

GENERAL STRUCTURAL NOTES

GENERAL:

- CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, AND ELEVATIONS AS SHOWN ON CONTRACT DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF WR&A. FAILURE TO COMPLY MAY RESULT IN REWORK AT CONTRACTOR'S EXPENSE.
- THE SIZES AND LOCATIONS OF EQUIPMENT SUPPORTS, EQUIPMENT-RELATED FLOOR AND WALL OPENINGS, ARE DEPENDENT ON THE ACTUAL EQUIPMENT FURNISHED. CONTRACTOR MUST VERIFY AND COORDINATE ALL SUCH ITEMS BEFORE PROCEEDING WITH WORK. DIMENSIONS INDICATED ON THESE DRAWINGS SHALL NOT BE ALTERED WITHOUT APPROVAL FROM WR&A. STRUCTURAL DRAWINGS MAY NOT SHOW ALL EQUIPMENT PADS AND OTHER EQUIPMENT SUPPORTS REQUIRED. REFER TO AND WORK WITH CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND MANUFACTURER'S OFFICIAL SPECIFICATIONS, DIAGRAMS AND INSTALLATION INSTRUCTIONS BEFORE PROCEEDING WITH WORK. QUESTIONS CAN BE DIRECTED TO WR&A.
- THE LOCATION OF BORINGS CONDUCTED BY "DRAPER ADEN ASSOCIATES" ARE SHOWN IN THE SOILS REPORT. BORING LOGS ARE INCLUDED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION ACTIVITIES, INCLUDING THOSE OF ALL SUBCONTRACTORS.

FOUNDATION NOTES:

- EXCAVATION FOR THE CONSTRUCTION OF THE BASEMENT MAT SLAB AND FOUNDATION WALLS WILL REQUIRE PROVISIONS FOR SOIL CONTAINMENT, WHICH MAY INCLUDE THE USE OF SHEET-PIILING. CONTRACTOR IS REQUIRED TO COORDINATE WITH THE SOILS ENGINEER FOR DIRECTIVES ON THESE ACTIVITIES. FAILURE TO COMPLY MAY RESULT IN REWORK AT CONTRACTOR'S EXPENSE.
- KEEP ALL EXCAVATIONS DRY. STANDING WATER IN EXCAVATED AREAS IS NOT ALLOWED. PROVIDE A LAYER OF 6 MIL VAPOR BARRIER AND A 6" LAYER OF COMPACTED CRUSHED STONE FILL UNDER ALL SLABS ON GRADE AND 6" LAYER UNDER THE MAT FOUNDATION AND SPREAD FOOTINGS.
- COORDINATE MECHANICAL AND ELECTRICAL WORK PRIOR TO PROCEEDING WITH FOUNDATION WORK, SEE MECHANICAL AND ELECTRICAL DRAWINGS.
- SOIL BEARING CAPACITY FOR WHICH ALL SPREAD FOOTINGS HAVE BEEN DESIGNED IS A MAXIMUM OF 3500 PSF PER RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. THE BASEMENT MAT FOUNDATION HAS BEEN DESIGNED FOR A MAXIMUM VALUE OF K1=66.7 PCI FOR THE SUBGRADE MODULUS FACTOR.
- CONTRACTOR SHALL NOT PLACE ANY BACKFILL AGAINST THE BASEMENT STRUCTURE UNTIL THE FIRST FLOOR IS IN PLACE AND THE CONCRETE REACHES A COMPRESSIVE STRENGTH OF 3500 PSI.

CONCRETE NOTES:

- PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- DETAIL AND CONSTRUCT REINFORCED CONCRETE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE."
- DETAIL REINFORCING STEEL IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," AND ACI SP-66, "ACI DETAILING MANUAL."
- PROVIDE REINFORCEMENT CONFORMING TO ASTM A 615, GRADE 60, DEFORMED BARS.
- PROVIDE WELDED WIRE FABRIC CONFORMING TO ASTM A 185.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:

A. BOTTOM BARS IN FOOTINGS AND IN SLABS ON EARTH OR CRUSHED STONE: 3".

B. BEAMS, SLABS, COLUMNS AND WALLS EXPOSED TO GROUND, WEATHER AFTER REMOVAL OF FORMS: 2"

C. BEAMS, COLUMNS, WALLS AND PIERS NOT EXPOSED TO WEATHER: 1-1/2".

D. STRUCTURAL SLABS NOT EXPOSED TO GROUND, WEATHER OR TRUCK TRAFFIC: 1".

E. STRUCTURAL SLABS NOT EXPOSED TO GROUND, WEATHER, PROCESS LIQUID OR VAPORS, BUT SUBJECT TO TRUCK TRAFFIC:

TOP OF SLAB: 1-1/2".

BOTTOM OF SLAB: 1".

- SUBMIT REINFORCING STEEL DETAILS (SHOP DRAWINGS) AND RECEIVE APPROVAL BEFORE PROCEEDING WITH FABRICATION.
- CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
- DETAIL ALL SPLICES FOR REINFORCING BARS NOT DIMENSIONED ON THE DRAWINGS, AS TABULATED ON THIS DRAWING.
- POUR CONCRETE SLABS AND WALLS BETWEEN INDICATED JOINTS, ALLOWING A MINIMUM ELAPSED PERIOD OF 3 DAYS BETWEEN ADJACENT POURS.
- PROVIDE JOINTS AS DETAILED ON THE DRAWINGS. NO ADDITIONAL JOINTS SHALL BE USED NOR ANY OMITTED EXCEPT BY WRITTEN AUTHORIZATION FROM WR&A. APPROVED ADDITIONAL JOINTS SHALL NOT RESULT IN ADDITIONAL EXPENSE TO THE OWNER.
- PROVIDE 3/8" THICK PVC, 9" WIDE WATERSTOPS OF THE TWO-BULB TYPE AS SHOWN ON THE DRAWINGS.
- SIZE AND LOCATE ANCHOR BOLTS AND EQUIPMENT PADS OR PEDESTALS TO SUIT EQUIPMENT FURNISHED.
- REVIEW ALL DRAWINGS FROM OTHER DISCIPLINES AND COORDINATE ALL OPENINGS AND EMBEDDED ITEMS SUCH AS SLEEVES, ANCHORS, CONDUIT, ETC. THAT WILL BE INCORPORATED INTO CONCRETE WORK.
- WHERE A CONCRETE BEAM FRAMES INTO A WALL OR PIER, IF A CONSTRUCTION JOINT IS NOT INDICATED AT THE BOTTOM OF THE BEAM, PROVIDE A POCKET IN THE WALL OR PIER FOR BEAM BEARING. DEPTH OF THE POCKET SHALL BE A MINIMUM OF 4".

CONCRETE MASONRY NOTES:

- CONSTRUCT MASONRY IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI-530/ ASCE 5/ TMS 402, LATEST EDITION "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- PROVIDE MORTAR CONFORMING TO THE REQUIREMENTS OF ASTM C-270, TYPE M OR S. CEMENT USED FOR MORTAR SHALL BE PORTLAND CEMENT.
- PROVIDE GROUT CONFORMING TO THE REQUIREMENTS OF ASTM C 476 COARSE GROUT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
- PROVIDE CONCRETE MASONRY UNITS WITH A MINIMUM COMPRESSIVE STRENGTH (F'm) OF 1,500 PSI.
- PROVIDE REINFORCING BARS CONFORMING TO ASTM A 615, GRADE 60.
- MASONRY SHALL COMPLY WITH THE TYPICAL DETAILS FOR CONCRETE MASONRY WALL REINFORCING AND CONCRETE MASONRY OPENING REINFORCING AS SHOWN ON S0.3.
- SPECIAL INSPECTION IS REQUIRED ON ALL MASONRY WALLS, IN ACCORDANCE WITH ACI-530.
- ALL EXTERIOR MASONRY CURTAIN WALLS SHALL BE REINFORCED WITH #5@16" O.C., CENTERED ON FULLY GROUTED CELL, TYPICAL U.O.N

STRUCTURAL STEEL NOTES:

- FABRICATE AND ERECT STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), "MANUAL OF STEEL CONSTRUCTION".
- SUBMIT ERECTION PLANS AND SHOP DETAILS AND RECEIVE APPROVAL BEFORE PROCEEDING WITH FABRICATION. FAILURE TO COMPLY MAY RESULT IN CORRECTIVE WORK AT CONTRACTOR'S EXPENSE.
- PROVIDE STRUCTURAL STEEL WIDE FLANGE SHAPES CONFORMING TO ASTM A992 (Fy=50ksi), HSS MEMBERS CONFORMING TO ASTM A500 (Fy=46ksi), AND STEEL PLATES AND OTHERS CONFORMING TO ASTM A36 (Fy=36KSI).
- PROVIDE ANCHOR BOLTS CONFORMING TO ASTM F1554 (FyMIN=36ksi).
- PROVIDE HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. PROVIDE ALL BOLTED CONNECTIONS WITH COMPRESSIBLE-WASHER-TYPE DIRECT-TENSION INDICATORS CONFORMING TO ASTM F959.
- WELD IN COMPLIANCE WITH AMERICAN WELDING SOCIETY AWS D1.1, "STRUCTURAL WELDING CODE"
- WELD ALL SHOP CONNECTIONS WITH CLASS E-70 SERIES ELECTRODES. PROVIDE FIELD CONNECTIONS WITH HIGH STRENGTH BOLTED CONNECTIONS EXCEPT WHERE NOTED.
- ALL FULL PENETRATION WELDS SHALL FOLLOW THE MEANS AND METHODS OUTLINED IN THE AWS D1.1 WELDING CODE.
- CONNECTIONS NOT INDICATED SHALL BE DESIGNED BY THE FABRICATOR. DESIGN BEAM CONNECTIONS FOR ONE HALF OF THE TOTAL ALLOWABLE UNIFORM LOAD FOR THE SPAN OF THE BEAM AS GIVEN IN PART 2 OF THE "MANUAL OF STEEL CONSTRUCTION". USE THE VALUES IN TABLE II OF AISC MANUAL "ALLOWABLE STRESS DESIGN OF SIMPLE SHEAR CONNECTIONS". USE THE GREATEST NUMBER OF BOLTS ALLOWED FOR THE DEPTH OF THE BEAMS USING A MINIMUM YIELD OF 50 KSI.
- PROVIDE MINIMUM CONNECTION OF TWO 3/4" DIAMETER HIGH STRENGTH STEEL BOLTS OR WELDS OF EQUIVALENT STRENGTH COMPLYING WITH THE CONNECTION REQUIREMENTS DELINEATED HEREIN.
- MILL BOTTOM OF ALL COLUMNS AND FINISH TOP OF ALL BASE PLATES IN ACCORDANCE WITH AISC SPECIFICATIONS. WELD BASE PLATES TO BOTTOM OF COLUMNS.
- CONTRACTOR IS REQUIRED TO SHORE ALL GIRDERS BEFORE PLACING CONCRETE ON ELEVATED SLABS, TYP.

CODES AND STANDARDS:

- INTERNATIONAL BUILDING CODE (IBC) 2003 INCLUDING THE MODIFICATIONS MADE BY LOCAL JURISDICTION.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION - NINTH EDITION- ALLOWABLE STRESS DESIGN.
- AMERICAN CONCRETE INSTITUTE ACI-318 2005, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- AMERICAN CONCRETE INSTITUTE ACI-530/ ASCE 5/ TMS 402, 2005 EDITION "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE 7 2005, "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES."
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES," LATEST EDITION.
- FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FEMA-353 2000, "RECOMMENDED SPECIFICATIONS AND QUALITY ASSURANCE GUIDELINES FOR STEEL MOMENT-FRAME CONSTRUCTION FOR SEISMIC APPLICATIONS".

LAP SPlice LENGTH					MINIMUM TENSION EMBEDMENT			
BAR SIZE	SLAB AND WALL		BEAM		STD 90 HOOK		STD 180 HOOK	
ENGLISH	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	ldh	12db	ldh	4db
#3	12"	16"	13"	18"	6"	5"	6"	2 1/2"
#4	15"	20"	22"	28"	7"	6"	7"	2 1/2"
#5	20"	24"	32"	41"	9"	8"	9"	3"
#6	22"	30"	40"	52"	10"	9"	10"	3"
#7	37"	48"	59"	76"	12"	11"	12"	4"
#8	48"	60"	68"	89"	14"	12"	14"	4"
#9	58"	74"	77"	101"	15"	14"	15"	5"
#10	70"	91"	88"	114"	17"	16"	17"	5"
#11	83"	108"	98"	128"	19"	17"	19"	6"

STEEL DECK NOTES:

- FABRICATE AND ERECT ALL STEEL DECK CONFORMING TO THE REQUIREMENTS OF "STEEL DECK INSTITUTE" (SDI), DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS - NO.31.
- STEEL DECK SHALL BE FABRICATED OF G-90 GALVANIZED SHEETS CONFORMING TO ASTM C53-06a, STRUCTURAL QUALITY, AND FEDERAL SPECIFICATION QQ-S-775.
- STEEL DECK SHALL BE 2VL118 BY "VULCRAFT" OR APPROVED EQUAL FOR 1ST AND 2ND FLOOR AREAS. STEEL DECK SHALL BE 1.5VL18 BY "VULCRAFT" OR APPROVED EQUAL FOR ATTIC AREAS. STEEL DECK SHALL BE 1.5B18 BY "VULCRAFT" OR APPROVED EQUAL FOR ROOF AREAS NOT SUPPORTED BY LIGHT GAUGE ROOF TRUSSES. REFER TO DRAWING S5.5 FOR LIGHT GAUGE ROOF TRUSS ELEVATIONS, DETAILS, AND NOTES FOR METAL DECK CONNECTION TO THE LIGHT-GAUGE TRUSS.
- SUBMIT ERECTION PLANS AND SHOP DETAILS AND RECEIVE APPROVAL BEFORE PROCEEDING WITH FABRICATION AND ERECTION. FAILURE TO COMPLY MAY RESULT IN CORRECTIVE WORK AT CONTRACTOR'S EXPENSE.
- STAGGERING OF STEEL DECK END LAPS IS NOT PERMITTED.
- DECK ENDS MAY BE EITHER BUTTED OR LAPPED OVER SUPPORTS.
- STEEL DECK UNITS SHALL BE ANCHORED TO SUPPORTING MEMBERS INCLUDING PERIMETER SUPPORT STEEL AND/OR BEARING WALLS BY EITHER WELDING OR MECHANICAL FASTENERS, TO PROVIDE LATERAL STABILITY TO THE TOP FLANGE OF STEEL MEMBERS AND TO RESIST THE FOLLOWING MINIMUM GROSS UPLIFTS:

a) AT EAVES OVERHANGS 45 PSF

b) ALL OTHER ROOF AREAS 30 PSF
- THE LOCATION AND NUMBER OF FASTENERS REQUIRED TO SATISFY ATTACHMENT OF DECK TO STEEL MEMBERS SHALL BE AS FOLLOWS:

a) 36/4 PATTERN SHALL BE USED AT ALL SUPPORTS

b) SIDE LAPS AND PERIMETER EDGES SHALL BE ATTACHED AT 36" MAXIMUM SPACING, BUT WITH A MINIMUM OF 1 FASTENER AT MID-SPAN.
- ALL FIELD WELDING OF DECK SHALL BE IN STRICT ACCORDANCE WITH AWS D1.3 STRUCTURAL WELDING CODE - SHEET METAL.
- A MINIMUM VISIBLE 5/8 INCH DIAMETER PUDDLE WELDS OR AN ELONGATED WELD WITH AN EQUAL PERIMETER IS REQUIRED. FILLET WELDS, WHEN USED, SHALL BE AT LEAST 1 INCH LONG.

DESIGN LOADS:

- DEAD LOADS:

A. STRUCTURES: ACTUAL WEIGHT

B. WEIGHT OF SOIL: 100 PCF FOR RESISTING UPLIFT AND BUOYANCY

C. WEIGHT OF SOIL: 120 PCF FOR DEAD LOAD

D. MECHANICAL/ELECTRICAL/PLUMBING LOAD: 30 PSF
- LIVE LOADS:

A. FLOORS: 100 PSF IN OFFICE AREAS & 200 PSF IN AREAS OCCUPIED BY EQUIPMENT OR TRUCK LOADING.

B. EQUIPMENT: ACTUAL WEIGHT OF EQUIPMENT.

C. TRUCK: HS-20 AASHTO LOADING

D. WALKWAYS AND STAIRWAYS: 100 PSF.

E. ROOF: 20 PSF.

F. SNOW LOAD:

GROUND SNOW LOAD (Pg): 25 PSF.

IMPORTANCE FACTOR: 1.2

Ce: 1.0

Ct: 1.0

G. STAIRS: 100 PSF.
- WIND LOAD:

A. BASIC WIND SPEED: V = 90 MPH

B. EXPOSURE CATEGORY: C.

C. INTERNAL PRESSURE COEFFICIENT: +0.18 & -0.18

D. IMPORTANCE FACTOR: 1.15
- SEISMIC LOAD:

A. SPECTRAL ACCELERATION FOR A 1-SECOND: S1=0.052

B. SPECTRAL ACCELERATION FOR SHORT PERIODS: Ss=0.163

C. BUILDING OCCUPANCY CATEGORY: IV

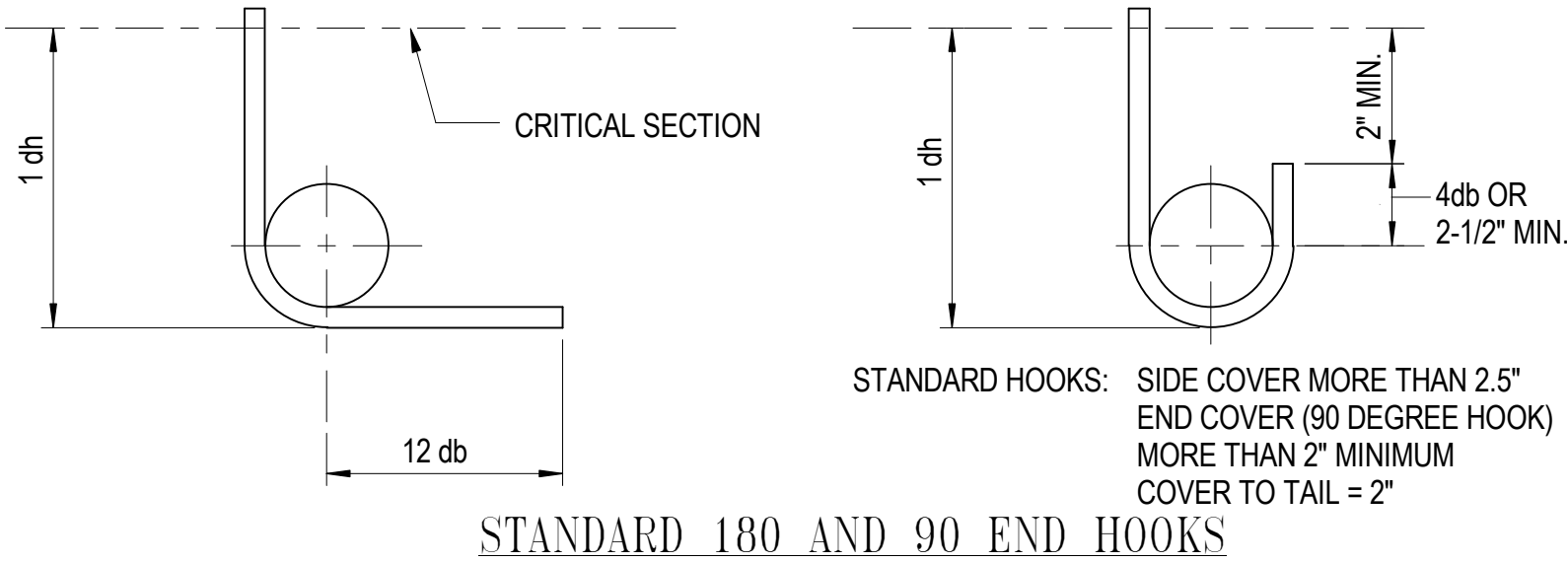
D. SITE CLASSIFICATION: D

E. IMPORTANCE FACTOR: 1.5

F. DESIGN CATEGORY: C

G. SPECTRAL RESPONSE ACCELERATION SD1= 0.084

H. SPECTRAL RESPONSE ACCELERATION SDs= 0.174



ASSUMPTIONS:

SLAB AND WALL: 6" MINIMUM REBAR SPACING WITH CONCRETE COVER = 1.5" CLEAR

BEAM: MINIMUM CLEAR SPACING BETWEEN BARS = 1.5db (BAR DIAMETER). MINIMUM CONCRETE COVER = 1.5" CLEAR. MINIMUM STIRRUP #4@12" PROVIDED.

TOP BAR: TOP BAR FOR SLAB AND BEAM SHALL BE DEFINED AS REINFORCEMENT SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST BELOW THE SPLICE

ISSUED	
35% SUBMISSION	07/06/07
65% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
BID DOCUMENTS	01/25/09

COUNTY OF KING GEORGE, VIRGINIA

KING GEORGE COUNTY

GOVERNMENT CENTER

10459 COURTHOUSE ROAD
KING GEORGE, VA 22485

SHERIFF'S OFFICE

KEY PLAN

GRAPHIC SCALES

SIGNATURE

STAMP NAME

License #1234 Exp. Date 10/10/03

801 South Caroline Street, Baltimore, MD 21231
WHITMAN, REQUARDT & ASSOCIATES, LLP
ENGINEERS, ARCHITECTS AND PLANNERS

GENERAL STRUCTURAL NOTES

Drawing No.

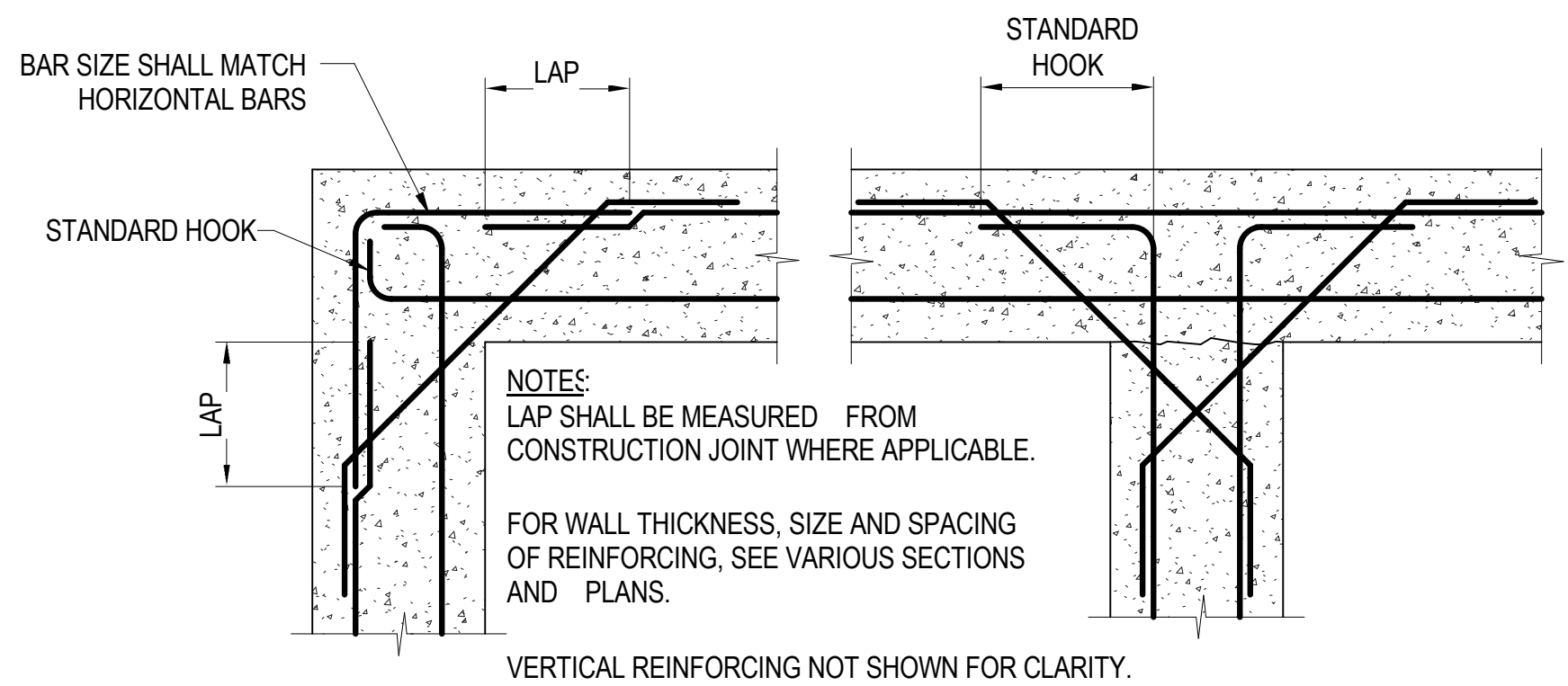
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Date: 01/25/09 Sheet 112 of 223

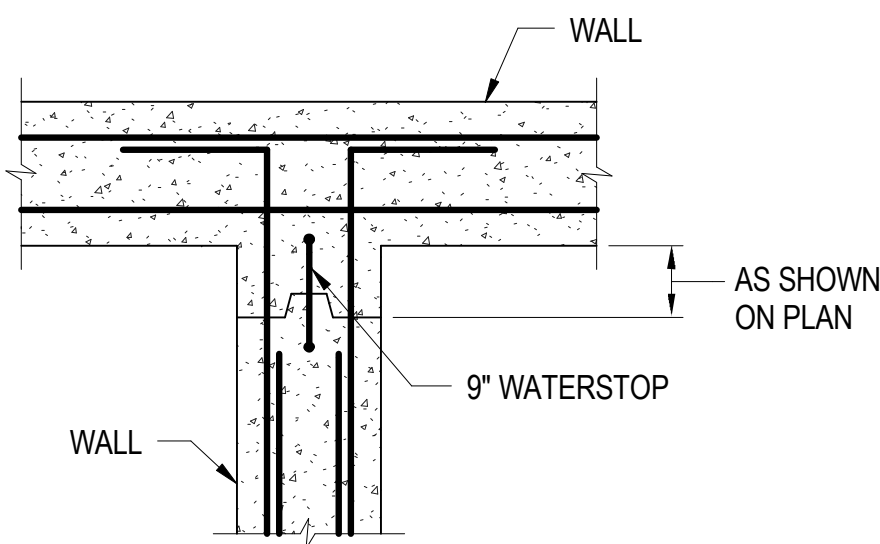
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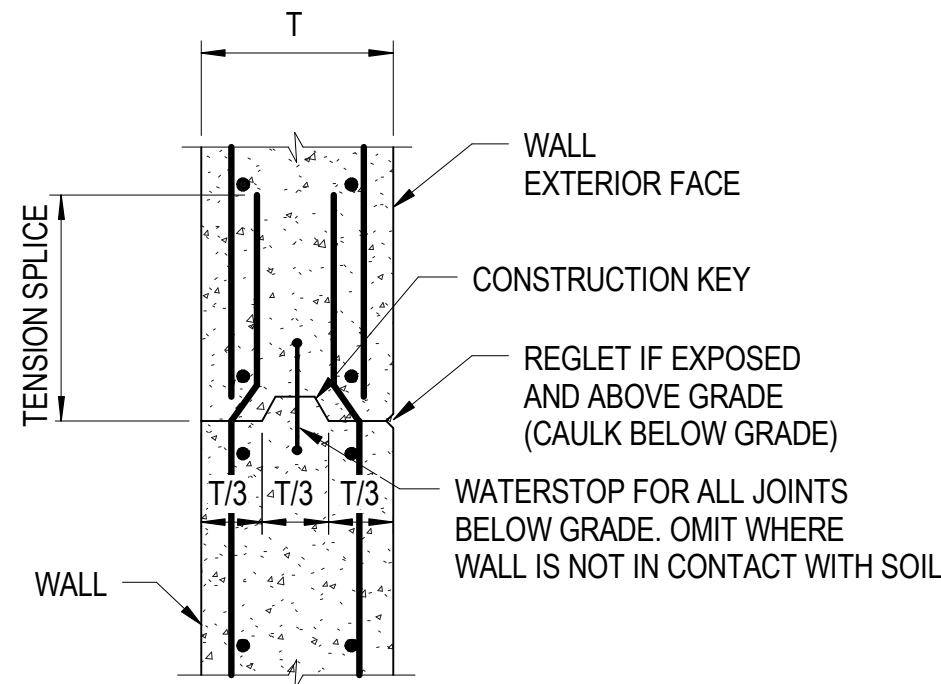
REINFORCING DETAILS AT
WALL INTERSECTIONS

NO SCALE



VERTICAL
CONSTRUCTION JOINT
IN WALLS

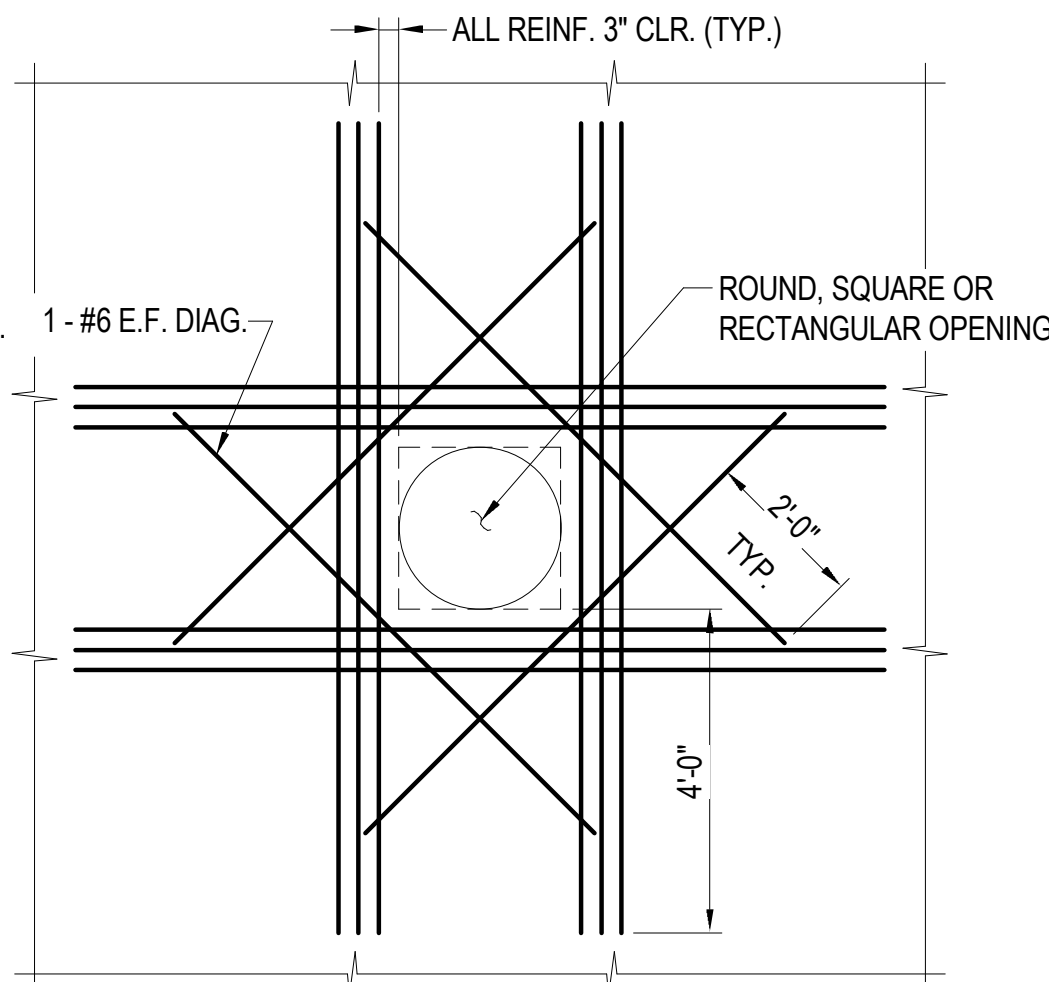
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HORIZONTAL
CONSTRUCTION JOINT
IN WALLS

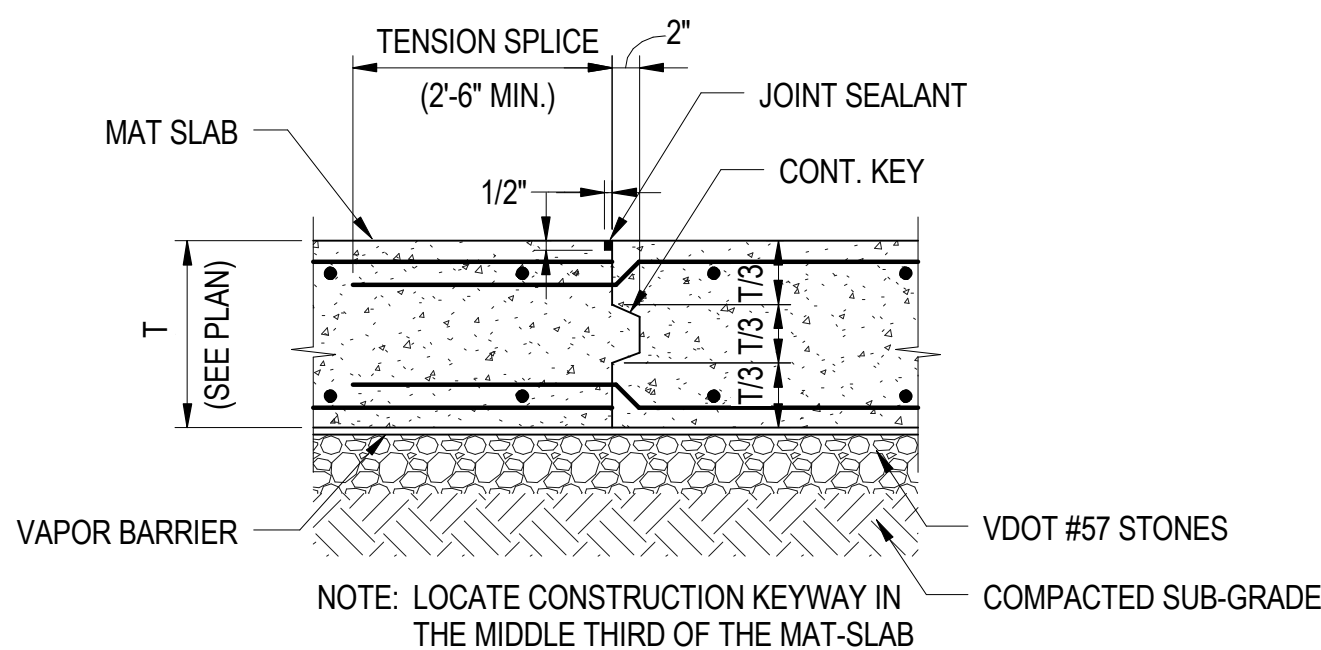
NO SCALE

NOTE:
FOR OPENINGS LESS THAN 12"
DIAMETER, NO ADDITIONAL
REINFORCING IS REQUIRED
PROVIDED NO REINFORCING IS
INTERRUPTED BY THE OPENING.



