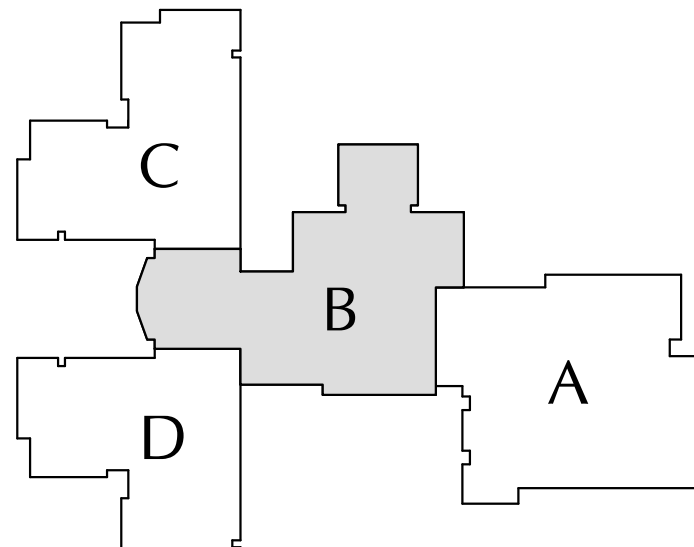
1 AREA A ENLARGED PLAN
SCALE: 1/8" = 1'-0"

INTERIOR PARTITIONS

- M4 4" CMU WALL CONSTRUCTION.
- M8 8" CMU WALL CONSTRUCTION.
- M12 12" CMU WALL CONSTRUCTION.
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- E7 PREFINISHED CORRUGATED METAL PANEL OVER 6" STL. STUD FRAMING BACKUP.
- E8 PREFINISHED COMPOSITE METAL PANEL WITH 6" STL. STUD WALL CONSTRUCTION.
- E9 4"x12"x2 1/4" FACE BRICK VENEER BOTH SIDES OVER 7 5/8" CHU BACKUP.
- E10 4"x12"x2 1/4" FACE BRICK VENEER WITH 12" CMU WALL CONSTRUCTION, NO INSULATION.



KEY PLAN
NOT TO SCALE

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

BID GROUP I

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 Architect under the laws of the State of Minnesota.

Print Name: Brian C. Berg
Signature: *Brian C. Berg*
Date: 04-07-2016 Registration No. 41686

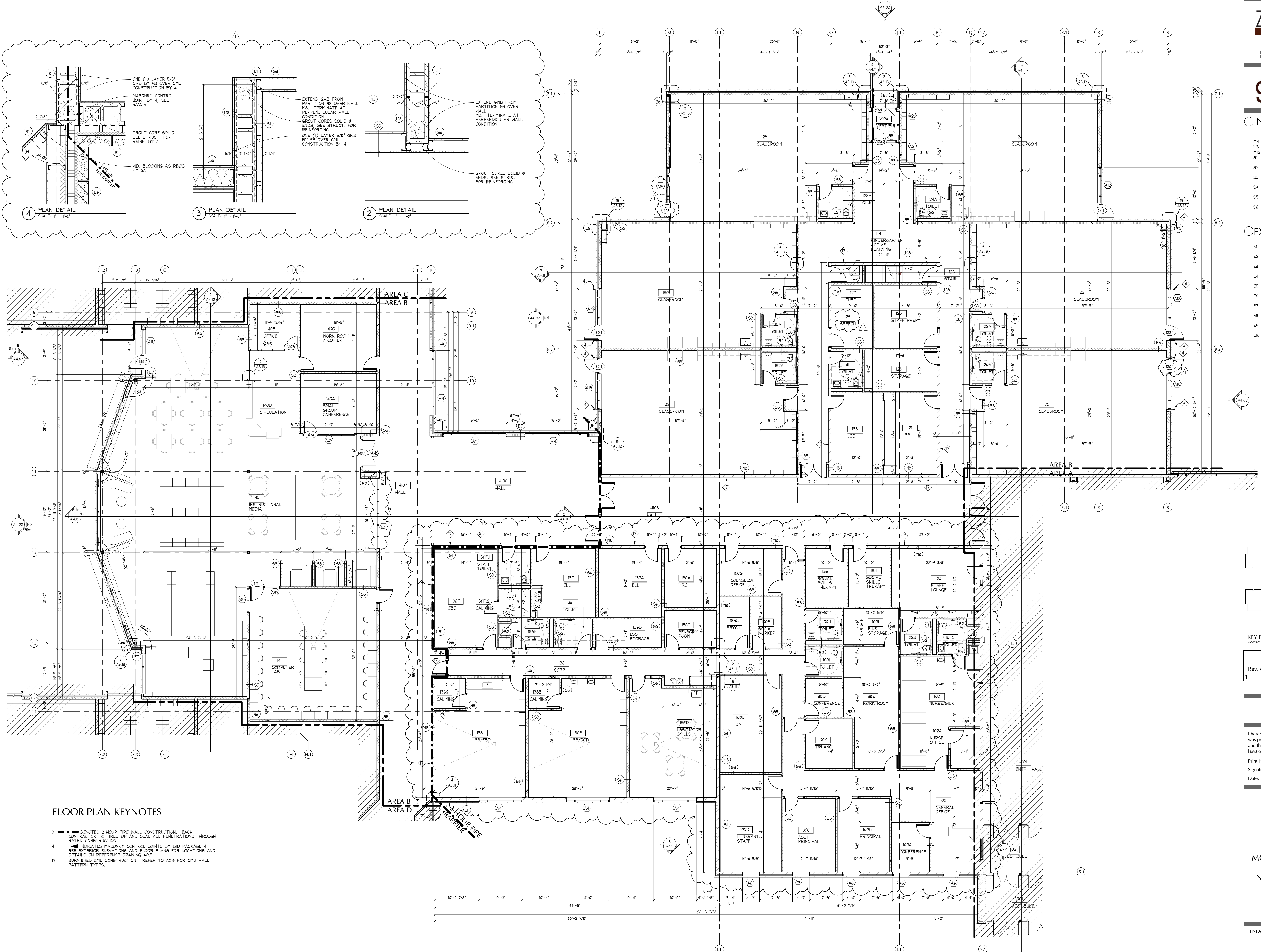


MOORHEAD AREA PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

ENLARGED PLAN - AREA B

Project No.: 15-025
Date: 04-07-2016

A3.11



FLOOR PLAN KEYNOTES

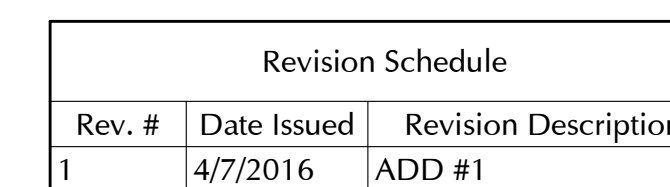
- 3 --- DENOTES 2 HOUR FIRE WALL CONSTRUCTION. EACH CONTRACTOR TO FIRESTOP AND SEAL ALL PENETRATIONS THROUGH RATED CONSTRUCTION.
- 4 INDICATES MASONRY CONTROL JOINTS BY BID PACKAGE 4. SEE EXTERIOR ELEVATIONS AND FLOOR PLANS FOR LOCATIONS AND DETAILS ON REFERENCE DRAWING A0.6.
- 17 BURNISHED CMU CONSTRUCTION. REFER TO A0.6 FOR CMU WALL PATTERN TYPES.

1 AREA B ENLARGED PLAN
SCALE: 1/8" = 1'-0"



○ EXTERIOR WALLS

- E1 4"x12"x1/4" FACE BRICK VENER WITH 8
CMU WALL CONSTRUCTION.
- E2 PREFINISHED CORRUGATED METAL PANEL
WITH 8" CMU WALL CONSTRUCTION.
- E3 PREFINISHED COMPOSITE METAL PANEL
WITH 8" CMU WALL CONSTRUCTION.
- E4 4"x12"x1/4" FACE BRICK VENER WITH 12
CMU WALL CONSTRUCTION.
- E5 PREFINISHED CORRUGATED METAL PANEL
WITH 12" CMU WALL CONSTRUCTION.
- E6 4"x12"x1/4" FACE BRICK VENER WITH 6"
STL. STUD WALL CONSTRUCTION.
- E7 PREFINISHED CORRUGATED METAL PANEL
OVER 6" STL. STUD FRAMING BACKUP.
- E8 PREFINISHED CORRUGATED METAL PANEL
WITH 6" STL. STUD WALL CONSTRUCTION.
- E9 4"x12"x1/4" FACE BRICK VENER BOTH
SIDES OVER 7.5" CMU BACKUP.
- E10 4"x12"x1/4" FACE BRICK VENER WITH 12"
CMU WALL CONSTRUCTION AND INSULATION.



BID GROUP 1

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 Architect under the laws of the State of Minnesota.

Print Name: Brian C. Berg
Signature: *B.C.B.*
Date: 04-07-2016 Registration No. 4168



MOORHEAD
MOORHEAD AREA PUBLIC
SCHOOLS
NEW ELEMENTARY
SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

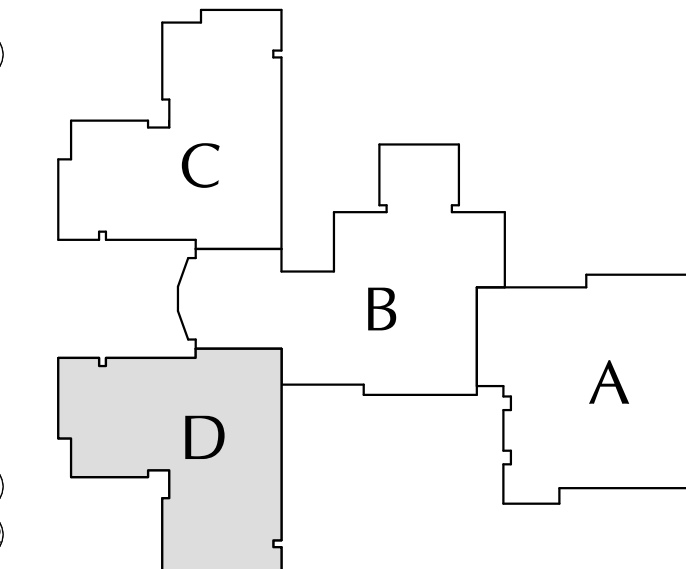
ENLARGED PLAN - AREA C

INTERIOR PARTITIONS

- 104 4" CMU WALL CONSTRUCTION.
105 8" CMU WALL CONSTRUCTION.
106 12" CMU WALL CONSTRUCTION.
107 3 5/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON ONE SIDE.
108 3 5/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON ONE SIDE.
109 3 5/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON EACH SIDE.
110 3 5/8" STL. STUD WALL CONSTRUCTION WITH TWO LAYERS OF GMB ON EACH SIDE.
111 6" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON EACH SIDE.
112 6" STL. STUD WALL CONSTRUCTION WITH TWO LAYERS OF GMB ON EACH SIDE.

EXTERIOR WALLS

- E1 4"x12"x2 1/4" FACE BRICK VENEER WITH 6" CMU WALL CONSTRUCTION.
E2 PREFINISHED CORRUGATED METAL PANEL WITH 8" CMU WALL CONSTRUCTION.
E3 PREFINISHED CORRUGATED METAL PANEL WITH 8" CMU WALL CONSTRUCTION.
E4 4"x12"x2 1/4" FACE BRICK VENEER WITH 12" CMU WALL CONSTRUCTION.
E5 PREFINISHED CORRUGATED METAL PANEL WITH 12" CMU WALL CONSTRUCTION.
E6 4"x12"x2 1/4" FACE BRICK VENEER WITH 6" STL. STUD WALL CONSTRUCTION.
E7 PREFINISHED CORRUGATED METAL PANEL OVER 6" STL. STUD FRAMING BACKUP.
E8 PREFINISHED CORRUGATED METAL PANEL WITH 6" STL. STUD WALL CONSTRUCTION.
E9 4"x12"x2 1/4" FACE BRICK VENEER BOTH SIDES OVER 7 5/8" CMU BACKUP.
E10 4"x12"x2 1/4" FACE BRICK VENEER WITH 12" CMU WALL CONSTRUCTION, NO INSULATION.



KEY PLAN
NOT TO SCALE

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

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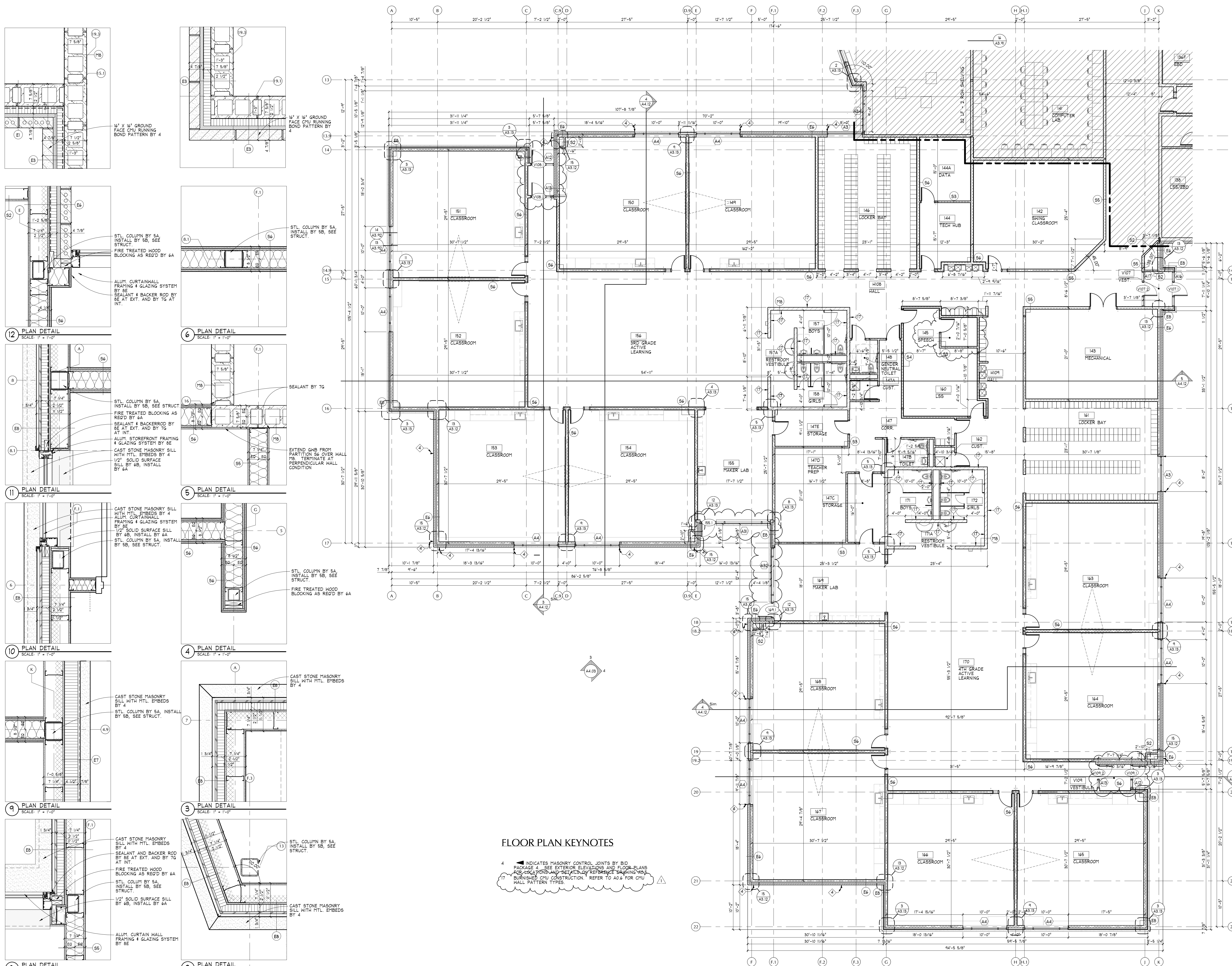


MOORHEAD AREA PUBLIC
SCHOOLS
NEW ELEMENTARY
SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

ENLARGED PLAN - AREA D

Project No.: 15-025
Date: 04-07-2016

A3.13

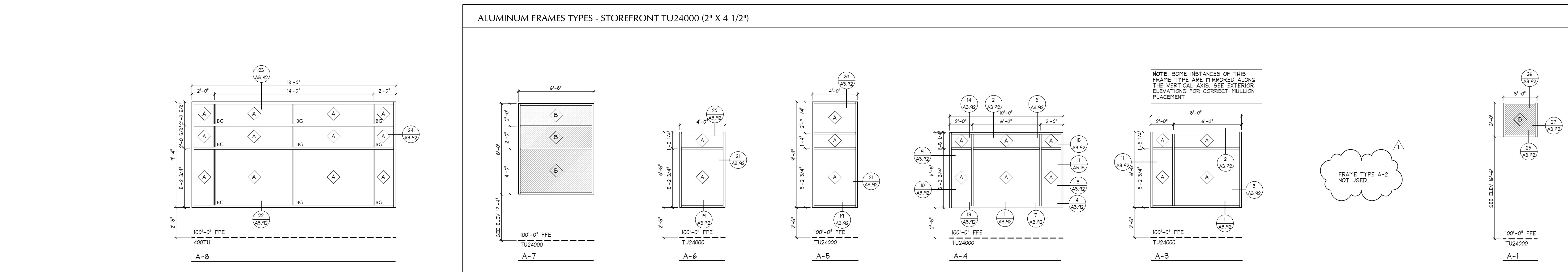
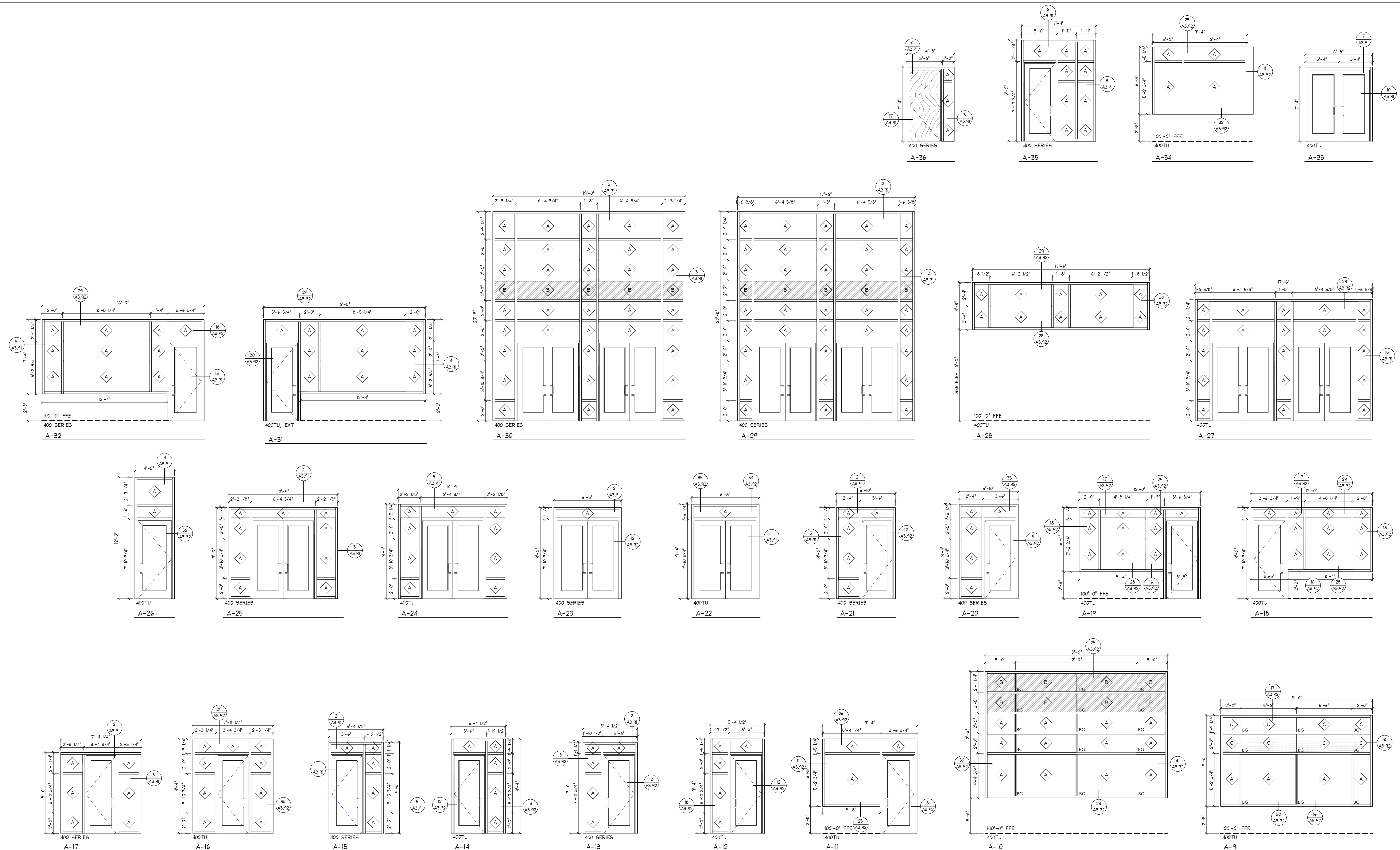


1 AREA D ENLARGED PLAN
SCALE: 1/8" = 1'-0"



ROOM FINISH SCHEDULE

	ROOM NAME	FLOOR				WALLS				CEILING				REMARKS		
		MAT.	FINISH	BASE	FINISH	NORTH	EAST	SOUTH	WEST	MAT.	FINISH	SOFFIT	HGT.			
100	GENERAL OFFICE	-	-	-	-	GWB	P	CHU	P	GWB	P	-	9'-0"			
100A	CONFERENCE	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-4"			
100B	PRINCIPAL	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-4"			
100C	ASST. PRINCIPAL	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-4"			
100D	ITINERANT STAFF	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-4"			
100E	TBA	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
100F	SOCIAL WORKER	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
100G	COUNSELOR OFFICE	-	-	-	-	GWB/CHU	P	GWB	P	GWB/CHU	P	ACT	9'-0"			
100H	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
100I	FILE STORAGE	-	-	-	-	GWB	P	GWB	P	GWB	P	-	9'-0"			
100J	TRIUNYAN	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
100K	TRIUNYAN	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
100L	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
101	CONFERENCE ROOM	-	-	-	-	CHU	BMU	CHU	BMU	CHU	BMU	ACT	9'-0"			
102	NURSE/SICK	-	-	-	-	GWB	P	GWB/CHU	P	GWB	P	ACT	9'-0"			
102A	NURSE OFFICE	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
102B	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
102C	TOILET	-	-	-	-	GWB	P	CHU	BMU	GWB	P	ACT	9'-0"			
103	STAFF LOUNGE	-	-	-	-	CHU	BMU	GWB/CHU	P	GWB	P	ACT	9'-0"			
104	CAFETERIA	-	-	-	-	CHU & BMU & P	-	GWB & BMU & P	-	-	ACT	GWB	16'-10" 1/2"	BMU COLUMN WRAPS, SEE P1/A0.6		
105	BOYS	-	-	-	-	CHU	BMU	CHU	BMU	CHU	BMU	ACT	9'-0"			
105A	RESTROOM VESTIBULE	-	-	-	-	CHU	BMU	CHU	BMU	CHU	BMU	ACT	9'-0"			
106	GIRLS	-	-	-	-	CHU	BMU	CHU	BMU	CHU	BMU	ACT	9'-0"			
107	FAMILY ASSIST	-	-	-	-	GWB/CHU	P	GWB/CHU	P	GWB/CHU	P	ACT	9'-0"			
108	HEALTH CLASSROOM	-	-	-	-	CHU	P	CHU	P	CHU	P	ACT	10'-0"			
109	NORTH GYMNASIUM	-	-	-	-	CHU	P	CHU	P	CHU	P	-	GWB	35'-0"		
109A	PE OFFICE	-	-	-	-	CHU	P	CHU	P	CHU	P	ACT	9'-0"			
109B	PE STORAGE	-	-	-	-	CHU	P	CHU	P	CHU	P	-	15'-4"			
110	MUSIC LEARNING CENTER	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	11'-0"			
110A	STORAGE	-	-	-	-	CHU	P	CHU	P	CHU	P	ACT	10'-0"			
111	SOUTH GYMNASIUM	-	-	-	-	CHU	P	CHU	P	CHU	P	-	GWB	30'-8"		
112	MUSIC LEARNING CENTER	-	-	-	-	GWB	P	CHU	P	GWB	P	ACT	11'-0"			
113	PE STORAGE	-	-	-	-	CHU	P	CHU	P	CHU	P	-	15'-4"			
114	ART CLASSROOM	-	-	-	-	CHU	P	CHU	P	CHU	P	ACT	11'-0"			
114A	KILN	-	-	-	-	CHU	P	CHU	P	CHU	P	ACT	10'-0"			
114B	STORAGE	-	-	-	-	CHU	P	CHU	P	CHU	P	ACT	10'-0"			
115	SERVING/KITCHEN	-	-	-	-	GWB-HR	P	GWB-HR	P	GWB-HR	P	ACT	GWB-HR	MOISTURE RESISTANT GNB, SEE P3/A0.6		
115A	DISH ROOM	-	-	-	-	CHU	P	GWB-HR	P	CHU	P	ACT	10'-0"	MOISTURE RESISTANT GNB, SEE P3/A0.6		
115B	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
115C	OFFICE	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
115D	DRY STORAGE	-	-	-	-	GWB	P	CHU	P	CHU	P	-	9'-0"			
115E	COOLER	-	-	-	-	CHU	P	CHU	P	CHU	P	-	10'-0"			
115F	FREEZER	-	-	-	-	CHU	P	CHU	P	CHU	P	-	10'-0"			
116	MOTHER'S ROOM	-	-	-	-	GWB	P	GWB	P	CHU	P	ACT	9'-0"			
116A	CUST.	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
117	RECEIVING	-	-	-	-	CHU	P	CHU	P	CHU	P	-	16'-10" 1/2"			
117A	ELECTRICAL SERVICE	-	-	-	-	CHU	P	CHU	P	CHU	P	-	16'-10" 1/2"			
117B	HEATING PLANT/BOILERS	-	-	-	-	CHU	P	CHU	P	CHU	P	-	16'-10" 1/2"			
118	CUSTODIAL STORAGE/SHOP	-	-	-	-	CHU	P	CHU	P	CHU	P	-	16'-10" 1/2"			
118A	CUST. OFFICE	-	-	-	-	CHU	P	CHU	P	CHU	P	ACT	9'-0"			
119	KINDERGARTEN ACTIVE LEARNING	-	-	-	-	GWB	P	GWB/CHU	BMU/P	CHU	BMU	GWB/CHU	BMU/P	ACT	GWB	9'-0"
120	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB/CHU	P	GWB	P	ACT	9'-6"	
120A	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
121	LSS	-	-	-	-	GWB	P	GWB	P	GWB/CHU	P	GWB/CHU	P	ACT	9'-0"	
122	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
122A	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
123	STORAGE	-	-	-	-	CHU	BMU	GWB	P	GWB	P	ACT	9'-0"			
124	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
124A	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
125	STAFF PREP	-	-	-	-	GWB	P	CHU	BMU	GWB	P	ACT	9'-0"			
126	STAIR	-	-	-	-	CHU	BMU	CHU	BMU	GWB	P	CHU	BMU	-	24'-2" 1/2"	
127	CUST.	-	-	-	-	CHU	BMU	GWB	P	CHU	BMU	ACT	11'-3" 7/16"			
128	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
128A	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
129	SPEECH	-	-	-	-	GWB	P	CHU	BMU	GWB	P	ACT	9'-0"			
130	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
130A	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
131	TOILET	-	-	-	-	GWB	P	GWB	P	CHU	BMU	ACT	9'-0"			
132	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB/CHU	P	GWB	P	ACT	9'-6"	
132A	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
133	LSS	-	-	-	-	GWB	P	GWB/CHU	P	GWB/CHU	P	ACT	10'-0"			
134	SOCIAL SKILLS THERAPY	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
135	SOCIAL SKILLS THERAPY	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
136	CORR.	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
136F	EBD	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
136A	MRC	-	-	-	-	GWB/CHU	P	GWB/CHU	P	GWB	P	ACT	9'-0"			
136B	LSS STORAGE	-	-	-	-	GWB	P	CHU	BMU	GWB	P	ACT	9'-0"			
136C	SENSORY ROOM	-	-	-	-	GWB	P	CHU	BMU	GWB	P	ACT	9'-0"			
136D	LSS/MOTOR SKILLS	-	-	-	-	GWB	P	GWB	P	GWB/CHU	P	GWB	P	ACT	10'-0"	
136E	LSS/DCD	-	-	-	-	GWB	P	GWB	P	GWB/CHU	P	GWB	P	ACT	10'-0"	
136F 1	STAFF TOILET	-	-	-	-	GWB/CHU	P	GWB	P	GWB	P	ACT	GWB	9'-0"		
136F 2	CALMING	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
136G	CALMING	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
136H	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
136I	TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
137	ELL	-	-	-	-	GWB/CHU	P	GWB	P	GWB	P	ACT	9'-0"			
137A	ELL	-	-	-	-	GWB/CHU	P	GWB	P	GWB	P	ACT	9'-0"			
138	LSS/EBD	-	-	-	-	GWB	P	GWB	P	GWB/CHU	P	GWB/CHU	P	ACT	10'-0"	
138A	CALMING	-	-	-	-	GWB	P	GWB	P	GWB/CHU	P	GWB/CHU	P	ACT	9'-0"	
138B	CALMING	-	-	-	-	GWB	P	GWB	P	GWB/CHU	P	GWB/CHU	P	ACT	9'-0"	
138C	PSYCH.	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
138D	CONFERENCE	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
138E	WORK ROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
140	INSTRUCTIONAL MEDIA	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	GWB	22'-6"		
140A	STAFF GROUP CONFERENCE	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	11'-0"			
140B	OFFICE	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	11'-0"			
140C	WORK ROOM / COPIER	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	11'-0"			
140D	CIRCULATION	-	-	-	-	GWB	P	GWB	P	-	-	ACT	GWB	12'-0"		
141	COMPUTER LAB	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
142	SHINING CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
143	MECHANICAL	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	14'-2" 1/2"			
144	TECH HUB	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
144A	DATA	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
145	SPEECH	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	10'-0"			
146	LOCKER BAY	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	GWB	9'-6"		
147	CORR.	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
147A	CUST.	-	-	-	-	GWB	P	GWB	P	CHU	BMU	ACT	9'-0"			
147B	TOILET	-	-	-	-	GWB	P	GWB	P	CHU	BMU	ACT	9'-0"			
147C	STORAGE	-	-	-	-	GWB	P	CHU	BMU	GWB	P	-	9'-0"			
147D	TEACHER PREP	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-0"			
147E	STORAGE	-	-	-	-	CHU	BMU	GWB	P	GWB	P	-	9'-0"			
148	GENDER NEUTRAL TOILET	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
149	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
150	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
151	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
152	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
153	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
154	CLASSROOM	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
155	MAKER LAB	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
156	3RD GRADE ACTIVE LEARNING	-	-	-	-	GWB	P	CHU	BMU	GWB	P	ACT	GWB	18'-0"		
157	BOYS	-	-	-	-	CHU	BMU	CHU	BMU	CHU	BMU	ACT	9'-0"			
157A	RESTROOM VESTIBULE	-	-	-	-	CHU	BMU	CHU	BMU	CHU	BMU	ACT	9'-0"			
158	GIRLS	-	-	-	-	CHU	BMU	CHU	BMU	CHU	BMU	ACT	9'-0"			
160	LSS	-	-	-	-	GWB	P	GWB	P	GWB	P	ACT	9'-6"			
16																



ALUM. FRAMING NOTES:

- 1 GLASS TYPES ARE LABELED BY LETTERS A, B, C, D WHICH CORRESPOND W/ TYPE AS SCHEDULED IN SPECIFICATIONS SECTION 08 8000 - GLASS & GLAZING

- 2 1" CLEAR INSULATED GLAZING
3 1" FROSTED INSULATED GLAZING
4 1" SPANDREL GLASS WITH FULL THICKNESS INSULATION BACK
5 1/4" CLEAR FLOAT GLASS

ALL GLASS SHALL BE TYPE 'A' UNLESS OTHERWISE NOTED (UCN)
ALL GLASS SHALL BE SAFETY GLAZING WHERE REQUIRED BY BUILDING CODES & AS INDICATED

- 6 CURTAINWALL LEGEND:
BC BUTT GLAZING

- 7 INTERIOR OF SPANDREL GLASS TO RECEIVE 1/8" UNFINISHED ALUMINUM PANEL OVER FULL THICKNESS RIGID INSULATION AT HIDDEN/EXPOSED LOCATIONS

- 8 SEE TO INCLUDE ALL LABOR AND MATERIALS TO PROVIDE STRUCTURAL STEEL REINFORCING AND CLIPS AS REQUIRED TO REINFORCE THE ALUMINUM FRAMING SYSTEMS AND TO PROPERLY SECURE IT TO THE BUILDING STRUCTURAL FRAME

- 9 ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF FRAMES AND SISING OF GLAZING UNITS

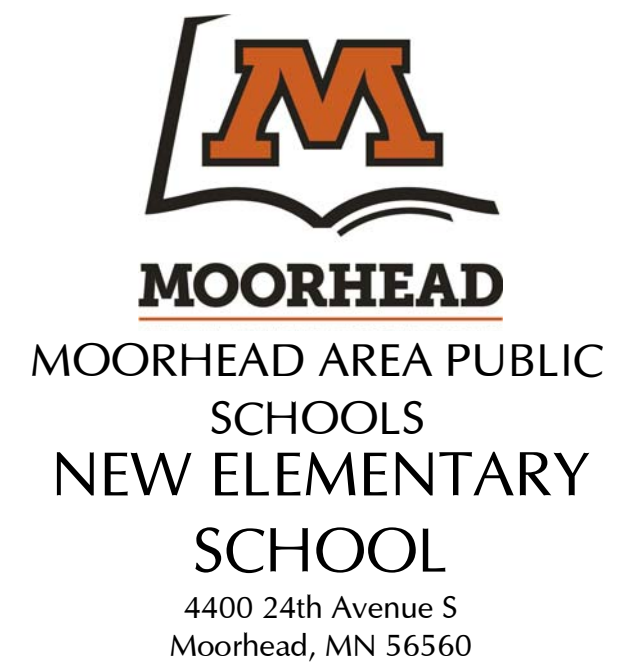
- 10 BASIS OF DESIGN IS TUBELITE, SEE FRAME TYPES FOR PRODUCT SELECTION AND SPECIFICATIONS FOR SUBSTITUTIONS

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

BID GROUP I

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 Architect under the laws of the State of Minnesota.

Print Name: Brian S. Berg
Signature: *Brian S. Berg*
Date: 04-07-2016 Registration No. 41686



ALUMINUM FRAME ELEVATIONS

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- 1 GLASS TYPES ARE LABELED BY LETTERS A, B, C, D WHICH CORRESPOND W/ TYPE AS SCHEDULED IN SPECIFICATIONS SECTION 08 8000 - GLASS & GLAZING

- 2 1" CLEAR INSULATED GLAZING
- 3 1" FROSTED INSULATED GLAZING
- 4 1" SPANDREL GLASS WITH FULL THICKNESS INSULATION BACK
- 5 1/4" CLEAR FLAT GLASS

ALL GLASS SHALL BE TYPE 'A' UNLESS OTHERWISE NOTED (UON)
ALL GLASS SHALL BE SAFETY GLAZING WHERE REQUIRED BY BUILDING CODES & AS INDICATED

- 6 CURTAINWALL LEGEND:
===== BUTT GLAZING
RG

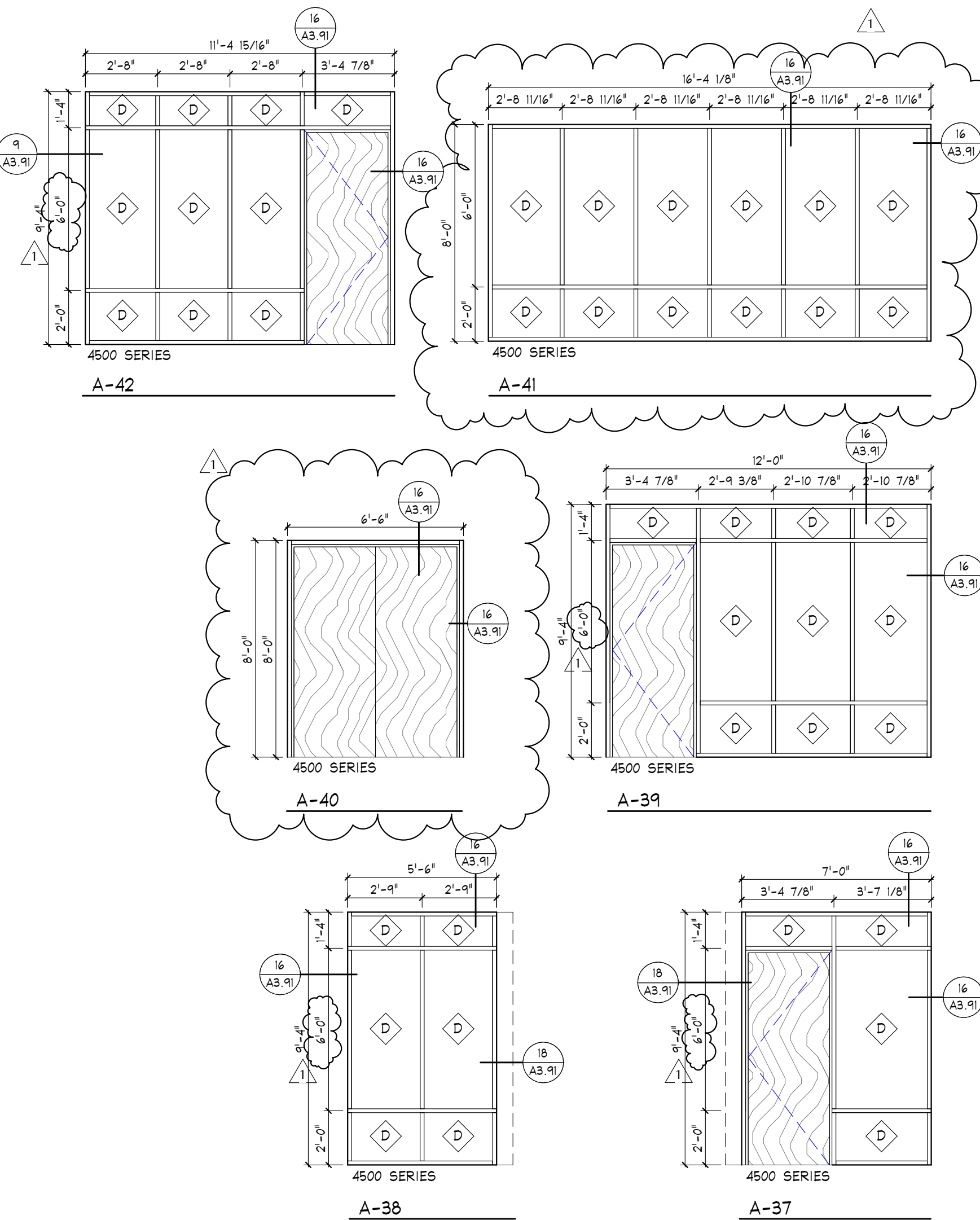
- 7 INTERIOR OF SPANDREL GLASS TO RECEIVE 1/8" UNFINISHED ALUMINUM PANEL OVER FULL THICKNESS RIGID INSULATION AT HIDDEN/EXPOSED LOCATIONS

- 8 BE TO INCLUDE ALL LABOR AND MATERIALS TO PROVIDE STRUCTURAL STEEL REINFORCING AND GLIPS AS REQUIRED TO REINFORCE THE ALUMINUM FRAMING SYSTEMS AND TO PROPERLY SECURE IT TO THE BUILDING STRUCTURAL FRAME

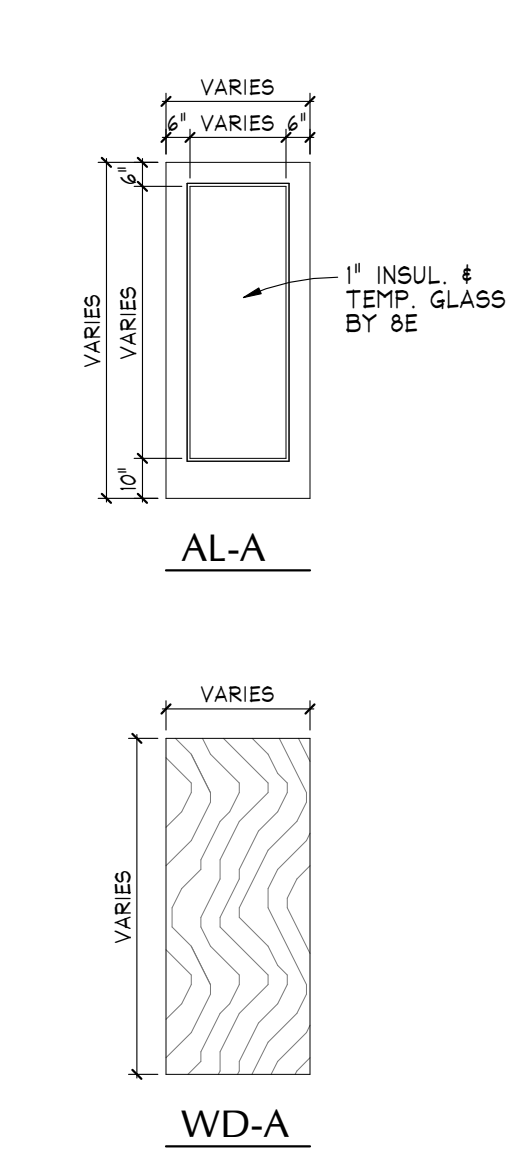
- 9 ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF FRAMES AND SIZING OF GLAZING UNITS

- 10 BASIS OF DESIGN IS TUBELITE. SEE FRAME TYPES FOR PRODUCT SELECTION AND SPECIFICATIONS FOR SUBSTITUTIONS

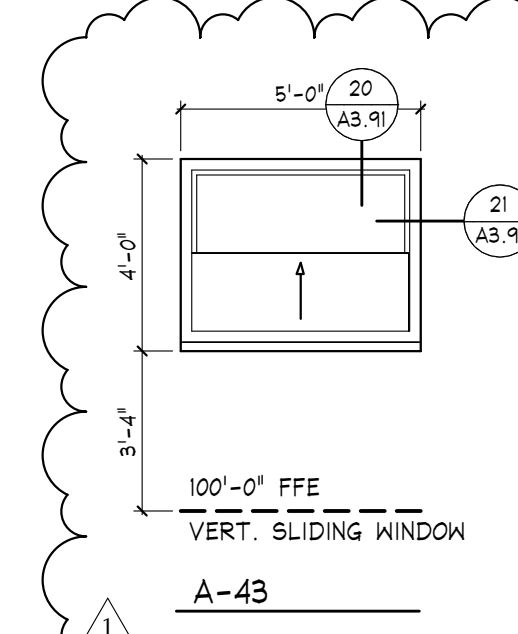
ALUMINUM FRAME TYPES - STOREFRONT 4500 SERIES (1 3/4" X 4 1/2")



DOOR PANEL TYPES



ALUMINUM - MISC. OPENINGS

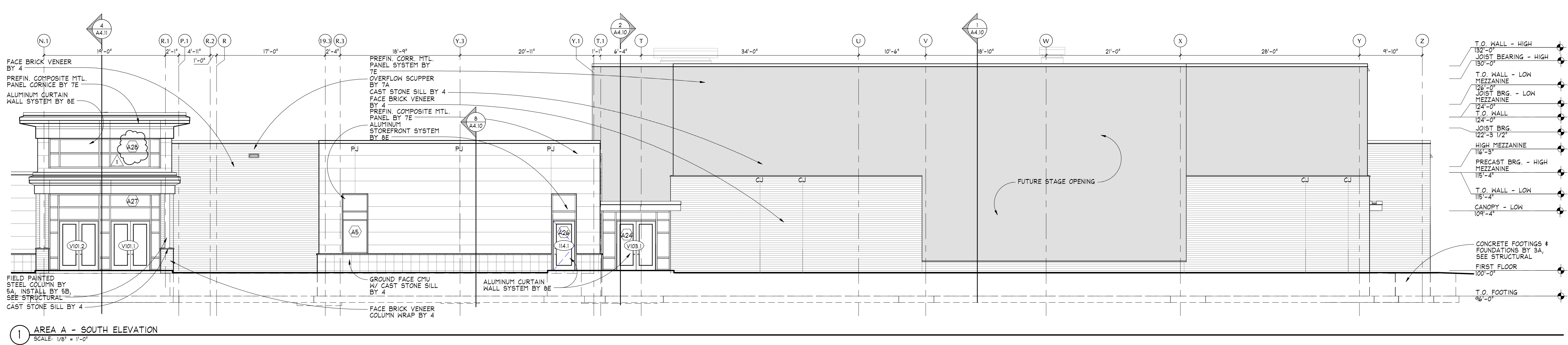
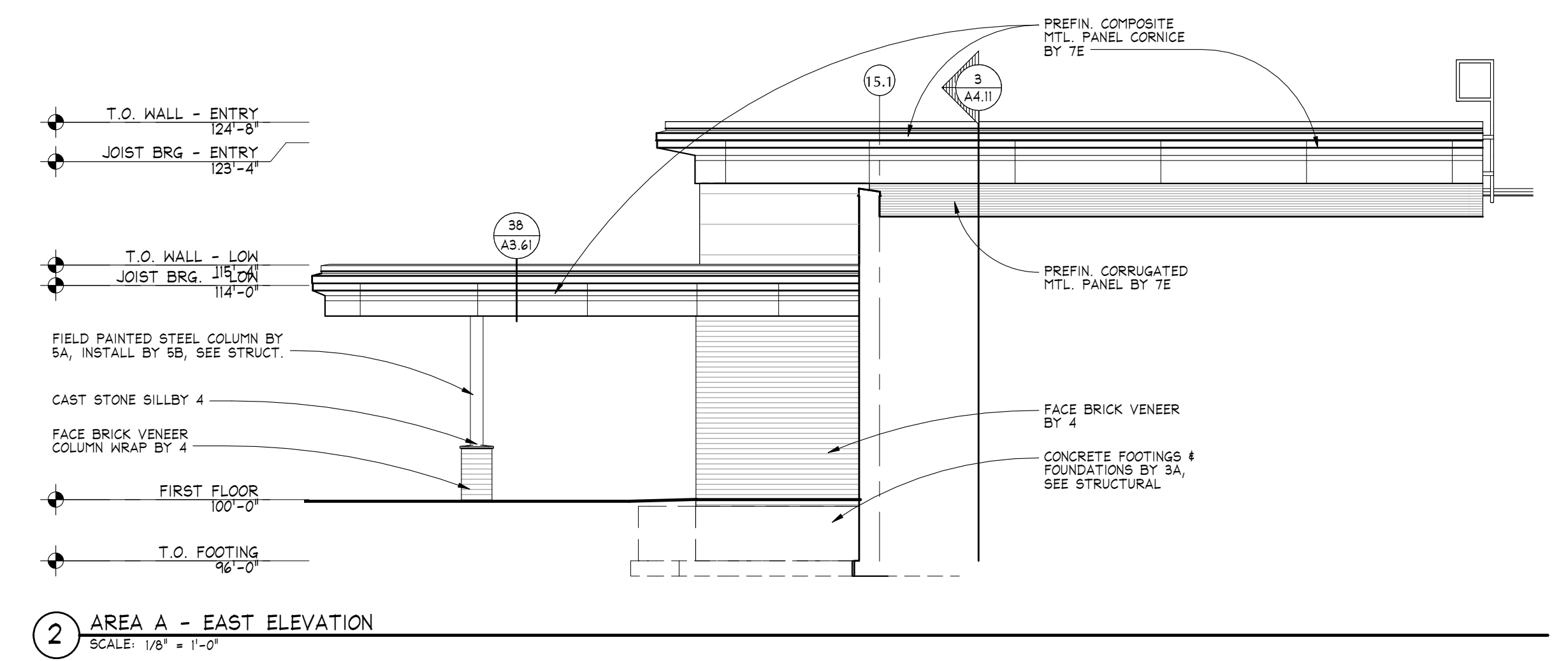
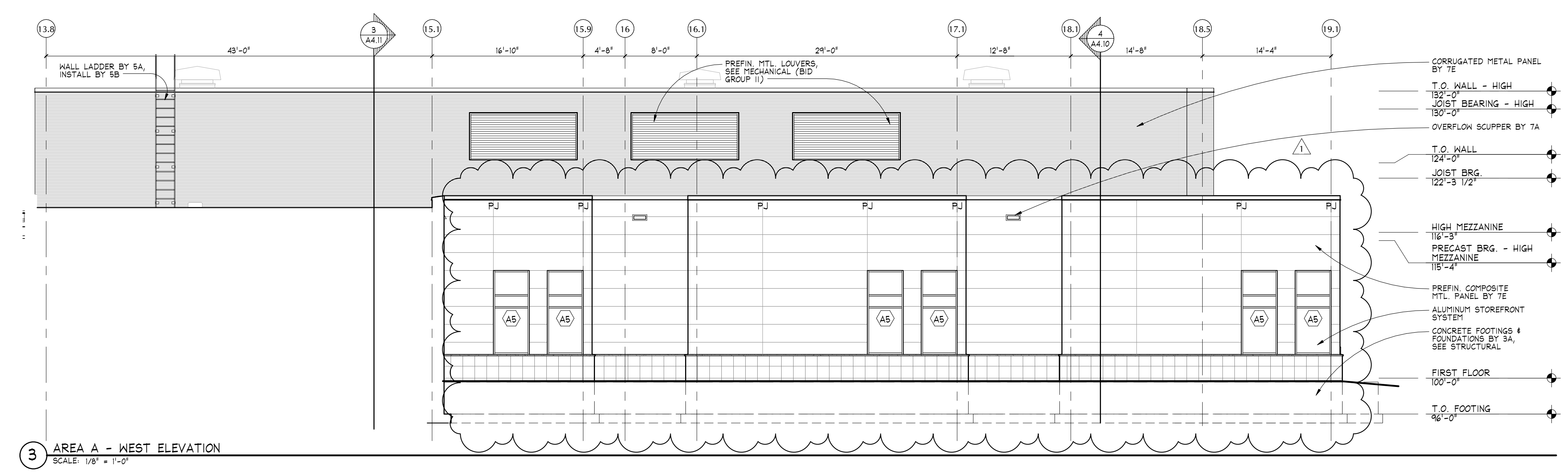
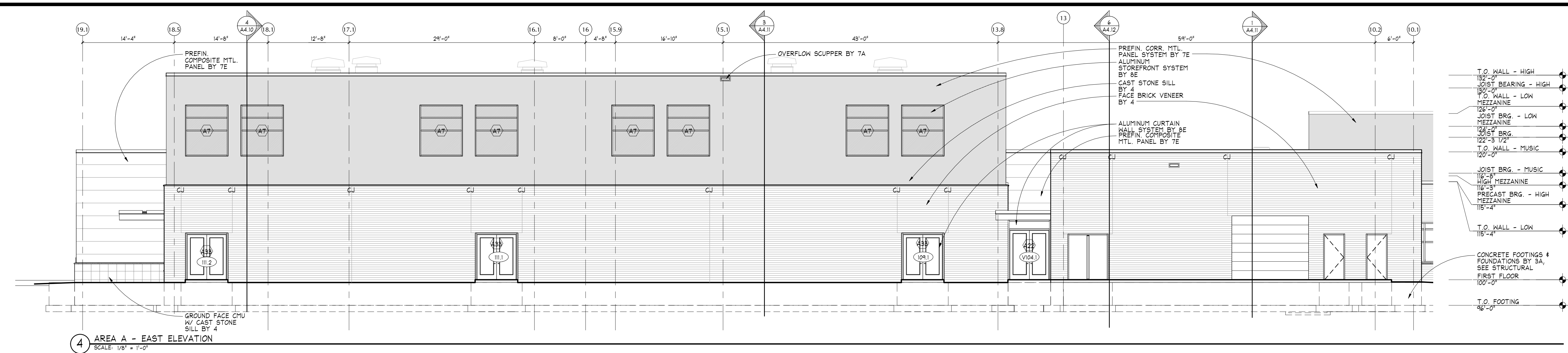


ALUMINUM DOOR SCHEDULE

DOOR NUMBER	ENTRY ID NUMBER	PANEL COUNT	PANEL SPECIFICATIONS				GLASS	RATING	FRAME SPECIFICATIONS				WIDTH	TIME LOCK	AUTO. OPENER	ELECTRICAL SPECIFICATIONS			HARDWARE GROUP	REMARKS
			HEIGHT	DEPTH	PANEL TYPE				FRAME TYPE	GLASS	HEAD	JAMB				C.A.R.	D.F.S.	MAG. H. O.		
104.1	2	(1)	3'-3 3/4"	7'-8 3/4"	AL-A	1" INSUL.	-	A-26	1" INSUL.	14/A3 91	35/A3 92	6"						9		
104.2	24	(2)	3'-0 1/8"	7'-8 1/8"	WD-A	1" INSUL.	-	A-40	1/4" SAFETY	16/A3 91	16/A3 91	4 1/2"						08.1	WOOD DOOR IN BID PACKAGE 2	
106.1	22	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-32	1" INSUL.	29/A3 92	5/A3 92	6"						8		
106.1	-	(1)	3'-0"	7'-10"	WD-A	-	-	A-37	1/4" SAFETY	16/A3 91	18/A3 91	4 1/2"						2	WOOD DOOR IN BID PACKAGE 2	
106.1	27	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-32	1" INSUL.	29/A3 92	13/A3 92	6"						8		
106.1	22	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-32	1" INSUL.	29/A3 92	13/A3 92	6"						8		
V109.2	-	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-15	1" INSUL.	2/A3 91	5/A3 91	6"						5		
V109.1	28	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-12	1" INSUL.	35/A3 92	12/A3 92	6"						8		
V109.2	-	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-15	1" INSUL.	2/A3 91	12/A3 92	6"						5		
VIII.1	23	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-12	1" INSUL.	35/A3 92	12/A3 92	6"						8		
VIII.2	-	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-13	1" INSUL.	2/A3 91	12/A3 92	6"						5		
VII.2	-	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-15	1" INSUL.	2/A3 91	11/A3 91	6"						5		
V101.1	1	(2)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-27	1" INSUL.	29/A3 92	15/A3 91	6"						10		
V101.2	1	(2)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-27	1" INSUL.	29/A3 92	15/A3 91	6"						13		
V103.1	8	(2)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-24	1" INSUL.	35/A3 92	11/A3 91	6"						1		
V103.2	-	(2)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-25	1" INSUL.	2/A3 91	5/A3 91	6"						7		
V104.2	-	(2)	3'-0 3/8"	7'-8 3/8"	AL-A	1" INSUL.	-	A-23	1" INSUL.	2/A3 91	12/A3 91	6"						6		
V105.2	-	(2)	3'-0 3/8"	7'-8 3/8"	AL-A	1" INSUL.	-	A-23	1" INSUL.	2/A3 91	12/A3 91	6"						6		
100.1	-	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-35	1" INSUL.	6/A3 91	3/A3 91	6"						2		
101.1	-	(1)	3'-0"	7'-0 3/8"	WD-A	-	-	A-36	1" INSUL.	6/A3 91	17/A3 91	6"						2	WOOD DOOR IN BID PACKAGE 2	
101.2	-	(1)	3'-0"	7'-0 3/8"	WD-A	-	-	A-36	1" INSUL.	6/A3 91	17/A3 91	6"						3	WOOD DOOR IN BID PACKAGE 2	
108.1	6	(2)	3'-0 3/8"	7'-0 3/8"	AL-A	1" INSUL.	-	A-33	1" INSUL.	7/A3 91	10/A3 91	6"						15		
108.1	5	(2)	3'-0 3/8"	7'-0 3/8"	AL-A	1" INSUL.	-	A-33	1" INSUL.	7/A3 91	10/A3 91	6"						15		
108.2	4	(2)	3'-0 3/8"	7'-0 3/8"	AL-A	1" INSUL.	-	A-33	1" INSUL.	7/A3 91	10/A3 91	6"						15		
120.1	12	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-19	1" INSUL.	17/A3 92	18/A3 92	6"						9		
122.1	13	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-18	1" INSUL.	17/A3 92	18/A3 92	6"						9		
124.1	14	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-18	1" INSUL.	17/A3 92	18/A3 92	6"						9		
126.1	16	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-19	1" INSUL.	17/A3 92	18/A3 92	6"						9		
130.1	17	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-19	1" INSUL.	17/A3 92	18/A3 92	6"						9		
132.1	18	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-18	1" INSUL.	17/A3 92	18/A3 92	6"						9		
40A	-	(1)	3'-0"	7'-10"	WD-A	-	-	A-39	1/4" SAFETY	16/A3 91	16/A3 91	4 1/2"						-	WOOD DOOR IN BID PACKAGE 2	
40B	-	(1)	3'-0"	7'-10"	WD-A	-	-	A-42	1/4" SAFETY	16/A3 91	16/A3 91	4 1/2"						-	WOOD DOOR IN BID PACKAGE 2	
155.1	26	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-31	1" INSUL.	29/A3 92	30/A3 92	6"						8		
204.1	21	(1)	3'-0 3/4"	7'-8 3/8"	AL-A	1" INSUL.	-	A-31	1" INSUL.	29/A3 92	30/A3 92	6"						8		
V102.1	-	(2)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-24	1" INSUL.	2/A3 91	12/A3 91	6"						16		
V102.2	-	(2)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-24	1" INSUL.	2/A3 91	12/A3 91	6"						7		
V102.3	-	(2)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-30	1" INSUL.	2/A3 91	3/A3 91	6"						11		
V102.4	-	(2)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-30	1" INSUL.	2/A3 91	3/A3 91	6"						14		
V104.1	7	(2)	3'-0 3/8"	7'-8 3/8"	AL-A	1" INSUL.	-	A-22	1" INSUL.	34/A3 91	11/A3 91	6"						12		
V105.1	11	(2)	3'-0 3/8"	7'-8 3/8"	AL-A	1" INSUL.	-	A-22	1" INSUL.	34/A3 91	11/A3 91	6"						12		
V106.1	15	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-20	1" INSUL.	33/A3 91	5/A3 92	6"						6		
V106.2	-	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-21	1" INSUL.	2/A3 91	12/A3 91	6"						5		
V107.1	29	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-16	1" INSUL.	29/A3 92	30/A3 92	6"						8		
V107.2	-	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-17	1" INSUL.	2/A3 91	5/A3 91	6"						4		
V101.1	19	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-16	1" INSUL.	29/A3 92	5/A3 92	6"						8		
V10.2	-	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-17	1" INSUL.	2/A3 91	5/A3 91	6"						4		
V108.1	25	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-14	1" INSUL.	36/A3 92	18/A3 92	6"						8		
V112.1	20	(1)	3'-0"	7'-8 3/8"	AL-A	1" INSUL.	-	A-14	1" INSUL.	36/A3 92	12/A3 92	6"						8		

EXTERIOR ELEVATION KEY

- 4'x12'x16' FACEBRICK VENEER, THIRD BOND COURSING
- 16'x16'x4' GROUND FACE CMU VENEER, HALF BOND COURSING
- HORIZONTAL PREFINISHED CORRUGATED METAL PANEL
- HORIZONTAL PREFINISHED COMPOSITE METAL PANEL
- CONTROL JOINT
- PANEL JOINT



Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

BID GROUP 1

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 Architect under the laws of the State of Minnesota.

Print Name: Brian S. Berg
Signature: *Brian S. Berg*
Date: 04-07-2016 Registration No. 41686

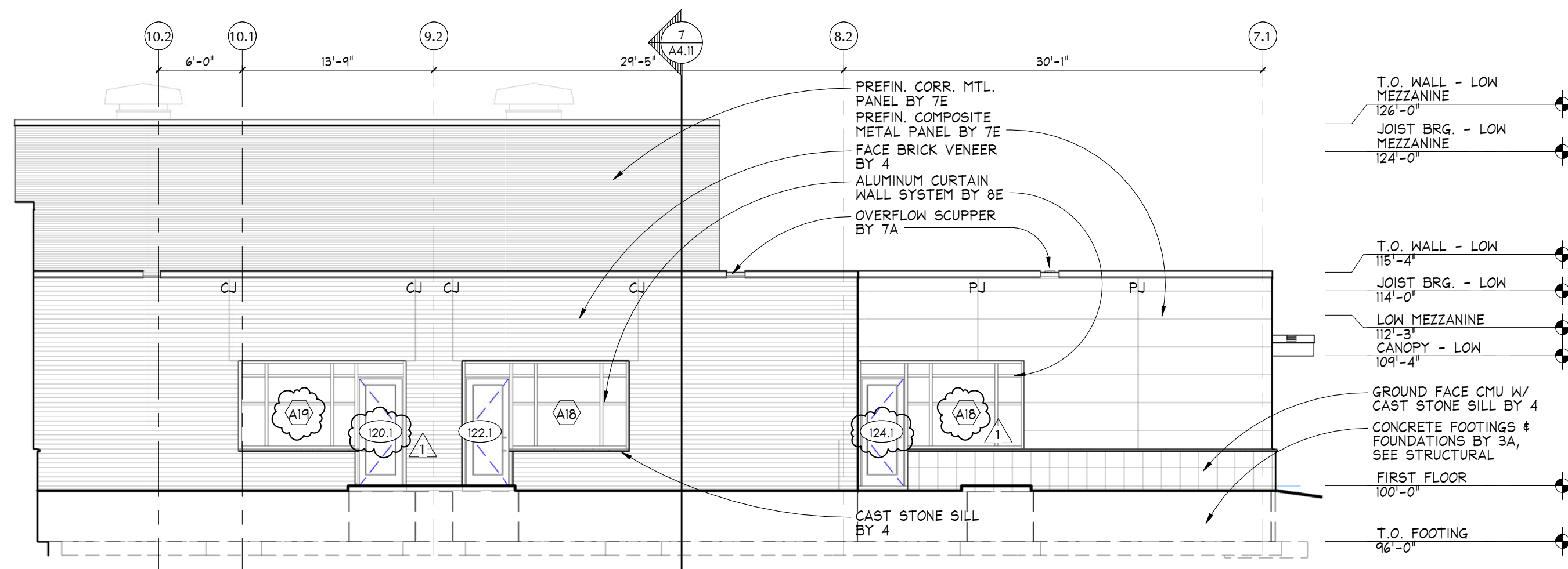


MOORHEAD AREA PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

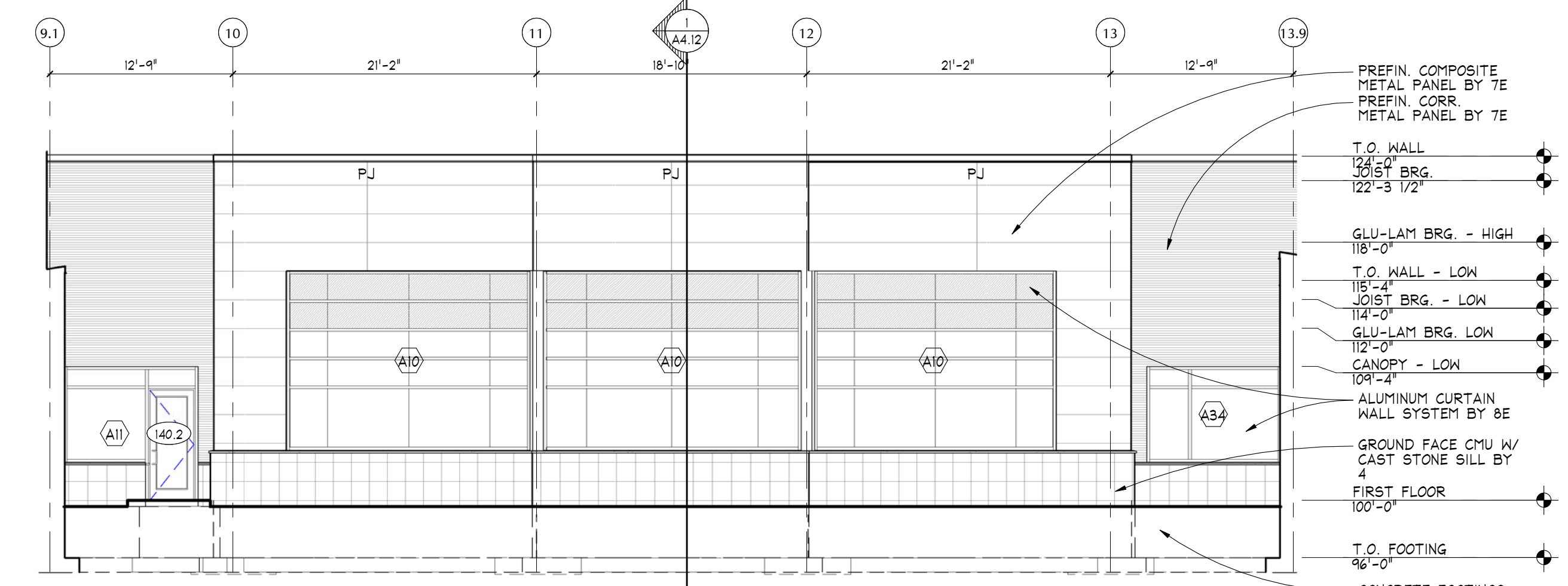
AREA A EXTERIOR ELEVATIONS

EXTERIOR ELEVATION KEY

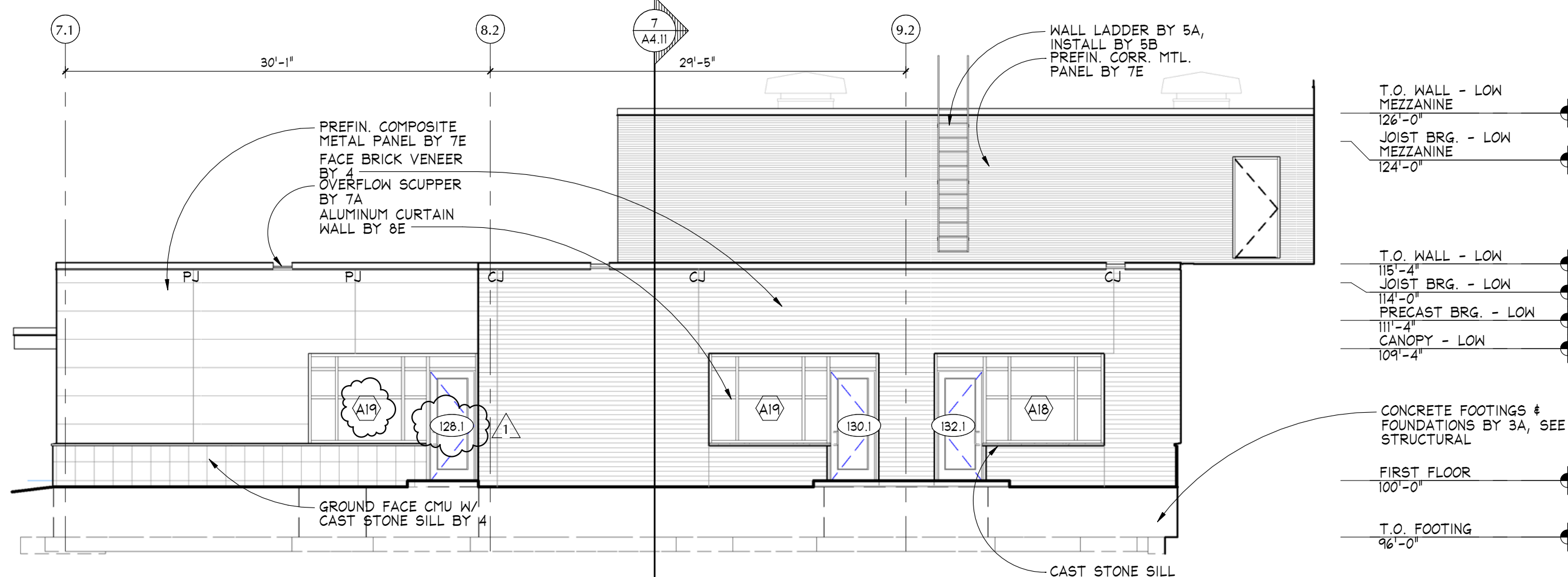
- 4'x12'x2 1/4' FACEBRICK VENEER, THIRD BOND COURSING
- 16'x16'x4' GROUND FACE CMU VENEER, HALF BOND COURSING
- HORIZONTAL PREFINISHED CORRUGATED METAL PANEL
- HORIZONTAL PREFINISHED COMPOSITE METAL PANEL
- CONTROL JOINT
- PANEL JOINT



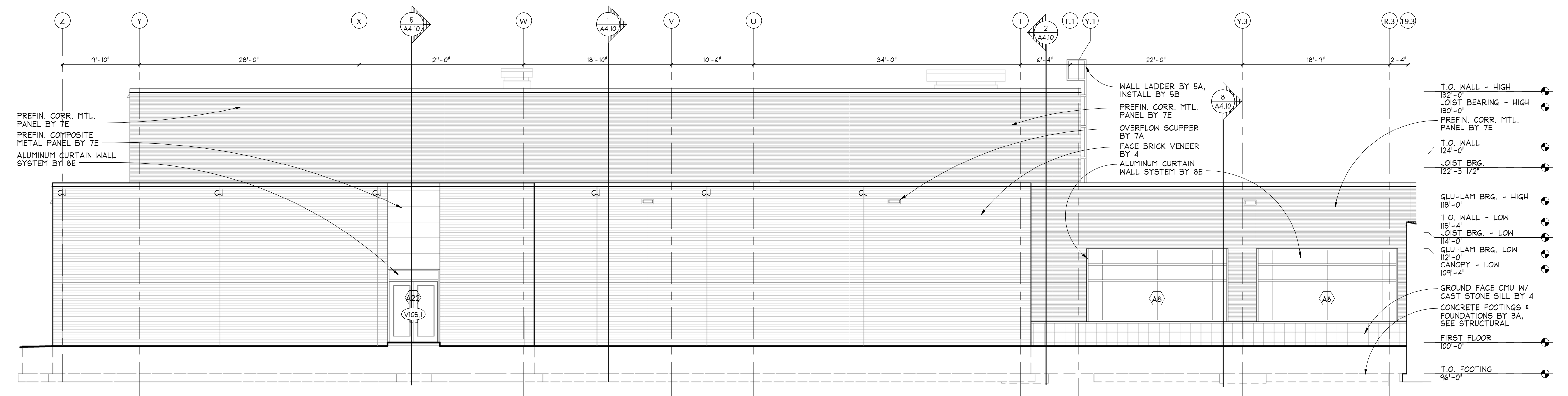
6 AREA B - EAST ELEVATION
SCALE: 1/8" = 1'-0"



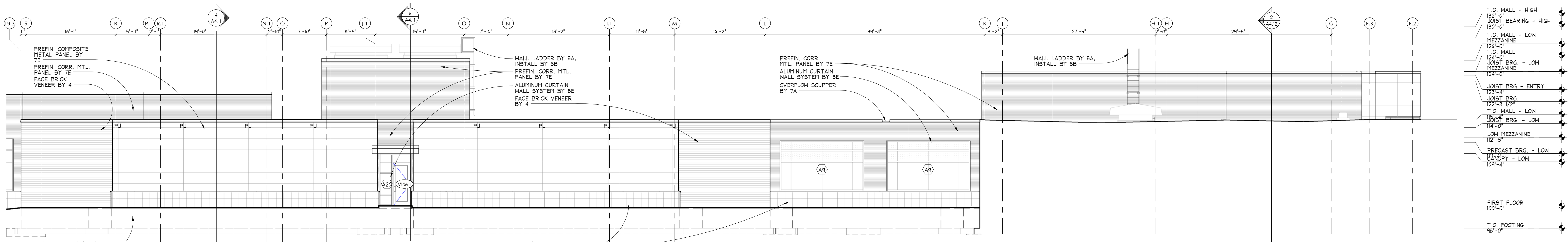
5 AREA B - WEST ELEVATION
SCALE: 1/8" = 1'-0"



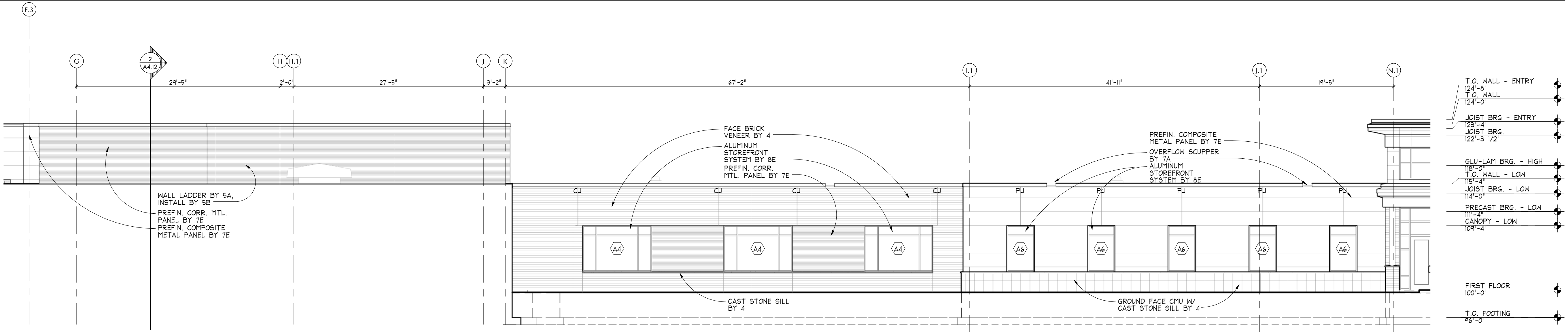
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SCALE: 1/8" = 1'-0"



3 AREA A - NORTH ELEVATION
SCALE: 1/8" = 1'-0"



2 AREA B - NORTH ELEVATION
SCALE: 1/8" = 1'-0"



1 AREA B - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

BID GROUP I

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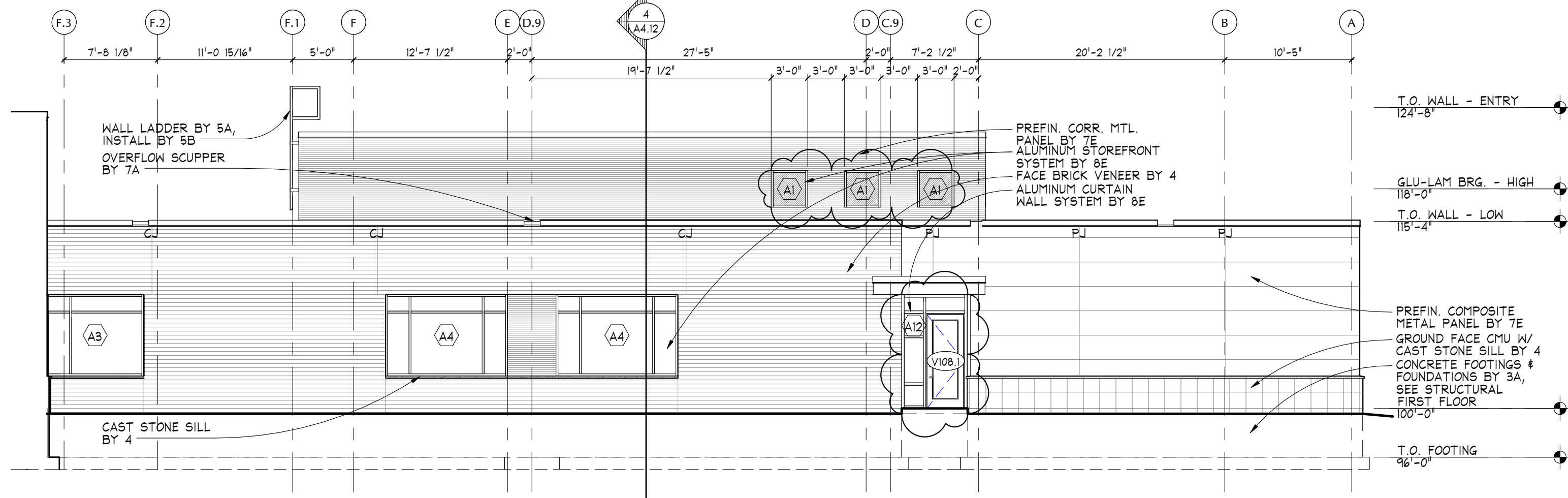
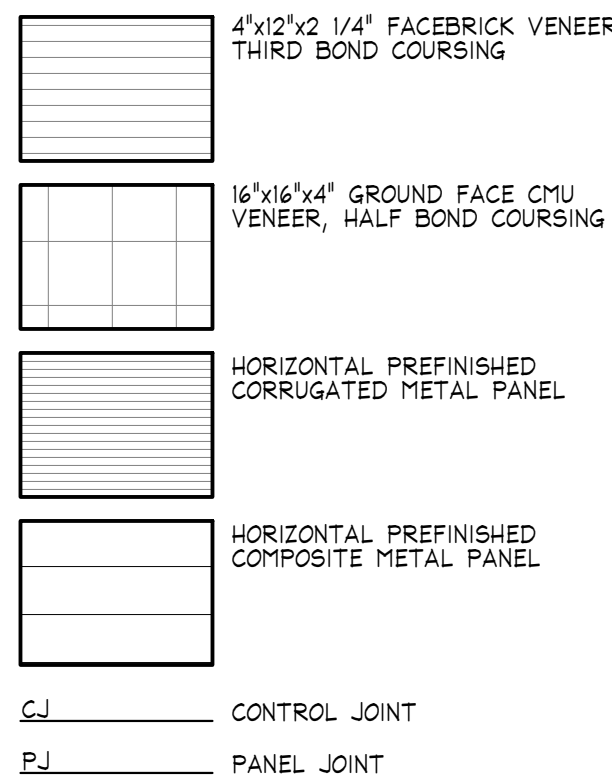
Print Name: Brian S. Berg
Signature: *B.S. Berg*
Date: 04-07-2016 Registration No. 41686



MOORHEAD AREA PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

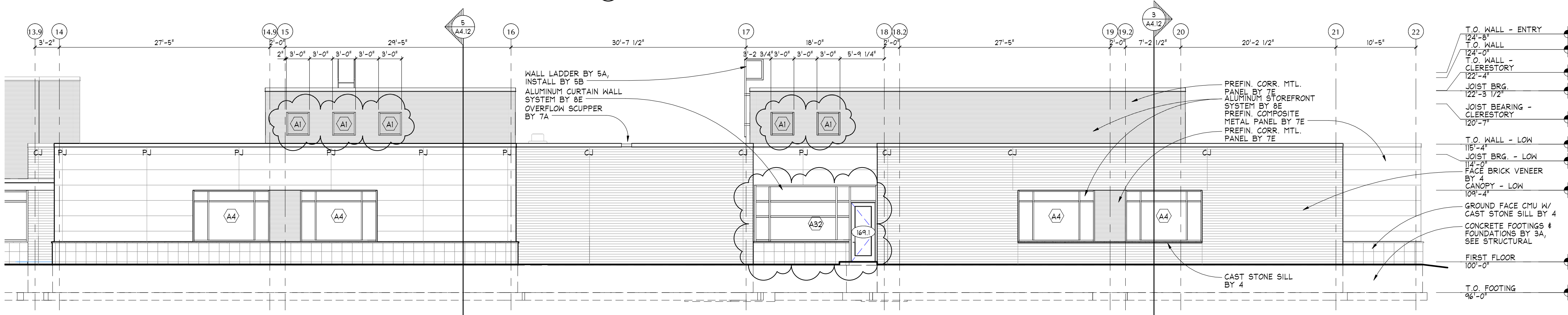
AREA B & C EXTERIOR ELEVATIONS

EXTERIOR ELEVATION KEY



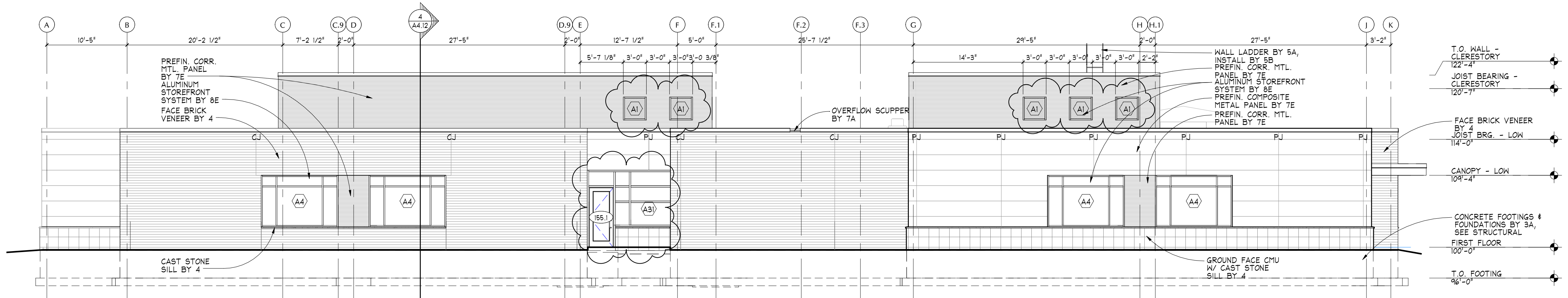
5 AREA D - NORTH ELEVATION (AREA C MIRR.)

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



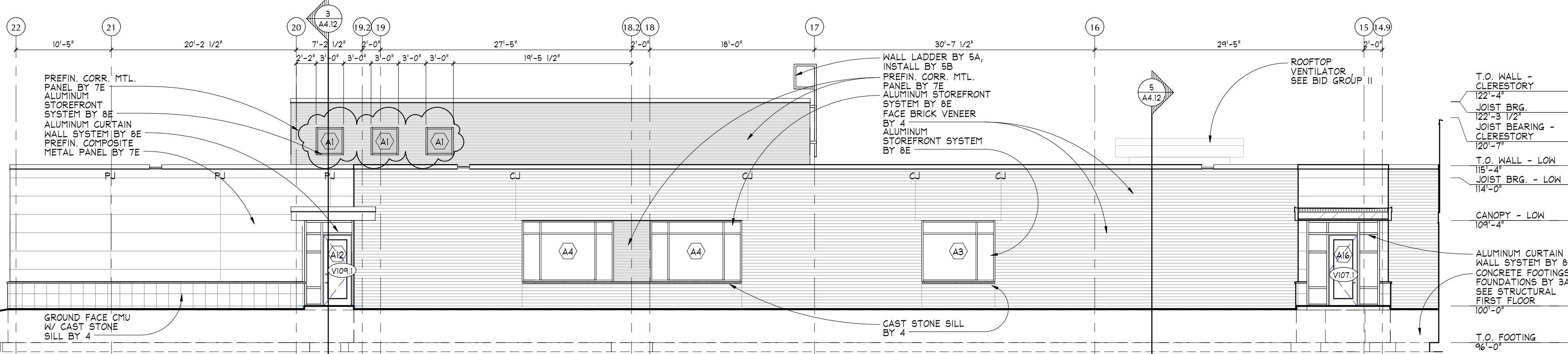
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SCALE: 1/8" = 1'-0"



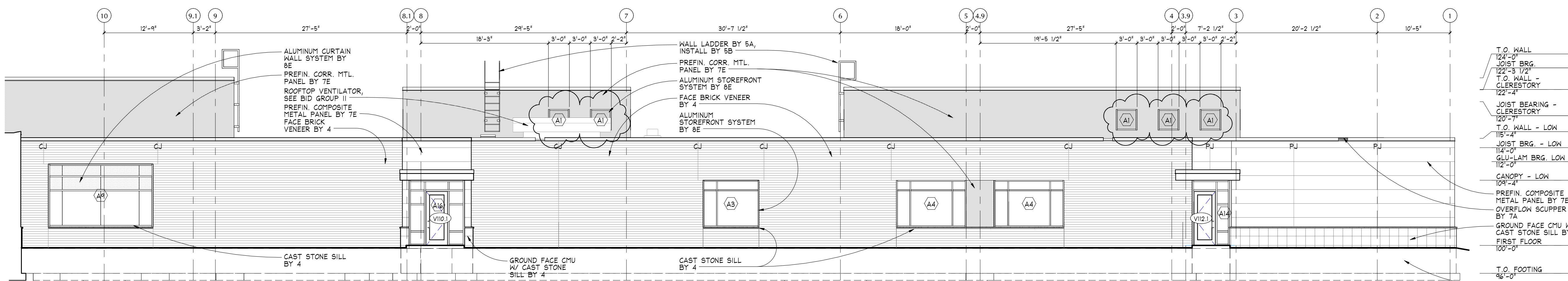
3 AREA D - SOUTH ELEVATION (AREA C MIRR.)

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



2 AREA D - EAST ELEVATION

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



1 AREA C - EAST ELEVATION

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

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

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Signature: *B. S. Berg*
Date: 04-07-2016 Registration No. 41686

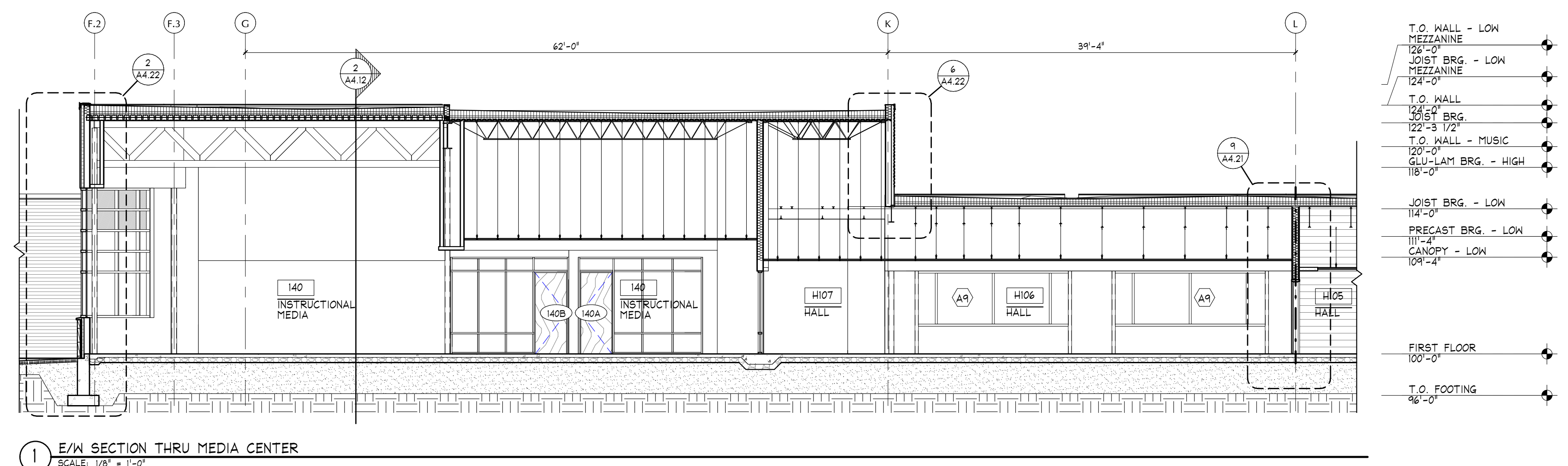
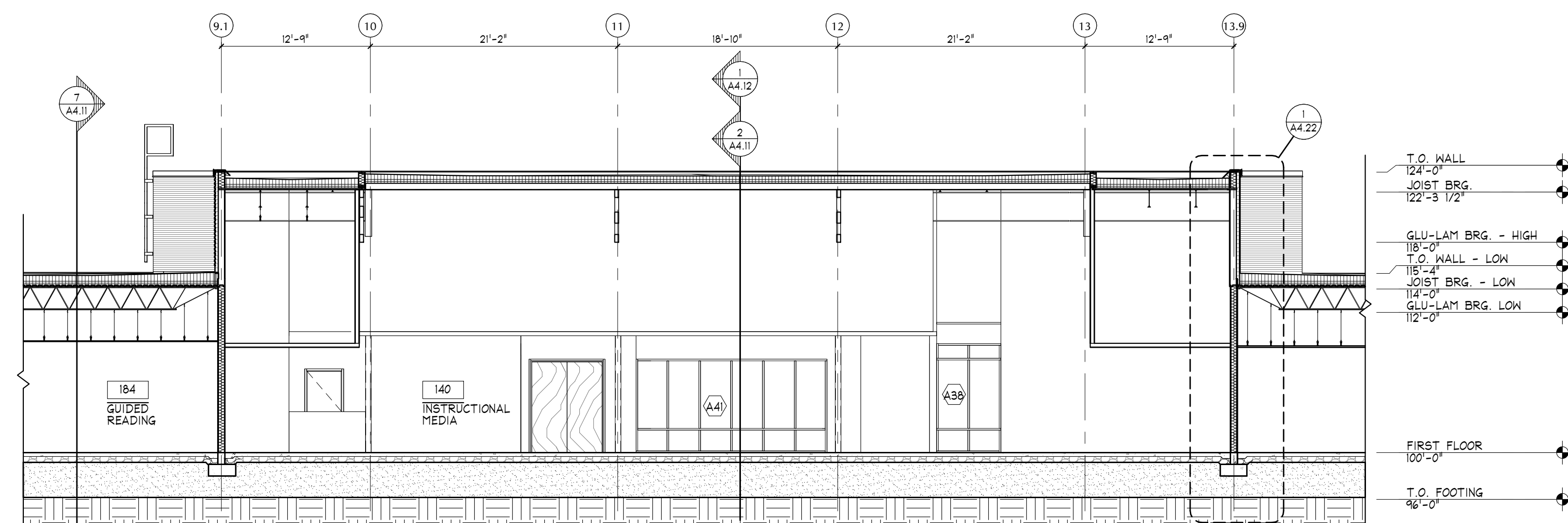
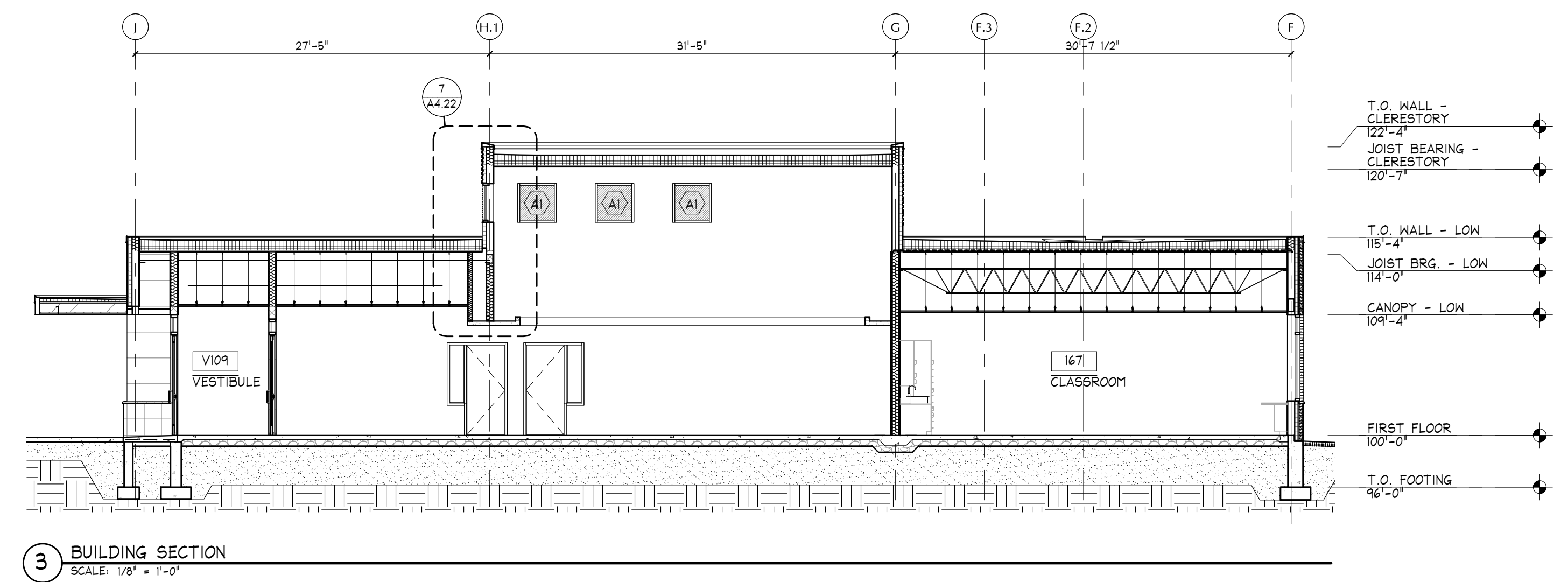
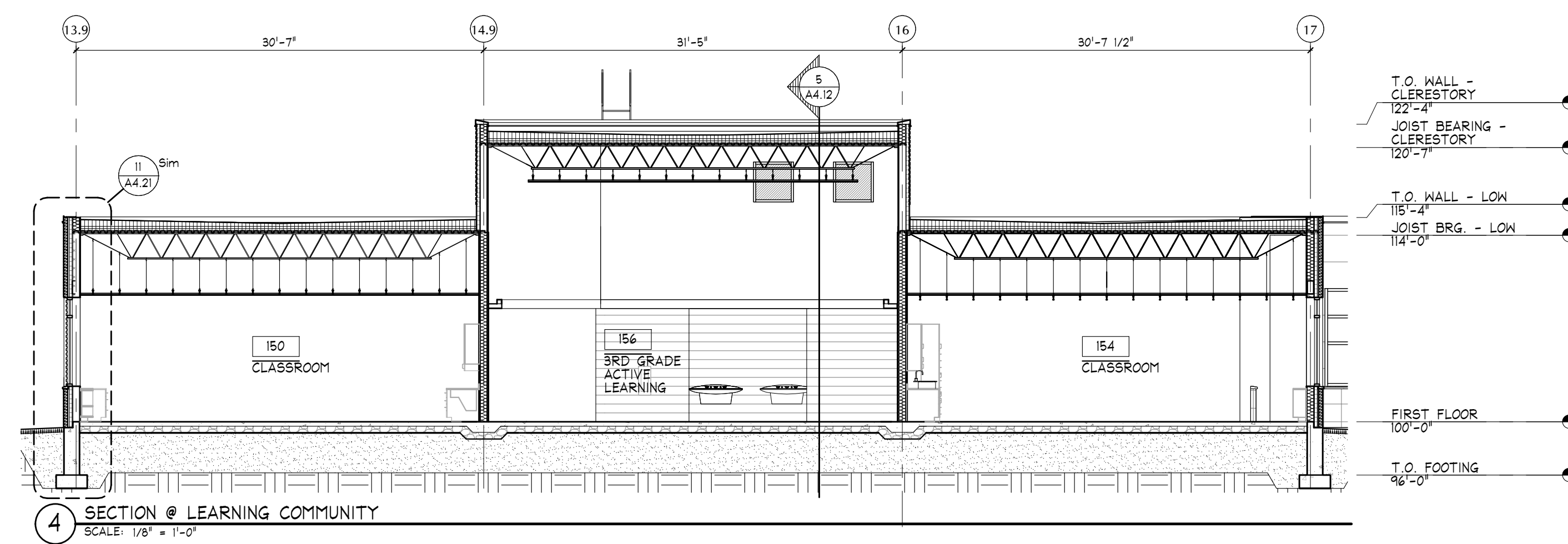
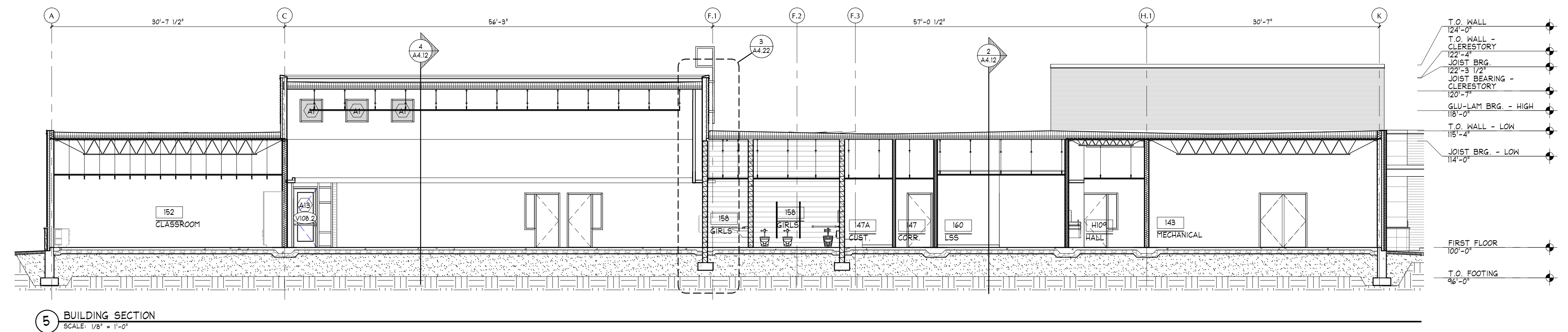
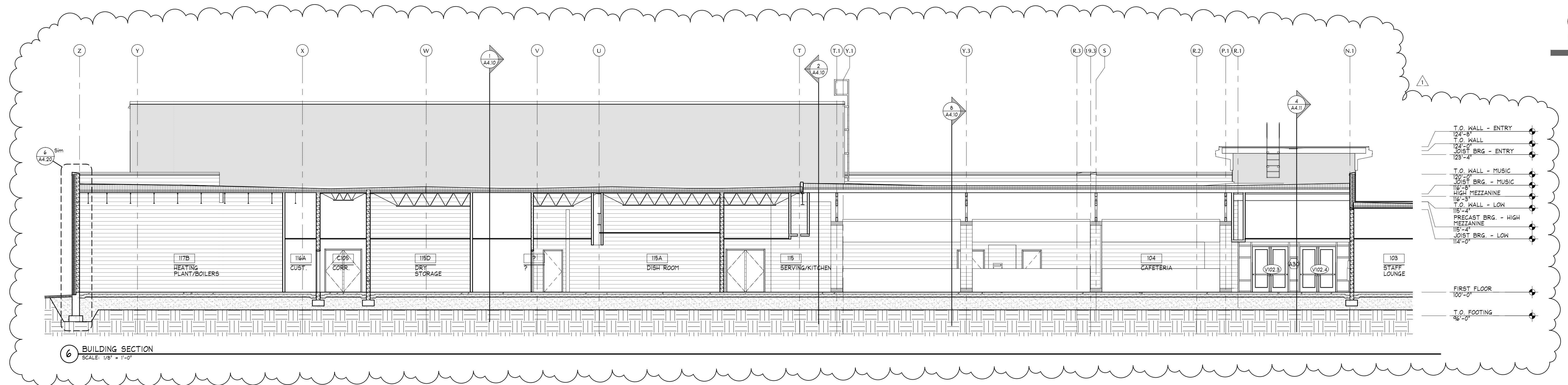


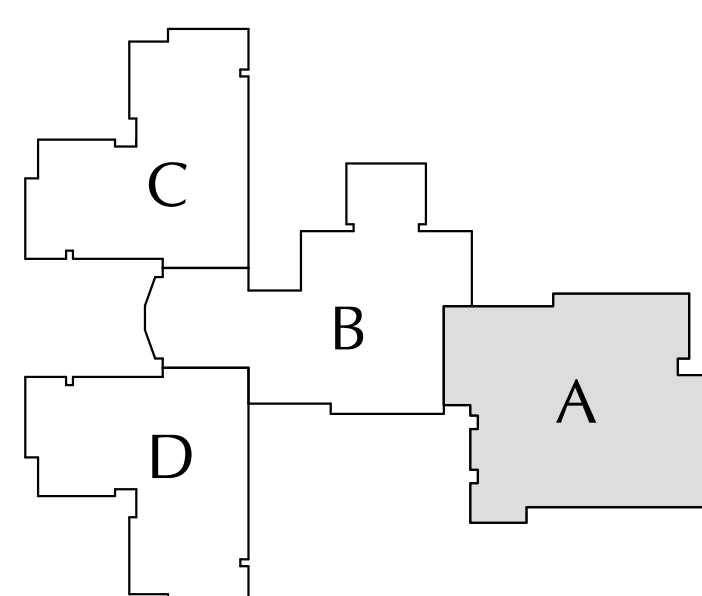
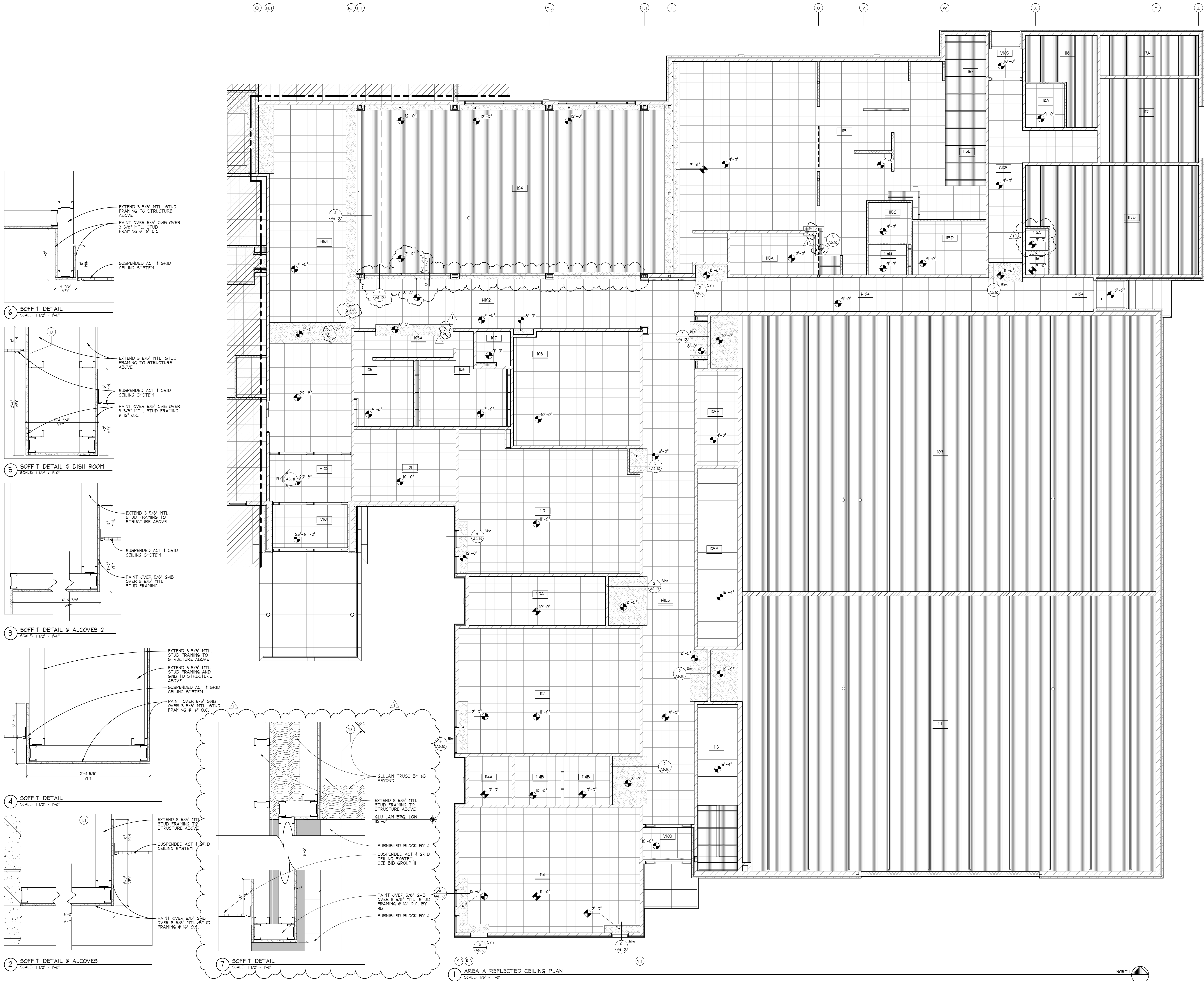
MOORHEAD AREA PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

AREA C & D EXTERIOR ELEVATIONS

Project No.: 15-025
Date: 04-07-2016

A4.03





KEY PLAN
NOT TO SCALE

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

BID GROUP I

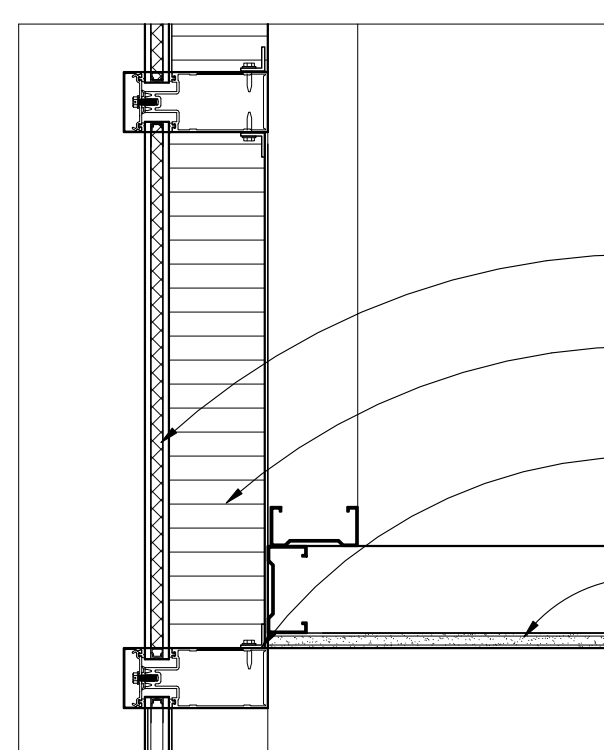
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Print Name: Brian C. Berg
Signature: *Brian C. Berg*
Date: 04-07-2016 Registration No. 41686

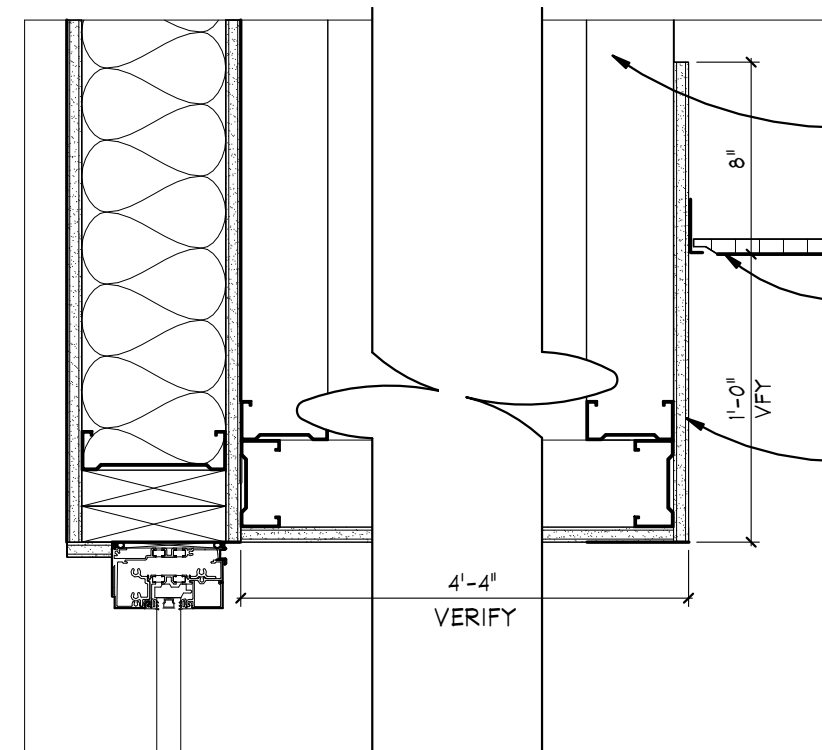


MOORHEAD AREA PUBLIC
SCHOOLS
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SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

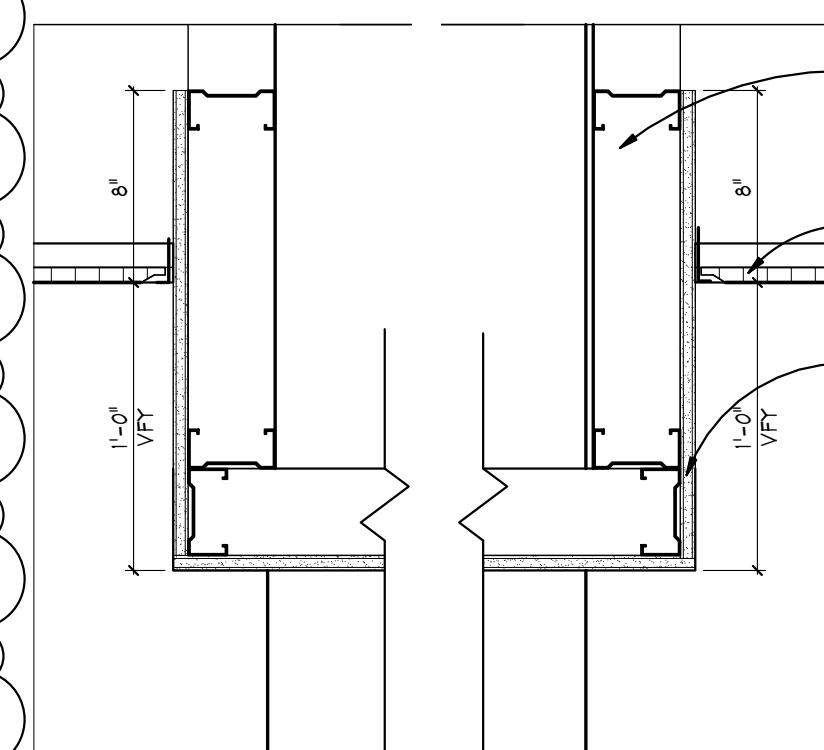
REFLECTED CEILING PLAN - AREA A



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



3 SOFFIT DETAIL @ EXT. WINDOW
SCALE: 1/2" = 1'-0"



2 SOFFIT DETAIL @ HALLS
SCALE: 1/2" = 1'-0"



1 AREA B REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

NORTH

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/7/2016	ADD #1

BID GROUP I

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Print Name: Brian F. Berg
Signature: *BFB*
Date: 04-07-2016 Registration No. 41686



MOORHEAD AREA PUBLIC
SCHOOLS
NEW ELEMENTARY
SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

REFLECTED CEILING PLAN - AREA B

Project No.: 15-025
Date: 04-07-2016

A6.11

- GENERAL CONSTRUCTION NOTES:
1. THE INTENT OF THESE PLANS & NOTES IS TO PRESENT THE PROJECT REQUIREMENTS FOR THE MOORHEAD AREA PUBLIC SCHOOLS, NEW ELEMENTARY SCHOOL.
 2. THESE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS. SOME DIMENSIONS, SECTIONS, FRAMING DETAILS MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS.
 3. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS THAT ARE UNKNOWN OR THAT DIFFER FROM AS SHOWN ON THESE DRAWINGS. SUCH EXISTING CONDITIONS MAY INTERFERE WITH NEW CONSTRUCTION OR REQUIRE PROTECTION DURING CONSTRUCTION.
 4. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL ENCOUNTERED EXISTING CONDITIONS THAT INTERFERE WITH PROPER EXECUTION OF NEW WORK OR COMPROMISE THE STRUCTURAL INTEGRITY OF THE STRUCTURE.
 5. ALL WORK SHALL COMPLY WITH THE 2008 INTERNATIONAL BUILDING CODE, AS APPROVED BY THE STATE OF MINNESOTA CITY OF MOORHEAD.
 6. REFERENCE STANDARDS, UNLESS OTHERWISE NOTED (U.O.N.), ALL STANDARDS SHALL BE CURRENT EDITION WITH LATEST ADDENDA, IF APPLICABLE.
 7. THE CONTRACTOR SHALL VERIFY ALL CONTRACT DOCUMENTS, SITE ELEVATIONS, DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
 8. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.
 9. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. TEMPORARY BRACING AND SHORING AGAINST WIND AND ERECTION CONDITIONS DURING CONSTRUCTION OF THE BUILDING, ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF THE STRUCTURE DURING ALL PHASES OF DEMOLITION, CONSTRUCTION, AND INSTALLATION.
 10. TEMPORARY BRACING AND SHORING AGAINST WIND AND ERECTION CONDITIONS TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
 11. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.
 12. SEE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR ALL OPENINGS AND INSERTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 13. VERIFY LOCATION OF BOX OUTS AND OPENINGS WITH MECHANICAL CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR PIPES, DUCTS, ETC. ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR BEFORE COMMENCING THE WORK.
 14. IF MECHANICAL, AND ELECTRICAL EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT CONFORM WITH EQUIPMENT SHOWN ON PLANS, COORDINATE ADJUSTMENTS WITH THE STRUCTURAL ENGINEER.

15. HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACEMENT THROUGH STRUCTURAL MEMBERS.
16. CONTRACTOR SHALL PROVIDE A CAST-IN SLEEVE FOR ALL HORIZONTAL ELEMENTS THAT EXTEND THROUGH FOOTINGS, IE. DRAIN TILE, ELECTRICAL, CONDUIT, MECHANICAL PIPING, ETC. ALL SLEEVES SHALL BE COORDINATED WITH ARCHITECT/MECHANICAL.
17. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, ETC., SHALL BE DIMENSIONED, REVIEWED, COORDINATED, AND SIGNED/STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER. MANUFACTURED COMPONENTS SUCH AS TRUSSES OR PRECAST CONCRETE SHALL BE ENGINEERED AND STAMPED PRIOR TO SUBMISSION.
18. FABRICATOR SHALL CLEARLY NOTE CHANGES MADE IN THE SHOP DRAWINGS WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS. REVIEWED APPROVAL SHOP DRAWINGS SHOWING ENGINEERS COMMENTS ACCOMPANIED WITH RECORD SET SHOP DRAWINGS, SHALL BE AVAILABLE FOR REFERENCE AT THE CONSTRUCTION SITE.
19. EXPANSION ANCHORS (EAC) AND SHALL BE 1/2" DIA. 12" TYP. OR EQUIVALENT (U.O.N.). INSTALL ANCHORS IN STRUCTURAL CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
20. ADHESIVE ANCHORS (AA) SHALL BE 1/2" DIA. 12" TYP. OR EQUIVALENT (U.O.N.). OR EQUIVALENT (U.O.N.). USE WITH HY-200 GROUT FOR COLD WEATHER APPLICATIONS. SEE SPECIFICATIONS FOR USAGE. INSTALL ANCHORS IN STRUCTURAL CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

DESIGN LOADS:

FLOOR LIVE LOADS:	
CLASSROOMS	40 psf
CORRIDORS & STAIRS	100 psf
MECHANICAL	150 psf
ROOF LIVE LOADS:	
FLAT ROOF SNOW	20 psf
IMPORTANCE FACTOR	1.0
EXPOSURE FACTOR	1.0
THERMAL FACTOR	1.0
GROUND SNOW LOAD	25 psf
DEAD LOADS (SUPERIMPOSED):	
TYPICAL FLOOR	10 psf
TYPICAL ROOF	20 psf
LATERAL LOADS (WIND/MINNESOTA):	
ULTIMATE WIND SPEED (3 SEC. GUST)	120 mph
WIND EXPOSURE	1
INTERNAL PRESSURE COEFF.	+0.18
LATERAL LOADS (SEISMIC/ASCE):	
IMPORTANCE FACTOR	1.0
SPECTRAL RESPONSE COEFF.	0.15
SITE CLASS	1
SEISMIC DESIGN CATEGORY	1
DESIGN BASE SHEAR	0.018
SEISMIC RESPONSE COEFF.	0.15
RESPONSE MOD. FACTOR	1.0
ANALYSIS PROCEDURE	E.L.F.A.

22. THE FOLLOWING STANDARD DETAILS SHALL APPLY:
- FOOTING STEP - 193.1
- FOOTING CORNER - 263.1
- CORNER REINFORCING - 353.1
- FOUNDATION WALL INTERSECTION - 453.1
- FOUNDATION WALL CONSTRUCTION JOINT (WCJ) - 553.1
- FLOOR CONSTRUCTION JOINT (FCJ) - 653.1
- FLOOR CONTROL JOINT (CJ) - 753.1
- STOOP DETAIL - 853.1
- THICKENED SLAB - 953.1
- ISOLATION JOINT - 1353.1

SPECIAL INSPECTIONS:

1. THE CONTRACTOR SHALL COORDINATE THE TESTING AND INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE TESTING OR INSPECTION AGENCY OF THE REQUIRED WORK TO ALLOW ALLOCATION OF PERSONNEL. THE COST OF ANY RETESTING OR ADDITIONAL INSPECTIONS AS A RESULT OF UNEXPECTED WORK, FAILING TESTS, OR RELATED WORK, SHALL BE BORNE BY THE CONTRACTOR.

2. THE FOLLOWING TABLE INCLUDES ITEMS REQUIRING SPECIAL INSPECTION PROVIDED BY THE OWNER. SPECIAL INSPECTIONS LISTED IN THIS TABLE MAY NOT INCLUDE ALL INSPECTIONS AND/OR TESTING THAT IS REQUIRED FOR THE PROJECT PER BC CHAPTER 17. ADDITIONAL TESTING MAY BE REQUIRED BY THE CONTRACTOR, AS PART OF THEIR CONTRACT.

REQUIRED SPECIAL INSPECTION					
DESCRIPTION OF WORK BC CHAPTER 17	INSPECTION		TESTING		REMARK
	YES	NO	YES	NO	
1. CONCRETE	X		X		
2. BOLTS INSTALLED IN CONCRETE	X		X		
3. DUCTILE MOMENT RESISTING CONCRETE FRAME				X	
4. REIN. STEEL AND PRESTRESSING STEEL	X		X		
5. WELDING	X		X		
6. HIGH STRENGTH BOLTING	X		X		
7. STRUCTURAL MASONRY	X		X		
8. REIN. GYPSUM CONCRETE				X	
9. INSULATING CONC. FULL				X	
10. PILING, DRILLED PIERS AND CASSONS				X	
11. SHOTCRETE				X	
12. SPEC. GRADING EXC. AND FILLING	X		X		
13. WOOD FRAMING TRUSSES				X	
14. STRUCTURAL PRECAST				X	
15. SPECIAL CASES	X		X		

- FOUNDATION NOTES:
1. FOOTING ELEVATIONS ARE TO TOP OF FOOTING (T.O. FTG.) UNLESS OTHERWISE NOTED.
 2. FOOTINGS ARE DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 psf FOR CONTINUOUS AND 2400 psf FOR PAD FOOTINGS. FOUNDATION DESIGN COMPLES W/ GEOTECHNICAL REPORT #19-1345, 10/14/2013, 3.9 BY NORTHERN TECHNOLOGIES INC.
 3. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL OR ENGINEERED FILL. SOIL SHALL BE OBSERVED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FOOTING CONCRETE. IF NATURAL UNDISTURBED SOILS ARE NOT ENCOUNTERED AND/OR INADEQUATE SOILS ARE NOTED AT FOOTING BEARING LEVEL, ARCHITECT/ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH FURTHER WORK AT THOSE FOOTING LOCATIONS.
 4. PROTECT FOOTINGS FROM THE ACTION OF WATER OR FREEZING.
 5. FOOTINGS ARE CENTERED UNDER WALLS ABOVE - UNLESS OTHERWISE NOTED.
 6. PRIOR TO PLACEMENT OF FOOTING CONCRETE, CLEAN FOOTING EXCAVATIONS OF SNOW, WATER, MUD, DIRT AND DEBRIS.
 7. FOOTINGS MAY NOT BE EARTH-FORMED.

- EXCAVATION AND BACKFILL NOTES:
1. EXCAVATION AND BACKFILL SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 2. BACKFILL & COMPACTION SHALL BE INSPECTED AND CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER. REPORTS ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER.
 3. FOOTING EXCAVATIONS SHALL BE EXCAVATED TO PROPER LINE AND LEVEL TO ENSURE MINIMUM CONCRETE COVER OF FOOTING REINFORCING FOR FOOTING DEPTH.
 4. BACKFILL SHALL BE COMPACTED BY MECHANICAL MEANS. FLOODING OR WATER INUNDATION SHALL NOT BE PERMITTED.
 5. BACKFILL SHALL BE PLACED IN ALTERNATING LIFTS ON EACH SIDE OF THE FOUNDATION WALLS TO MAINTAIN PLUMB LINE ABOVE.
 6. THE CONTRACT STRUCTURAL DOCUMENTS & SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE MEANS & METHODS USED TO PERFORM THE EXCAVATIONS IS AT THE SOLE DISCRETION OF THE CONTRACTOR, INCLUDING THE DESIGN & INSTALLATION OF TEMPORARY BRACING. CONTRACTOR IS RESPONSIBLE FOR ALL CODE & REGULATORY SAFETY REQUIREMENTS.

- MASONRY NOTES:
1. CONCRETE BLOCK MASONRY UNITS SHALL CONFORM TO GRADE "N" MOISTURE CONTROLLED TYPE. REQUIREMENTS OF ASTM C90, WITH AN ASSUMED COMPRESSIVE STRENGTH $f_m = 1900$ psi. MORTAR SHALL CONFORM TO ASTM C270 AND SHALL BE TYPE "M" OR TYPE "S" WITH "M" BELOW GRADE.
 2. BOND BEAMS SHALL HAVE 1" #6 REINFORCING BARS CONTINUOUS. PROVIDE AT TOP OF WALLS AND WHERE SHOWN ON PLAN OR DETAILS. SEE STANDARD DETAILS FOR TYPICAL CORNER BARS. BOND BEAMS SHALL BE A 1" BLOCK TYPE UNIT, EXTENDED VERTICALLY WALL RISE, THRU BOND BEAM WHERE APPLICABLE.
 3. CONCRETE GROUT FOR UNIT MASONRY CORES AND BOND BEAMS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 psi.
 4. MASONRY WALLS ARE TO BE SUPPORTED LATERALLY UNTIL THE ENTIRE ROOF AND/OR FLOOR IS IN PLACE AS DETAILED.
 5. WIRE REINFORCING FOR CMU WALLS SHALL BE CORROSION RESISTANT 9 ga. HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A651. REINFORCING SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS WITH MAXIMUM SPACING OF 18" O.C. (U.O.N.).
 6. MASONRY REINFORCING SHALL BE LAPPED AS FOLLOWS:

#3 BAR = 18"	#6 BAR = 36"
#4 BAR = 24"	#7 BAR = 42"
#5 BAR = 30"	#8 BAR = 48"
 7. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT 16" REIN. DIAMETER INTERVALS MAXIMUM. LENGTH OF REINFORCING BARS TO BE COORDINATED WITH GENERAL CONTRACTOR AND MASONRY CONTRACTOR.
 8. WHERE CELLS ARE TO BE FILLED W/ CONCRETE GROUT, PROVIDE ADDITIONAL FULL MORTAR BED AT CROSS WEBS ENCLOSING GROUTED CELL.
 9. CONSOLIDATE ALL CONCRETE GROUT BY PLODDING OR VIBRATING.
 10. BLOCK COURSE SHOWN ON STRUCTURAL PLANS MAY NOT BE REPRESENTATIVE OF ACTUAL COURSES. SEE ARCHITECTURAL PLANS AND SECTIONS FOR ACTUAL LAYOUT OF BLOCK COURSE.
 11. MASONRY PIERS SHALL BE LAD UP SIMULTANEOUSLY WITH WALLS AND SHALL BE INTERLOCKED WITH WALL BLOCKS.
 12. FIRST COURSE OF ALL HOLLOW MASONRY SHALL BE PLACED ON A FULL BED OF MORTAR.
 13. CAST DOVELS, WITH STANDARD HOOKS, IN FOOTINGS FOR PIERS AND WALLS ABOVE. DOVELS SHALL BE THE SAME SIZE AND SPACING OF VERTICAL REINFORCING (U.O.N.).

- CONCRETE NOTES:
1. STRUCTURAL STEEL WORK SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) CODES AND SPECIFICATIONS, LATEST EDITION.

ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"	
ACI 318 "DETAILS & DETAILING OF CONCRETE REINFORCEMENT"	
ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"	
 2. CAST-IN-PLACE CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:

3000 psi - FOOTINGS	
3000 psi - EXTERIOR FOUNDATION WALLS	
3000 psi - INTERIOR FOUNDATION WALLS	
3000 psi - PIERS	
4000 psi - INTERIOR SLABS ON GRADE	
4000 psi - EXTERIOR SLABS ON GRADE - AIR ENTRAINED	
4000 psi - RAISED SLABS	
4000 psi - EXTERIOR SLABS ON DECK - AIR ENTRAINED	
 3. CONCRETE MIX DESIGN SHALL BE BY AN INDEPENDENT TESTING LABORATORY.

ACI - AMERICAN INSTITUTE OF STEEL CONSTRUCTION	
AWIS - AMERICAN WELDING SOCIETY	
 4. COLUMN BASE AND CAP PLY TO BE WELDED AROUND ALL SLABS.
 5. BOTTOM PLATE OF STEEL UNITS SHALL BE WELDED TO THE BEAM WITH #1 FILL WELD (BOTH SIDES) 1" LONG @ 12" O.C. (U.O.N.)
 6. WELDS NOT SPECIFIED SHALL BE A FILLET WELD, CONTINUOUS AND/OR ALL AROUND WITH MINIMUM THROAT DIMENSION AS REQUIRED FOR MATERIAL THICKNESS PER AWS.
 7. BEFORE ENCASEING STEEL COLUMNS IN CONCRETE OR MASONRY, COAT COLUMN BASES AND TOPS OF ANCHOR BOLTS WITH ASPHALTIC ROOF CEMENT.
 8. BEAMS AND COLUMNS SHALL BE ERECTED TRUE AND PLUMB WITHIN ACI TOLERANCE. PROVIDE TEMPORARY BRACING AS REQUIRED.

BEAMS AND COLUMNS COVER TO STRUTS OR TIES	1/2"
BEAMS AND COLUMNS COVER TO STRUTS OR TIES	1/2"
 9. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH THE ACI 301 (LATEST EDITION).
 10. PROVIDE LAP SPICE FOR REINFORCING STEEL AS INDICATED IN THE FOLLOWING SCHEDULE:

REINFORCING STEEL SPLICE LENGTHS STANDARD NON-COATED BARS

CONCRETE STRENGTH	TYPE #1 SPLICE CLASS A SPLICE	TYPE #2 SPLICE CLASS B SPLICE	TYPE #3 SPLICE CLASS S SPLICE	TYPE #4 SPLICE COMPRESSION SPLICE
FC	#4 AND SMALLER	#4 AND SMALLER	#4 AND SMALLER	#4 AND SMALLER
3000 psi	44 DB	55 DB	57 DB	71 DB
3500 psi	41 DB	51 DB	53 DB	66 DB
4000 psi	38 DB	47 DB	49 DB	62 DB
5000 psi	34 DB	43 DB	44 DB	55 DB
6000 psi	31 DB	39 DB	40 DB	50 DB

DB = BAR DIAMETER

NOTES:

1. MIN. LAP: 18" FOR TYPE #1 THRU TYPE #4 & 12" FOR TYPE #4 SPLICES.
2. RECD. SPLICE LENGTH = LISTED SPLICE LENGTH + ADJUSTMENT FACTORS. ADJUSTMENT FACTORS = 1.0 IF NONE BELOW APPLY.

A. FOR HORIZ. REINFORCING W/ MORE THAN 12" OF FRESH CONCRETE PLACED BELOW BAR - ADJUSTMENT FACTOR = 1.3
B. FOR FY OTHER THAN 60 ksi - ADJUSTMENT FACTOR = Fy (USED) 60
C. FOR LIGHT WEIGHT CONCRETE - ADJUSTMENT FACTOR = 1.3
D. TYPICAL EPOXY COATED REINFORCING - ADJUSTMENT FACTOR = 1.2
E. EPOXY COATED REINFORCING W/ COVER LESS THAN 80 OR CLEAR SPACING LESS THAN 6" - ADJUSTMENT FACTOR = 1.5
3. ALL ADJUSTMENT FACTORS THAT APPLY SHALL BE USED TO CALCULATE REQUIRED SPLICE LENGTH.

11. UNLESS OTHERWISE NOTED ON PLAN OR DETAILS, LAP THE FOLLOWING BARS AS DEFINED IN LAP SPLICE TABLE ABOVE.

A. VERTICAL HOOKED OR STRAIGHT BARS EXTENDING FROM FOOTINGS	TYPE #4 SPLICE
B. HORIZONTAL BARS IN SLABS ON GRADE, GRADE BEAMS, FOOTINGS, & FOUNDATION WALLS	TYPE #2 SPLICE
C. VERTICAL BARS IN COLUMNS & PIERS	TYPE #4 SPLICE
D. WHERE SPECIFICALLY NOTED ON PLAN OR DETAILS	TYPE #4 SPLICE
12. PROVIDE ADEQUATE SUPPORT BARS AND ACCESSORIES TO HOLD REINFORCING BARS FIRMLY IN PLACE TO SPECIFIED COVERAGES.
13. CONTROL JOINTS SHALL BE PLACED IN A SQUARE PATTERN WITH A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS WHERE A SQUARE PATTERN IS NOT POSSIBLE. THE MAXIMUM LONG SIDE TO SHORT SIDE OF THE JOINT PATTERN SHALL NOT EXCEED A RATIO OF 12:1. CONTROL JOINTS SHALL BE LOCATED AT ALL ISOLATION JOINTS & WALL CORNERS. CONSTRUCTION JOINTS SHALL BE LOCATED BY THE CONTRACTOR AS REQUIRED FOR CONSTRUCTION WITH A MAXIMUM OF 3,000 SQUARE FEET. THIS NOTE SHALL GOVERN OVER ALL JOINTS SHOWN ON PLAN. CONTRACTOR SHALL SUBMIT A JOINT PLACEMENT PLAN TO OWNER/ARCHITECT/ENGINEER PRIOR TO POURING CONCRETE.
14. CAST DOVELS, WITH STD. 90° HOOK, IN FOOTINGS FOR CONCRETE PIERS AND WALLS ABOVE. DOVELS SHALL BE THE SAME SIZE AND NUMBER AS THE VERTICAL REINFORCING (U.O.N.).
15. SUPPLY 200 FIBR EXTRA OF #5 REBAR FOR MISC. PLACEMENT AS DIRECTED BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL INCLUDE ALLOWANCE FOR PROJECTED LABOR COSTS INVOLVED WITH INSTALLATION OF REINFORCEMENT.

- STRUCTURAL STEEL NOTES:
1. STRUCTURAL FRAMING MEMBERS SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION, NINTH EDITION, MATERIAL:

ASTM A992	W, S, AND M SHAPES	Fy = 50 ksi
ASTM A53	GRADE B - STANDARD PIPES	Fy = 35 ksi
ASTM A500	GRADE B - HSS PIPES	Fy = 42 ksi
ASTM A500	PLATES BARS, MISC. SHAPES (ANGLES), CHANNELS, AND RODS	Fy = 46 ksi
ASTM A588	PLATES BARS, MISC. SHAPES (ANGLES), CHANNELS, AND RODS	Fy = 50 ksi
ASTM A325	CONNECTION BOLTS	Fy = 58 ksi
ASTM A490	CONNECTION BOLTS	Ft = 54 ksi
ASTM A563	CONNECTION NUTS	
ASTM F436	WASHERS	
ASTM F436	ELECTRODES	
 2. WELDED CONNECTIONS SHALL BE MADE IN ACCORDANCE W/ THE LATEST RECOMMENDATIONS OF:

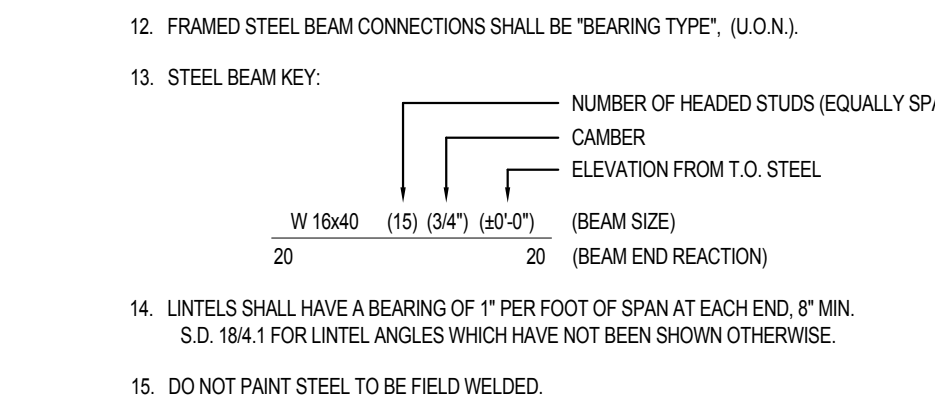
AWIS - AMERICAN WELDING SOCIETY	
ACI - AMERICAN INSTITUTE OF STEEL CONSTRUCTION	
 3. COLUMN BASE AND CAP PLY TO BE WELDED AROUND ALL SLABS.
 4. BOTTOM PLATE OF STEEL UNITS SHALL BE WELDED TO THE BEAM WITH #1 FILL WELD (BOTH SIDES) 1" LONG @ 12" O.C. (U.O.N.)
 5. WELDS NOT SPECIFIED SHALL BE A FILLET WELD, CONTINUOUS AND/OR ALL AROUND WITH MINIMUM THROAT DIMENSION AS REQUIRED FOR MATERIAL THICKNESS PER AWS.
 6. STRUCTURAL FABRICATORS SHALL SHOW ALL FIELD WELDING REQUIREMENTS ON SHOP DRAWINGS SUBMITTED TO THE ENGINEER.
 7. BEFORE ENCASEING STEEL COLUMNS IN CONCRETE OR MASONRY, COAT COLUMN BASES AND TOPS OF ANCHOR BOLTS WITH ASPHALTIC ROOF CEMENT.
 8. BEAMS AND COLUMNS SHALL BE ERECTED TRUE AND PLUMB WITHIN ACI TOLERANCE. PROVIDE TEMPORARY BRACING AS REQUIRED.