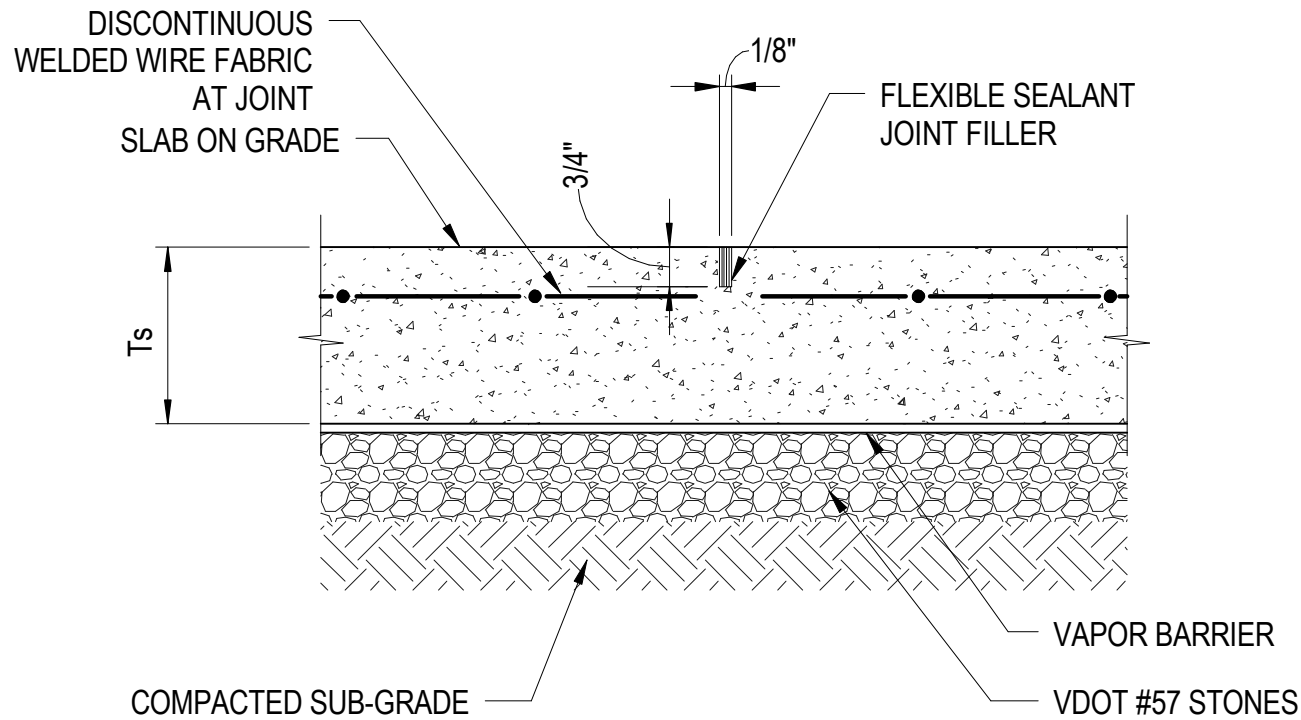
ADDITIONAL REINFORCING AROUND OPENINGS

SCALE: NONE



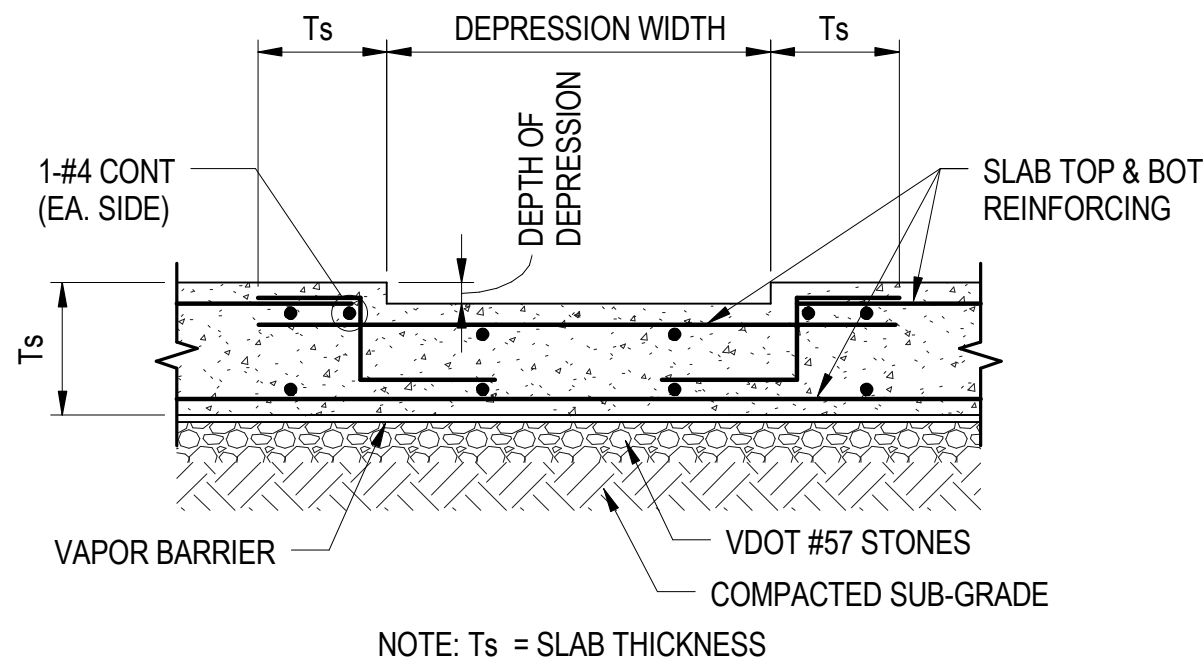
CONSTRUCTION JOINT IN MAT-SLAB

NO SCALE



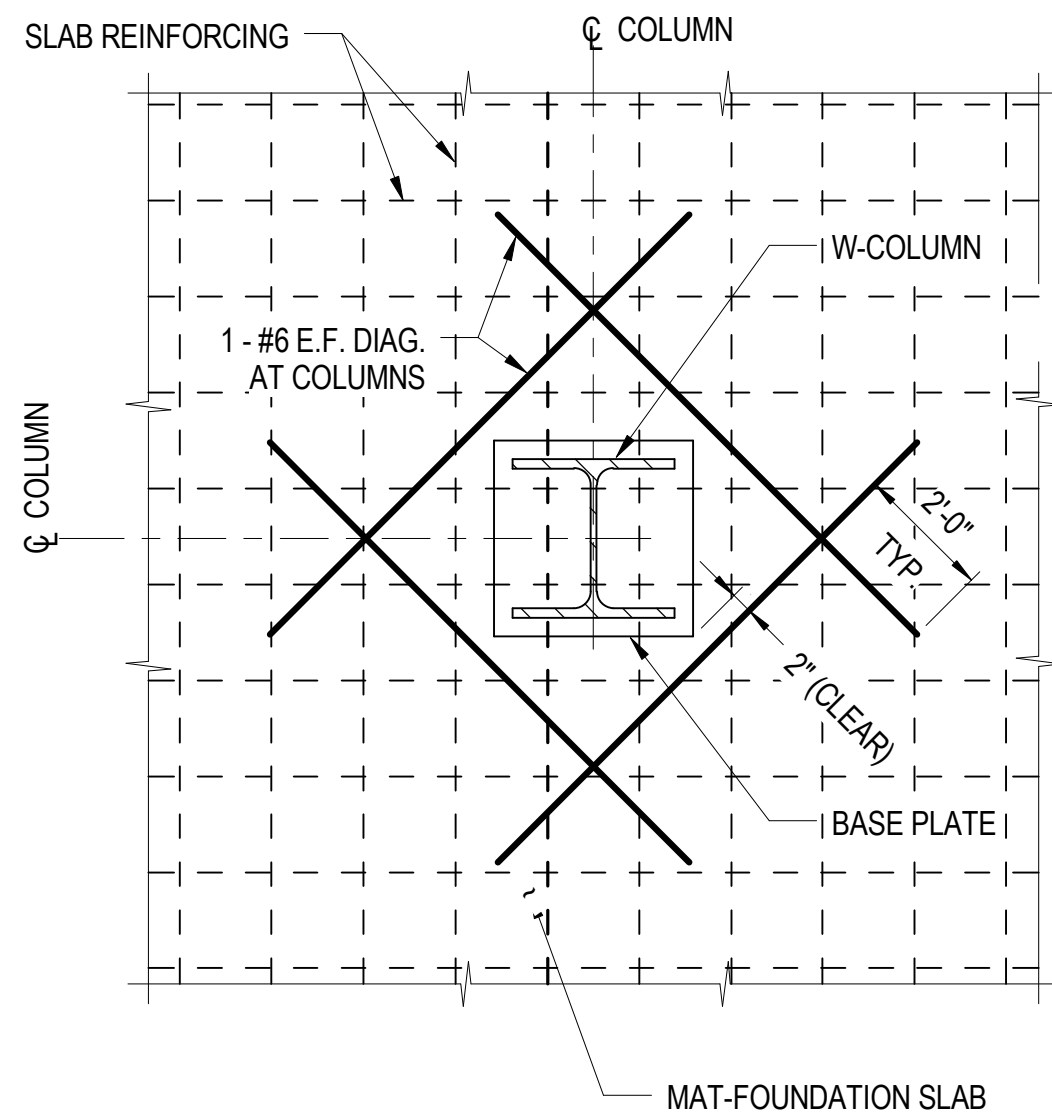
TYPICAL SLAB CONTROL JOINT DETAIL

NO SCALE



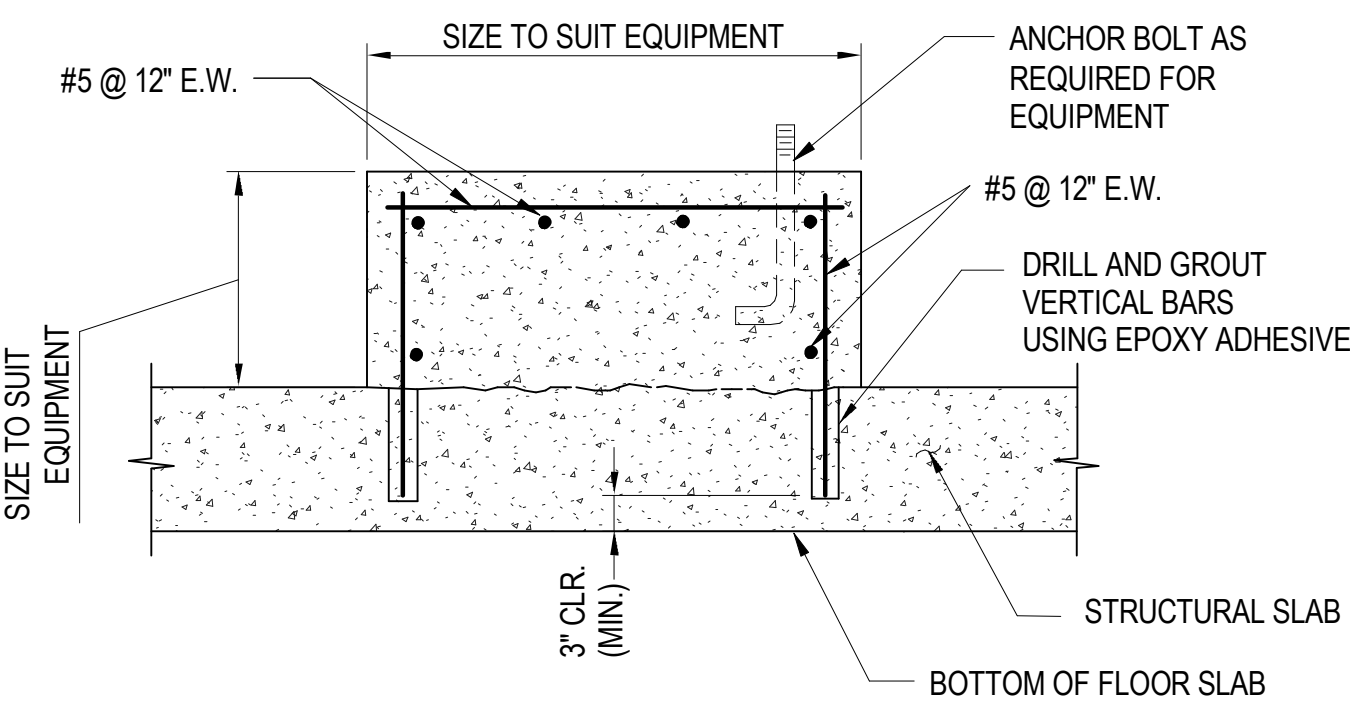
TYPICAL SLAB DEPRESSIONIN DETAIL

NO SCALE



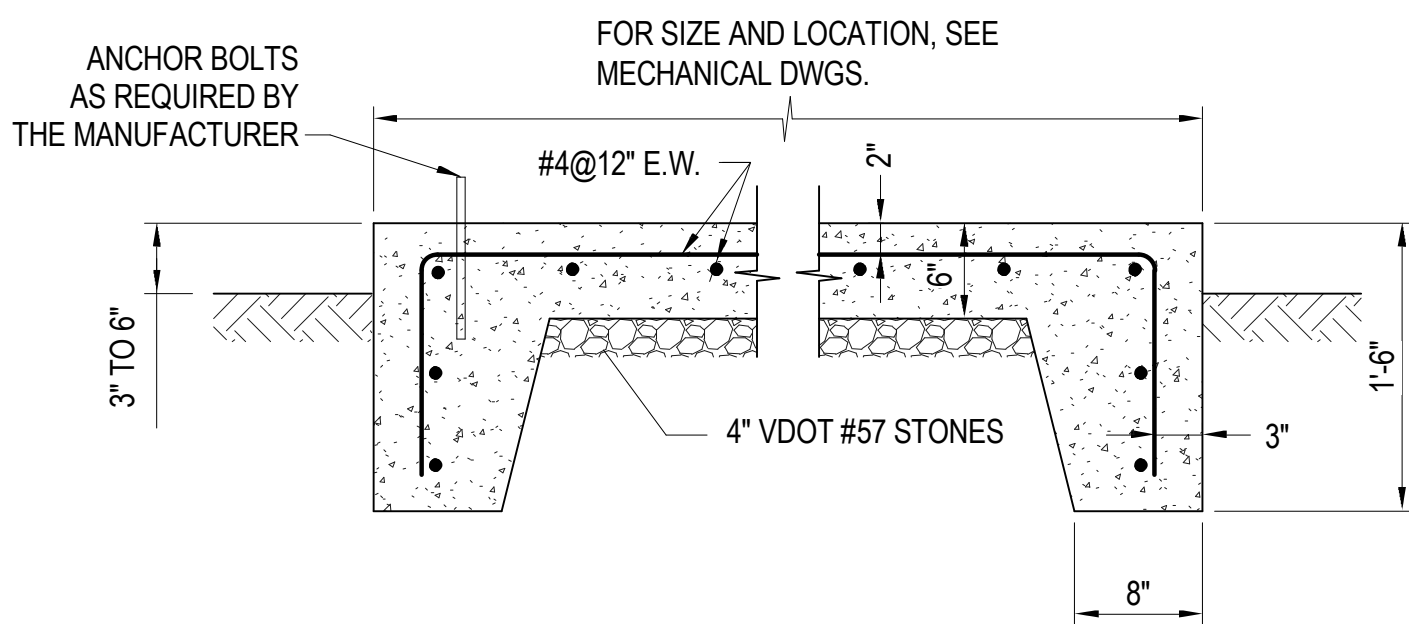
ADDITIONAL REINFORCING AT INTERIOR COLUMNS

SCALE: NONE



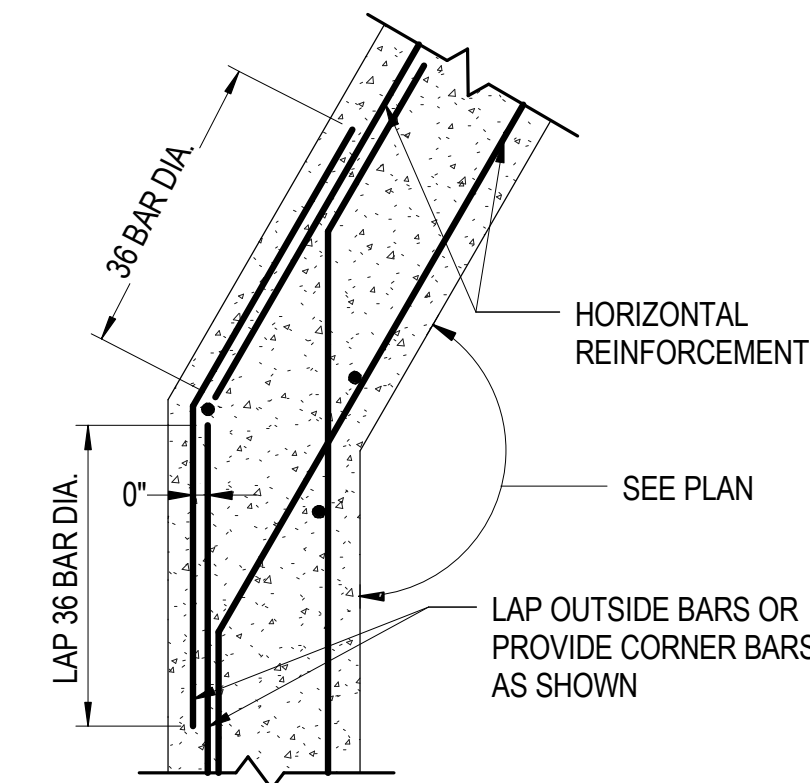
TYPICAL EQUIPMENT SUPPORT

NO SCALE



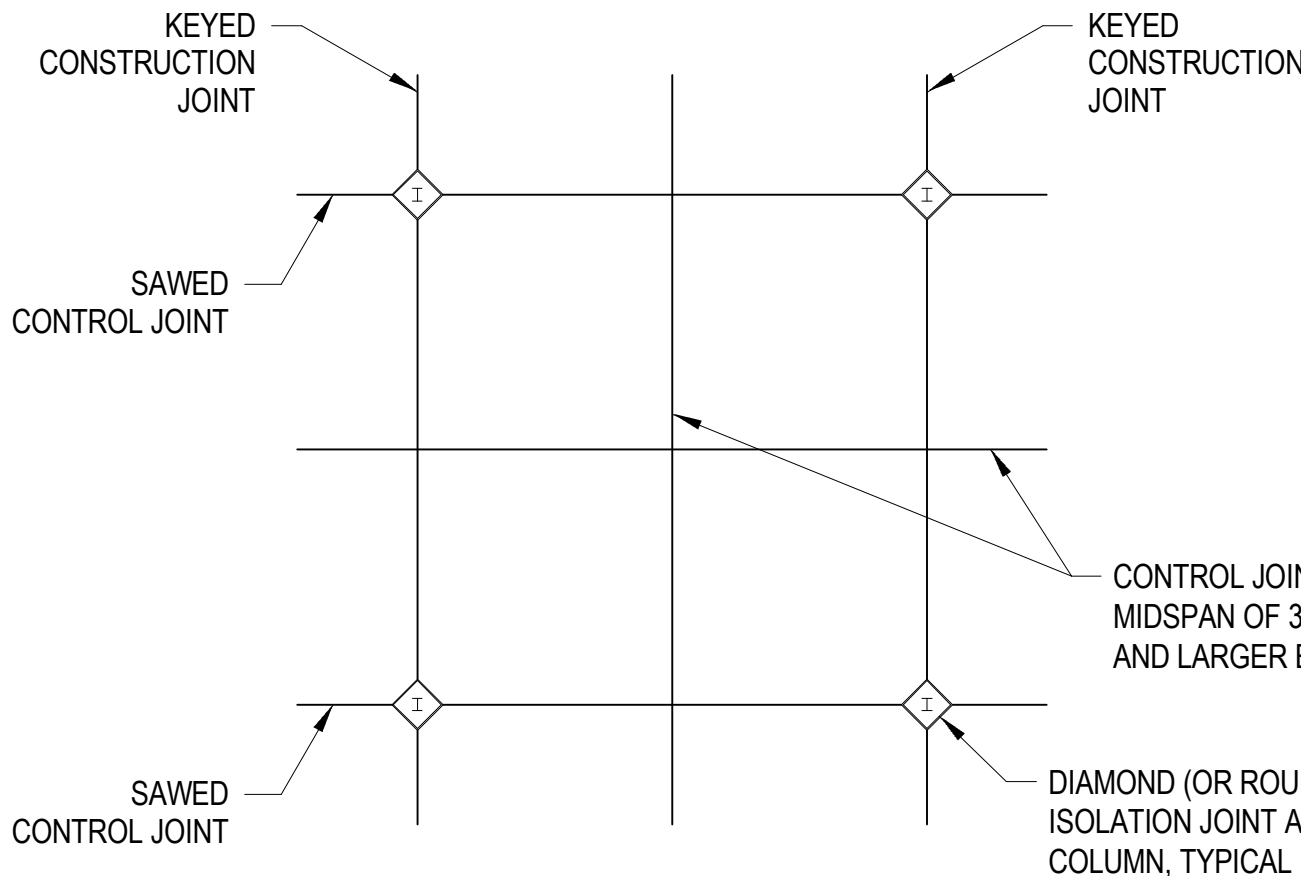
TYPICAL EXTERIOR
EQUIPMENT PAD DETAIL

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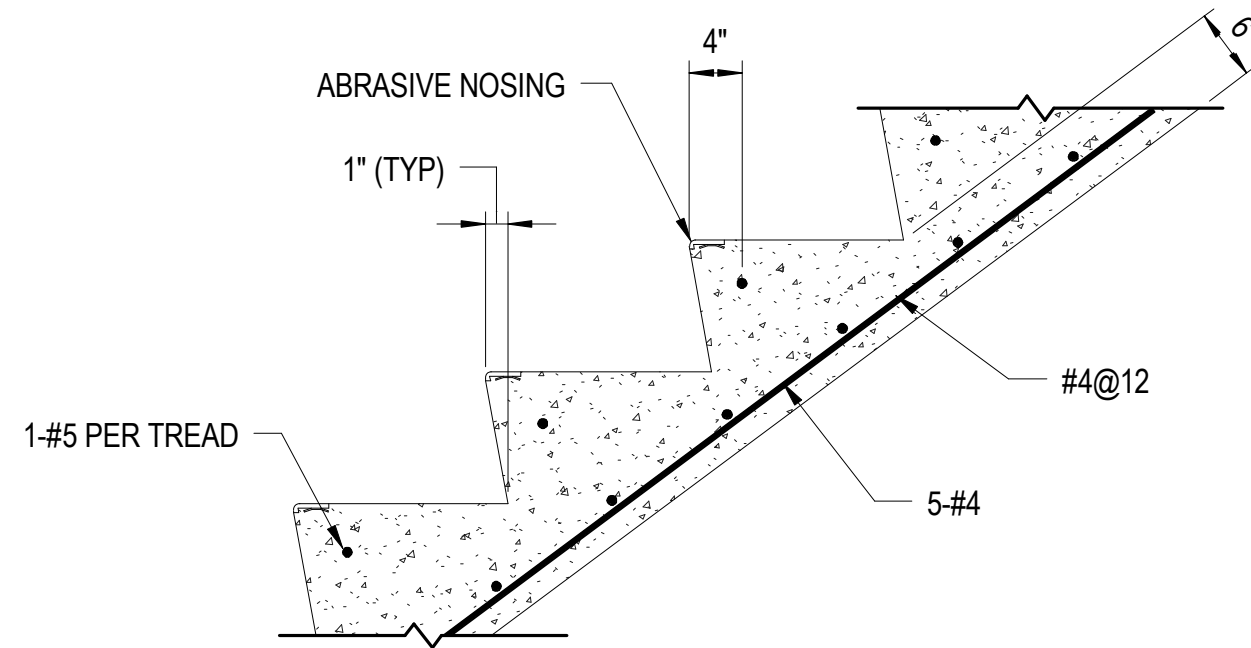
HORIZONTAL REINFORCEMENT
OF SKEWED CONCRETE WALLS

NO SCALE



TYPICAL SLAB ON GRADE
JOINTING DETAIL


NO SCALE



TYPICAL CONCRETE STAIR DETAIL

SCALE: NONE

ISSUED		
35% SUBMISSION	17/06/07	
95% SUBMISSION	04/14/08	
REVISED 95% SUBMISSION	05/16/08	
BID DOCUMENTS	01/25/09	

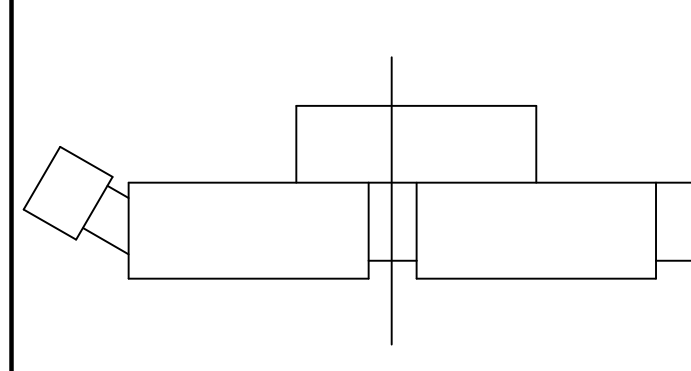


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TYPICAL STRUCTURAL DETAILS

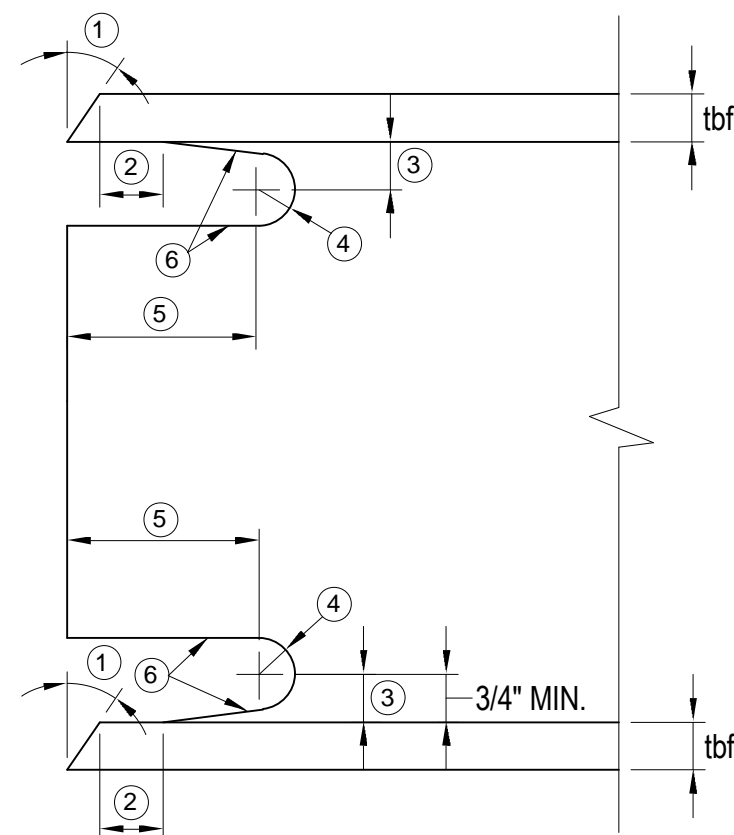
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S0.2

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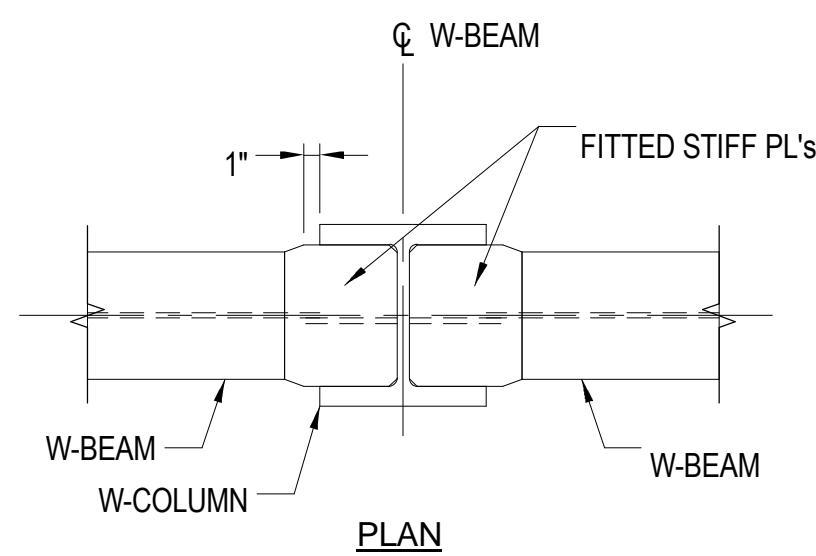
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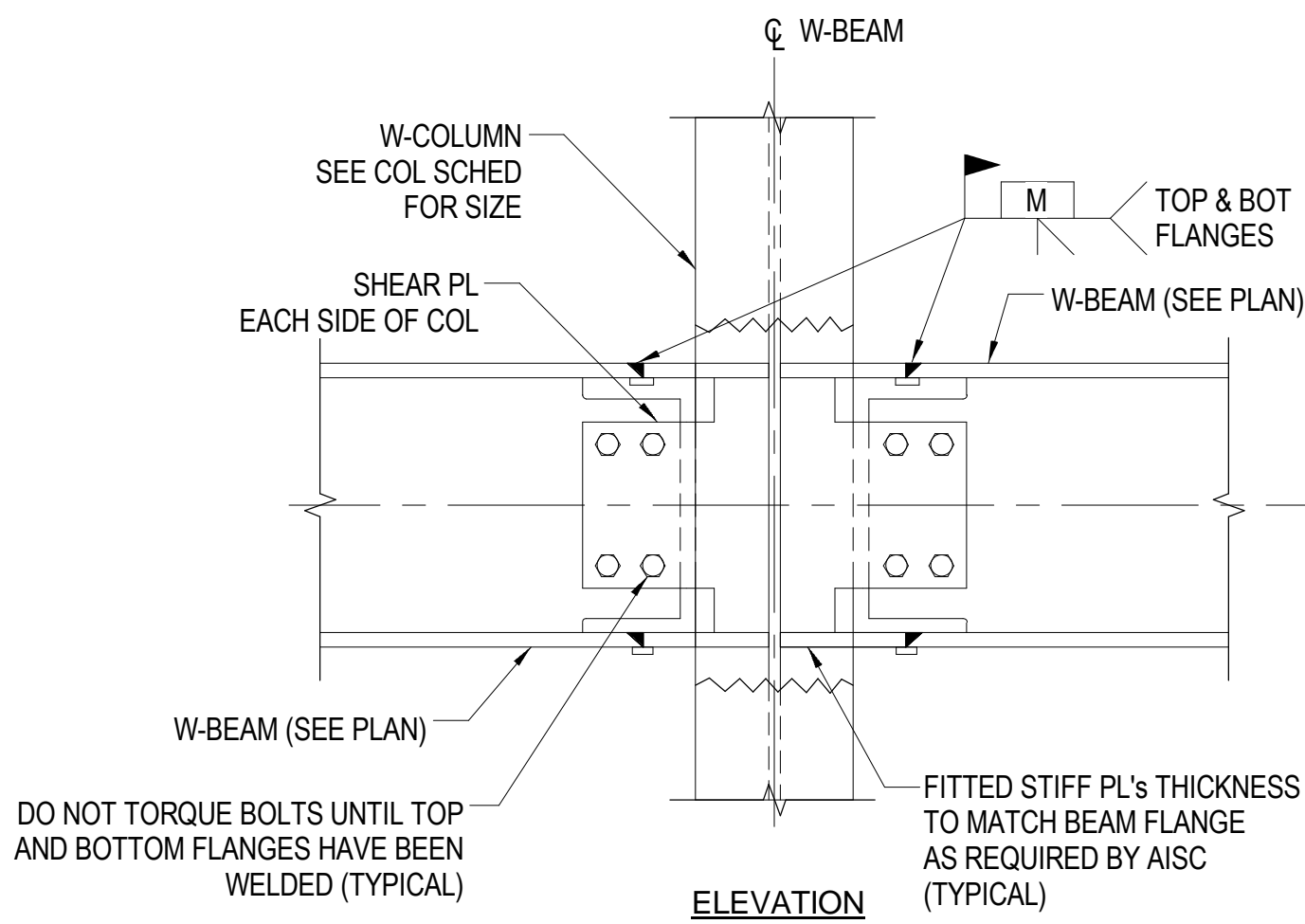


- 1 BEVEL AS REQ'D BY AWS D1.1 FOR SELECTED GROOVE WELD PROCEDURE
2 LARGER OF tbf OR 1/2" (PLUS 1/2 tbf, OR MINUS 1/4 tbf)
3 3/4 tbf TO tbf, 3/4" MINIMUM (± 1/4")
4 3/8" MIN RADIUS (PLUS NOT LIMITED, OR MINUS 0)
5 3 tbf. (± 1/2")
6 SEE FEMA-353 FOR FABRICATION REQUIREMENTS.

BEAM PREPARATION FOR MOMENT CONNECTION
NO SCALE

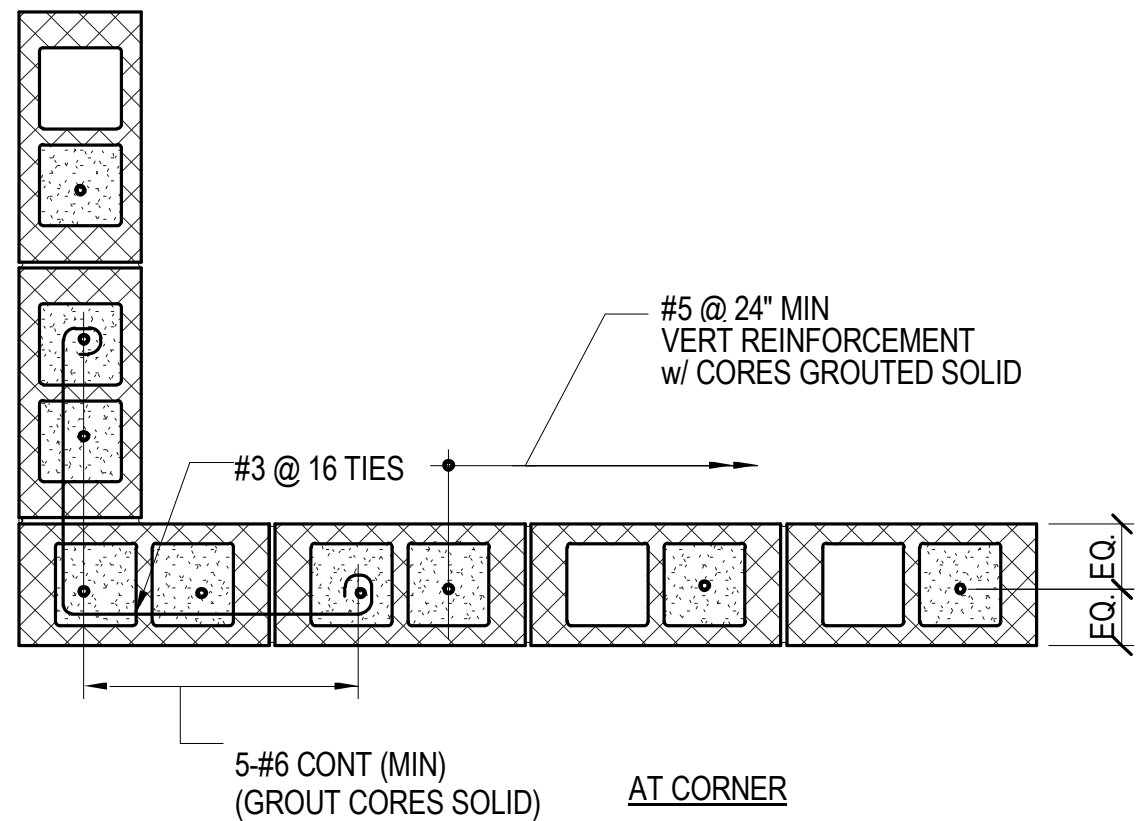


PLAN

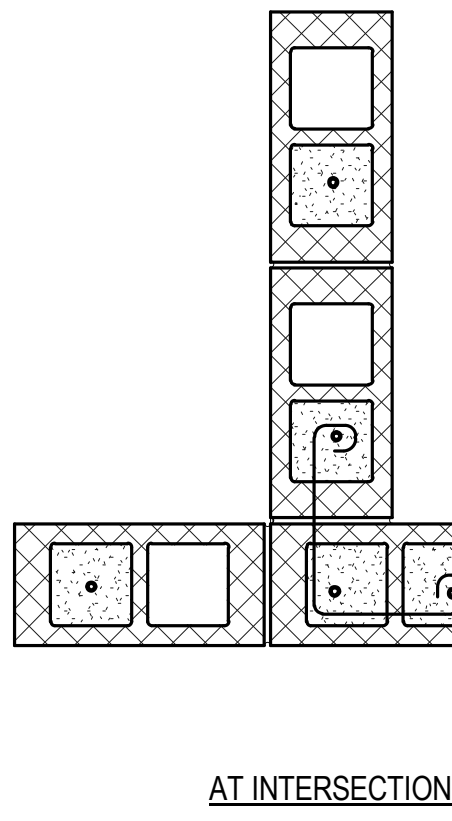


ELEVATION

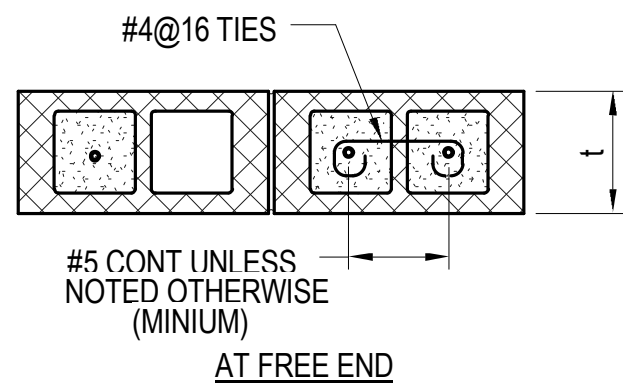
TYPICAL BEAM TO COLUMN WEB
MOMENT CONNECTION DETAIL
NO SCALE



AT CORNER

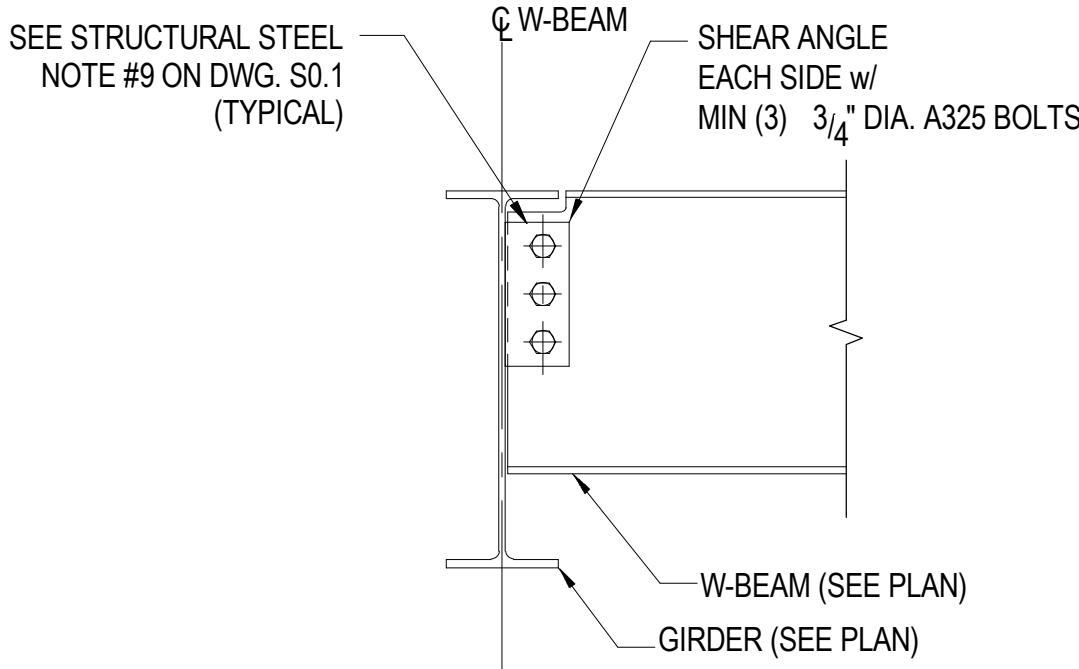


AT INTERSECTION

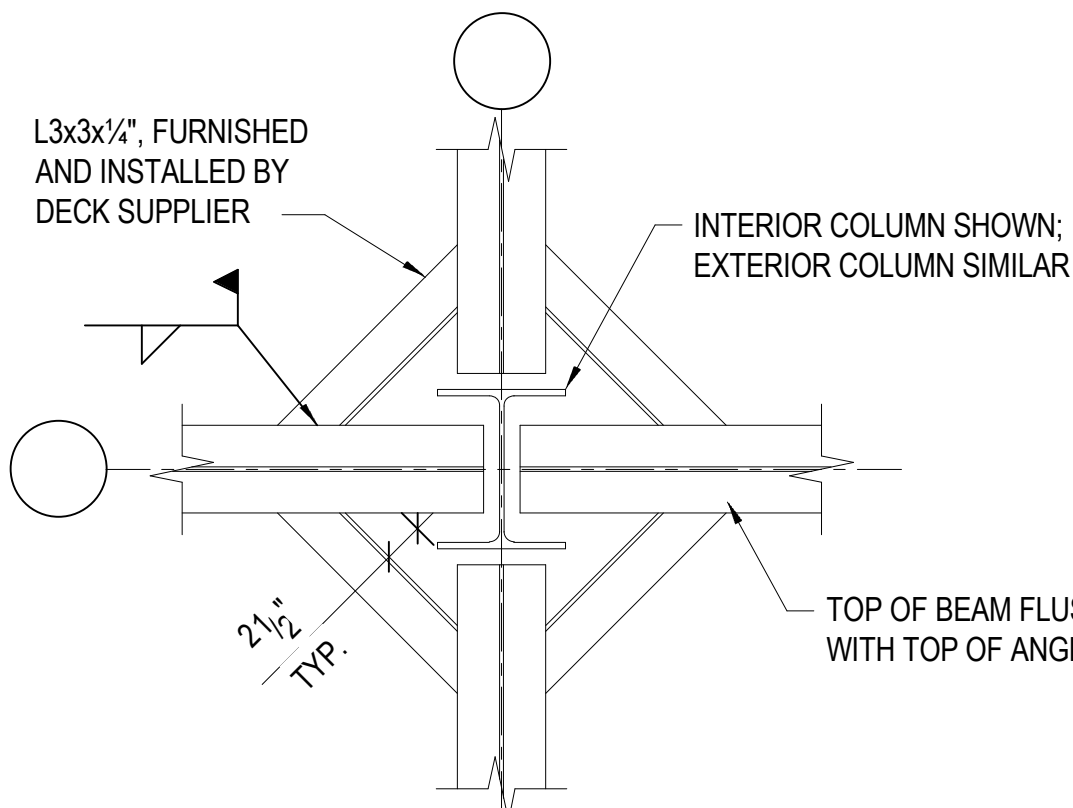


AT FREE END

TYPICAL CMU WALL REINFORCING DETAILS AT STAIR SHAFT

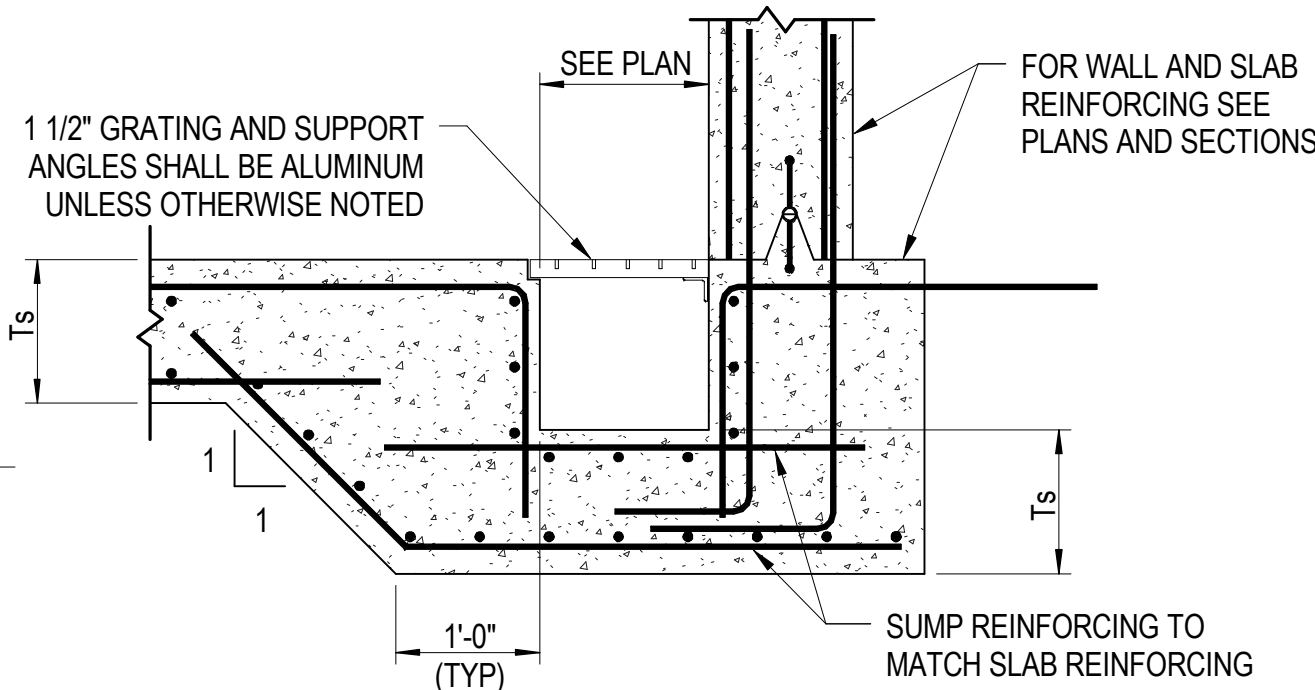


TYPICAL BEAM TO GIRDER
SHEAR CONNECTION DETAIL
NO SCALE

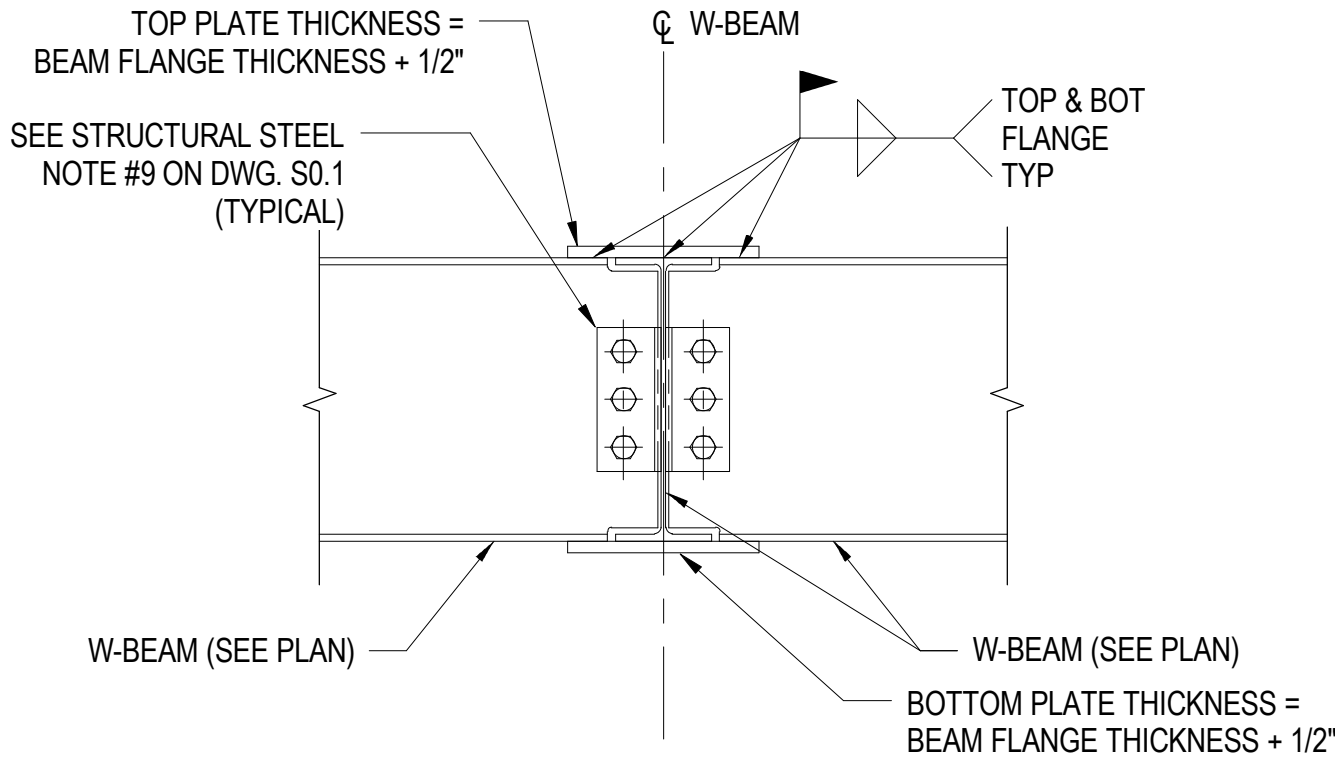


NOTE: DECK SUPPLIER MAY SUBMIT ALTERNATE METHODS OF DECK SUPPORT AT COLUMNS FOR APPROVAL. DECK SUPPORT SHALL BE CAPABLE OF SUPPORTING CONSTRUCTION LOADS.

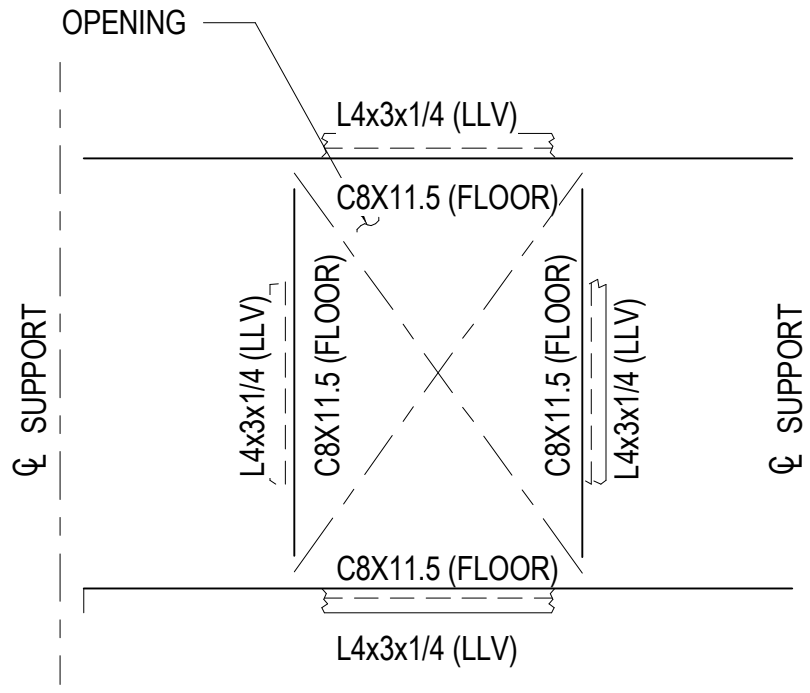
TYPICAL DECK SUPPORT AT COLUMN DETAIL
NO SCALE



TYPICAL SUMP DETAIL
NO SCALE

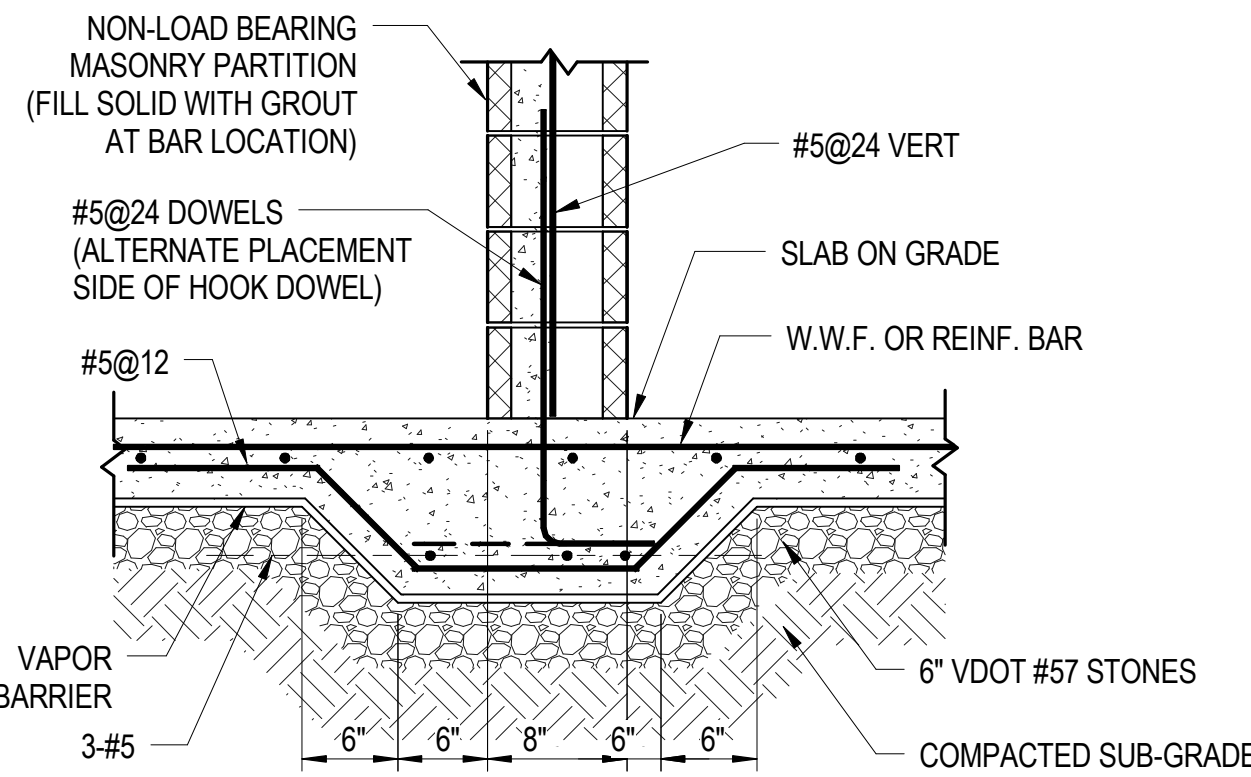


TYPICAL BEAM TO BEAM
MOMENT CONNECTION DETAIL
NO SCALE



NOTE: FLOOR AND ROOF OPENINGS SHALL BE TO SUIT THE EQUIPMENT FURNISHED.