BEAMS AND COLUMNS COVER TO STRUTS OR TIES	1/2"
BEAMS AND COLUMNS COVER TO STRUTS OR TIES	1/2"
 9. BEARING PLY FOR STEEL COLUMNS SHALL BE DRY PACKED WITH A NON-SHRINK, NON-METALLIC GROUT AS SPECIFIED.
 10. BRIDGING SHALL BE SUPPLIED AND DESIGNED BY THE STEEL JOIST SUPPLIER. AS PER AISI STANDARDS. FOR THE PROJECT DESIGN LOADS, STEEL JOIST SUPPLIER TO PROVIDE CONNECTIONS TO ANCHOR BRIDGING TO MASONRY AND/OR CONCRETE WALLS. SEE STANDARD DETAILS.
 11. PROVIDE DOUBLE ANGLE CONNECTIONS AS DESCRIBED IN PART 10 OF THE AISC MANUAL OF STEEL CONSTRUCTION (13TH EDITION).

• CONNECTIONS SHALL BE SELECTED TO SUPPORT BEAM END REACTIONS INDICATED ON THE CONTRACT DRAWINGS	
• IF BEAM END REACTIONS ARE NOT INDICATED, CONNECTIONS MUST BE SELECTED TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD CAPACITY GIVEN IN THE ALLOWABLE UNIFORM LOAD TABLES, PART 1.5.10 EDITION, FOR THE SPECIFIED BEAM SIZE, SPAN, AND STEEL GRADE (U.O.N.).	
• CONNECTIONS SHALL HAVE MINIMUM ROWS OF BOLTS FOR BEAM DEPTHS AS INDICATED IN PART 10.	
 12. FRAMED STEEL BEAM CONNECTIONS SHALL BE "BEARING TYPE" (U.O.N.).
 13. STEEL BEAM KEY:

NUMBER OF HEADED STUDS (EQUALLY SPACED)	
CAMBER	
ELEVATION FROM T.O. STEEL	
W 16x40 (15) (34) (40) (7)	
BEAM END REACTION	
 14. UNITS SHALL HAVE A BEARING OF 1" PER FOOT OF SPAN AT EACH END, 8" MIN. S.D. 194.1 FOR UNITS ANGLES WHICH HAVE NOT BEEN SHOWN OTHERWISE.
 15. DO NOT PAINT STEEL TO BE FIELD WELDED.
 16. VERIFY 200 FIBR EXTRA OF #5 REBAR FOR MISC. BRACING, ETC. AS DIRECTED BY ARCHITECT/ENGINEER. CONTRACTOR SHALL INCLUDE AN ALLOWANCE FOR ERECTION OF STEEL ANGLE.
 17. STEEL JOISTS TO BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS.

18. METAL DECK TO BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS. <table><tr><td>ROOF DECK - 3" DEEP, TYPE NA, 20GA, AS MADE BY VULCANFAT OR EQUAL</td><td></td></tr><tr><td>1" DEEP, TYPE NA, 20GA, AS MADE BY VULCANFAT OR EQUAL</td><td></td></tr><tr><td>ROOF DECK - ERI 5A, 16 GA EPOXIC DECK, AS MADE BY EPC METALS OR EQUAL</td><td></td></tr><tr><td>STOOP DECK - 1" DEEP, TYPE C, 20GA, GALVANIZED, AS MADE BY VULCANFAT OR EQUAL</td><td></td></tr></table>	ROOF DECK - 3" DEEP, TYPE NA, 20GA, AS MADE BY VULCANFAT OR EQUAL		1" DEEP, TYPE NA, 20GA, AS MADE BY VULCANFAT OR EQUAL		ROOF DECK - ERI 5A, 16 GA EPOXIC DECK, AS MADE BY EPC METALS OR EQUAL		STOOP DECK - 1" DEEP, TYPE C, 20GA, GALVANIZED, AS MADE BY VULCANFAT OR EQUAL		
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 18. VERIFY LOCATION OF ROOF OPENINGS WITH MECHANICAL CONTRACTOR. ROOF OPENINGS SHALL BE FRAMED WITH 3" x 3" x 1/4" ON FOUR SIDES (U.O.N.) SEE STANDARD DETAILS.
 20. ROOF PERIMETER STEEL ELEMENTS SUCH AS ANGLES OR BENT PLY, NOTED TO BE CONTINUOUS, SHALL BE FIELD SPLICED WITH FULL LENGTH SQUARE GROOVE FULL PENETRATION WELD UTILIZING A MINIMUM 1/4" ROOF OPENING.



- LIGHT GAUGE FRAMING NOTES:
1. LIGHT GAUGE STEEL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING STANDARDS:

AMERICAN IRON & STEEL INSTITUTE (AISI) - "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS"	
ASTM C-465 - "STANDARD SPECIFICATION FOR LOAD BEARING STEEL STUDS, TRACKS, & BRIDGING"	
ASTM C-1007 - "STANDARD SPECIFICATION FOR INSTALLATION OF LOAD BEARING STEEL STUDS & RELATED ACCESSORIES"	
 2. LIGHT GAUGE FRAMING MEMBERS SHALL BE SIZED AS SHOWN ON THE CONTRACT DOCUMENTS.
 3. TRACKS SHALL BE INSTALLED AT THE TOPS AND BOTTOMS OF ALL VERTICAL STUDS AND SHALL BE THE SAME GAUGE AS THE WALL STUDS. TRACKS SHALL BE CONNECTED TO THE STUDS WITH (2) #6 SCREWS (MIN), ONE AT EACH FLANGE.
 4. WELDED CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE LATEST RECOMMENDATION OF:

AWIS - AMERICAN IRON AND STEEL INSTITUTE	
AWIS - AMERICAN WELDING SOCIETY	
 5. DESIGN CRITERIA: EXTERIOR CURTAIN WALLS:

WIND: 120 mph, EXPOSURE "C"	
DEFLECTION: L/600	
 6. YIELD STRENGTH:

33 ksi - ALL DESIGN THICKNESSES	
30 ksi - 16 GA. AND HEAVIER	

ASTM A653, A792, A792 OR A653 (60 GR. GALT FINISH MIN.)
 7. ALL WALL STUDS SHALL BE BRACED WITH A COLD-ROLLED CHANNEL RUN THROUGH THE STUD DOWNS OUTS AND ATTACHED TO A 2" x 2" x 1/4" ANGLE AT EACH STUD. THE COLD ROLLED CHANNELS SHALL BE 1" x 1" x 1/2", 16 GA. AND ATTACHED WITH (2) SCREWS PER FLANGE. AT SPICES, OVERLAP THE CHANNEL BY 12". VERTICAL SPACING OF CHANNELS SHALL NOT EXCEED 4" O.C.

- PRECAST PRESTRESSED CONCRETE NOTES:
1. PRECAST CONCRETE UNITS SHALL BE DESIGNED TO SUPPORT THE SUPERIMPOSED LOADS AS INDICATED ON THE CONTRACT DOCUMENTS FOR THE SPANS INDICATED. DESIGN SHALL BE IN ACCORDANCE WITH THE ACI 318 AND UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER. ADDITIONAL LOADS SUCH AS SNOW DRIFT, LOADING AND LOADS FROM ALL OTHER DISCIPLINES SHALL BE THE RESPONSIBILITY OF THE P.C. ENGINEER.
 2. SEE SPECIFICATIONS FOR CONCRETE AND REINFORCING REQUIREMENTS.
 3. VERIFY SIZE, NUMBER AND LOCATION OF OPENINGS WITH THE MECHANICAL, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL PLANS.
 4. PRECAST SUPPLIER TO SHOW FIELD ANCHORAGE REQUIREMENTS ON SUBMITTED SHOP DRAWINGS.
 5. PRECAST MEMBERS HAVE BEEN INDICATED ON THE DRAWINGS BY GENERAL SIZE AND DEPTH. THE STRUCTURAL ANALYSIS AND DESIGN OF THESE ITEMS, AS WELL AS LIFTING DEVICES FOR PRE-STRESSED CONCRETE MEMBERS, SHALL BE PERFORMED BY THE PRECAST MANUFACTURER.

A. DESIGN DEVIATIONS WILL BE PERMITTED AFTER THE ARCHITECTS APPROVAL OF THE MANUFACTURERS PROPOSED DESIGN SUPPORTED BY CALCULATIONS AND DRAWINGS	
B. DESIGN DEVIATIONS MUST PRODUCE AN INSTALLATION EQUIVALENT TO THE BASIC INTENT WITHOUT INCURRING ADDITIONAL COSTS TO THE OWNER	
C. ALL REQUIRED MATERIALS SHALL BE SUITABLE FOR THE PURPOSE INTENDED AND SUBJECT TO PRIOR APPROVAL BY THE ARCHITECT.	
 6. PRECAST SUPPLIER SHALL PROVIDE INSERTS & ANCHORS IN PRECAST CONC. UNITS FOR SUPPORT OF MECHANICAL & ELECTRICAL EQUIPMENT OR ARCHITECTURAL ITEMS. VERIFY LOCATIONS IN ARCHITECT.
 7. ALL SUBMITTAL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE THE PROJECT WILL BE CONSTRUCTED. USING THE DESIGN LOADS & SPAN CONDITIONS INDICATED ON THE CONTRACT DOCUMENTS.
 8. PRECAST AT OPENINGS THROUGH PRECAST MEMBERS SHALL BE SUPPLIED BY THE PRECAST SUPPLIER. PRECAST UNITS ADJACENT TO THE OPENINGS SHALL BE DESIGNED FOR THE ADDITIONAL LOAD AT EACH BEARING LOCATION.
 9. PRECAST SUPPLIER SHALL BE RESPONSIBLE FOR OPENINGS 8" AND LARGER IN SIZE THROUGH PRECAST MEMBERS. HOLES LESS THAN 8" SHALL BE CUT BY THE TRADE INVOLVED WITH THE APPROVAL OF THE PRECAST SUPPLIER.
 10. PRECAST MEMBERS SHALL BE ERECTED SIMULTANEOUSLY ON EACH SIDE OF SUPPORTING WALLS AND BEAMS TO MAINTAIN STABILITY.
 11. PRECAST SUPPLIER SHALL PROVIDE INSERTS AND ANCHORS IN PRECAST CONCRETE UNITS FOR SUPPORT OF MECHANICAL AND ELECTRICAL EQUIPMENT AND/OR ARCHITECTURAL ITEMS. VERIFY LOCATIONS WITH APPROPRIATE TRADE.

- LIGHT GAUGE FRAMING NOTES: (CONT.)
8. STRUCTURAL FRAMING MEMBERS SHALL CONFORM TO ASTM C56 & HAVE ENGINEERING PROPERTIES CALCULATED IN CONFORMANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
 9. NO NOTCHING OF STUDS, JOISTS, BEAMS OR TRUSS MEMBERS IS PERMITTED WITHOUT THE ENGINEERS APPROVAL.
 10. WEB PLANS SHALL NOT BE LOCATED @ A MIN. 1" CLEAR FROM ALL BEARING LOCATIONS.
- VERTICAL STRUCTURAL PANEL SHEETING (LIGHT GAUGE FRAMING):
- GENERAL:
1. FASTENERS SHALL NOT BE LOCATED LESS THAN 3/8" IN FROM THE EDGE OF THE PANEL.
 2. SCREWS SHALL BE OF SUFFICIENT LENGTH TO ENSURE PENETRATION INTO THE STEEL STUD BY AT LEAST THREE EXPOSED THREADS.
 3. STUDS SHALL BE DOUBLED (BACK-TO-BACK) AT BEARING WALL ENDS.
 4. STUDS SHALL BE A MINIMUM 60520-54 WITH A 1/2" RETURN LIP.
 5. TRACK SHALL BE A MINIMUM 60125-54.
 6. BOTH STUDS AND TRACK SHALL BE A MINIMUM UNCOATED BASE METAL THICKNESS OF 0.033 INCH (18 GAUGE) AND SHALL BE ASTM A 653, 792, OR 875 S55 GRADE 33 (U.O.N.).
 7. FRAMING FASTENERS SHALL BE A MINIMUM No. 8 x 9/8" WAFER HEAD SELF DRILLING.
 8. NO PANEL LESS THAN 12" WIDE SHALL BE USED.
 9. ALL PANEL EDGES SHALL BE FULLY BLOCKED. WHERE HORIZONTAL STRAP BLOCKING IS USED, IT SHALL BE A MINIMUM 1 1/2" WIDE & OF THE SAME MATERIAL & THICKNESS AS THE TRACK & STUDS.
 10. PANEL EDGES SHALL BUTT ALONG THE CENTERLINE OF FRAMING MEMBERS.

- WOOD SHEATHING:
1. 7/16" APA EXPOSURE 1, RATED SHEATHING W/ 3216 SPAN RATING (U.O.N.).
 2. SHEATHING FASTENERS SHALL BE MINIMUM #8 FLAT HEAD W/ MINIMUM HEAD DIMENSION OF 0.32" IN ACCORDANCE W/ SAE J78. SEE GENERAL NOTE #2 FOR LENGTH.
 3. FRAMING SHALL BE MAXIMUM 2" O.C. UNLESS SPECIFIC NOTES AND/OR DETAILS ARE MORE STRICT.
 4. SPACE SCREWS @ 8" O.C. ALONG ALL PANEL EDGES (U.O.N.).
 5. SPACE SCREWS @ 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS (U.O.N.).
 6. PANELS MAY BE INSTALLED EITHER PARALLEL OR PERPENDICULAR TO FRAMING.
 7. OFFSET PANEL JOINTS ON A SIDE OF WALL MINIMUM 1 STUD BAY.
 8. FASTENER REQUIREMENTS SHALL APPLY TO ALL STUDS, TOP & BOTTOM TRACKS, & BLOCKING.
 9. EACH PANEL SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE AMERICAN PL WOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF THE PRODUCT STANDARD (APA). APPLICATION AND MARKING OF PLYWOOD SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN WOOD ASSOCIATION TABLE 2.08.1.1 "FASTENING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE UNLESS OTHER REQUIREMENTS NOTED ON THE PLAN ARE MORE STRICT.

- GYPSUM BOARD SHEATHING:
1. 5/8" GYPSUM WALL BOARD ON BOTH SIDES OF WALL (TYP. - U.O.N.).
 2. FRAMING SHALL BE MAXIMUM 2" O.C. UNLESS SPECIFIC NOTES AND/OR DETAILS ARE MORE STRICT.
 3. SPACE SCREWS @ 7" O.C. ALONG ALL PANEL EDGES & INTERMEDIATE FRAMING MEMBERS (FIELD OF PANEL).
 4. SOLID BLOCKING REQUIRED BEHIND THE HORIZONTAL JOINT BETWEEN THE FIRST TWO END STUDS.
 5. DRYWALL SCREWS SHALL BE MINIMUM #6 IN ACCORDANCE W/ ASTM C 954. SEE GENERAL NOTE #2 FOR LENGTH.
 6. END JOINTS OF ADJACENT COURSES OF GYPSUM BOARD SHEETS SHALL NOT OCCUR OVER THE SAME STUD.
 7. GYPSUM BOARD SHEETS SHALL BE APPLIED PERPENDICULAR TO STUDS.
 8. FASTENER REQUIREMENTS SHALL APPLY TO ALL STUDS, TOP & BOTTOM TRACKS, & BLOCKING.

- ENGINEERED WOOD NOTES:
1. PROVIDE ALL LAMINATED WOOD BEAMS, PURLINS, AND SOLID DECKING AS SHOWN ON PLANS AND DETAILS.
 2. POSTS AND BEAMS CONSTRUCTED OF MULTIPLE LAMINATED VENEER LUMBER MEMBERS SHALL BE FASTENED TOGETHER ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
 3. LAMINATED WOOD FABRICATOR SHALL BE AN ATC MEMBER AND SHALL FABRICATE ACCORDING TO ATC SPECIFICATIONS.
 4. LAMINATED WOOD SUPPLIER SHALL FURNISH ALL HANGERS, HARDWARE & ACCESSORIES FOR ALL CONNECTIONS ASSOCIATED WITH LAMINATED WOOD MEMBERS (U.O.N.).
 5. SEE ARCHITECTURAL DETAILS AND SPECIFICATIONS FOR MATERIAL, TYPE AND FINISHES, UNLESS OTHERWISE NOTED.
 6. ALL LAMINATED FRAMING MEMBERS ARE SPECIFIED AS DOUG-FIR COMBINATION 24FV4 - SOUTHERN PINE COMBINATION 24FV4 MAY BE USED WITH EQUIVALENT DESIGN VALUES & SECTION PROPERTIES.
 7. STRUCTURAL STEEL SUPPLIER SHALL FURNISH ALL REMAINING WOOD TO STEEL CONNECTIONS. HANGERS AND HARDWARE WHICH ARE REQUIRED TO COMPLETE THE ERECTION OF THE LAMINATED WOOD.
 8. LAMINATED WOOD MANUFACTURER AND STRUCTURAL STEEL SUPPLIER SHALL COORDINATE ALL CONNECTION DETAILS PRIOR TO FABRICATION.
 9. PROVIDE STANDARD CAMBER AT ALL ROOF BEAMS AND PURLINS.
 10. GLU-LAM MEMBERS SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

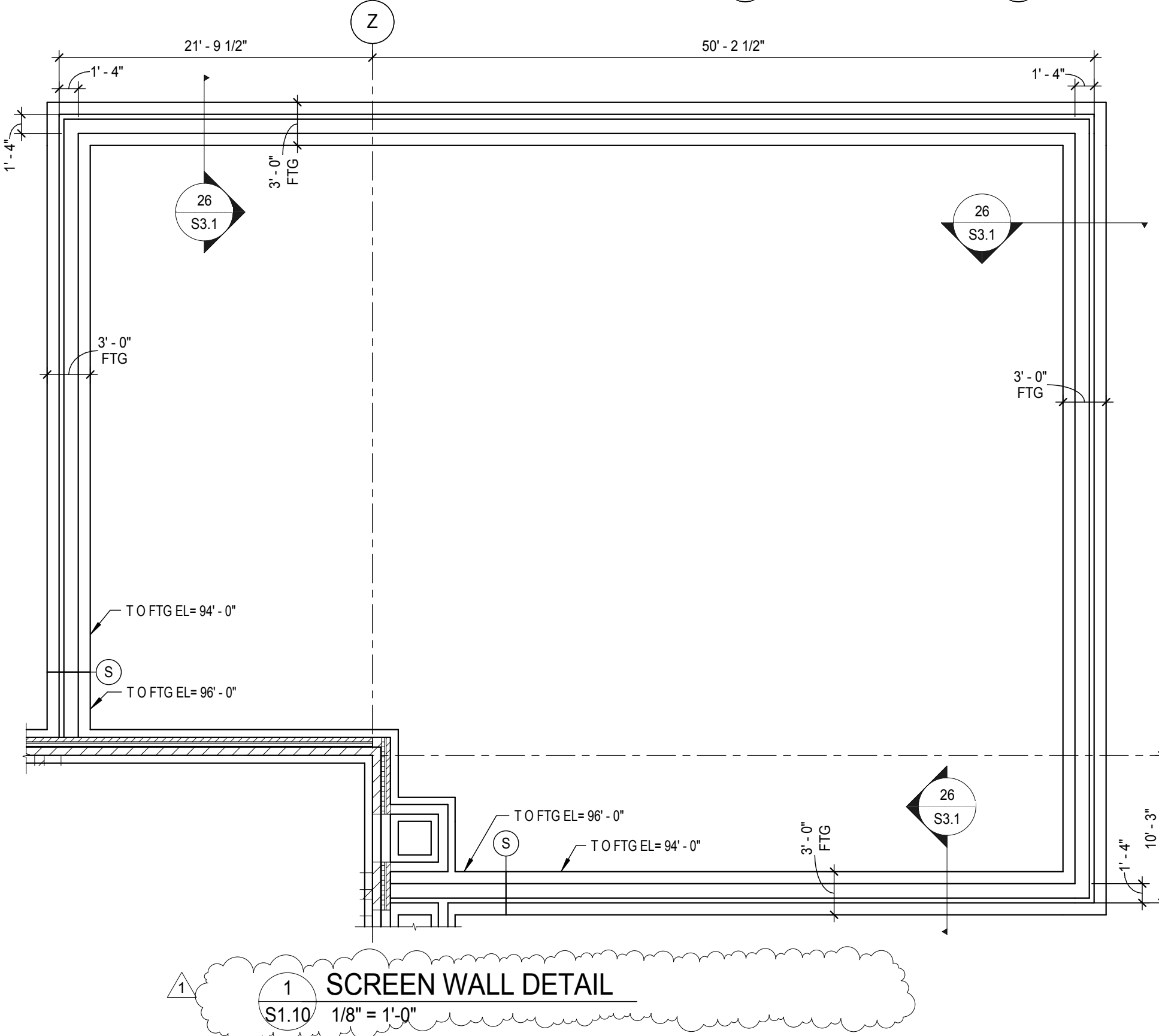
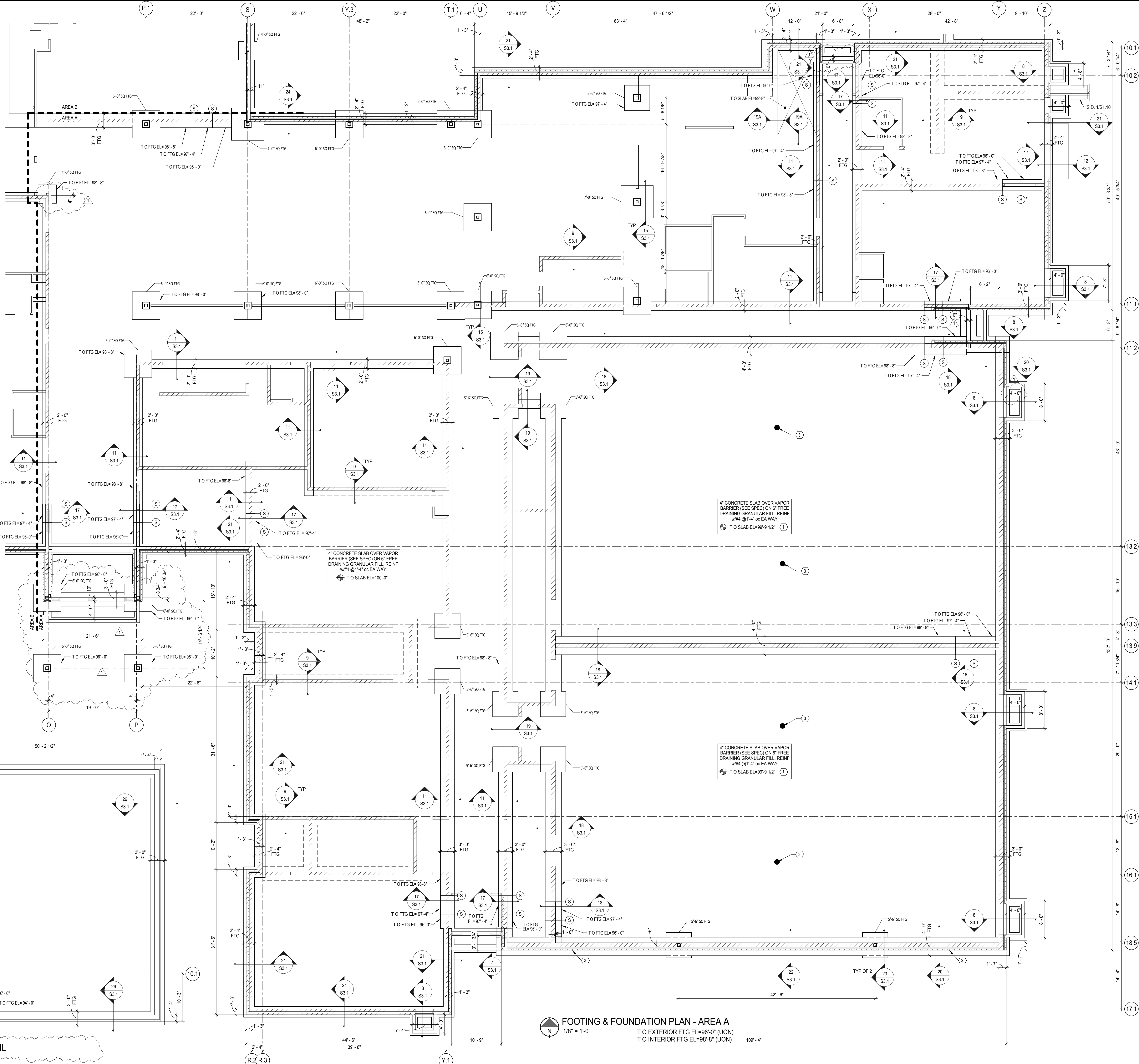
Fy = 2400 psi - BENDING	
Fv = 165 psi - SHEAR	
Fc = 1600 psi - COMPRESSION PARALLEL TO GRAIN	
E = 1800 psi - MODULUS OF ELASTICITY	

- PRECAST PRESTRESSED CONCRETE NOTES:
1. PRECAST CONCRETE UNITS SHALL BE DESIGNED TO SUPPORT THE SUPERIMPOSED LOADS AS INDICATED ON THE CONTRACT DOCUMENTS FOR THE SPANS INDICATED. DESIGN SHALL BE IN ACCORDANCE WITH THE ACI 318 AND UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER. ADDITIONAL LOADS SUCH AS SNOW DRIFT, LOADING AND LOADS FROM ALL OTHER DISCIPLINES SHALL BE THE RESPONSIBILITY OF THE P.C. ENGINEER.
 2. SEE SPECIFICATIONS FOR CONCRETE AND REINFORCING REQUIREMENTS.
 3. VERIFY SIZE, NUMBER AND LOCATION OF OPENINGS WITH THE MECHANICAL, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL PLANS.
 4. PRECAST SUPPLIER TO SHOW FIELD ANCHORAGE REQUIREMENTS ON SUBMITTED SHOP DRAWINGS.
 5. PRECAST MEMBERS HAVE BEEN INDICATED ON THE DRAWINGS BY GENERAL SIZE AND DEPTH. THE STRUCTURAL ANALYSIS AND DESIGN OF THESE ITEMS, AS WELL AS LIFTING DEVICES FOR PRE-STRESSED CONCRETE MEMBERS, SHALL BE PERFORMED BY THE PRECAST MANUFACTURER.

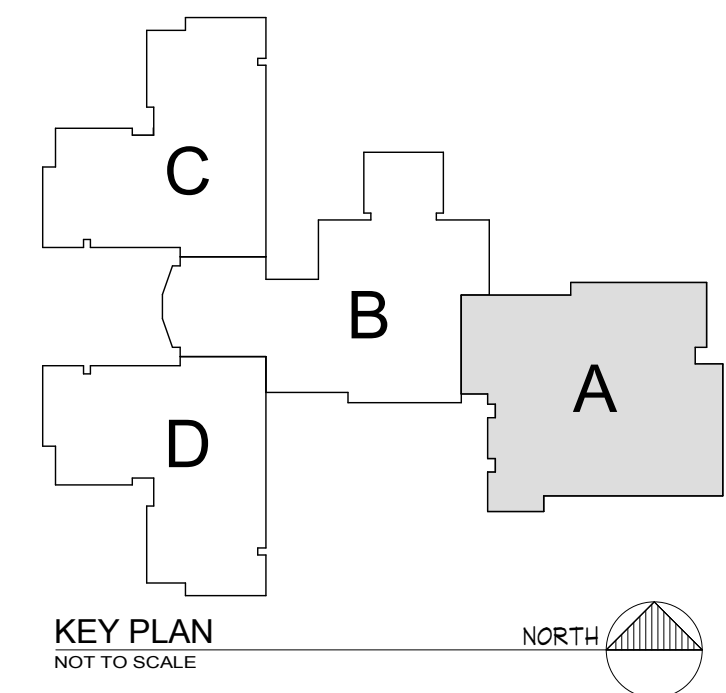
A. DESIGN DEVIATIONS WILL BE PERMITTED AFTER THE ARCHITECTS APPROVAL OF THE MANUFACTURERS PROPOSED DESIGN SUPPORTED BY CALCULATIONS AND DRAWINGS	
B. DESIGN DEVIATIONS MUST PRODUCE AN INSTALLATION EQUIVALENT TO THE BASIC INTENT WITHOUT INCURRING ADDITIONAL COSTS TO THE OWNER	
C. ALL REQUIRED MATERIALS SHALL BE SUITABLE FOR THE PURPOSE INTENDED AND SUBJECT TO PRIOR APPROVAL BY THE ARCHITECT.	
 6. PRECAST SUPPLIER SHALL PROVIDE INSERTS & ANCHORS IN PRECAST CONC. UNITS FOR SUPPORT OF MECHANICAL & ELECTRICAL EQUIPMENT OR ARCHITECTURAL ITEMS. VERIFY LOCATIONS IN ARCHITECT.
 7. ALL SUBMITTAL DRAWINGS AND

- KEYNOTES:
1. VERIFY ELEVATION OF GYM SLAB w/SPORT FLOORING MANUFACTURER.
 2. FUTURE DOOR OPENING - SEE ARCH.
 3. CONTRACTOR TO VERIFY LOCATION AND SIZE OF VOLLEYBALL STANDARD INSERTS. CONTRACTOR TO COORDINATE w/VOLLEYBALL STANDARD SUPPLIER.
 4. RECESSED FLOOR SLAB FOR FREEZER. COORDINATE w/FREEZER MANUFACTURER DETAILS FOR RECESSED SLAB ELEVATION & EXTENTS. S.D. 194S3.1

FOOTING SCHEDULE				
SIZE	DEPTH	TRANS	LONG	REMARKS
1'-0" CONT FTG	1'-0"	#4 @9'-0"	(2) #5	
2'-0" CONT FTG	1'-0"	#4 @9'-0"	(2) #5	
2'-4" CONT FTG	1'-0"	#4 @9'-0"	(3) #5	
3'-0" CONT FTG	1'-0"	#5 @7'-4"	(3) #5	
3'-6" CONT FTG	1'-0"	#5 @7'-4"	(4) #5	
4'-0" CONT FTG	1'-0"	#5 @7'-4"	(4) #5	
3'-6" SQ FTG	1'-0"	#5 @2'-6"	(4) #5	
4'-0" SQ FTG	1'-0"	(5) #5	(5) #5	
4'-6" SQ FTG	1'-0"	(5) #5	(5) #5	
5'-0" SQ FTG	1'-0"	(6) #5	(6) #5	
6'-0" SQ FTG	1'-2"	(7) #5	(7) #5	
7'-0" SQ FTG	1'-6"	(8) #5	(8) #5	



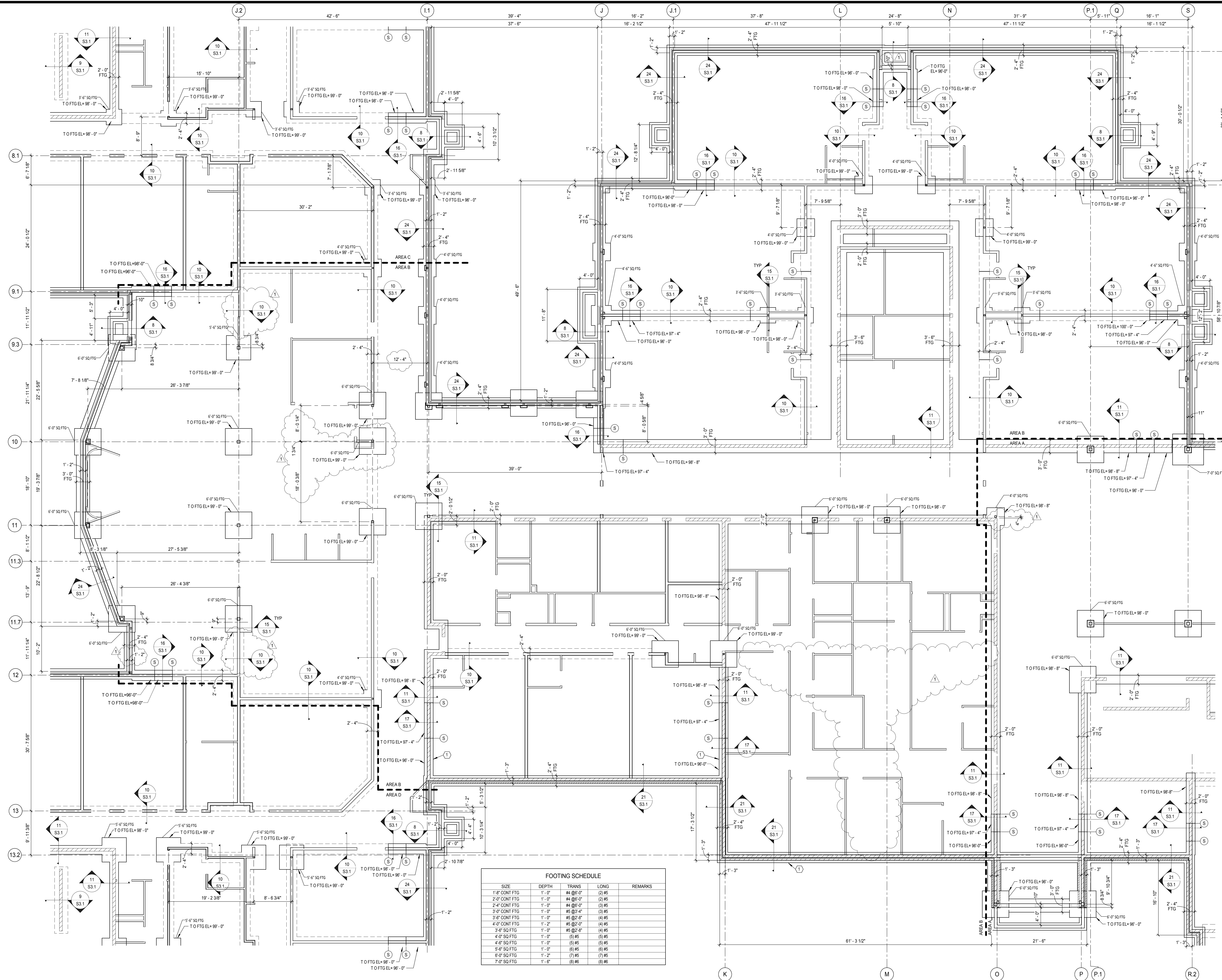
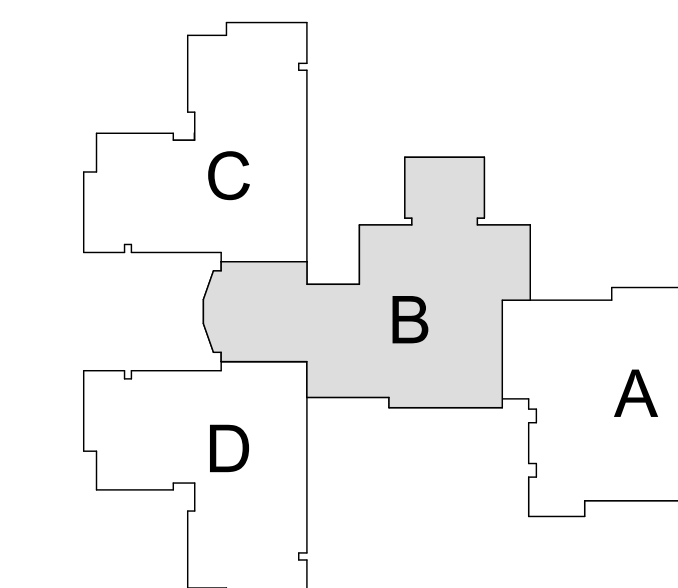
- SHEET NOTES:
1. VERIFY ALL DIMENSIONS w/ARCHITECTURAL DWGS, WHICH SHALL BE GOVERNING.
 2. SEE SHEET S0.1 FOR GENERAL NOTES.
 3. (S) STEPPED FOOTING - S.D. 15S3.1.
 4. COORDINATE SIZE, NUMBER & LOCATIONS OF MECHANICAL & ELECTRICAL PENETRATIONS THRU CONC SLAB & FDN.
 5. SEE CONCRETE NOTE #13 ON S0.1 FOR CJ/CJJ LAYOUT INFORMATION.
 6. GROUT ALL CMU SOLID BELOW GRADE.
 7. CONTRACTOR TO COORDINATE NUMBER & ELEVATIONS OF ALL FLOOR DRAINS w/MECHANICAL. SLOPE SLABS TO DRAIN.



BID GROUP 1

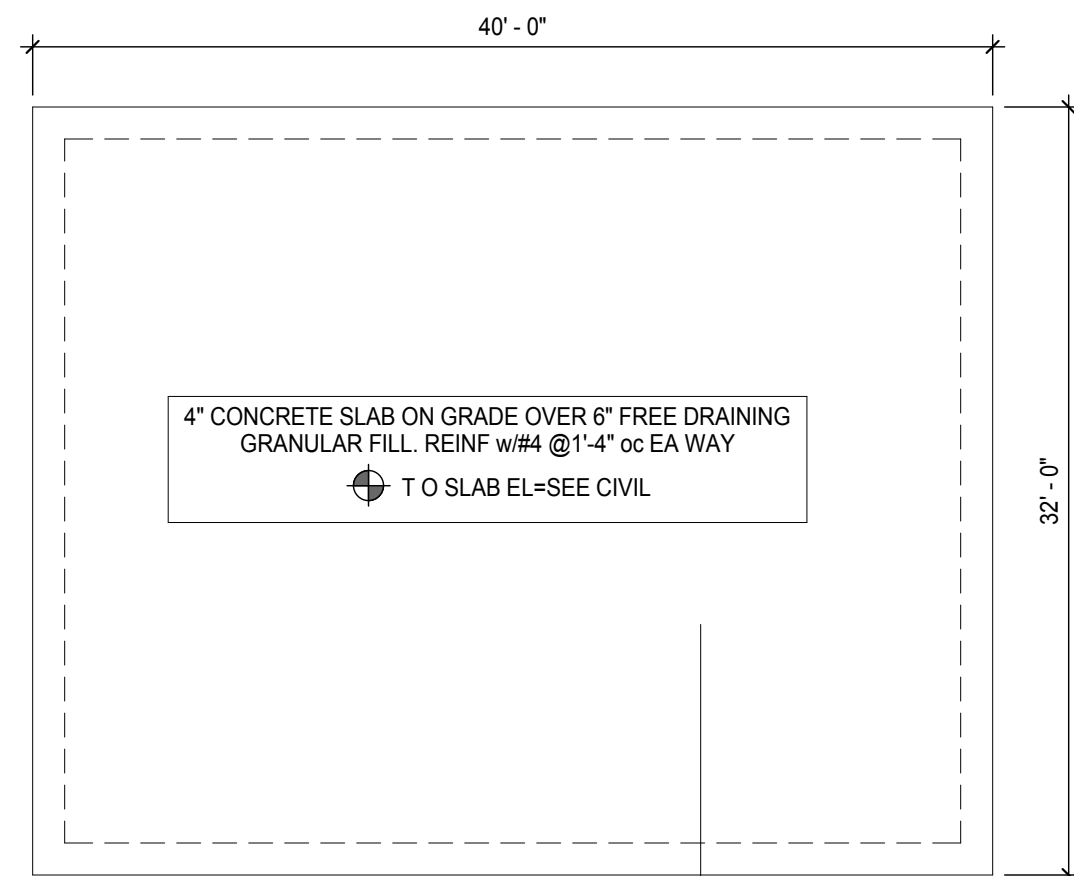
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: [Signature]
Date: 04/14/2016 Registration No. 41855

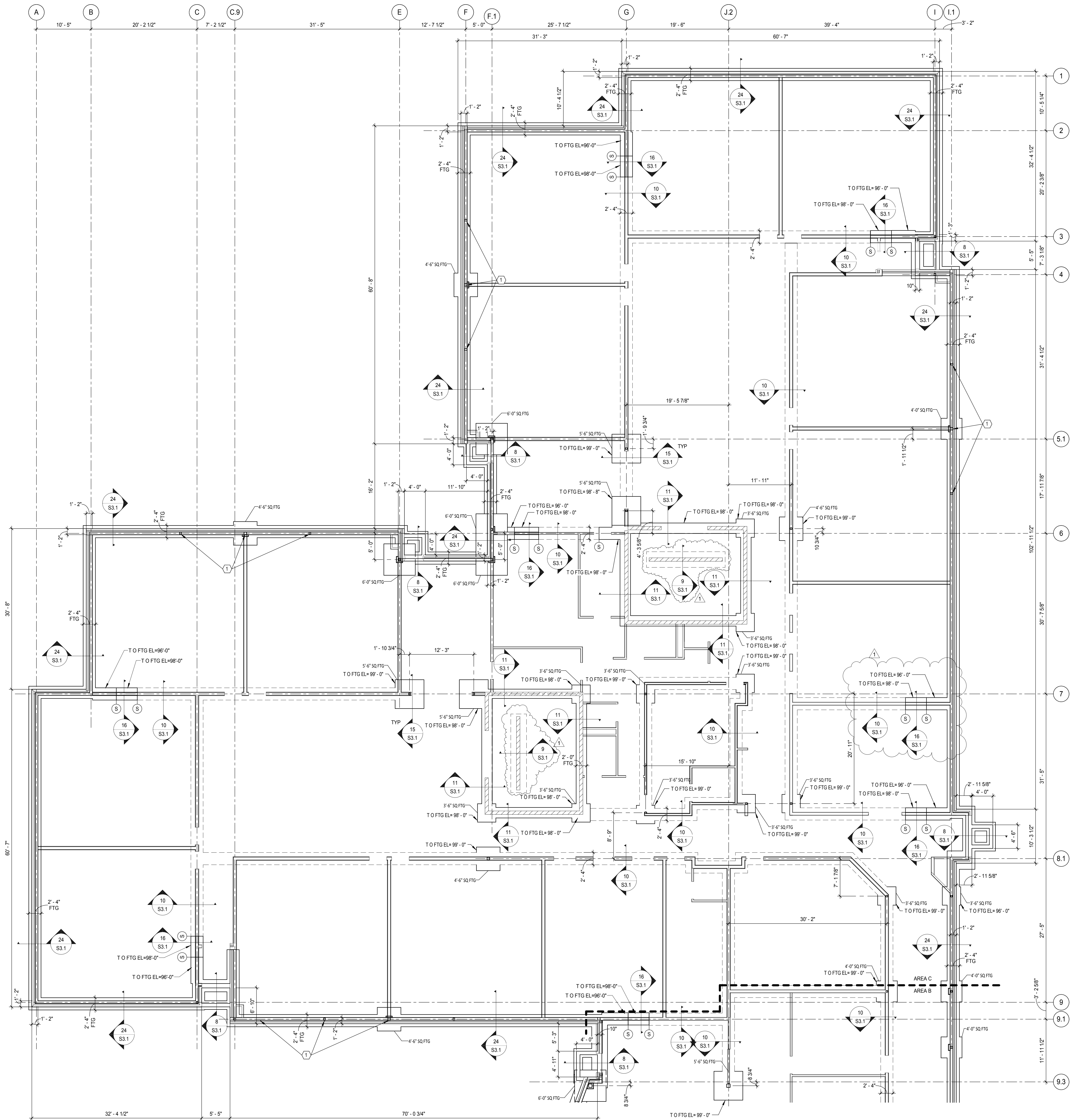


KEYNOTES:
(1) S.D. 14S3.1 FOR HEADER COLUMN BASE PL DETAIL.

FOOTING SCHEDULE				
SIZE	DEPTH	TRANS	LONG	REMARKS
1'-0" CONT FTG	1'-0"	#4 @8'-0"	(2) #5	
2'-0" CONT FTG	1'-0"	#4 @8'-0"	(2) #5	
2'-4" CONT FTG	1'-0"	#4 @8'-0"	(3) #5	
3'-0" CONT FTG	1'-0"	#5 @3'-4"	(3) #5	
3'-6" CONT FTG	1'-0"	#5 @2'-8"	(4) #5	
4'-0" CONT FTG	1'-2"	#5 @2'-0"	(4) #5	
3'-6" SQ FTG	1'-0"	#5 @2'-8"	(4) #5	
4'-0" SQ FTG	1'-0"	(5) #5	(5) #5	
4'-6" SQ FTG	1'-0"	(5) #5	(5) #5	
5'-0" SQ FTG	1'-0"	(6) #5	(6) #5	
6'-0" SQ FTG	1'-2"	(7) #5	(7) #5	
7'-0" SQ FTG	1'-6"	(8) #5	(8) #5	



1 OUT BUILDING FDN DETAIL
S1.12 1/8" = 1'-0"
NOTE:
1. OUT BUILDING FOUNDATION IS NOT PROTECTED FROM FROST.
2. VERIFY DIMENSION w/ARCHITECTURE & SITE LOCATION WITH CIVIL.



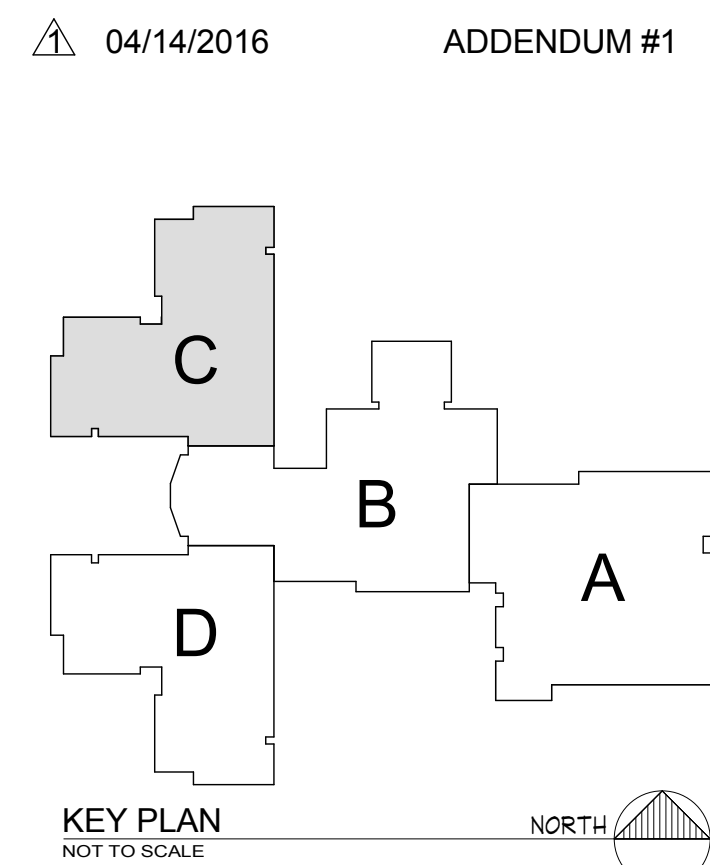
FOOTING & FOUNDATION PLAN - AREA C
1/8" = 1'-0"
T O EXTERIOR FTG EL = 96'-0" (UON)
T O INTERIOR FTG EL = 98'-8" (UON)

ZERR BERG
ARCHITECTS
510 NORTH 4TH AVENUE, FARGO, ND 58102-4821
701.280.0167 • FAX 701.280.9021

gehrtz
CONSTRUCTION SERVICES

HEYER ENGINEERING
Structural Consultant
1020 36th Street SW Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

- SHEET NOTES:**
1. VERIFY ALL DIMENSIONS w/ARCHITECTURAL DWGS, WHICH SHALL BE GOVERNING.
 2. SEE SHEET S0.1 FOR GENERAL NOTES.
 3. (S) STEPPED FOOTING - S.D. 1/S3.1.
 4. COORDINATE SIZE, NUMBER & LOCATIONS OF MECHANICAL & ELECTRICAL PENETRATIONS THRU CONC SLAB & FDN.
 5. SEE CONCRETE NOTE #13 ON S0.1 FOR CJ/CJ LAYOUT INFORMATION.
 6. GROUT ALL CMU SOLID BELOW GRADE.
 7. CONTRACTOR TO COORDINATE NUMBER & ELEVATIONS OF ALL FLOOR DRAINS w/MECHANICAL SLOPE SLABS TO DRAIN.



BID GROUP 1

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 Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature:
Date: 04/14/2016 Registration No. 41855

MOORHEAD
MOORHEAD AREA PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
4400 24th Avenue S
Moorhead, MN 56500

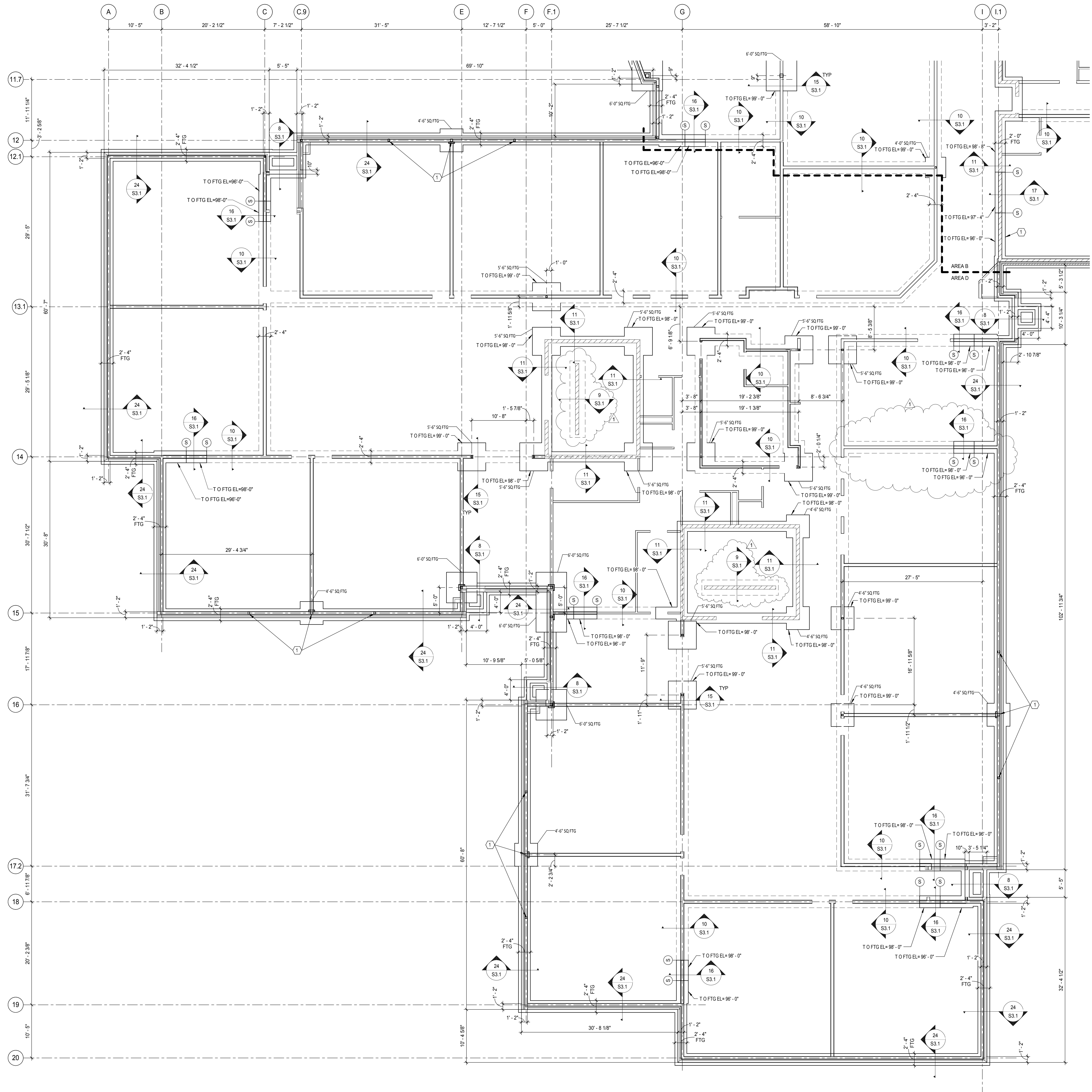
FOOTING & FOUNDATION PLAN - AREA C

Project No.: 15-032
Date: 04/14/2016

S1.12

KEYNOTES:
① S.D. 14S3.1 FOR HEADER COLUMN BASE PL DETAIL.

FOOTING SCHEDULE				
SIZE	DEPTH	TRANS	LONG	REMARKS
1'-8" CONT FTG	1'-0"	#4 @6'-0"	(2) #5	
2'-0" CONT FTG	1'-0"	#4 @6'-0"	(2) #5	
2'-4" CONT FTG	1'-0"	#4 @6'-0"	(3) #5	
3'-0" CONT FTG	1'-0"	#5 @3'-4"	(3) #5	
3'-6" CONT FTG	1'-0"	#5 @2'-8"	(4) #5	
4'-0" CONT FTG	1'-2"	#5 @2'-0"	(4) #5	
3'-4" SQ FTG	1'-0"	#5 @2'-4"	(4) #5	
4'-0" SQ FTG	1'-0"	(5) #5	(5) #5	
4'-6" SQ FTG	1'-0"	(6) #5	(6) #5	
5'-0" SQ FTG	1'-0"	(7) #5	(7) #5	
6'-0" SQ FTG	1'-2"	(7) #5	(7) #5	
7'-0" SQ FTG	1'-6"	(8) #5	(8) #5	



FOOTING & FOUNDATION PLAN - AREA D
1/8" = 1'-0"
T O EXTERIOR FTG EL= 96'-0" (UON)
T O INTERIOR FTG EL= 98'-8" (UON)

ZERR BERG
ARCHITECTS

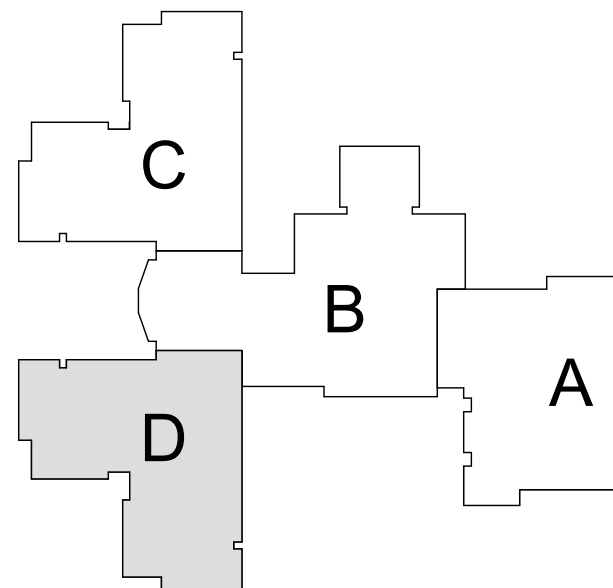
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701.280.0167 FAX 701.280.0021

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1020 36th Street SW Fargo, ND 58103
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- SHEET NOTES:
1. VERIFY ALL DIMENSIONS w/ARCHITECTURAL DWGS, WHICH SHALL BE GOVERNING.
 2. SEE SHEET S0.1 FOR GENERAL NOTES.
 3. ③ STEPPED FOOTING - S.D. 1S3.1.
 4. COORDINATE SIZE, NUMBER & LOCATIONS OF MECHANICAL & ELECTRICAL PENETRATIONS THRU CONC SLAB & FDN.
 5. SEE CONCRETE NOTE #13 ON S0.1 FOR CUC/CJ LAYOUT INFORMATION.
 6. GROUT ALL CMU SOLID BELOW GRADE.
 7. CONTRACTOR TO COORDINATE NUMBER & ELEVATIONS OF ALL FLOOR DRAINS w/MECHANICAL. SLOPE SLABS TO DRAIN.

04/14/2016 ADDENDUM #1



KEY PLAN
NOT TO SCALE

BID GROUP 1

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 Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: [Signature]
Date: 04/14/2016 Registration No. 41855



MOORHEAD
MOORHEAD AREA PUBLIC
SCHOOLS
NEW ELEMENTARY
SCHOOL
4400 24th Avenue S
Moorhead, MN 56500

FOOTING & FOUNDATION PLAN - AREA D

Project No.: 15-032
Date: 04/14/2016

S1.13

KEYNOTES

1

SNOW DRIFT

122 PSF

42 PSF

16'-0"

2

SNOW DRIFT

150 PSF

42 PSF

20'-0"

3

8" HOLLOWCORE WITH 3" TOPPING, MECHANICAL FLOOR.
HC BRG EL=115'-4". HC SL LL=150 PSF

4

GLULAM TRUSS BEING DESIGNED & SUPPLIED BY SUPPLIER.
S.D. 354.3

5

ROOF DECK SHALL BE ER6 5A, 18 GA METAL DECK BY EPIC OR
EQUAL. FASTEN DECK USING 24# PATTERN W/12 TEK
SCREWS SIDELAP FASTENERS @2'-0" oc.

6

WBX18 CANT. S.D. 18S4.2

7

STEEL STAIR DESIGNED & SUPPLIED BY STAIR SUPPLIER.
SEE ARCH.

8

S.D. 16S4.1 FOR BEAM BRG. PROVIDE SLIP CONNECTION AT
ONE END. S.D. 17S4.1.

9

REIN# 12" CMU WALL W/2" #5 @2'-0" oc. S.D. 14S4.1 (PLACE
BARS 3/4" FROM EA FACE SHELL) @ SOUND BLOCK REIN#
W/2" #5 @2'-0" oc DOWN TO FND.

10

REIN# 12" CMU WALL W/2" #5 @4'-0" oc. S.D. 14S4.1 (PLACE
BARS 3/4" FROM EA FACE SHELL) @ SOUND BLOCK REIN#
W/2" #5 @2'-0" oc DOWN TO FND.

11

REIN# 12" CMU WALL W/2" #5 @1'-4" oc. S.D. 14S4.1 (PLACE
BARS 3/4" FROM EA FACE SHELL) @ SOUND BLOCK REIN#
W/2" #5 @2'-0" oc.

12

12" CMU WALL

HEADER SCHEDULE

MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/S4.4
H2	(2) 1000S200-68 w/L6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x6x1/4	6/S4.3
H4	(2) 1000S200-68	1	2	1/S4.4
H5	(2) 1000S200-68	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS6x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4

LINTEL SCHEDULE

MARK	LINTEL	DETAILS
L1	WBx10 w/L4x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/S4.1
L2	WBx18 w/L6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L3	WBx24 w/L6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L4	W12x26	15/S4.1
L5	W16x31 w/L6x4x3/8 LOOSE BRICK ANGLE	15/S4.1, 17/S4.1, 22/S4.1
L6	W16x31	15/S4.1, 17/S4.1
L7	WBx21	15/S4.1, 22/S4.1
L8	WBx10	15/S4.1
L9	WBx21 w/L7x4x3/8 LOOSE BRICK ANGLE	15/S4.1

MARK

LINTEL

DETAILS

L1

WBx10 w/L4x3 1/2 x 1/4 LOOSE BRICK ANGLE

15/S4.1

L2

WBx18 w/L6x4x5/16 LOOSE BRICK ANGLE

15/S4.1

L3

WBx24 w/L6x4x5/16 LOOSE BRICK ANGLE

15/S4.1

L4

W12x26

15/S4.1

L5

W16x31 w/L6x4x3/8 LOOSE BRICK ANGLE

15/S4.1, 17/S4.1, 22/S4.1

L6

W16x31

15/S4.1, 17/S4.1

L7

WBx21

15/S4.1, 22/S4.1

L8

WBx10

15/S4.1

L9

WBx21 w/L7x4x3/8 LOOSE BRICK ANGLE

15/S4.1

26

S3.1

SCREEN WALL PLAN

1

S2.20

1/8" = 1'-0"

12

S4.3

AREA A

AREA B

AREA C

AREA D

AREA E

AREA F

AREA G

AREA H

AREA I

AREA J

AREA K

AREA L

AREA M

AREA N

AREA O

AREA P

AREA Q

AREA R

AREA S

AREA T

AREA U

AREA V

AREA W

AREA X

AREA Y

AREA Z

1

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

2

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

3

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

4

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

5

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

6

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

7

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

8

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

9

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

10

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

11

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

12

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

13

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

14

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

15

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

16

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

17

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

18

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

19

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

20

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

21

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

22

S4.2

LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

JST BRG EL= 116'-8" (UON)

HOLLOWCORE BRG EL= 115'-4" (UON)

ZERR BERG
ARCHITECTS

510 NORTH 4TH AVENUE, FARGO, ND 58102-4521
701.280.0147 • FAX 701.280.0021

gehrtz
CONSTRUCTION SERVICES

HEYER ENGINEERING
Structural Consultant

1020 36th Street SW Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

SHEETS NOTES:

1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.

2. ALL ROOF DECK (UON) SHALL BE 1 1/2" TYPE 'B', 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 305 PATTERN W/12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.

3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.

4. REIN# ALL EXTERIOR CMU WALLS W/1" #5 @2'-8" oc (UON) (CENTER IN CELL). REIN# ALL INTERIOR CMU WALLS W/1" #5 @4'-0" oc (CENTER IN CELL).

5. MASON TO COORDINATE LOCATION OF ACOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM. SEE ARCH.

6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. 8/S4.1 & 9/S4.1 FOR FRAMING.

7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE REIN# REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.

8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.

9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.

10. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.

11. AT GYMNASIUM ROOF, ROOF DECK SHALL BE 3" TYPE, 18A-22 GA. 5Y VULCRAFT OR EQUAL. FASTEN DECK W/12 TEK SCREWS USING 244 PATTERN. USE (8) #10 SIDELAP FASTENERS PER SPAN. S.D. 6/S4.1.

12. S.D. 18/S4.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.

13. DENOTES MOMENT CONNECTION S.D. XXX

04/14/2016

ADDENDUM #1

C

B

A

D

KEY PLAN

NOT TO SCALE

NORTH

BID GROUP 1

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 Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff

Signature:

Date: 04/14/2016

Registration No. 41855

M

MOORHEAD

MOORHEAD AREA PUBLIC SCHOOLS

NEW ELEMENTARY SCHOOL

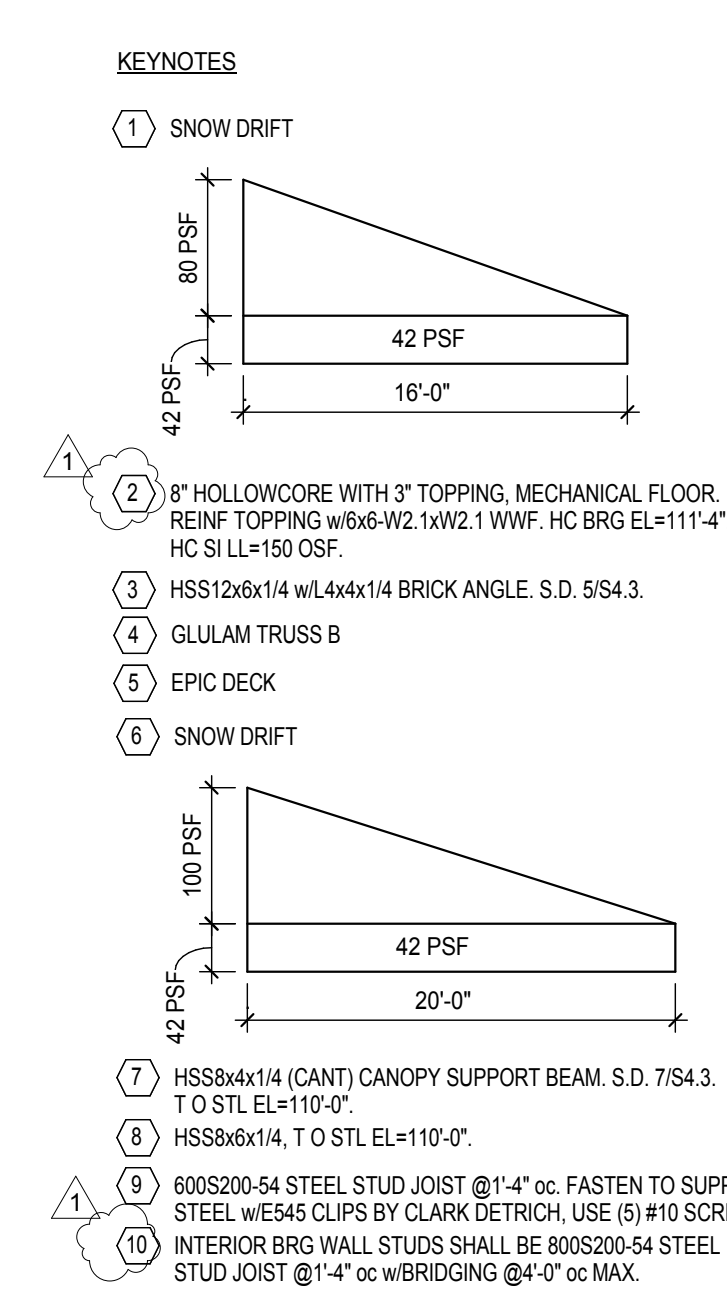
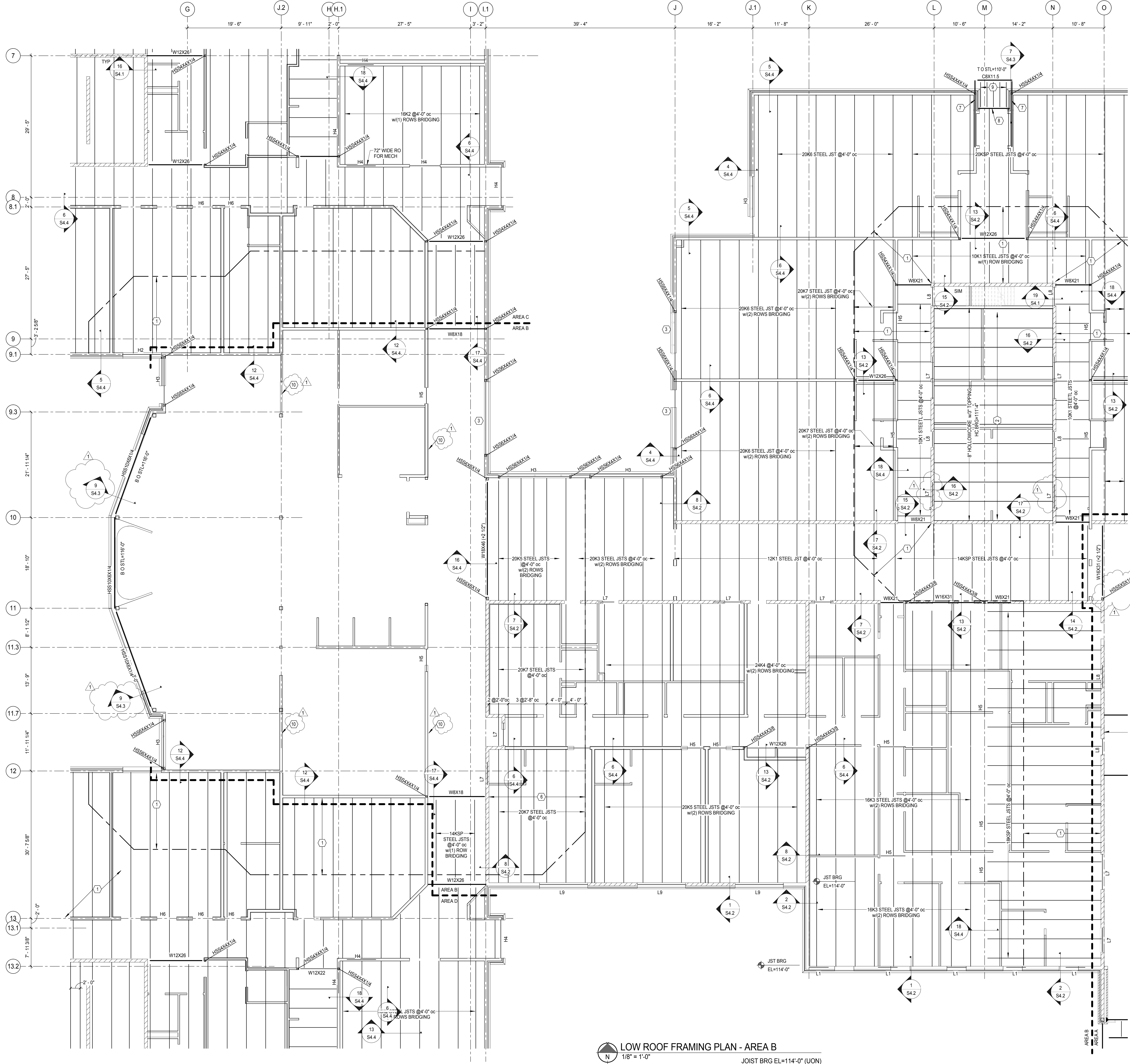
4400 24th Avenue S Moorhead, MN 56500

LOW ROOF FRAMING PLAN - AREA A

Project No.: 15-032

Date: 04/14/2016

S2.20



HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/54.4
H2	(2) 1000S200-68 w/L6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/54.4
H3	HSS12x14	N/A	HSS6x14	6/54.3
H4	(2) 1000S200-68	1	2	1/54.4
H5	(2) 1000S200-68	2	1	1/54.4
H6	(2) 800S200-54	1	1	1/54.4
H7	HSS8x14	2	1	1/54.4
H8	(2) 600S200-54	1	2	1/54.4

LINTEL SCHEDULE		
MARK	LINTEL	DETAILS
L1	W8x10 w/L4x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/54.1
L2	W8x18 w/L6x4x5/16 LOOSE BRICK ANGLE	15/54.1
L3	W8x24 w/L6x4x5/16 LOOSE BRICK ANGLE	15/54.1
L4	W12x26	15/54.1
L5	W16x31 w/L6x4x3/8 LOOSE BRICK ANGLE	15/54.1, 17/54.1, 22/54.1
L6	W16x31	15/54.1, 17/54.1
L7	W8x21	15/54.1, 22/54.1
L8	W8x10	15/54.1
L9	W8x21 w/L7x4x3/8 LOOSE BRICK ANGLE	15/54.1

ZERR BERG ARCHITECTS

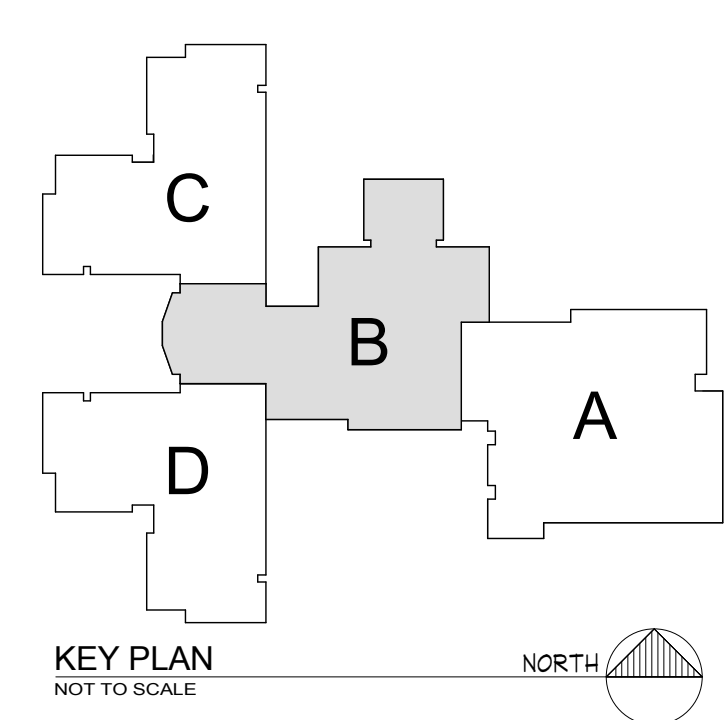
510 NORTH 4TH AVENUE, FARGO, ND 58102-4821
701.280.0167 FAX 701.280.0021

gehartz CONSTRUCTION SERVICES

HEYER ENGINEERING Structural Consultant
1020 36th Street SW Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

- SHEETS NOTES:**
1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
 2. ALL ROOF DECK (UON) SHALL BE 1 1/2" TYPE 'B' 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 3/8" PATTERN w/#12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 4. REIN. ALL EXTERIOR CMU WALLS w/(1) #5 @2'-8" OC (UON) (CENTER IN CELL). REIN. ALL INTERIOR CMU WALLS w/(1) #5 @4'-0" OC (CENTER IN CELL).
 5. MASON TO COORDINATE LOCATION OF ACCOUSTICAL BLOCKS TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN CVM. SEE ARCH.
 6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. X/SXXX FOR FRAMING.
 7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REIN. REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL CONTRACTOR.
 9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" OC OR EQUAL.
 10. S.D. 18/54.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.

04/14/2016 ADDENDUM #1



BID GROUP 1

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 Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: *[Signature]*
Date: 04/14/2016 Registration No. 41855

MOORHEAD

MOORHEAD AREA PUBLIC SCHOOLS

NEW ELEMENTARY SCHOOL

4400 24th Avenue S
Moorhead, MN 56500

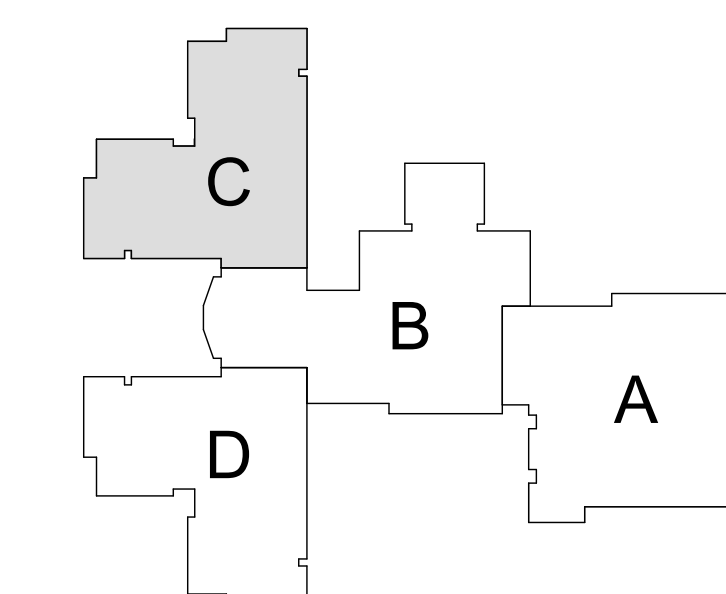
LOW ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"
JOIST BRG EL+114'-0" (UON)

LOW ROOF FRAMING PLAN - AREA B

SHEETS NOTES

1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
2. ALL ROOF DECK (UCN) SHALL BE 1 1/2" TYPE III, 22 GA METAL DECK BY VULCANIT OR EQUIV. FASTEN DECK JOISTS WITH PATTERN WITH TENSILE SCREW, USE #10 TEK SCREWS, USE #10 TEK SCREWS SIDE LAP, FASTENERS PER SPAN.
3. SEE SHEET S01 FOR GENERAL STRUCTURE W/1.
4. REINFL ALL CONCRETE WALLS (1) w/5 #4 @ 4" oc (UCN) (CENTER IN CELL).
5. MASON TO COORDINATE LOCATION OF ACOUSTICAL BLOCK TO AVOID SOUND CORES AT JOIST BRG LOCATIONS IN WALLS.
6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. XXXXX FOR FRAMING.
7. SEE ARCHITECTURAL DWG'S FOR SOUND BLOCK LOCATIONS. NOTE CMU REINFR REQUIREMENT ON THIS PAGE & AT SCHEDULE LOCATIONS.
8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINERS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600SD250-4 STD #14 @ 4" OC OR EQUAL.
10. S.D. 1854-4 FOR ALL NON-STRUCTURAL/NON-BRG INTERIORS. INTERIORS NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DOOR & PIPING PENETRATIONS.

1 04/14/2016 ADDENDUM #1



KEY PLAN
NOT TO SCALE

BID GROUP 1

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Print Name: Eric A Greiff
Signature: 
Date: 04/14/2016 Registration No. 41855



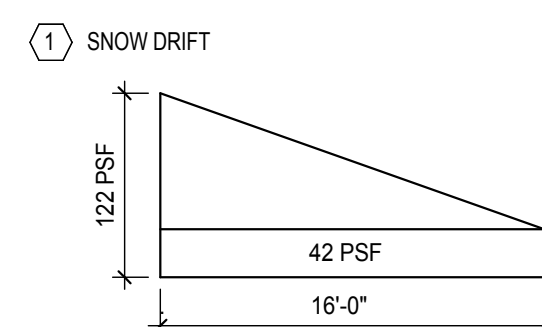
MOORHEAD
MOORHEAD AREA PUBLIC
SCHOOLS
**NEW ELEMENTARY
SCHOOL**
4400 24th Avenue S
Moorhead, MN 56560

LOW ROOF FRAMING PLAN - AREA C

Project No.: 15-032
Date: 04/14/2016

S2.22

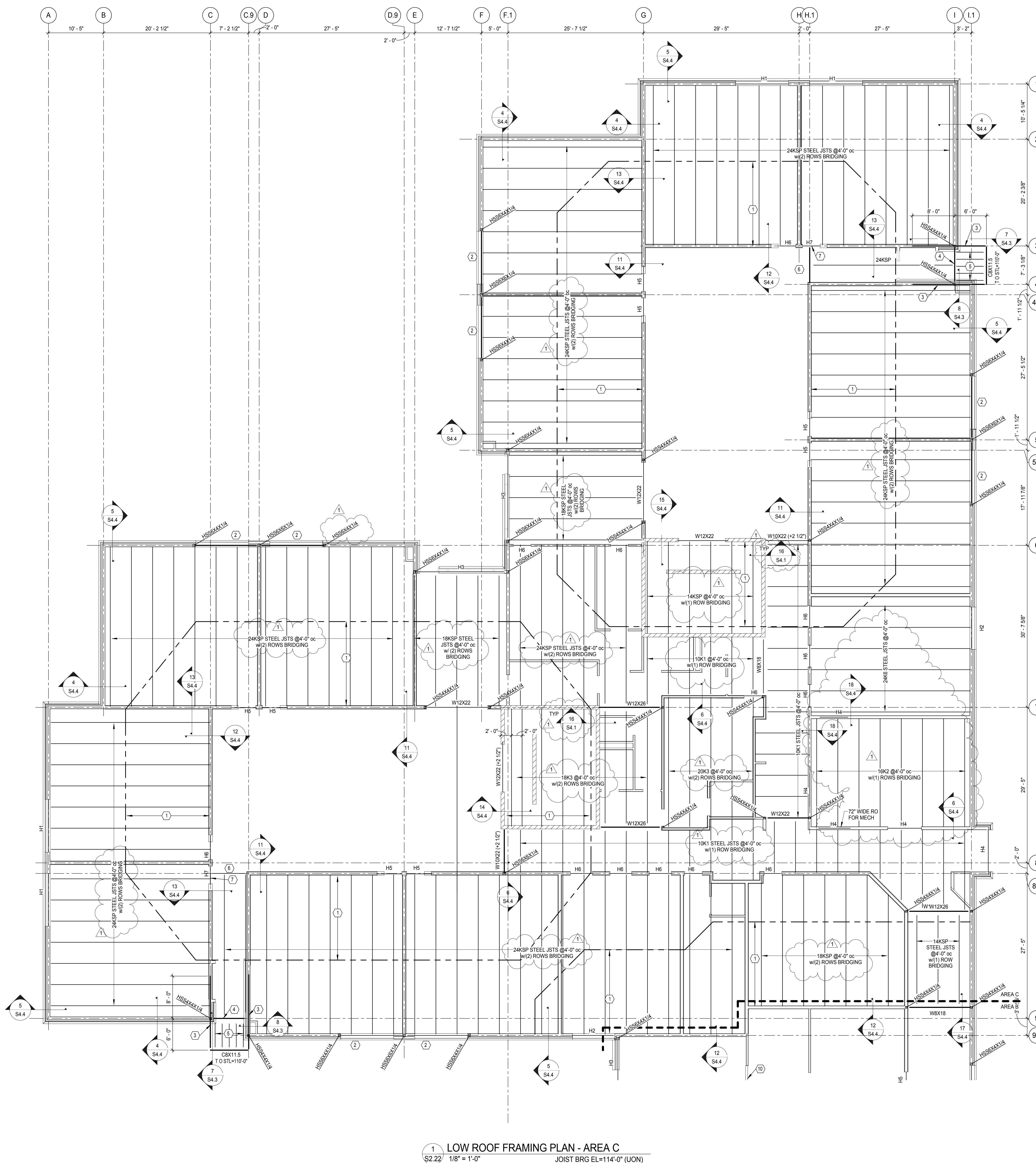
KEYNOTES



- (2) HSS12x6x1/4 w/ L4x6x1/4 BRICK ANGLE. S.D. 5/54.3.
- (3) HSS8x4x1/4 (CANT) CANOPY SUPPORT BEAM. S.D. 7/54.3.
T O STL EL=110'-0".
- (4) HSS8x6x1/4, T O STL EL=110'-0".
- (5) 600S200-54 STEEL STUD JOIST @1'-4" oc. FASTEN TO SUPPORT
STEEL w/ E545 CLIPS BY CLARK DETRICH, USE (5) #10 SCREWS
- (6) HSS8x6x1/4, T O STL EL=114'-0".
- (7) HSS3x3x1/4, CRIPPLE POST DOWN TO HEADER

HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 200S200-97	2	2	1/5.4
H2	(2) 1000S200-68 w/16x438 (LLV) LOOSE BRICK ANGLE	1	2	1/5.4
H3	HSS12x6x1/4	N/A	HSS8x4x1/4	6/5.4
H4	(2) 1000S200-68	1	2	1/5.4
H5	(2) 1000S200-68	2	1	1/5.4
H6	(2) 800S200-54	1	1	1/5.4
H7	HSS8x6x1/4	2	1	1/5.4
H8	(2) 600S200-54	1	2	1/5.4

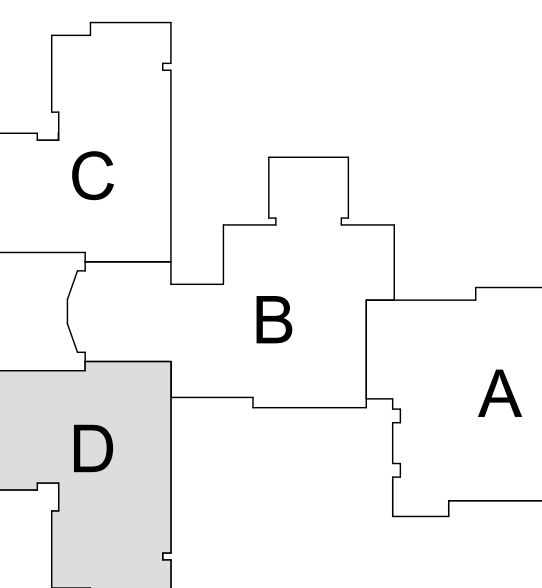
LINTEL SCHEDULE		
MARK	LINTEL	DETAILS
L1	W8x10 wL4x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/S4.1
L2	W8x10 wL6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L3	W8x24 wL6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L4	W12x26	15/S4.1
L5	W8x31 wL6x4x3/8 LOOSE BRICK ANGLE	15/S4.1, 17/S4.1, 22/S4.1
L6	W16x31	15/S4.1, 17/S4.1
L7	W8x21	15/S4.1, 22/S4.1
L8	W8x10	15/S4.1
L9	W8x21 wL7x4x3/8 LOOSE BRICK ANGLE	15/S4.1



1 LOW ROOF FRAMING PLAN - AREA C
\$2.22 1/8" = 1'-0" JOIST BRG EL=114'-0" (UON)

- SHEETS NOTES:**
1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
 2. ALL ROOF DECK (UON) SHALL BE 1 1/2" TYPE 'B', 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 305 PATTERN W/1/2" TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 4. REIN ALL CMU WALLS W/1) #5 @ 4'-0" oc (UON) (CENTER IN CELL).
 5. MASON TO COORDINATE LOCATION OF ACOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM, SEE ARCH.
 6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. 8 & 9/S4.1 FOR FRAMING.
 7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REIN REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
 9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 60S200-54 STUD @ 1'-4" oc OR EQUAL.
 10. S.D. 18/S4.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.

04/14/2016 ADDENDUM #1



KEY PLAN
NOT TO SCALE

BID GROUP 1

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Print Name: Eric A Greiff
Signature:
Date: 04/14/2016 Registration No. 41855



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SCHOOL
4400 24th Avenue S
Moorhead, MN 56500

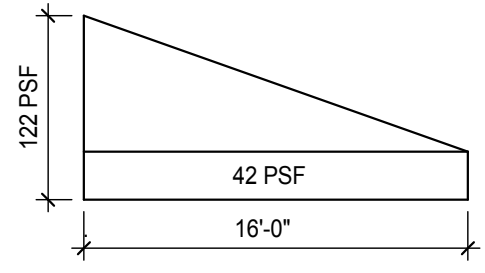
LOW ROOF FRAMING PLAN - AREA D

Project No.: 15-032
Date: 04/14/2016

S2.23

KEYNOTES

1 SNOW DRIFT



2 HSS12x6x1/4 w/L4x4x1/4 BRICK ANGLE, S.D. 5/S4.3

3 HSS8x4x1/4 (CANT) CANOPY SUPPORT BEAM, S.D. 7/S4.3
T O STL EL+110'-0"

4 HSS8x6x1/4, T O STL EL+110'-0"

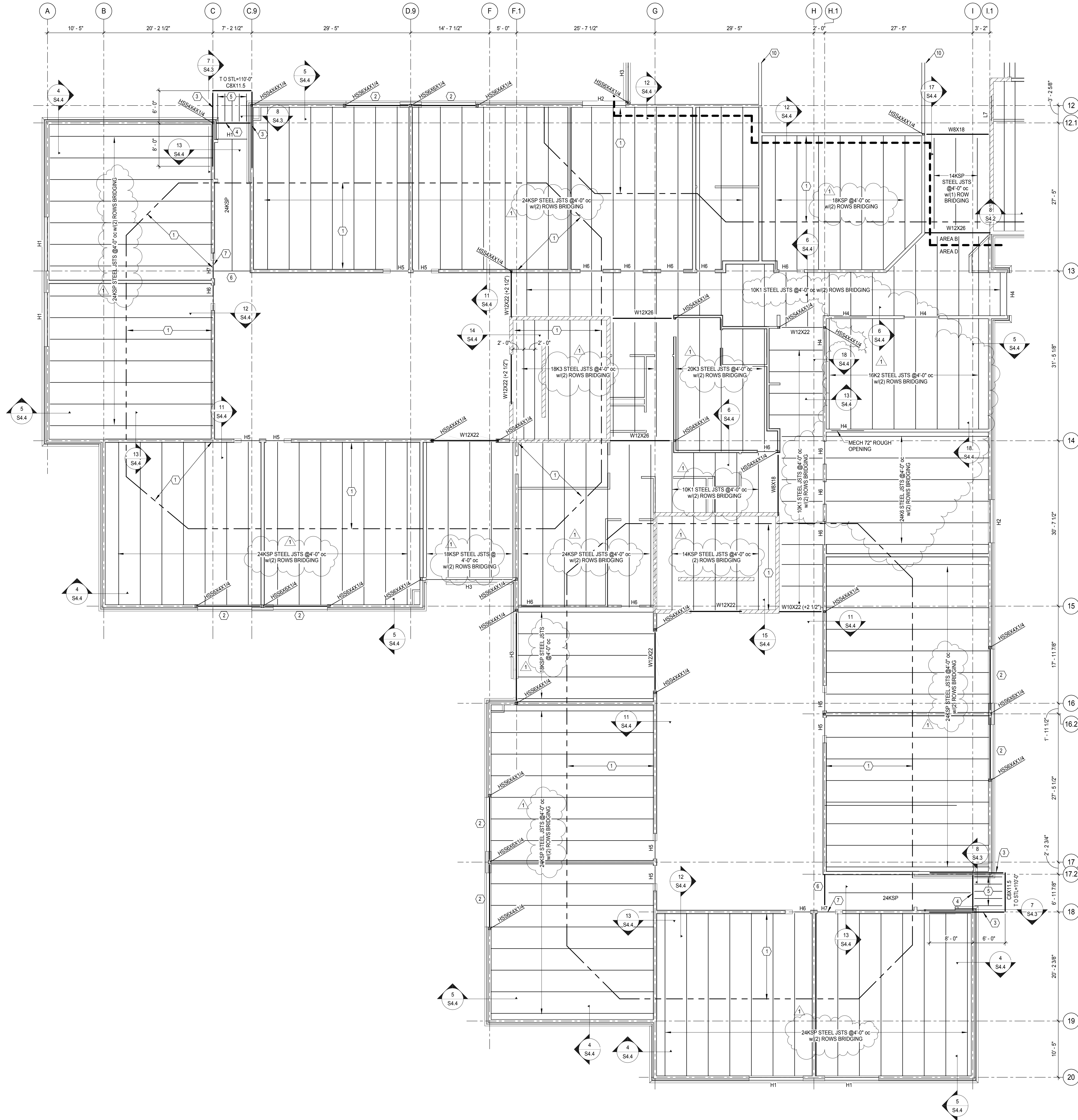
5 60S200-54 STEEL STUD JOIST @ 1'-4" oc, FASTEN TO SUPPORT STEEL w/E545 CLIPS BY CLARK DETRICH, USE (6) #10 SCREWS.

6 HSS8x6x1/4, T O STL EL+114'-0"

7 HSS30x1/4, CRIPPLE POST DOWN TO HEADER

HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/S4.4
H2	(2) 1000S200-68 w/L6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/S4.3
H4	(2) 1000S200-68	1	2	1/S4.4
H5	(2) 1000S200-68	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS8x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4

LINTEL SCHEDULE		
MARK	LINTEL	DETAILS
L1	W8x10 w/L4x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/S4.1
L2	W8x18 w/L8x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L3	W8x24 w/L8x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L4	W12x26	15/S4.1
L5	W16x31 w/L6x4x3/8 LOOSE BRICK ANGLE	15/S4.1, 17/S4.1, 22/S4.1
L6	W16x31	15/S4.1, 17/S4.1
L7	W8x21	15/S4.1, 22/S4.1
L8	W8x10	15/S4.1
L9	W8x21 w/L7x4x3/8 LOOSE BRICK ANGLE	15/S4.1



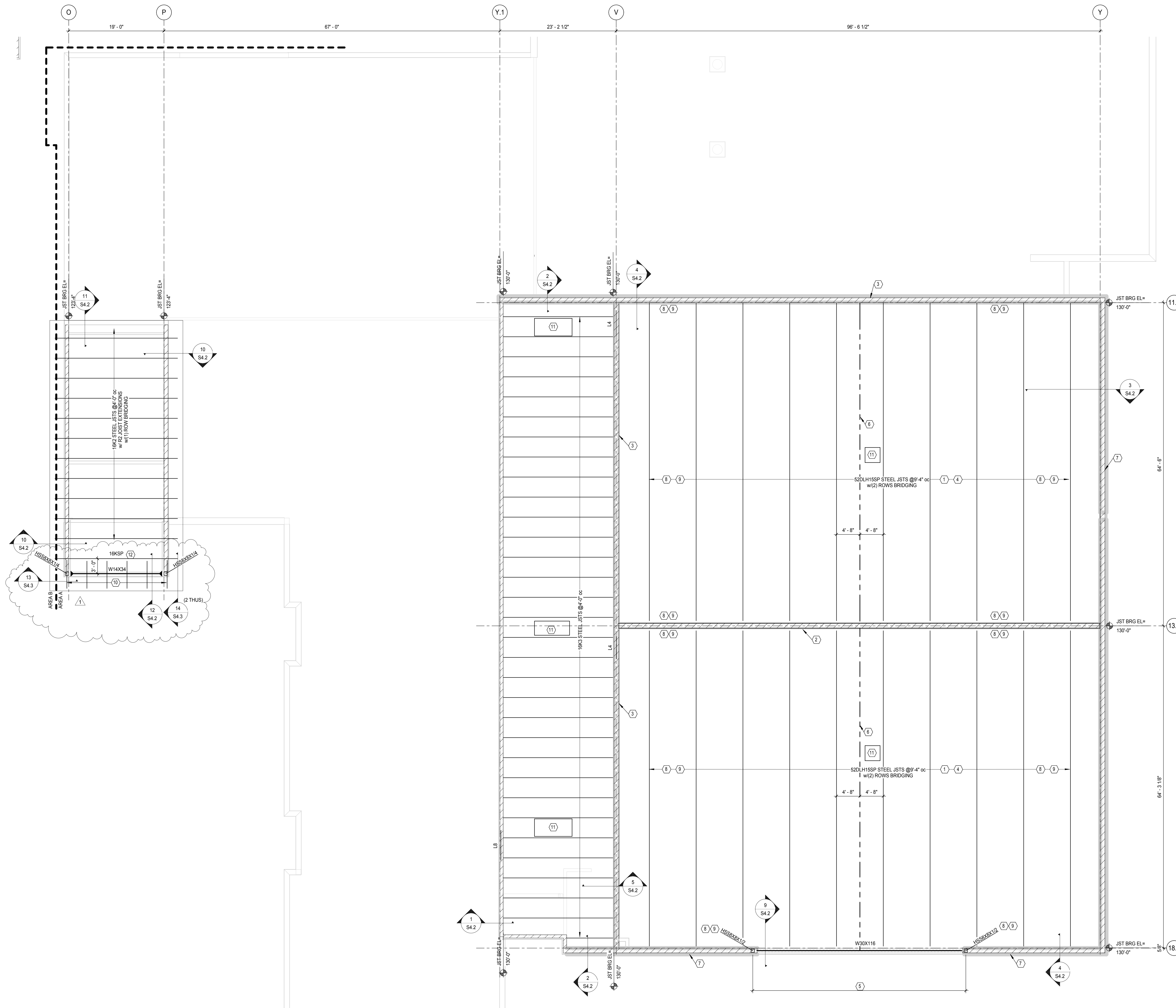
LOW ROOF FRAMING PLAN - AREA D
1/8" = 1'-0"

JST BG EL = 114'-0" (UON)

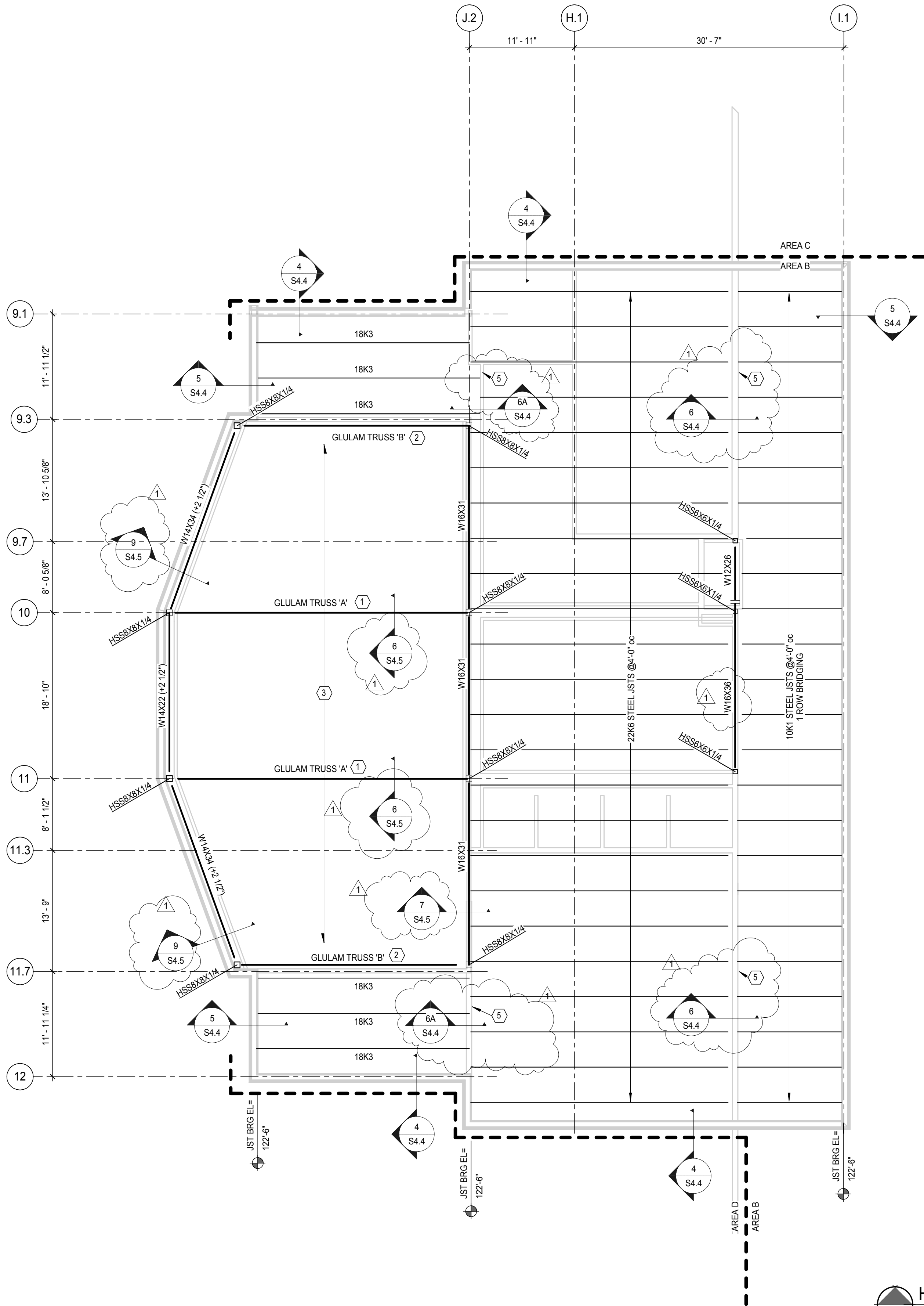
KEYNOTES

- ① DESIGN LOADS: DL=25 PSF (INCLUDES JOIST SELF WEIGHT
SL=42 PSF
LL=2000 LB POINT LOAD AT MIDSPAN OF EA TRUSS
SECTION FOR 12" SPACING NET (UPLIFT) (ASD)
- ② REINFE 12" CML WALL W/2 #5 @2'-0" o.c. S.D. 1454 I.1 PLACE
BARS 3/4" FROM EA FACE SHEL @ SOUND BLOCK. REINFE
W/2 #5 @1'-4" o.c. DOWN TO FND.
- ③ REINFE 12" CML WALL W/2 #5 @2'-0" o.c. S.D. 1454 I.1 PLACE
BARS 3/4" FROM EA FACE SHEL @ SOUND BLOCK. REINFE
W/2 #5 @2'-0" o.c. DOWN TO FND.
- ④ AT EACH ROOF TRUSS RIG BLOCK PROVIDE 3" CORES W/2 #5
DOWN TO FOUNDATION. DO NOT USE SOUND BLOCK AT
JOIST BARGE LOCATIONS.
- ⑤ 1000520-68 METAL STUDS 14"x4"x1" @4'-0" o.c.
- ⑥ DIVIDER CARRIER, PROVIDE 14x4x38 SUPPORT @4'-0" o.c. S.D.
6542. DESIGN LOAD TO ROOF JOIST=300 LB/FT. VERIFY
REQUIRED SPACING AND HEIGHT W/DIVIDER CARRIER
SUPPL.
- ⑦ REINFE 12" CML WALL W/2 #5 @2'-0" o.c. S.D. 1454 I.1 PLACE
BARS 3/4" FROM EA FACE SHEL @ SOUND BLOCK.
REINFE W/2 #5@8'-0"
- ⑧ SUPPLY SUPPLIER TO PROVIDE 1500 LB POINT REACTION AT EACH
GOAL SUPPORT LOCATION. VERIFY GOAL WEIGHT, WGT GOAL
SUPPLIER.
- ⑨ 3 1/2" DIAMETER DOW. PER STANDARD BY GOAL SUPPLIER.
CONTRACTOR TO COORDINATE A VERIFY SUPPORT
STRUCTURE ATTACHMENT TO ROOF JOISTS.
- ⑩ HSS2 12x12x1/4 OUTRIGGER @4'-0" o.c.
- ⑪ MECHANICAL OPENING, COORDINATE SIZE & LOCATION
W/MECHANICAL CONTRACTOR. S.D. 854 I.1 & 854 I.1.
- ⑫ SUPPLY SUPPLIER TO DESIGN JOIST FOR THE FOLLOWING MAX
RECTIONS:
DL=70PF MAX
0 PLF MIN
SL=147 PLF MAX
-83 PLF MIN (UPLIFT)
LL=1500 LB POINT (UPLIFT)
+86 PLF MIN (UPLIFT)

LINTEL SCHEDULE		
MARK	LINTEL	DETAILS
L1	W8x10 wL6x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/S4.1
L2	W8x18 wL6x4x1/6 LOOSE BRICK ANGLE	15/S4.1
L3	W8x24 wL6x4x1/6 LOOSE BRICK ANGLE	15/S4.1
L4	W12x26	15/S4.1
L5	W16x31 wL6x4x3/8 LOOSE BRICK ANGLE	15/S4.1, 17/S4.1, 22/S4.1
L6	W16x31	15/S4.1, 17/S4.1
L7	W8x21	15/S4.1
L8	W8x10	15/S4.1
L9	W8x21 wL6x3/8 LOOSE BRICK ANGLE	15/S4.1



 HIGH ROOF FRAMING PLAN - AREA A
1/8" = 1'-0" 1ST BRG FL = VARIES, SEE PLAN

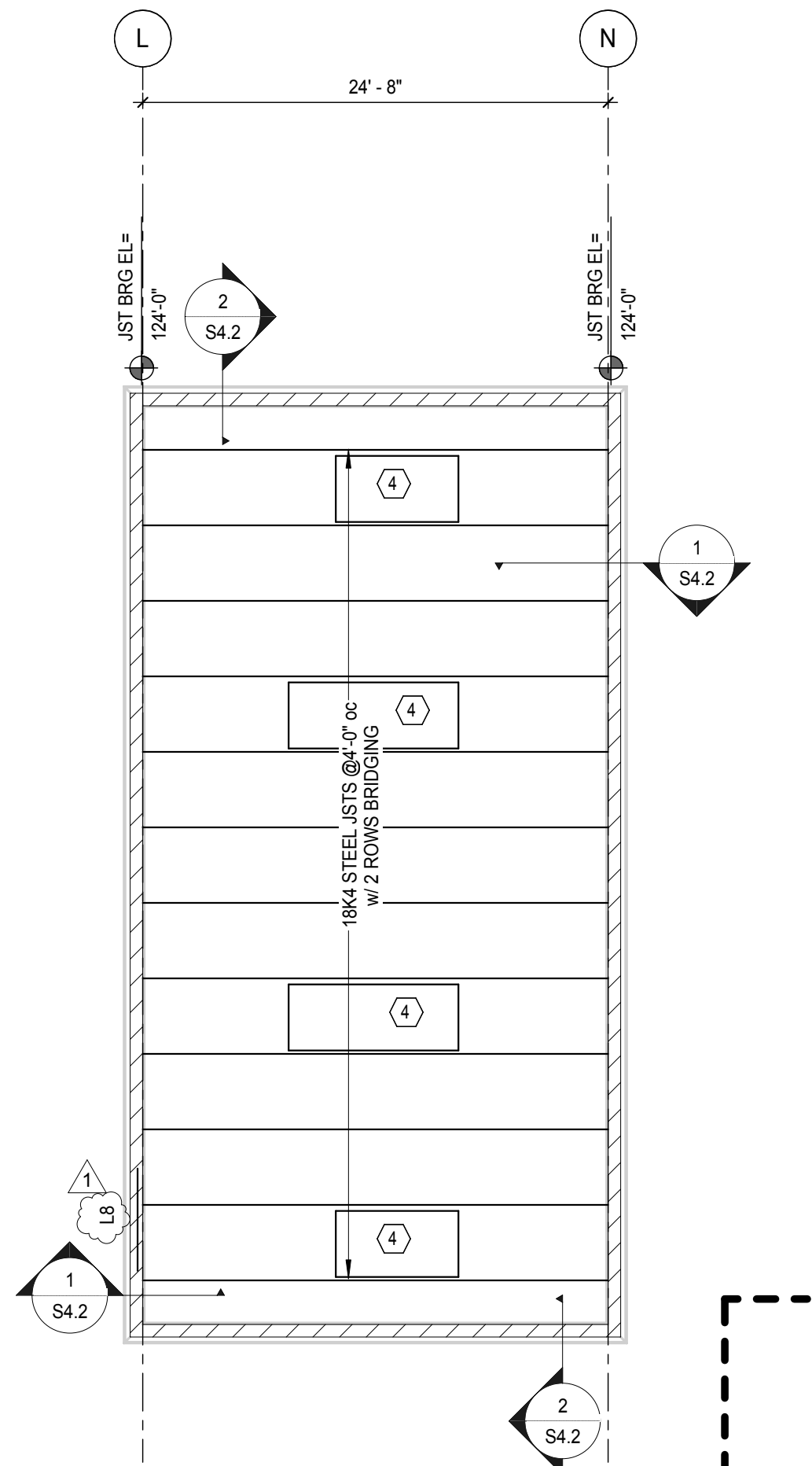


HIGH ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"
T O STL EL=122'-6" (UON)

- GLULAM TRUSS 'A' S.D. 1/84.5.
- GLULAM TRUSS 'B' S.D. 2/84.5.
- ROOF DECK SHALL BE ER6 S4, 18 GA METAL DECK BY EPIC OR EQUAL FASTEN DECK USING 246 PATTERN w/12 TEK SCREWS SIDELAP FASTENERS @2'-0" oc.
- MECHANICAL OPENING COORDINATE SIZE & LOCATION w/MECHANICAL CONTRACTOR S.D. 8/84.1 & 9/84.1.
- INTERIOR BRG WALL STUDS SHALL BE 800S200-54 STEEL STUD JOIST @1'-4" oc w/BRIDGING @4'-0" oc MAX.

HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/S4.4
H2	(2) 1000S200-88 w/6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/S4.3
H4	(2) 1000S200-88	1	2	1/S4.4
H5	(2) 1000S200-88	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS8x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4

LINTEL SCHEDULE		
MARK	LINTEL	DETAILS
L1	W8x10 w/14x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/S4.1
L2	W8x18 w/6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L3	W8x24 w/6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L4	W12x26	15/S4.1
L5	W16x31 w/6x4x3/8 LOOSE BRICK ANGLE	15/S4.1, 17/S4.1, 22/S4.1
L6	W16x31	15/S4.1, 17/S4.1
L7	W8x21	15/S4.1, 22/S4.1
L8	W8x10	15/S4.1
L9	W8x21 w/7x4x3/8 LOOSE BRICK ANGLE	15/S4.1



ZERR BERG
ARCHITECTS

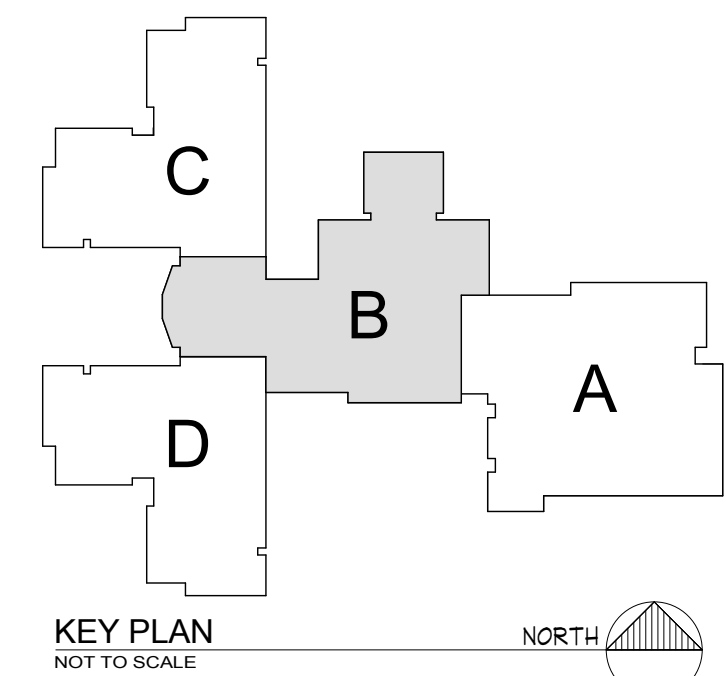
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gehrtz
CONSTRUCTION SERVICES

HEYER ENGINEERING
Structural Consultant
1020 36th Street SW Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

- SHEETS NOTES:**
- VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
 - ALL ROOF DECK (UON) SHALL BE 1 1/2" TYPE 'B', 22 GA METAL DECK BY YULCRAFT OR EQUAL. FASTEN DECK USING 3815 PATTERN w/12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 - SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 - REINFORCED CMU WALLS w/1" #5 @4'-0" oc (UON) (CENTER IN CELL).
 - MASON TO COORDINATE LOCATION OF ACCOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM. SEE ARCH.
 - VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. 6 & 8/84.1 FOR FRAMING.
 - SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REINFORCEMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 - CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
 - ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
 - S.D. 18/84.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.

04/14/2016 ADDENDUM #1



BID GROUP 1

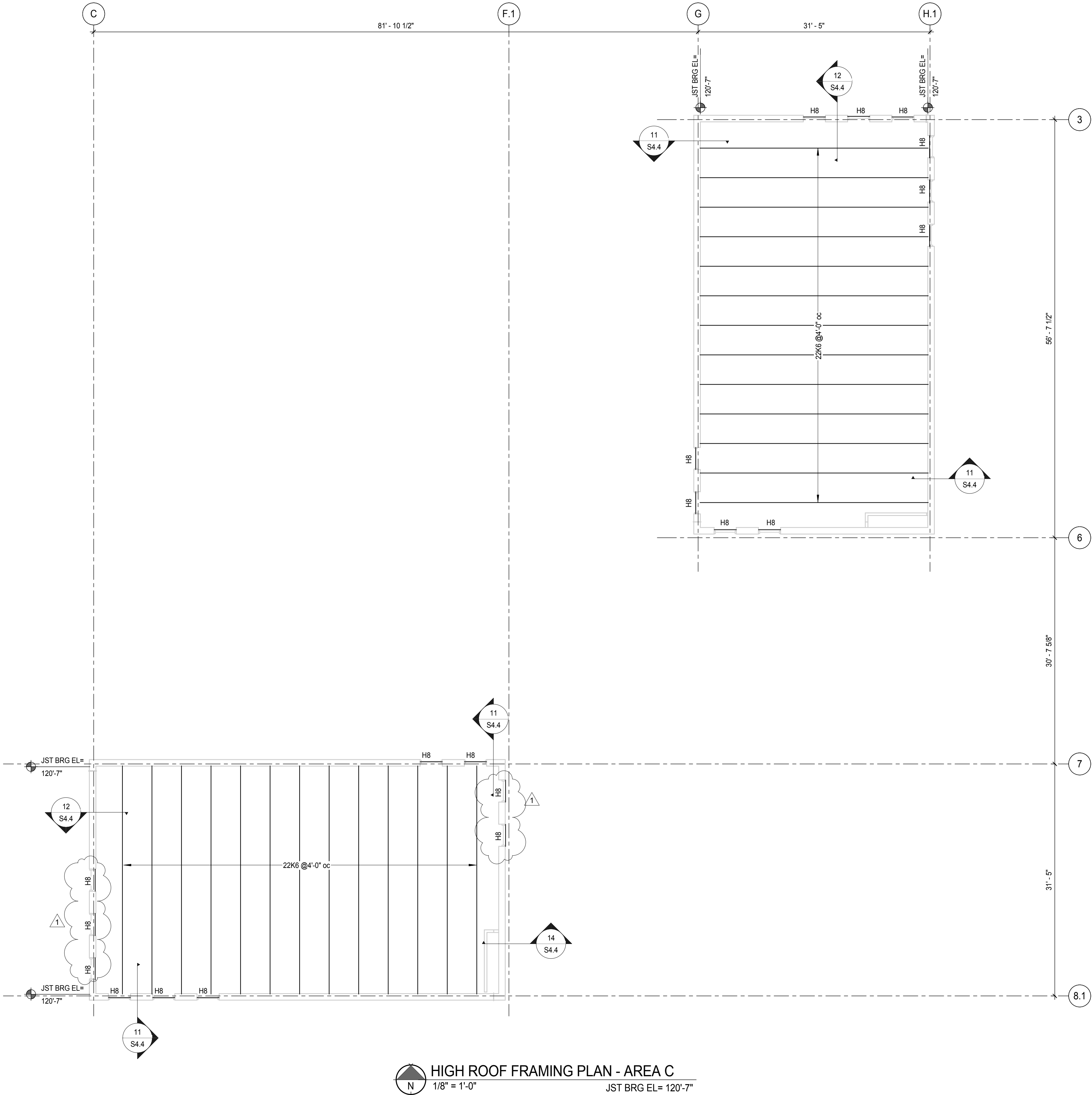
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: [Signature]
Date: 04/14/2016 Registration No. 41855

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Moorhead, MN 56500

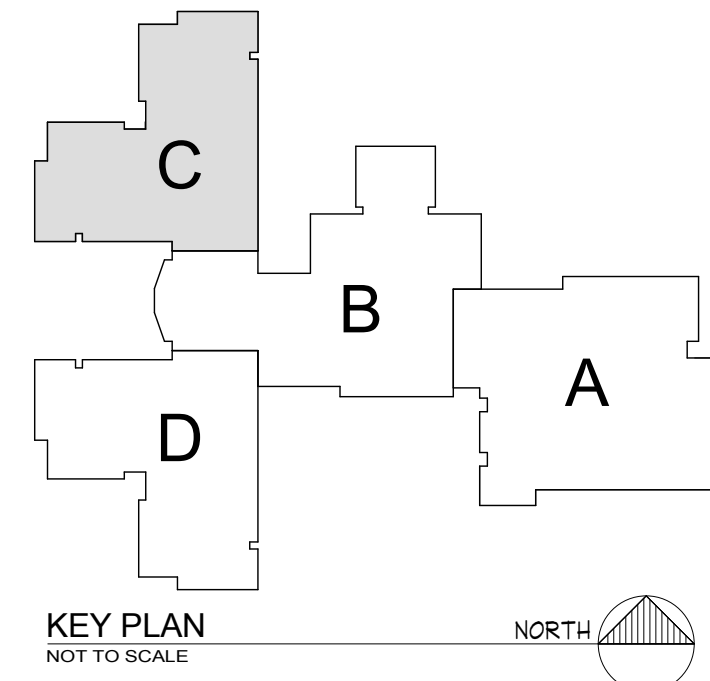
HIGH ROOF FRAMING PLAN - AREA B

HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-87	2	2	1/S4.4
H2	(2) 1000S200-68 w/6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/S4.3
H4	(2) 1000S200-68	1	2	1/S4.4
H5	(2) 1000S200-68	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS8x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4



- SHEETS NOTES:**
1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
 2. ALL ROOF DECK (UON) SHALL BE 1 1/2", TYPE B", 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING SPS PATTERN w/12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 4. REINF ALL CMU WALLS w/(1) #5 @4'-0" oc (UON) (CENTER IN CELL).
 5. MASON TO COORDINATE LOCATION OF ACCOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN CVM. SEE ARCH.
 6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. 8 & 9/S4.1 FOR FRAMING.
 7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REINF REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
 9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
 10. S.D. 18/S4.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.

04/14/2016 ADDENDUM #1



BID GROUP 1

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 Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature:
Date: 04/14/2016 Registration No. 41855



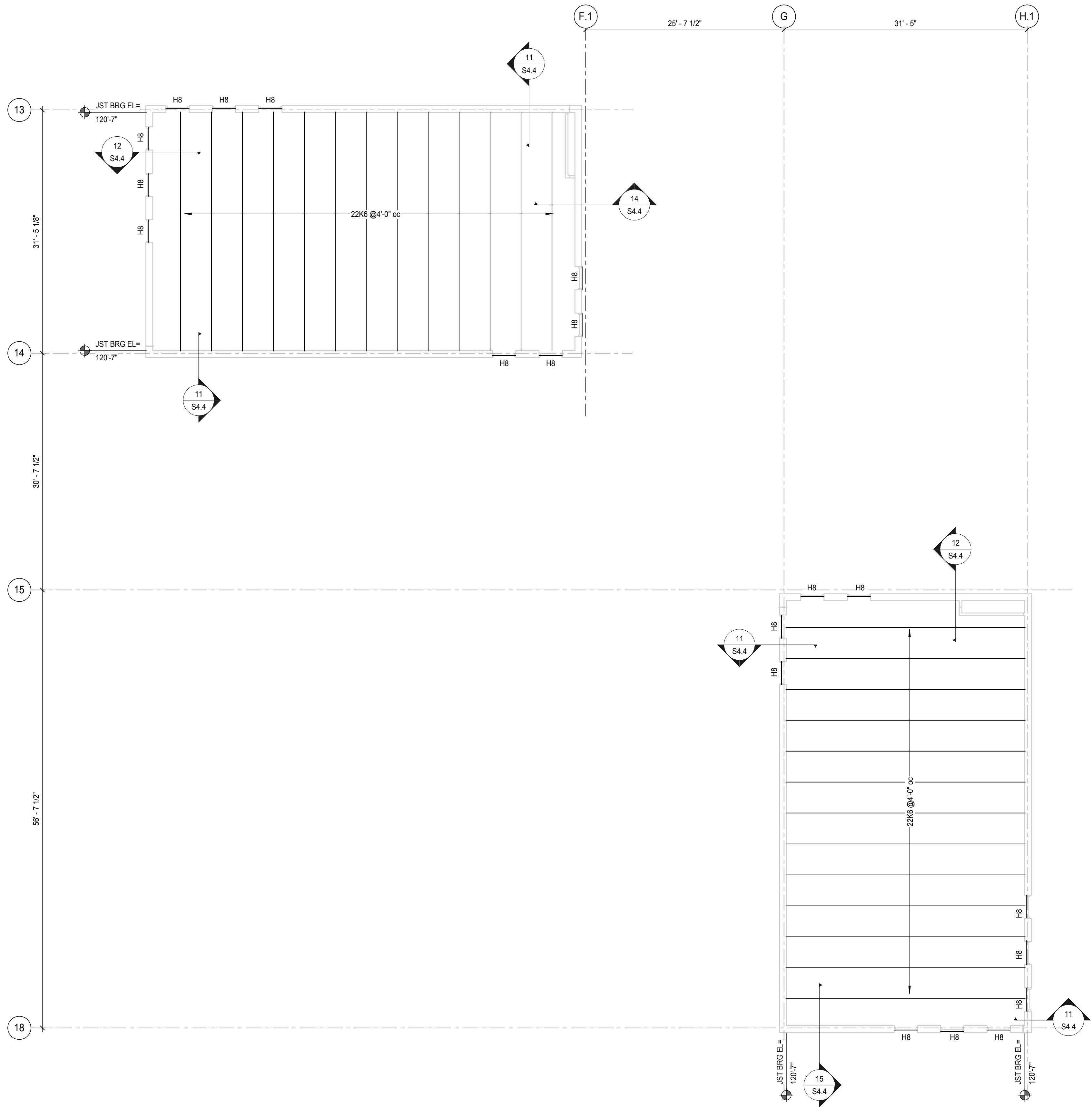
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Moorhead, MN 56500

HIGH ROOF FRAMING PLAN - AREA C

Project No.: 15-032
Date: 04/14/2016

S2.32

HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/S4.4
H2	(2) 1000S200-68 w/1.6w x 3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/S4.3
H4	(2) 1000S200-68	1	2	1/S4.4
H5	(2) 1000S200-68	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS8x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4



HIGH ROOF FRAMING PLAN - AREA D
1/8" = 1'-0" JST BRG EL= 120'-7"

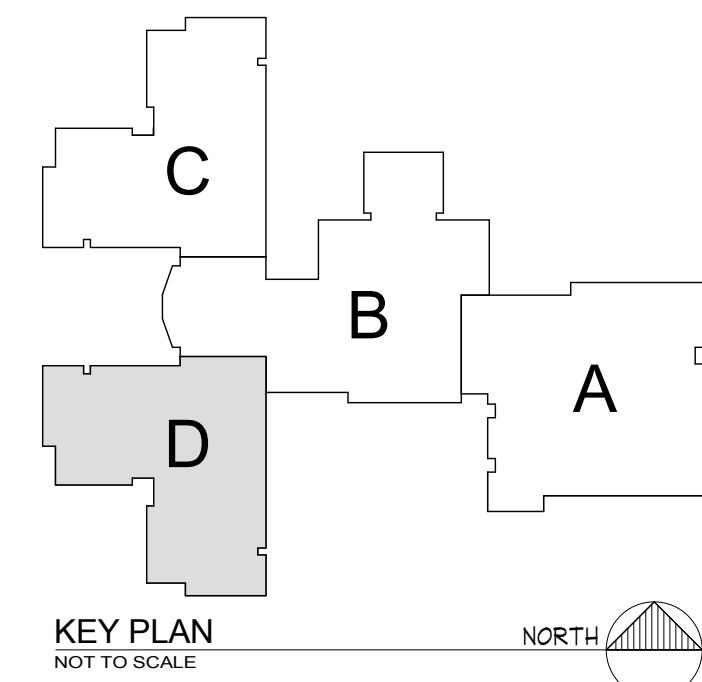


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701.280.0167 FAX 701.280.0021



- SHEETS NOTES:**
1. VERIFY ALL DIMENSIONS w/ARCH DWGS. WHICH SHALL BE GOVERNING.
 2. ALL ROOF DECK (UCON) SHALL BE 1 1/2", TYPE B', 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 305 PATTERN w/#12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 4. REINF ALL CMU WALLS w/(1) #5 @4'-0" oc (UCON) (CENTER IN CELL).
 5. MASON TO COORDINATE LOCATION OF ACOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM. SEE ARCH.
 6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTEHR ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. 8 & 9/S4.1 FOR FRAMING.
 7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REINF REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
 9. ALL BEARING & EXTERIOR STEEL STUD STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
 10. S.D. 18/S4.1 FOR ALL NON-STRUCTURAL NON-BRG LINTELS OR FOR INTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.