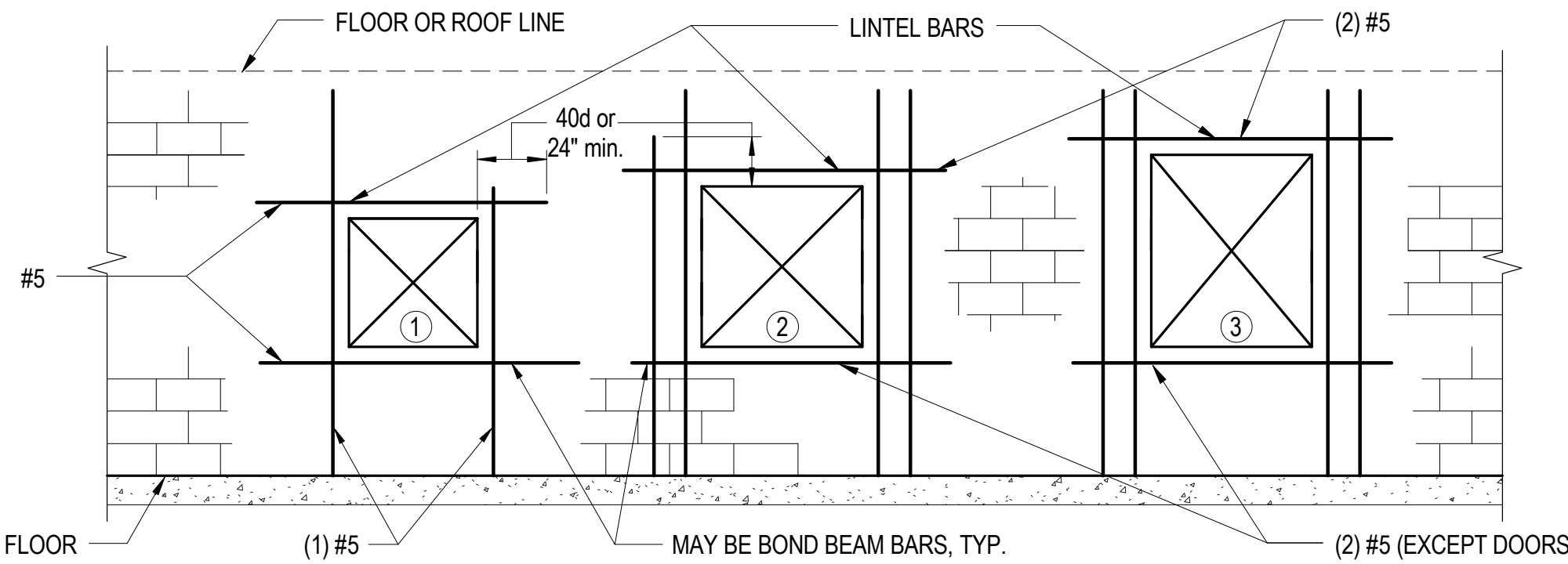
TYPICAL FRAMING AT
FLOOR/ROOF PENETRATION
NO SCALE



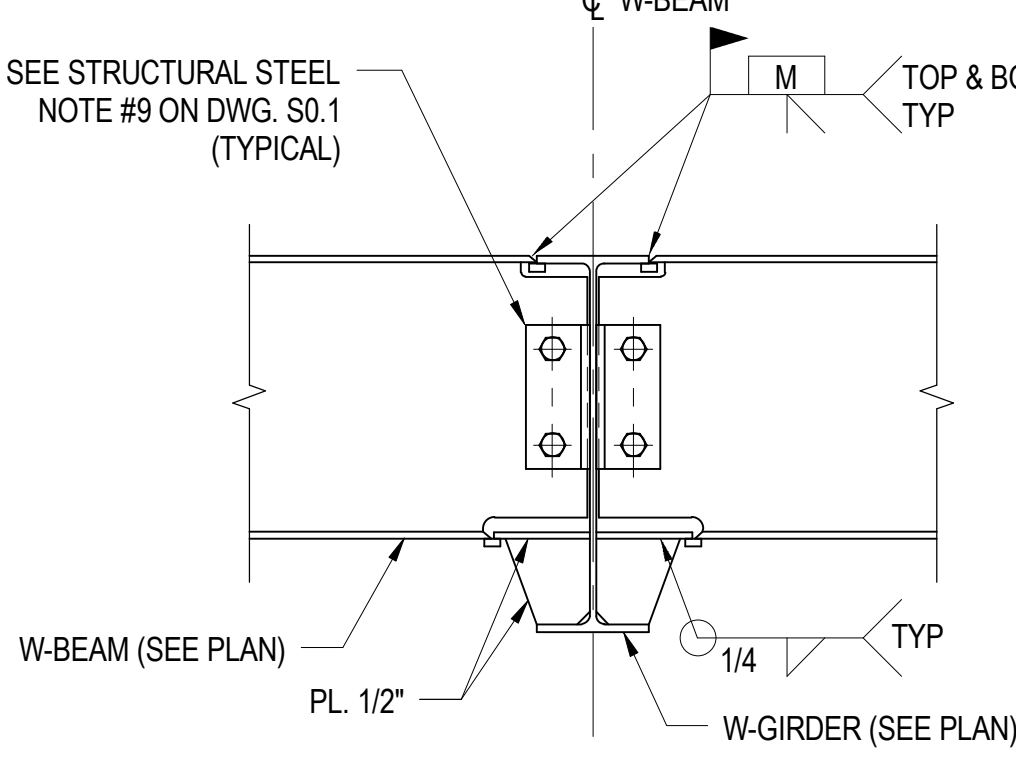
THICKENED SLAB AT PARTITION WALL
SCALE: NONE

- NOTES
1. GROUT LINTELS SOLID FOR 1' (MIN.) BEYOND OPENING
2. FOR (1) OPENINGS, CMU LINTEL IS 8" DEEP
FOR (2) OPENINGS, CMU LINTEL IS 16" DEEP
FOR (3) OPENINGS, CMU LINTEL IS 24" DEEP,
UNLESS OTHERWISE NOTED.
3. BOND BEAM REINFORCEMENT NOT SHOWN FOR CLARITY.

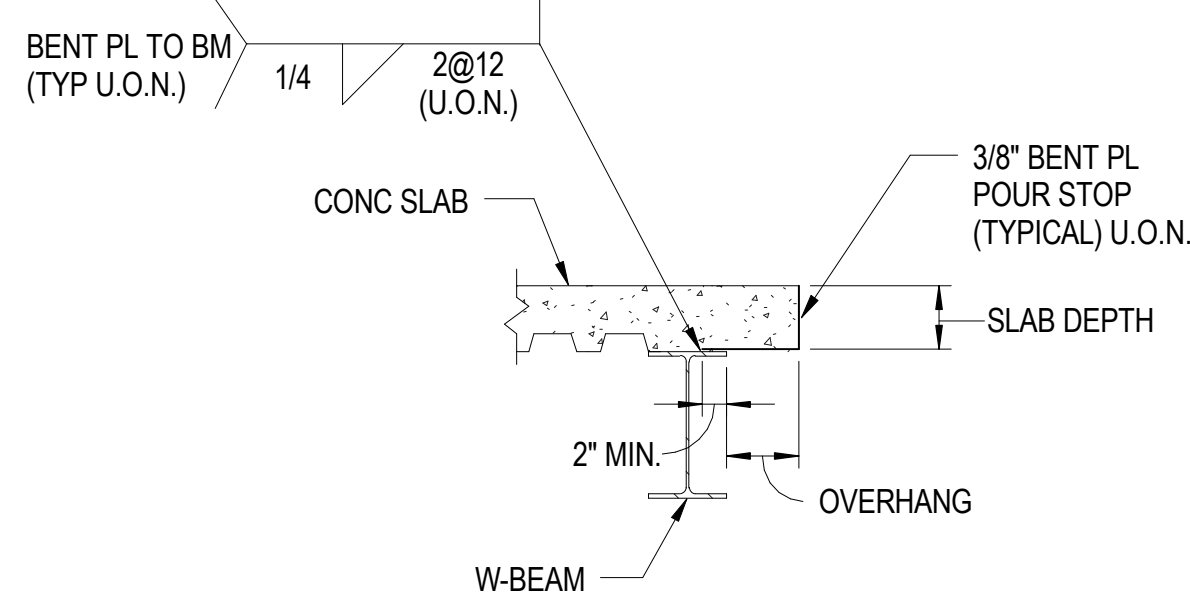
- LEGEND
1 BOTH EDGES OF OPENING 2'-0" OR LESS
2 EITHER EDGE OF OPENING EXCEED 2'-0" BUT LESS THAN 4'-0"
3 EITHER EDGE OF OPENING EXCEEDS OR EQUALS 4'-0"



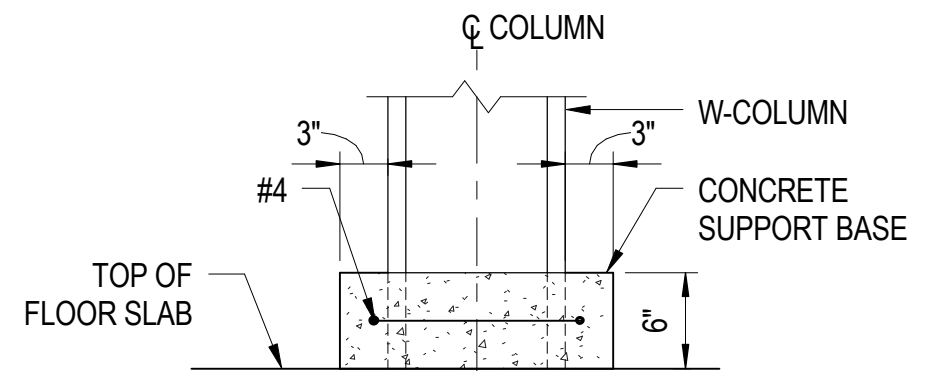
TYP. CMU OPENING REINFORCEMENT
NO SCALE



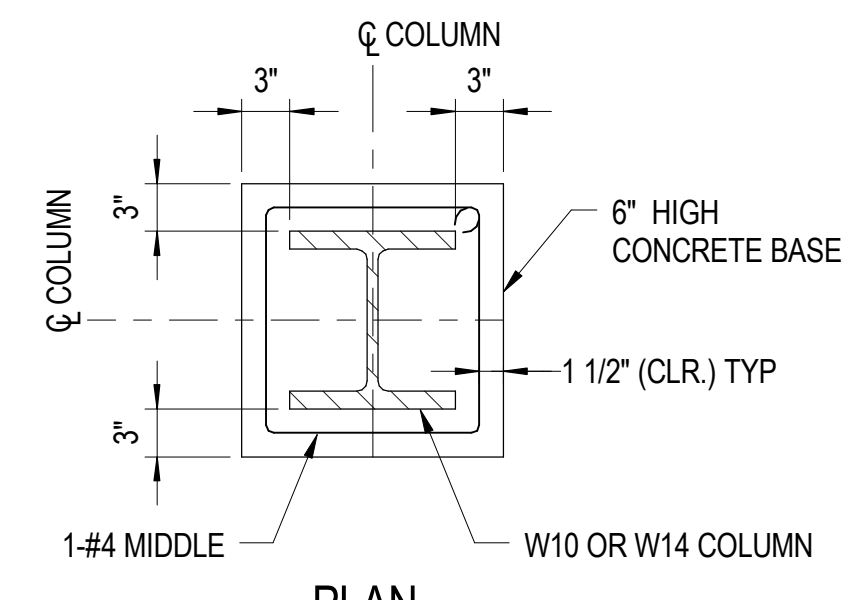
TYPICAL BEAM TO GIRDER
MOMENT CONNECTION DETAIL
NO SCALE



TYPICAL SLAB EDGE DETAIL
NO SCALE




ELEVATION



PLAN

TYPICAL TILE SUPPORT BASE DETAIL
SCALE: NONE

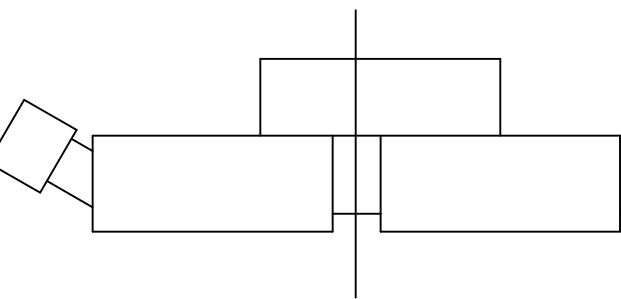
ISSUED	
35% SUBMISSION	07/06/07
95% SUBMISSION	04/14/08
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KEY PLAN



GRAPHIC SCALES

SIGNATURE

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TYPICAL STRUCTURAL DETAILS

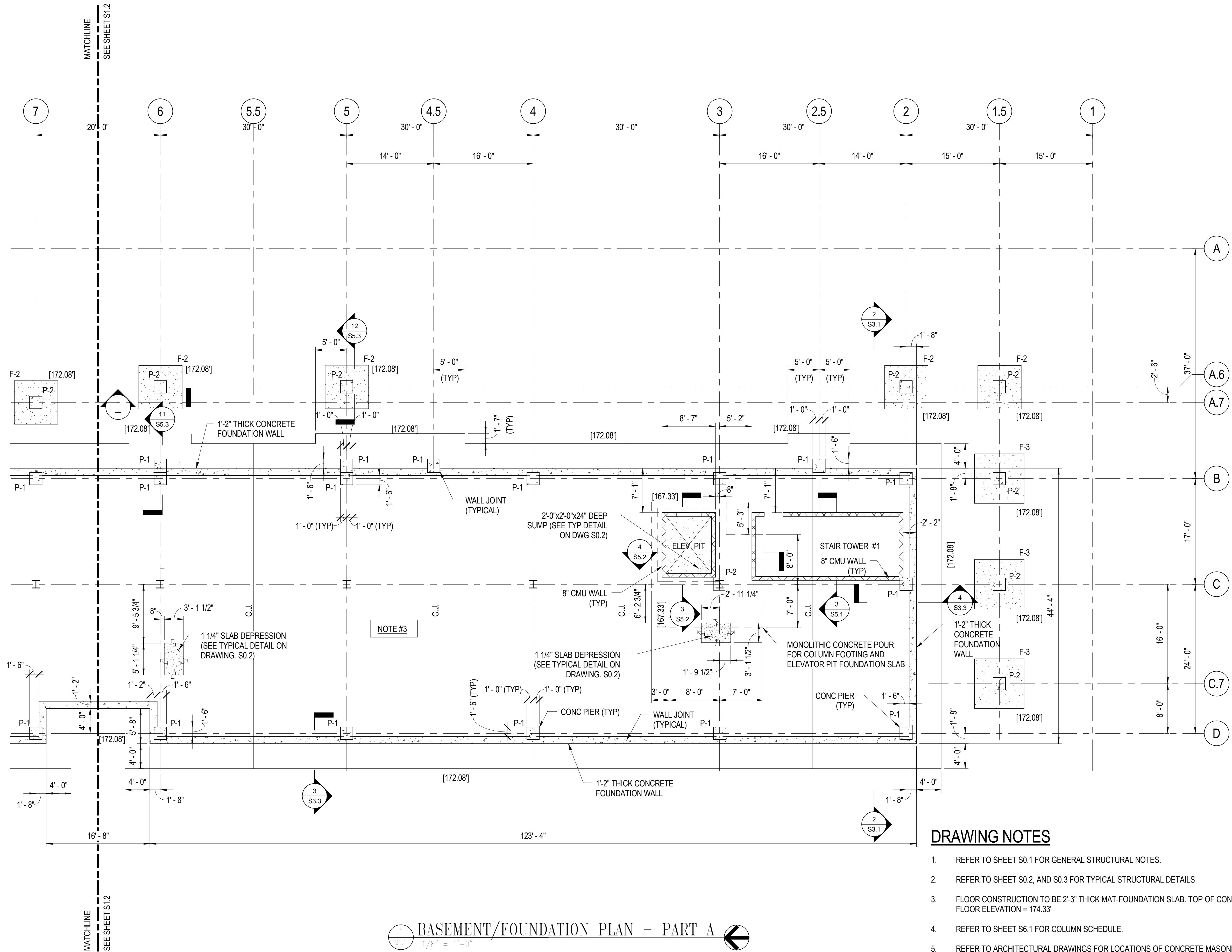
Drawing No.

S0.3

Scale: As indicated

Date: 01/25/09 Sheet 114 of 223

Des: CV Drawn: AAB Check: EF



1/8" = 1'-0" BASEMENT/FOUNDATION PLAN - PART A

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
F-1	6'-0"x6'-0"x1'-0" THICK	8-#5 BOTTOM, EACH WAY	
F-2	7'-0"x7'-0"x1'-2" THICK	10-#5 BOTTOM, EACH WAY	
F-3	8'-0"x8'-0"x1'-6" THICK	8-#6 BOTTOM, EACH WAY	

PEDESTAL/PIER SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
P-1	24"x24"	16-#8 VERT w/ #4@12 TIES	-
P-2	24"x24"	16-#8 VERT w/ #4@12 TIES	-
P-3	24"x24"	8-#8 VERT w/ #4@12 TIES	-


DRAWING NOTES

- REFER TO SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
- REFER TO SHEET S0.2, AND S0.3 FOR TYPICAL STRUCTURAL DETAILS
- FLOOR CONSTRUCTION TO BE 2'-3" THICK MAT-FOUNDATION SLAB. TOP OF CONCRETE FLOOR ELEVATION = 174.33'
- REFER TO SHEET S6.1 FOR COLUMN SCHEDULE.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CONCRETE MASONRY WALLS.
- REFER TO ARCHITECTURAL SHEET A0.1 FOR ABBREVIATIONS AND ANNOTATION SYMBOLS.

LEGEND

- [172.08] INDICATES BOTTOM OF FOOTING OR BOTTOM OF FOUNDATION ELEVATION
F-1 INDICATES A FOOTING/FOUNDATION TYPE. SEE SCHEDULE ON THIS SHEET.
P-1 INDICATES A PEDESTAL TYPE. SEE SCHEDULE ON THIS SHEET.
C.J. INDICATES A CONSTRUCTION JOINT IN THE MAT-SLAB OR FOUNDATION WALL.

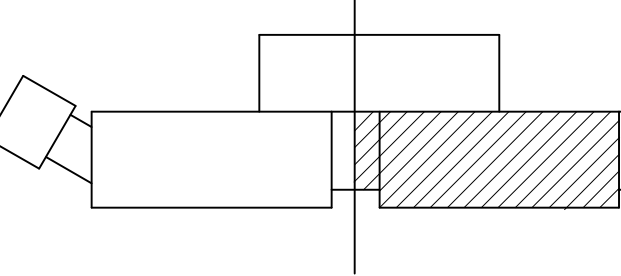
ISSUED	
35% SUBMISSION	07/06/07
95% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
BID DOCUMENTS	01/25/09



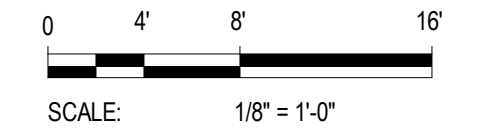
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BASEMENT/FOUNDATION PLAN
PART A

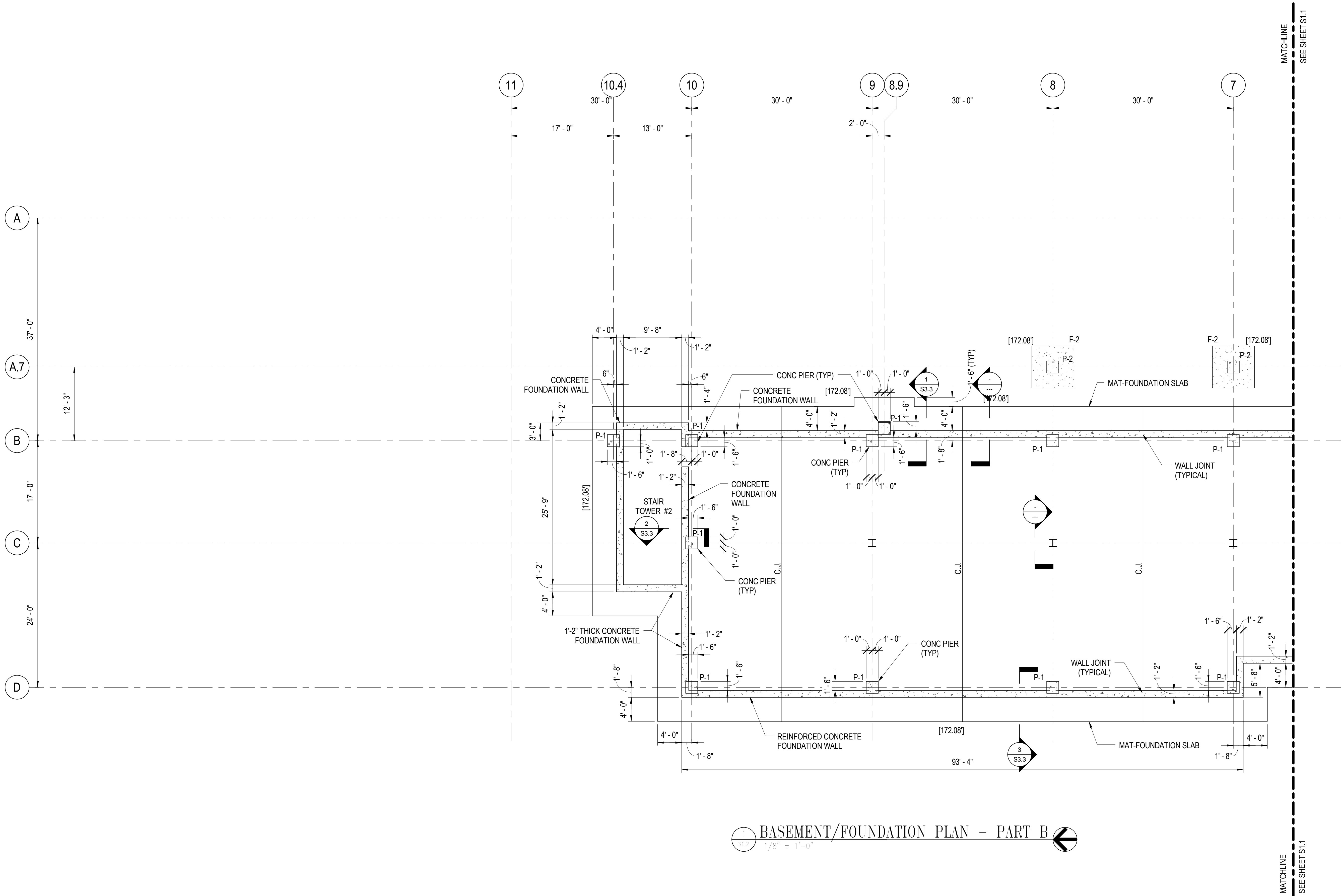
Drawing No.

S1.1

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

Date: 01/25/09 Sheet 115 of 223

Des: CV Drawn: AAB Check: EF




1
S1.2
1/8" = 1'-0"

BASEMENT/FOUNDATION PLAN - PART B

DRAWING NOTES

1. REFER TO SHEET S1.1 FOR NOTES AND STRUCTURAL LEGEND.

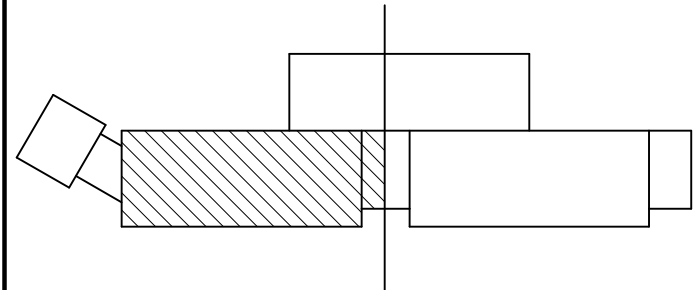
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35% SUBMISSION	07/06/07
65% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
BID DOCUMENTS	11/25/08



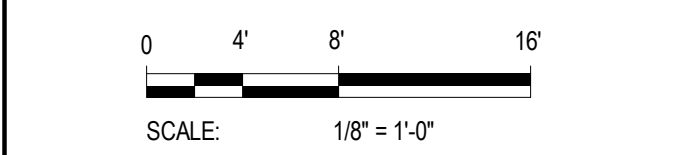
COUNTY OF KING GEORGE, VIRGINIA
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BASEMENT/FOUNDATION PLAN
PART B

Drawing No.

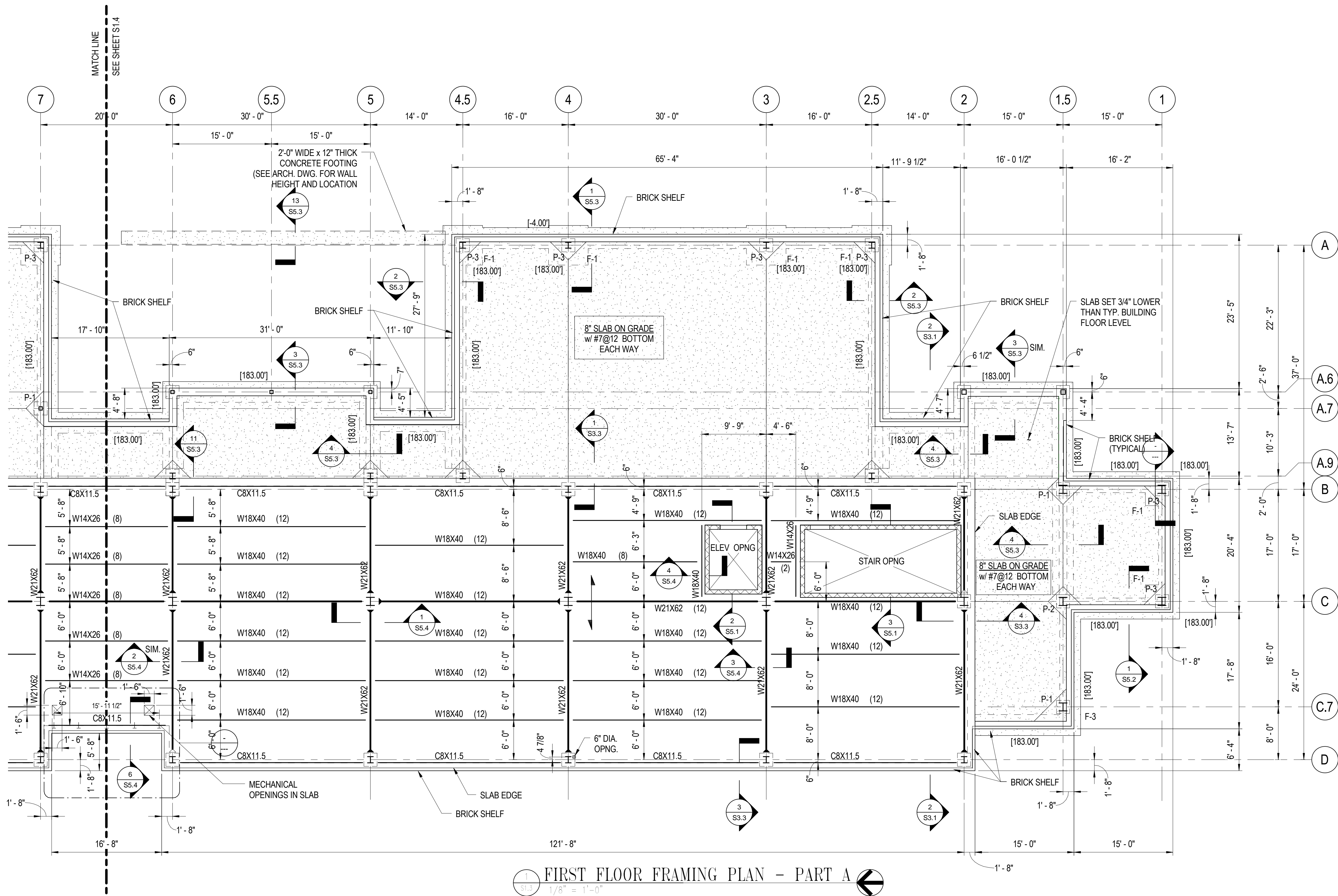
S1.2

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

Date: 01/25/09 Sheet 116 of 223

Des: CV Drawn: AAB Check: EF

1/26/2009 10:30:49 AM




STRUCTURAL LEGEND

- [183.00'] INDICATES BOTTOM OF FOOTING AND FOUNDATION ELEVATION BELOW THE TOP OF THE FIRST FLOOR SLAB.
- F-1 INDICATES A FOOTING/FOUNDATION TYPE. SEE DRAWING S1.1 FOR SCHEDULE.
- P-1 INDICATES A PIER/PEDESTAL TYPE. SEE DRAWING S1.1 FOR SCHEDULE.
- C.J. INDICATES A CONSTRUCTION JOINT IN THE SLAB OR WALL.
- INDICATES A MOMENT CONNECTION.
- INDICATES A BEAM TO BEAM SHEAR CONNECTION.
- W12X26 (12) INDICATES A COMPOSITE STEEL BEAM WITH THE REQUIRED NUMBER OF SHEAR CONNECTORS TO BE INSTALLED AT EQUAL SPACING ON THE BEAM.
- INDICATES THE SPAN DIRECTION OF THE METAL DECK.

DRAWING NOTES

- REFER TO SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
- REFER TO SHEET S0.2, AND S0.3 FOR TYPICAL STRUCTURAL DETAILS
- REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS OF MASONRY WALLS AND WALL OPENINGS. PROVIDE DOWELS TO MATCH THE WALL REINFORCING SIZE AND SPACING.
- REFER TO MECHANICAL DRAWINGS FOR THE LOCATIONS OF FLOOR OPENINGS.
- TOP OF STEEL BEAM ELEVATION = 186.54' UNLESS OTHERWISE NOTED THUS (+/-).
- REFER TO SHEET S6.1 FOR COLUMN, PIER/PEDESTAL AND FOOTING SCHEDULES.
- COMPOSITE FLOOR CONSTRUCTION CONSIST OF A 2", 18 GAUGE STEEL DECK, WITH A 3 1/2" CONCRETE TOPPING REINFORCED WITH 6X6-W2.9 x W2.9 WELDED WIRE FABRIC POSITIONED 1" BELOW THE TOP OF THE SLAB. PROVIDE 3/4" DIAMETER x 4 1/2" LONG, SHEAR CONNECTORS (STUDS), SPACED EQUALLY ALONG THE BEAMS INDICATED. TOP OF CONCRETE FINISH FLOOR ELEVATION = 187.00'
- SLAB-ON-GRADE FLOOR CONSTRUCTION CONSISTS OF AN 8-INCHES THICK CONCRETE SLAB REINFORCED WITH #7 REBARS, BOTTOM SPACED AT 12-INCHES ON CENTER, AND 6X6-W2.9XW2.9 WELDED WIRE FABRIC PLACED 1 INCH BELOW THE TOP OF THE SLAB.

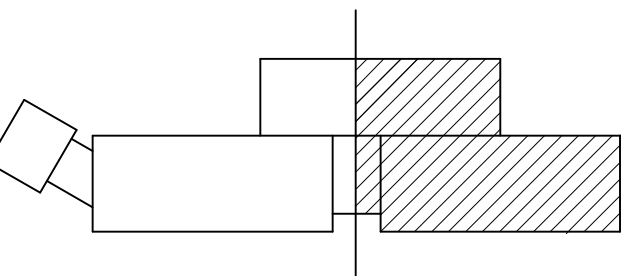
ISSUED	
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95% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
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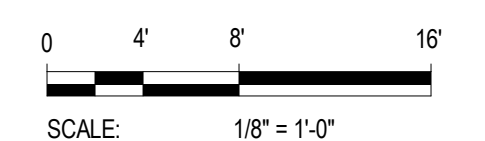
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GRAPHIC SCALES



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

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FIRST FLOOR FRAMING PLAN
PART A

Drawing No.

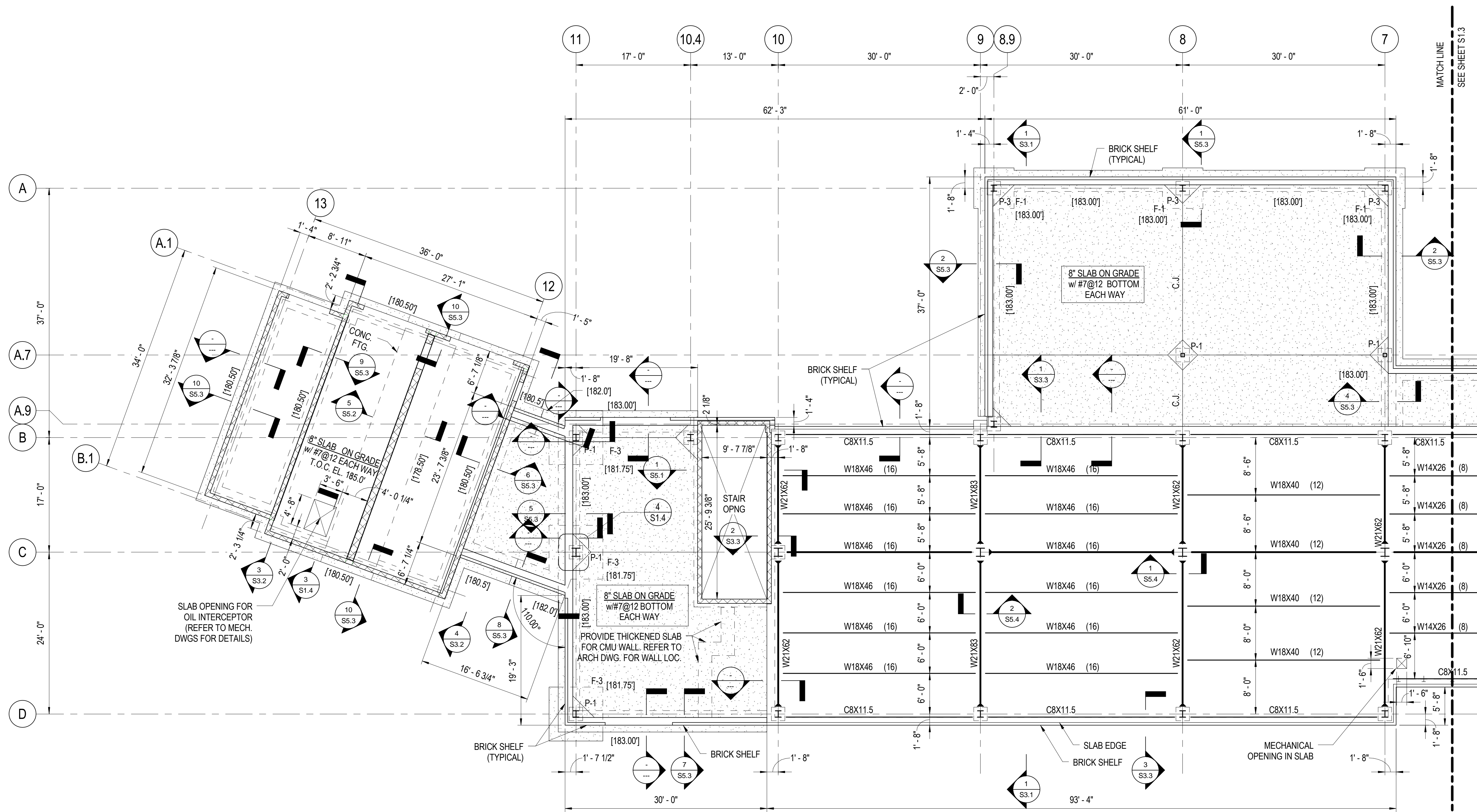
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Scale: 1/8" = 1'-0"

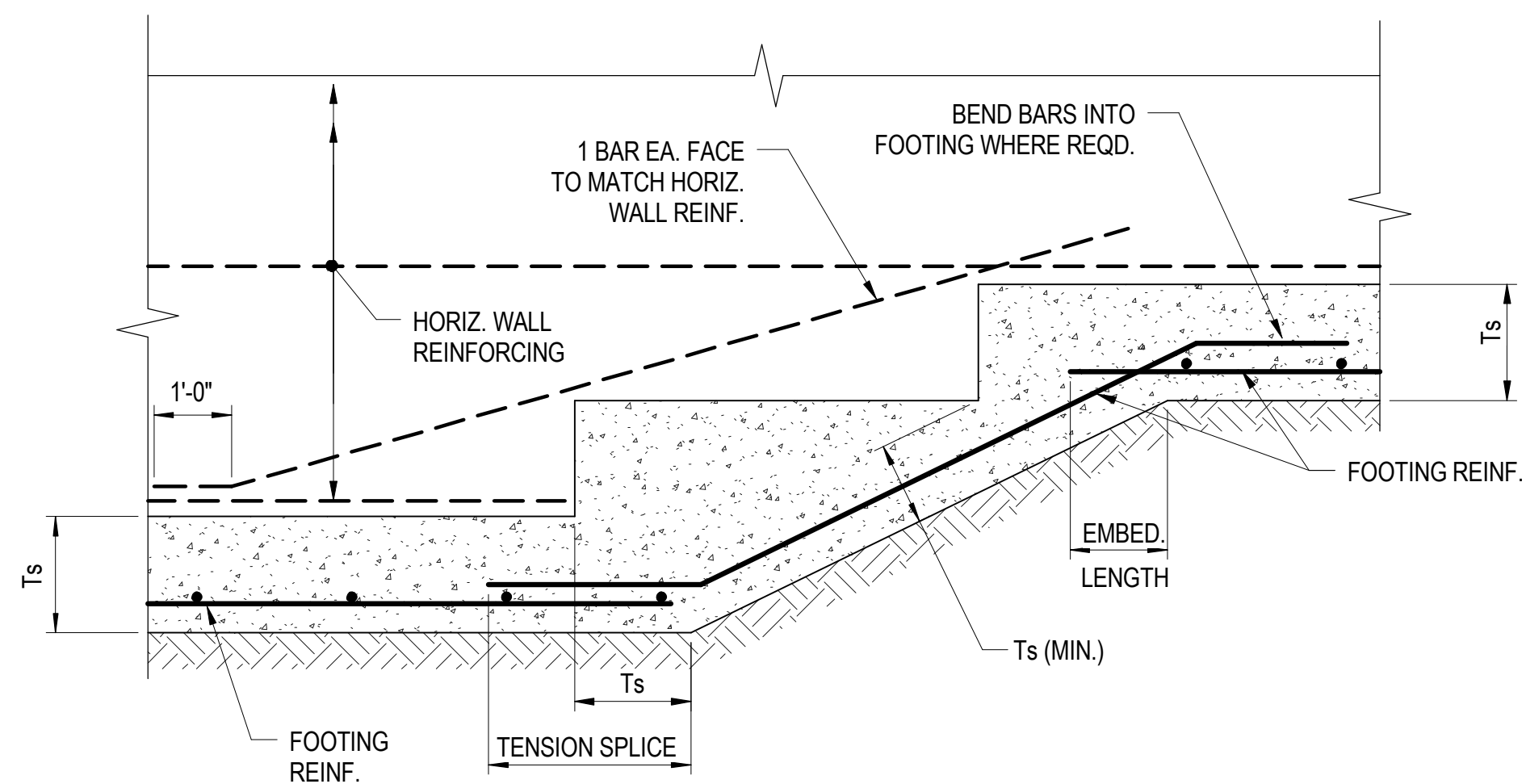
Date: 01/25/09 Sheet 117 of 223

Des: CV Drawn: AAB Check: EF

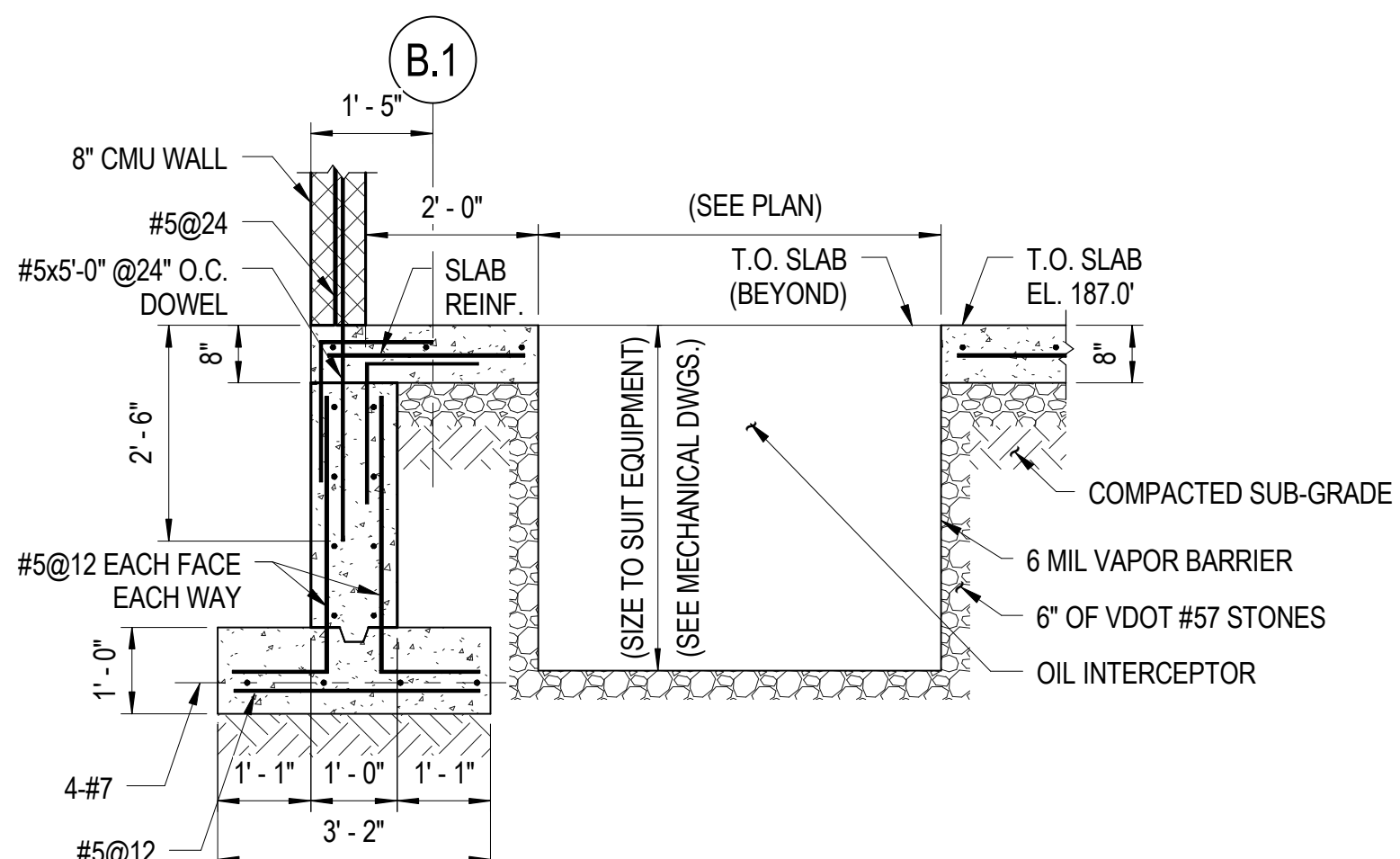
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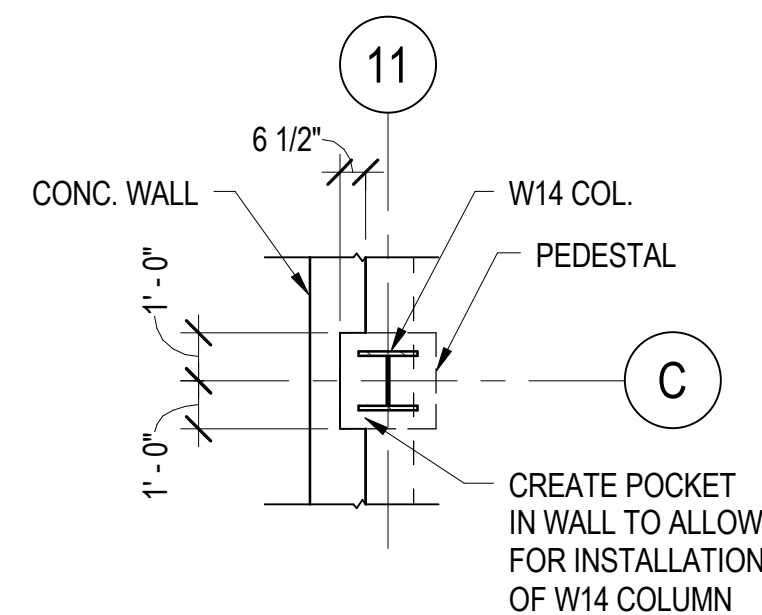
1
S1.4
1/8" = 1'-0"



2
S1.4
NO SCALE



3
S1.4
1/2" = 1'-0"



4
S1.4
1/4" = 1'-0"

DRAWING NOTES
1. REFER TO SHEET S1.3 FOR NOTES AND STRUCTURAL LEGEND.

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KEY PLAN

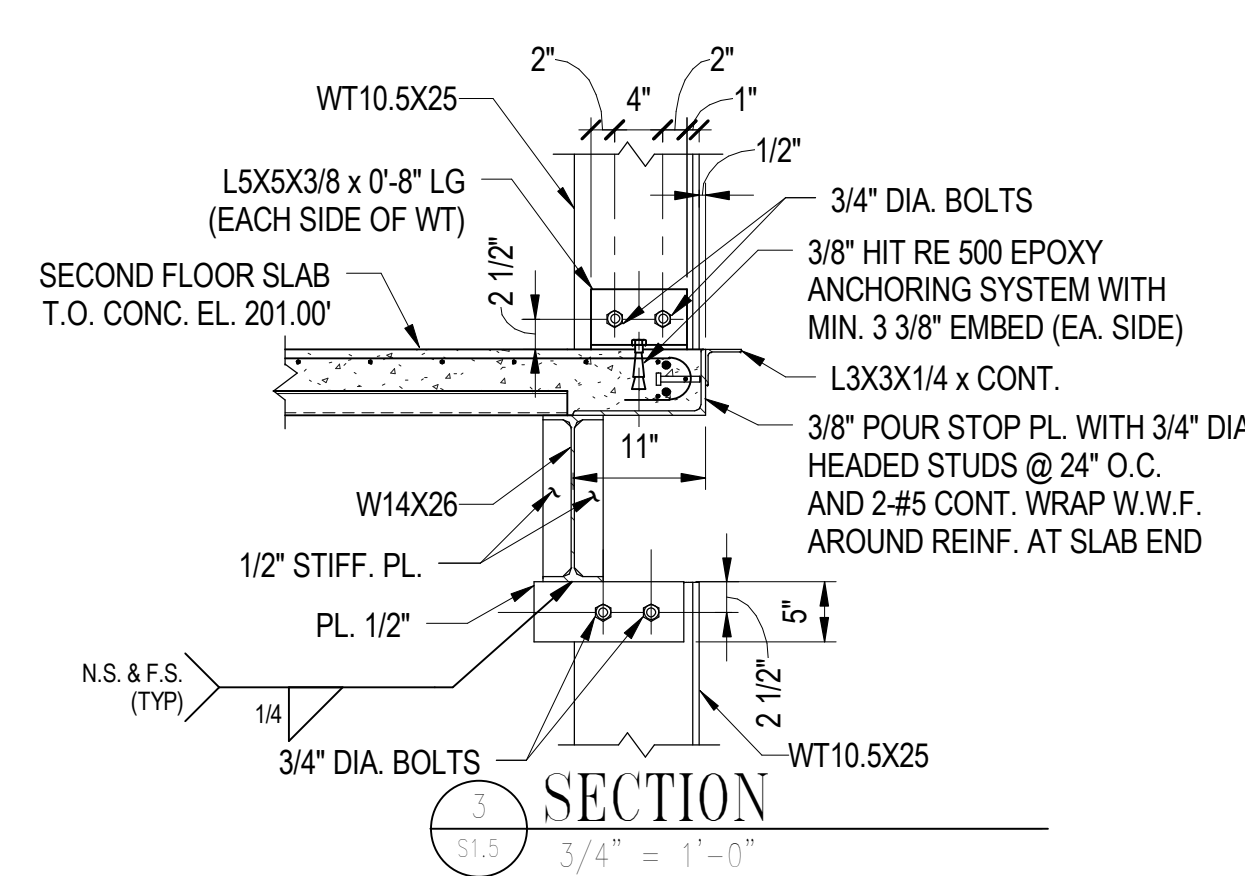
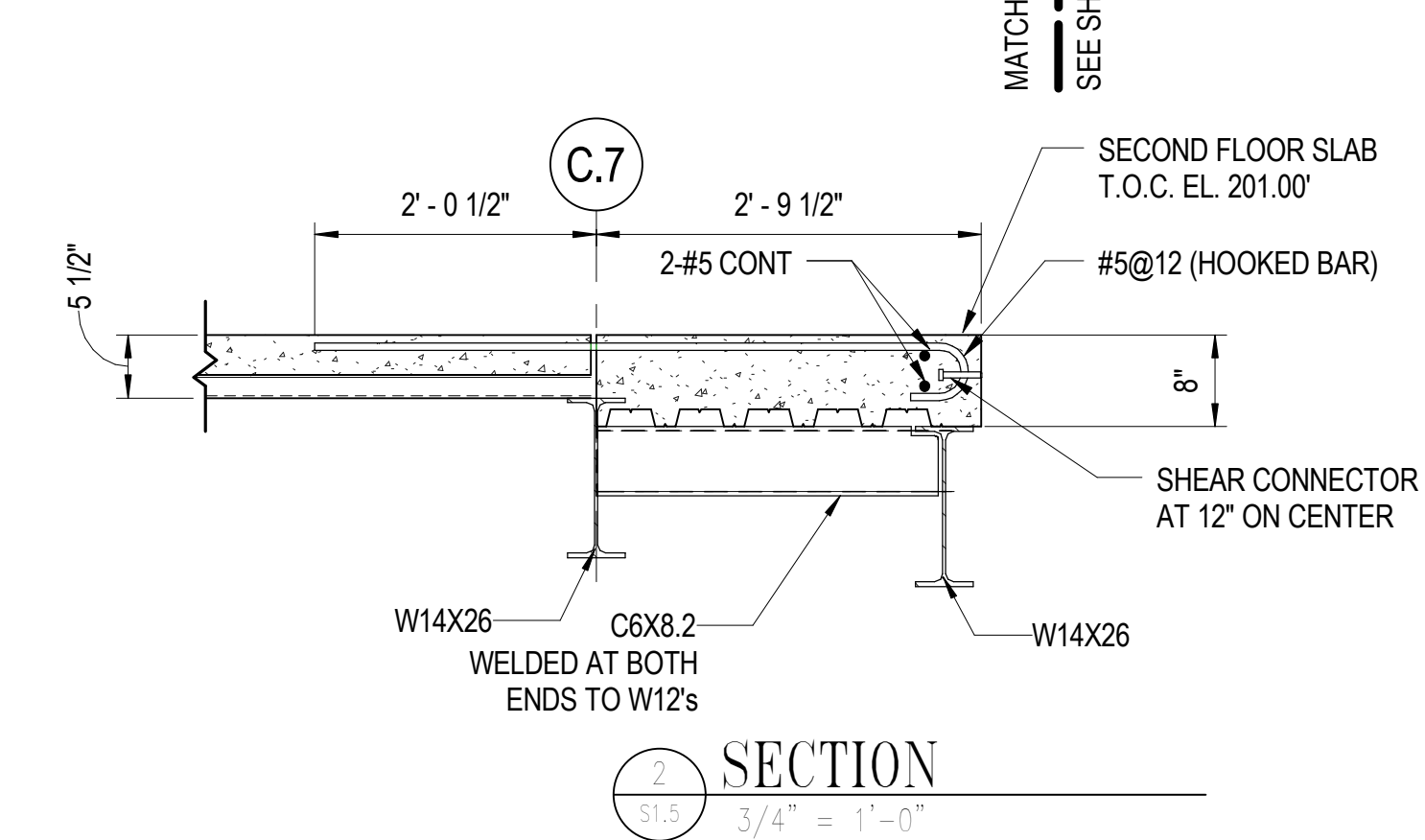
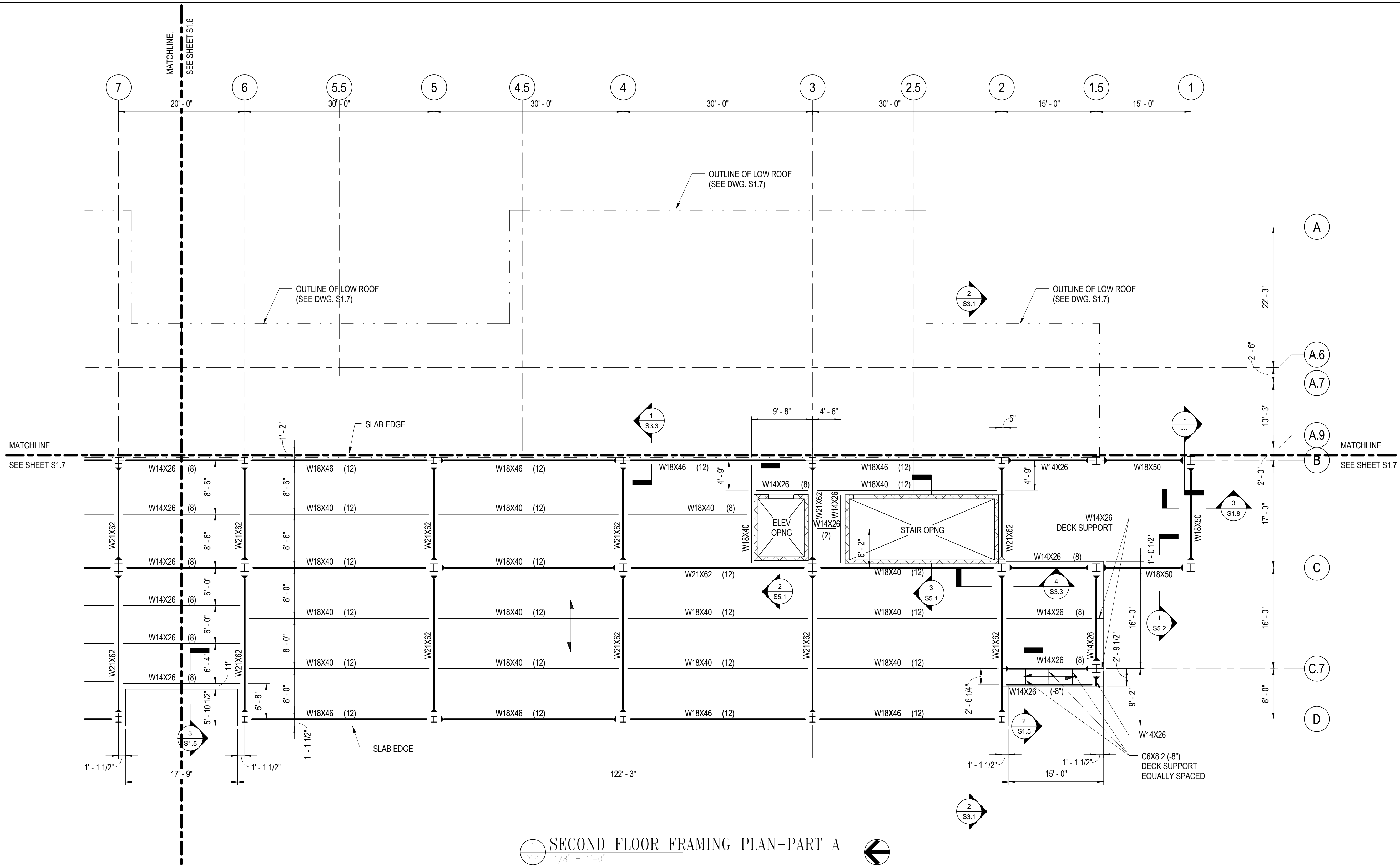
GRAPHIC SCALES
0 4' 8' 16'
SCALE: 1/8" = 1'-0"
0 2' 4' 8'
SCALE: 1/4" = 1'-0"
0 1' 2' 4'
SCALE: 1/2" = 1'-0"

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FIRST FLOOR FRAMING PLAN PART B		
Drawing No.		
S1.4		
Scale: As indicated		
Date: 01/25/09	Sheet 118 of 223	
Des: CV	Drawn: AAB	Check: EF

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STRUCTURAL LEGEND

- INDICATES A MOMENT CONNECTION.
- INDICATES A BEAM TO BEAM SHEAR CONNECTION.
- INDICATES A COMPOSITE STEEL BEAM WITH THE REQUIRED NUMBER OF SHEAR CONNECTORS TO BE INSTALLED AT EQUAL SPACING ALONG THE BEAM.
- INDICATES THE SPAN DIRECTION OF THE METAL DECK.

DRAWING NOTES

- REFER TO SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
- REFER TO SHEET S0.2, AND S0.3 FOR TYPICAL STRUCTURAL DETAILS
- REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS OF MASONRY WALLS AND WALL OPENINGS. PROVIDE DOWELS TO MATCH THE WALL REINFORCING SIZE AND SPACING.
- REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF FLOOR OPENINGS.
- TOP OF STEEL BEAM ELEVATION = 200.54' UNLESS OTHERWISE NOTED THUS (+/-).
- REFER TO SHEET S6.1 FOR COLUMN SCHEDULE.
- COMPOSITE FLOOR CONSTRUCTION CONSIST OF A 2" x 18 GAUGE METAL DECK, WITH A 3-1/2" CONCRETE TOPPING, REINFORCED WITH 6x6-W2.9 x W2.9 WELDED WIRE FABRIC POSITIONED 1" BELOW THE TOP OF THE SLAB. PROVIDE 3/4" DIAMETER x 4 1/2" LONG, SHEAR CONNECTORS (STUDS), SPACED EQUALLY ALONG THE BEAMS INDICATED. TOP OF CONCRETE FINISH FLOOR ELEVATION = 201.00'

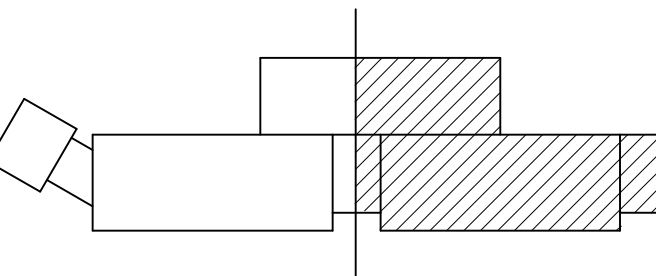
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35% SUBMISSION	07/06/07
65% SUBMISSION	04/14/08
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BID DOCUMENTS	01/25/09



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GRAPHIC SCALES

0 4' 8' 16'

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


0 1' 2' 3'

SCALE: 3/4" = 1'-0"

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SECOND FLOOR FRAMING PLAN
PART A

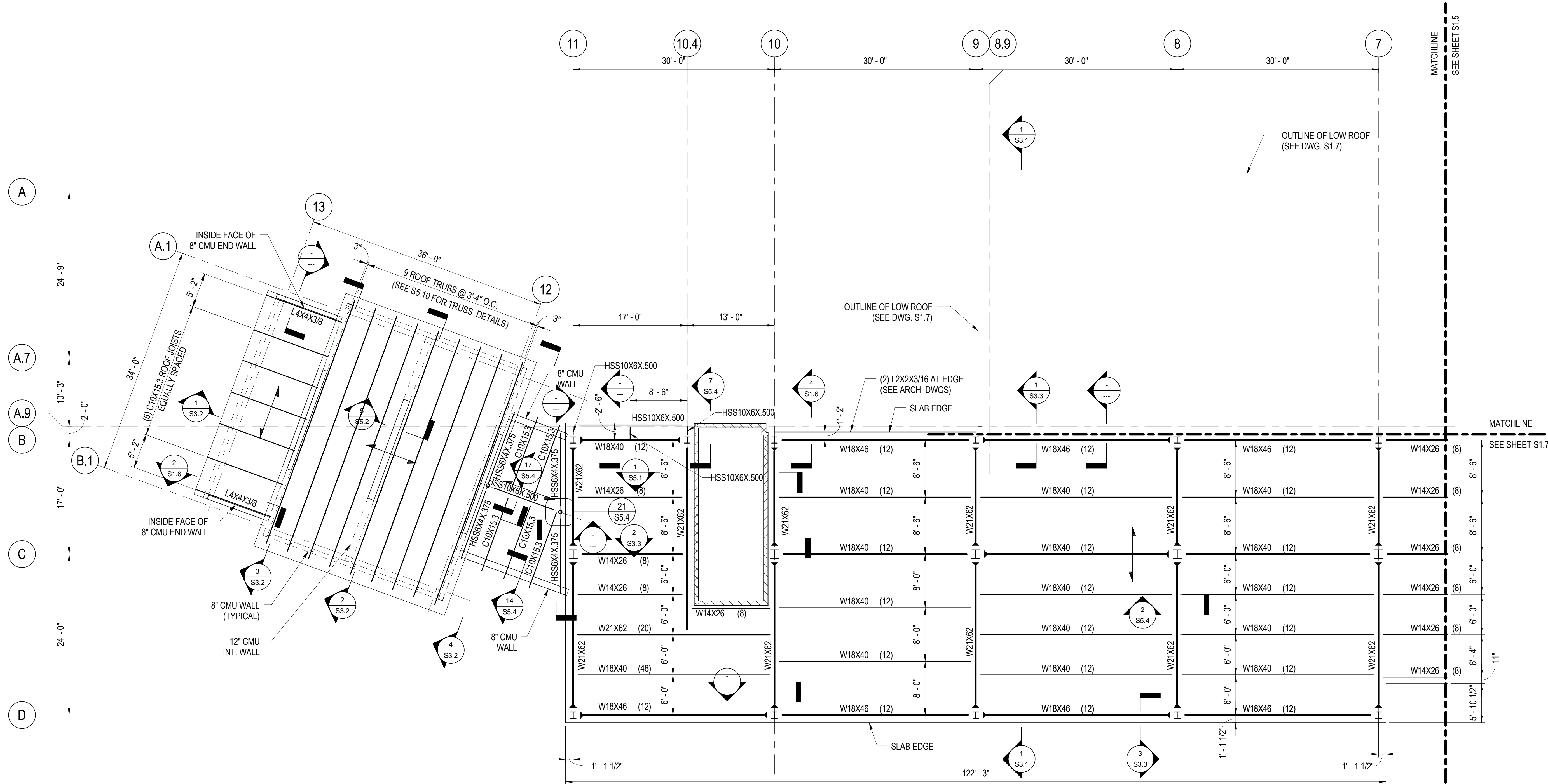
Drawing No.

S1.5

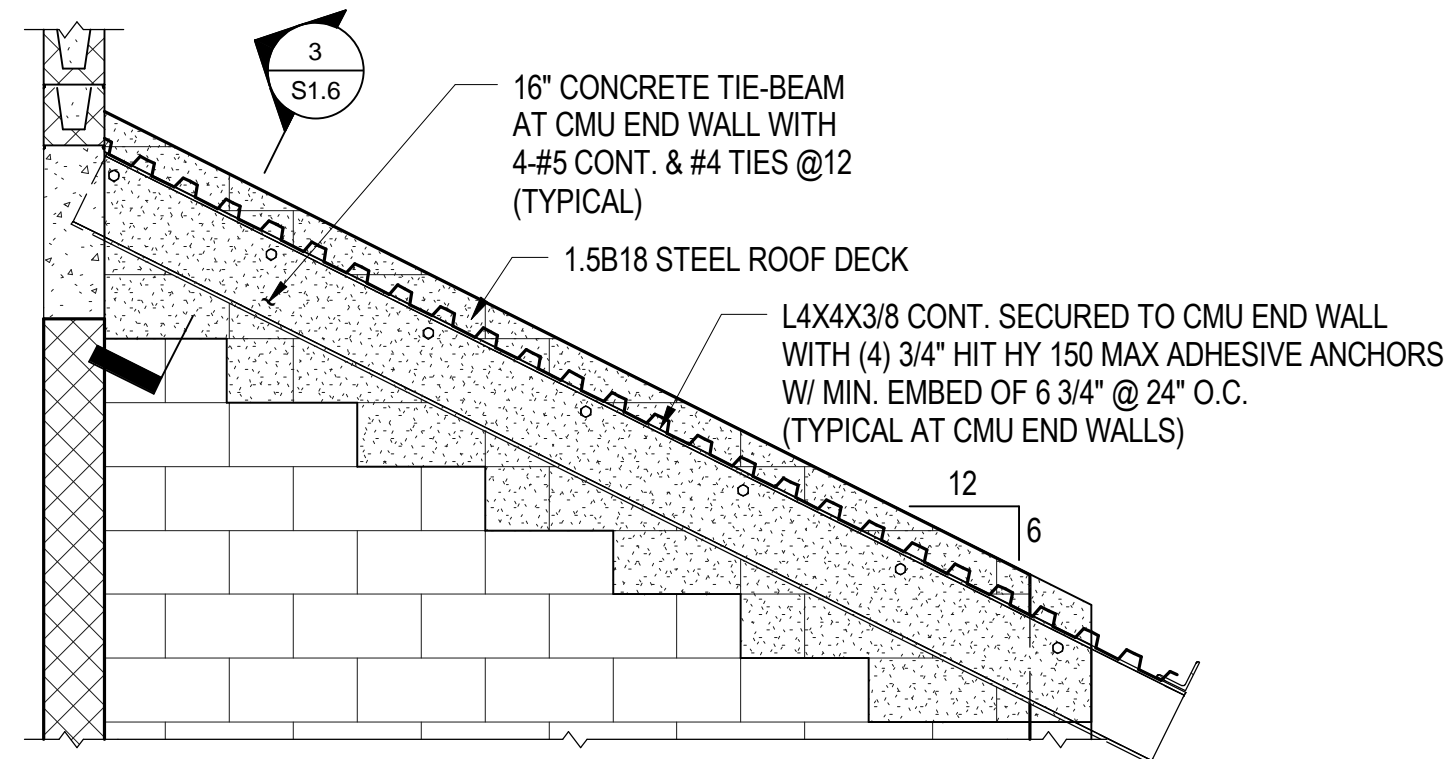
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Date: 01/25/09 Sheet 119 of 223

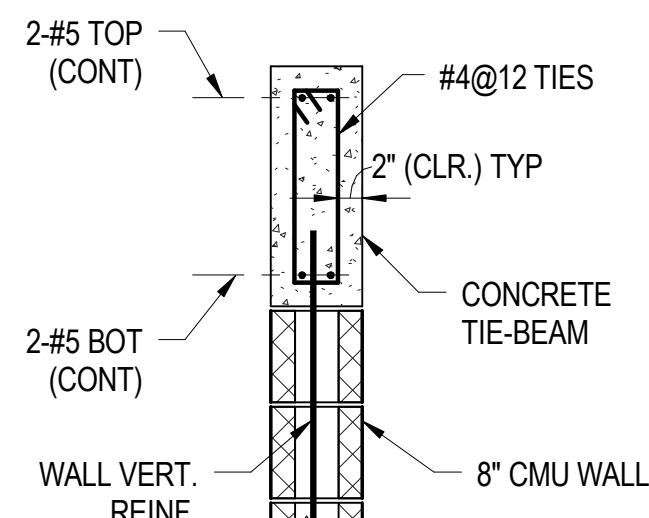
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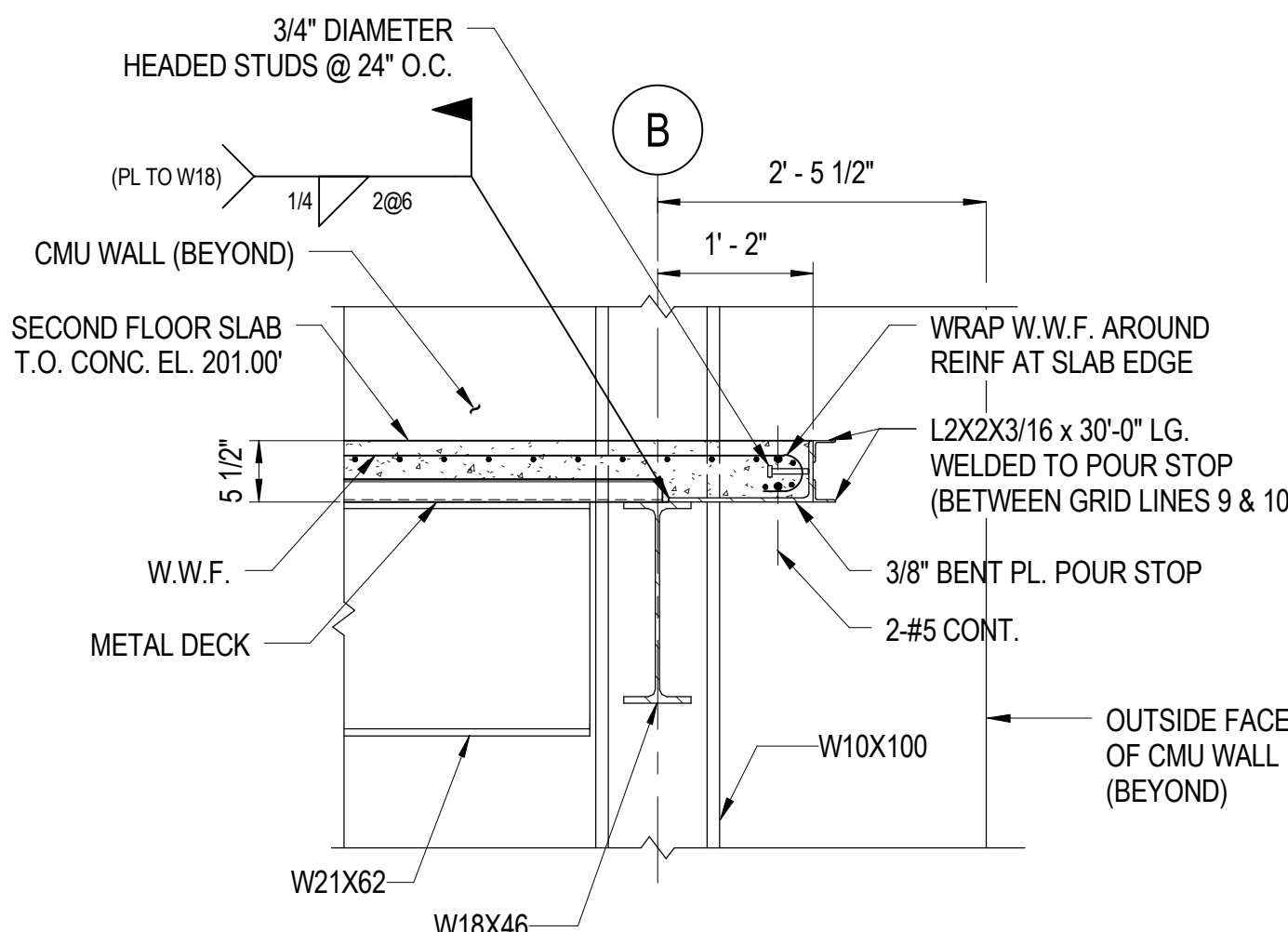
SECOND FLOOR FRAMING PLAN-PART B
1/8" = 1'-0"



SECTION
1/2" = 1'-0"



SECTION
3/4" = 1'-0"



SECTION
3/4" = 1'-0"

DRAWING NOTES

- REFER TO SHEET S1.5 FOR SECOND FLOOR FRAMING PLAN DRAWING NOTES, AND STRUCTURAL LEGEND.
- STORAGE GARAGE ROOF CONSTRUCTION CONSISTS OF 1.5", 18 GAUGE STEEL ROOF DECK OVER ROOF FRAMING.

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65% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
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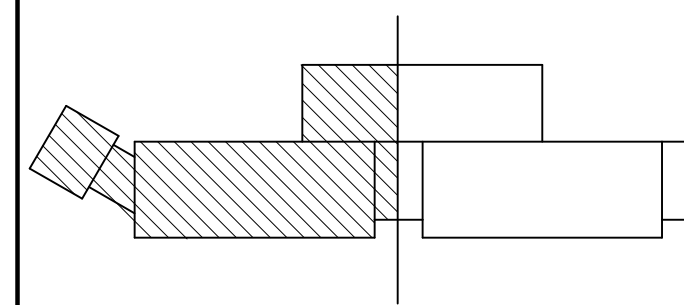


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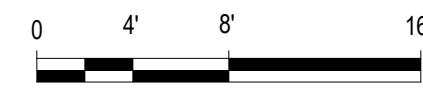
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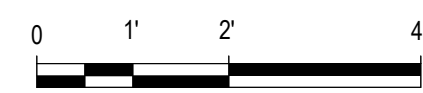
KEY PLAN



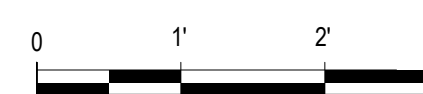
GRAPHIC SCALES



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



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



SCALE: 3/4" = 1'-0"

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SECOND FLOOR FRAMING PLAN
PART B

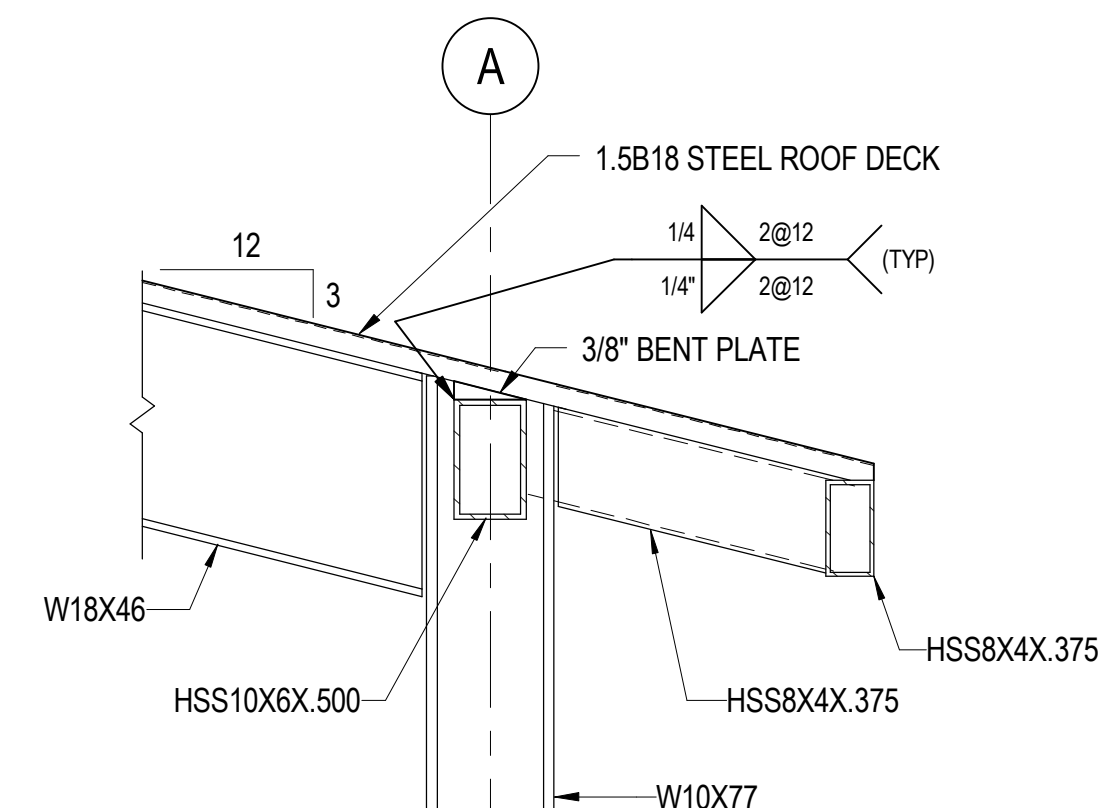
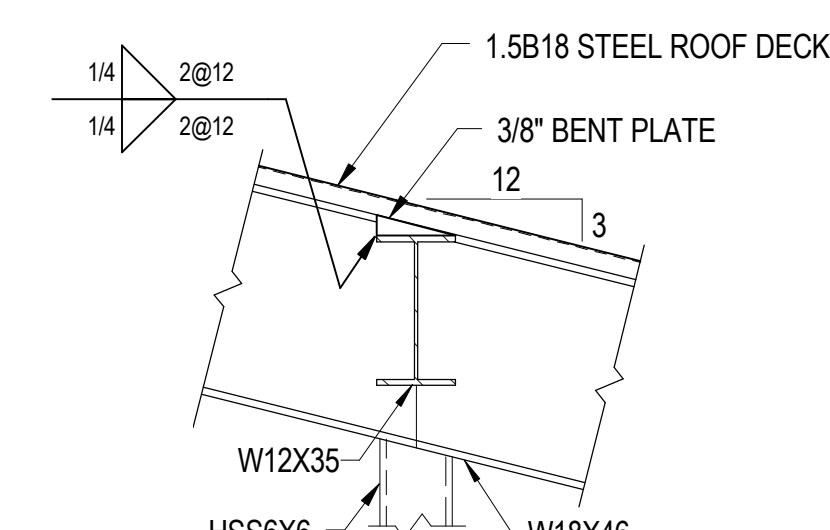
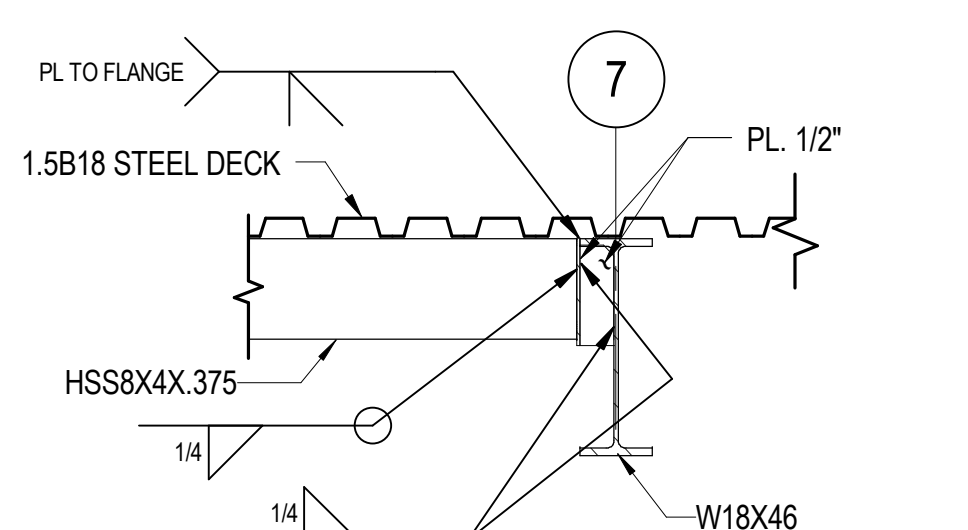
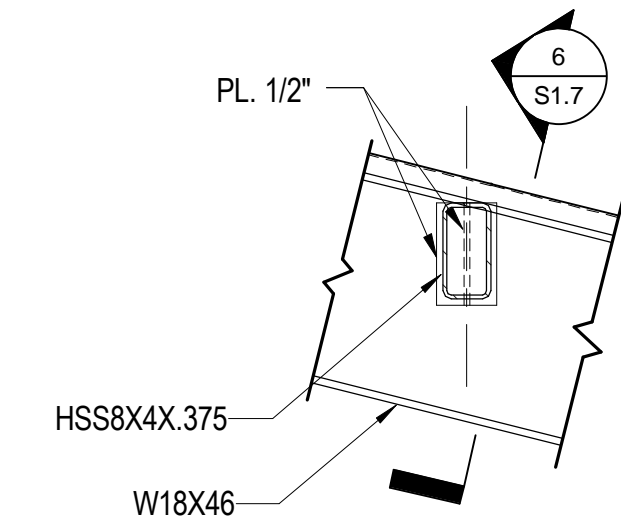
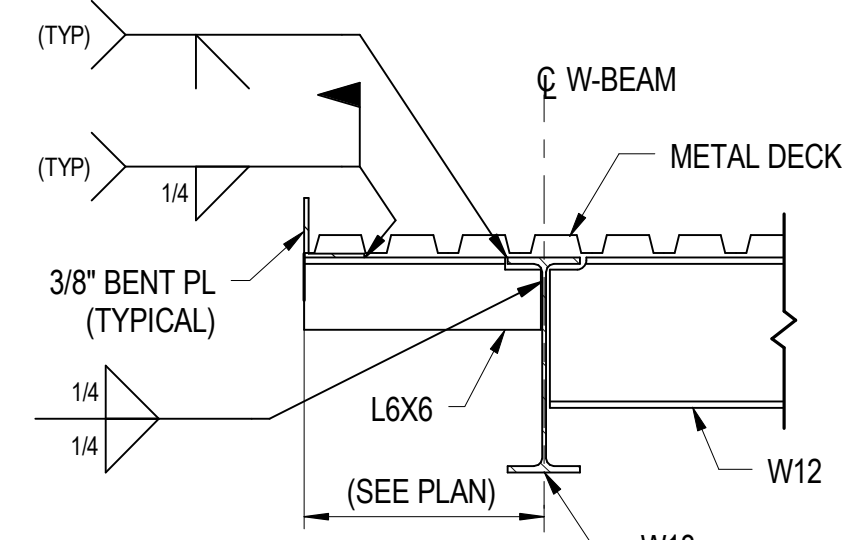
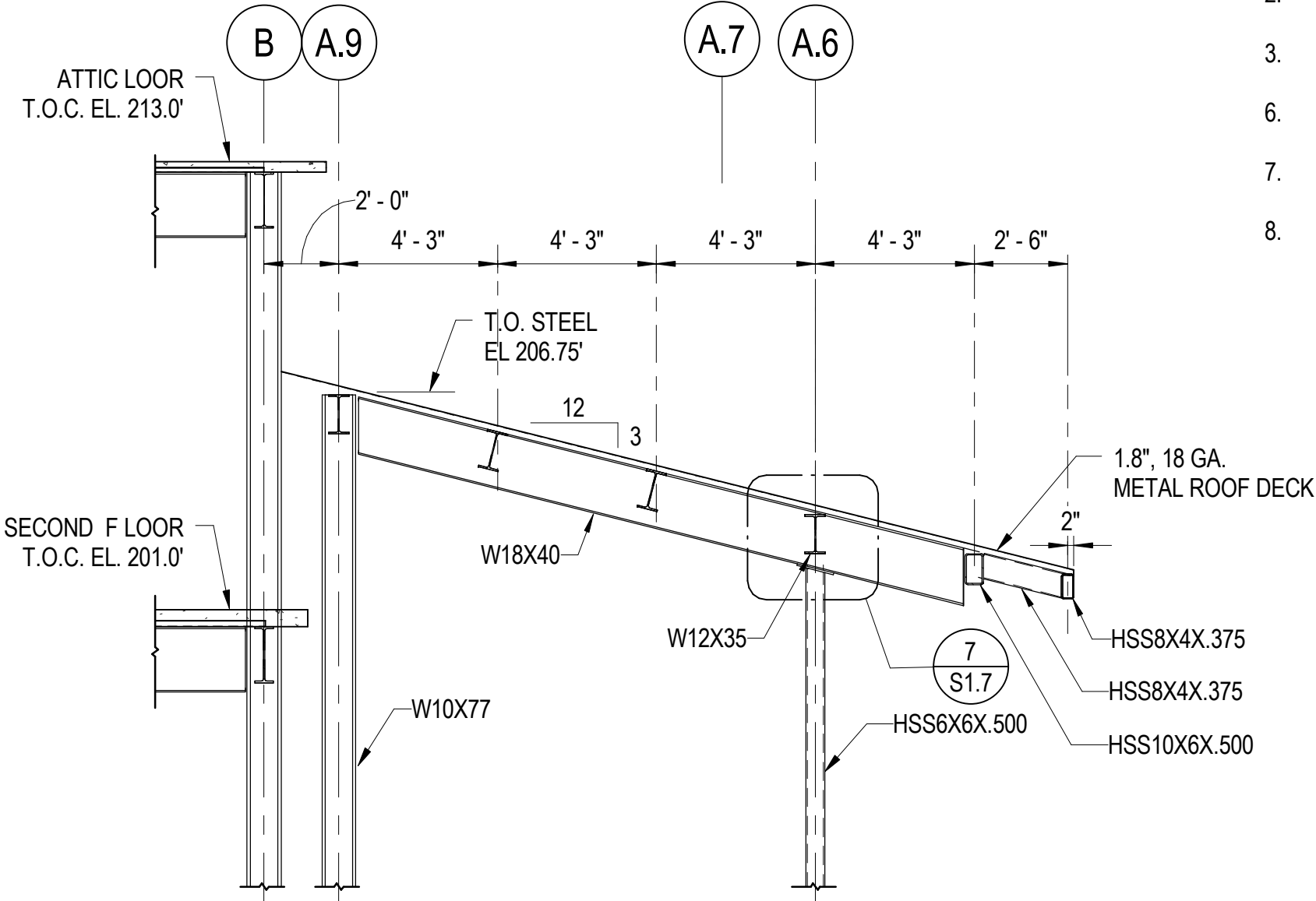
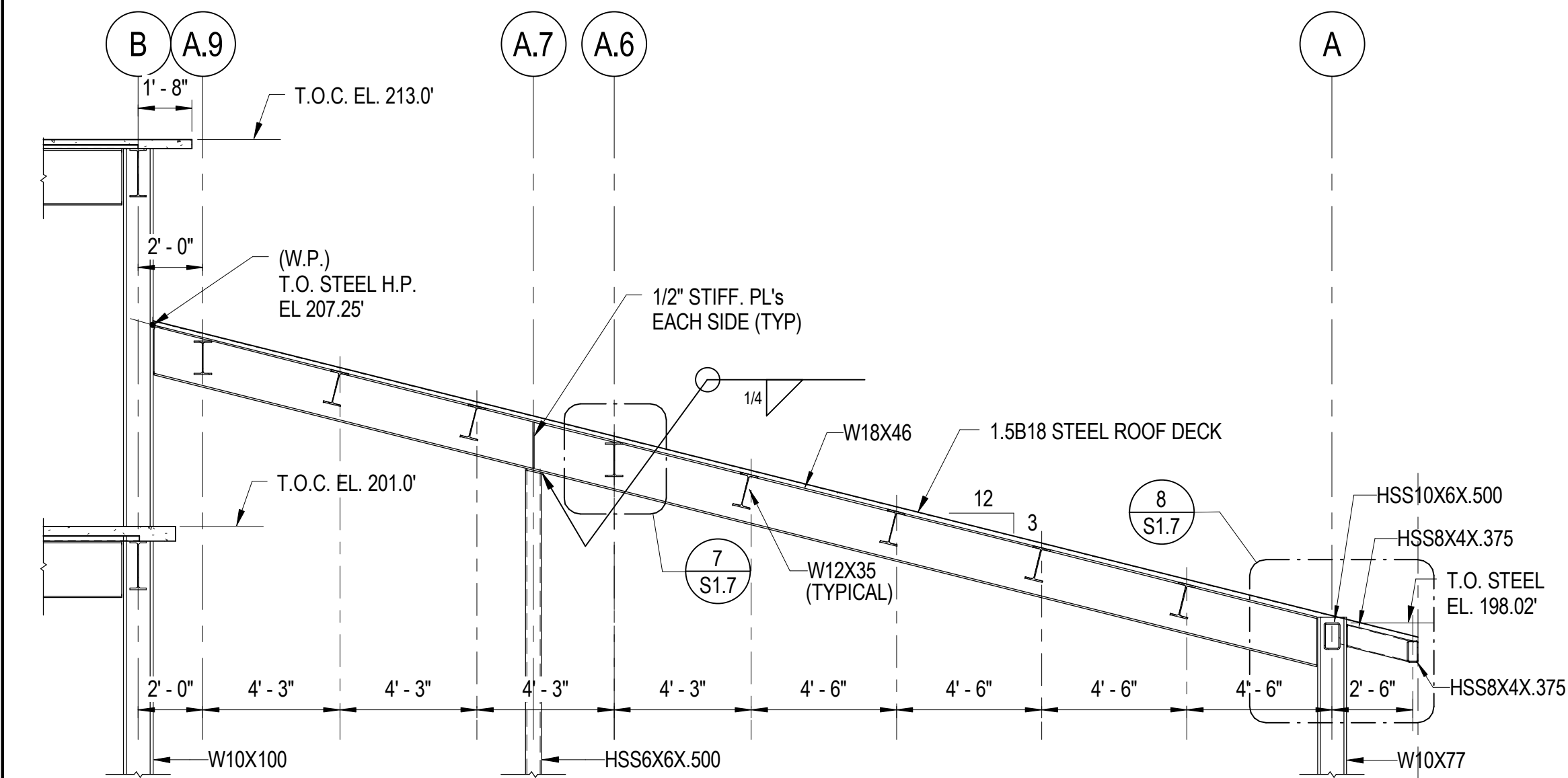
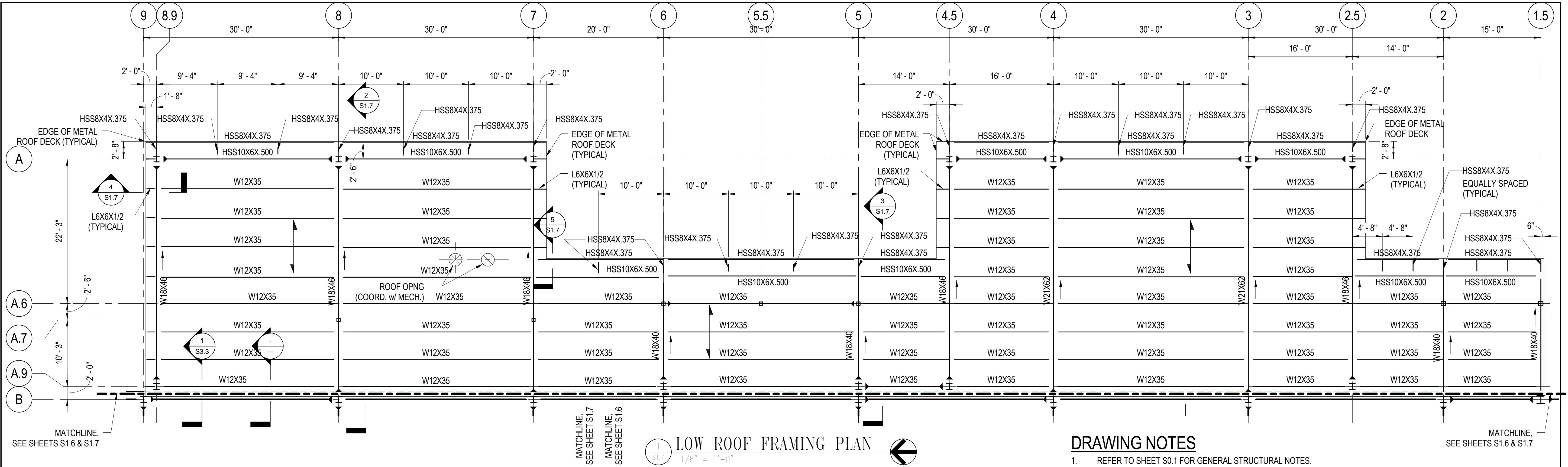
Drawing No.