04/14/2016 ADDENDUM #1



BID GROUP 1

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 Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature:
Date: 04/14/2016 Registration No. 41855

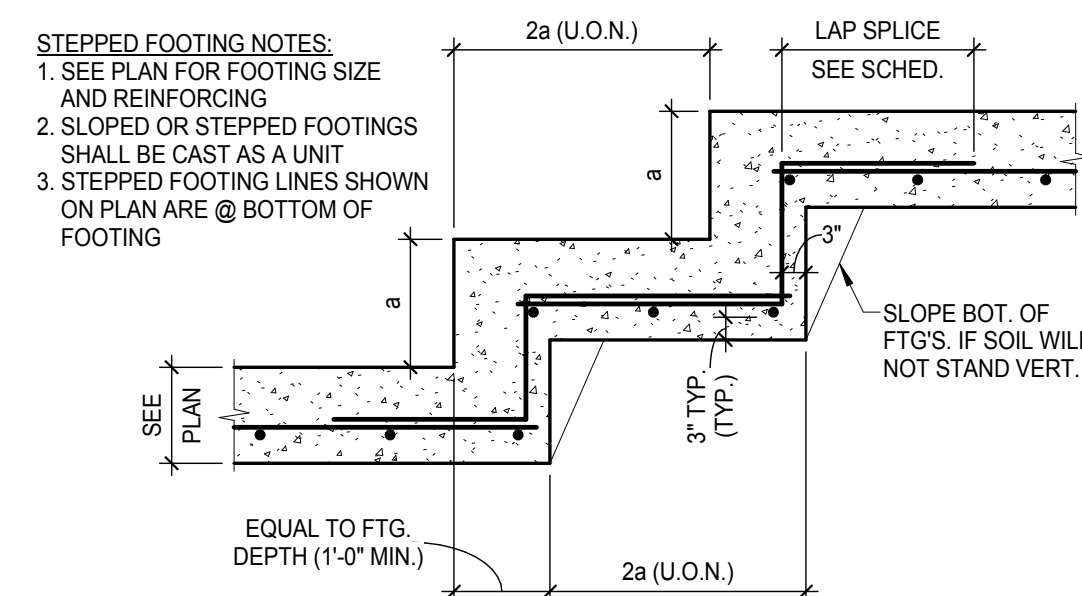


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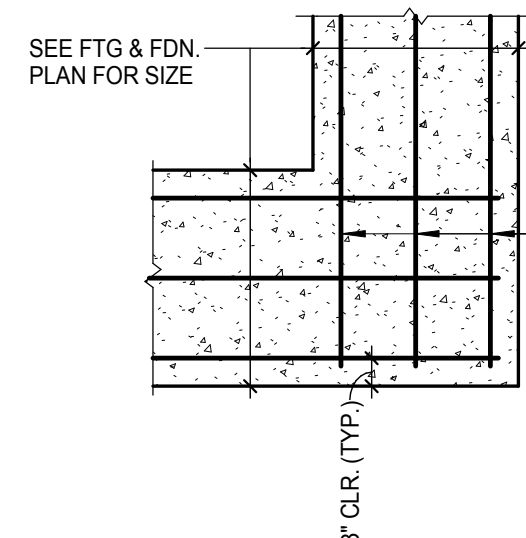
HIGH ROOF FRAMING PLAN - AREA D

Project No.: 15-032
Date: 04/14/2016

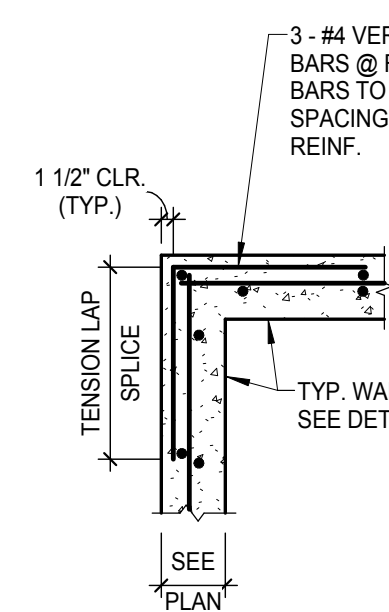
S2.33



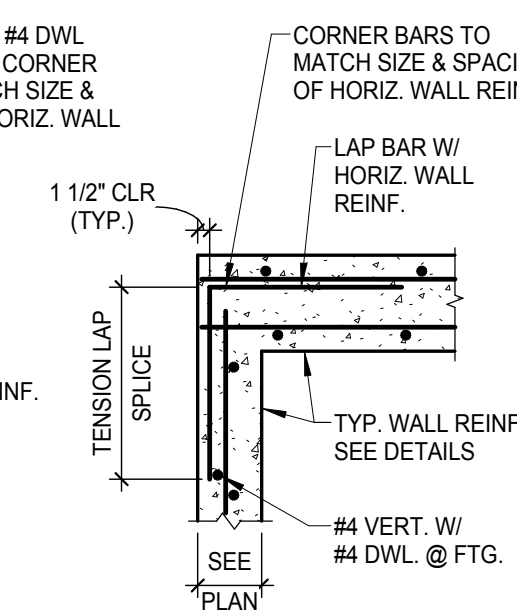
1 STEPPED FTG DETAIL
S3.1 1/2" = 1'-0"



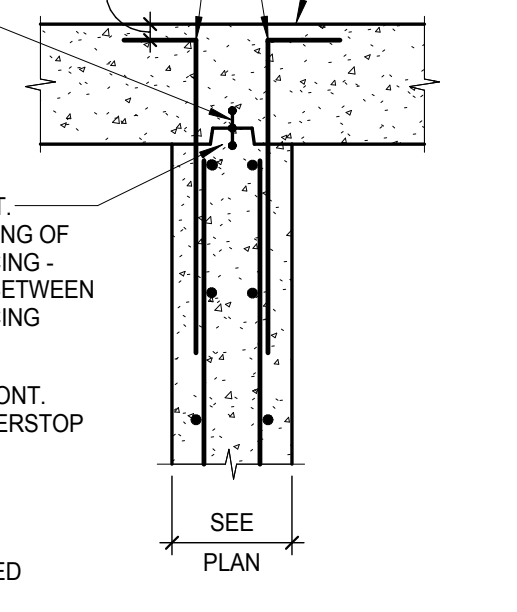
2 CORNER FTG REINF
S3.1 1/2" = 1'-0"



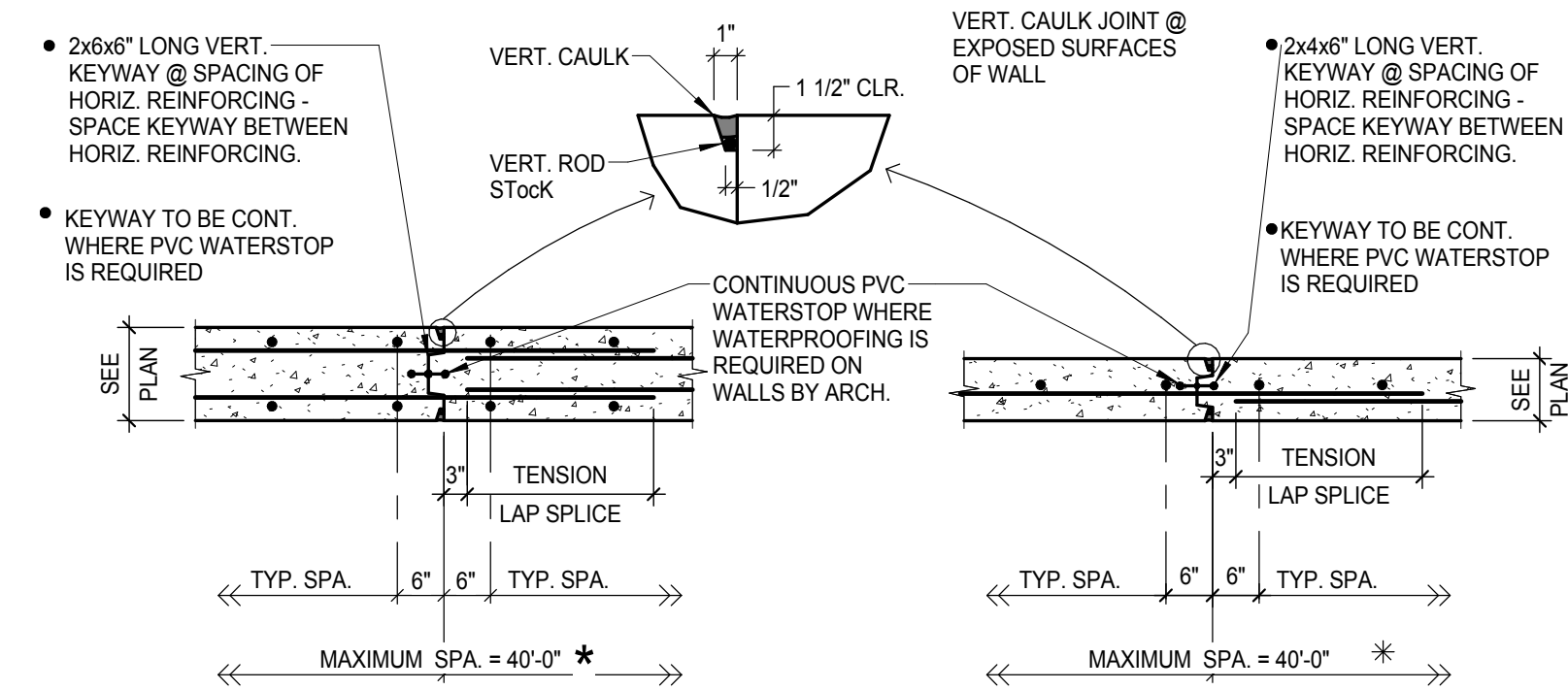
3 CORNER WALL REINF
S3.1 1/2" = 1'-0"



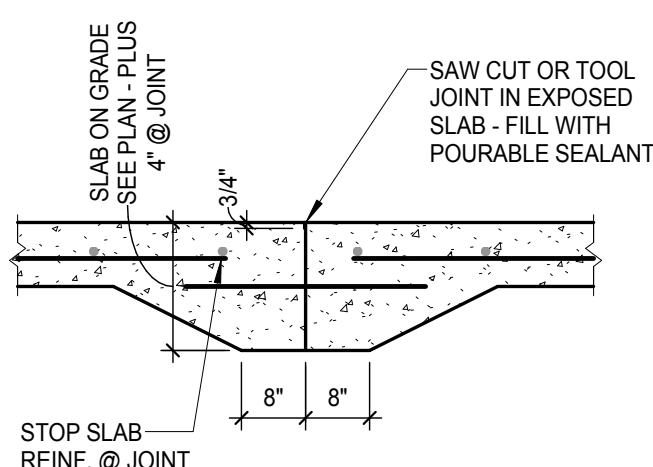
4 WALL CONST INTER INTERSECTION DETAIL
S3.1 1/2" = 1'-0"



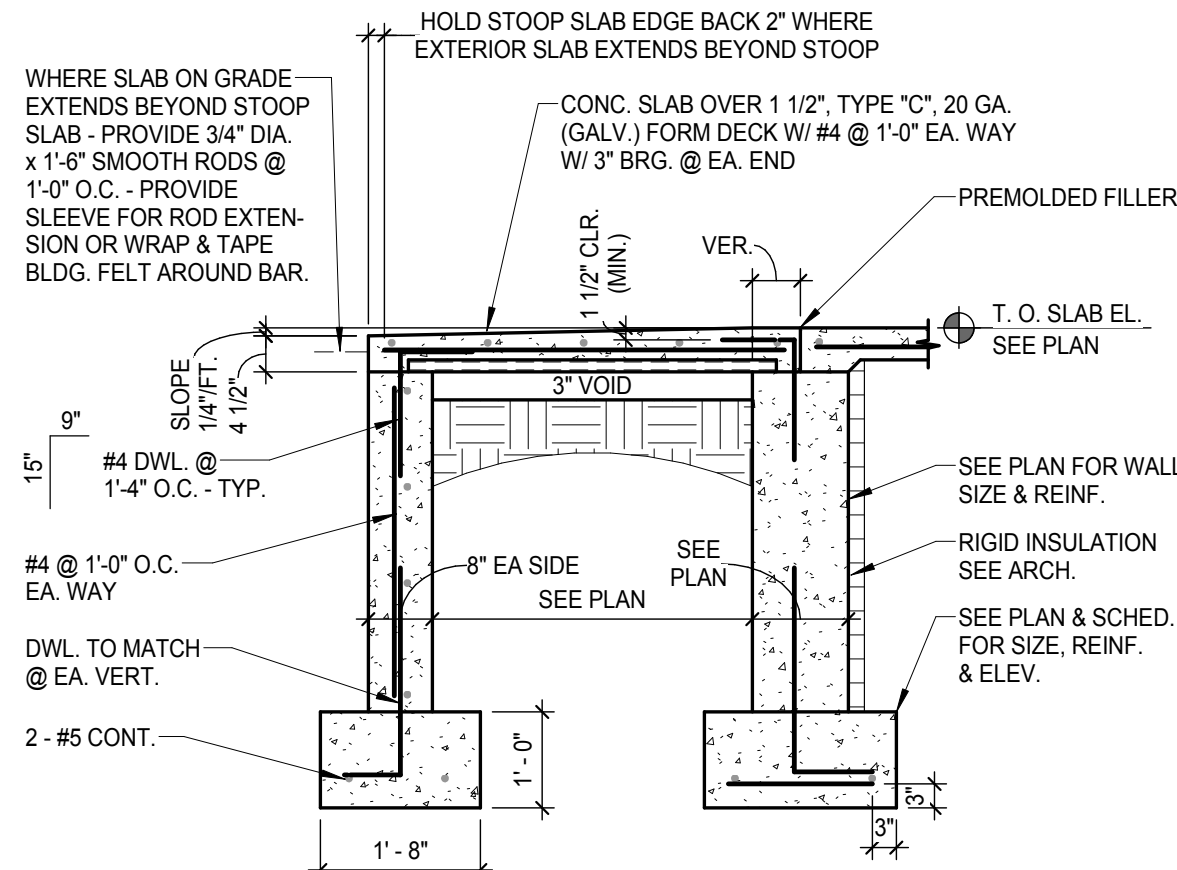
5 TYPICAL WALL CONST JOINT
S3.1 1/2" = 1'-0"



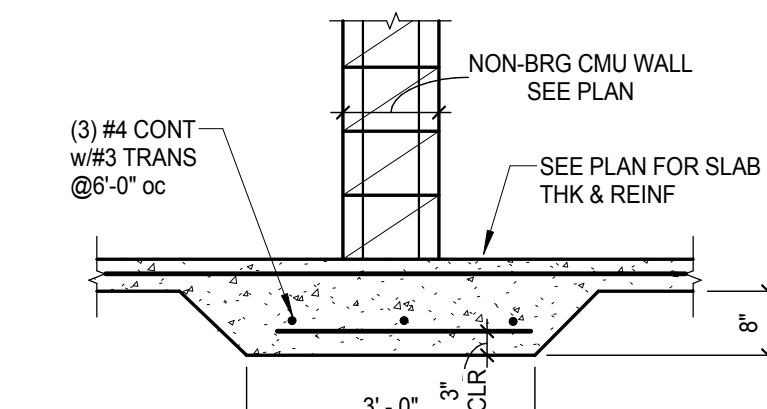
6 FLR CONTROL JOINT (CJ)
S3.1 1/2" = 1'-0"



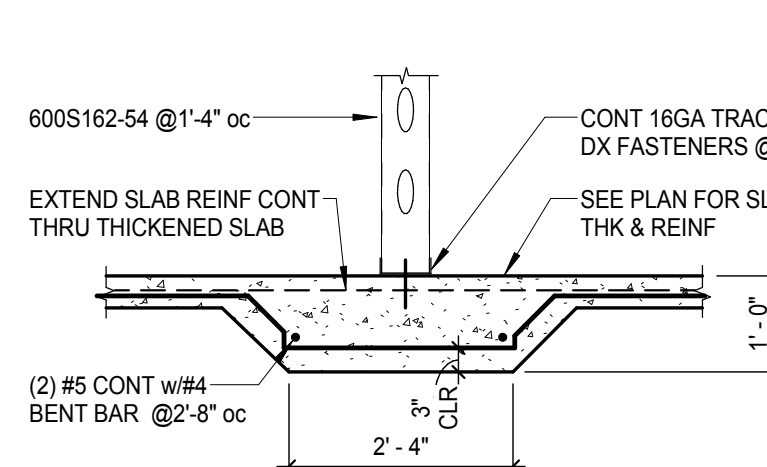
7 FLR CONSTRUCTION JOINT (CCJ)
S3.1 1/2" = 1'-0"



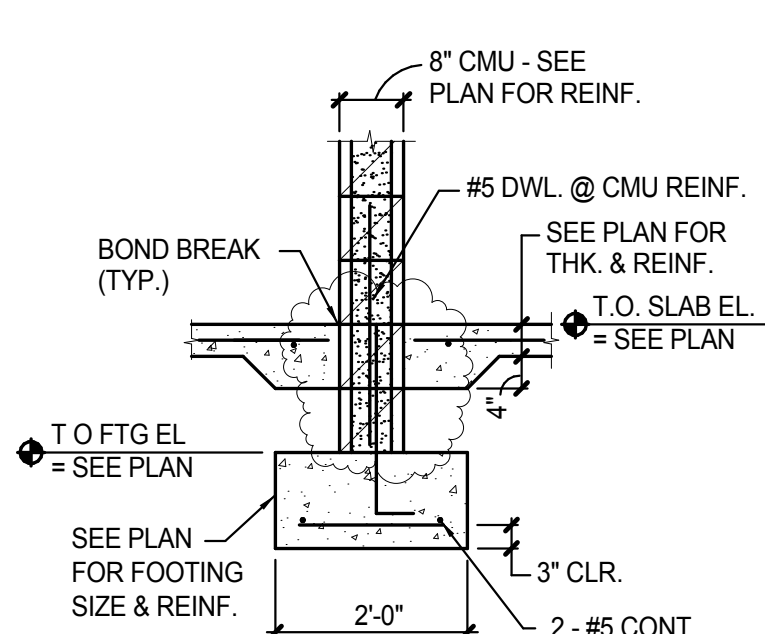
8 TYPICAL STOOP DETAIL
S3.1 1/2" = 1'-0"



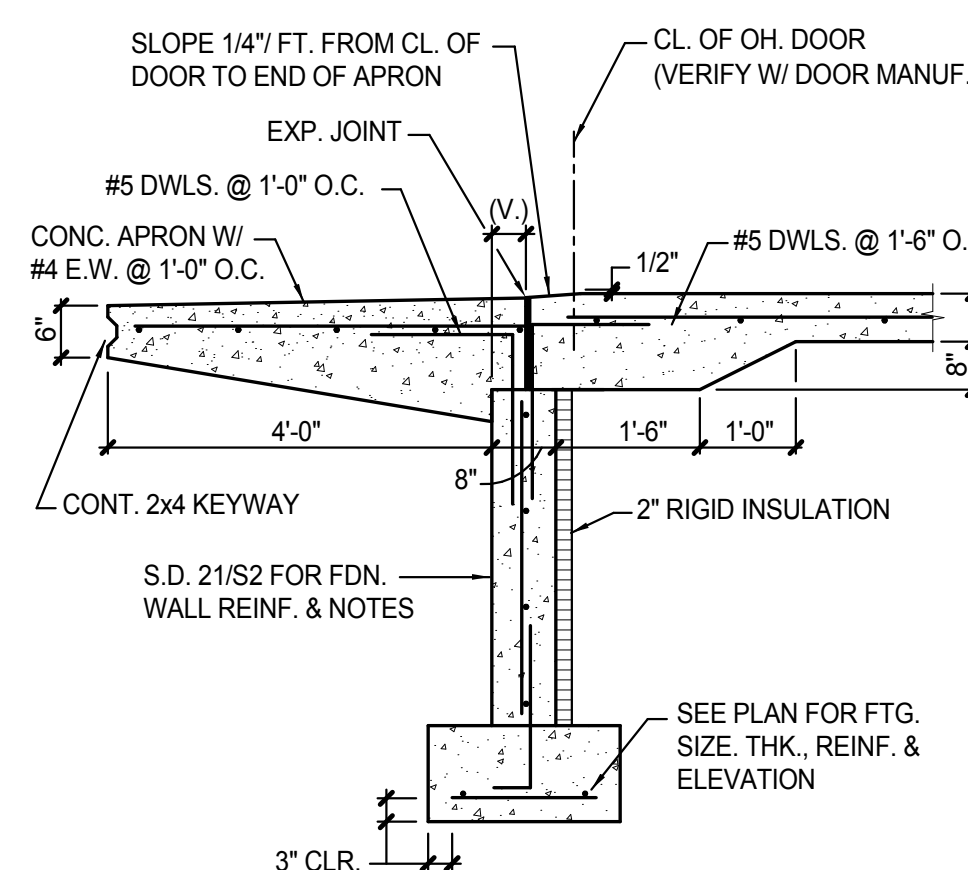
9 THK SLAB DETAIL
S3.1 1/2" = 1'-0"



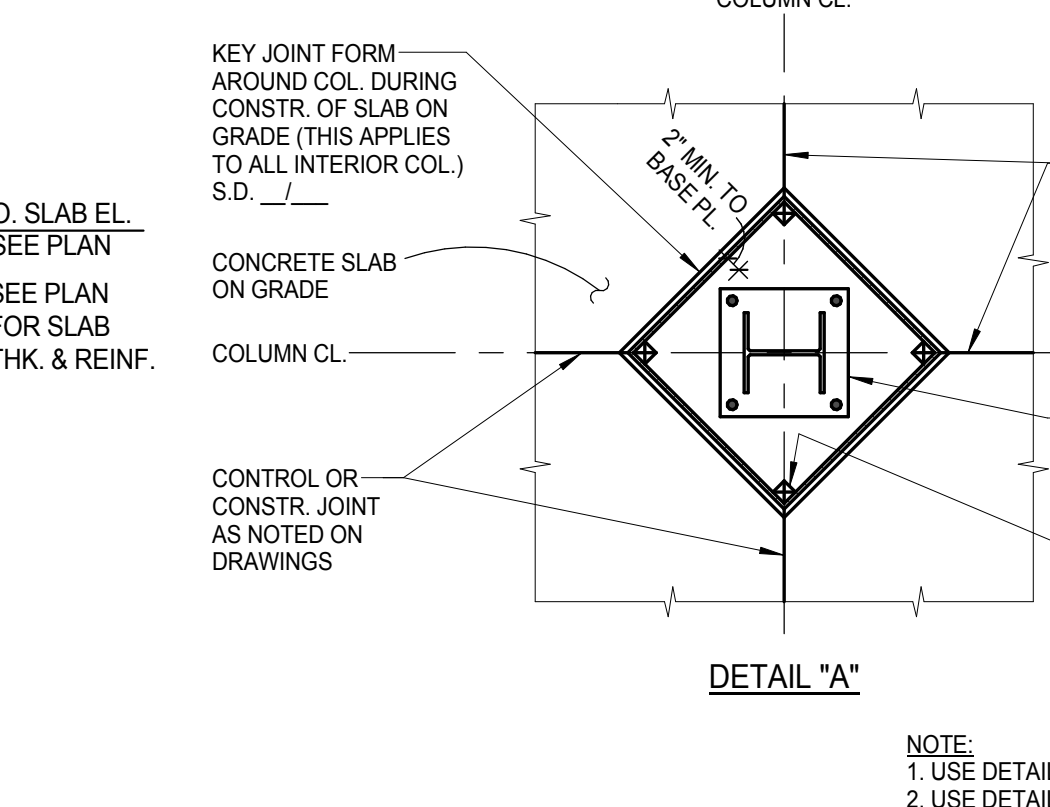
10 THK SLAB DETAIL
S3.1 1/2" = 1'-0"



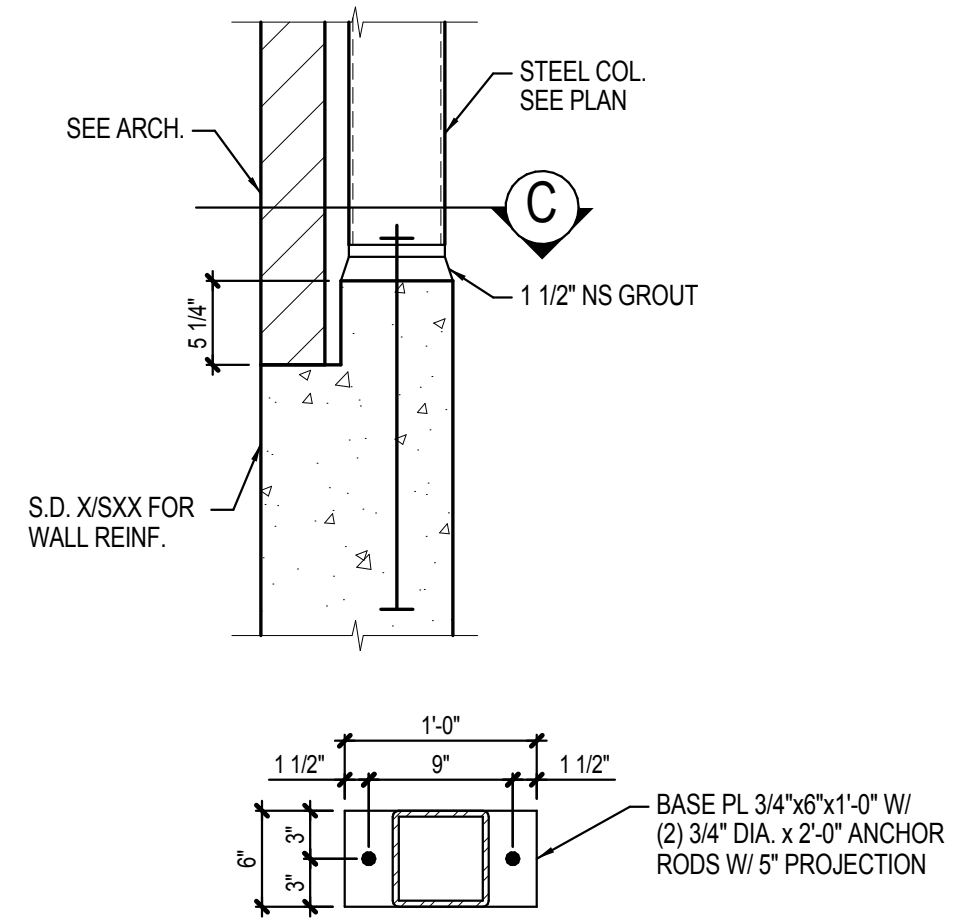
11 INTERIOR FOOTING DETAIL
S3.1 1/2" = 1'-0"



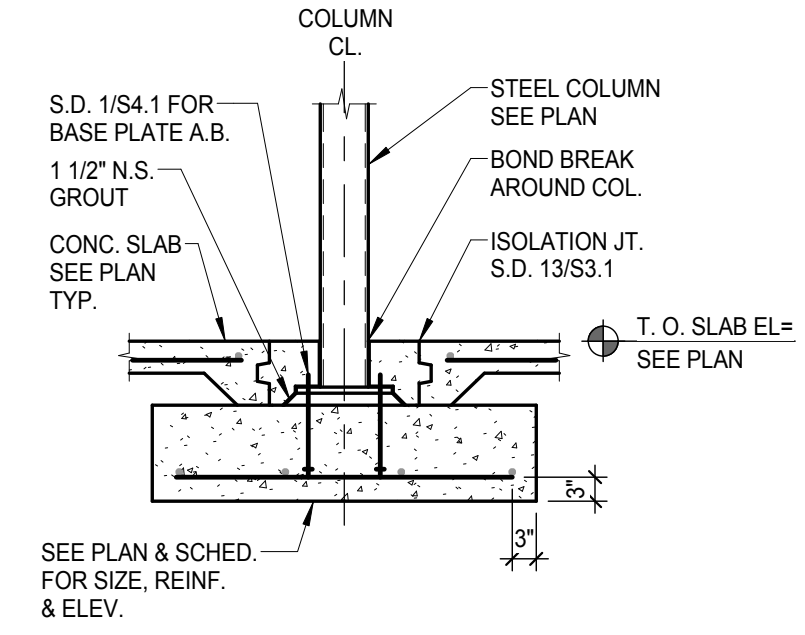
12 FND WALL @OVERHEAD DOOR
S3.1 1/2" = 1'-0"



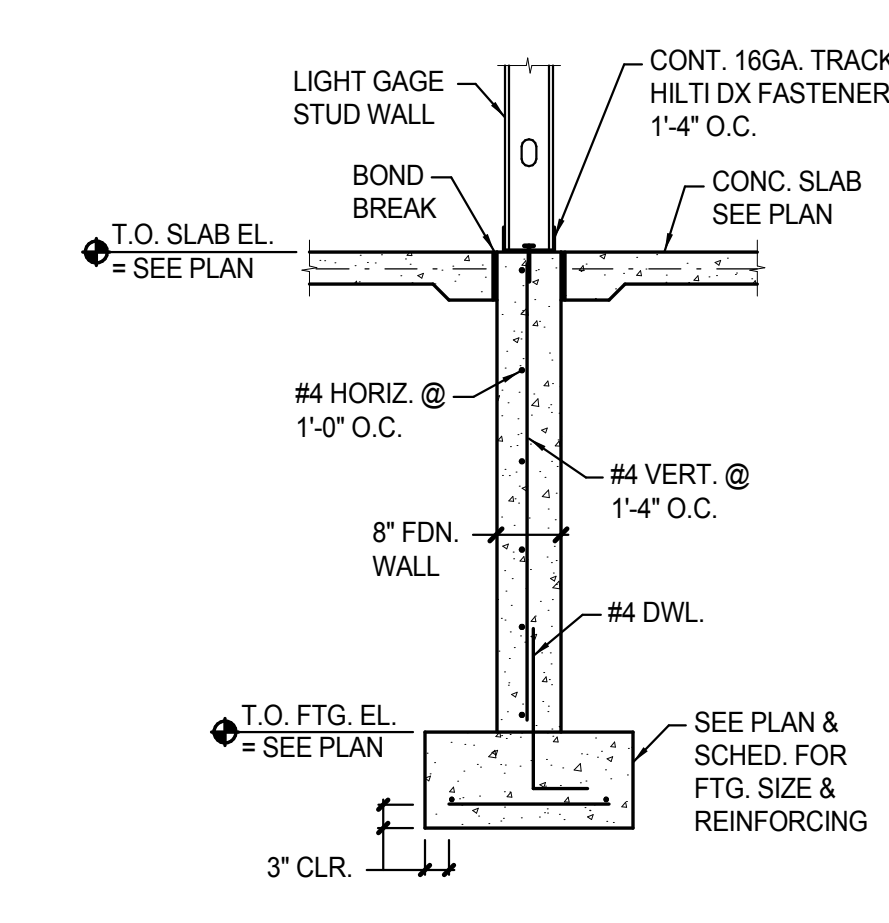
13 ISOLATION JOINT DET
S3.1 1/2" = 1'-0"



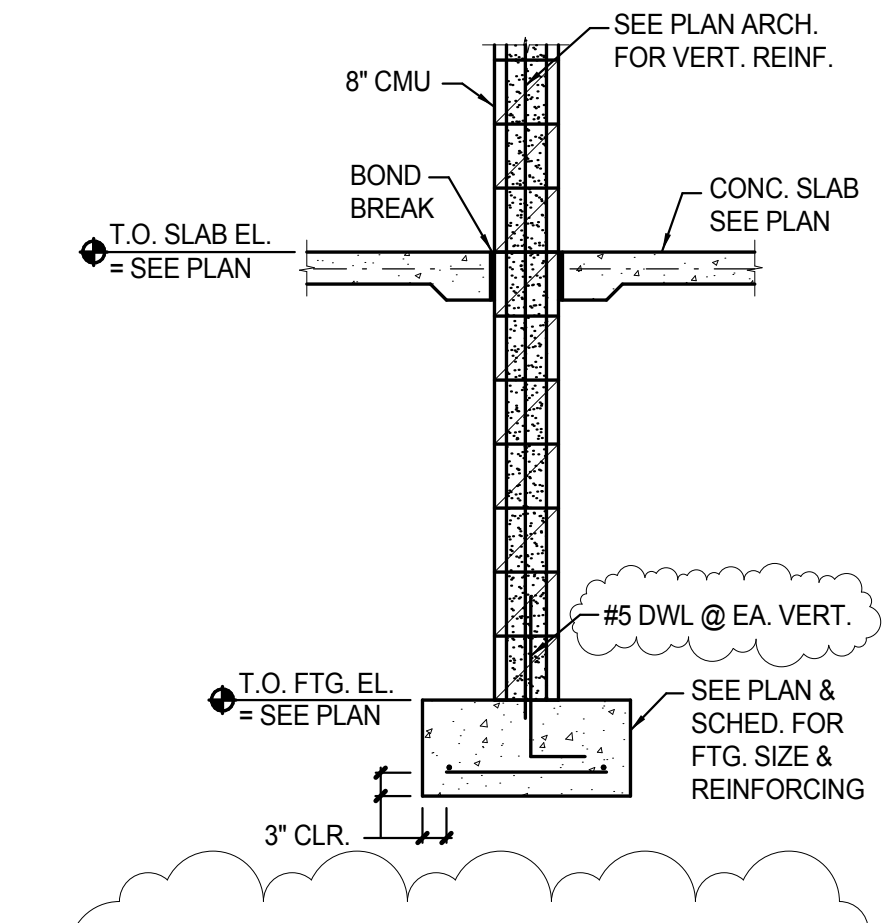
14 HEADER COLUMN BASE DETAIL
S3.1 1" = 1'-0"



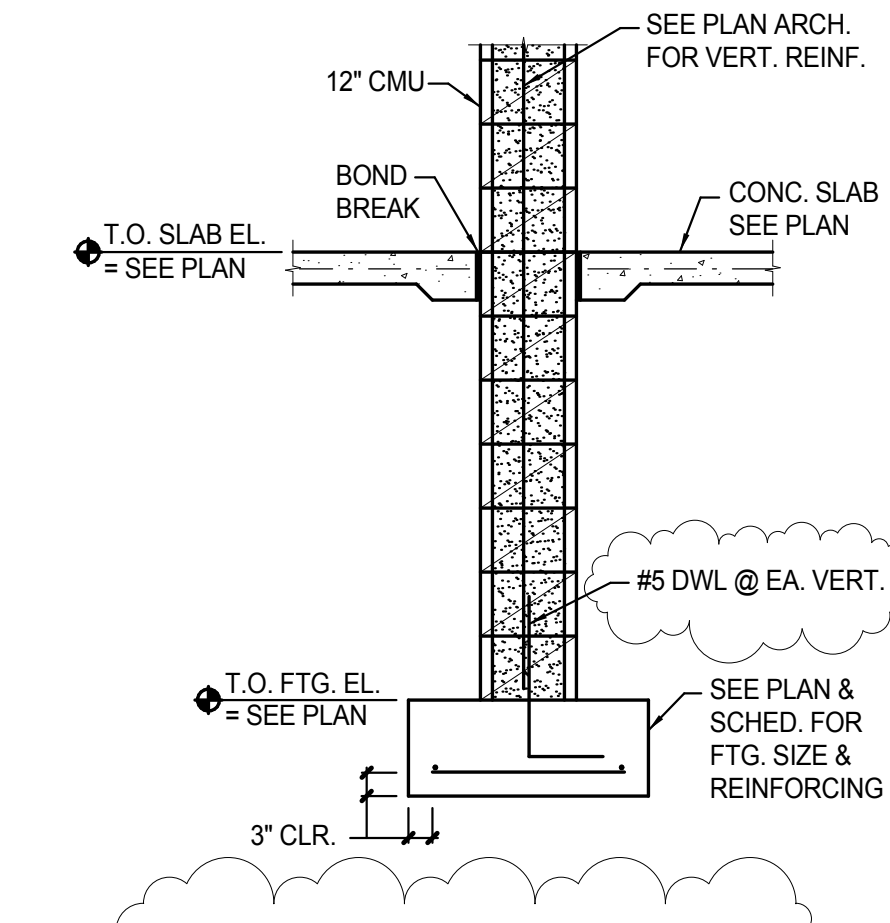
15 INTERIOR COLUMN DETAIL
S3.1 1/2" = 1'-0"



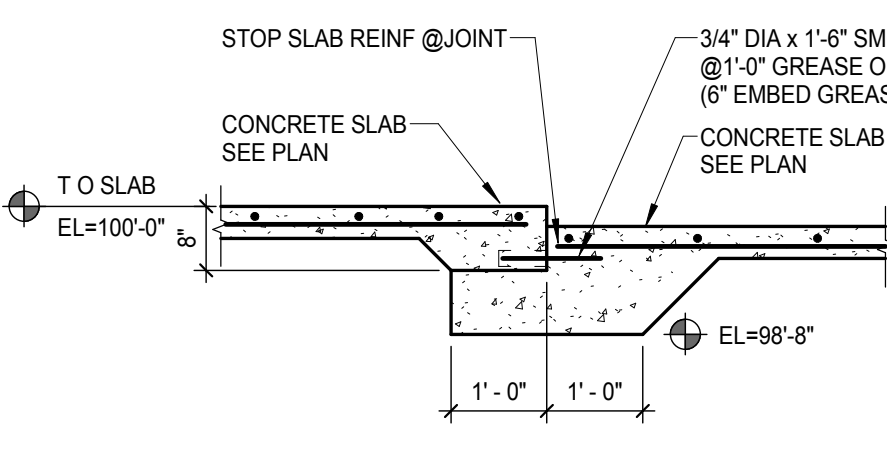
16 INT FND WALL DETAIL
S3.1 1/2" = 1'-0"



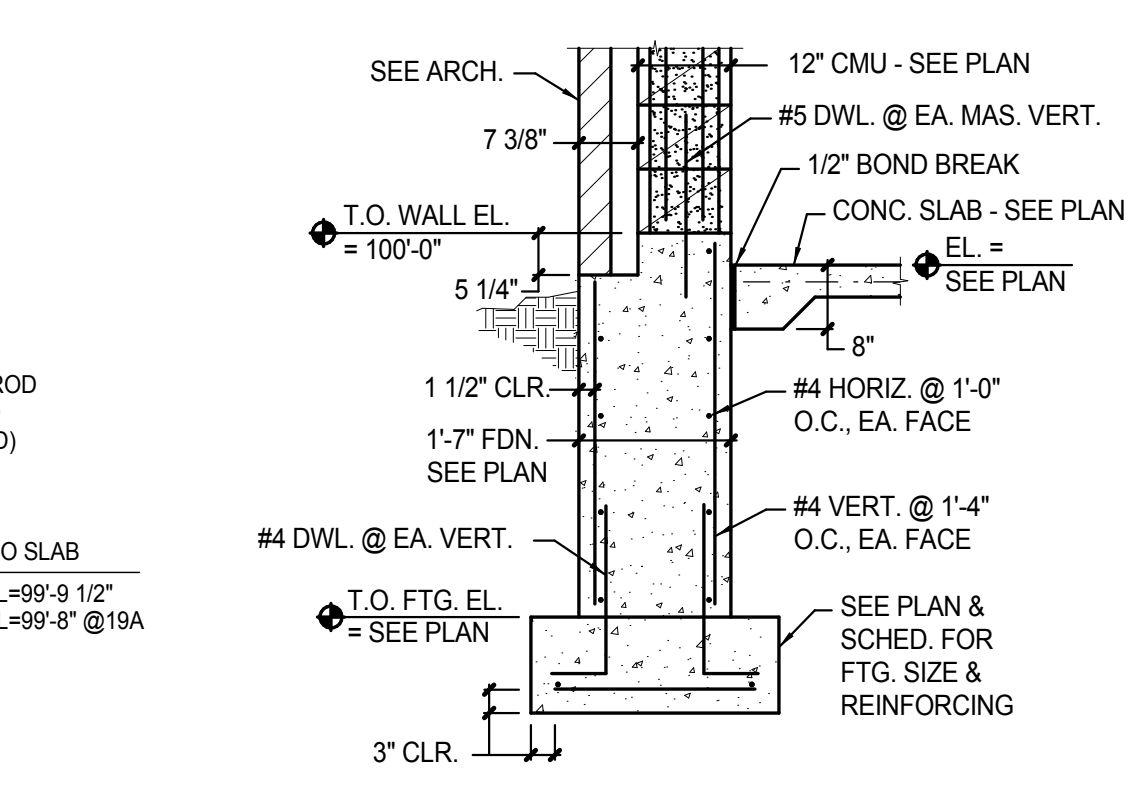
17 INT FND WALL DETAIL
S3.1 1/2" = 1'-0"



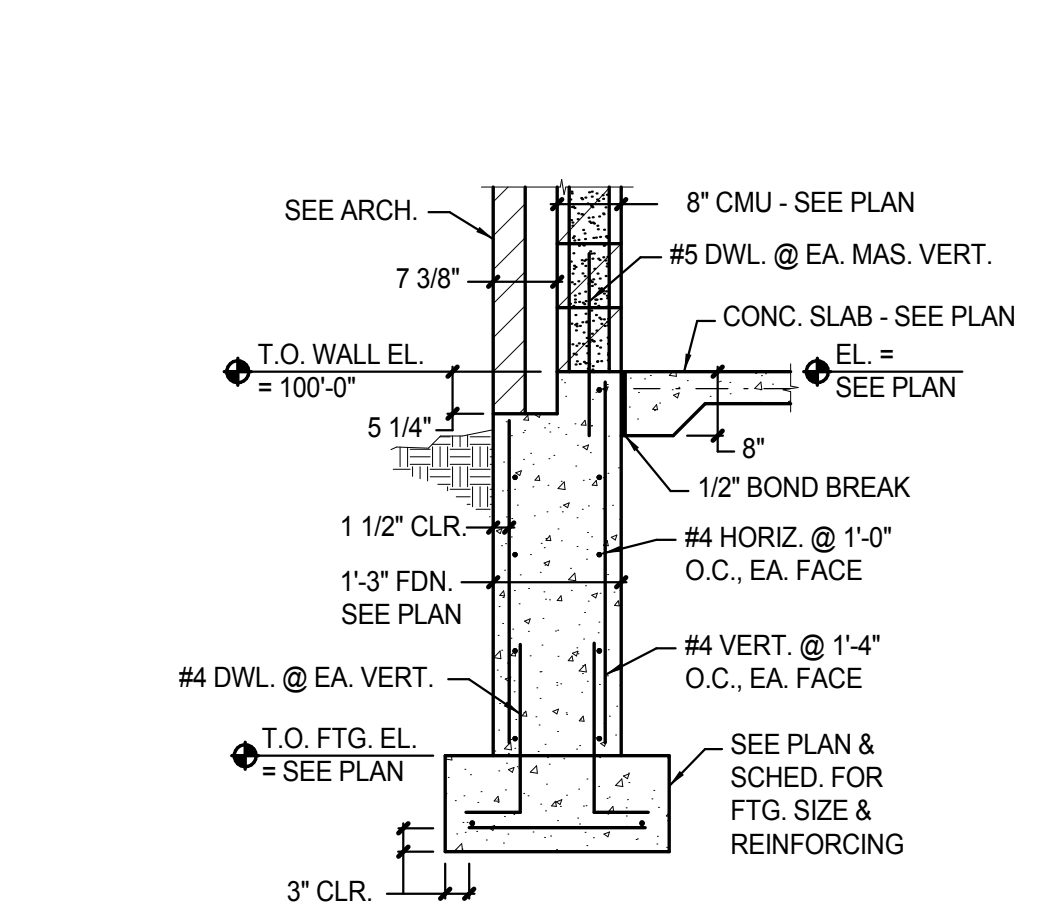
18 INT FND WALL DETAIL
S3.1 1/2" = 1'-0"



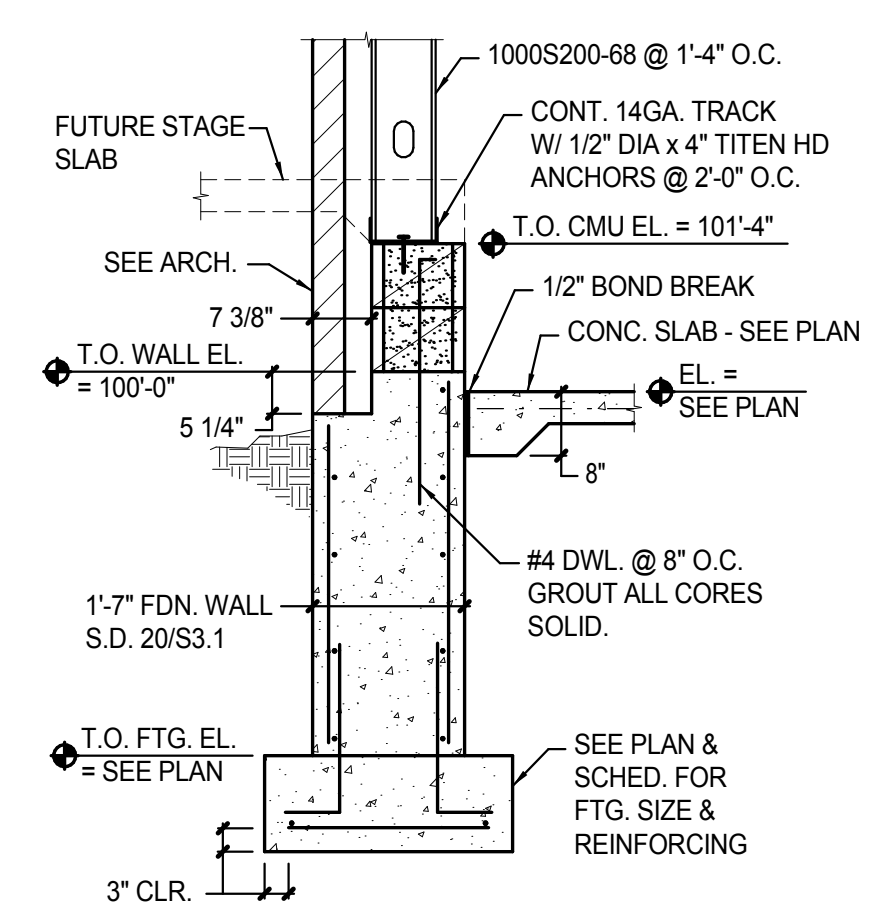
19A SLAB TRANSITION DETAIL
S3.1 1/2" = 1'-0"



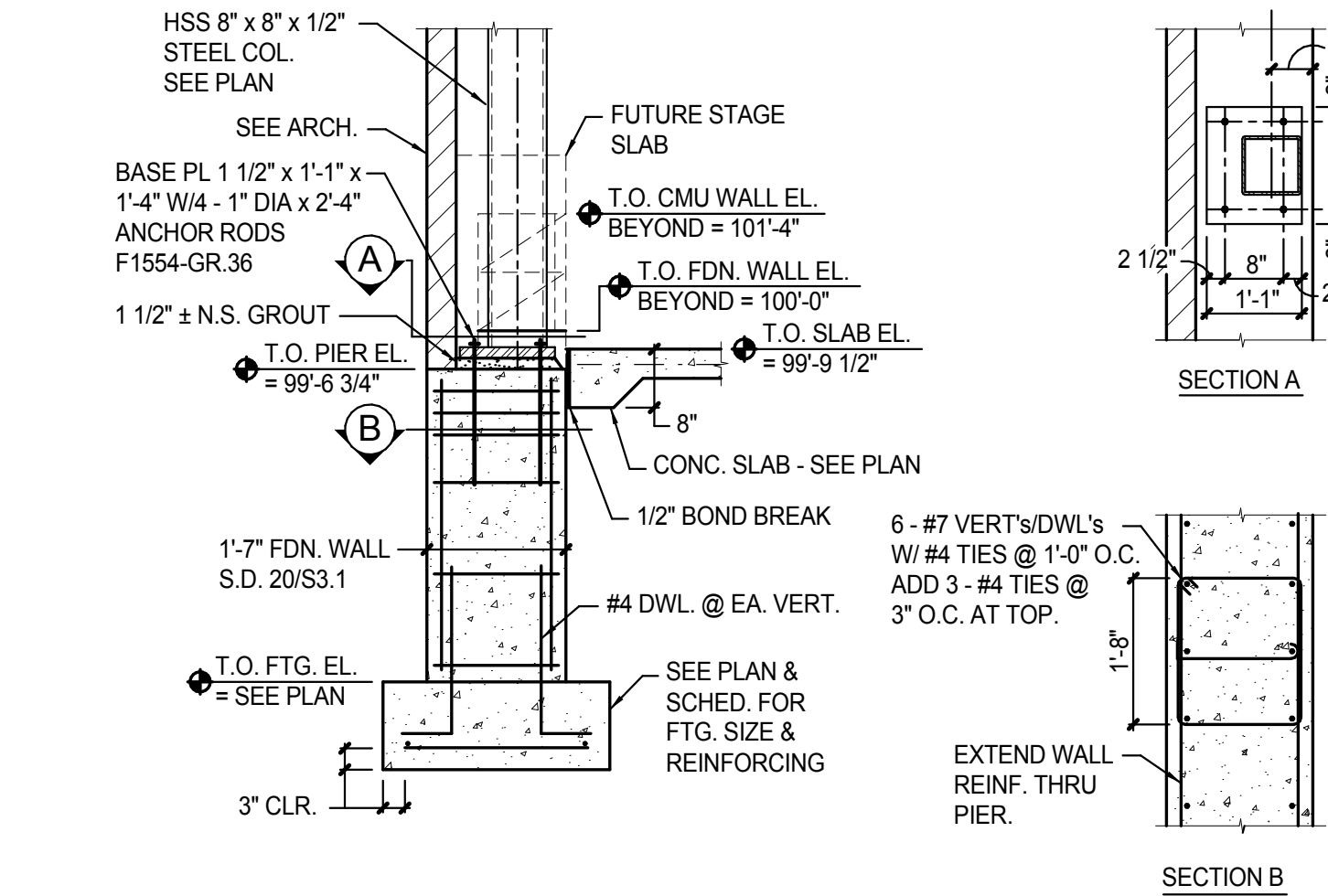
20 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



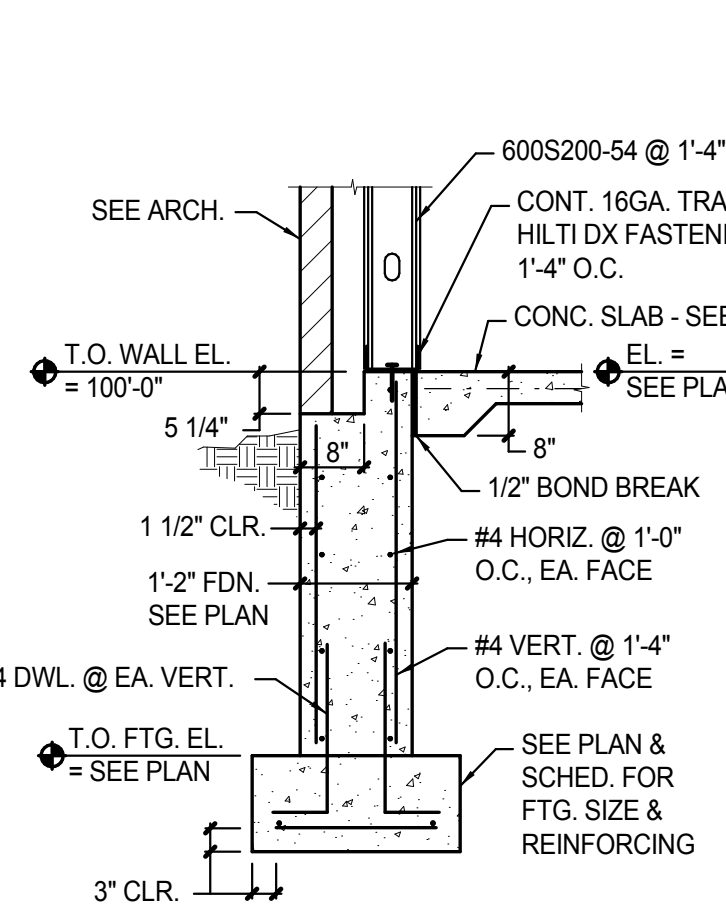
21 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



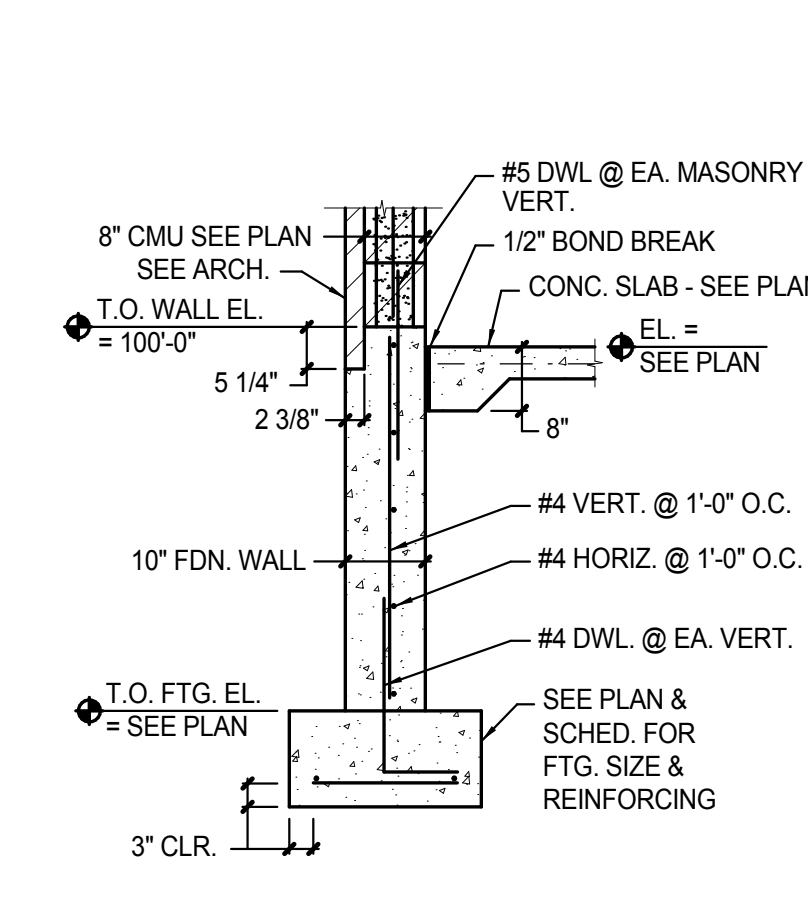
22 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



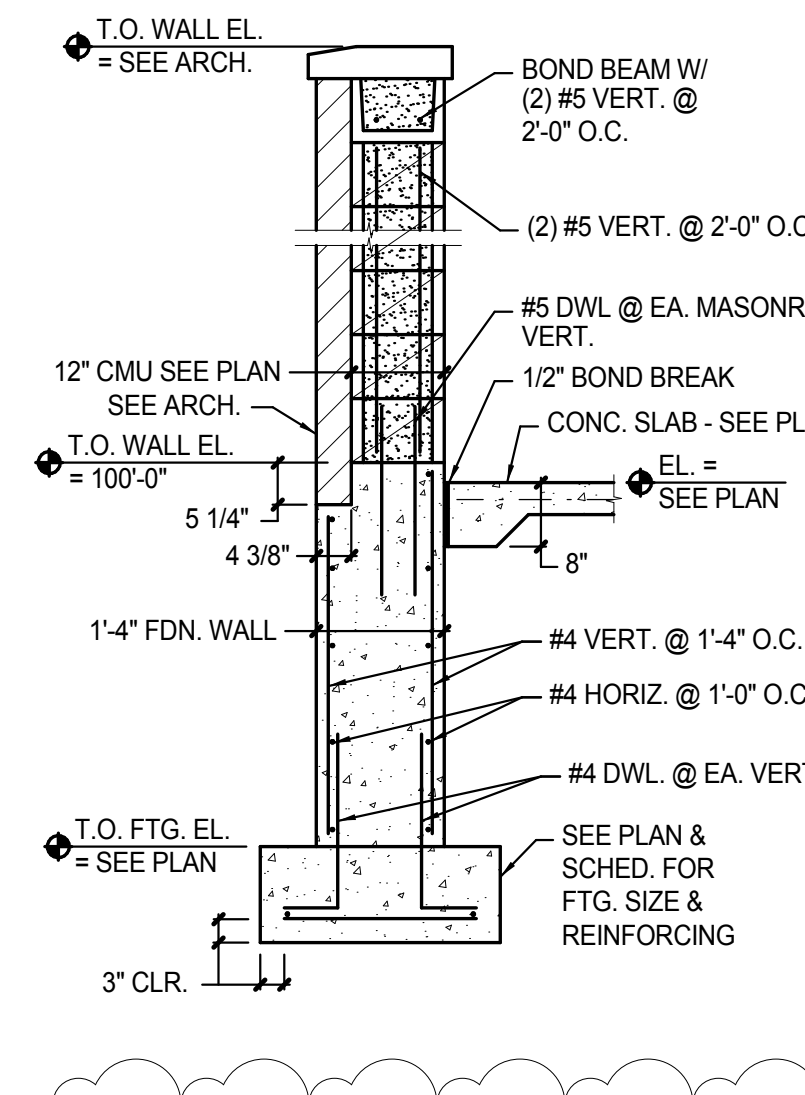
23 PIER DETAIL
S3.1 1/2" = 1'-0"



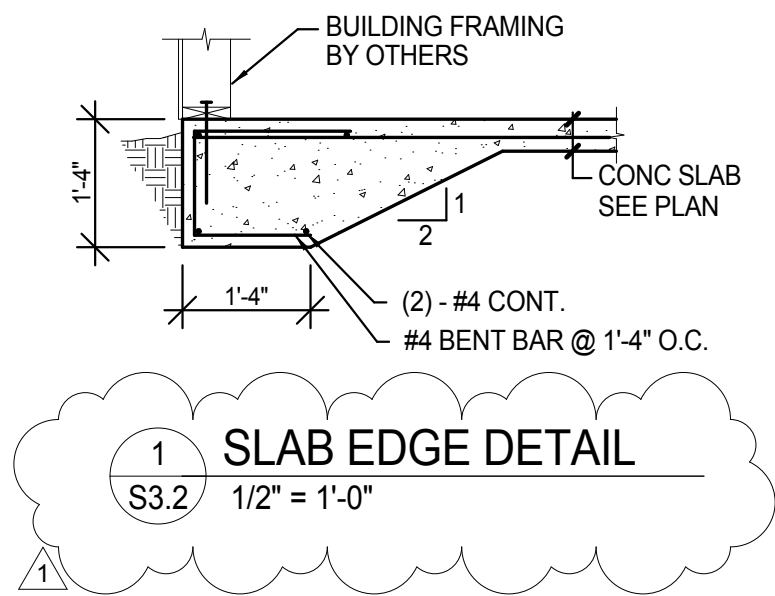
24 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



25 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



26 SCREEN WALL FND. DETAIL
S3.1 1/2" = 1'-0"



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04/14/2016 ADDENDUM #1

BID GROUP 1

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Print Name: Eric A Greiff
Signature:
Date: 04/14/2016 Registration No. 41855

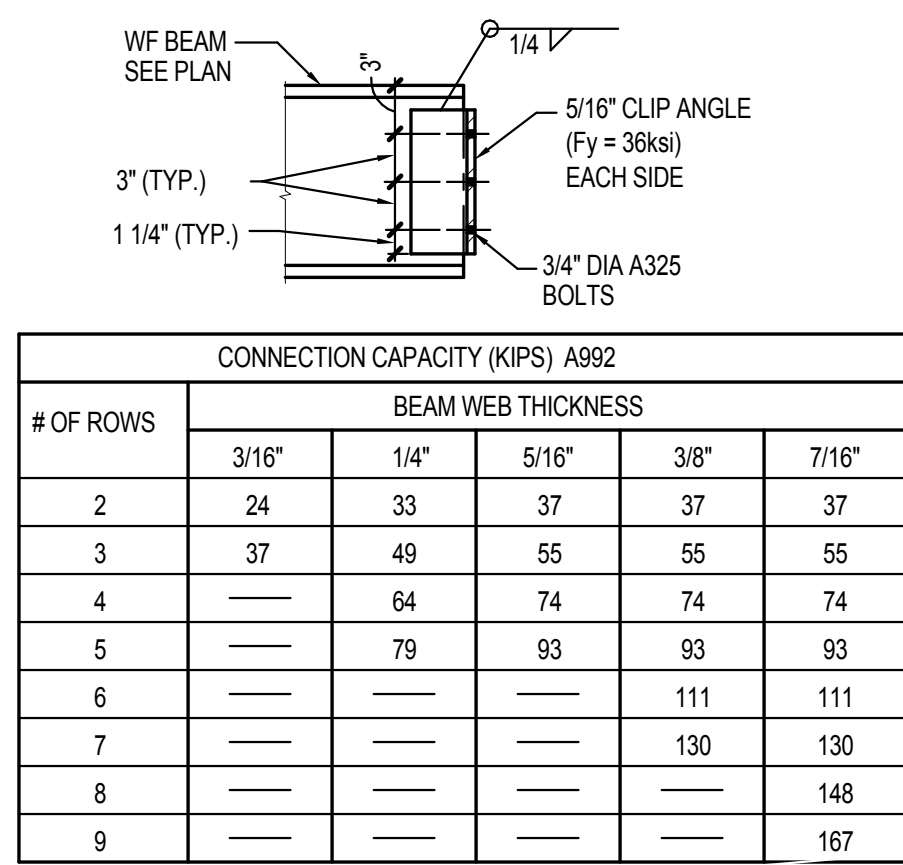


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FOOTING & FOUNDATION DETAILS

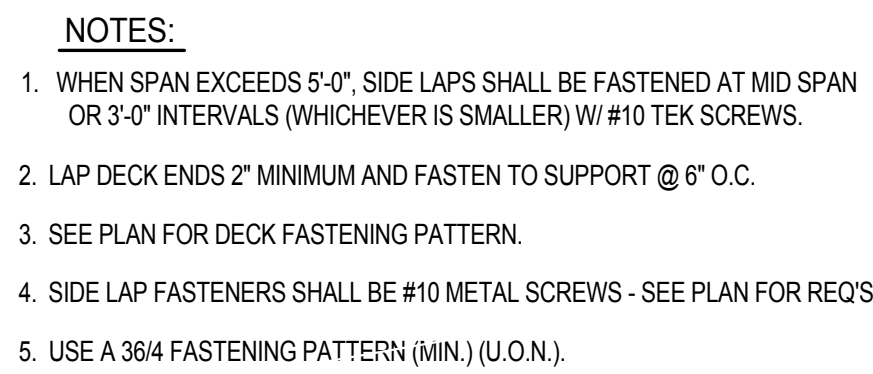
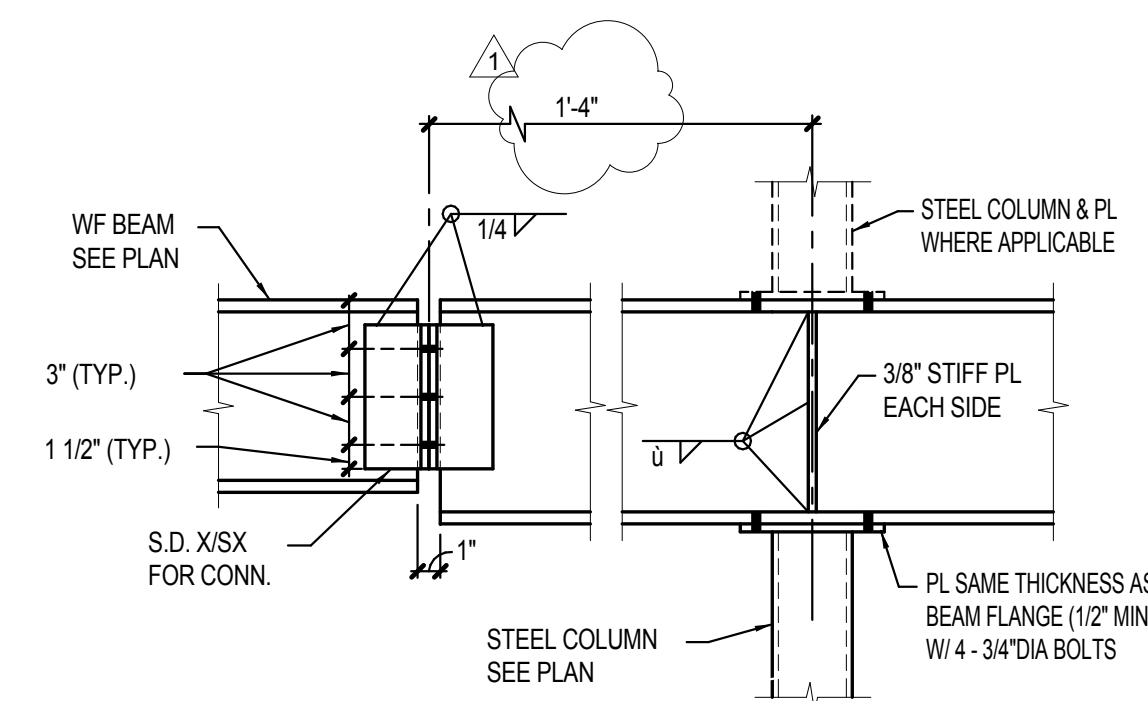
Project No.: 15-032
Date: 04/14/2016

S3.2

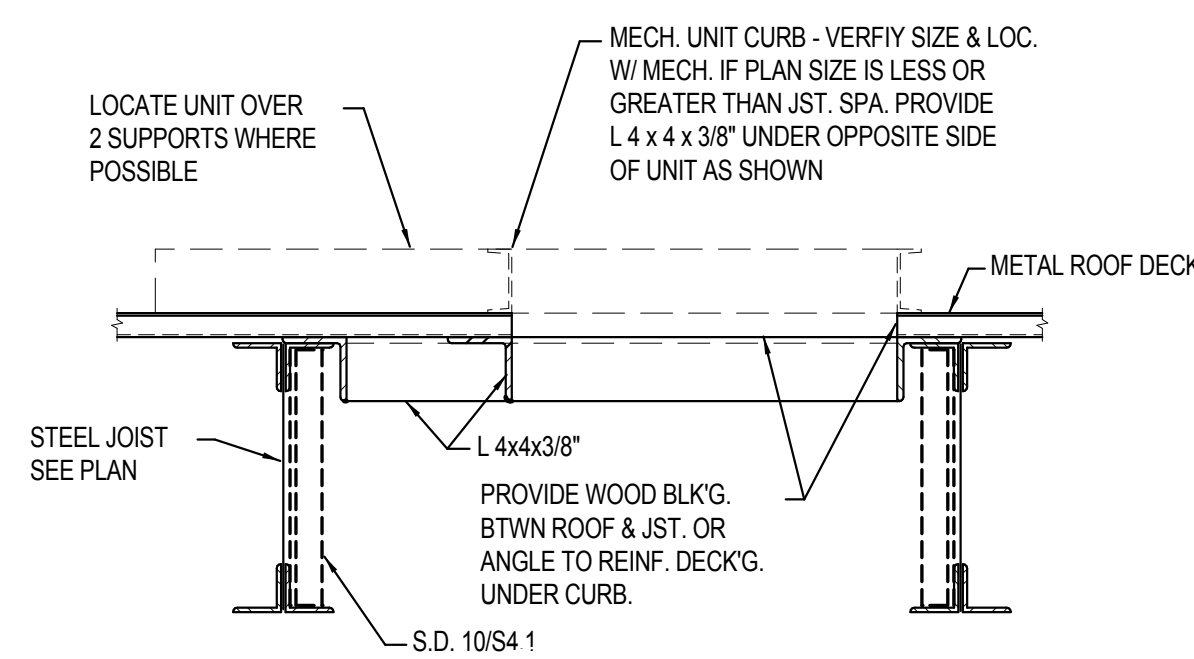
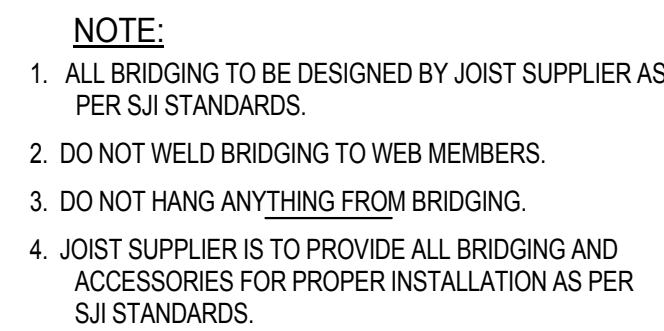


NOTE:
USE NUMBER OF ROWS OF BOLTS REQ'D.
BASED ON REACTIONS LISTED ON PLANS.
USE MINIMUM ROWS AS LISTED

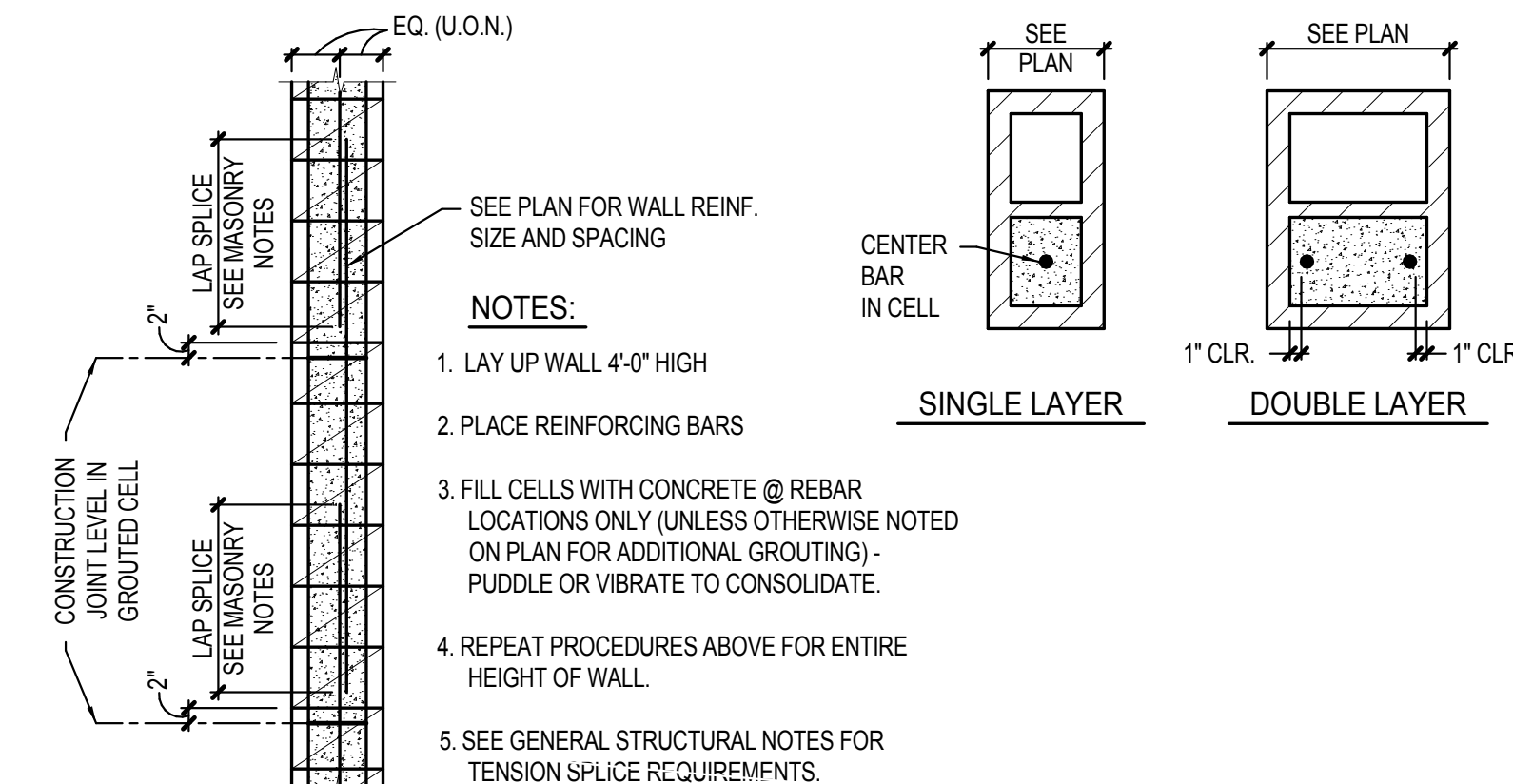
BM. SIZE	MIN. ROWS OF BOLTS
W 8, 10	2
W 12, 14, 16	3
W 18, 21	4
W 24, 27, 30	5



5 ROOF DECK FASTENING
S4.1 NO SCALE

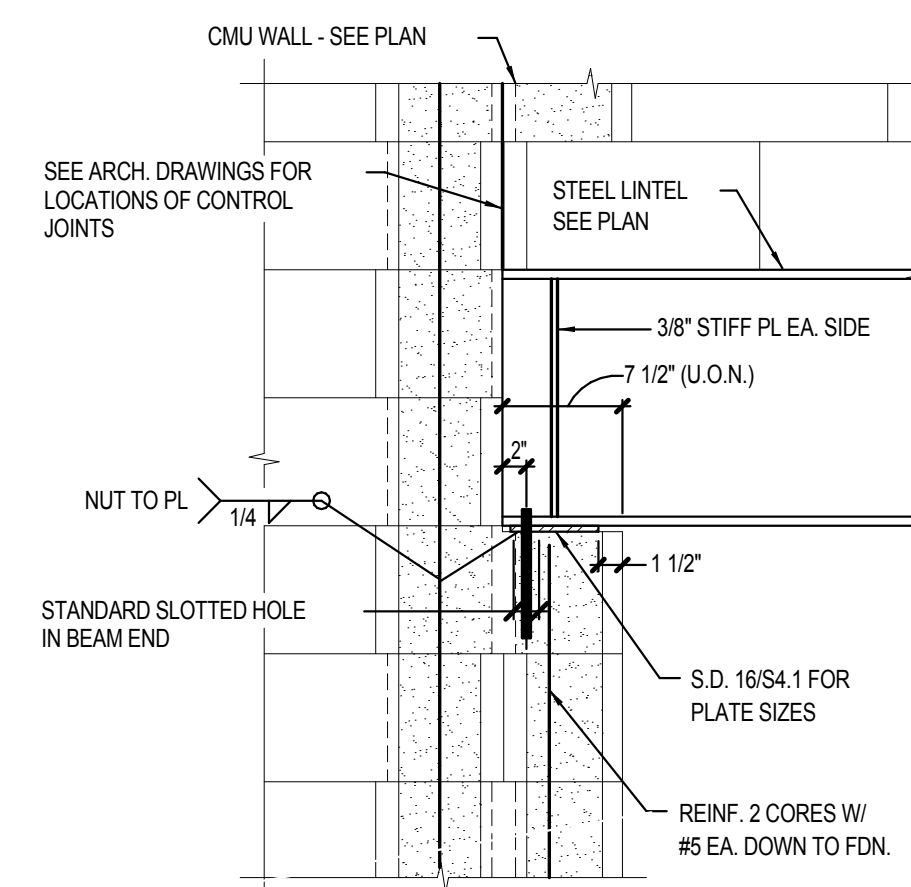


9 MECHANICAL SUPPORT DETAIL
S4.1 1" = 1'-0"



14 REINFORCING MASONRY WALL

S4.1 NO SCALE

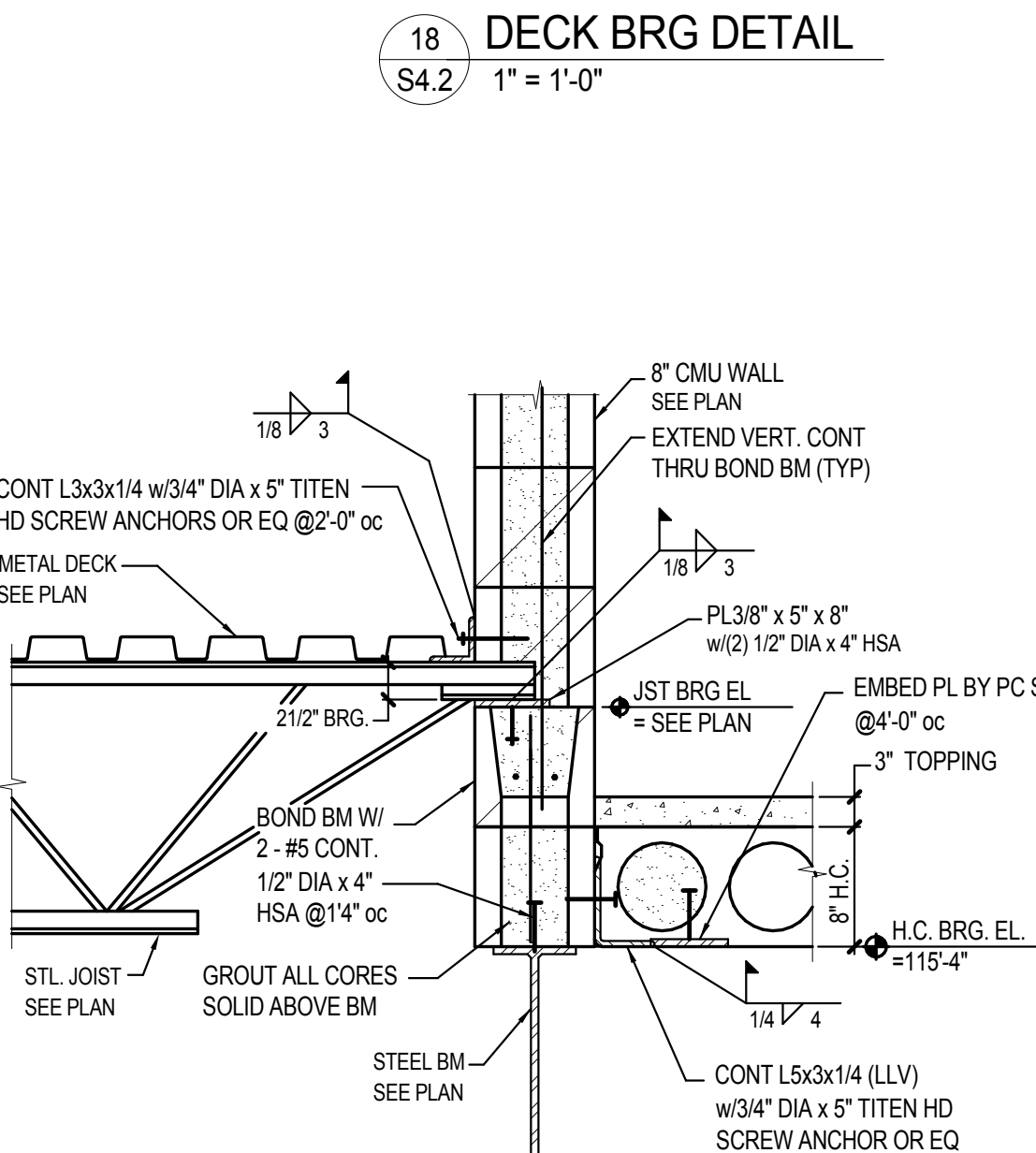
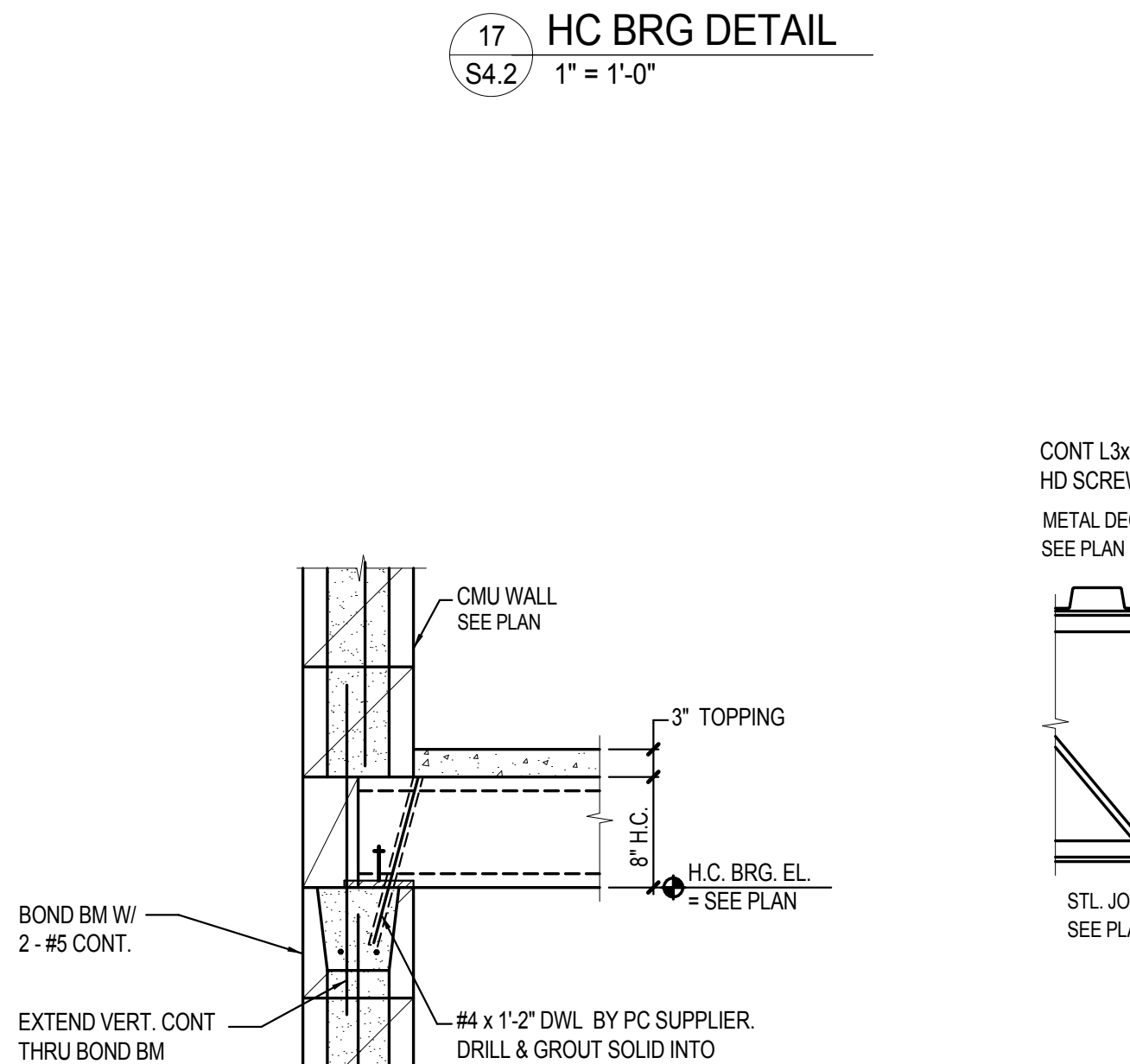
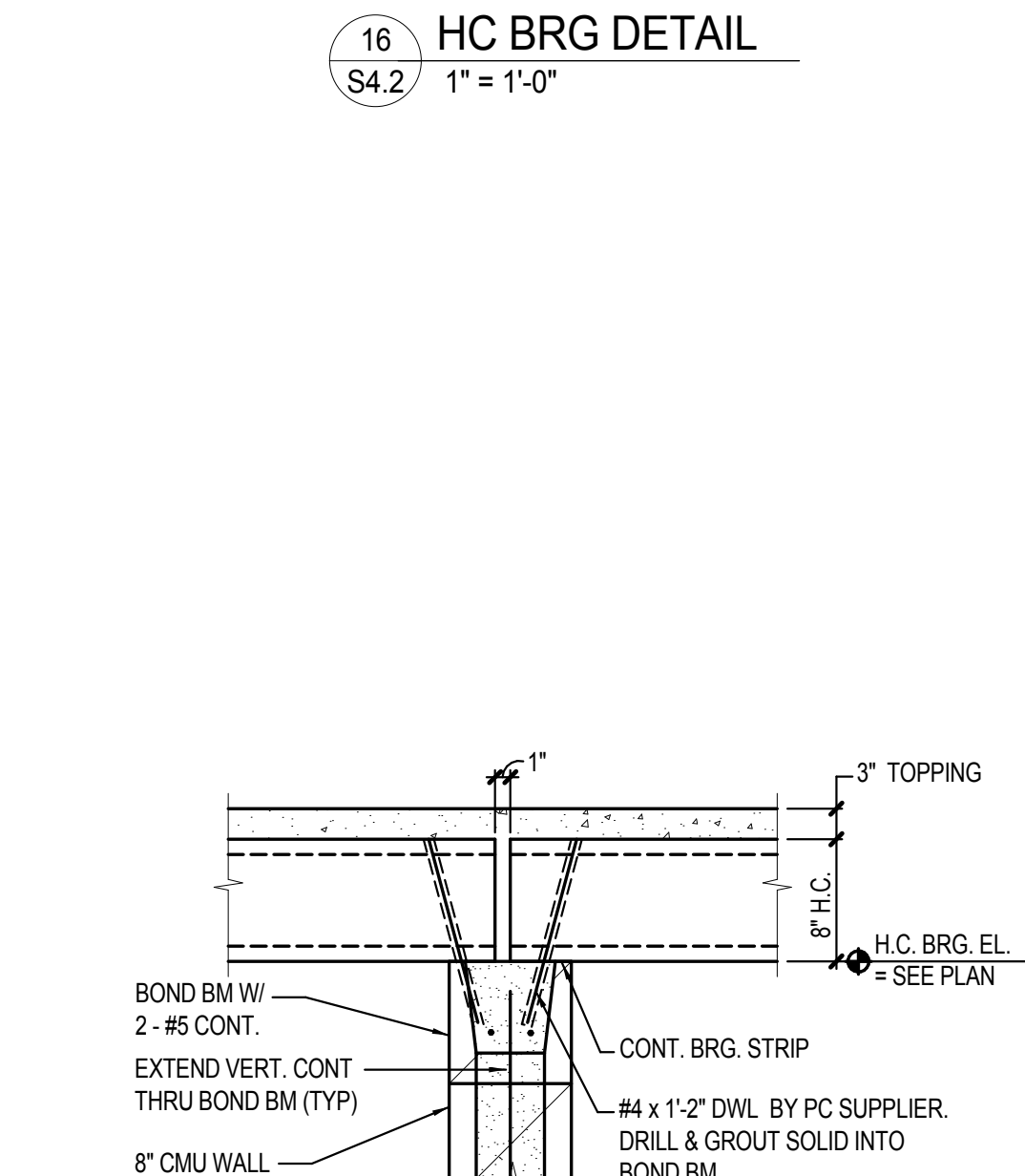
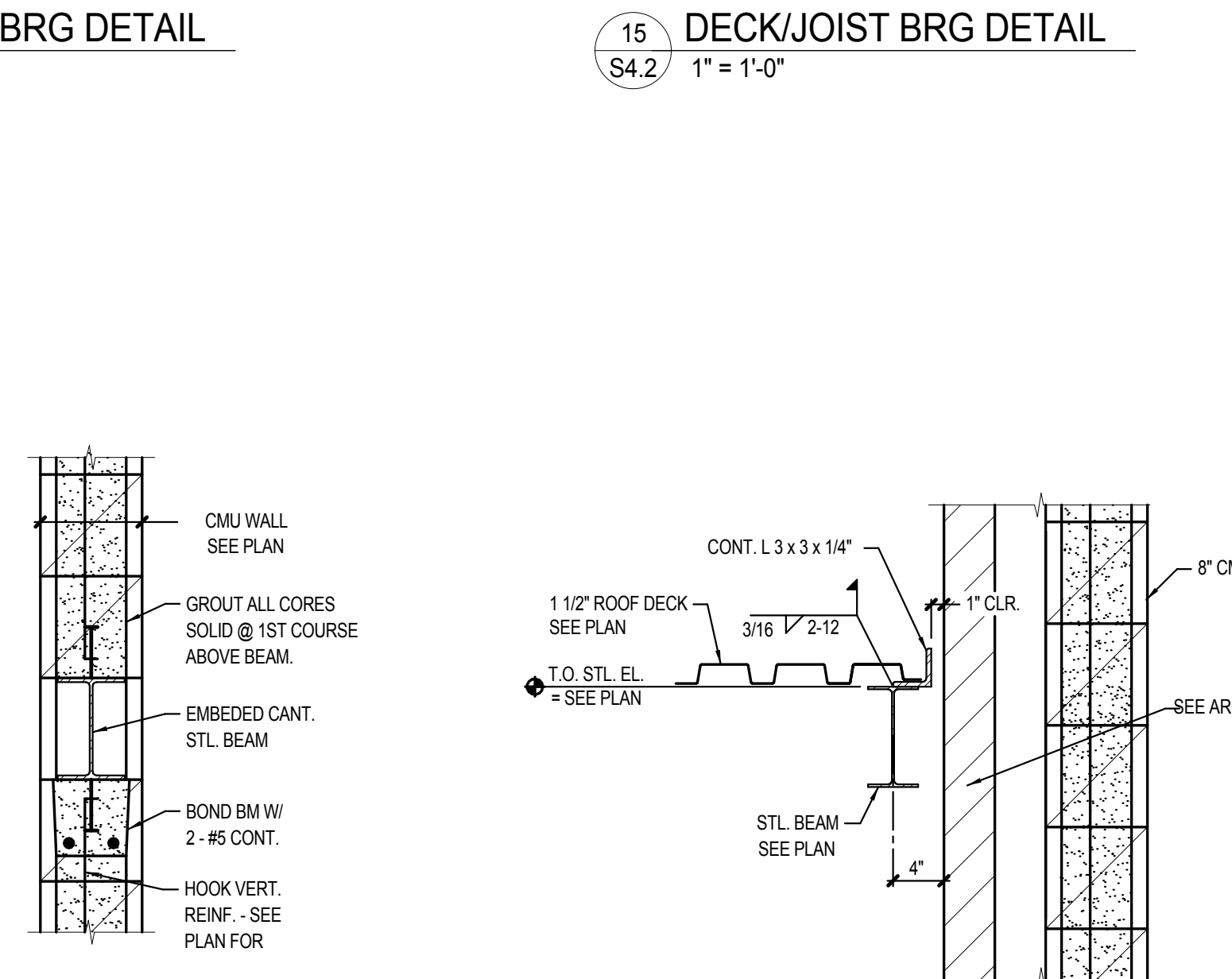
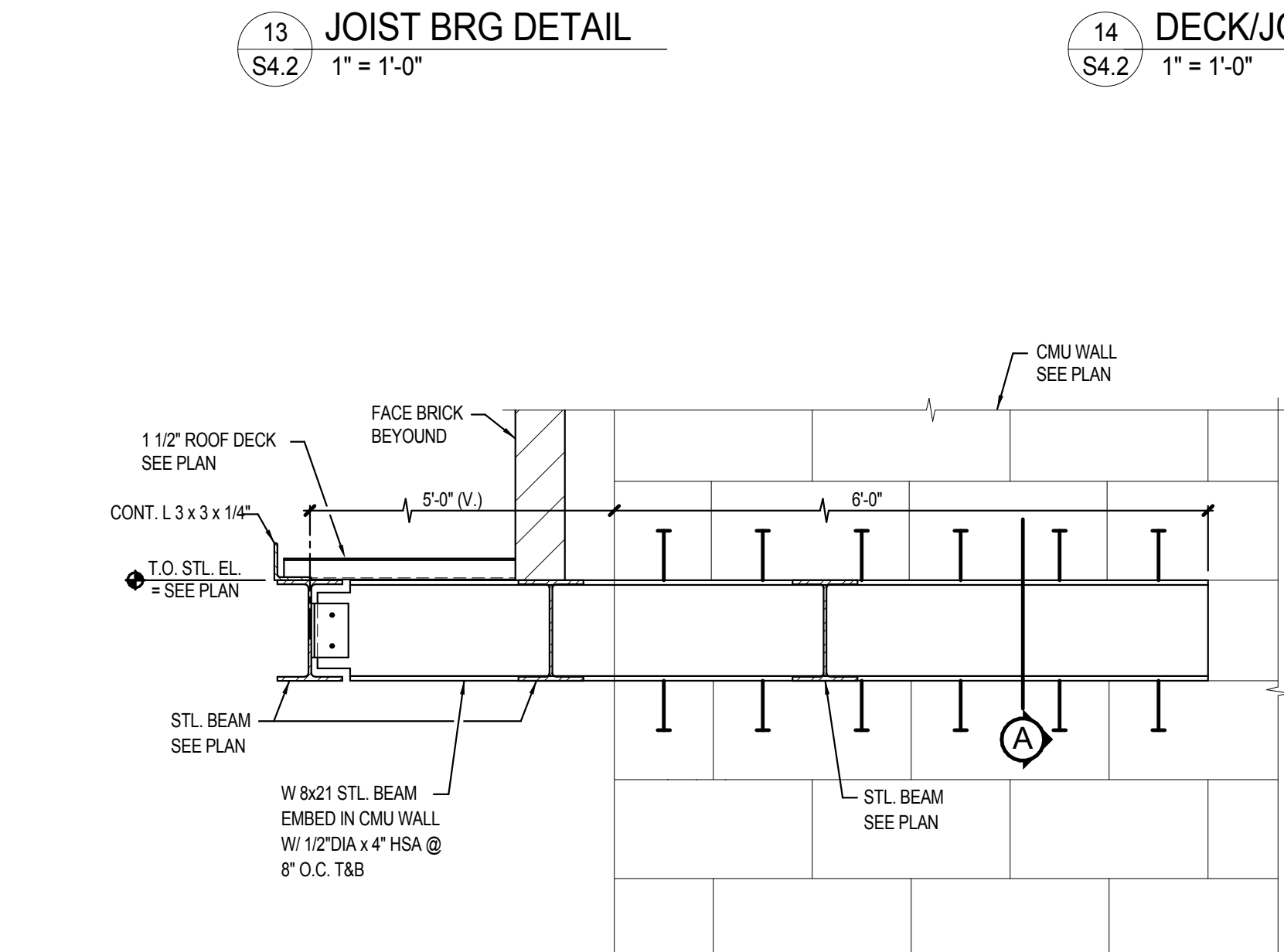
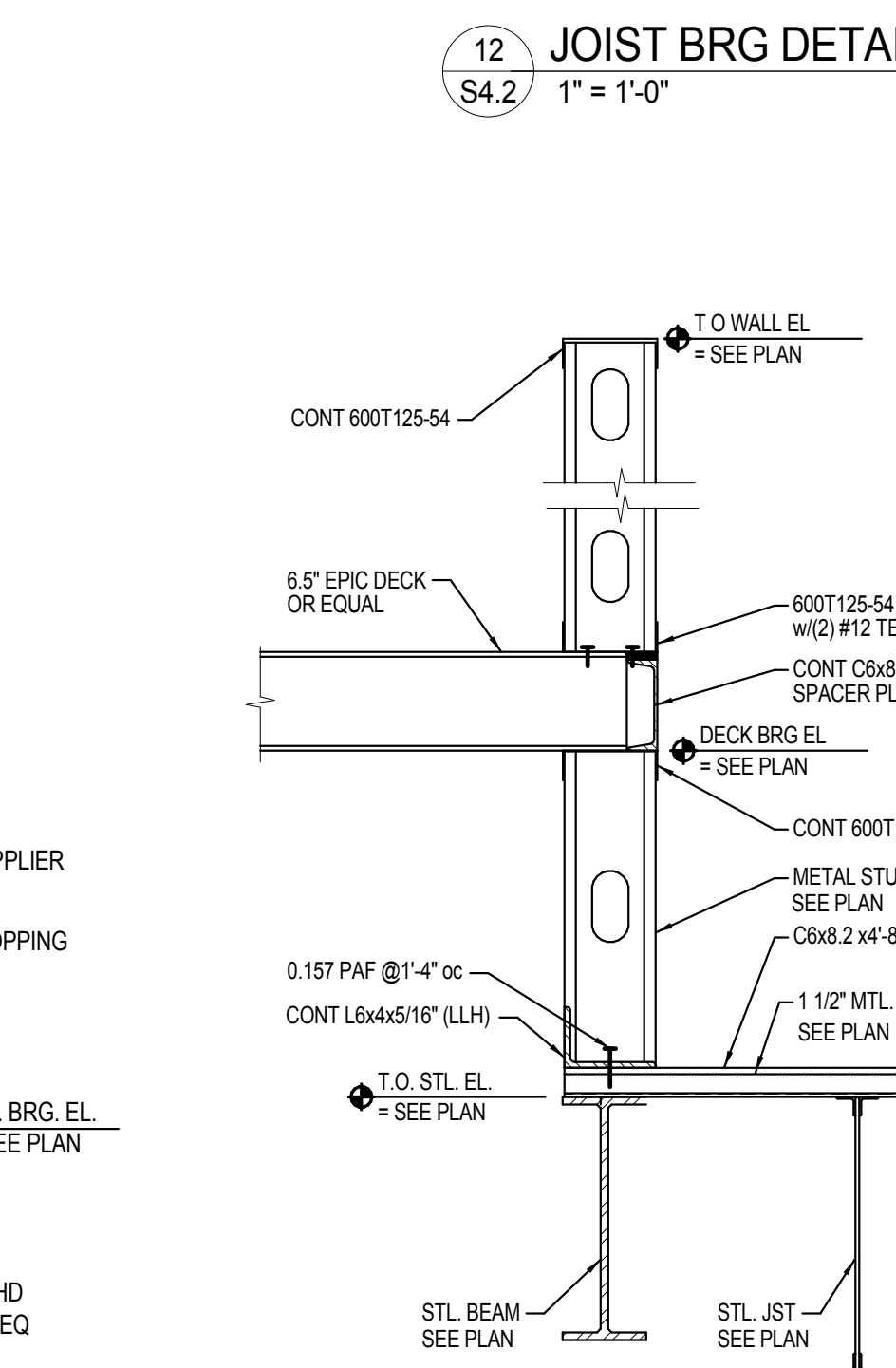
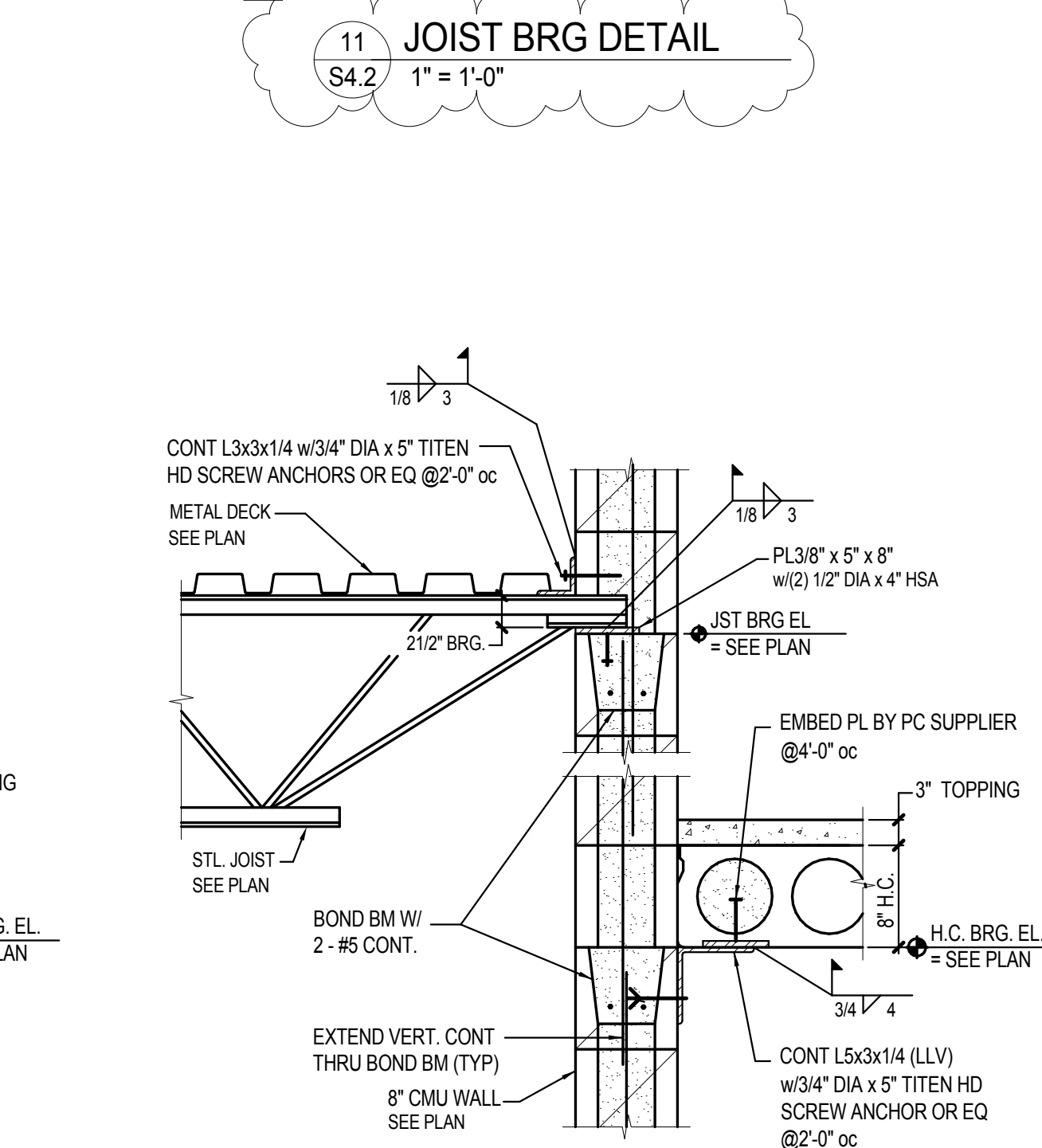
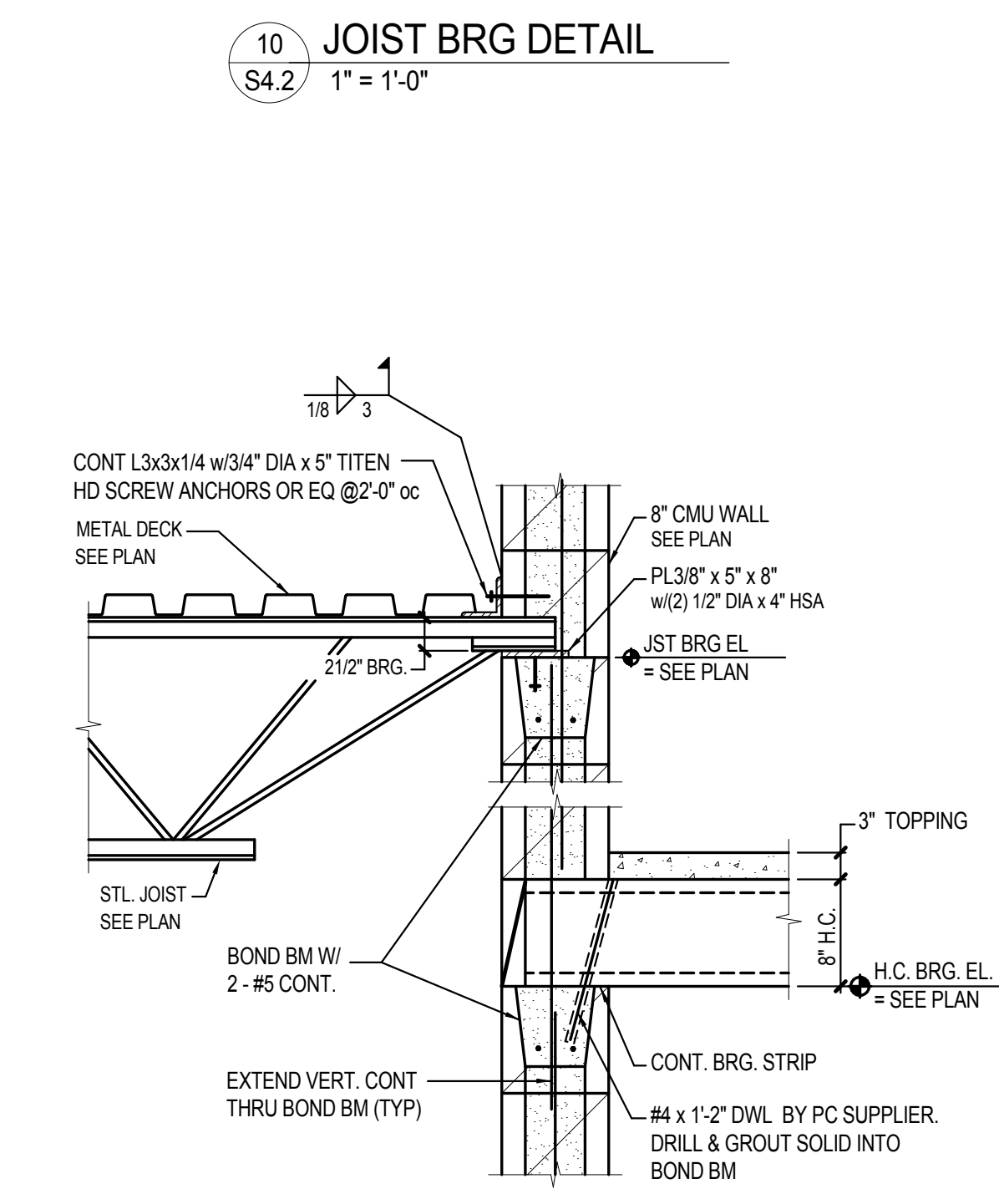
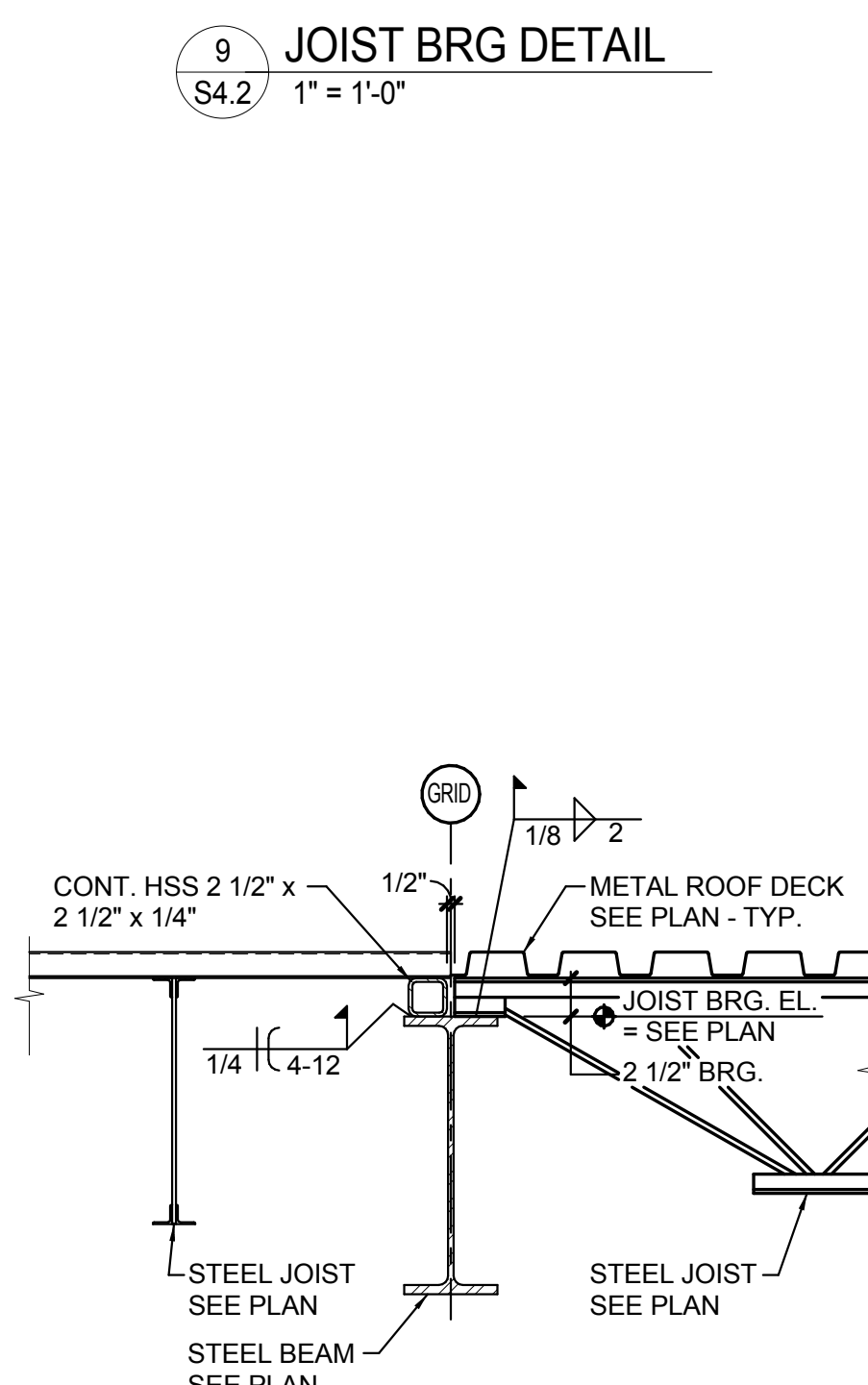
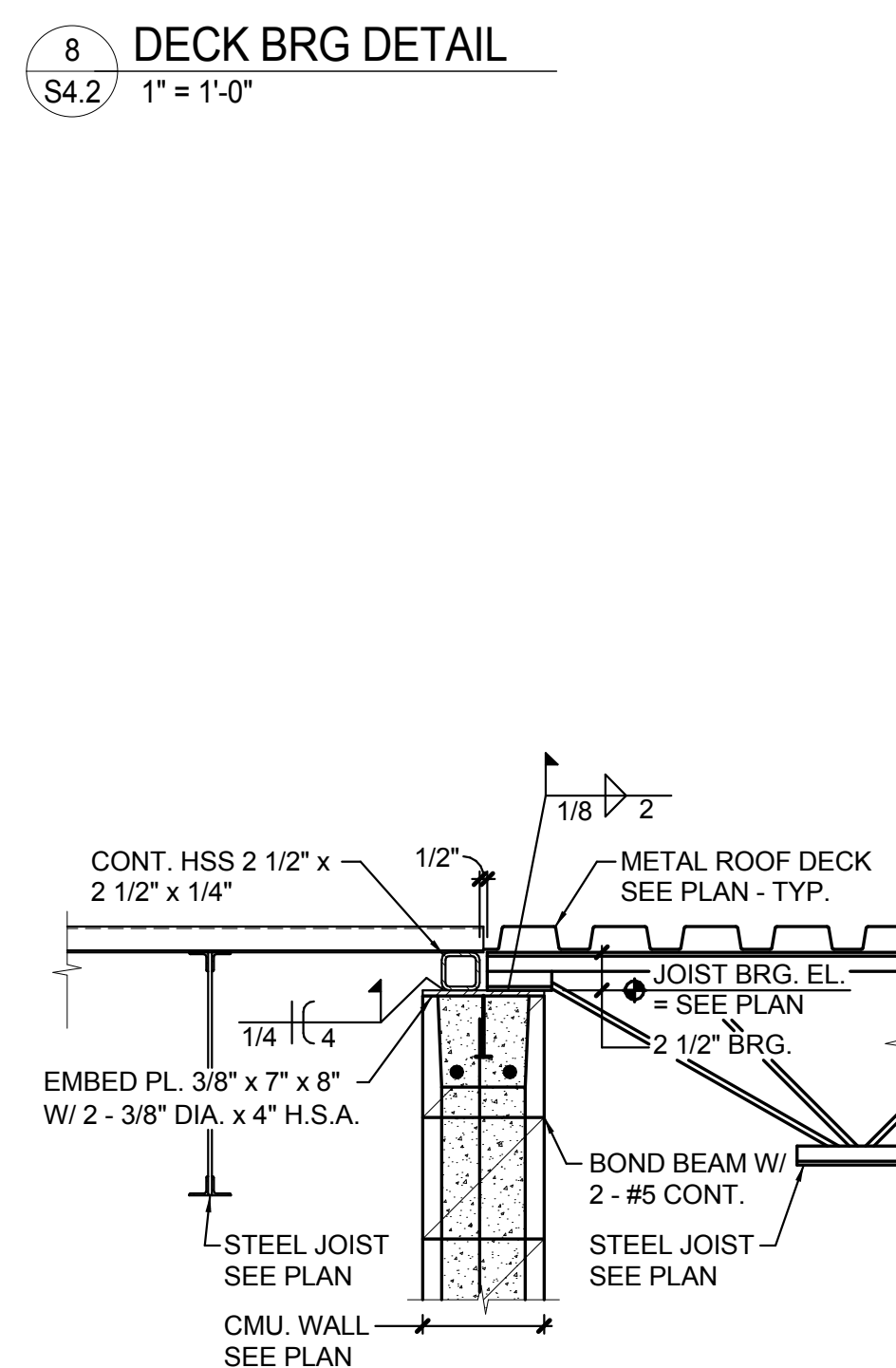
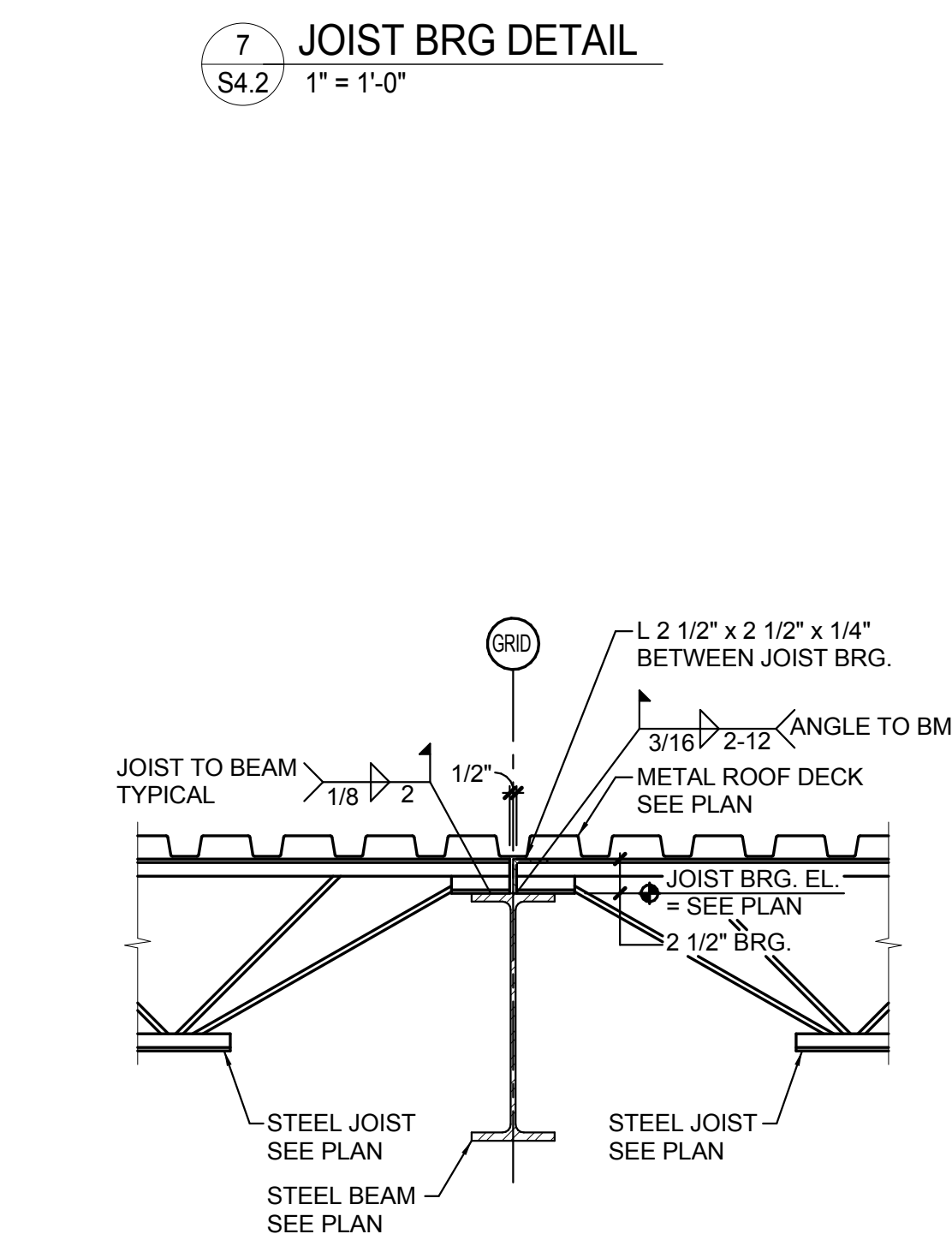
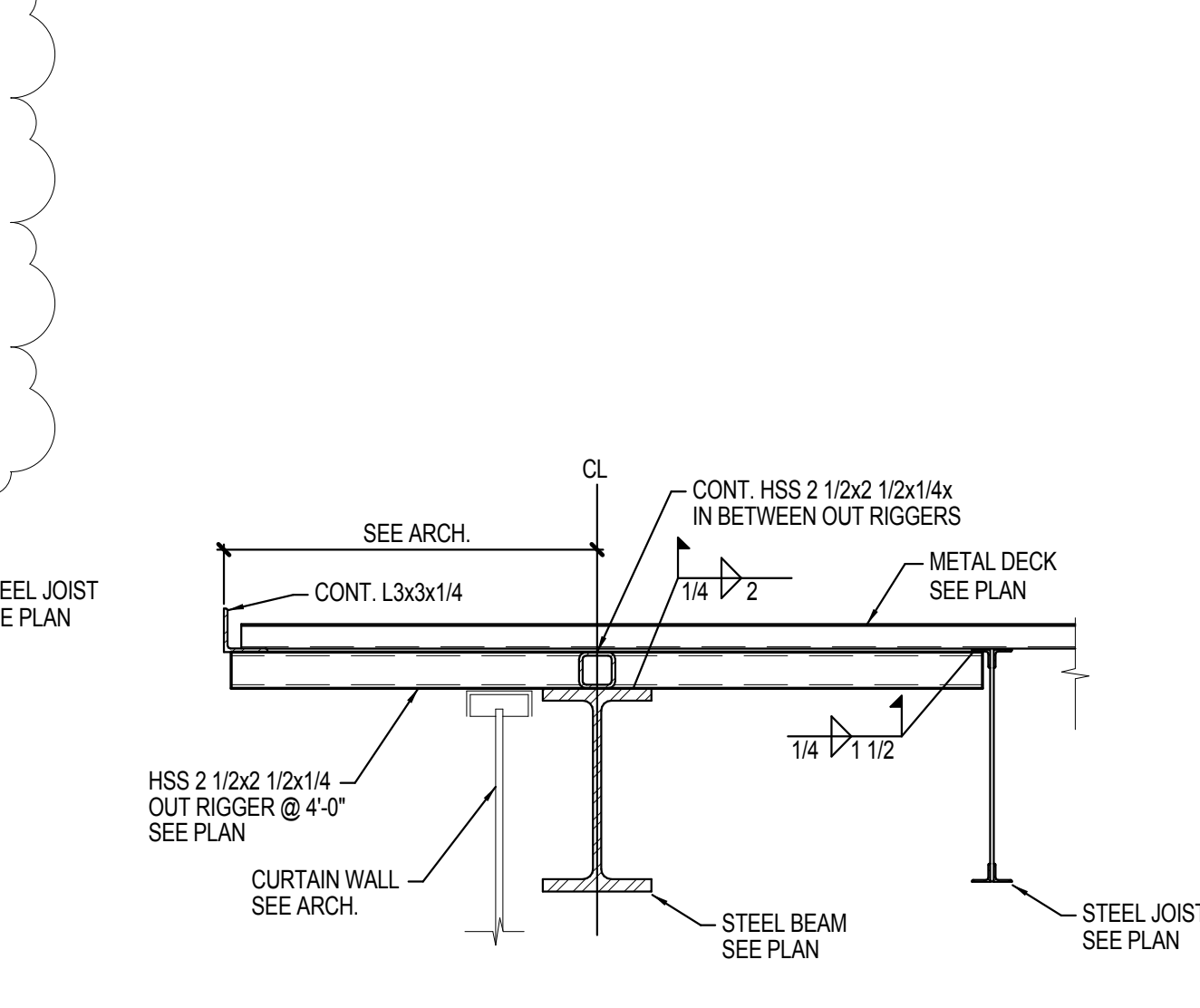
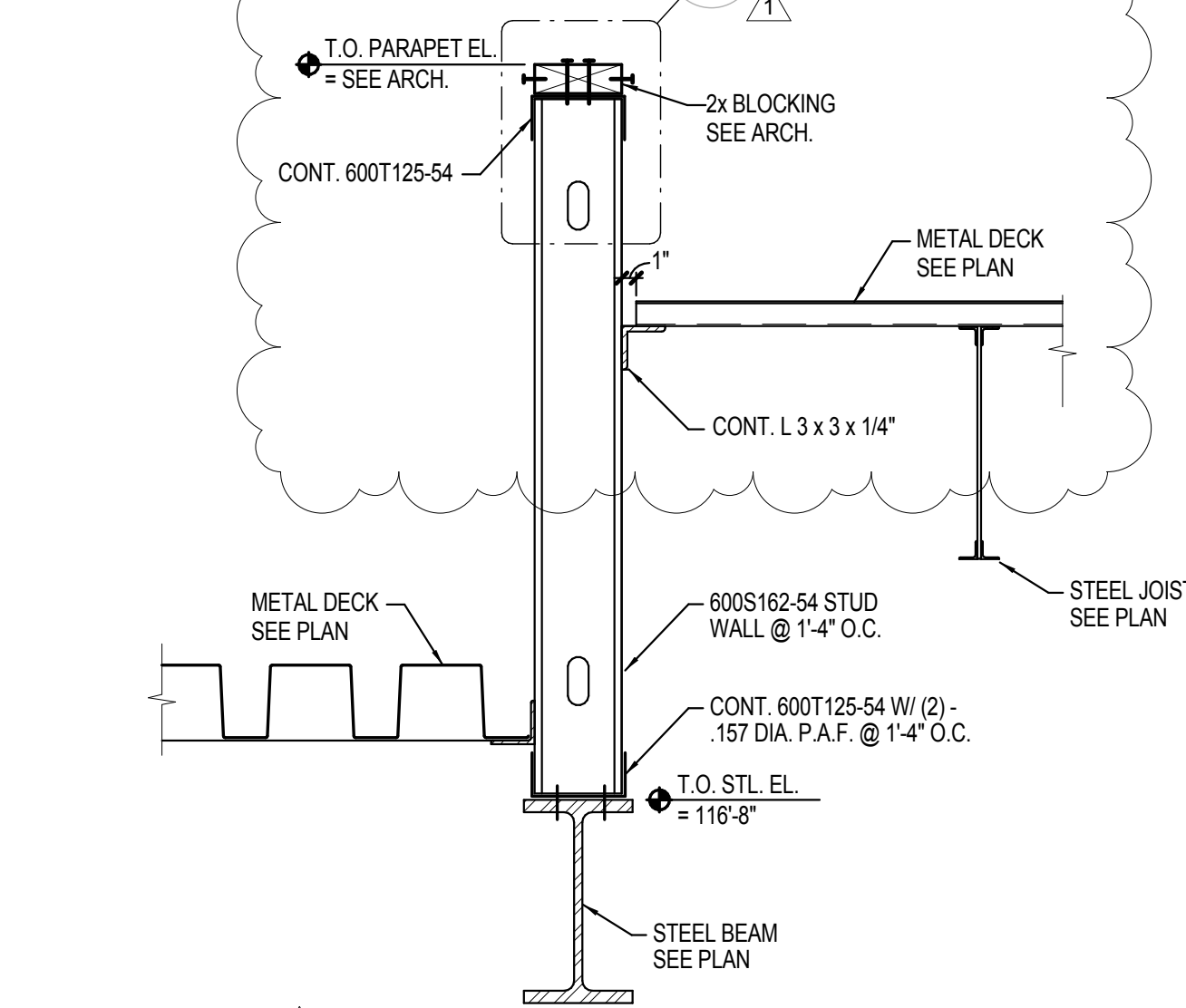
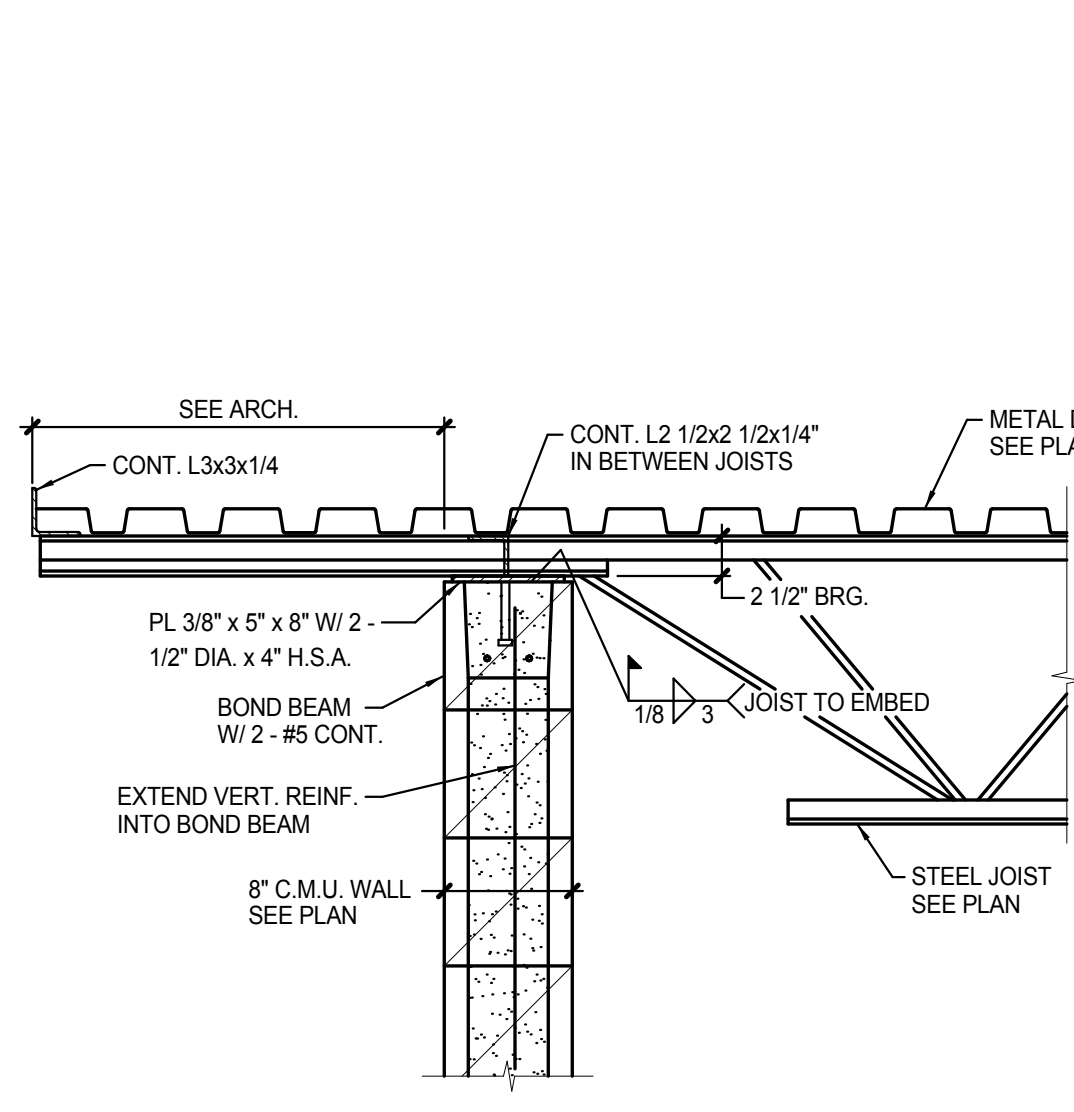
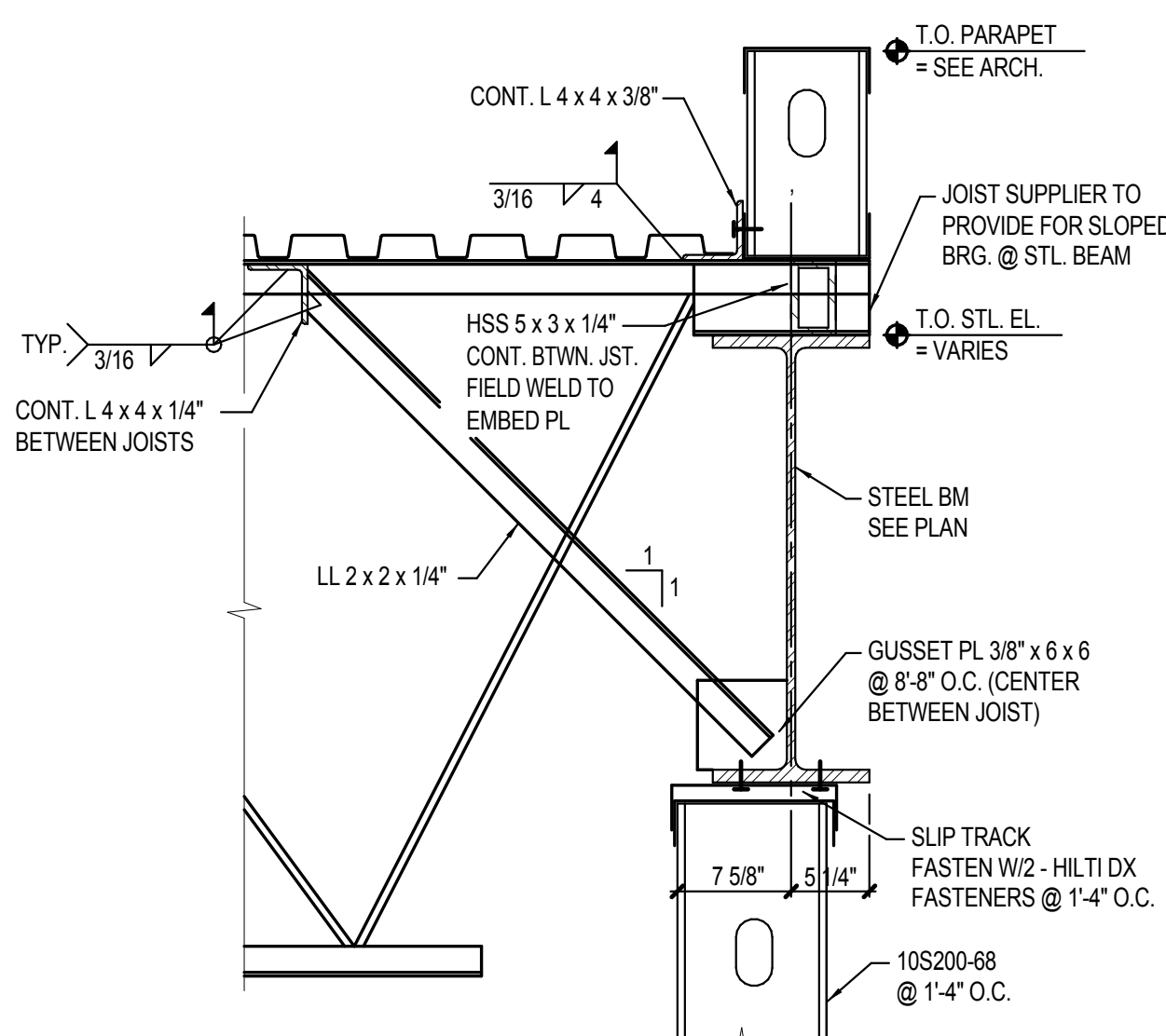
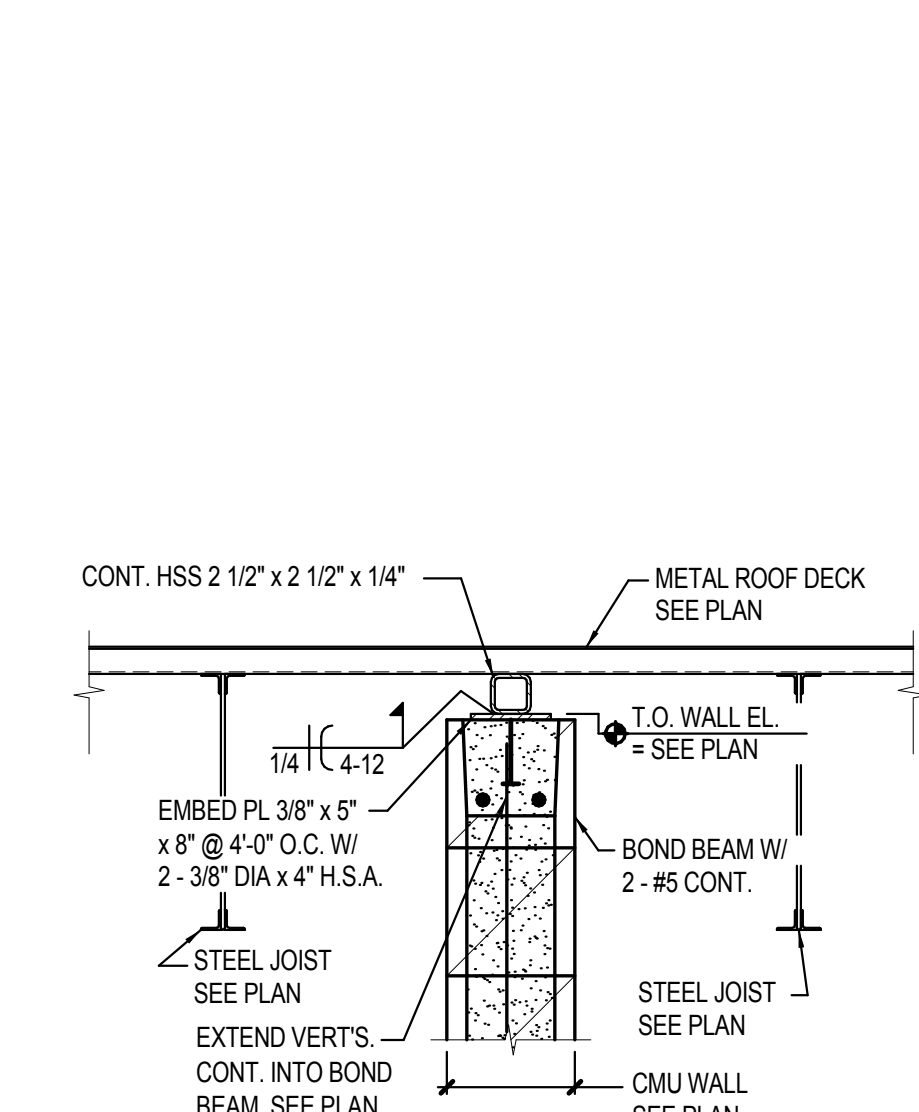
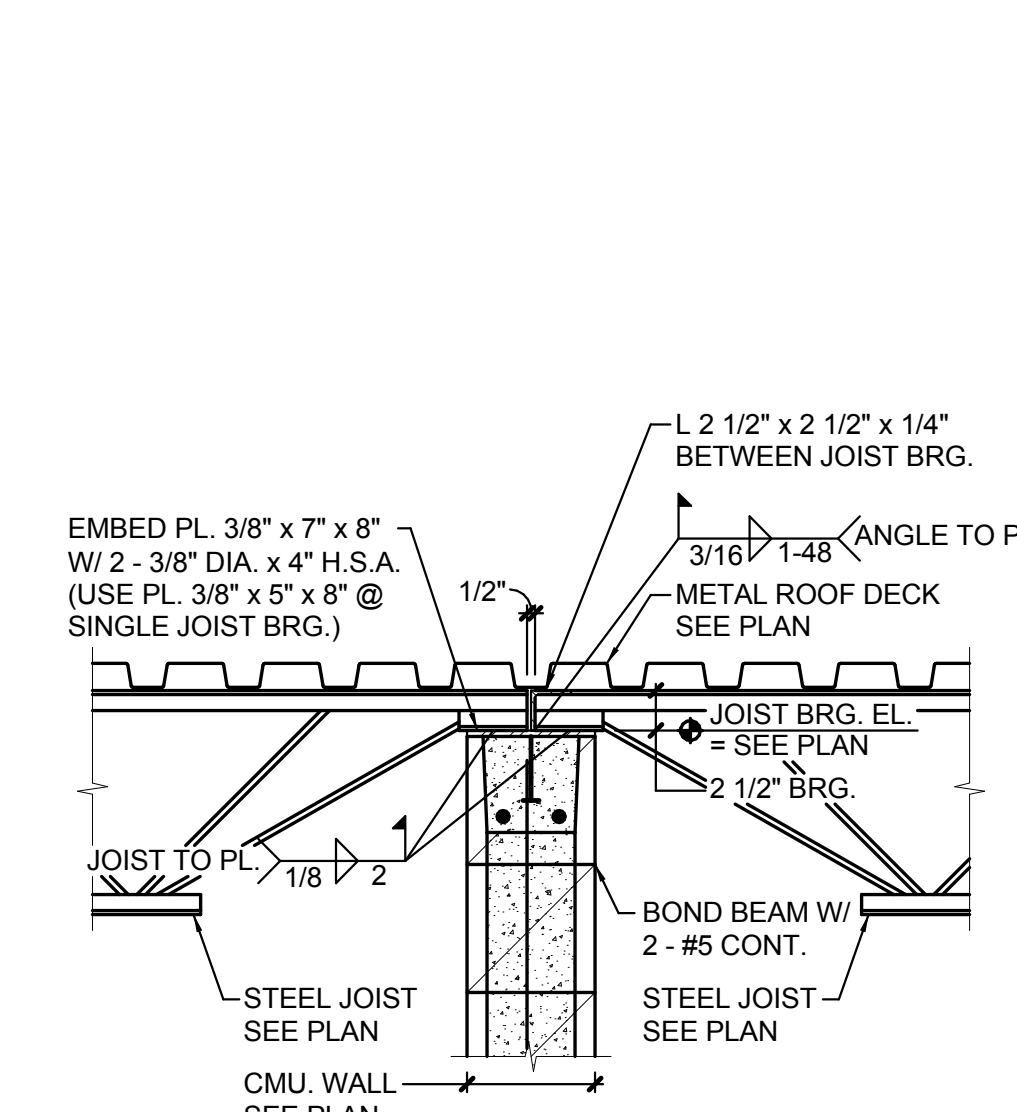
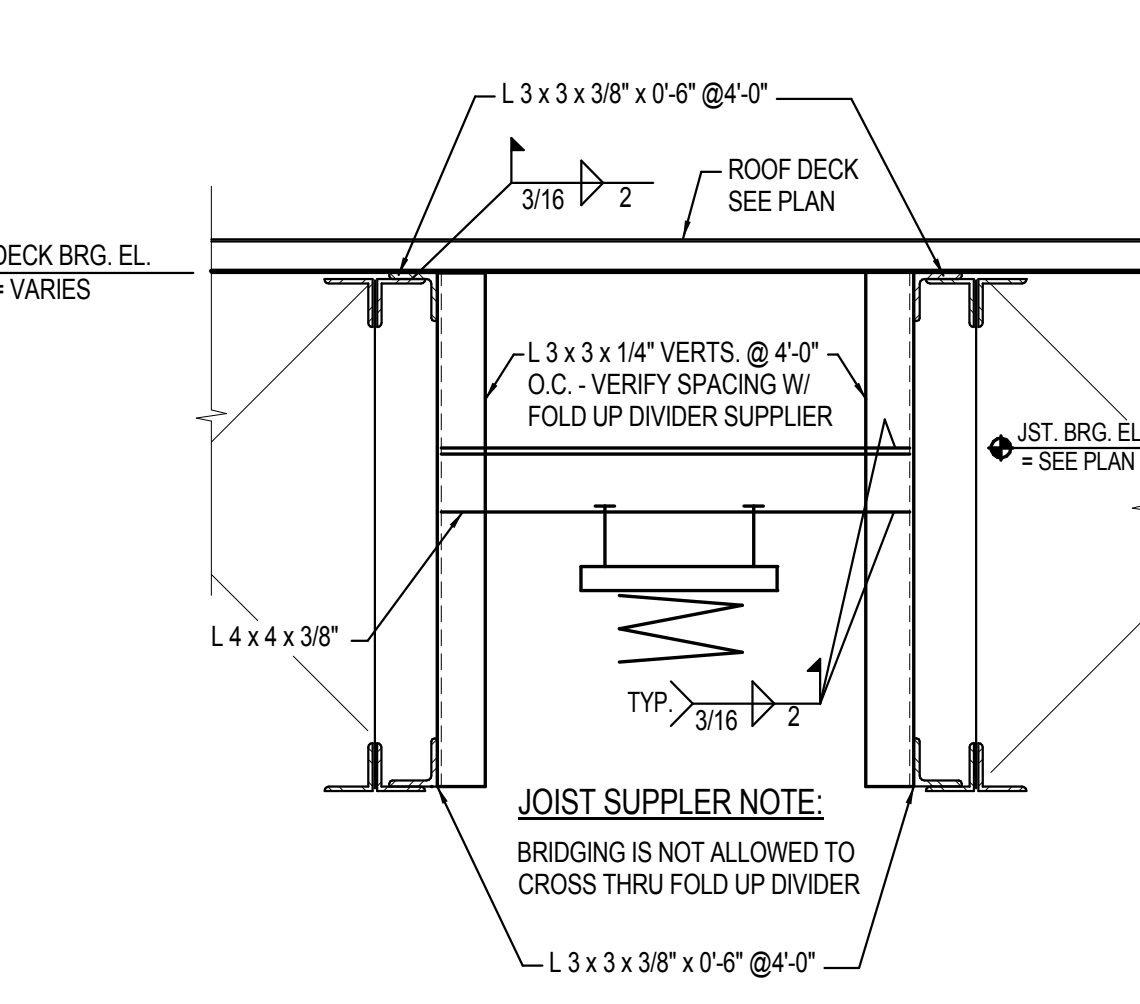
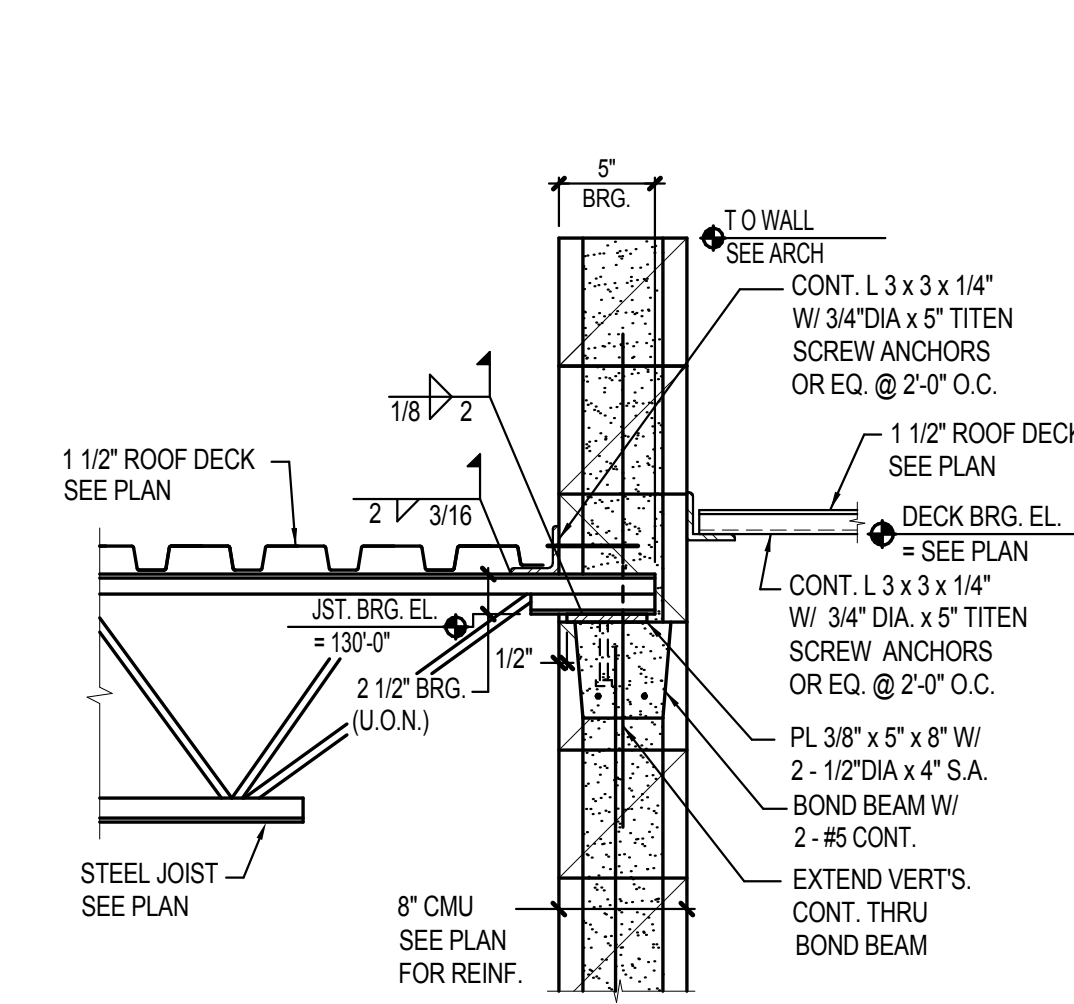
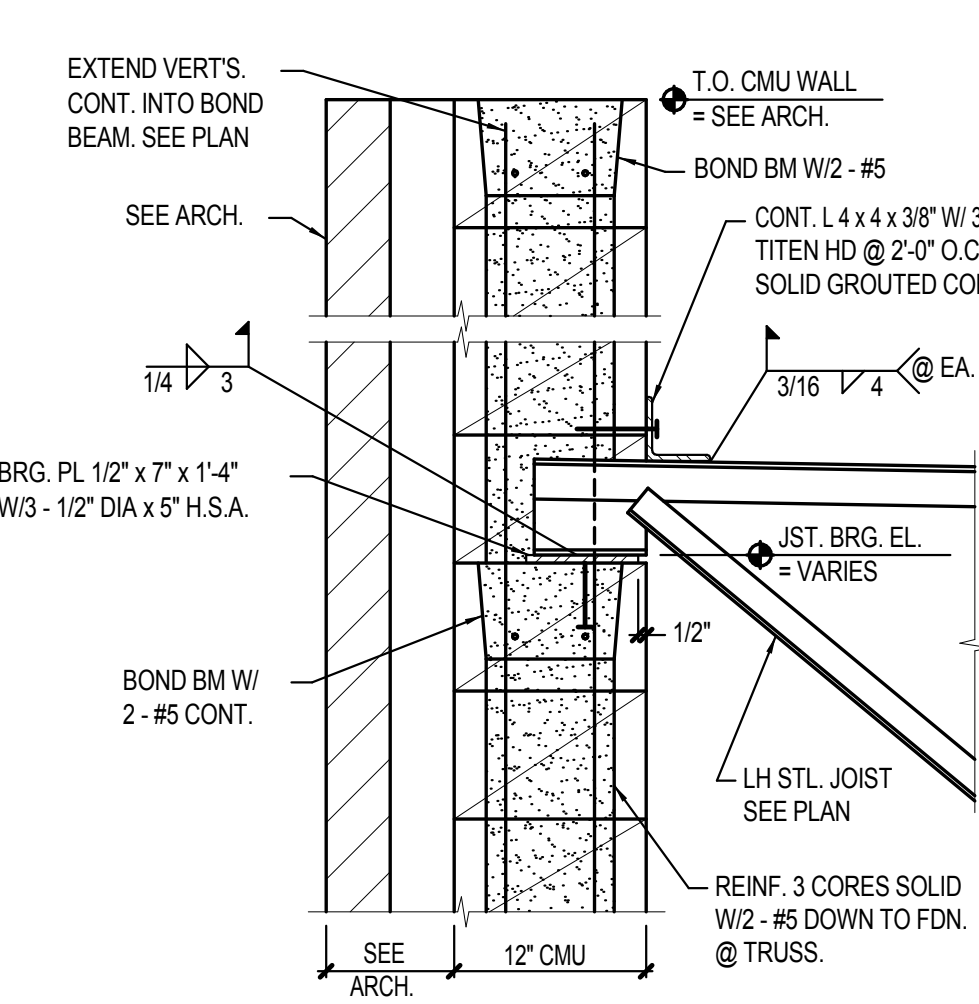
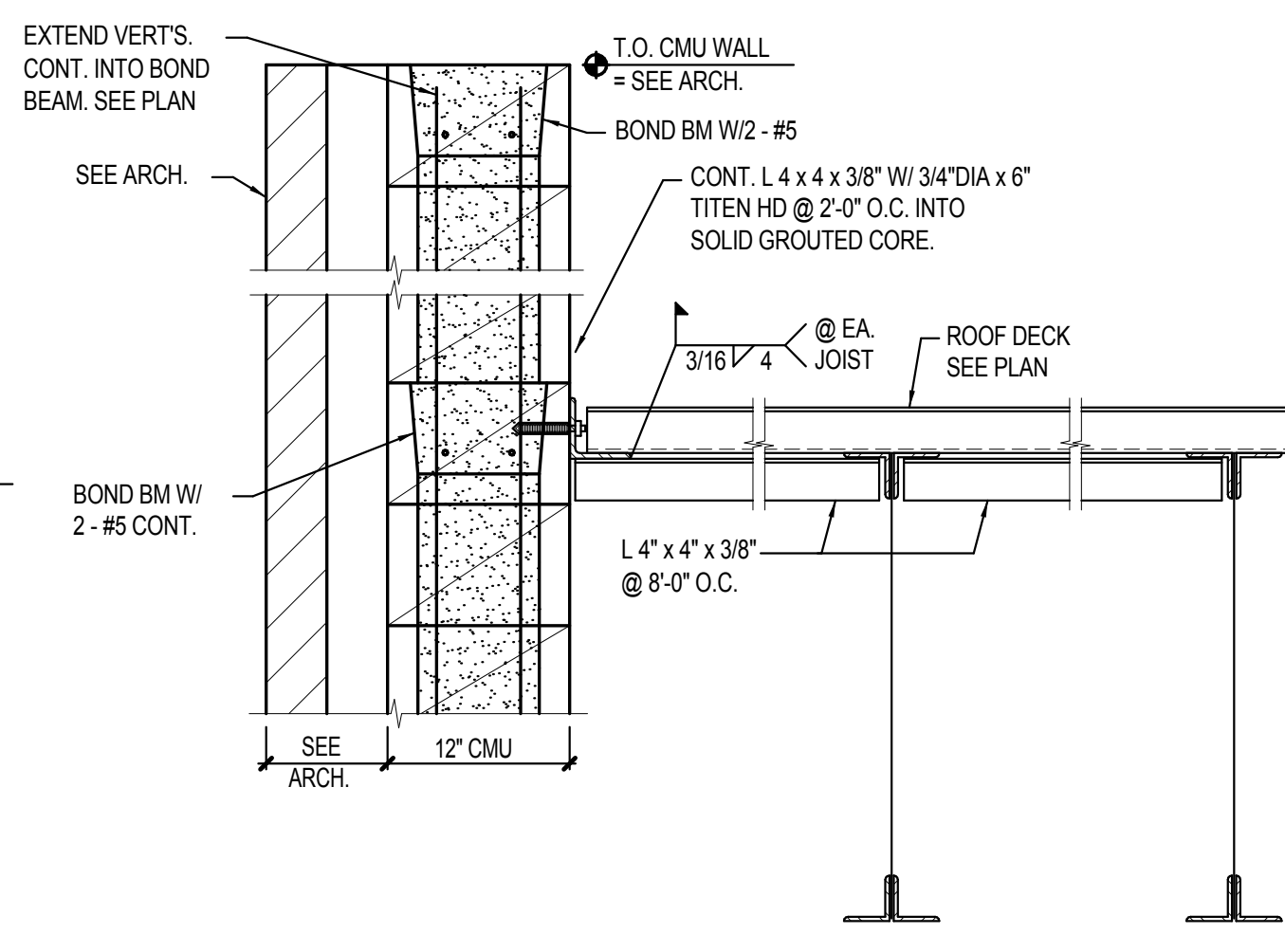
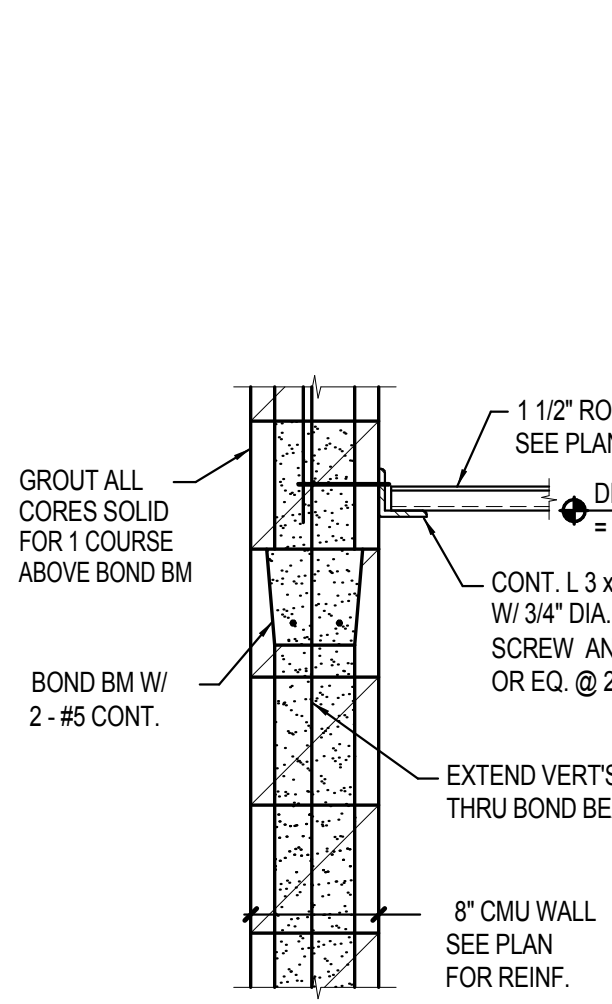
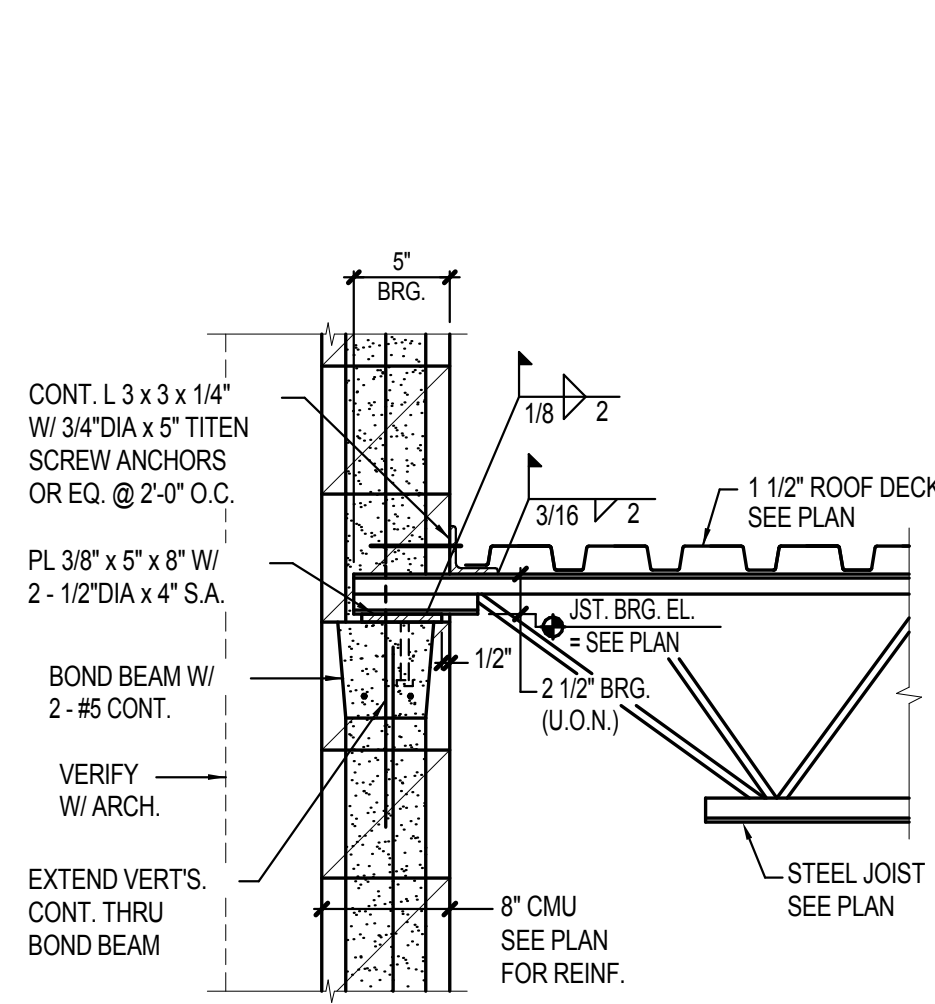