S1.6

Scale: As indicated

Date: 01/25/09 Sheet 120 of 223


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DRAWING NOTES

1. REFER TO SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
2. REFER TO SHEET S0.2, AND S0.3 FOR TYPICAL STRUCTURAL DETAILS
3. REFER TO MECHANICAL DRAWINGS FOR THE LOCATIONS OF ROOF OPENINGS.
6. REFER TO SHEET S6.1 FOR COLUMN SCHEDULE.
7. ROOF CONSTRUCTION CONSISTS OF A 1.5", 18 GAUGE METAL DECK OVER ROOF FRAMING.
8. REFER TO SHEET S1.8 FOR STRUCTURAL LEGEND.

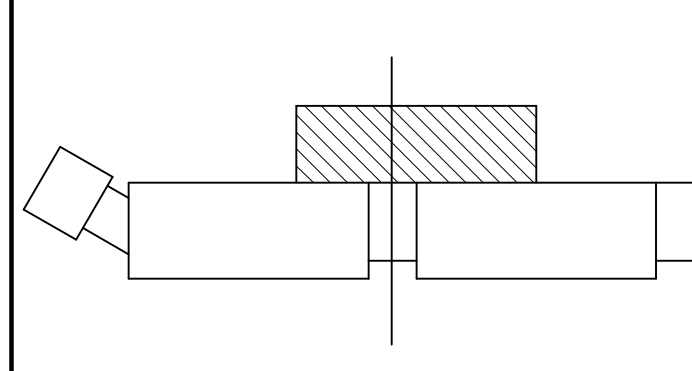
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35% SUBMISSION	07/06/07
95% SUBMISSION	04/14/08
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BID DOCUMENTS	01/25/09



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KEY PLAN



GRAPHIC SCALES

0 4' 8' 16'

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

0 2' 4' 8'

SCALE: 1/4" = 1'-0"

0 1' 2' 3'

SCALE: 3/4" = 1'-0"

SIGNATURE

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LOW ROOF FRAMING PLAN AND SECTIONS

Drawing No.

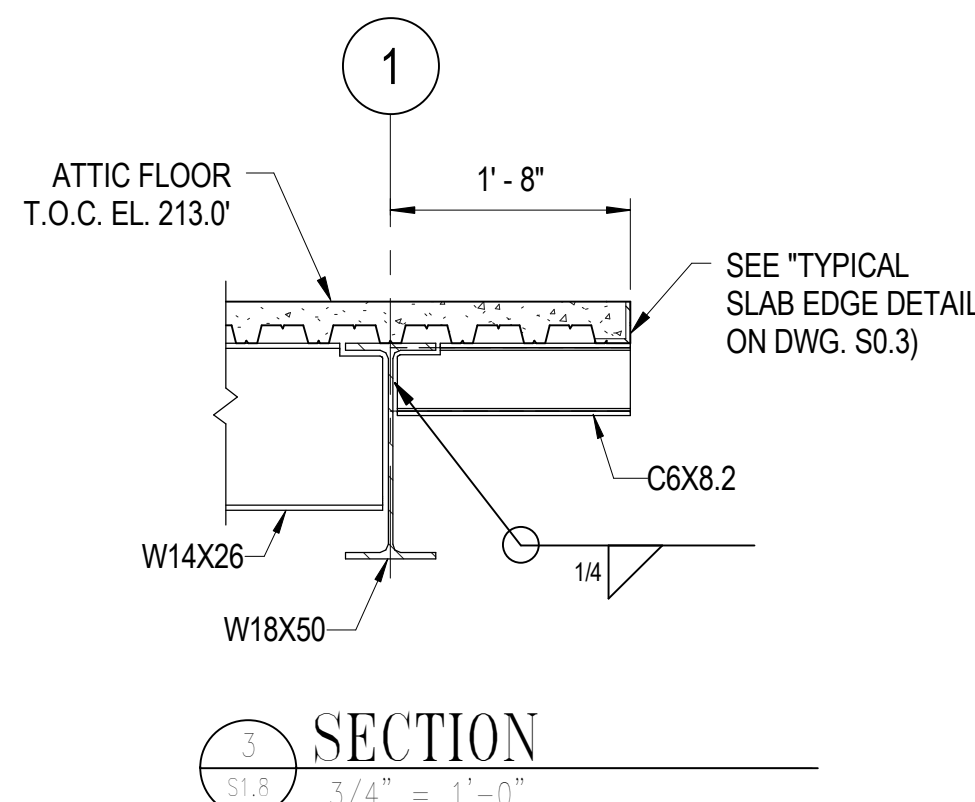
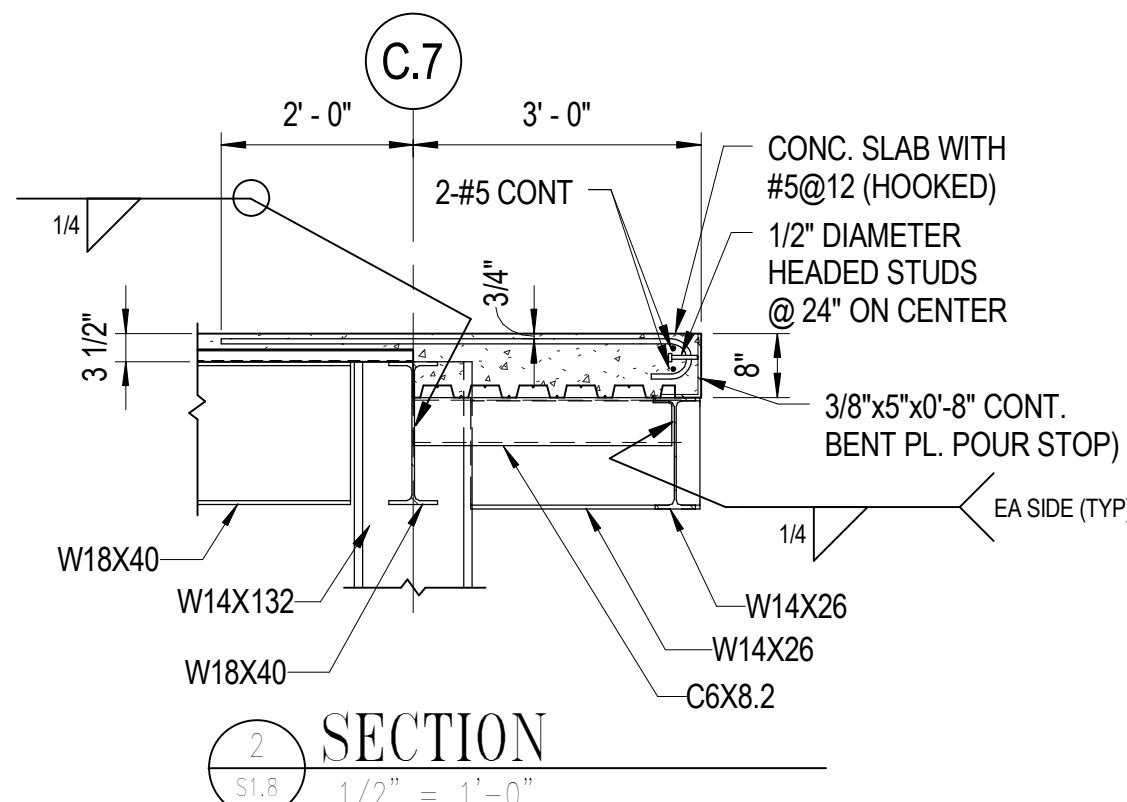
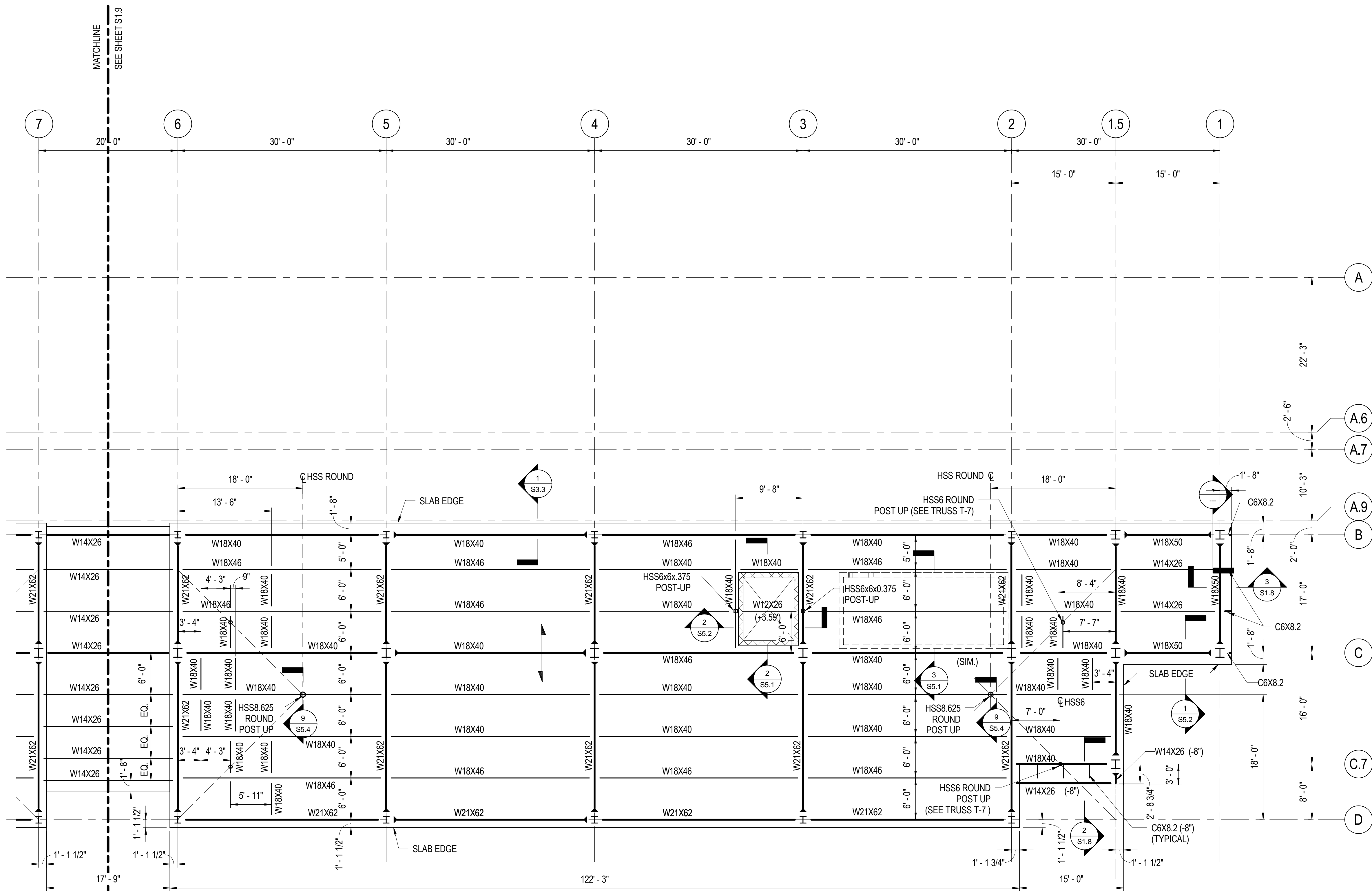
S1.7

Scale: As indicated

Date: 01/25/09 Sheet 121 of 223

Des: CV Drawn: AAB Check: EF

1/26/2009 10:30:58 AM



ATTIC FLOOR FRAMING PLAN - PART A

DRAWING NOTES


- REFER TO SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
- REFER TO SHEET S0.2, AND S0.3 FOR TYPICAL STRUCTURAL DETAILS
- REFER TO MECHANICAL DRAWINGS FOR THE LOCATIONS OF FLOOR OPENINGS.
- TOP OF STEEL BEAM ELEVATION = 212.54' UNLESS OTHERWISE NOTED THUS (+/-).
- REFER TO SHEET S6.1 FOR COLUMN SCHEDULE.
- COMPOSITE FLOOR CONSTRUCTION CONSIST OF A 1.5", 18 GAUGE METAL DECK, WITH A 2" CONCRETE TOPPING REINFORCED WITH 6x6-W2.9 x W2.9 WELDED WIRE FABRIC POSITIONED 1" BELOW THE TOP OF THE SLAB. TOP OF CONCRETE FINISH FLOOR ELEVATION = 213.00'
- PROVIDE 3/4" DIAMETER HEADED STUDS AT 36 INCHES ON CENTER MAXIMUM PER BEAM, THIS LEVEL ONLY, OR 2 STUDS PER BEAM MINIMUM, WHICHEVER CONTROLS.

STRUCTURAL LEGEND

- INDICATES A MOMENT CONNECTION.
- INDICATES A BEAM TO BEAM SHEAR CONNECTION.
- INDICATES THE SPAN DIRECTION OF THE METAL DECK.

W12X26 (+3.13') INDICATES THE TOP OF STEEL ELEVATION ABOVE THE TOP OF FLOOR FRAMING ELEVATION INDICATED IN NOTE 5 ABOVE.

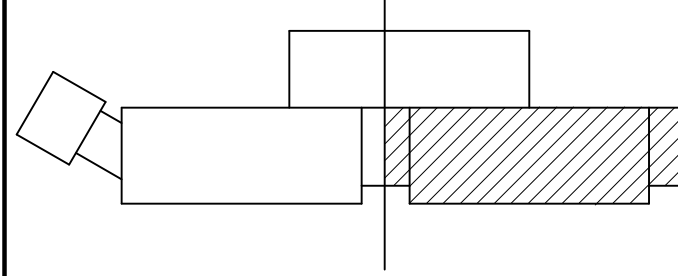
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65% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
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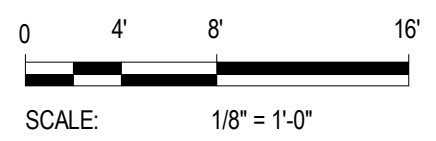
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KEY PLAN



GRAPHIC SCALES



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ATTIC FLOOR FRAMING PLAN
PART A

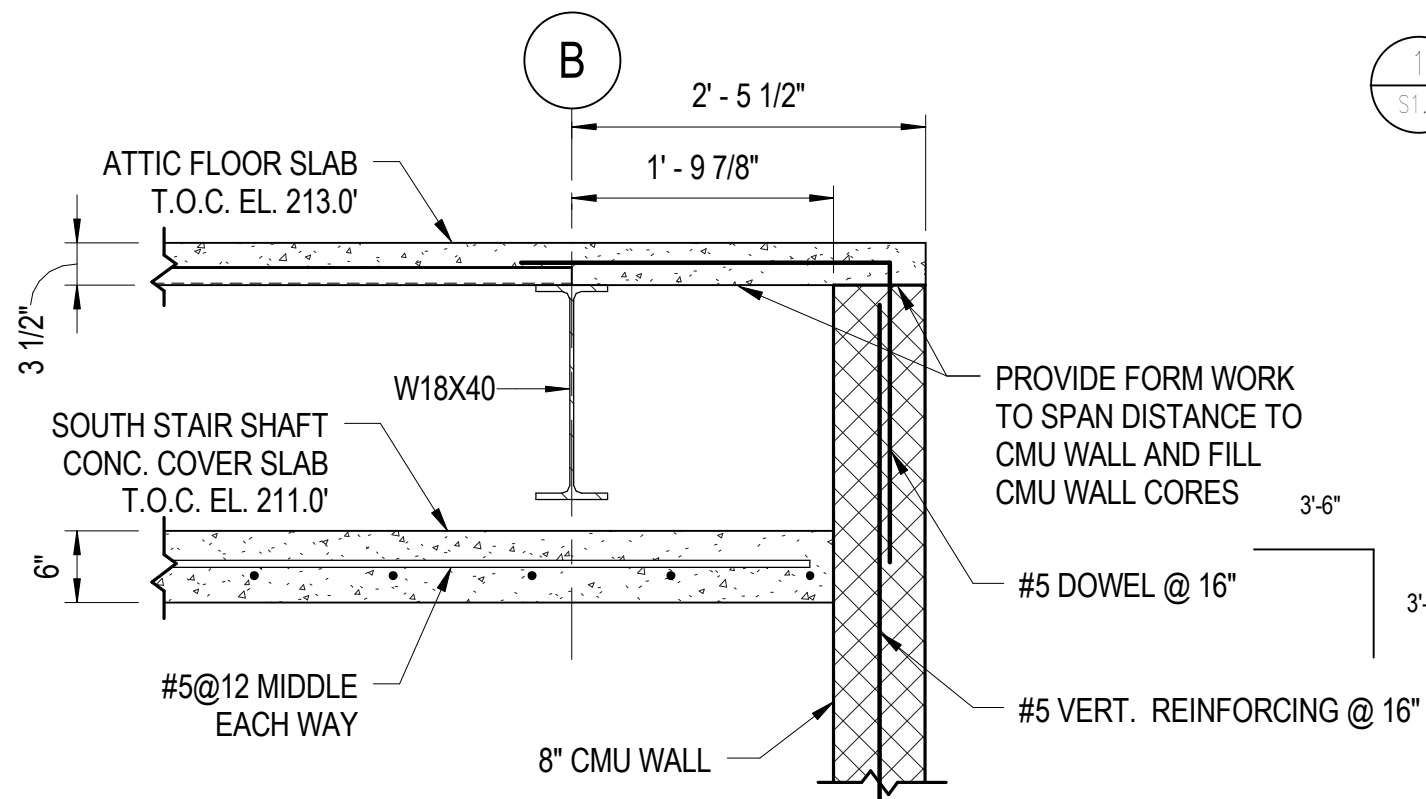
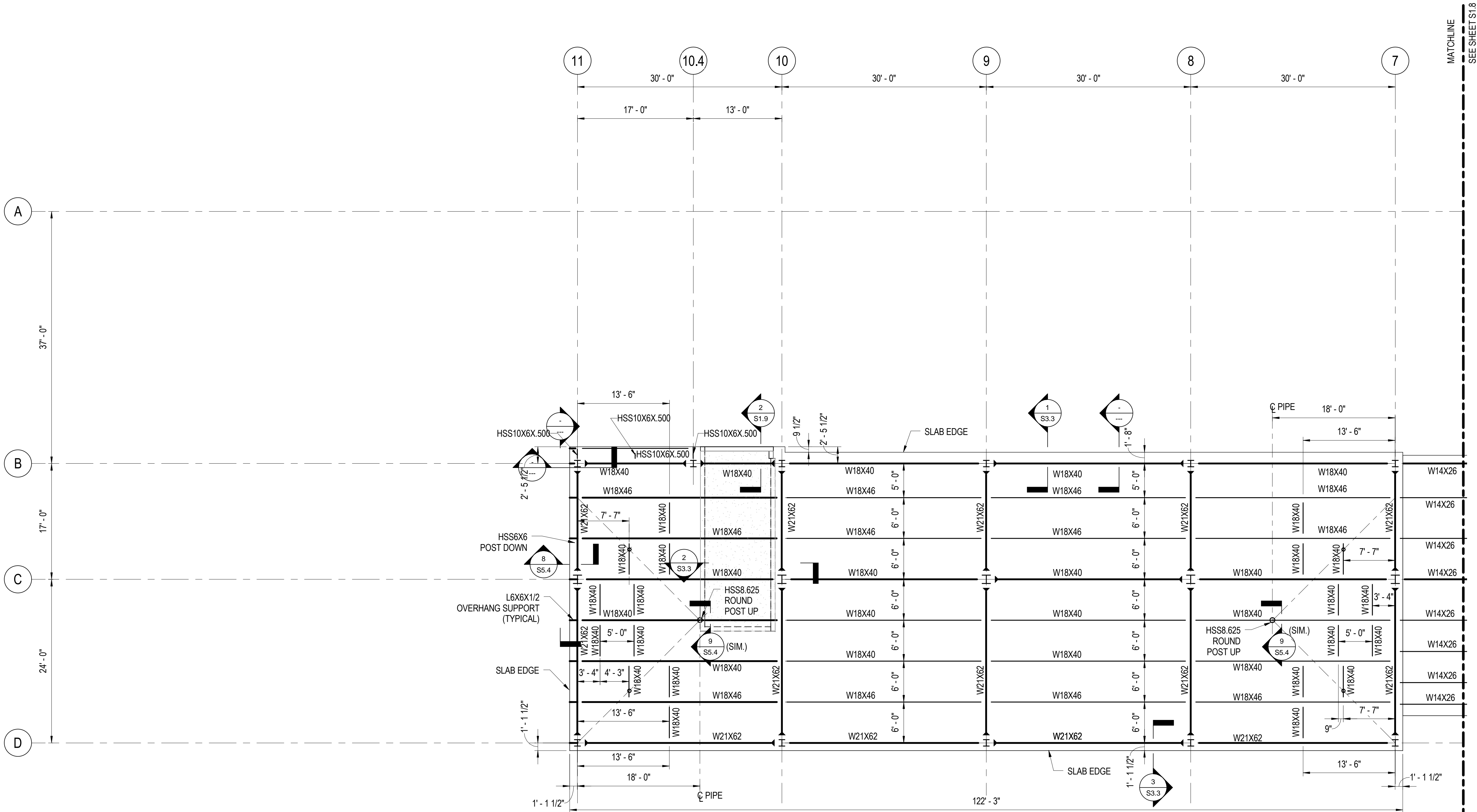
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S1.8

Scale: As indicated

Date: 01/25/09 Sheet 122 of 223

Des: CV Drawn: AAB Check: EF



1 ATTIC FLOOR FRAMING PLAN - PART B
1/8" = 1'-0"

DRAWING NOTES

1. REFER TO SHEET S1.8 FOR NOTES AND STRUCTURAL LEGEND.

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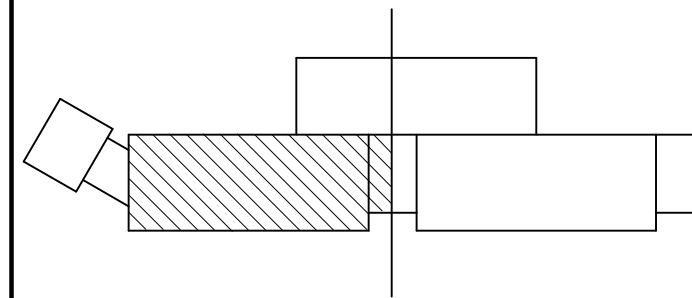


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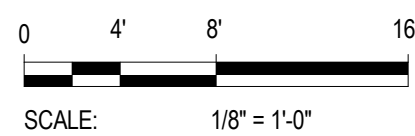
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KEY PLAN



GRAPHIC SCALES



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ATTIC FLOOR FRAMING PLAN
PART B

Drawing No.

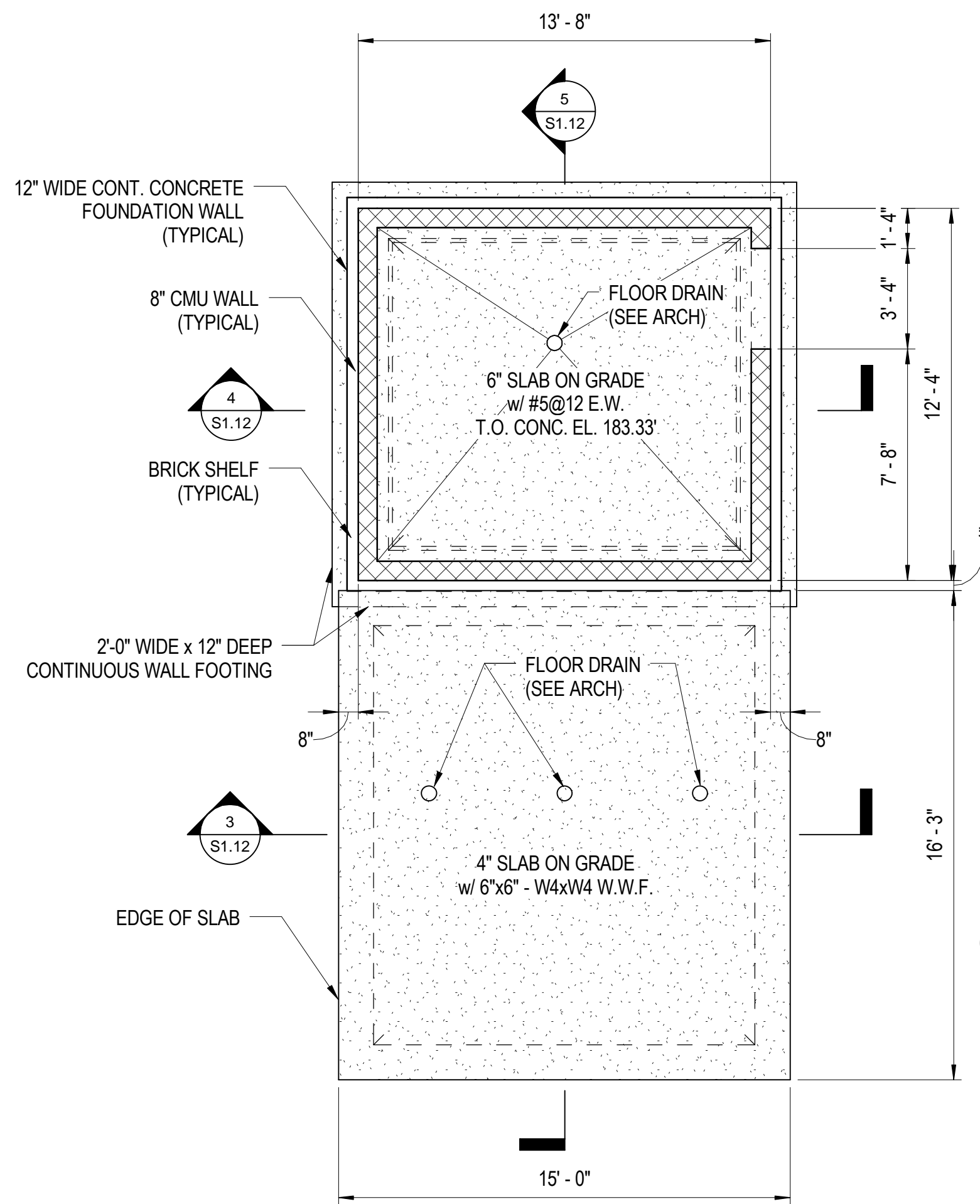
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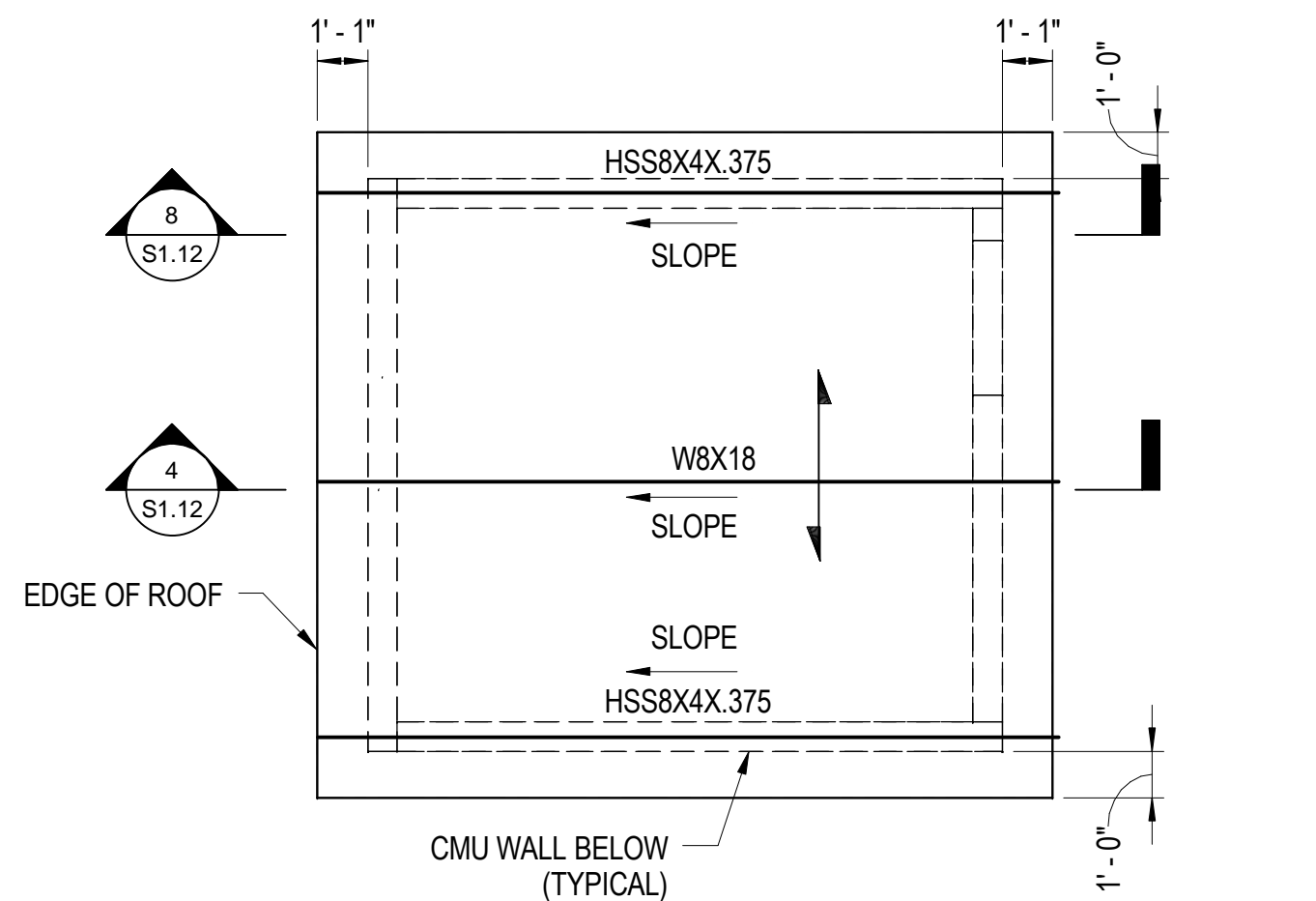
Date: 01/25/09 Sheet 123 of 223

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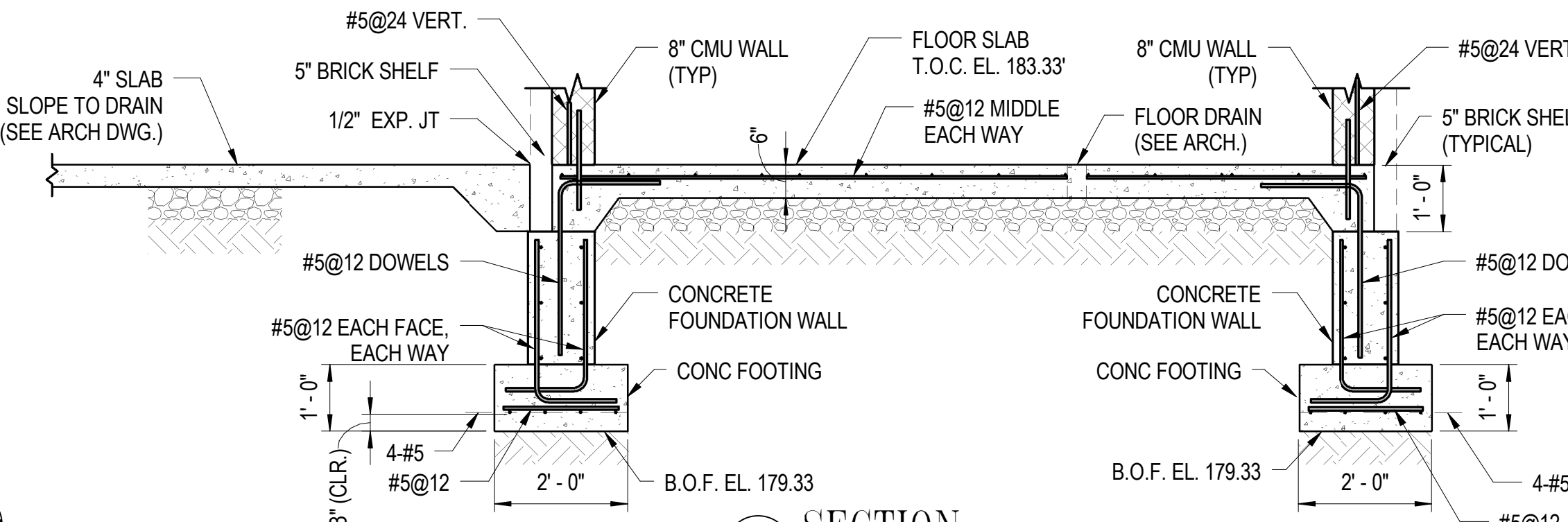
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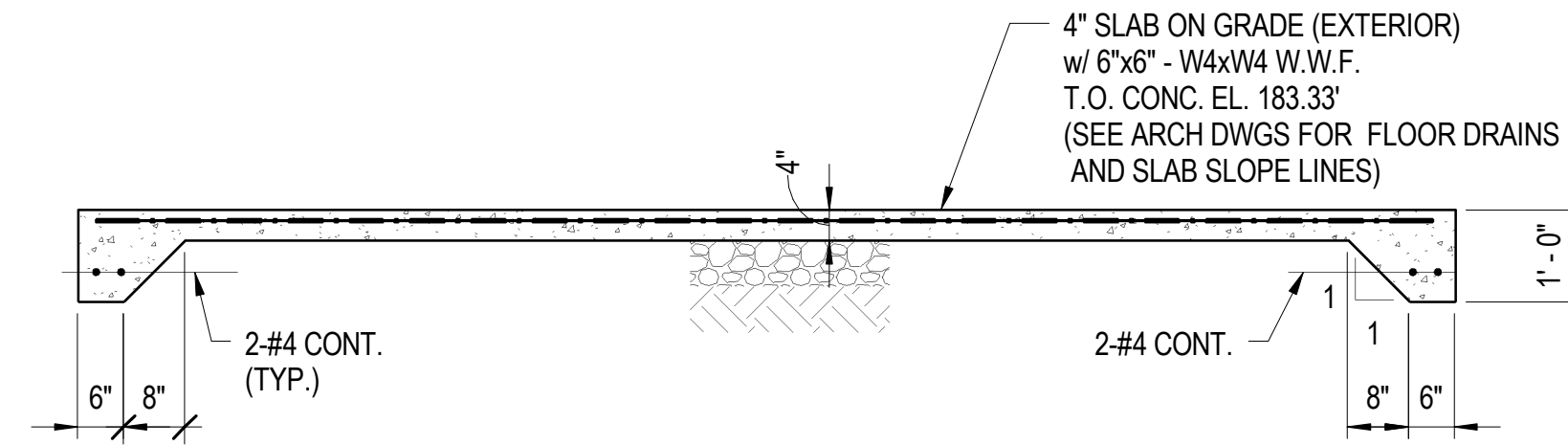
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S1.12 1/4" = 1'-0"



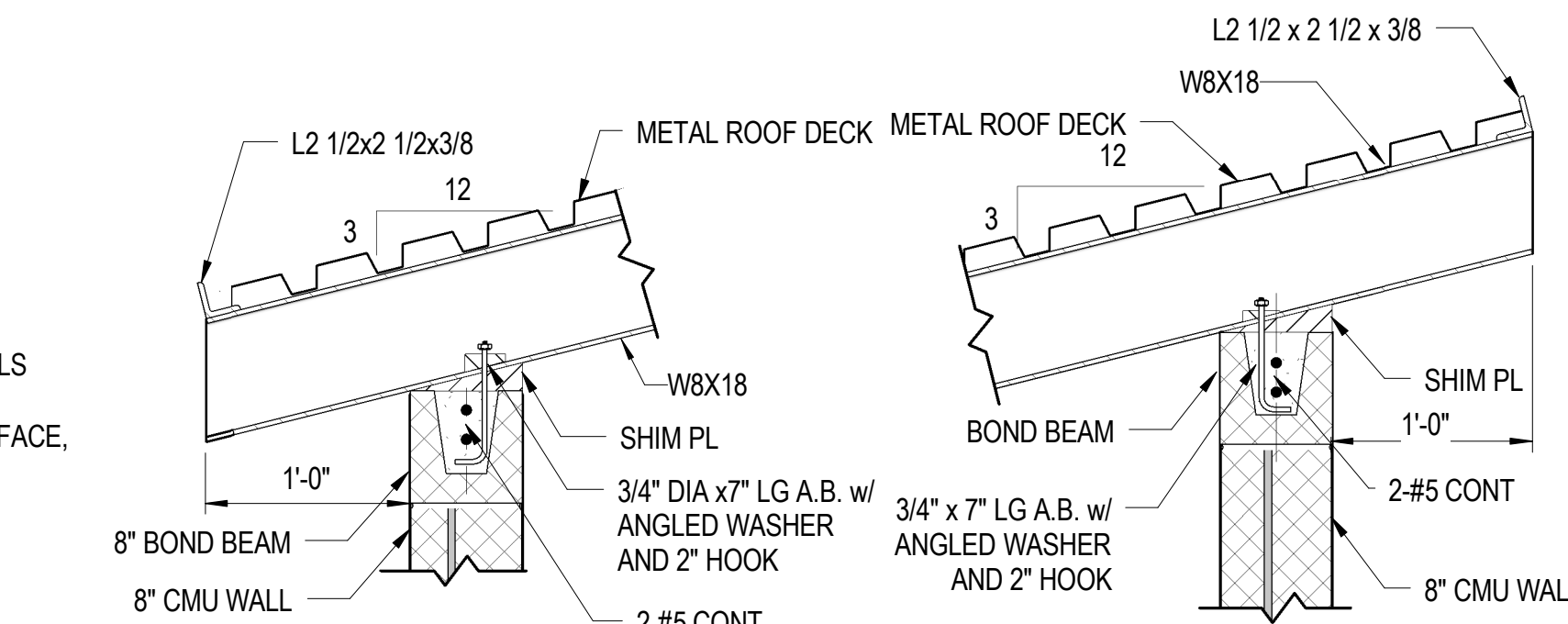
2 CANINE FACILITY ROOF FRAMING PLAN
S1.12 1/4" = 1'-0"



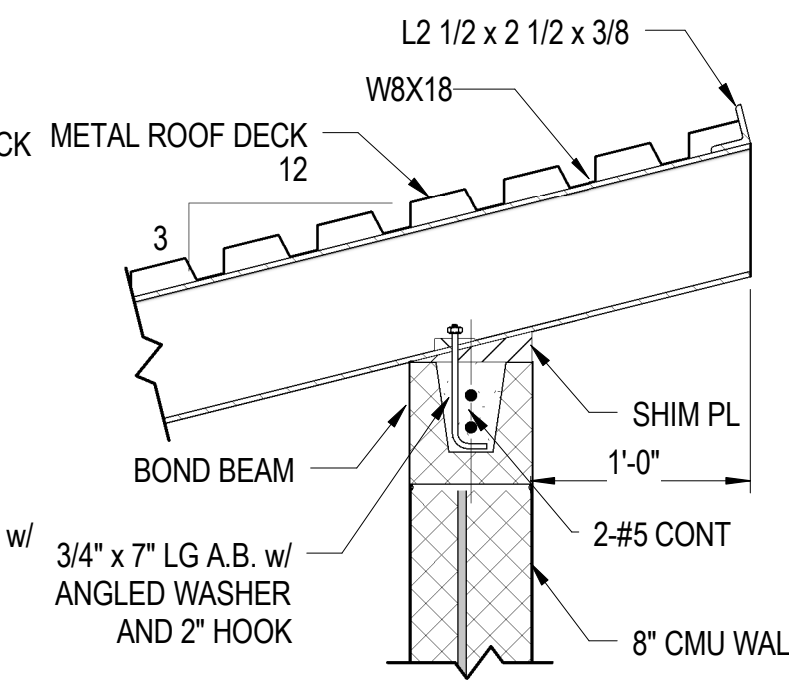
5 SECTION
S1.12 1/2" = 1'-0"



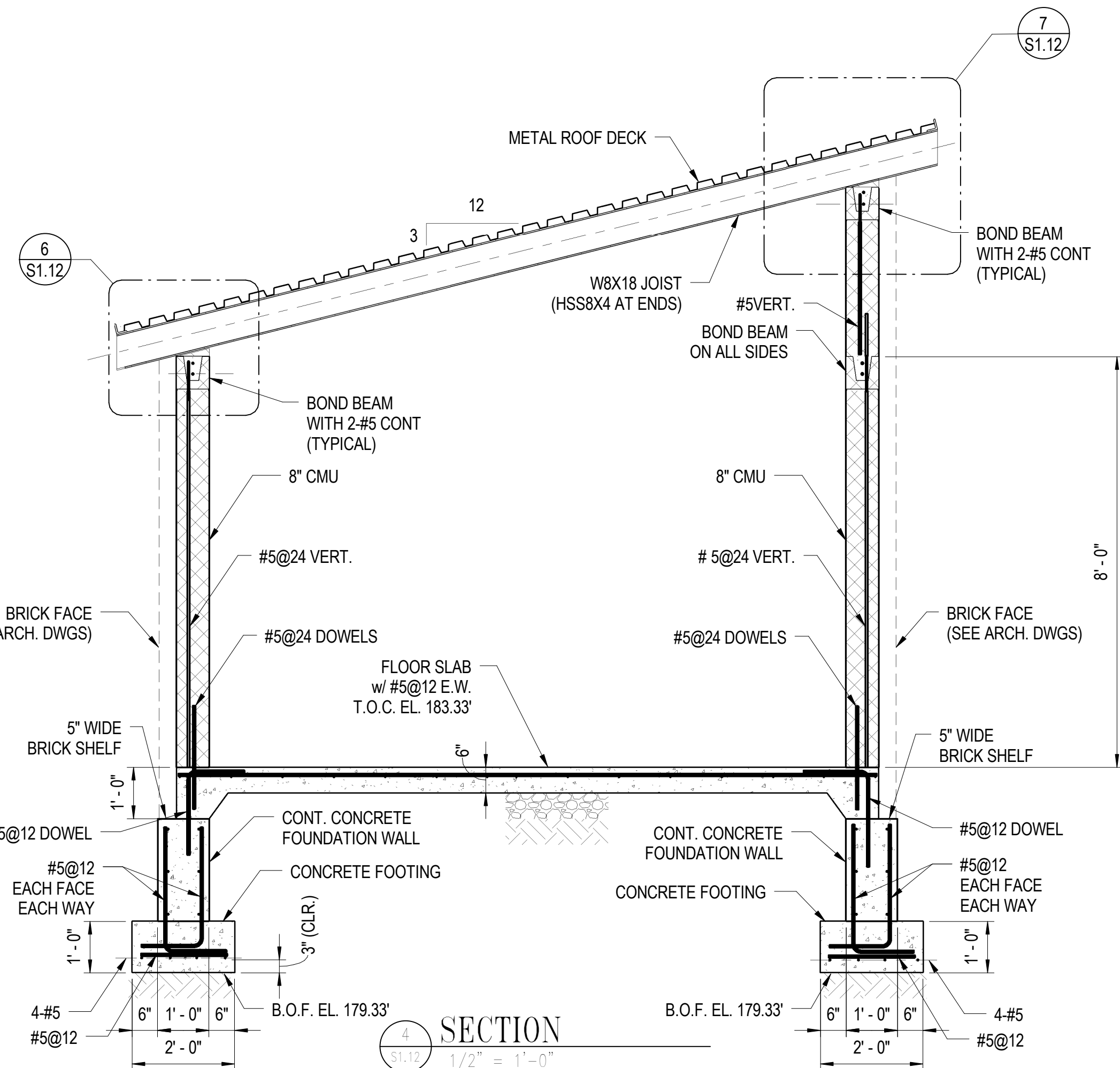
3 SECTION
S1.12 1/2" = 1'-0"



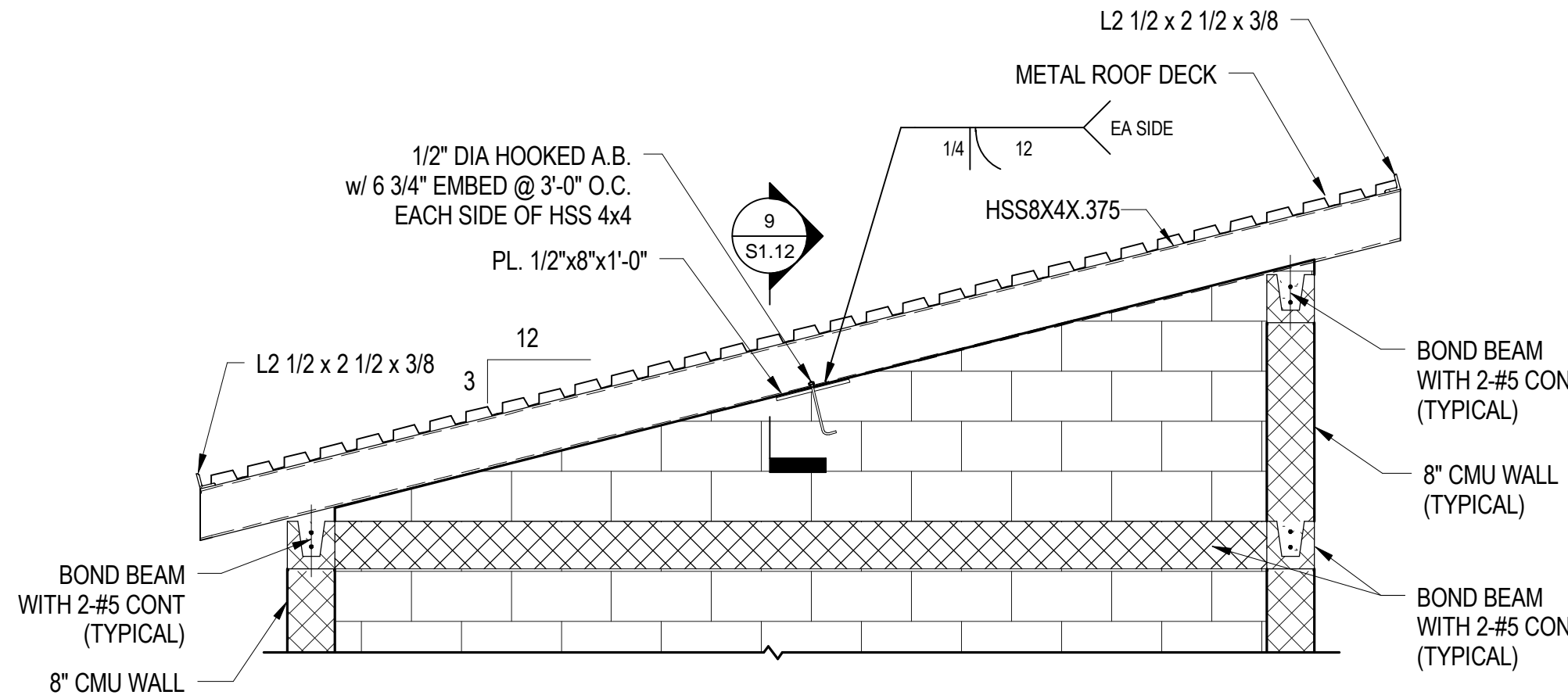
6 ROOF CONNECTION @ L.P.
S1.12 1" = 1'-0"



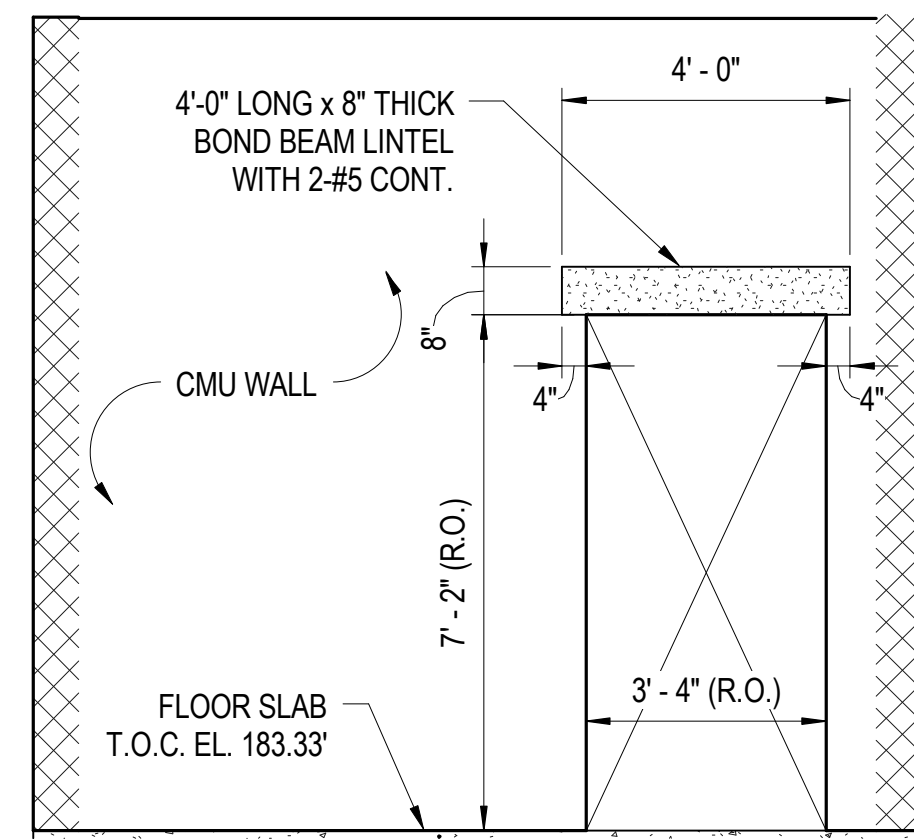
7 ROOF CONNECTION @ H.P.
S1.12 1" = 1'-0"



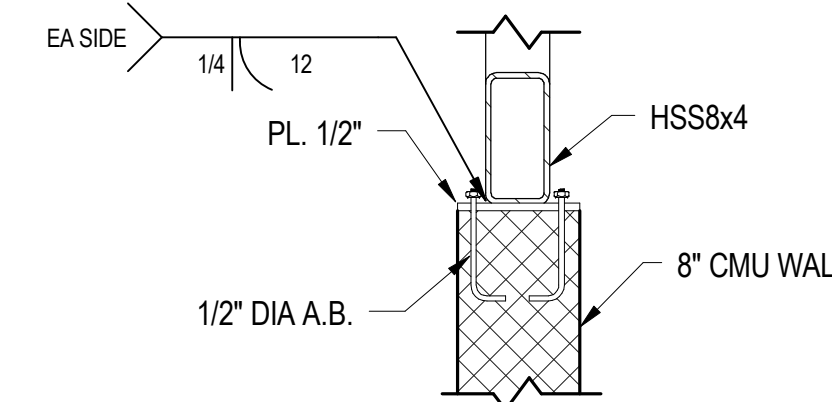
4 SECTION
S1.12 1/2" = 1'-0"



8 SECTION
S1.12 1/2" = 1'-0"



10 ELEVATION AT ENTRANCE
S1.12 3/8" = 1'-0"




9 SECTION
S1.12 1" = 1'-0"

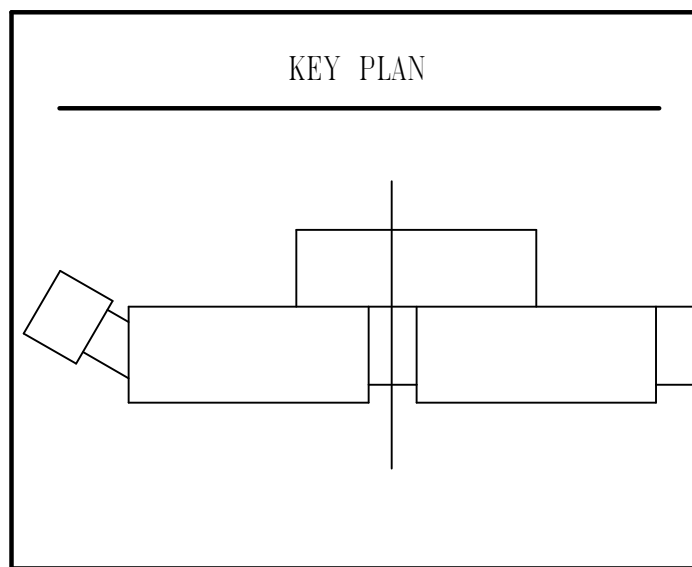
DRAWING NOTES

- REFER TO SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
- REFER TO SHEETS S0.2, AND S0.3 FOR TYPICAL STRUCTURAL DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CONCRETE MASONRY WALLS, AND ANY DIMENSIONS NOT SHOWN ON THESE PLANS.
- ROOF CONSTRUCTION CONSISTS OF A 1.5", 18 GAUGE METAL ROOF DECK.
- INDICATES THE SPAN DIRECTION OF THE METAL ROOF DECK.

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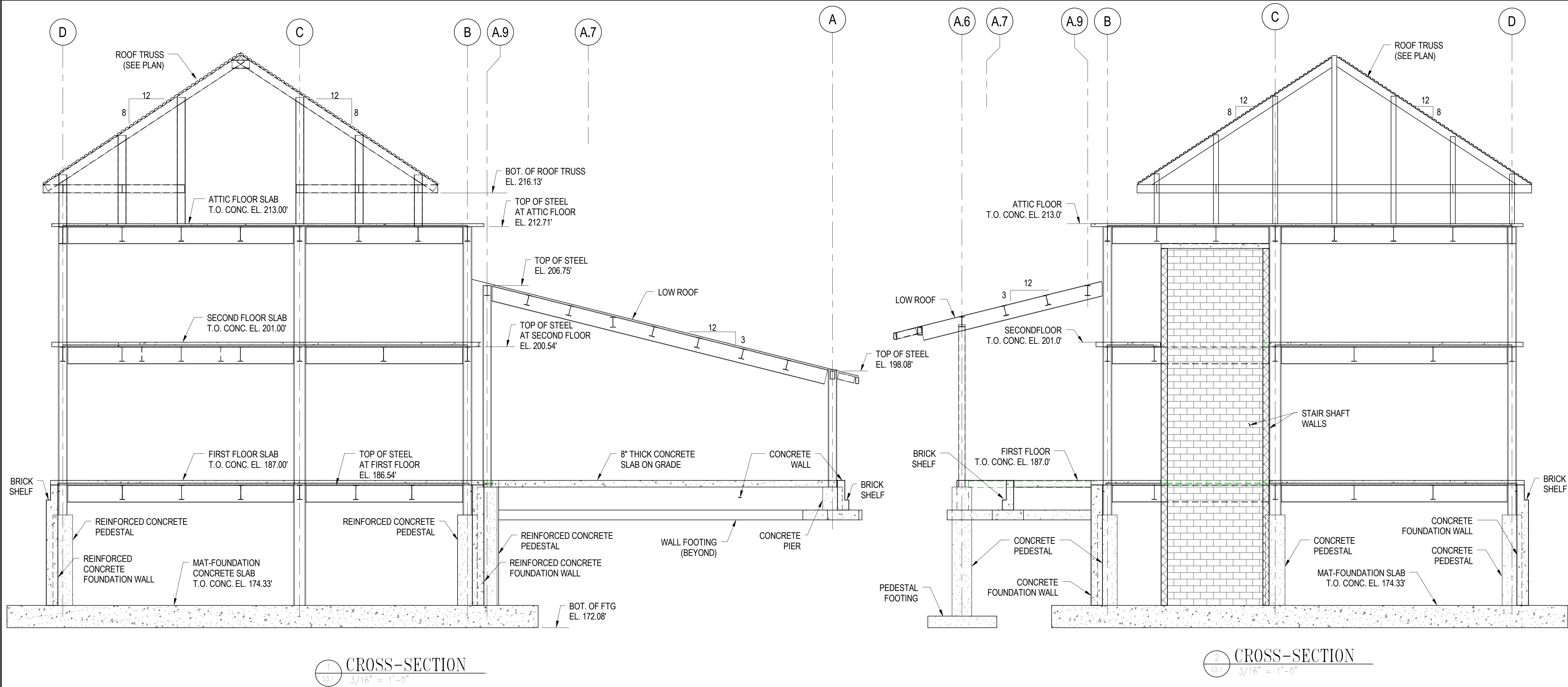
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0 2' 4' 8'	SCALE: 1/4" = 1'-0"
0 1' 2' 4'	SCALE: 1/2" = 1'-0"
0 6" 1' 2'	SCALE: 1" = 1'-0"

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CANINE FACILITY		
Drawing No.		
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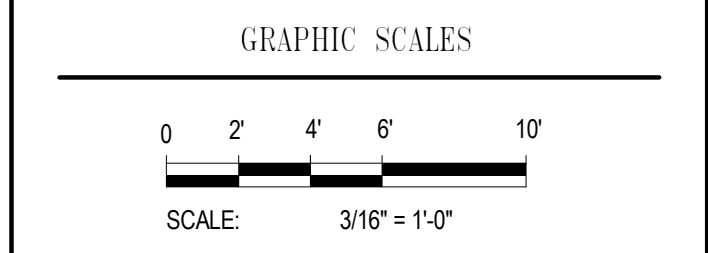
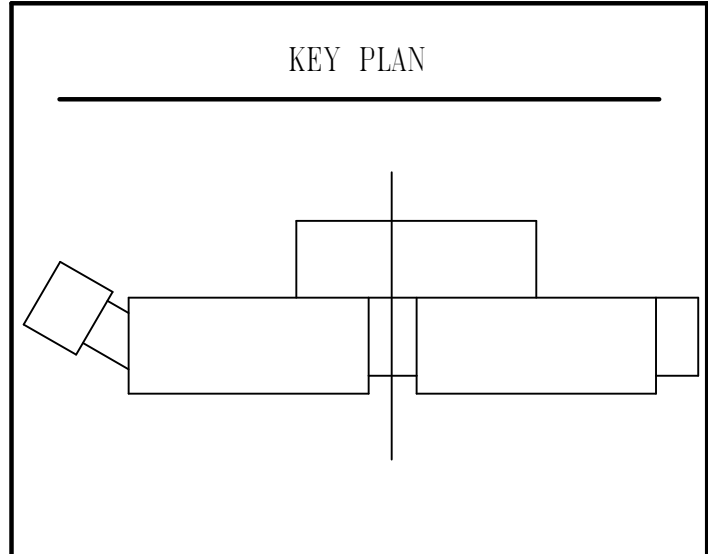


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BUILDING CROSS-SECTION

Drawing No.

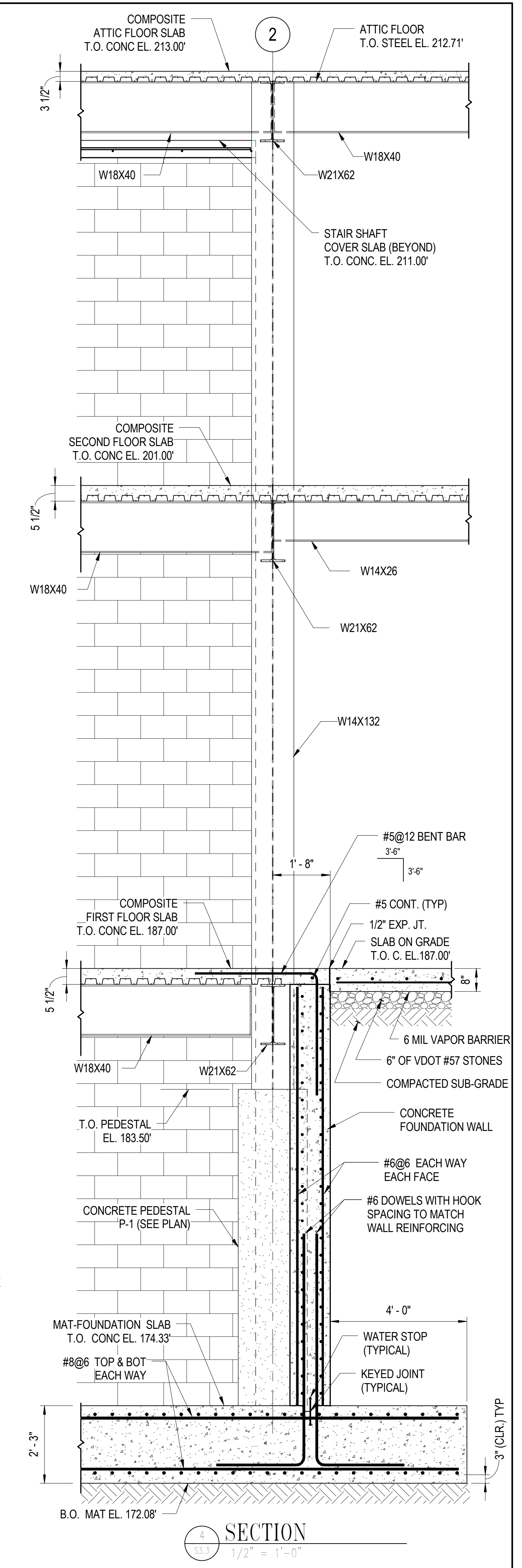
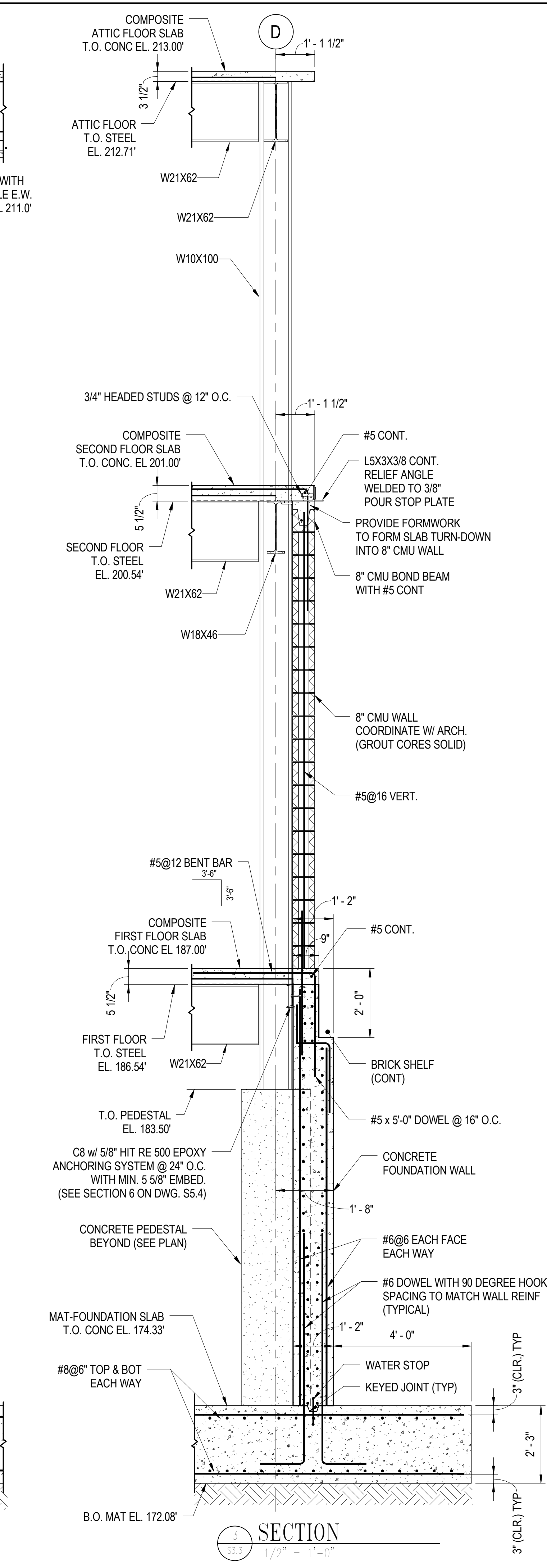
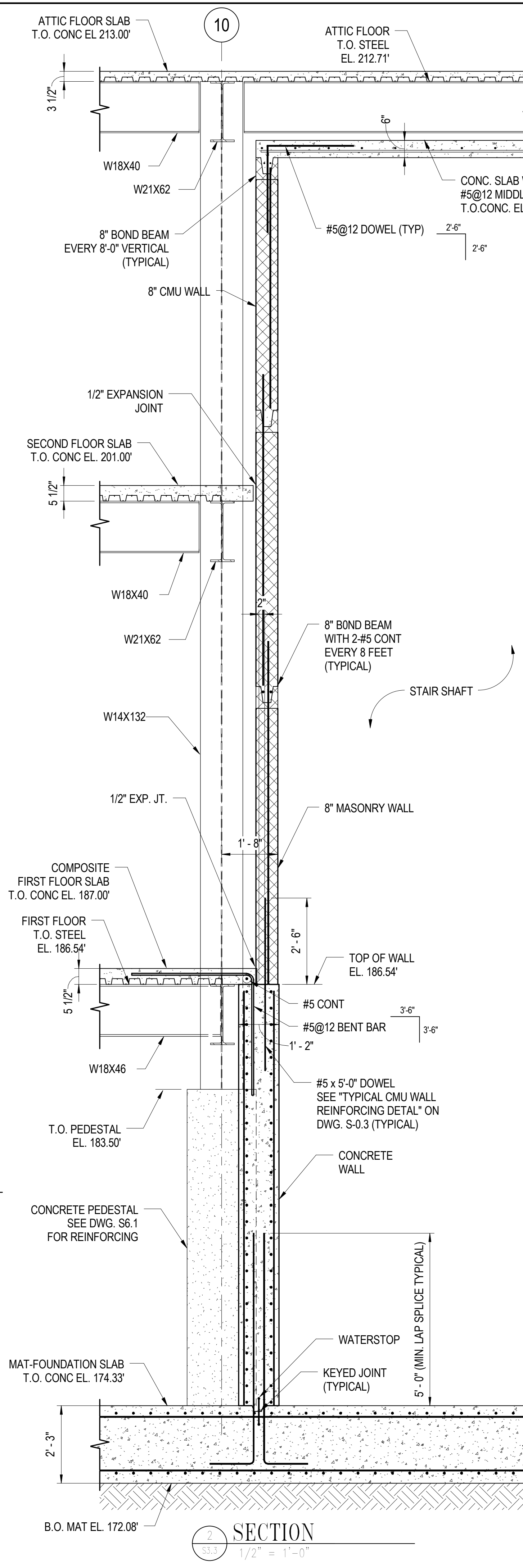
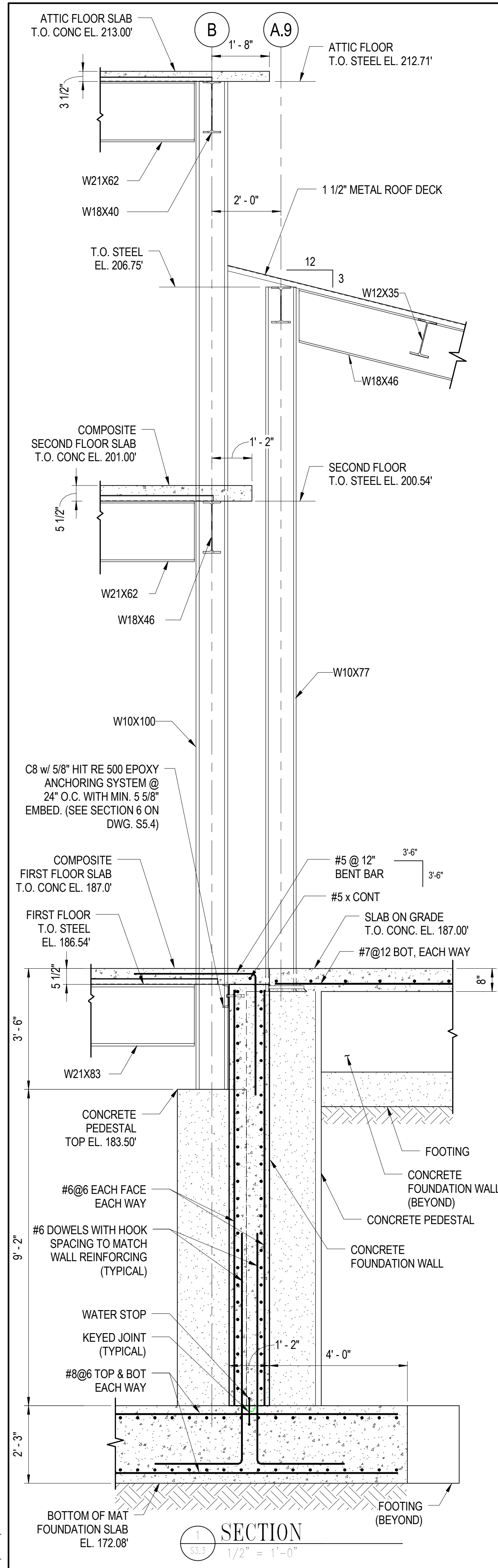
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Date: 01/25/09 Sheet 127 of 223

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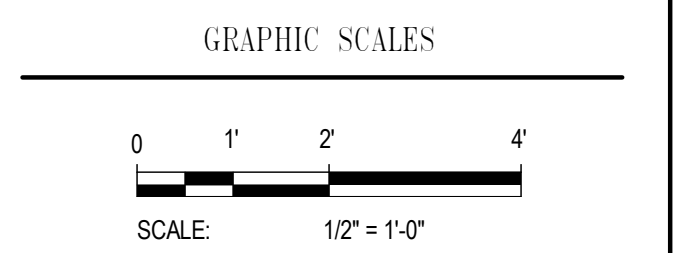
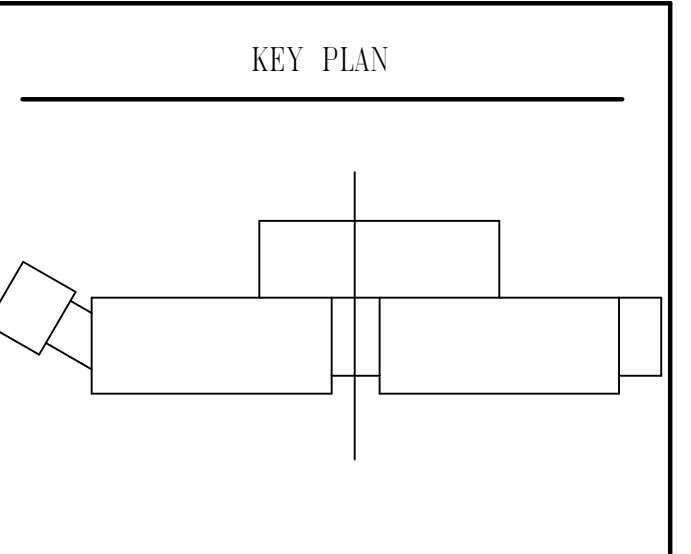


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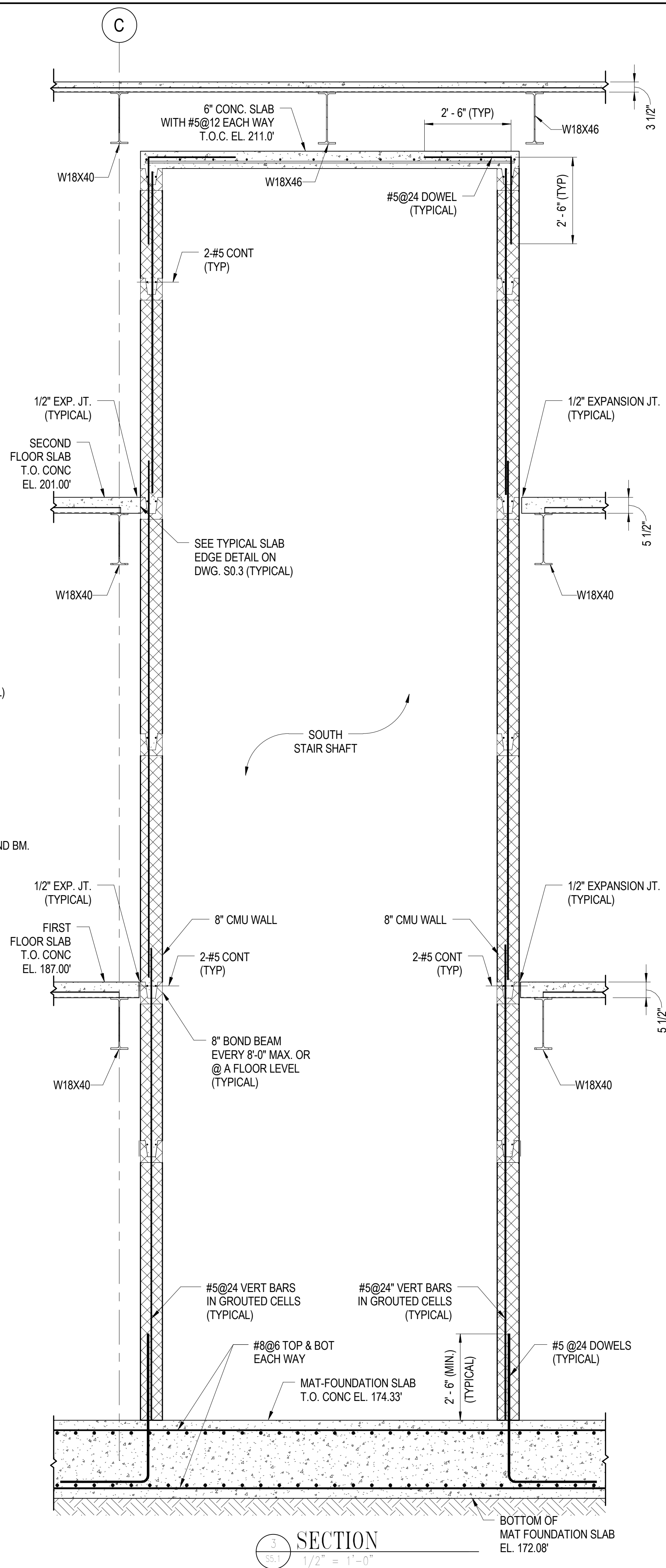
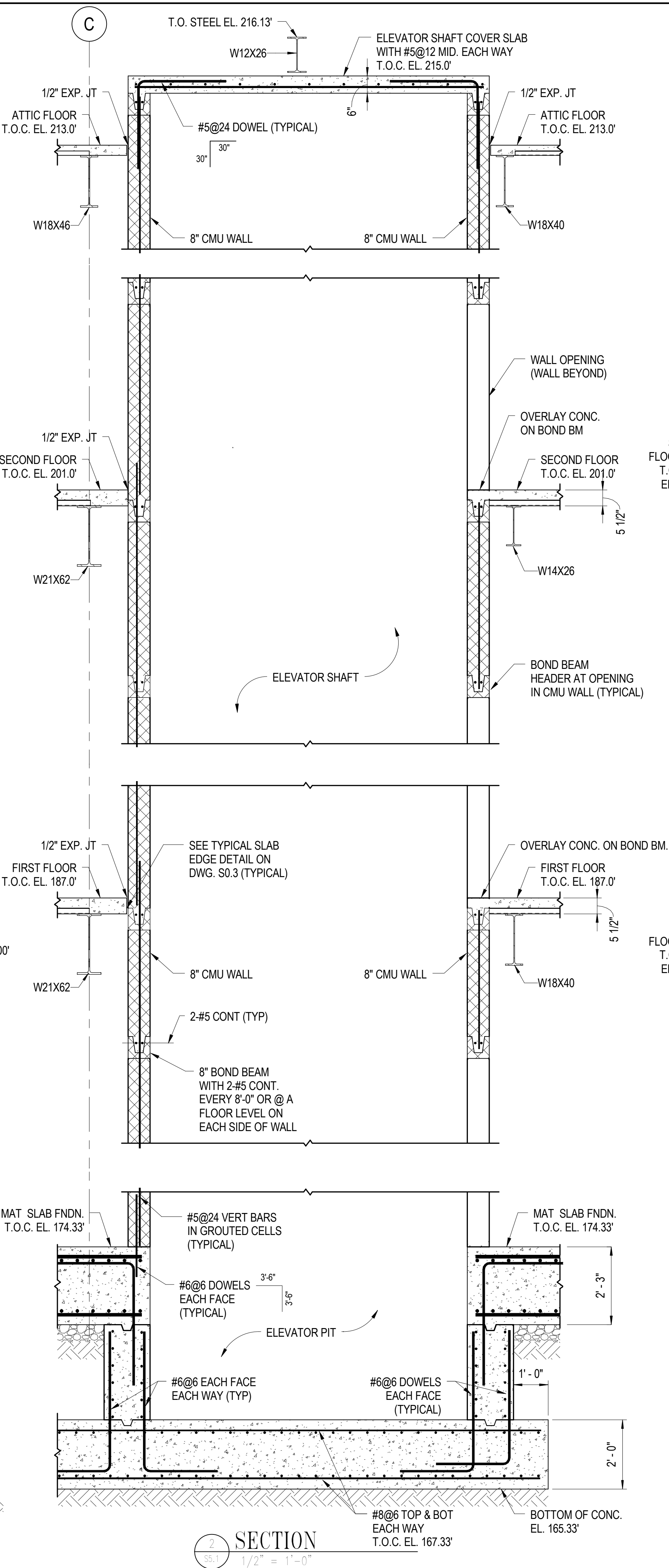
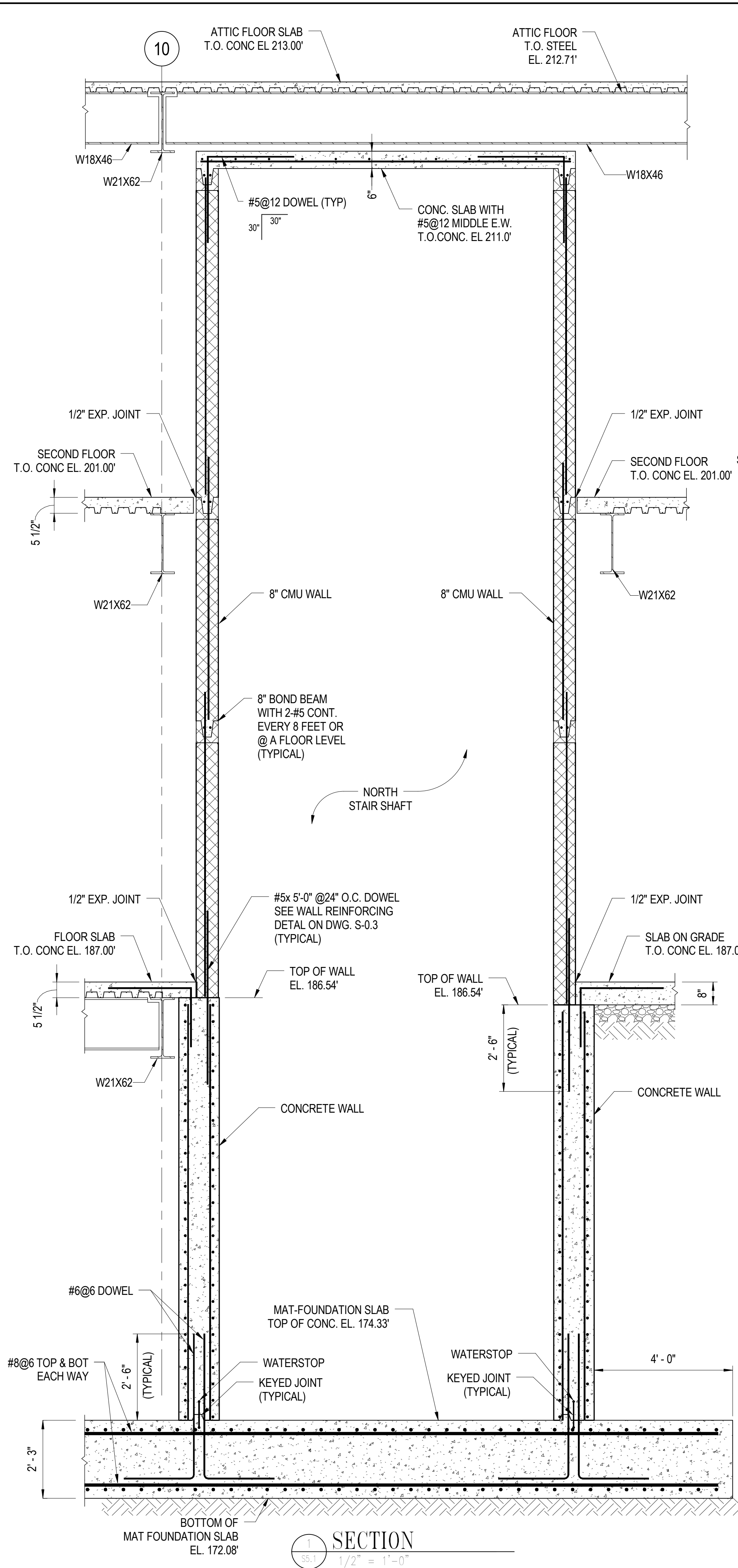