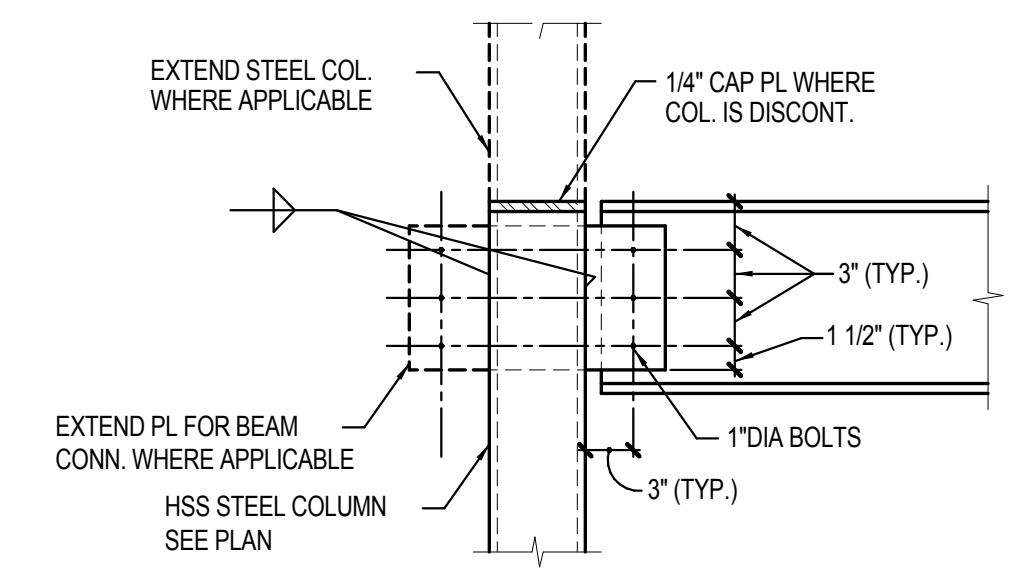
18 LINTEL DETAIL
S4.1 1" = 1'-0"

SPAN	4" VENEER	8" WALL SEE DETAIL 15S-1	12" WALL SEE DETAIL 15S-1	16" WALL SEE DETAIL 15S-1
0 - 4'	L 3 1/2"x3 1/2"x14"	2 - L 3 1/2"x3 1/2"x14"	W 8x10 W/ PL 14"	W 8x10 W/ PL 14"
4' - 8'	L 4"x3 1/2"x14"	2 - 4"x3 1/2"x14"	W 8x10 W/ PL 14"	W 8x10 W/ PL 14"
8' - 8'	L 5"x3 1/2"x14"	2 - 5"x3 1/2"x14"	W 8x10 W/ PL 14"	W 8x10 W/ PL 14"
8' - 12'	L 6"x3 1/2"x14"	W 8x10 W/ PL 14"	W 8x24 W/ PL 14"	W 8x26 W/ PL 14"

- NOTES:**
1. THIS SCHEDULE IS FOR ALL LINTELS WHICH HAVE NOT BEEN CALLED OUT OR DETAILED.
 2. LINTELS SHALL HAVE A BEARING OF 2" PER FOOT OF SPAN @ EACH END (6" MIN.).
 3. SEE ARCHITECTURAL, MECHANICAL & ELECTRICAL PLANS FOR OPENINGS NOT SHOWN.
 4. ALL OPENINGS OVER 1'-4" IN LENGTH WILL REQUIRE A LINTEL - SUPPLY A MINIMUM 500' OF L 3/12" x 3/12" x 1/4" FOR MECHANICAL OPENINGS - S.D. 10/24.1

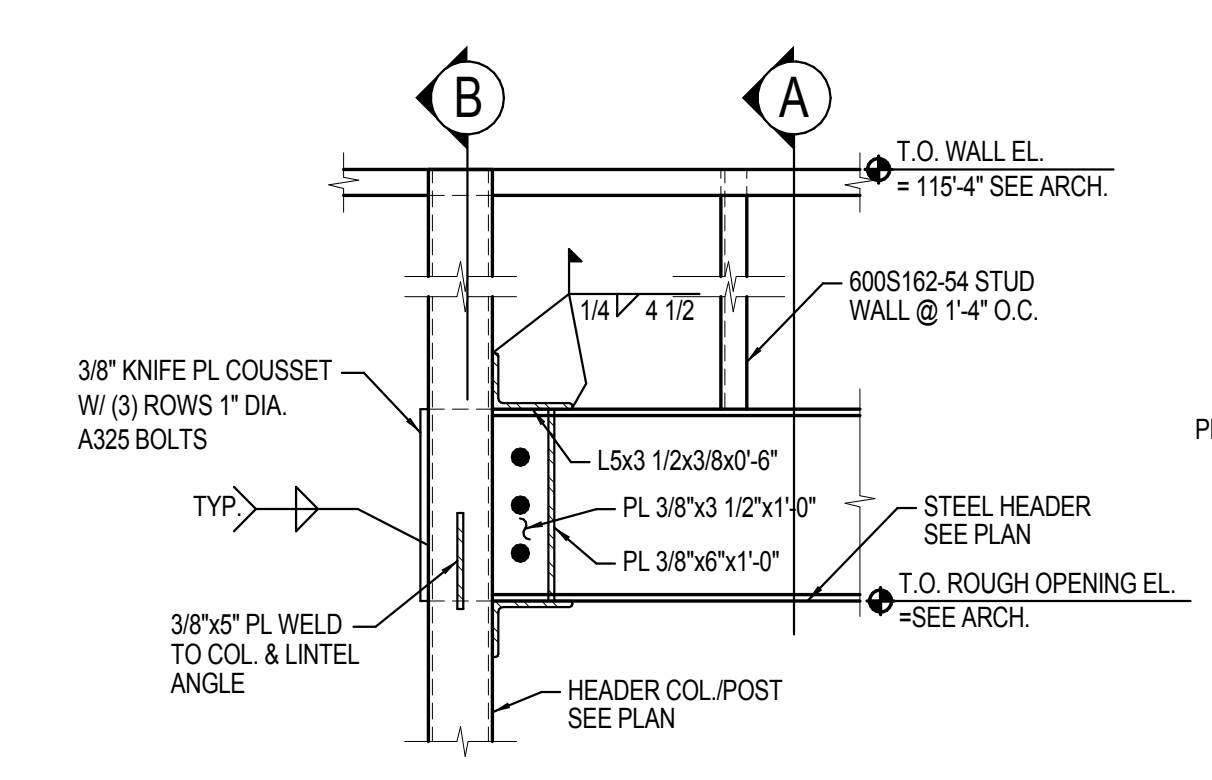




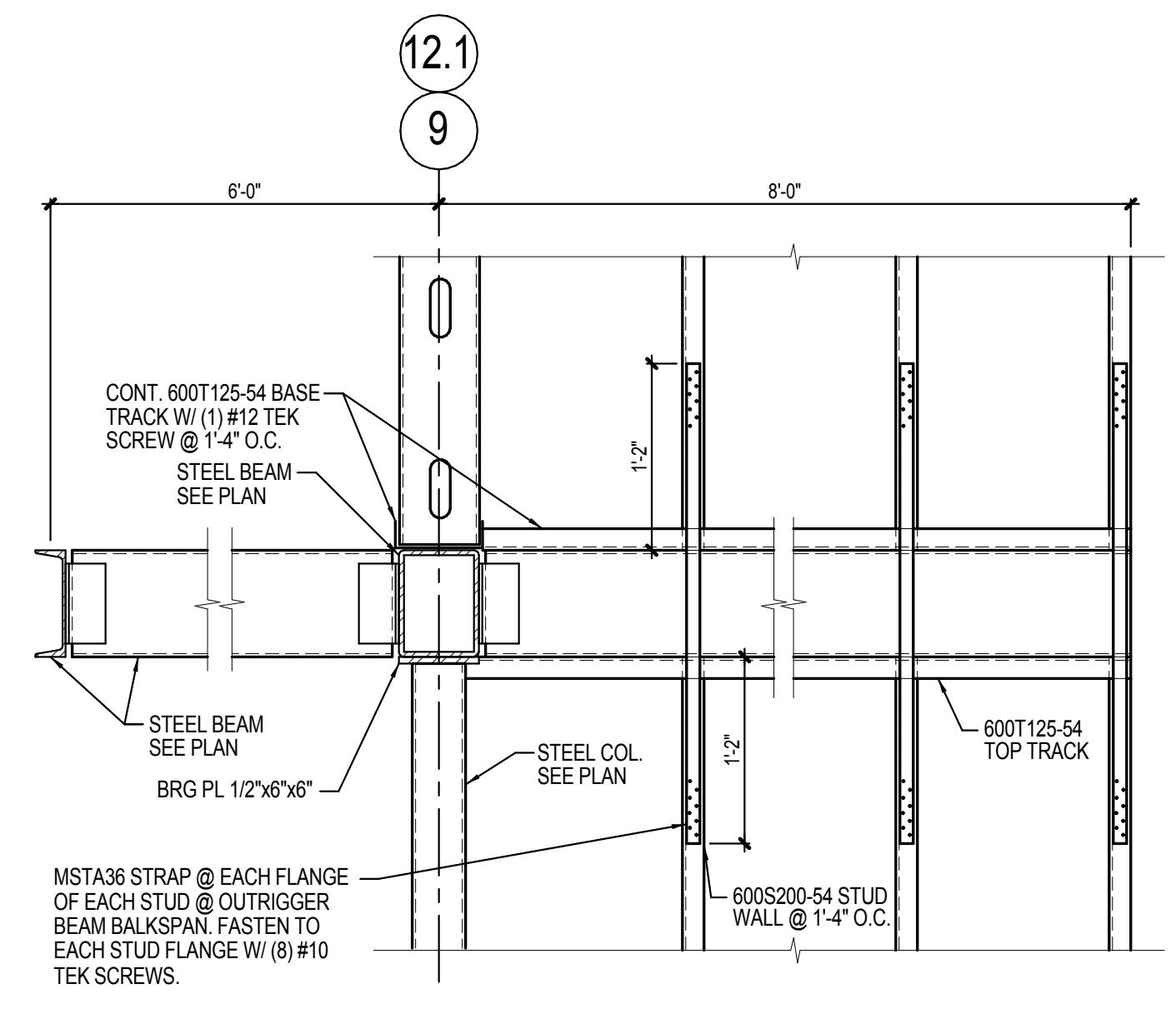
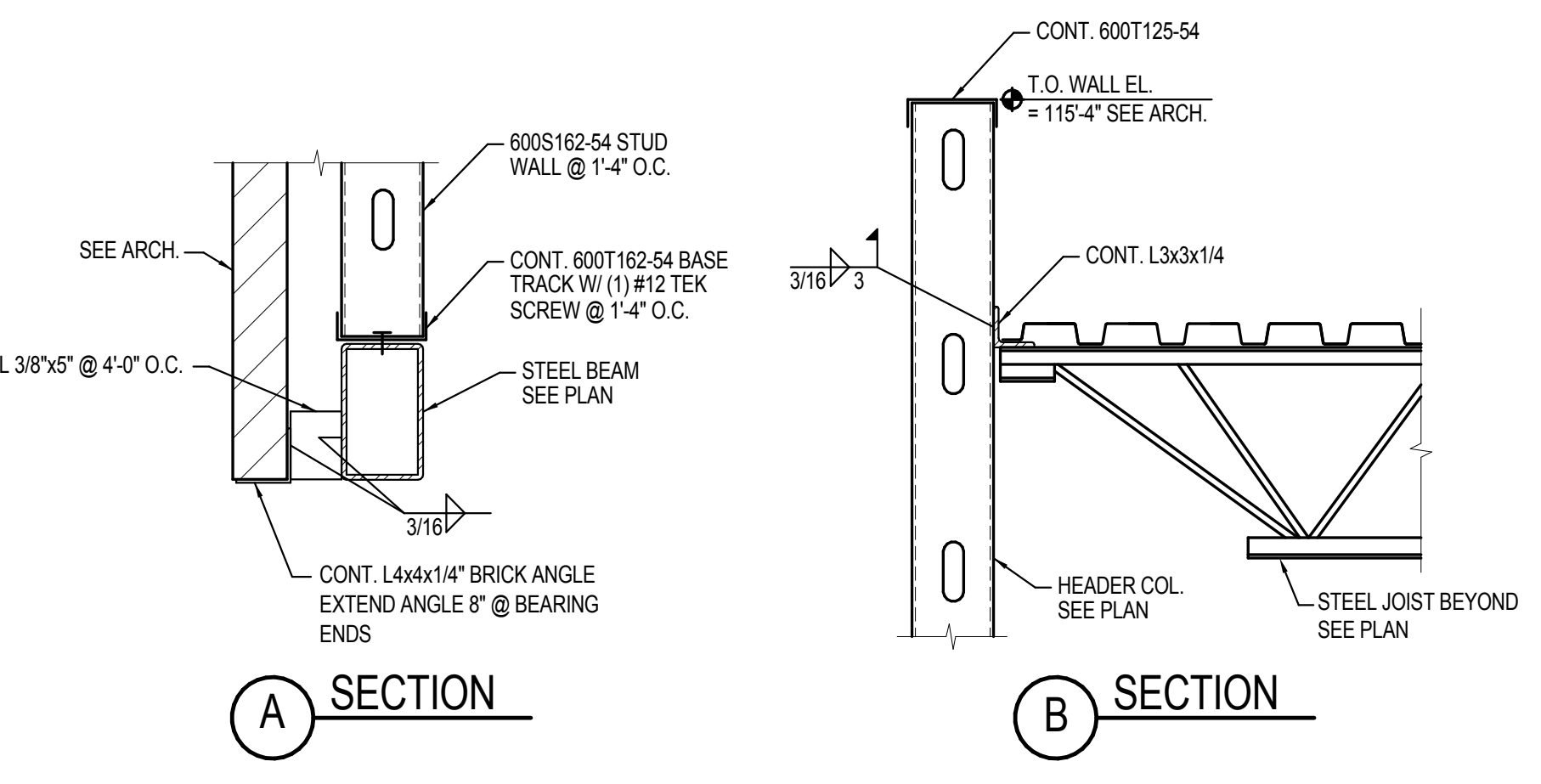


# OF ROWS	PL THICKNESS (WELD SIZE) (A36)			
	1/4" (3/16")	5/16" (1/4")	3/8" (5/16")	7/16" (3/8")
2	14	14	14	14
3	25	28	28	28
4	—	42	46	46
5	—	—	63	64
6	—	—	75	82
7	—	—	88	100

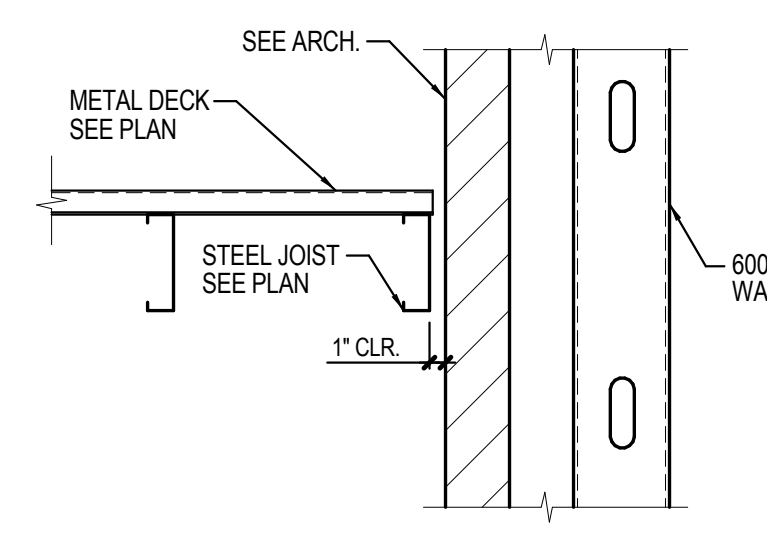
3 CONNECTION DETAIL
S4.3 1" = 1'-0"



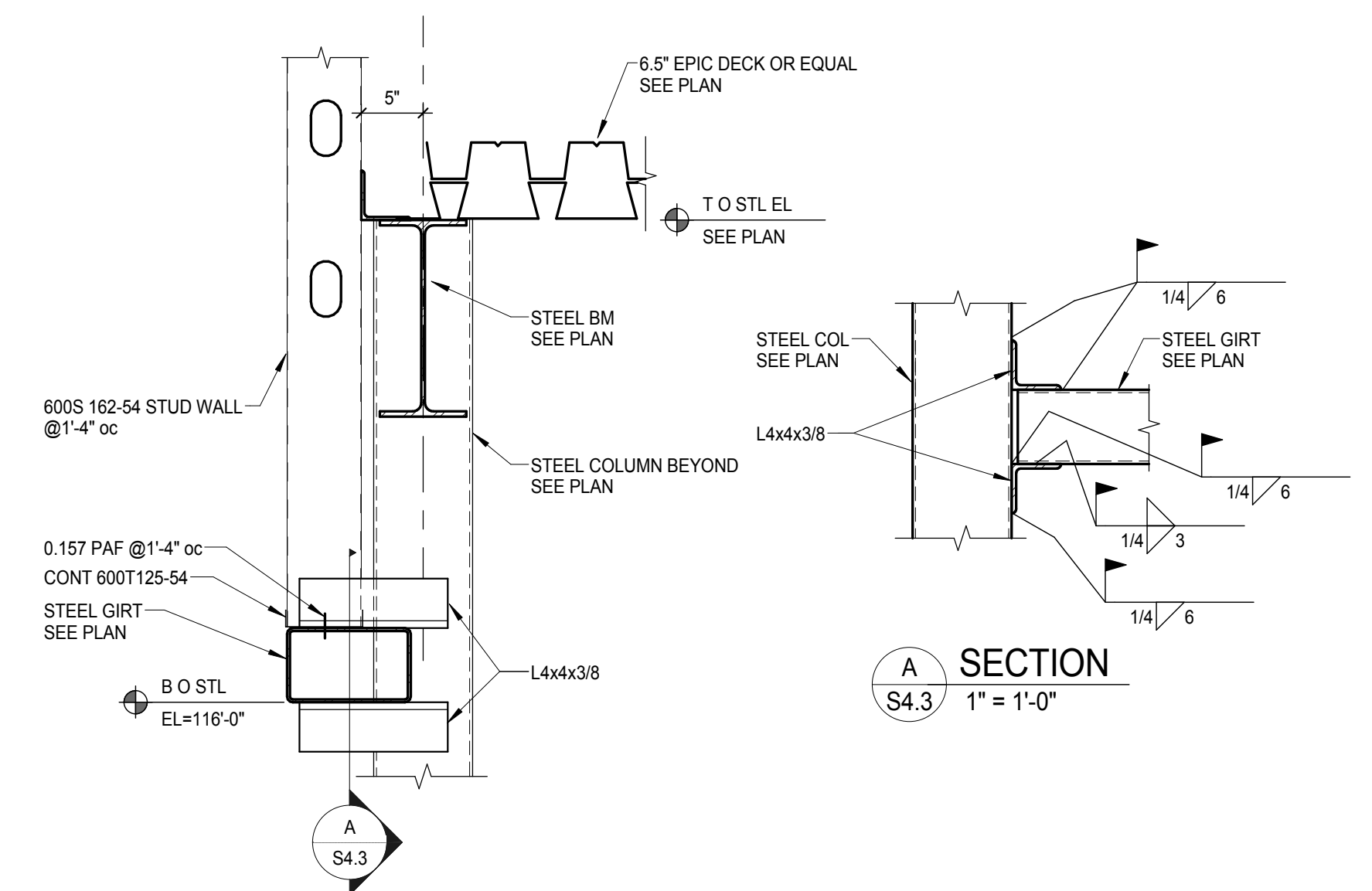
5 HEADER/COLUMN DETAIL
S4.3 1" = 1'-0"



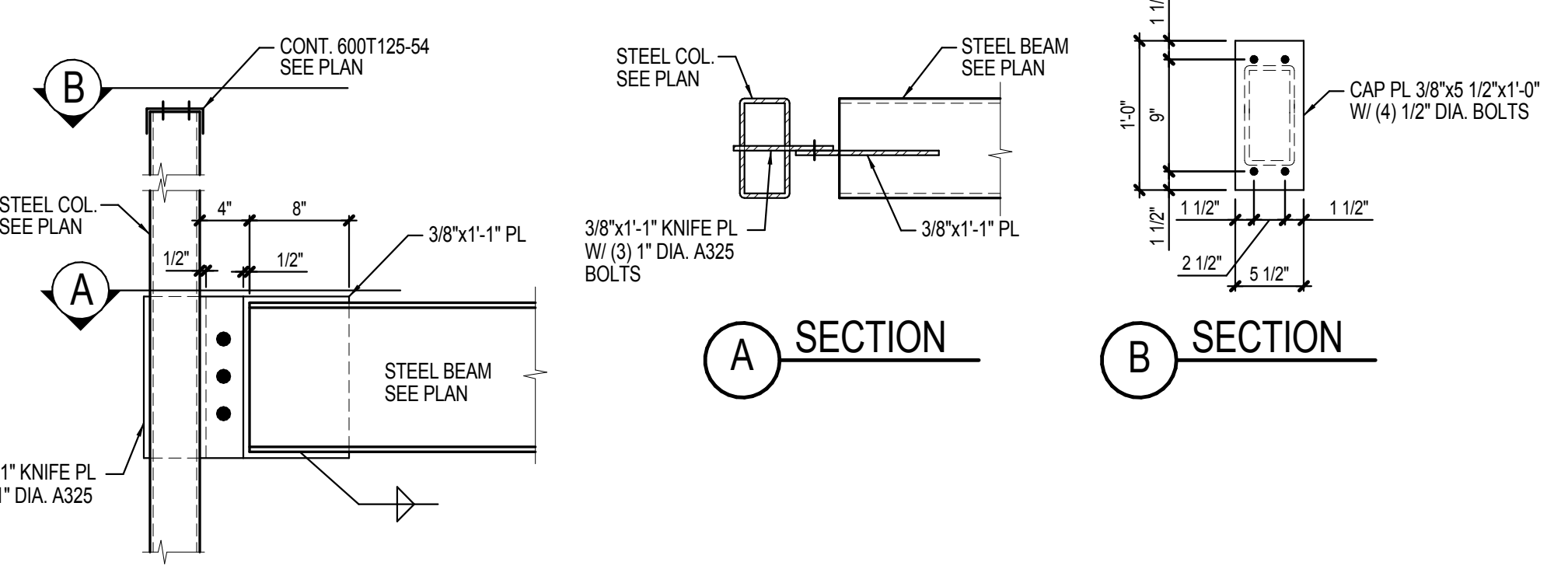
7 CANOPY BEAM DETAIL
S4.3 1" = 1'-0"



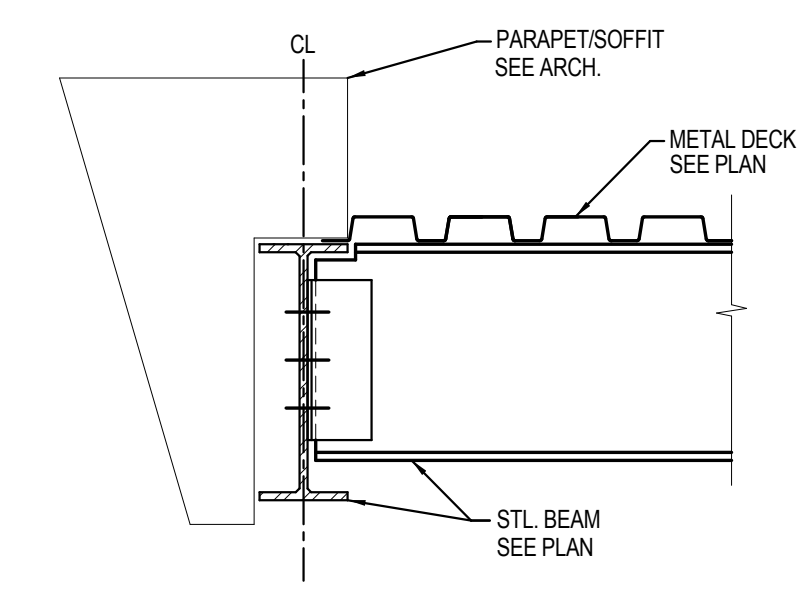
8 DECK EDGE DETAIL
S4.3 1" = 1'-0"



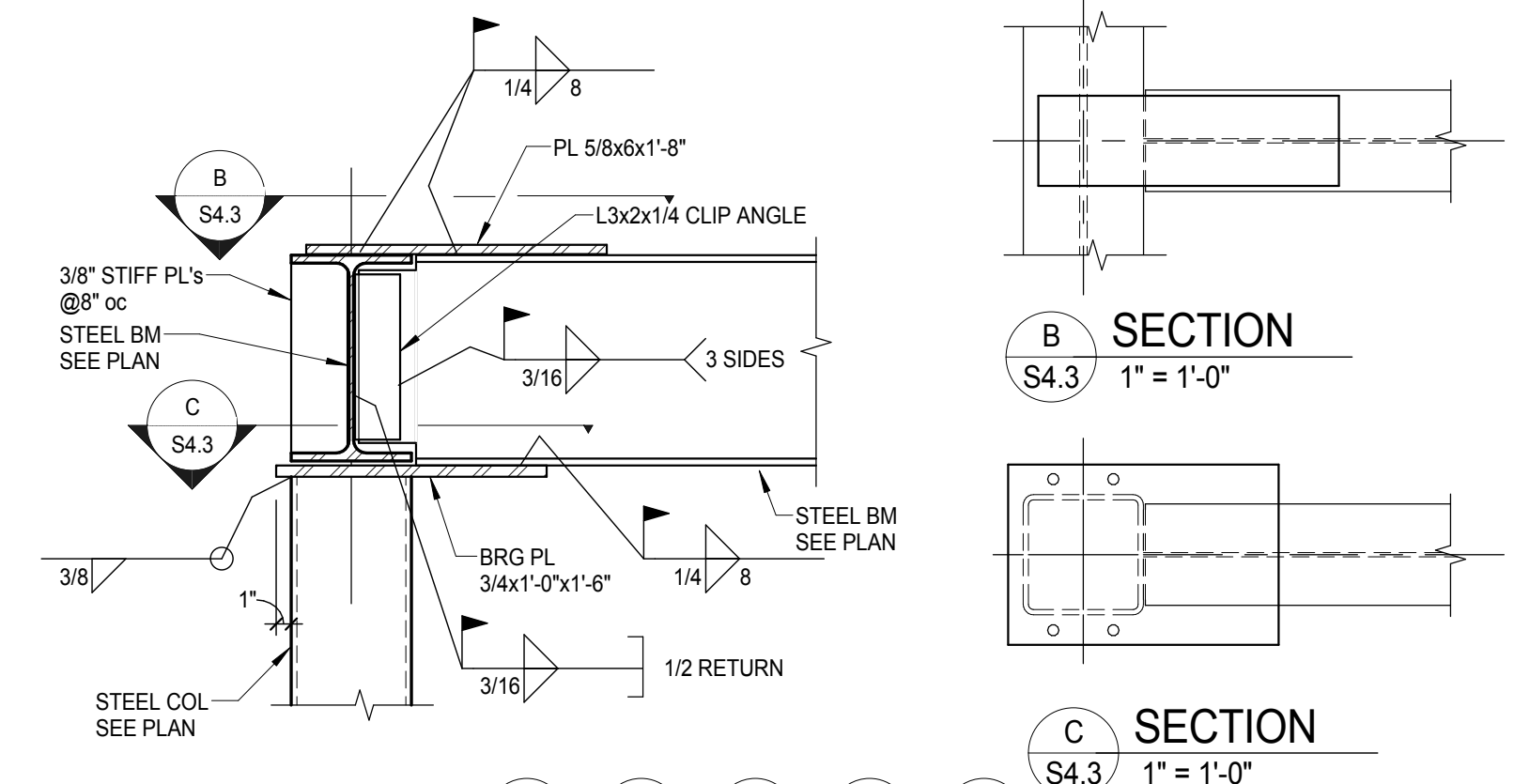
9 CONNECTION DETAIL
S4.3 1" = 1'-0"



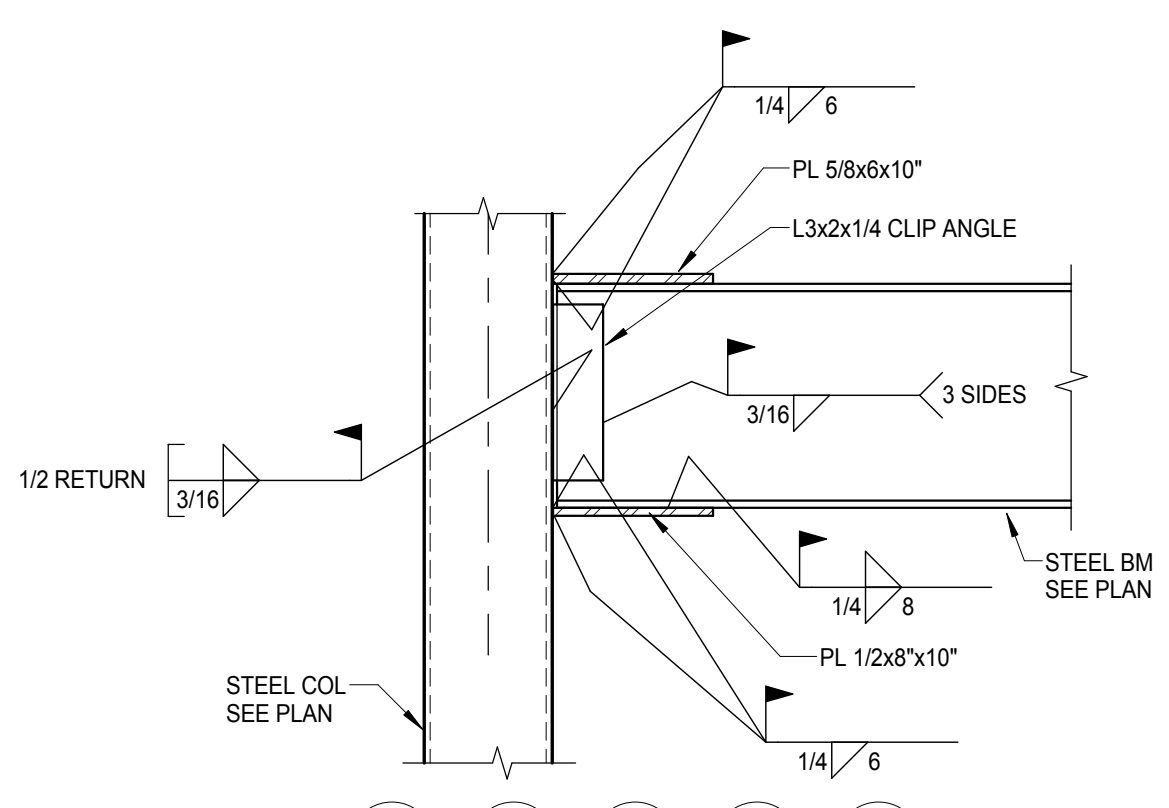
6 STEEL HEADER DETAIL
S4.3 1" = 1'-0"



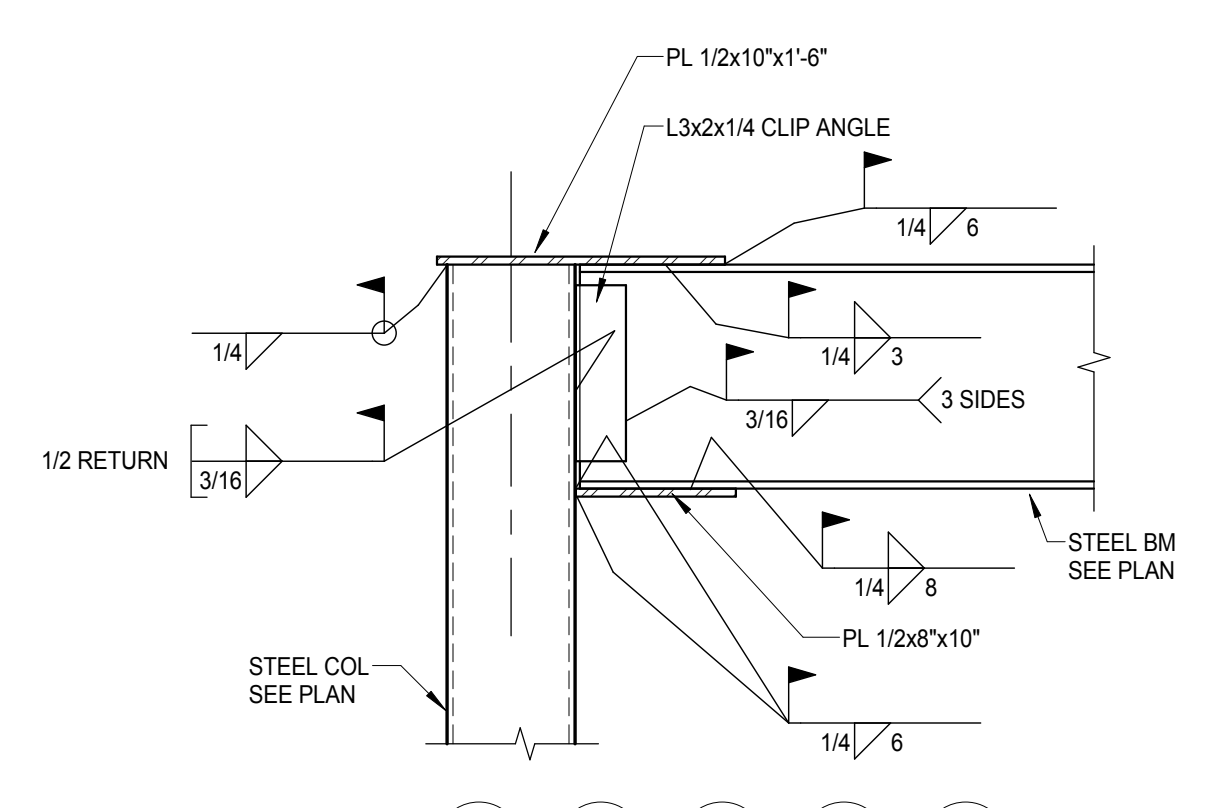
10 DECK BRG. DETAIL
S4.3 1" = 1'-0"



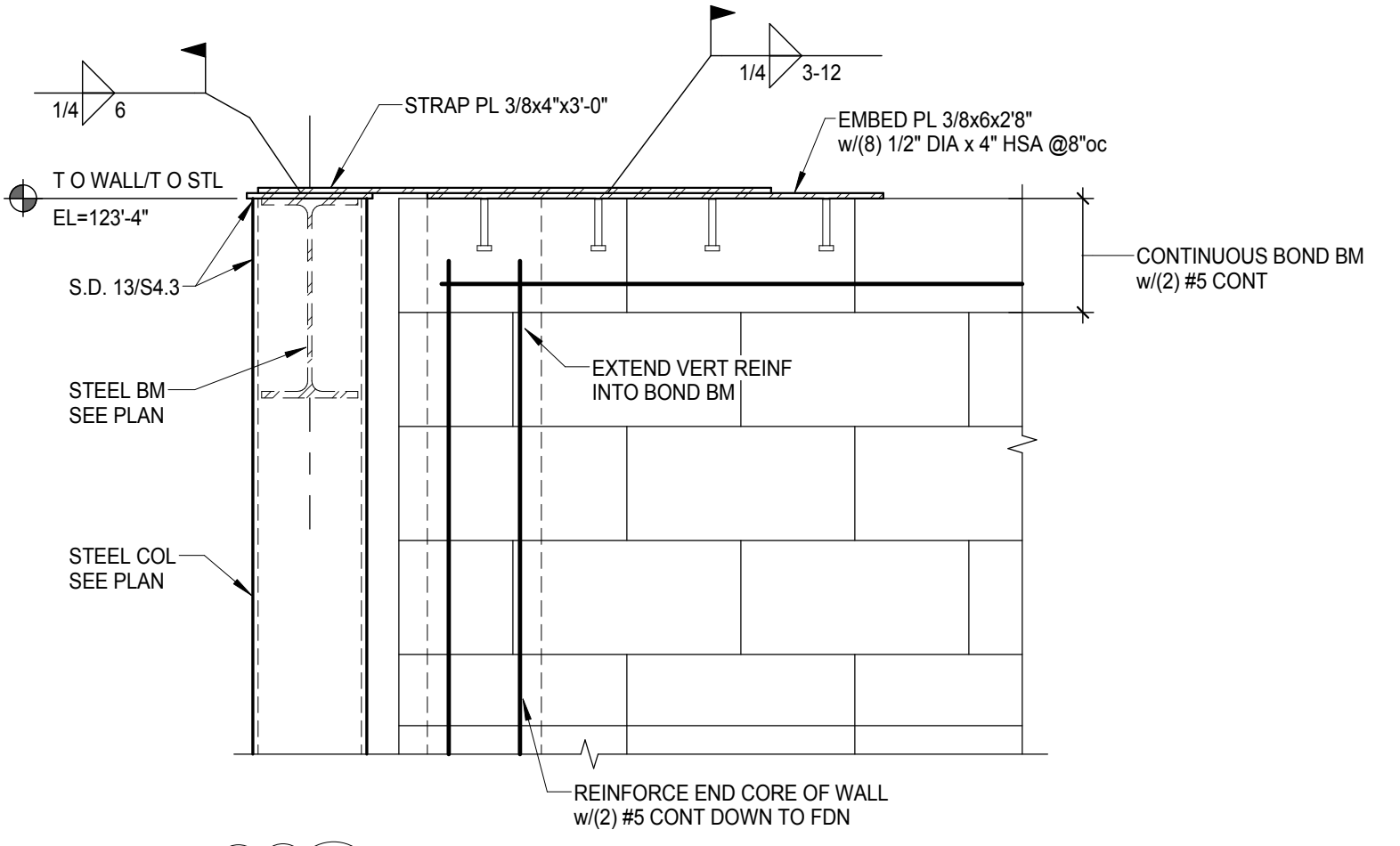
11 MOMENT CONN DETAIL
S4.3 1" = 1'-0"



12 MOMENT CONN DETAIL
S4.3 1" = 1'-0"



13 MOMENT CONN DETAIL
S4.3 1" = 1'-0"



14 COLUMN CONN DETAIL @ CMU WALL
S4.3 1" = 1'-0"

04/14/2016 ADDENDUM #1

BID GROUP 1

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 Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: [Signature]
Date: 04/14/2016 Registration No. 41855

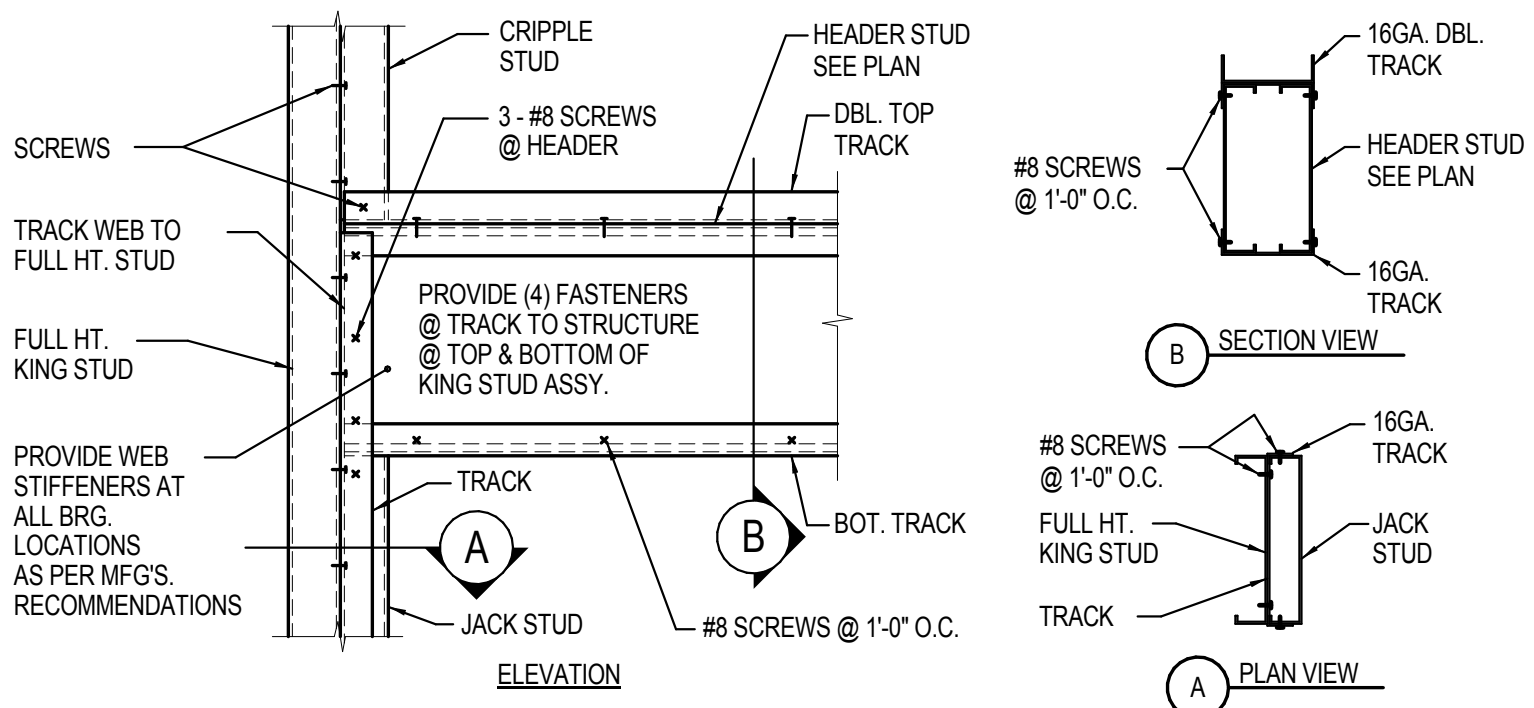


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SCHOOL
4400 24th Avenue S
Moorhead, MN 56500

FRAMING DETAILS

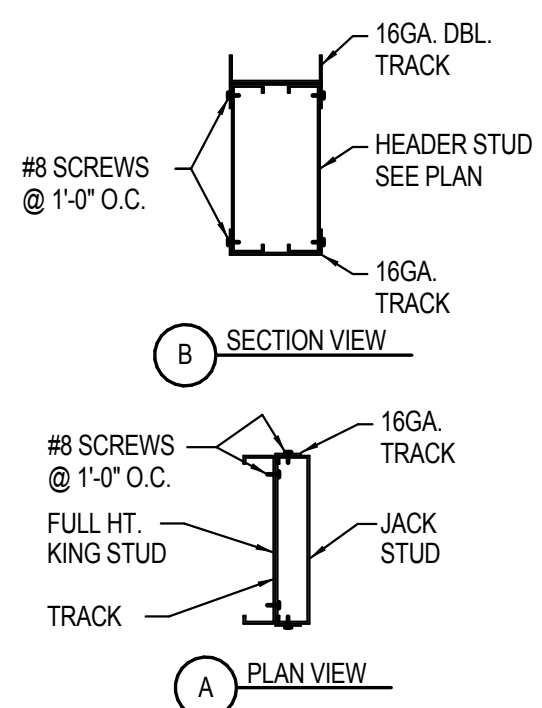
Project No.: 15-032
Date: 04/14/2016

S4.3

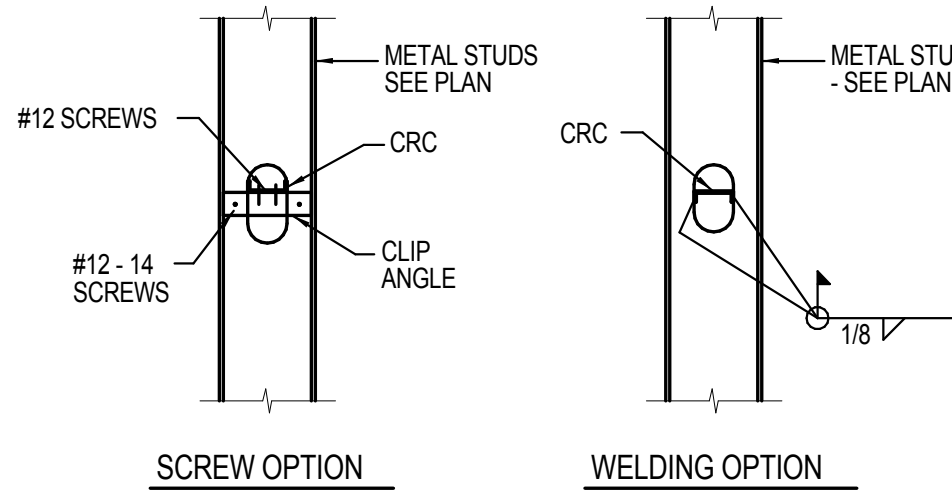


- NOTES:
- SEE ARCH. DWGS. FOR HEADER LOCATIONS.
 - TRACK, CRIPPLE STUDS, JACK STUDS & KING STUDS TO BE SAME SIZE & GAGE AS WALL FRAMING (U.O.N.)