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WALL SECTIONS		
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S3.3		
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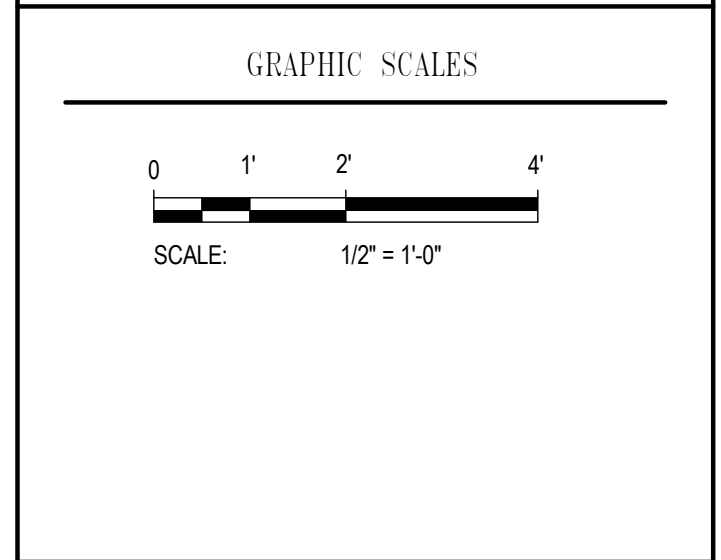
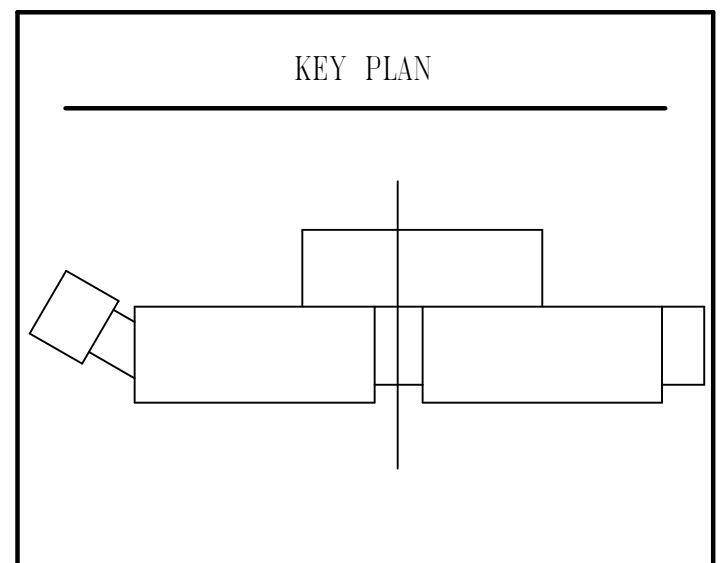
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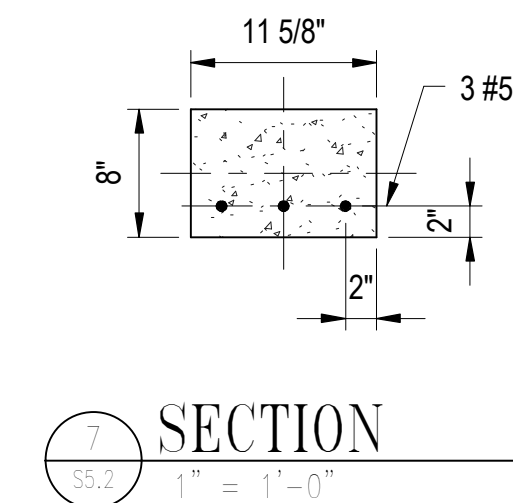
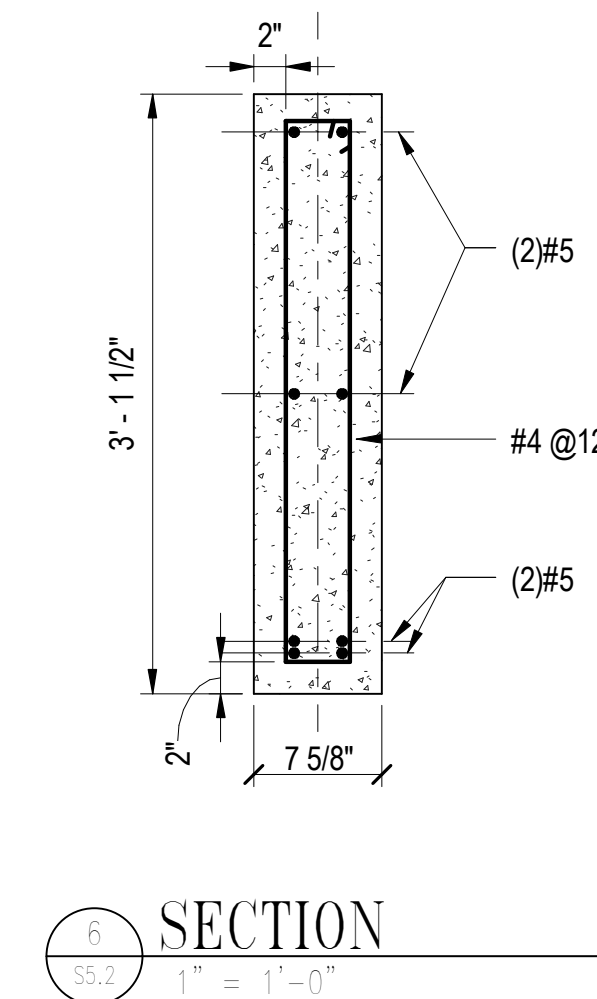
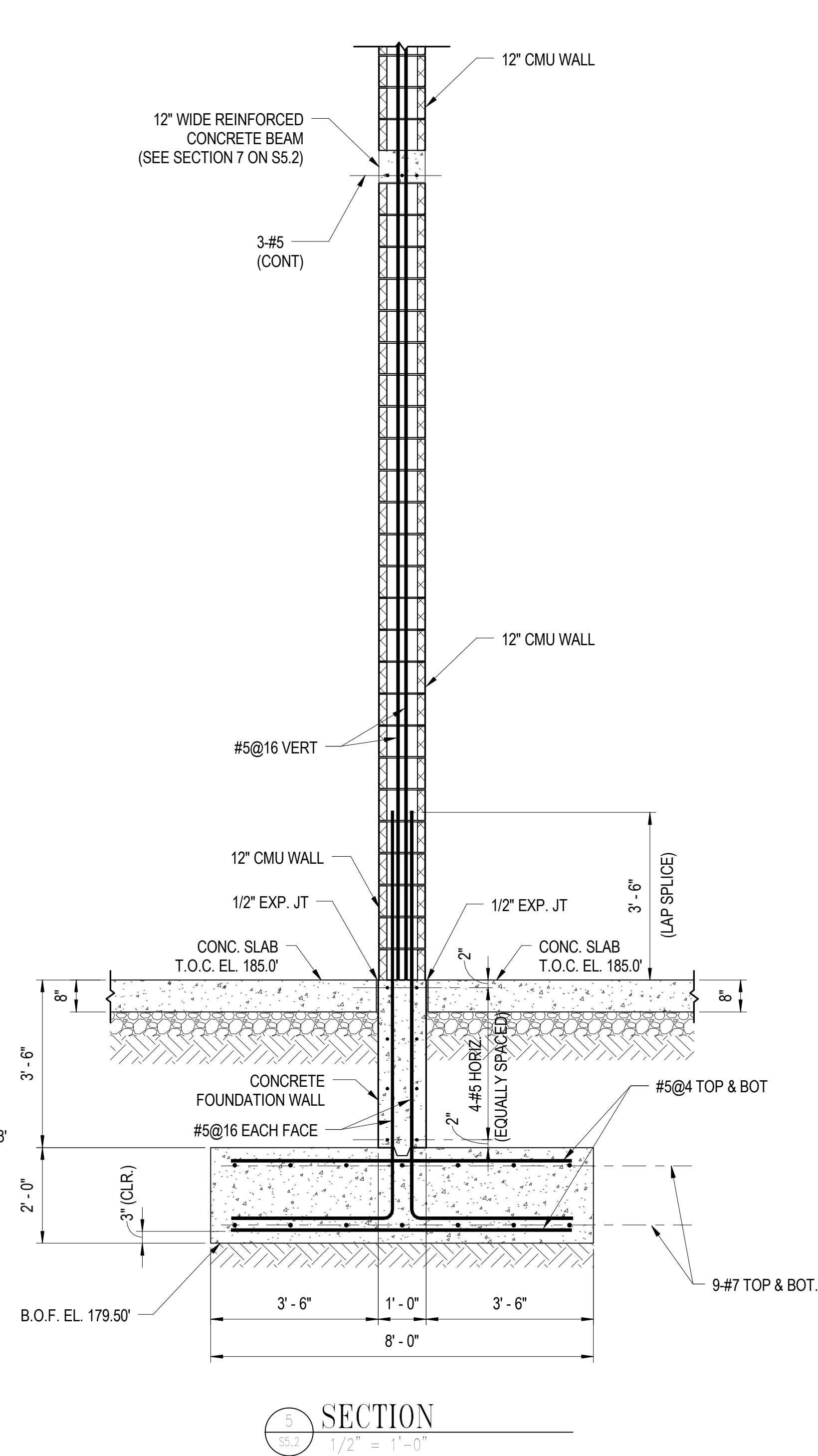
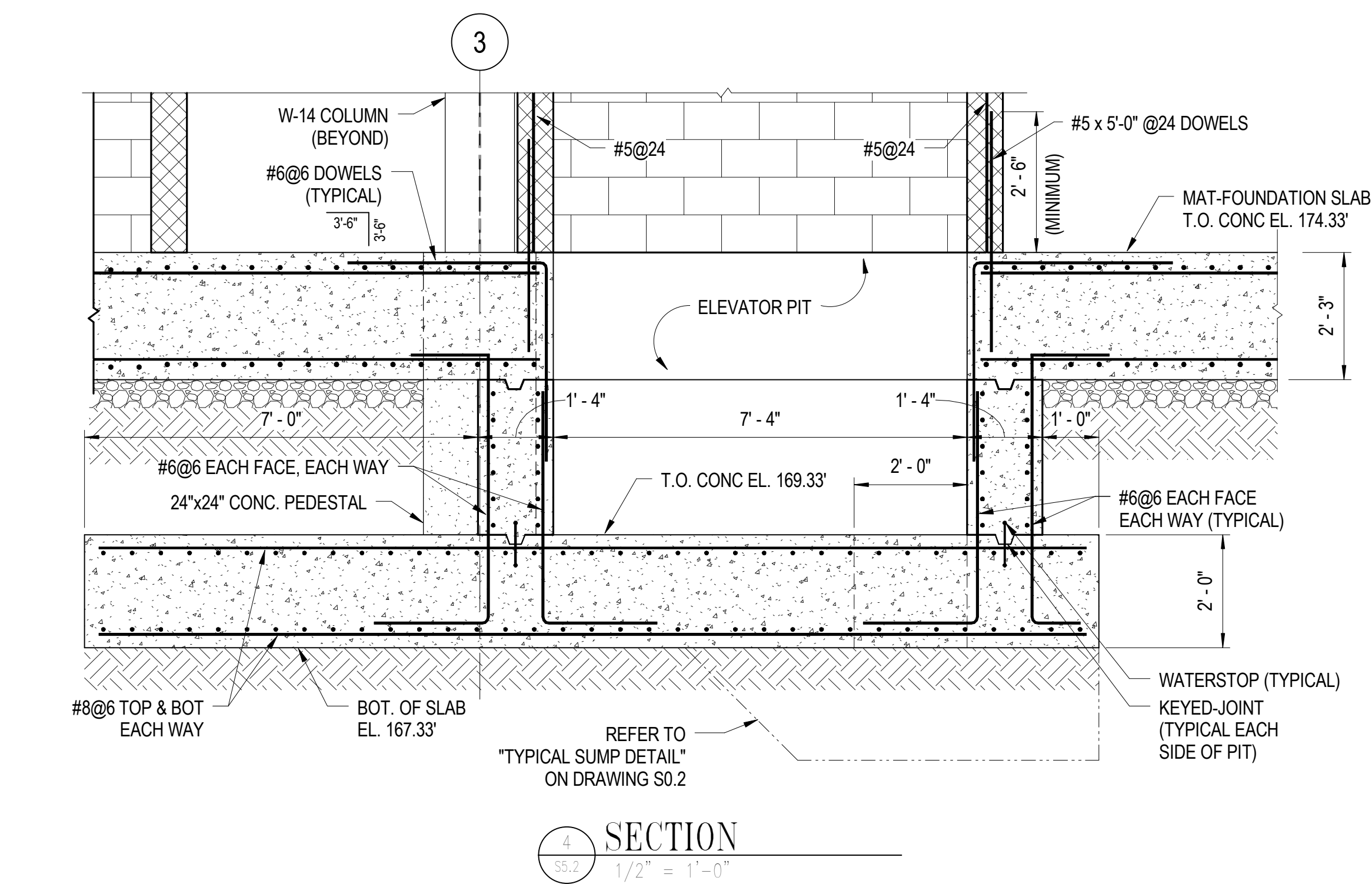
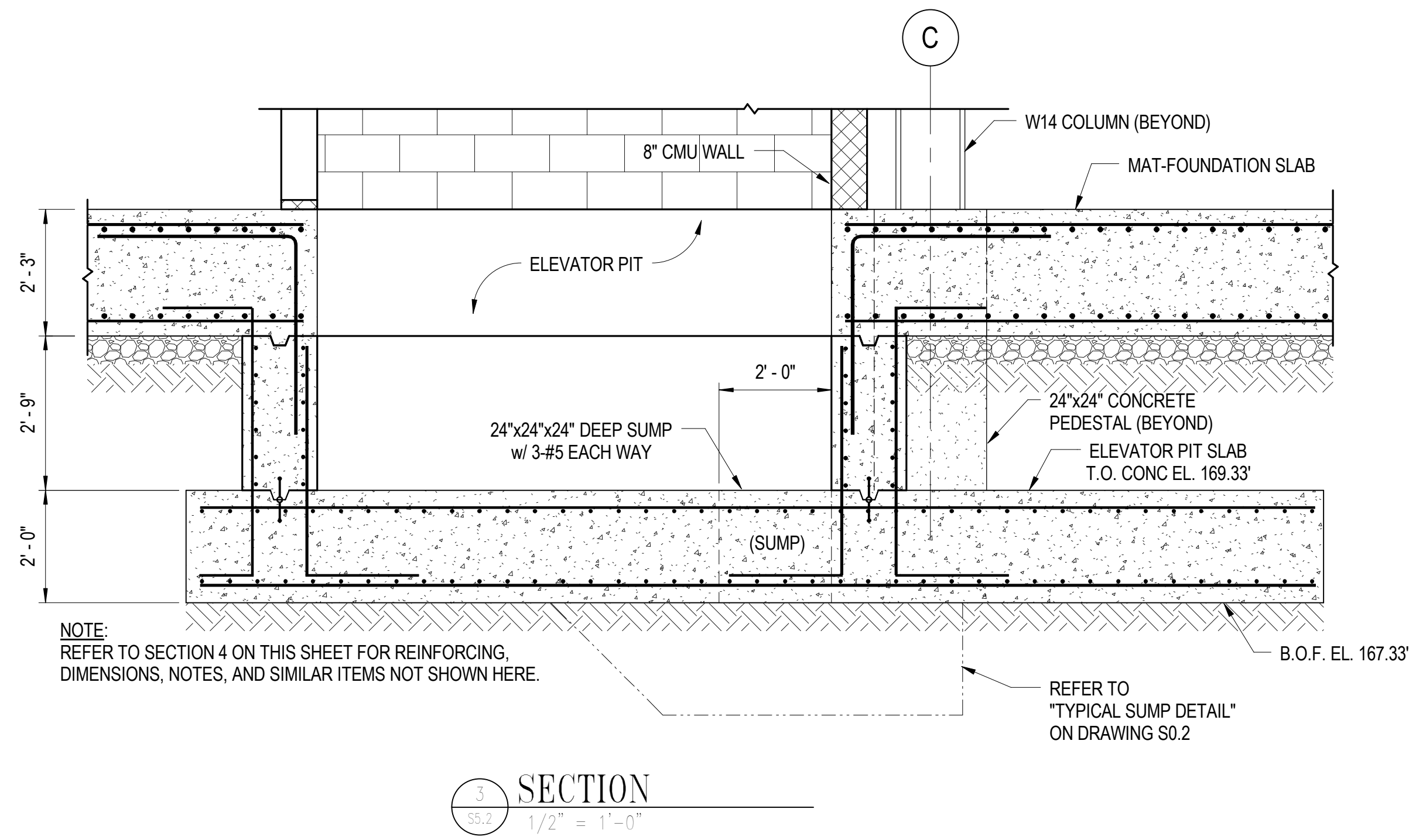
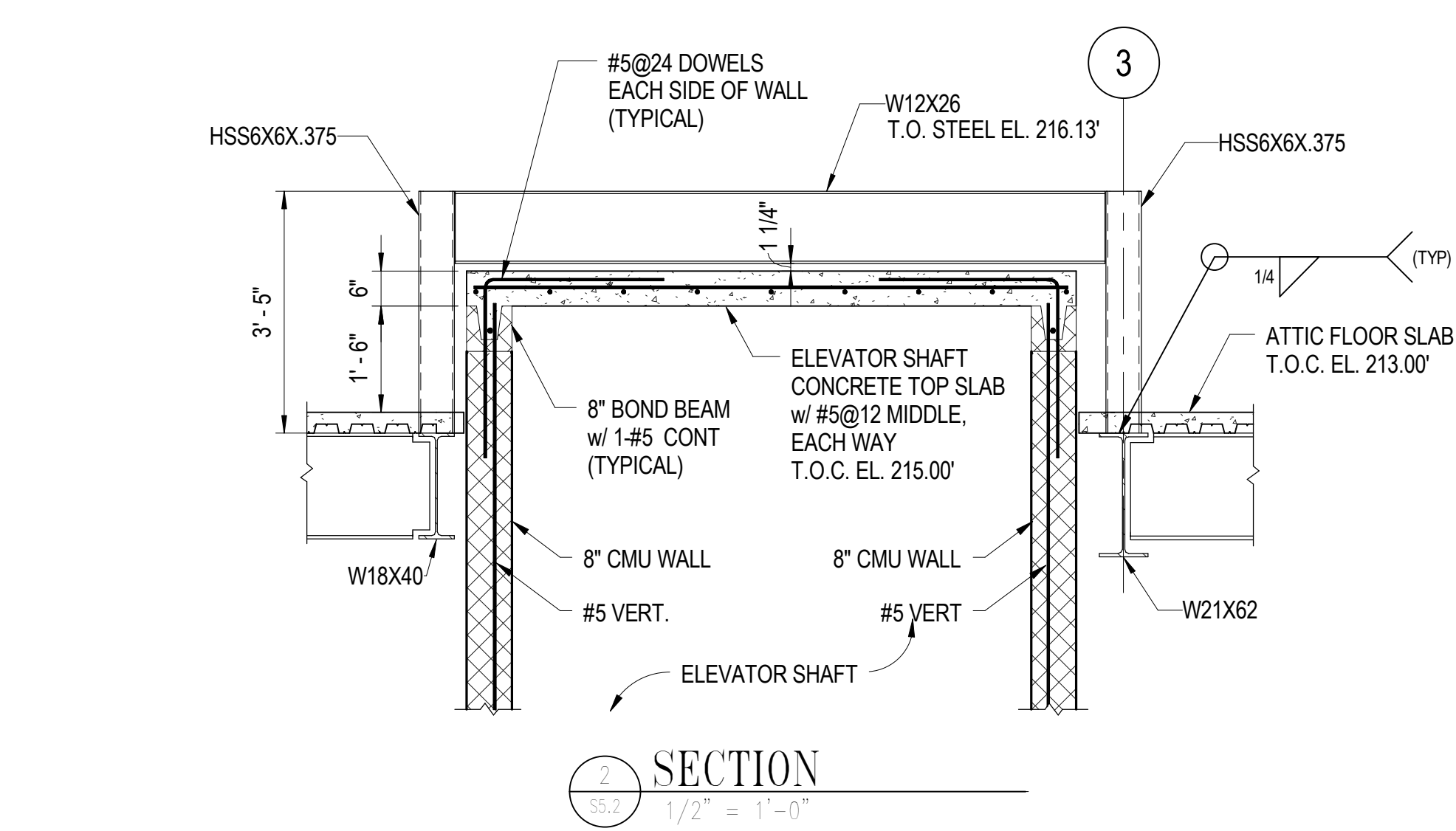
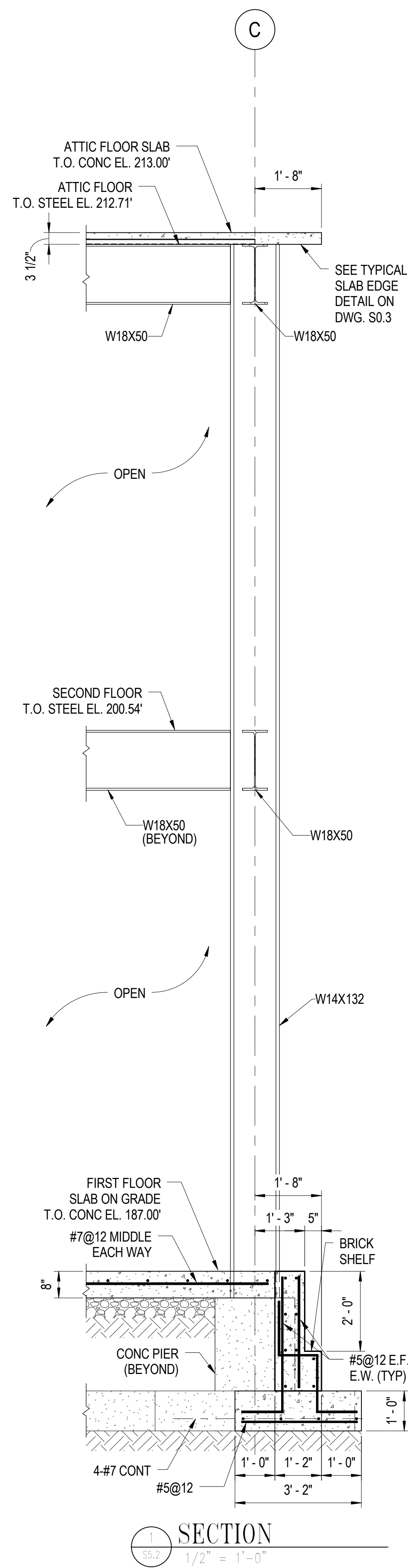
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SECTIONS		
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S5.1		
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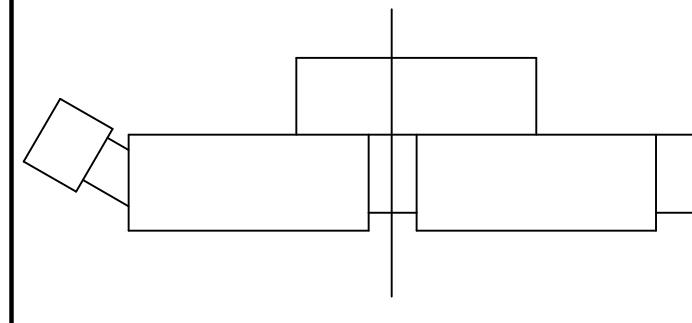
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KEY PLAN



GRAPHIC SCALES

0 1' 2' 4'

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

0 6' 1' 2'

SCALE: 1" = 1'-0"