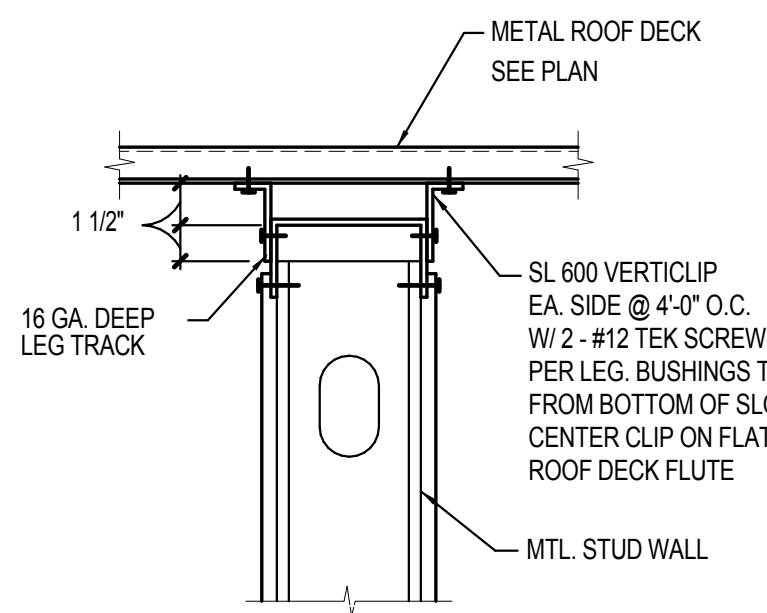
1 TYP STEEL STUD HEADER DETAIL
S4.4 1" = 1'-0"



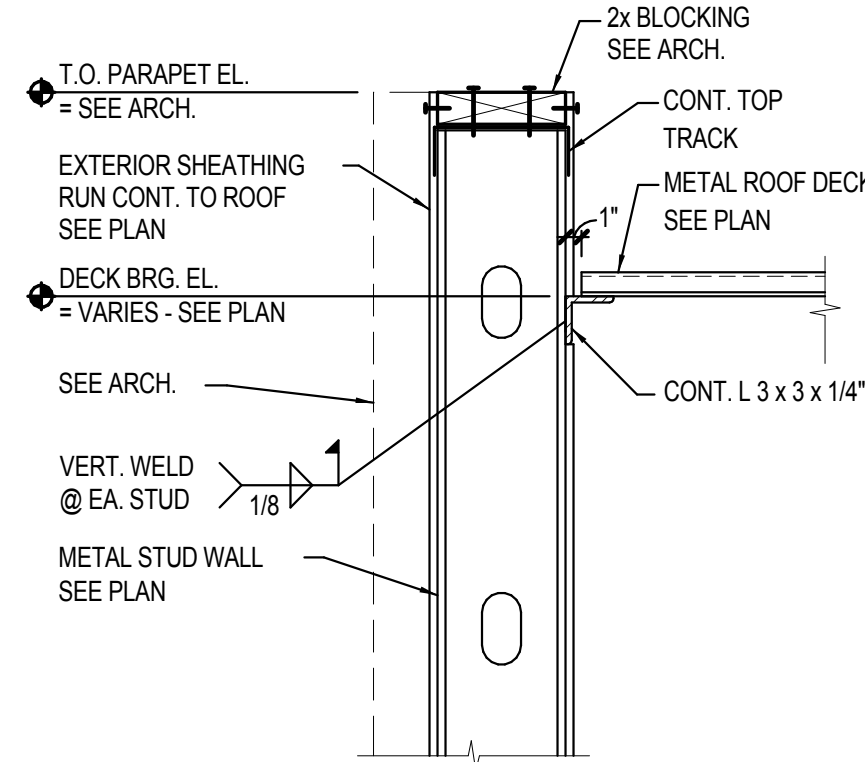
2 TYP BRIDGING DETAIL
S4.4 NO SCALE



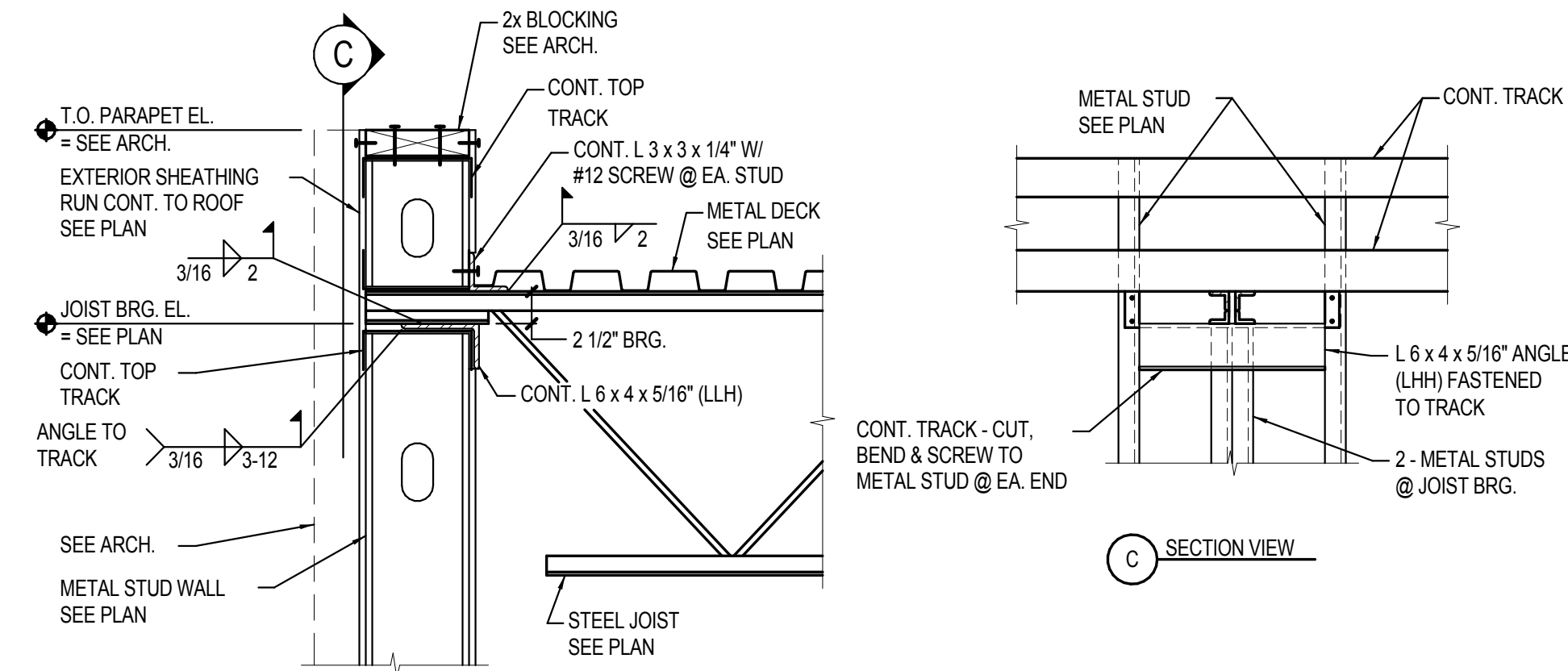
3 SLIP CONN @ MTL STUD WALL
S4.4 1 1/2" = 1'-0"



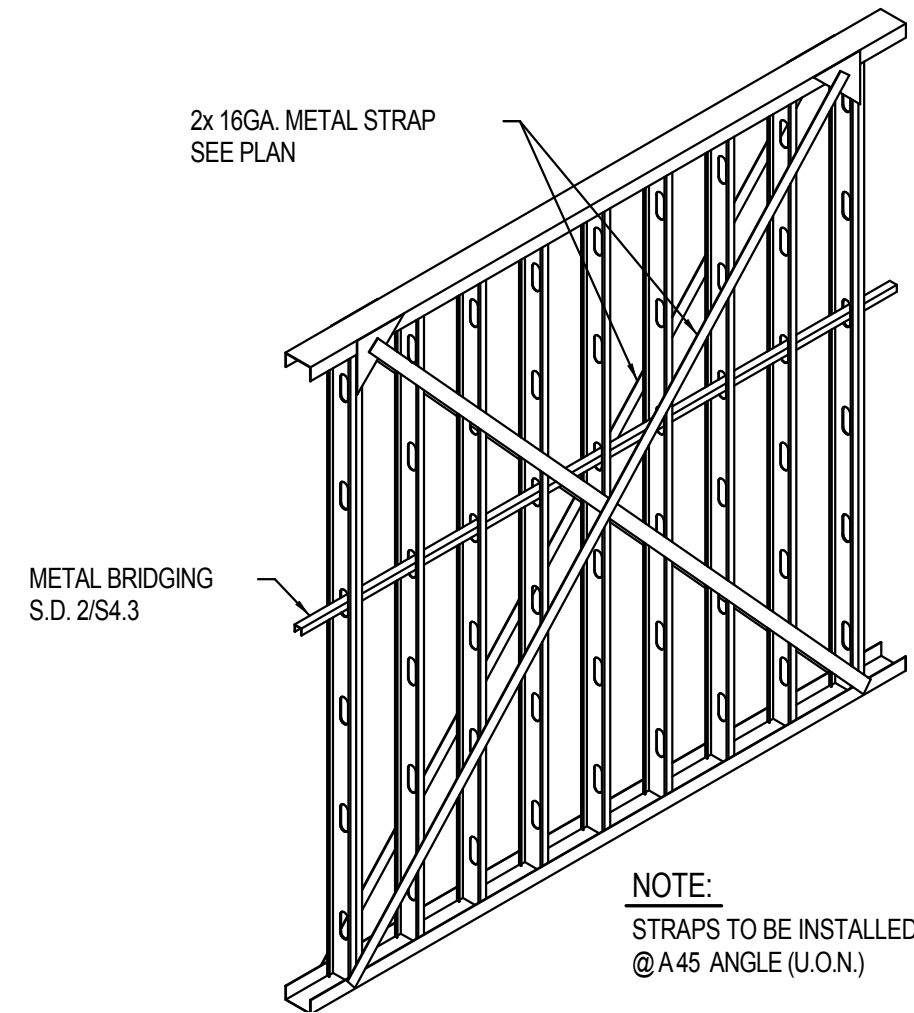
4 TYP DECK BRG DETAIL
S4.4 1" = 1'-0"



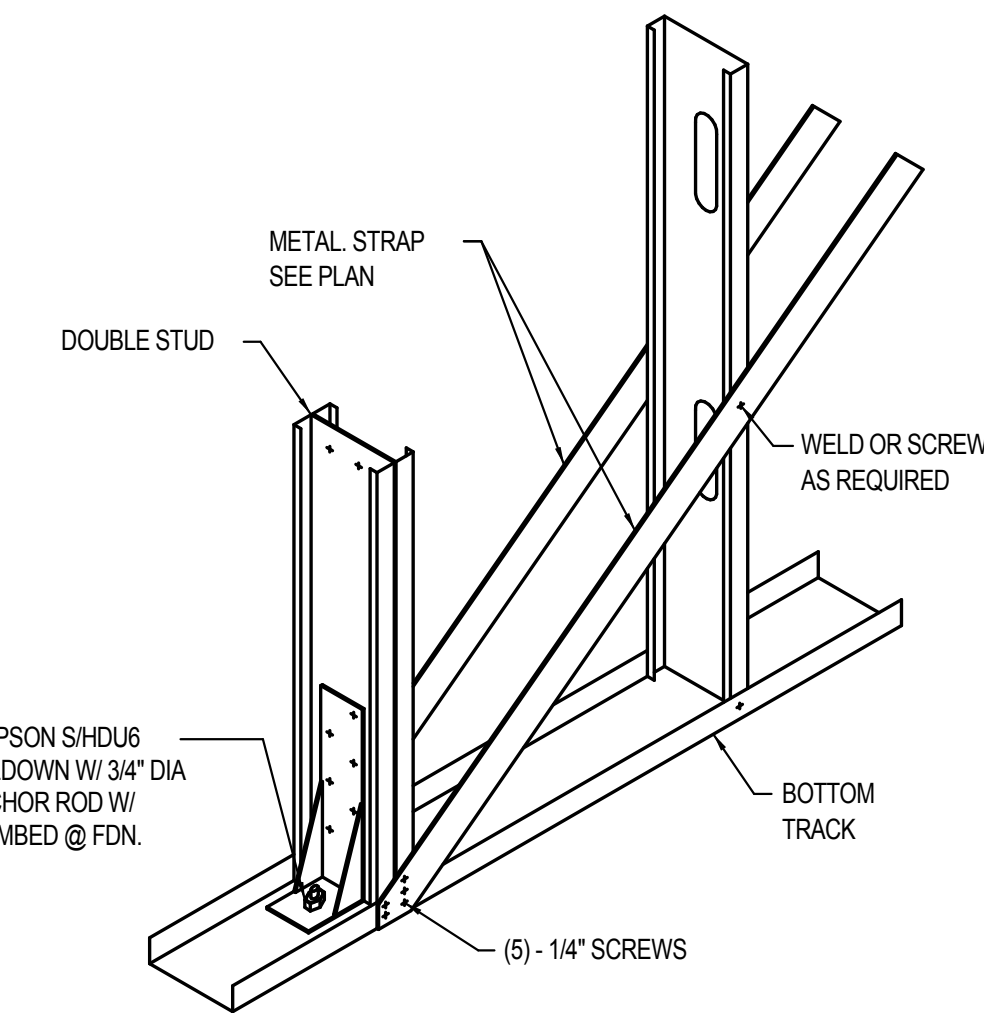
5 JOIST BRG DETAIL
S4.4 1" = 1'-0"



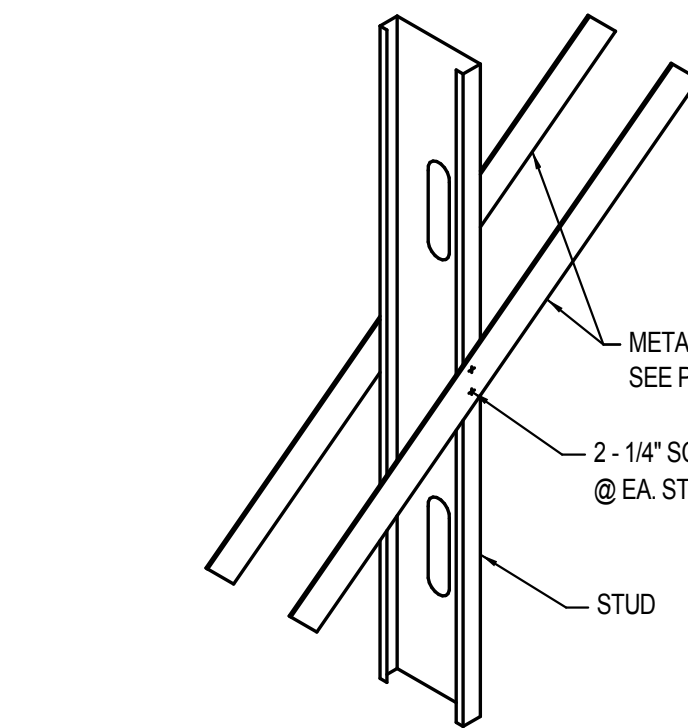
7 TYP SHEAR WALL STRAP DETAIL
S4.4 NO SCALE



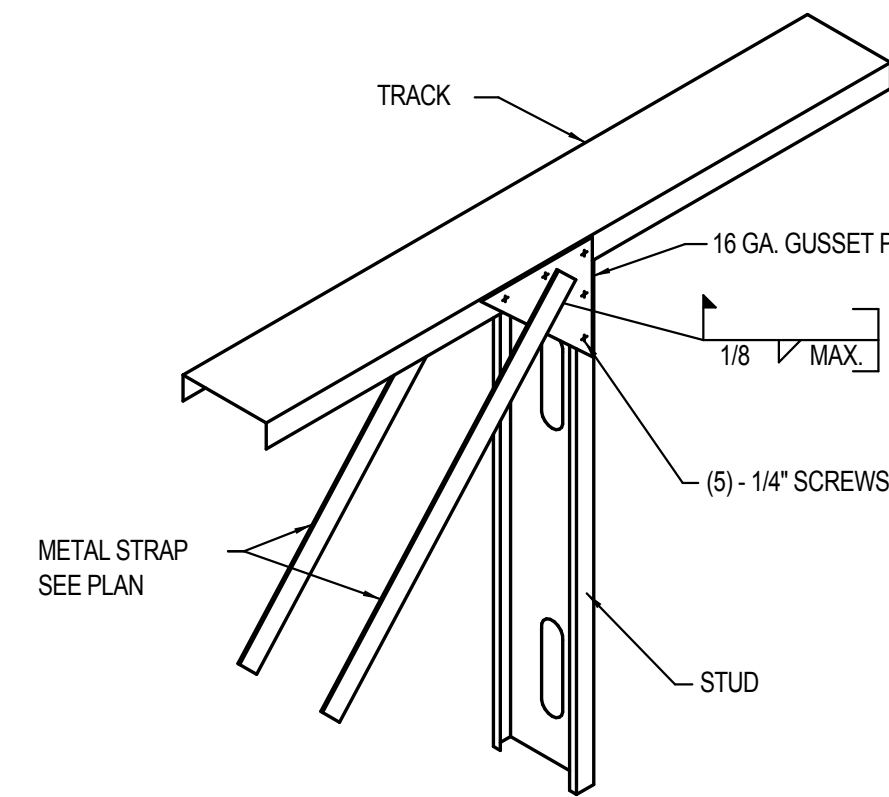
8 SHEAR WALL ANCHORAGE BASE
S4.4 NO SCALE



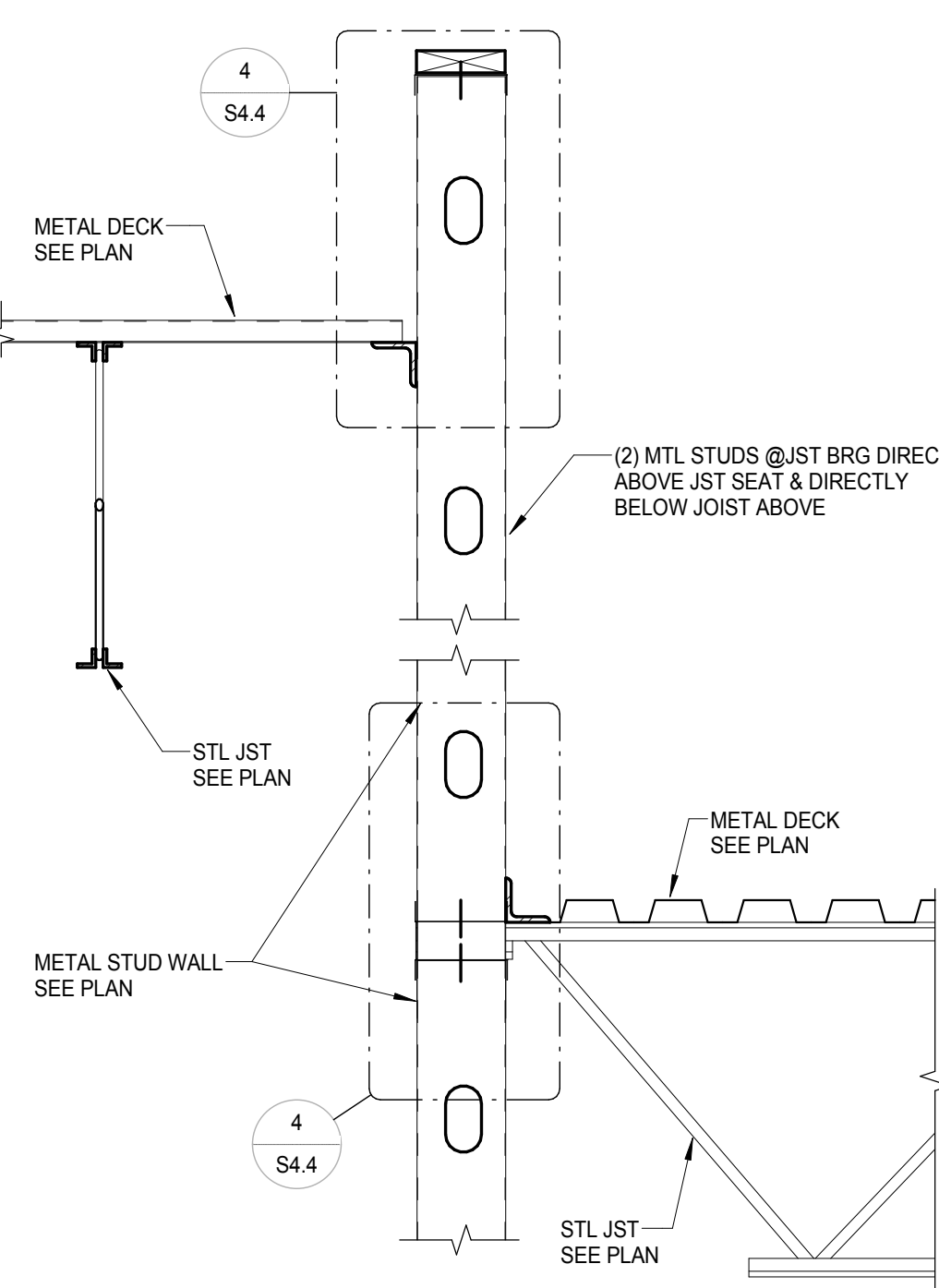
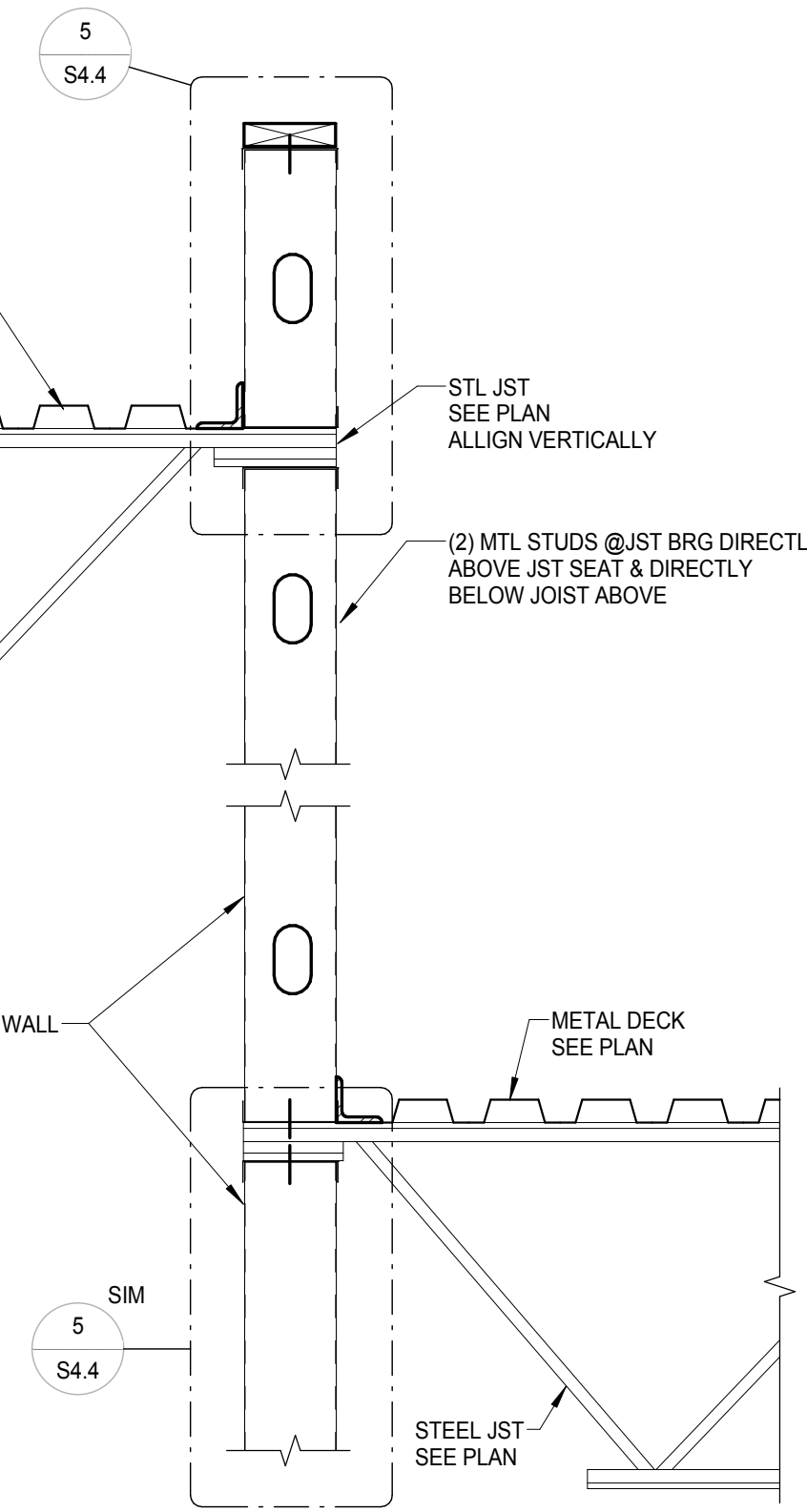
9 SHEAR WALL - INTERMEDIATE
S4.4 NO SCALE



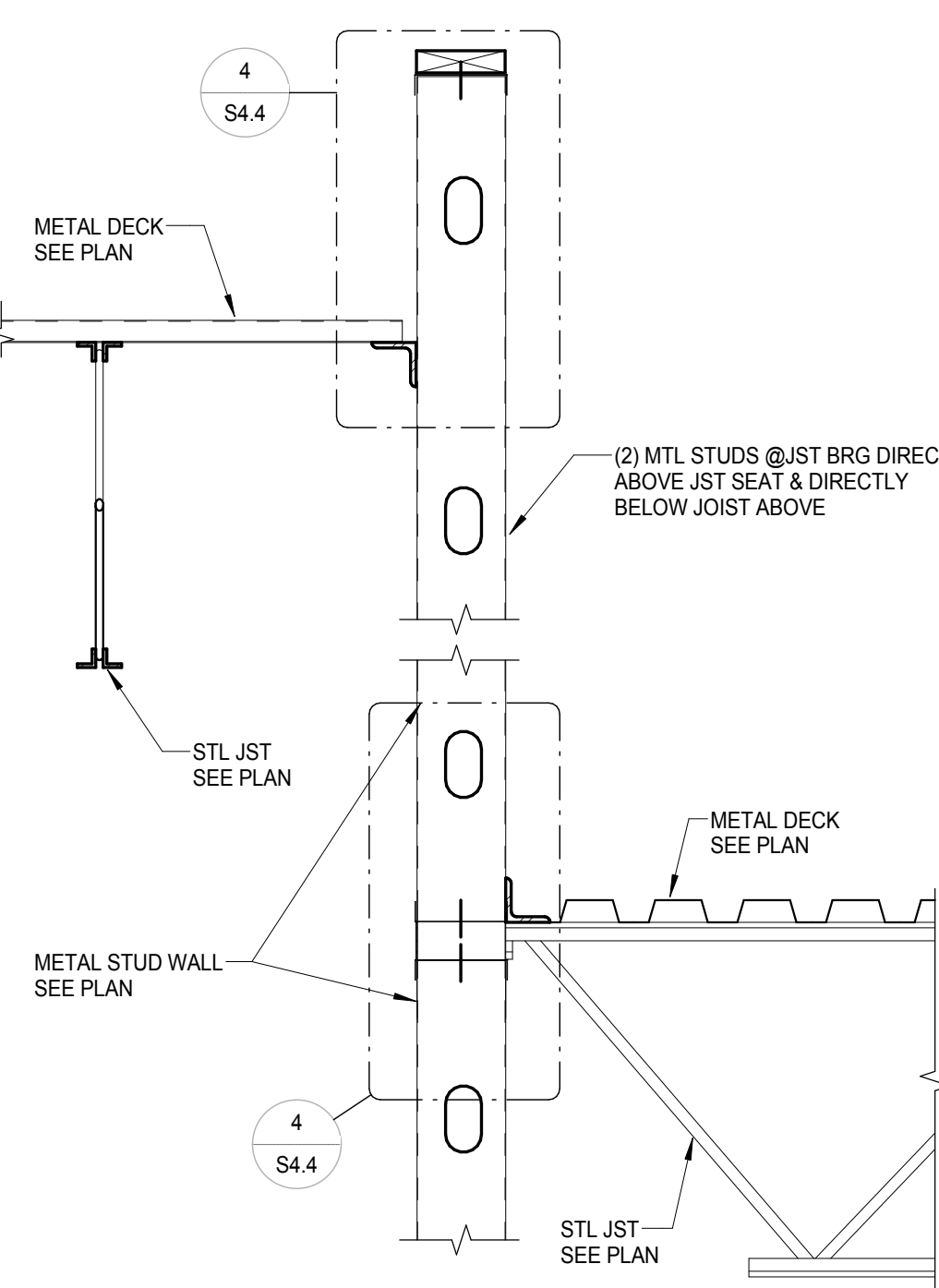
10 SHEAR WALL - TOP CONNECTION
S4.4 NO SCALE



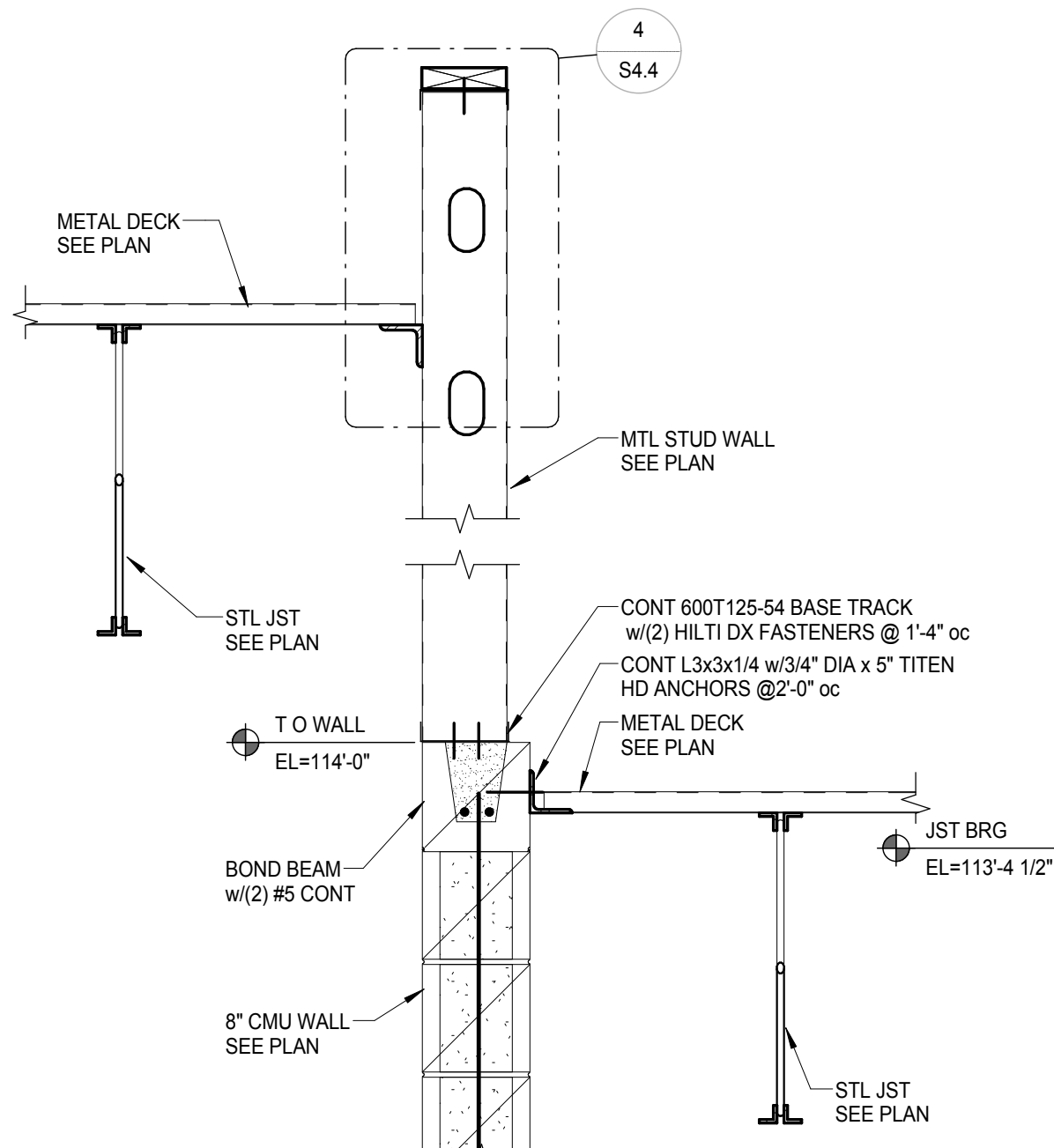
11 JOIST BRG DETAIL
S4.4 NO SCALE



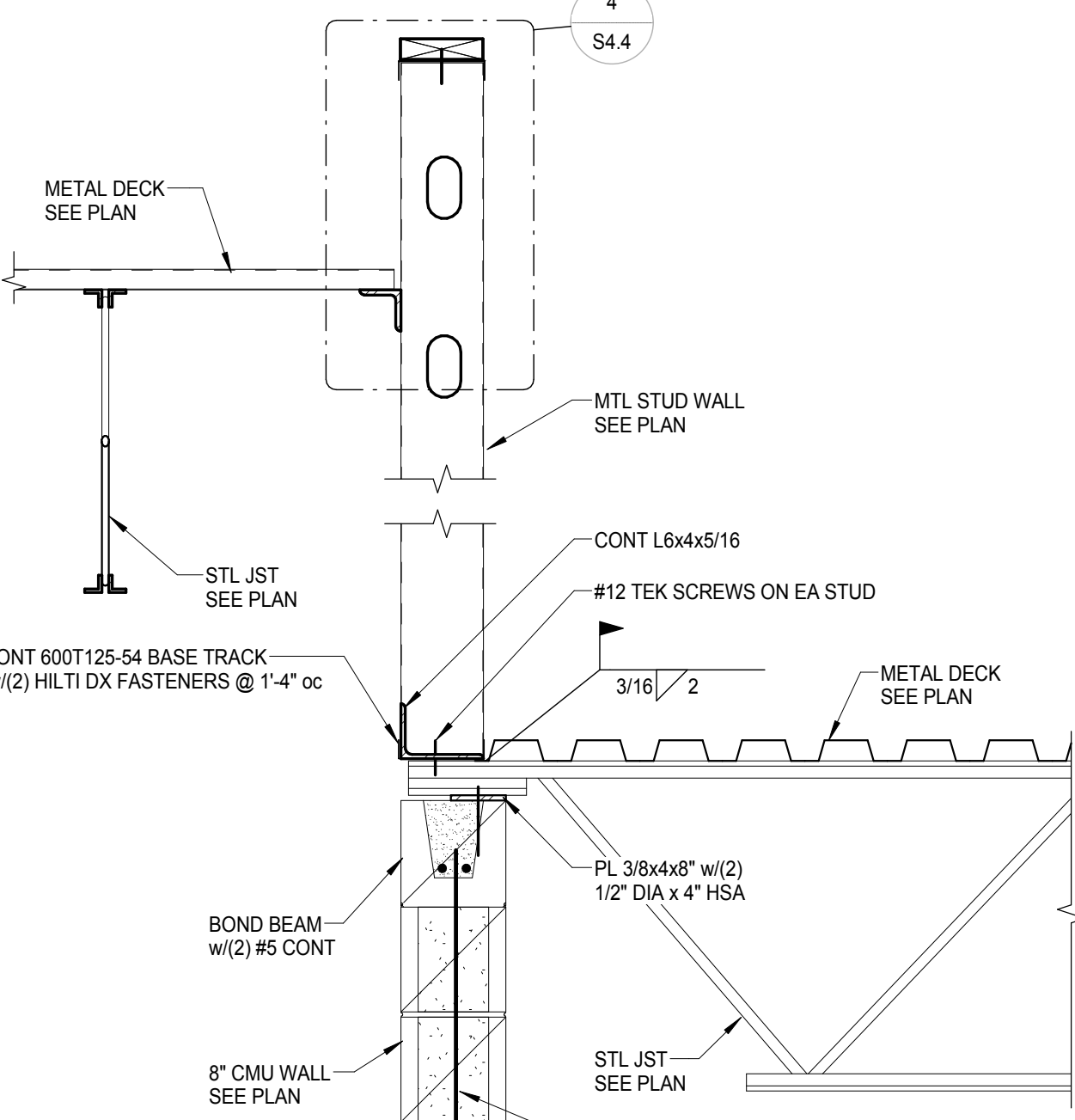
12 JOIST BRG DETAIL
S4.4 NO SCALE



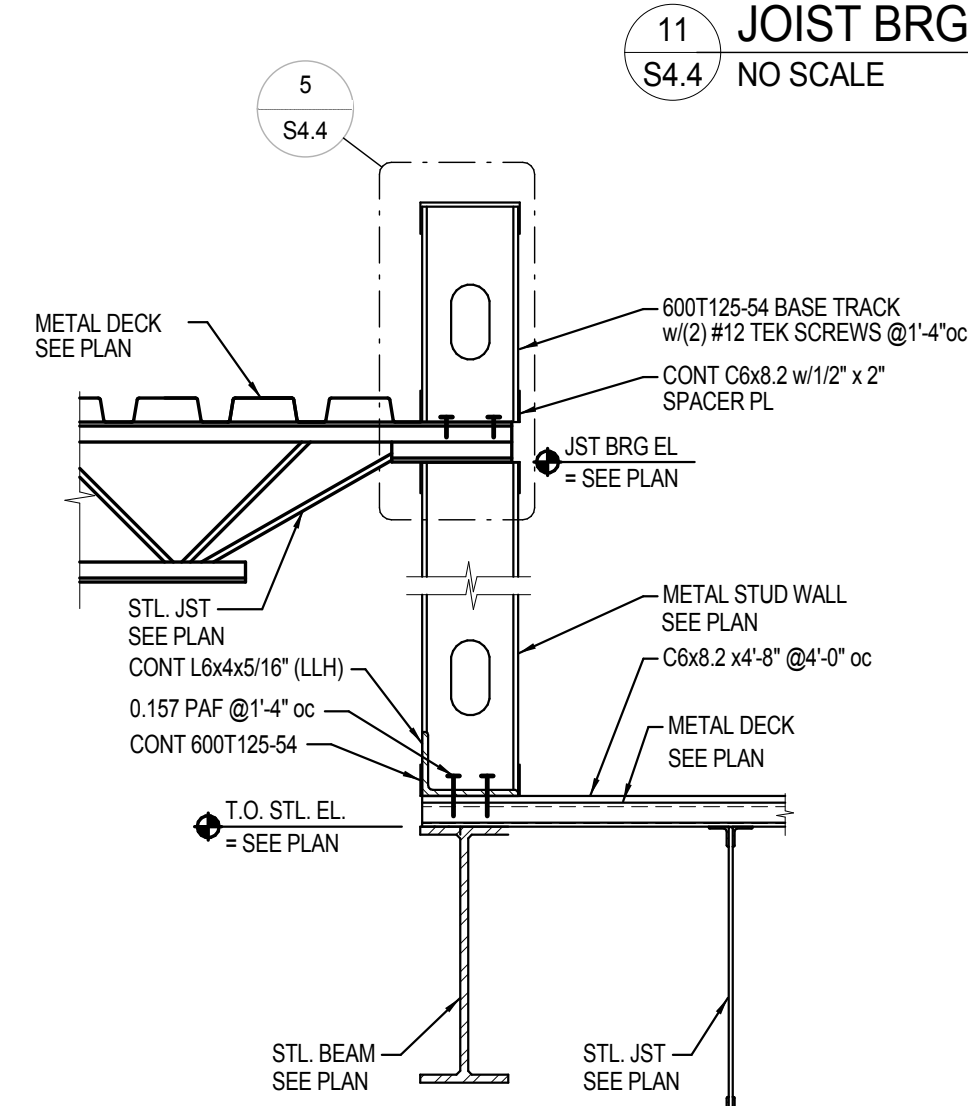
14 DECK BRG DETAIL
S4.4 NO SCALE



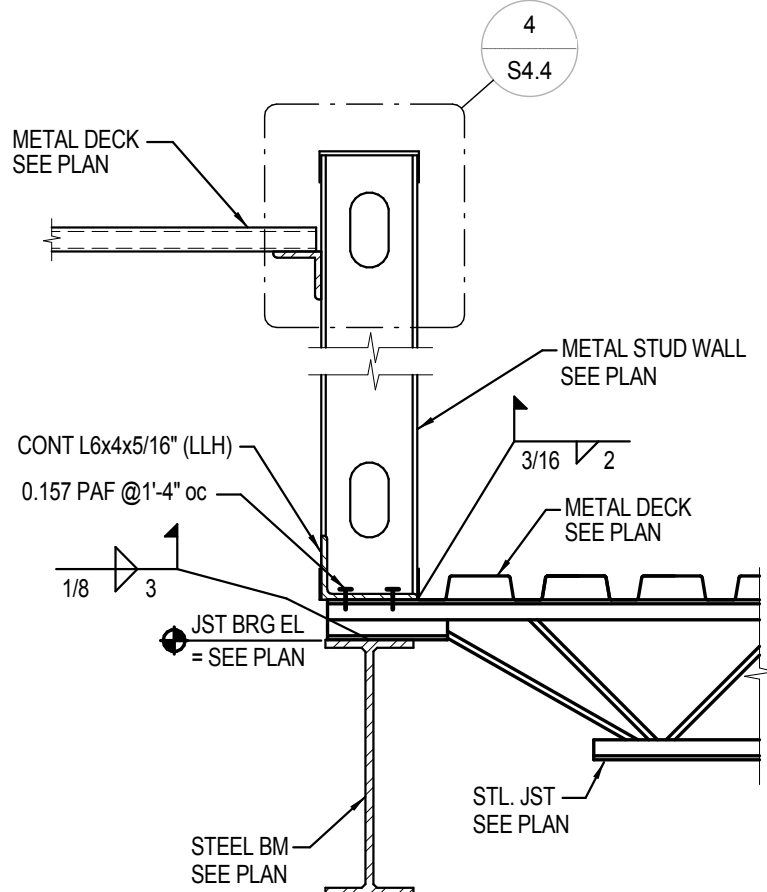
15 JST BRG DETAIL
S4.4 NO SCALE



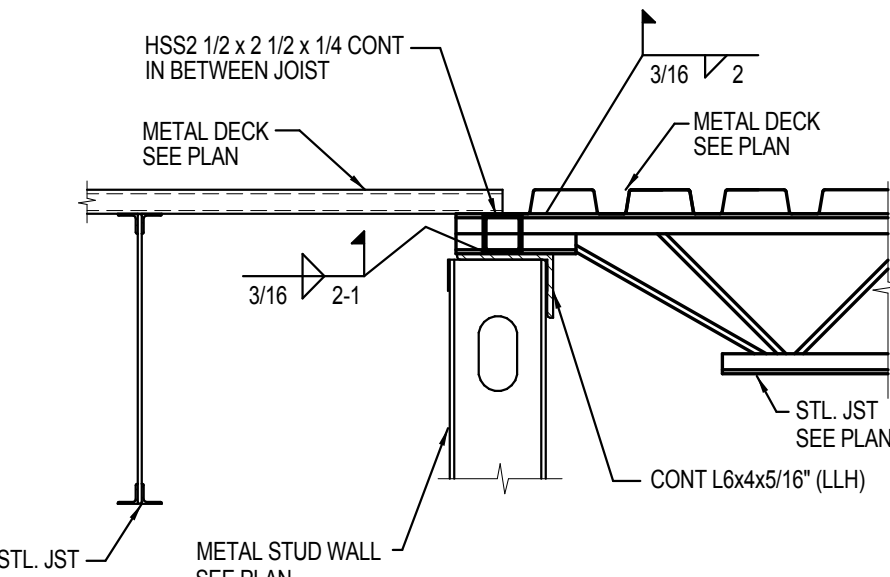
16 DECK BRG DETAIL
S4.4 NO SCALE



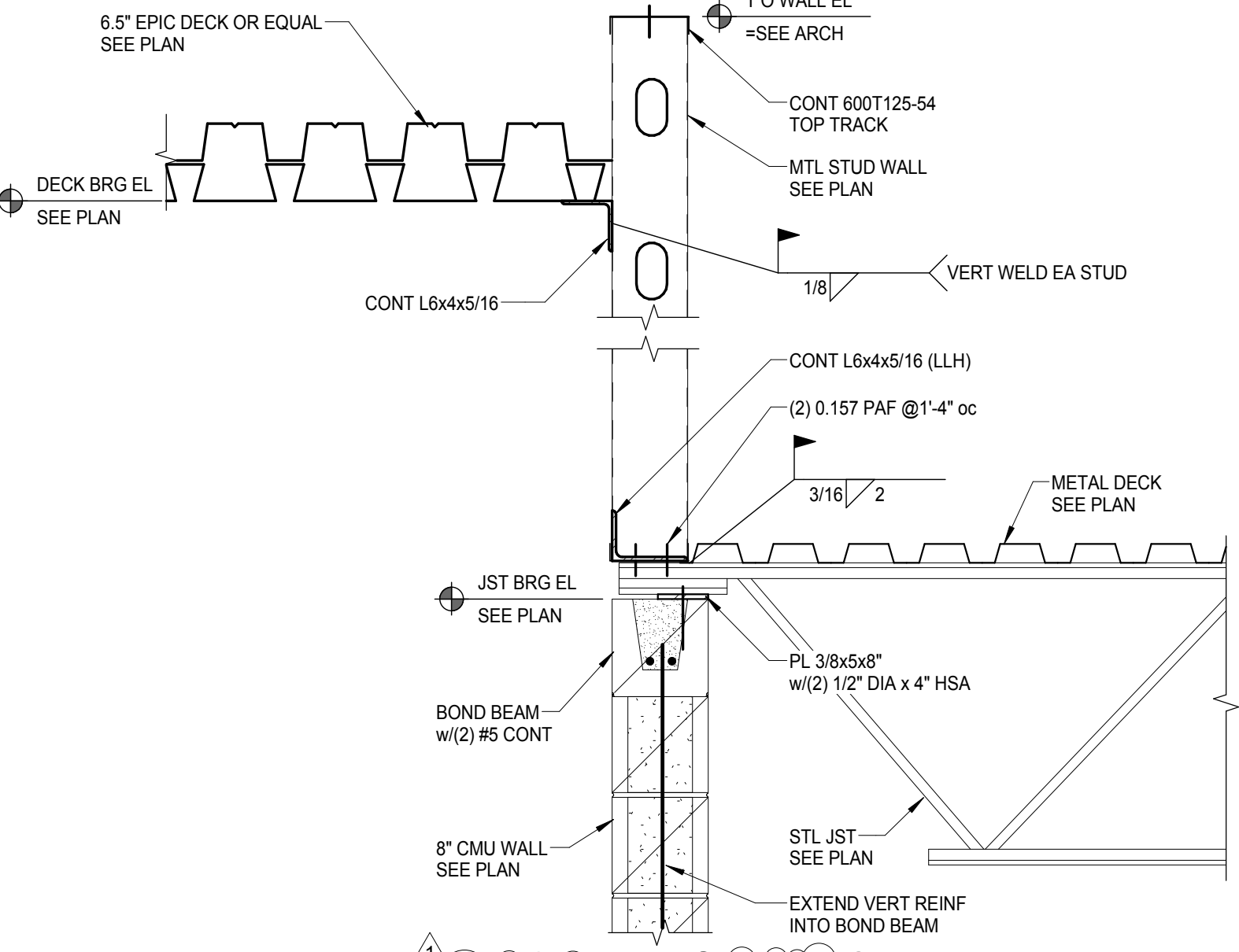
17 JST BRG DETAIL
S4.4 NO SCALE

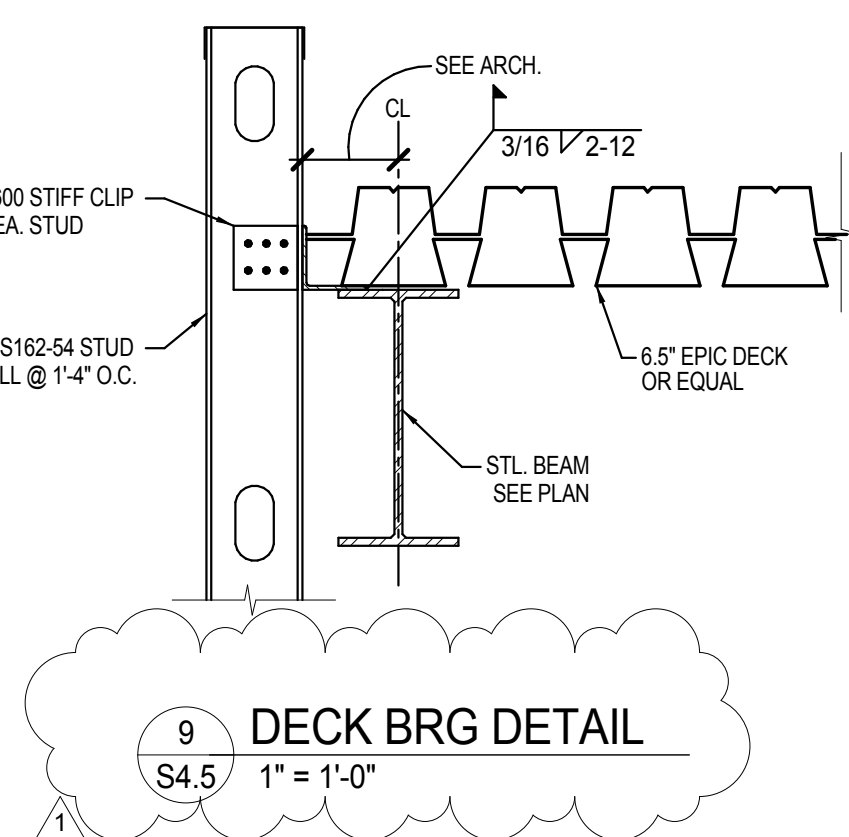
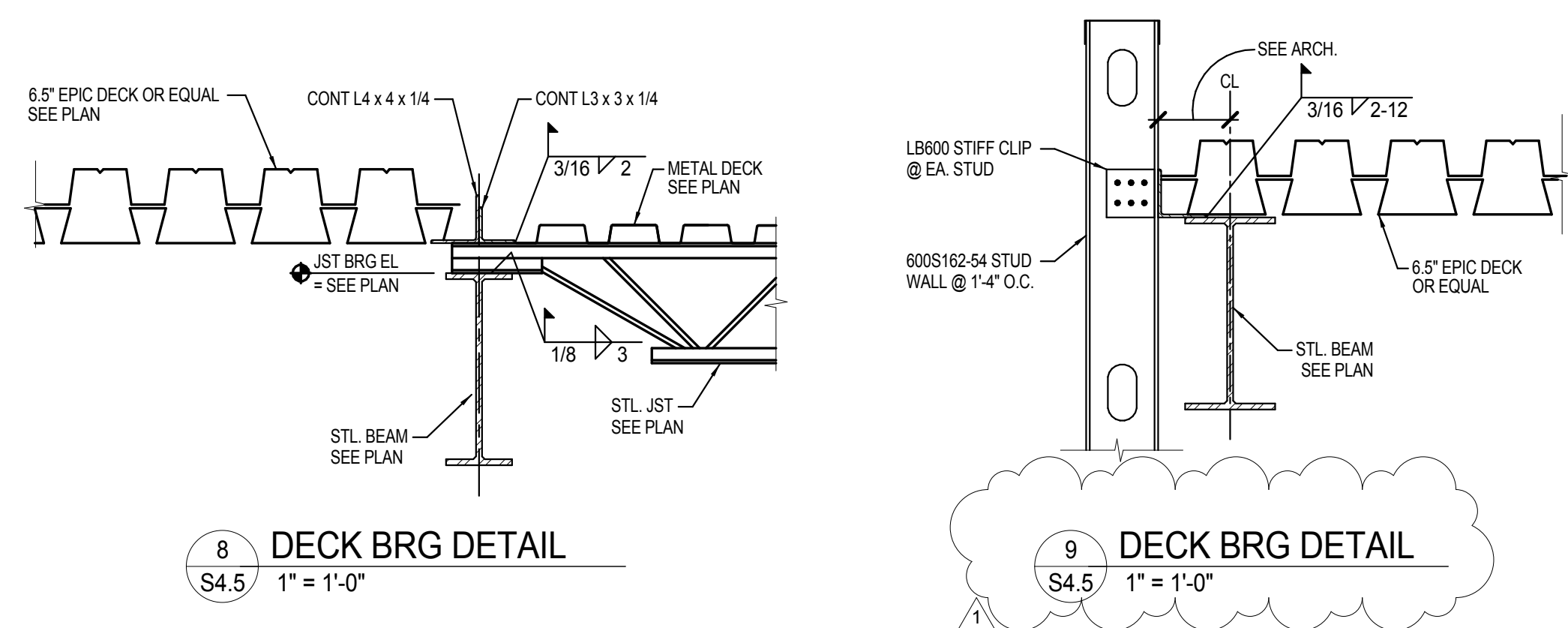
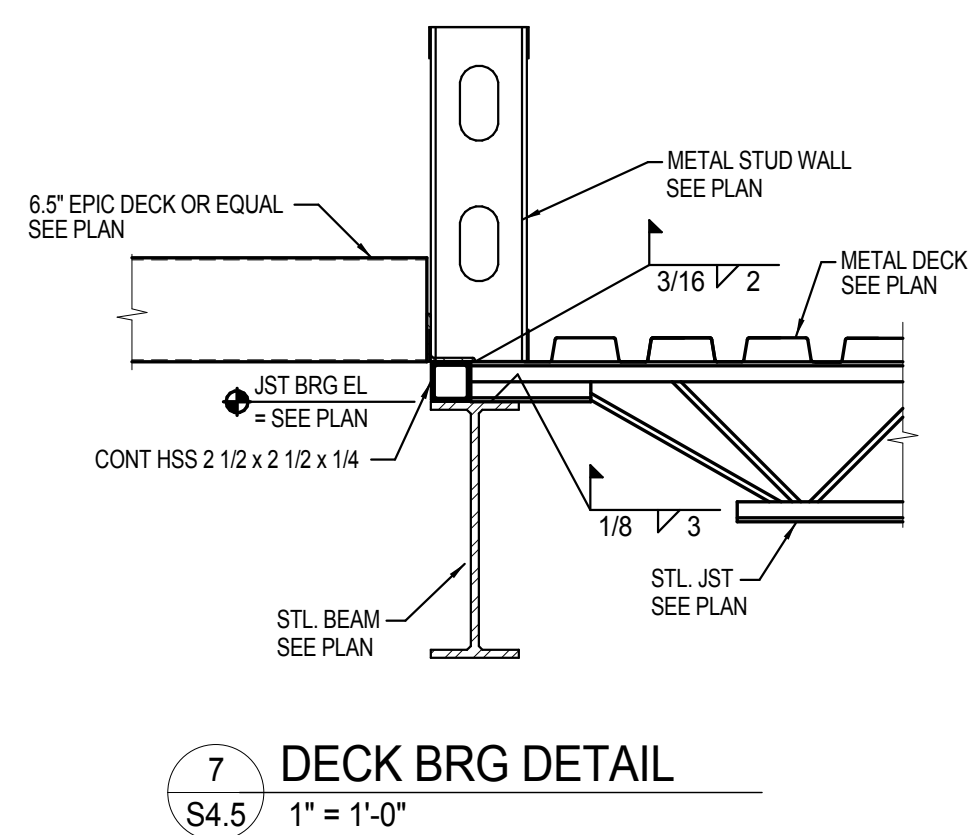
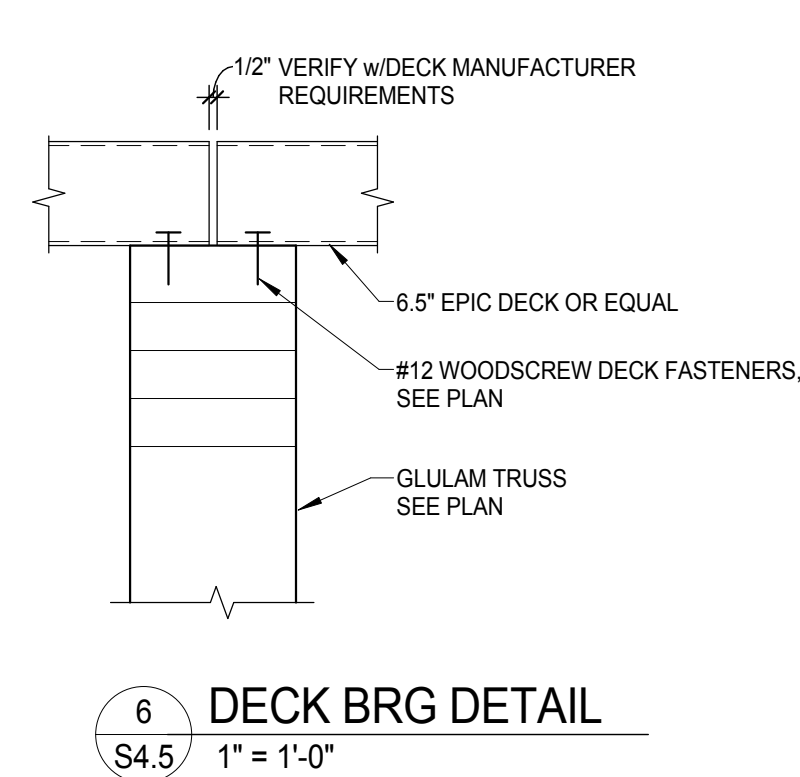
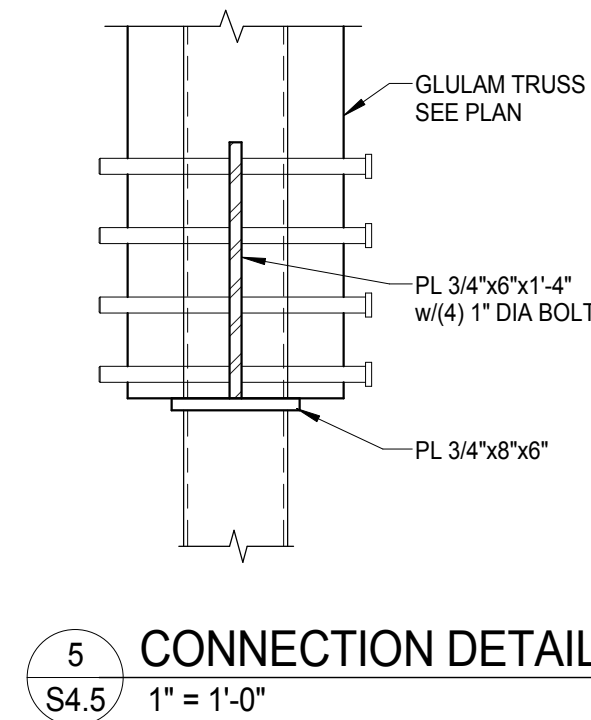
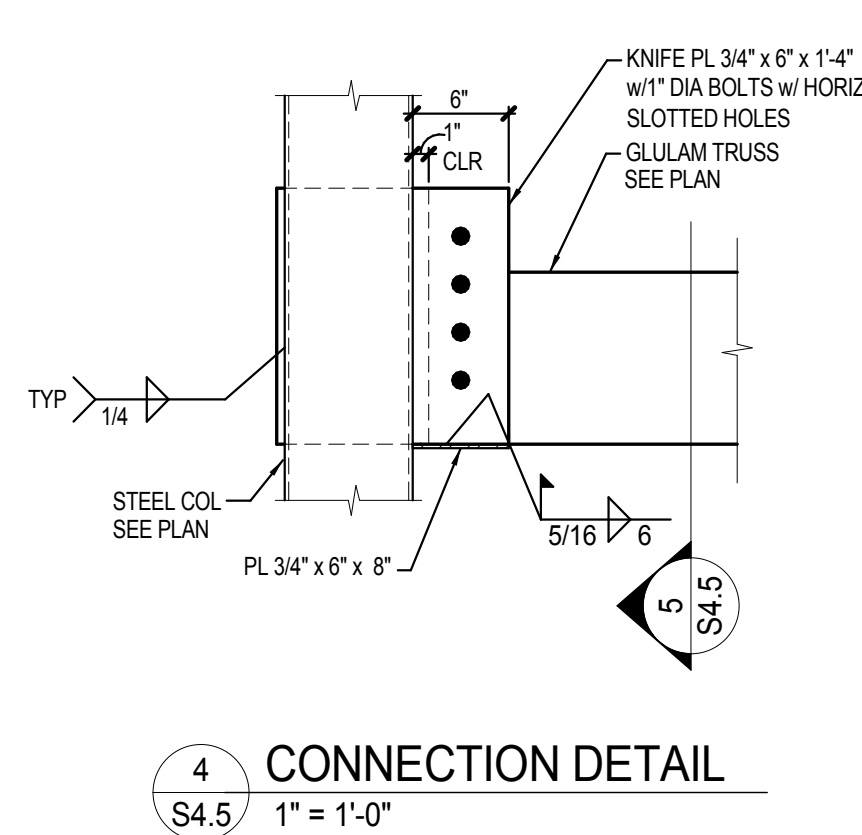
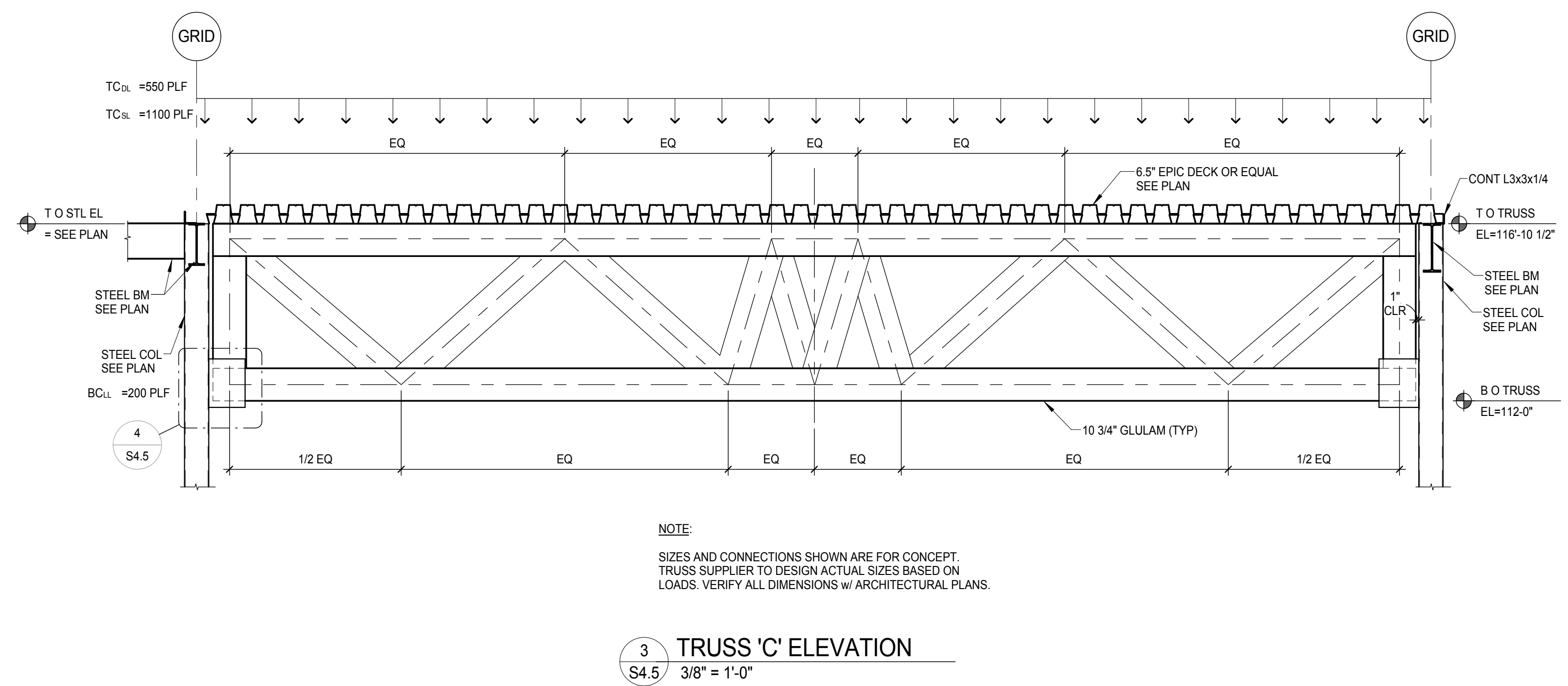
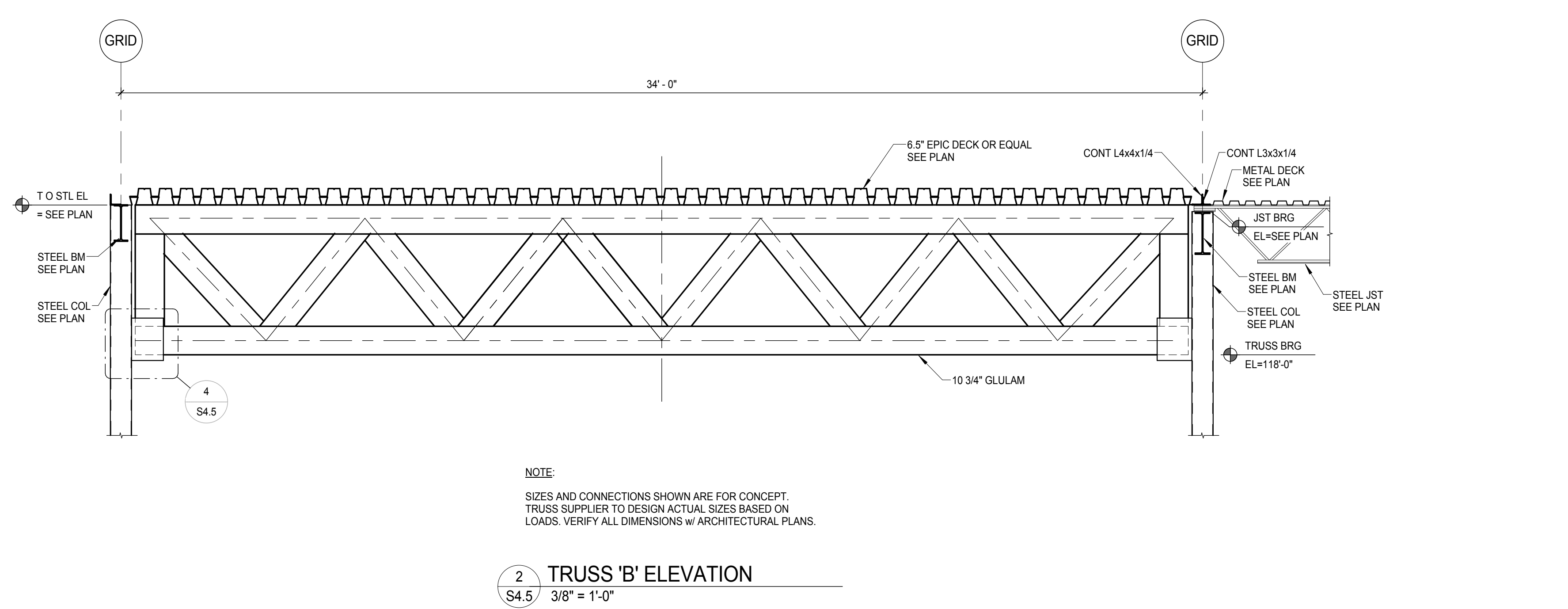
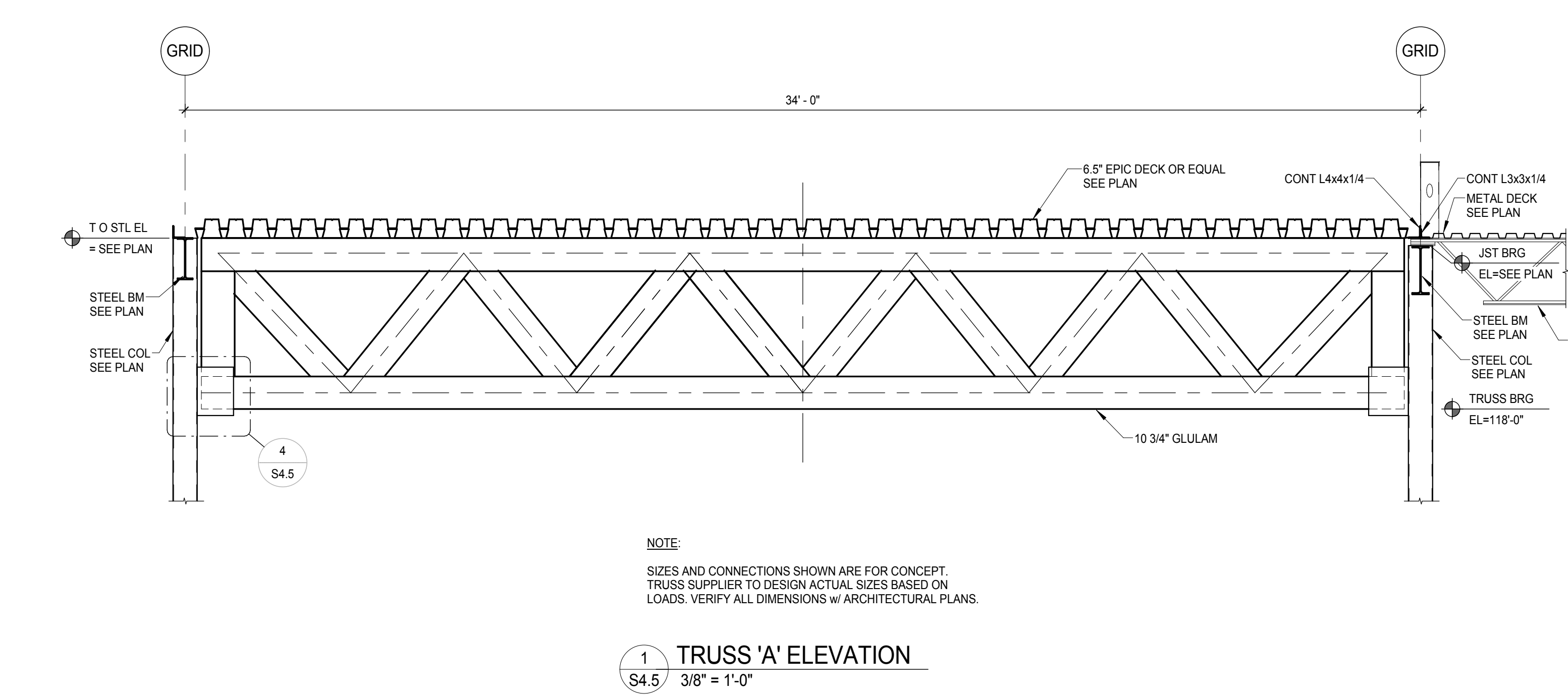


18 JST BRG DETAIL
S4.4 NO SCALE



19 DECK BRG DETAIL
S4.4 1" = 1'-0"





BID GROUP 1

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 Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature:
Date: 04/14/2016 Registration No. 41855



MOORHEAD AREA PUBLIC
SCHOOLS
NEW ELEMENTARY
SCHOOL
4400 24th Avenue S
Moorhead, MN 56500



April 14, 2016

Moorhead Area Public Schools
New Elementary School
MBN Project #15-222
Moorhead, Minnesota

BID DATE: 2:30 p.m., April 21st, 2016

ADDENDUM NO. 1

Drawings and Project Specification Manual for the above referenced project are hereby revised in accordance with the items set forth herein. This Addendum supersedes and supplements all portions of the Bidding Documents with which it conflicts.

Receipt of this Addendum shall be acknowledged by entering this Addendum number on your proposal.

The following are changes or additions to the Bidding Documents dated **April 7th, 2016**

CHANGES TO THE DRAWINGS

Sheet C1.1 - Erosion Control Plan

1. See attached sheet S11/C1.1 for changes to the Erosion Control Plan.

END OF ADDENDUM NO. 1

SITE EARTHWORK CONTRACTOR (31A) SHALL PROVIDE CONSTRUCTION OF 24' WIDE SITE ACCESS ROAD AND ADJACENT STAGING AREAS FOR BUILDING CONTRACTORS DURING CONSTRUCTION. ROAD BASE SHALL BE CONSTRUCTED WITH A LAYER OF GEOTEXTILE FABRIC AND 12" CRUSHED CONCRETE. COORDINATE LOCATION WITH CONSTRUCTION MANAGER. TEMPORARY ROADWAY SHALL BE REMOVED BY SITE EARTHWORK CONTRACTOR (31A) WHEN NO LONGER NEEDED. AFTER THE TEMPORARY ACCESS ROAD IS REMOVED, 31/31A CONTRACTOR SHALL SCARIFY EXISTING TOPSOIL & COMPACT TO ORIGINAL CONDITION IN ALL AREAS DISTURBED BY TEMPORARY ACCESS ROAD CONSTRUCTION. SEE SECTION 32 1123-AGGREGATE BASE COURSE.