SIGNATURE

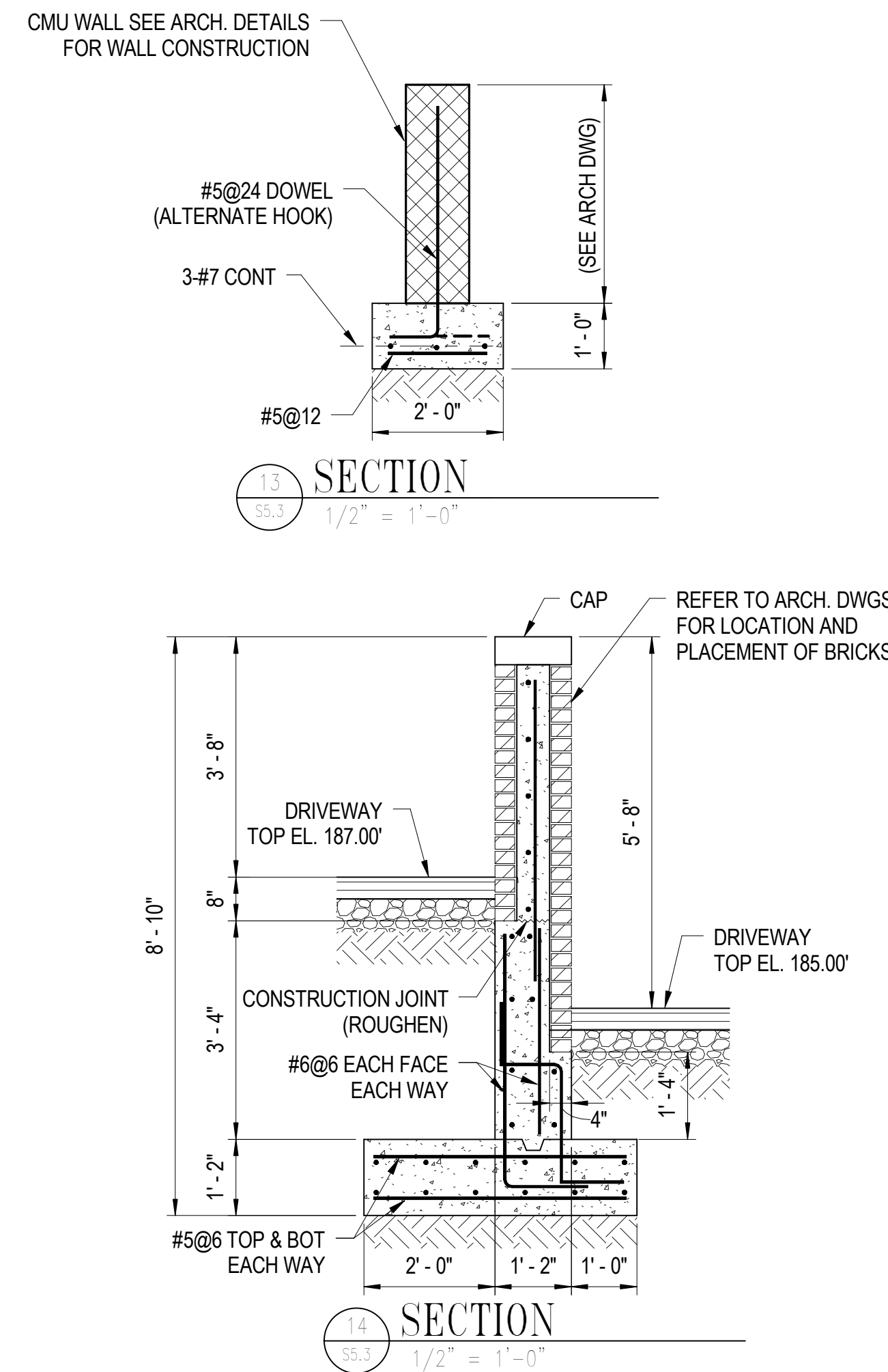
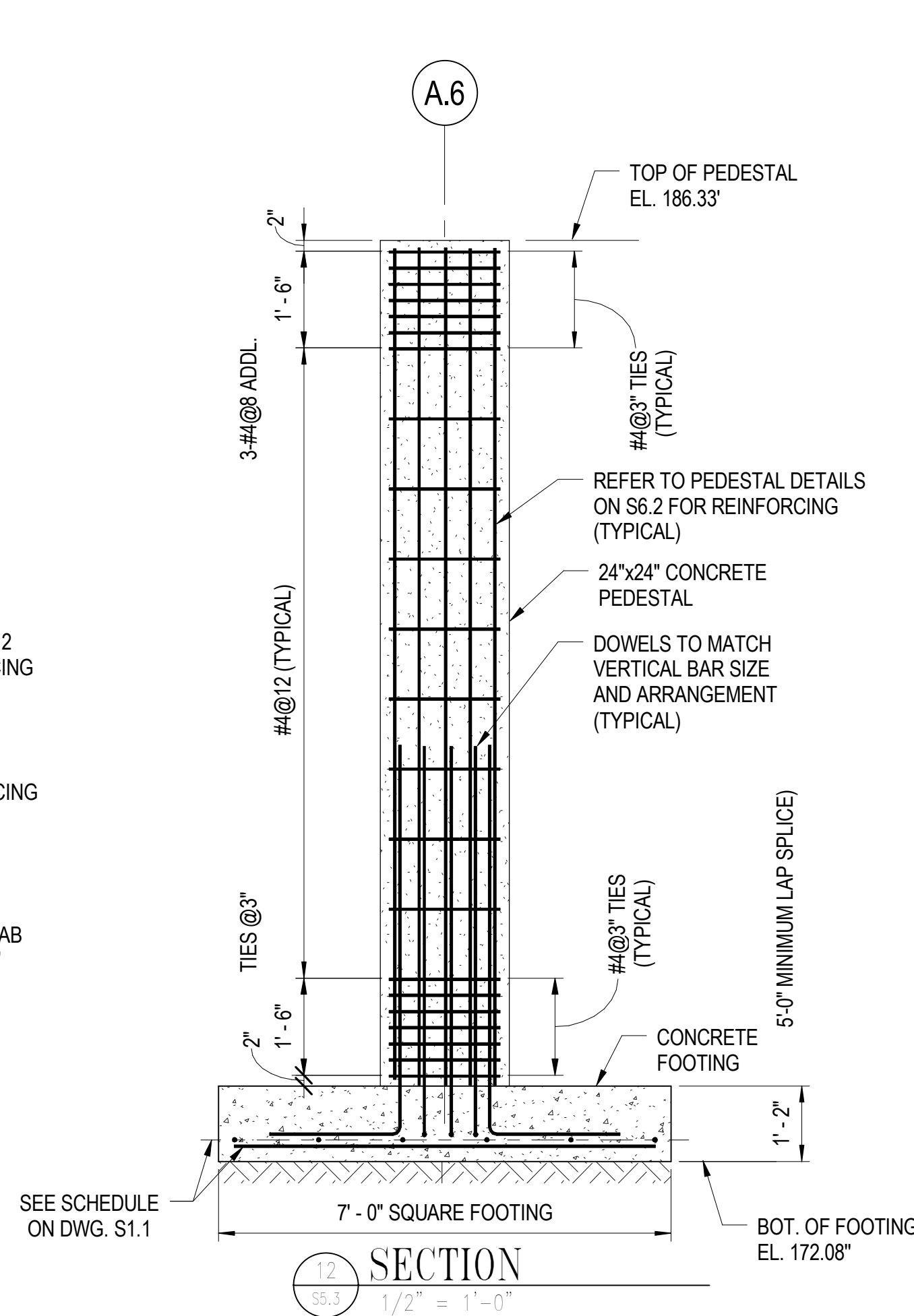
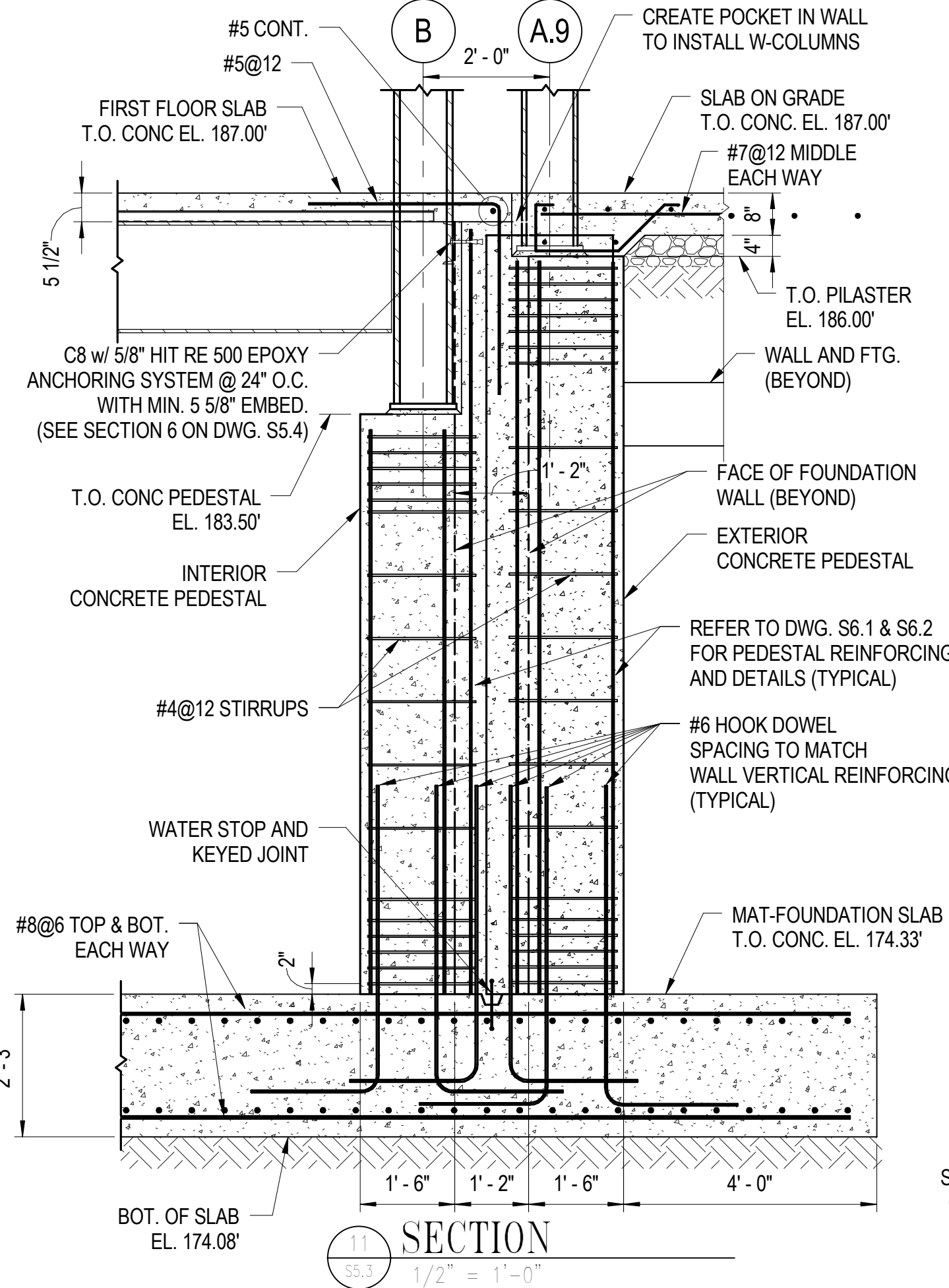
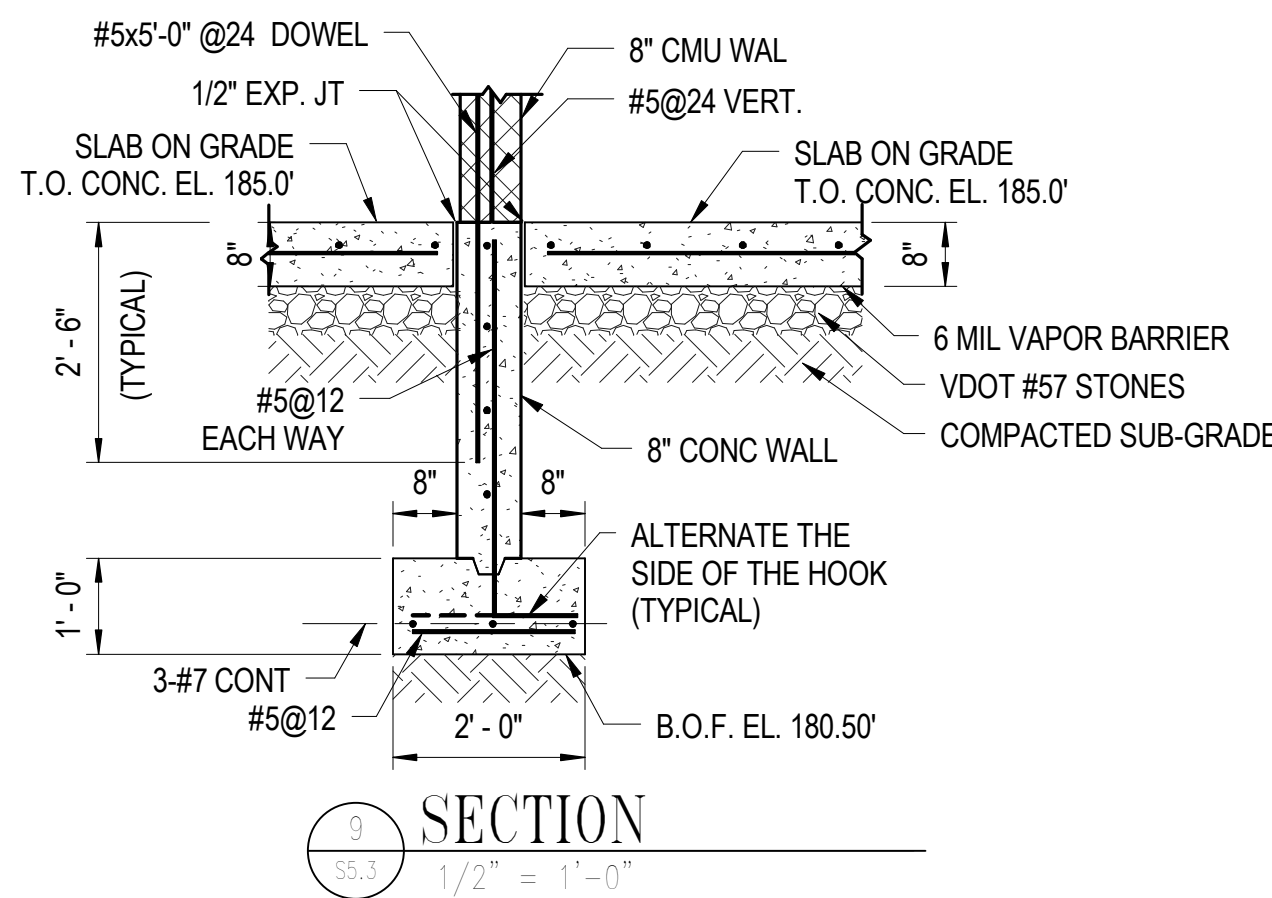
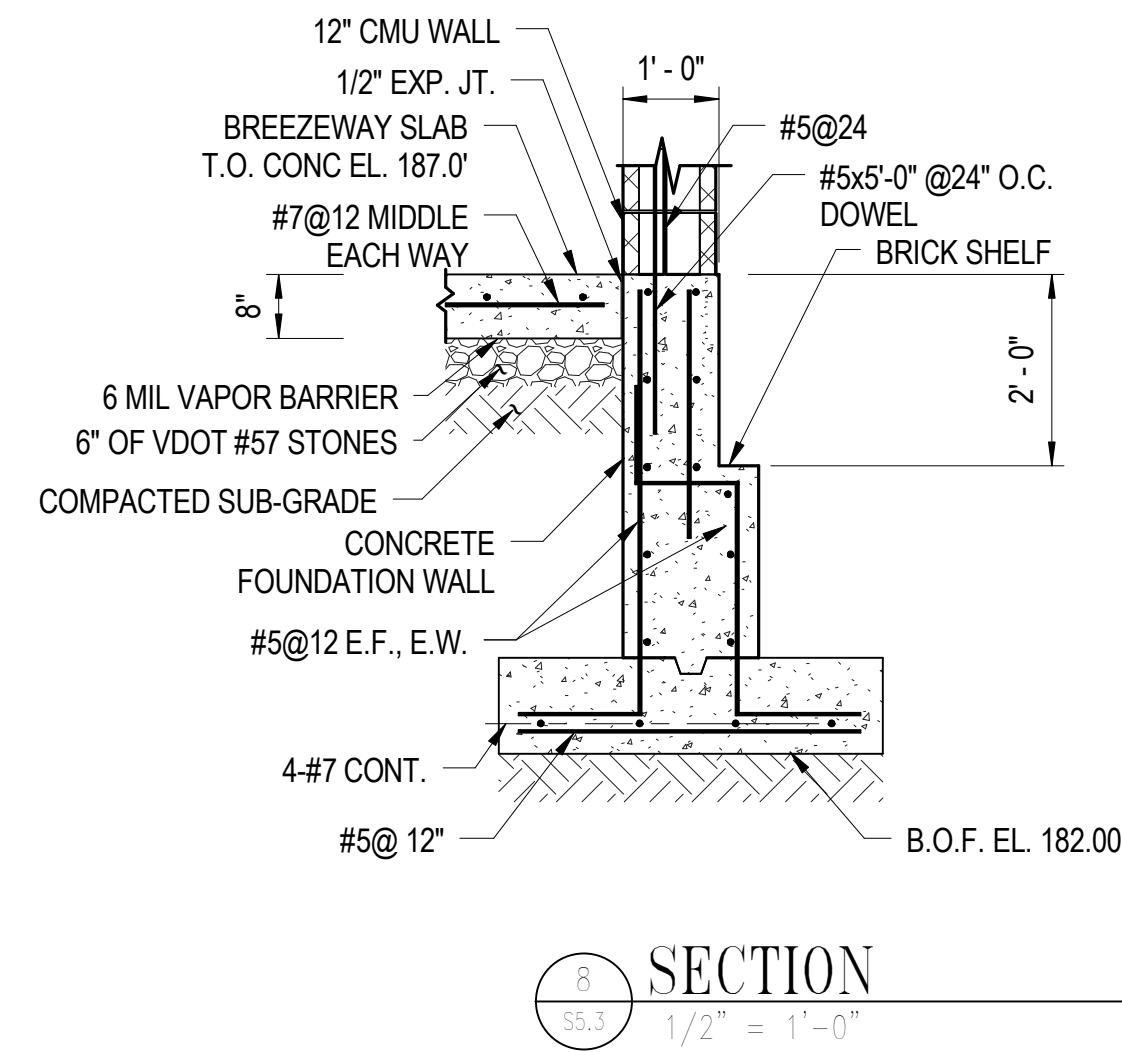
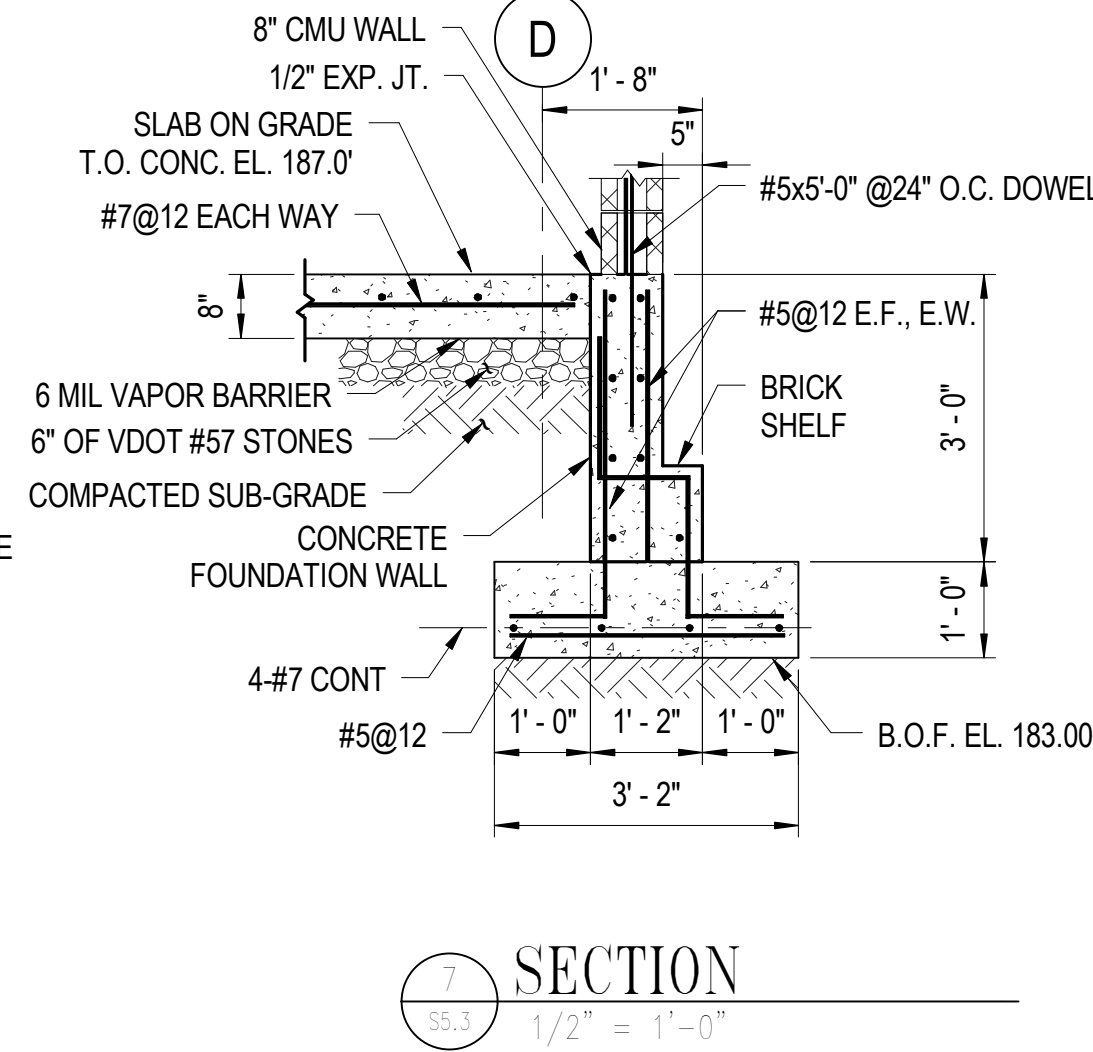
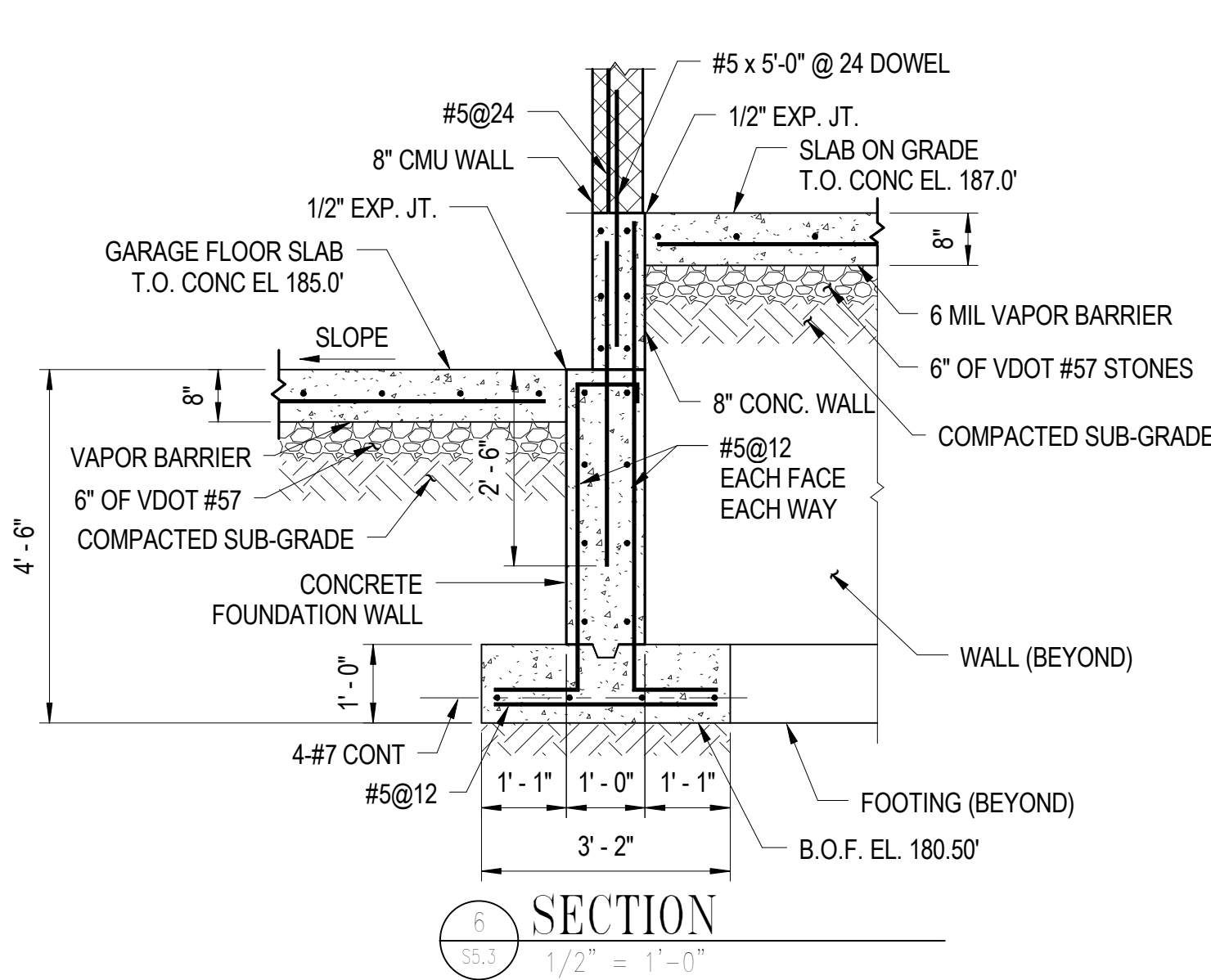
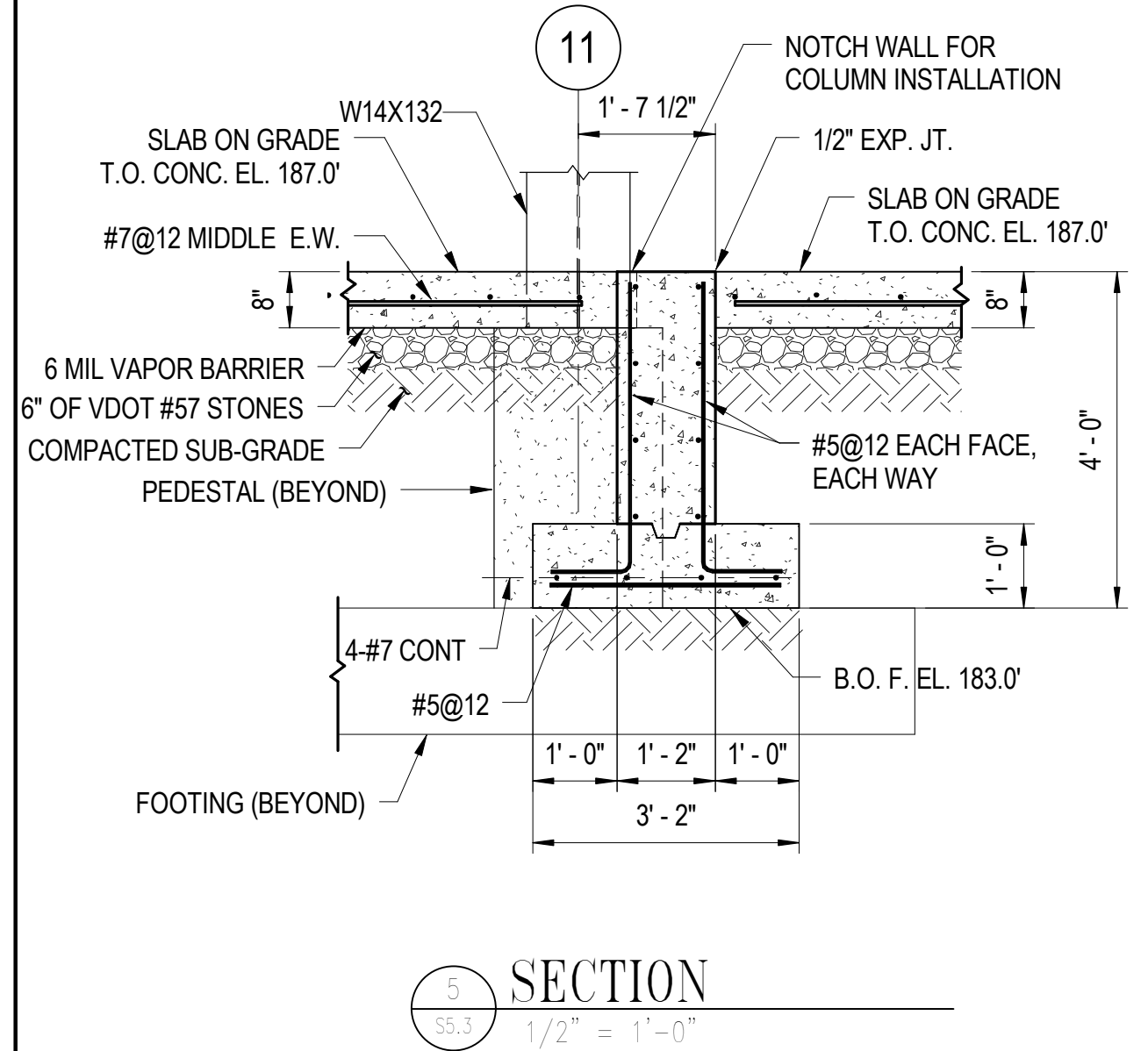
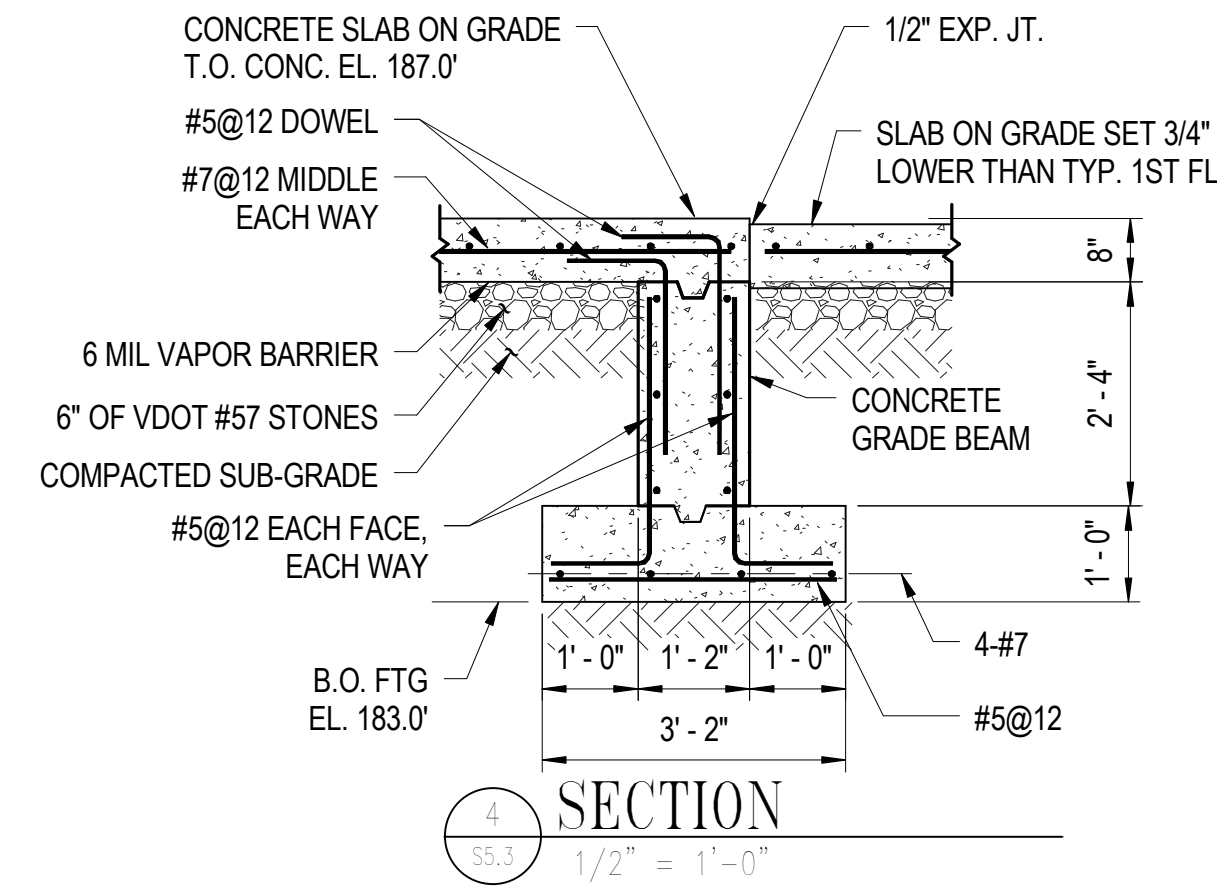
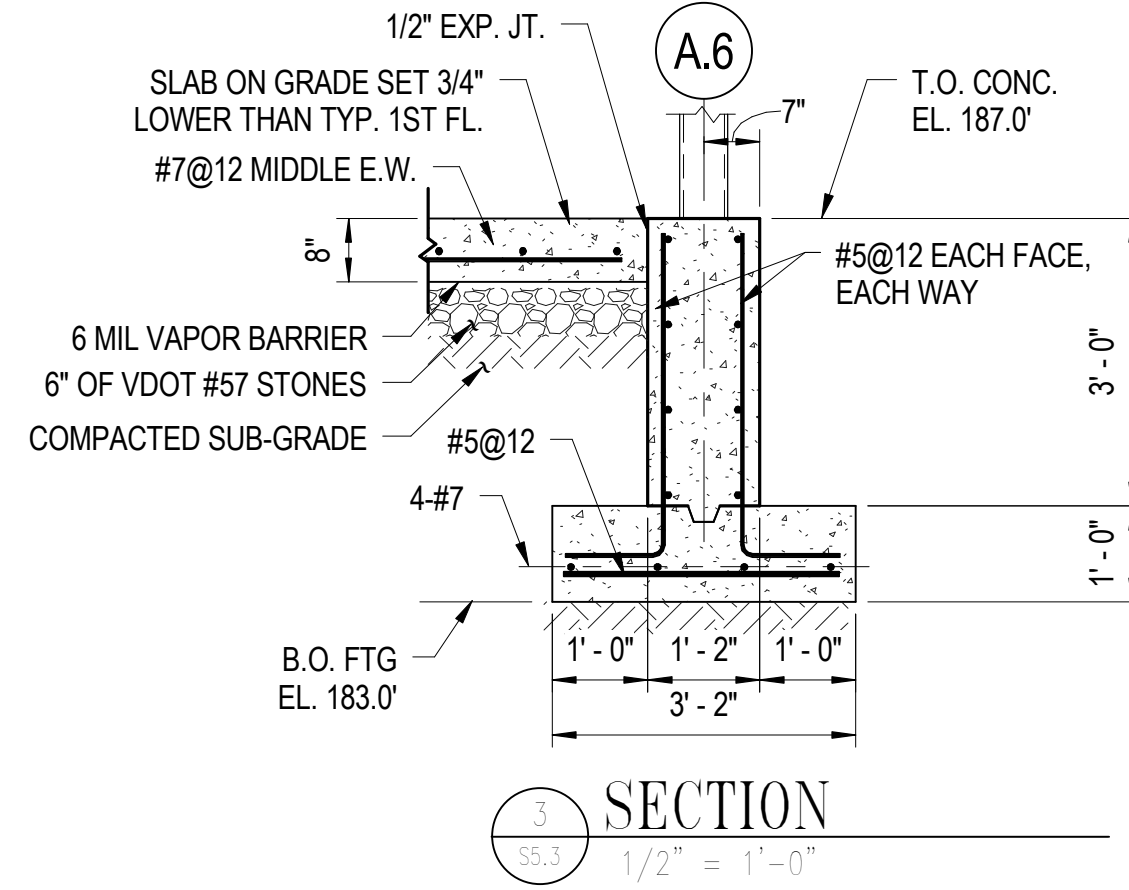
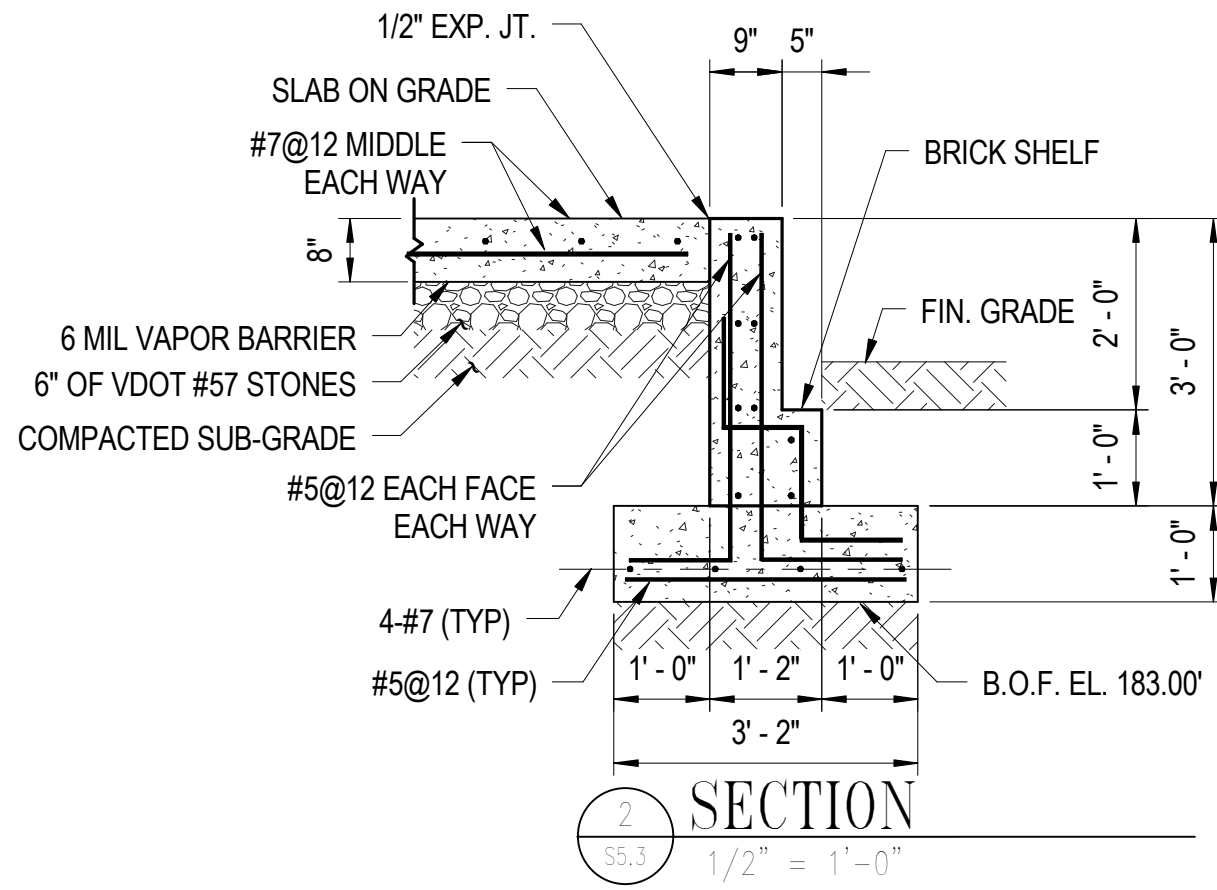
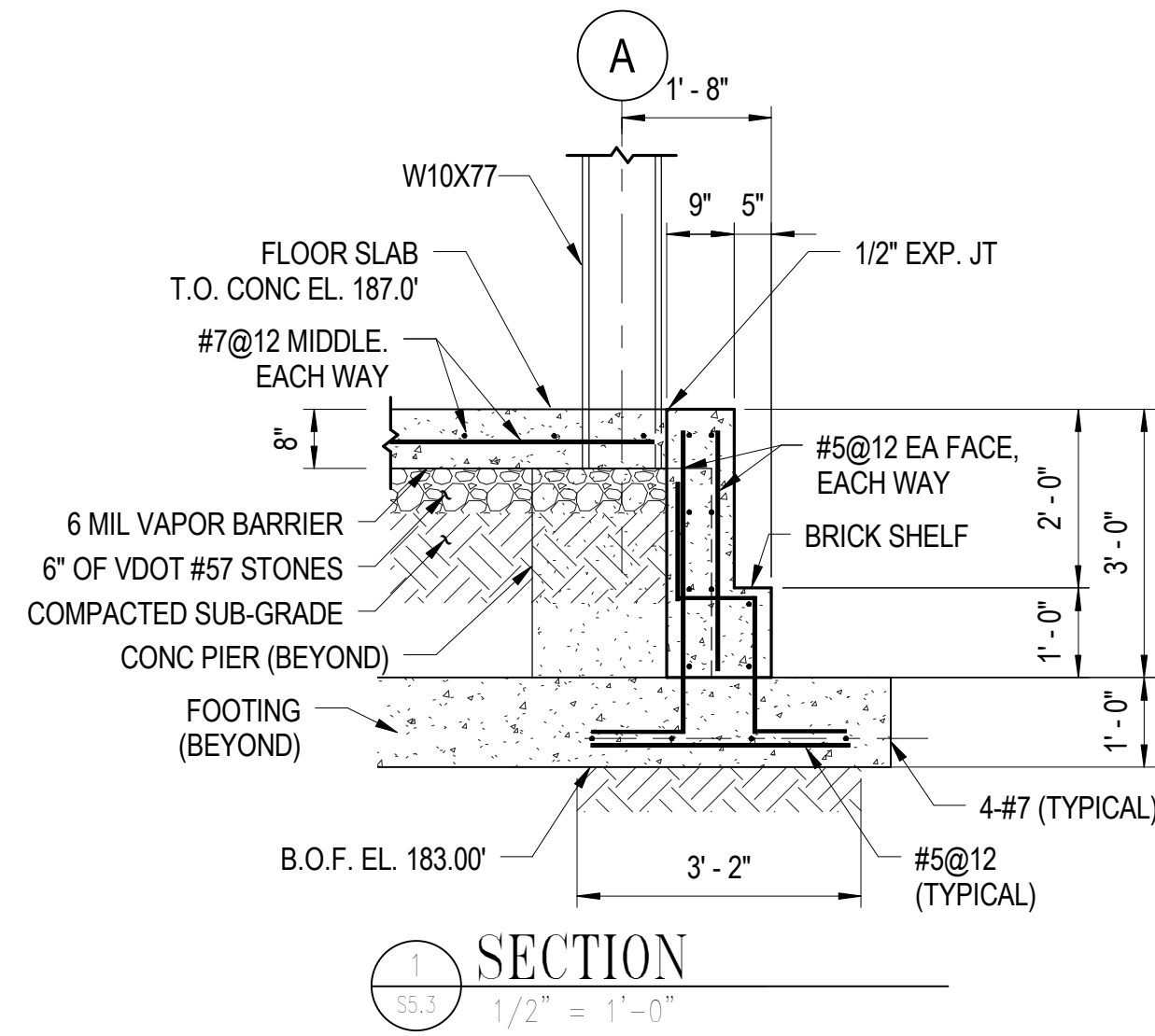
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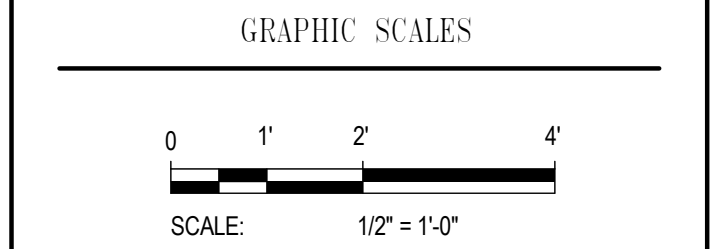
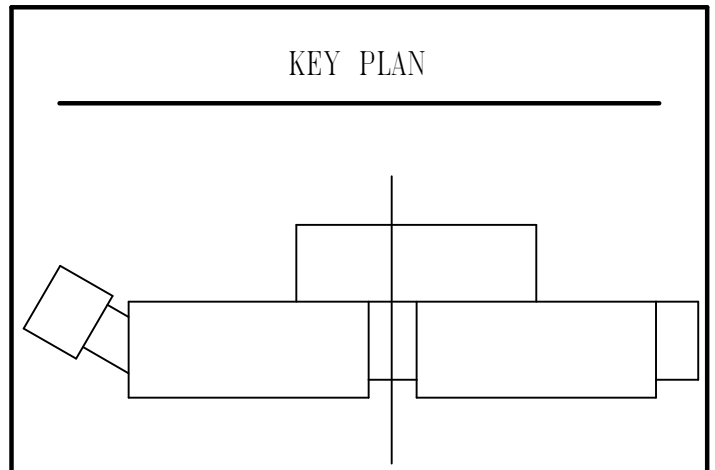
SECTIONS		
Drawing No.		
S5.2		
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Date: 01/25/09	Sheet 131 of 223	
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SECTIONS		
Drawing No.		
S5.3		
Scale: 1/2" = 1'-0"		
Date: 01/25/09	Sheet 132 of 223	
Des: CV	Drawn: AAB	Check: EF

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KEY PLAN

The key plan shows a site layout with several rectangular blocks. A large rectangular block is on the left, with a smaller rectangular block attached to its top-left corner. To the right of this large block is a smaller rectangular block. Further right is another large rectangular block, and to its right is a small rectangular block. A vertical line runs through the center of the site, and a horizontal line runs across the top. A small rectangular block is located at the top center, between the horizontal line and the vertical line.

0 1' 2' 3'

SCALE: $3/4" = 1'-0"$

0 6" 1' 2'

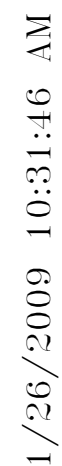
SCALE: $1" = 1'-0"$

License #1234 Exp. Date 10/10/03

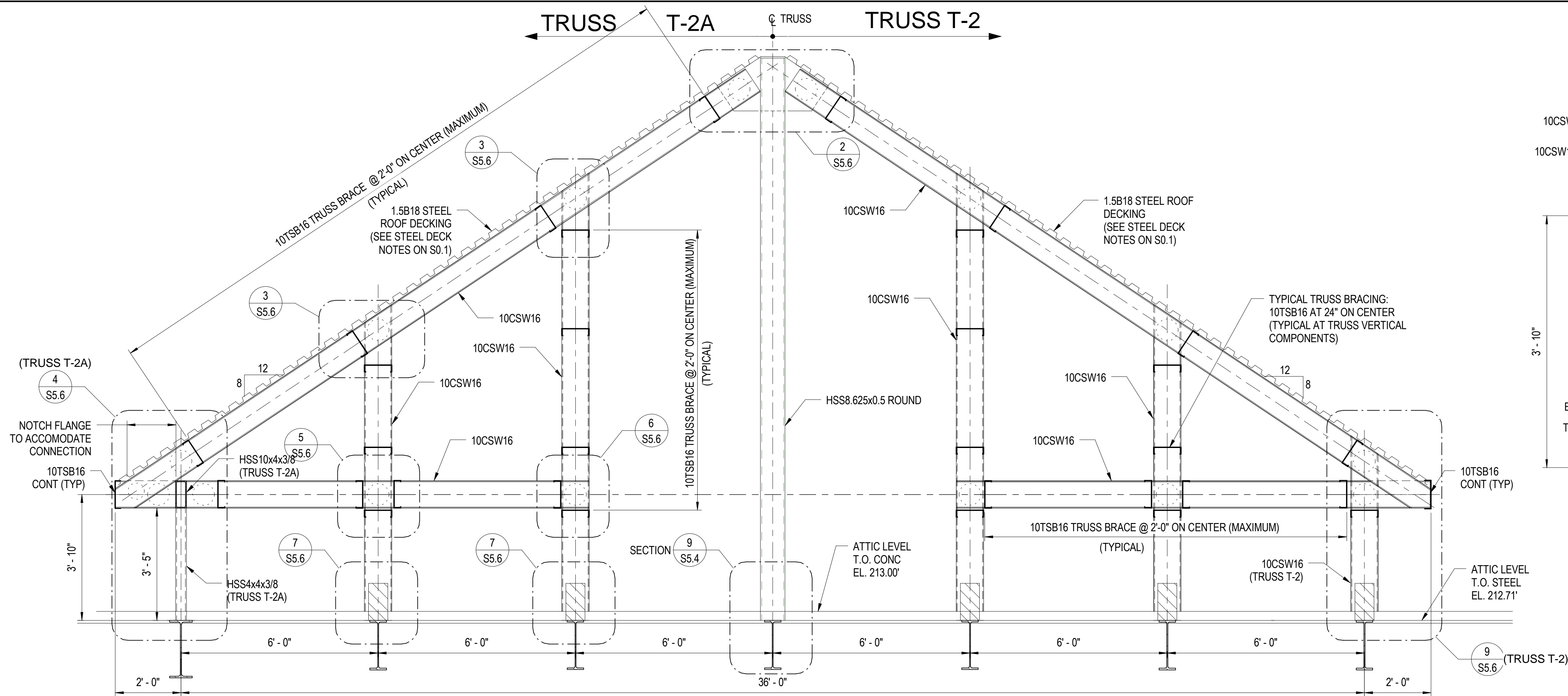
801 South Caroline Street, Baltimore, MD 21231
WHITMAN, REQUARDT & ASSOCIATES, LLP
ENGINEERS, ARCHITECTS AND PLANNERS

S5.4

Des: EF	Drawn: AAB	Check: EF
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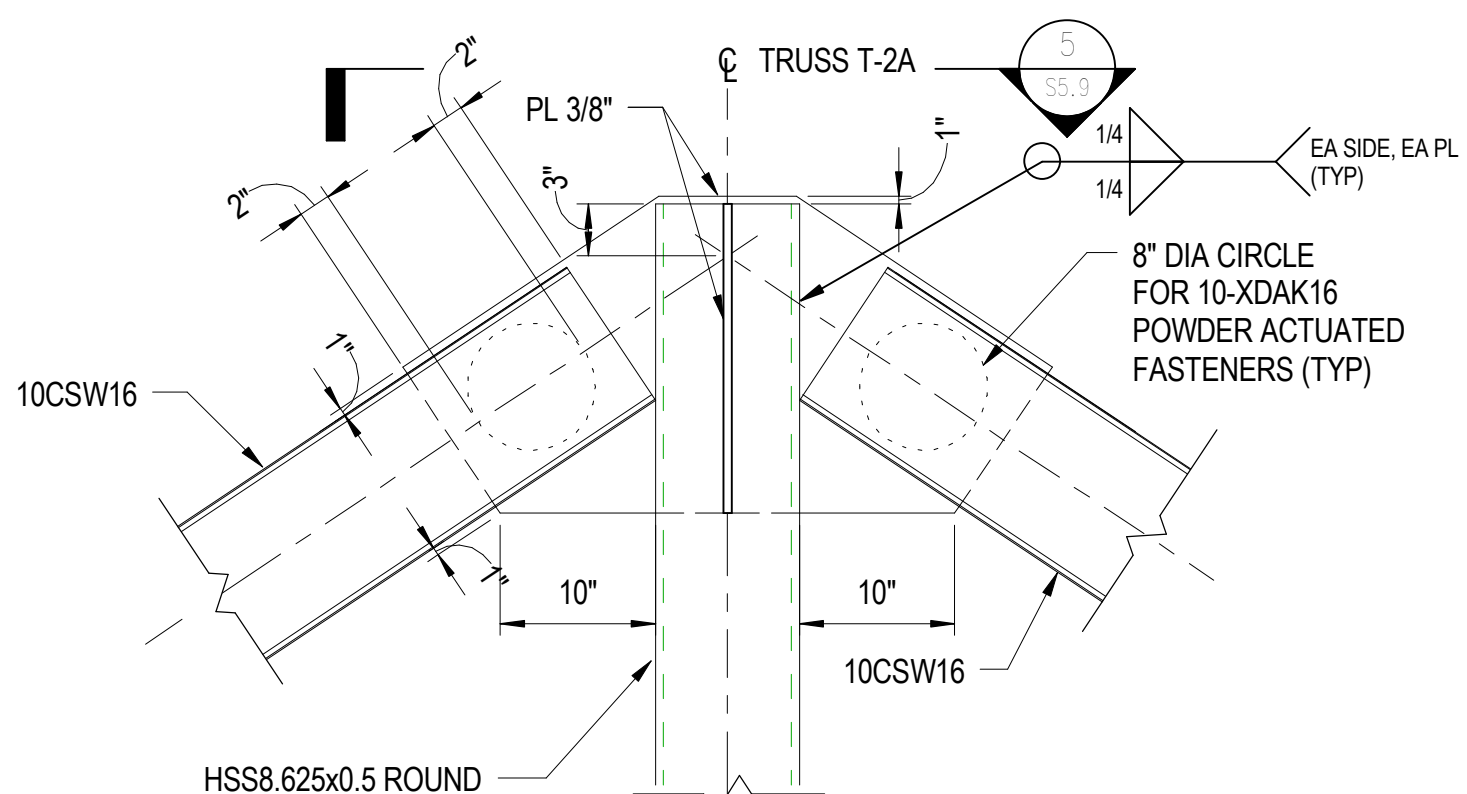


1/26/2009 10:31:50 AM



NOTE: ALL JOINT CONNECTIONS AND BRACING CONFIGURATION SYMMETRICAL ABOUT TRUSS CENTERLINE (U.O.N.)

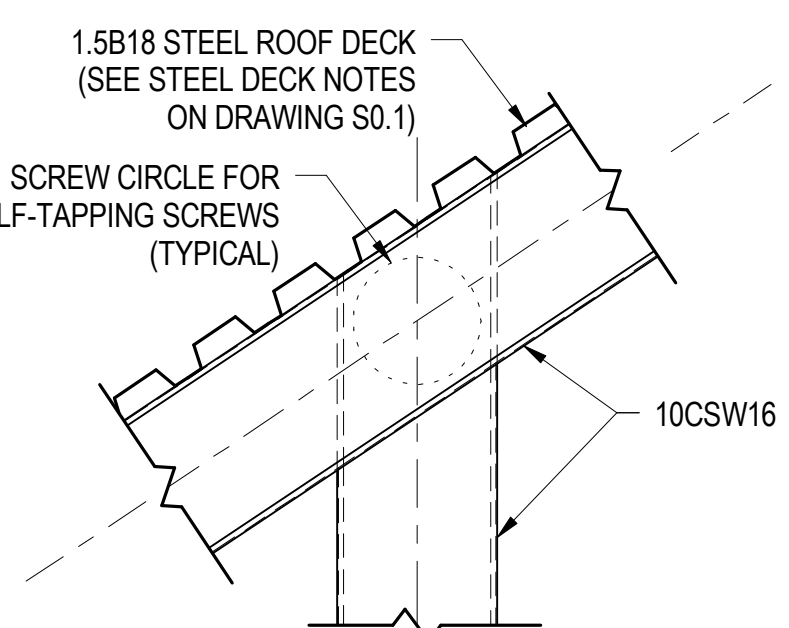
ROOF TRUSS T-2/T-2A ELEVATION



NOTE: STEEL DECKING NOT SHOWN FOR CLARITY

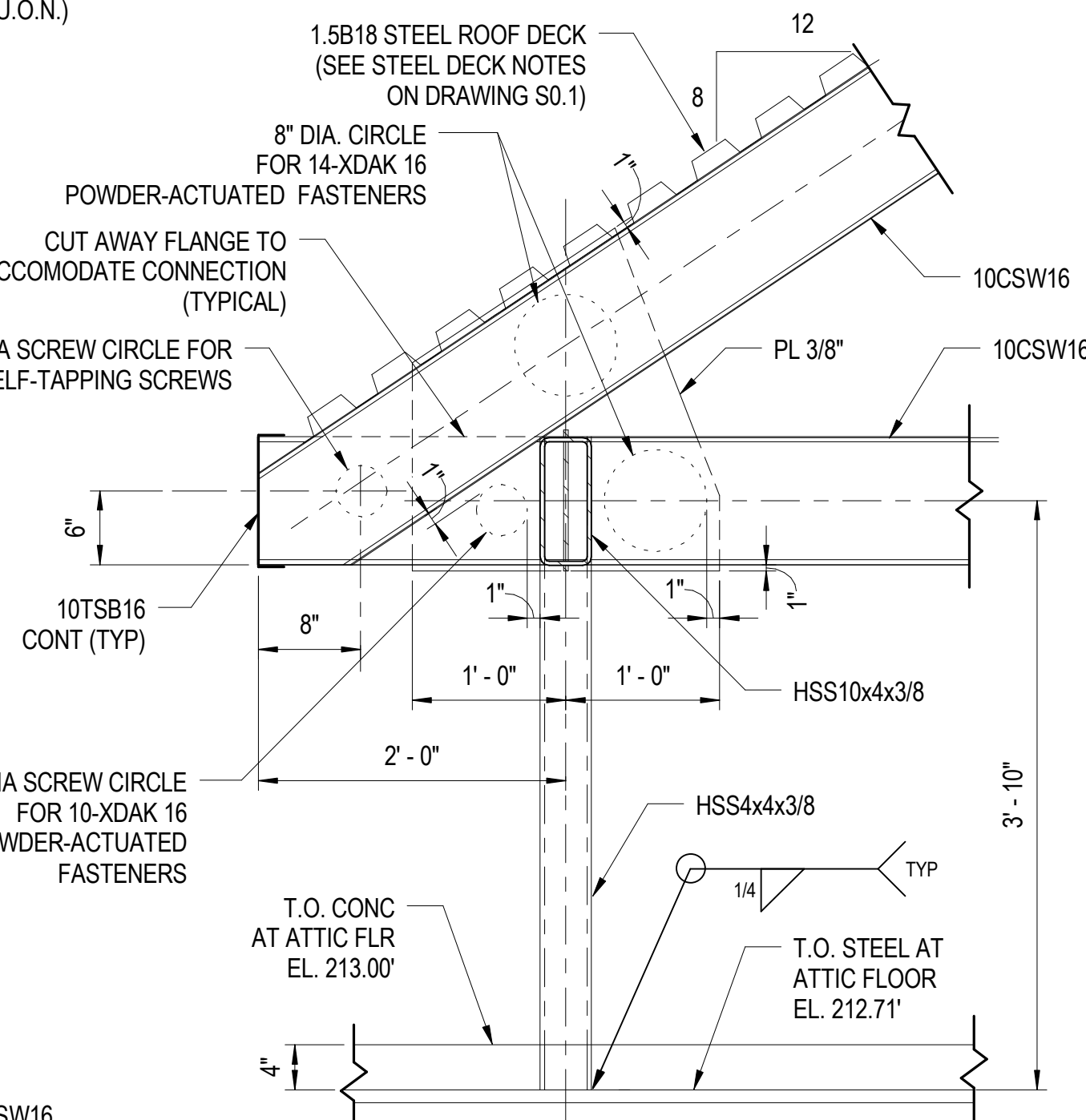
DETAIL 1

1\"/>



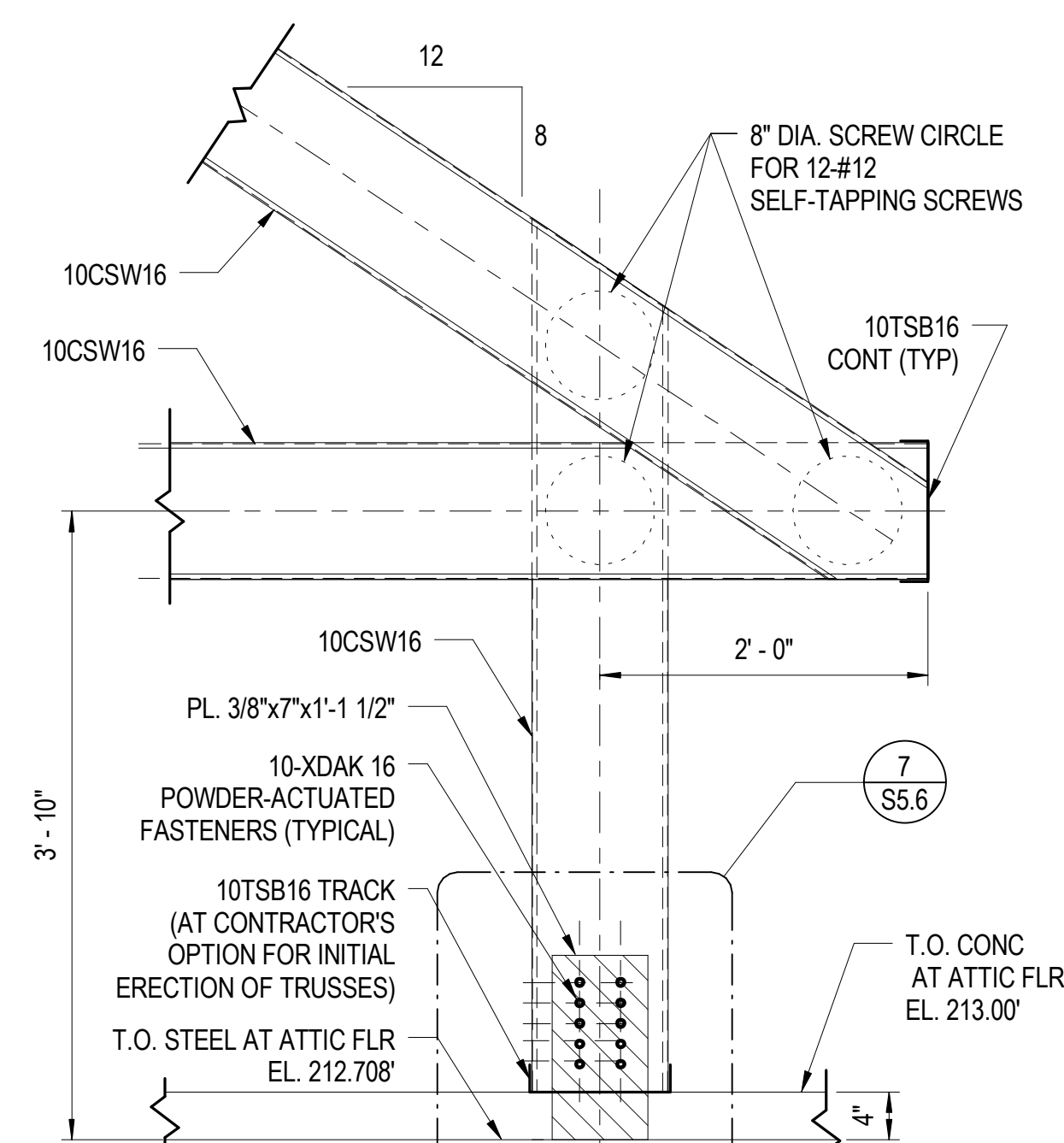
DETAIL 2

1\"/>



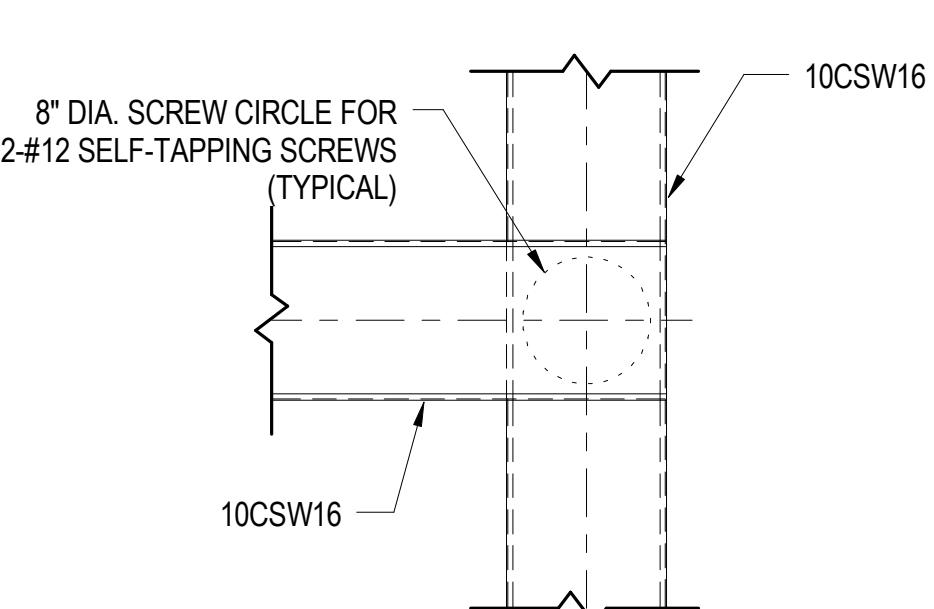
DETAIL (TRUSS T-2A)

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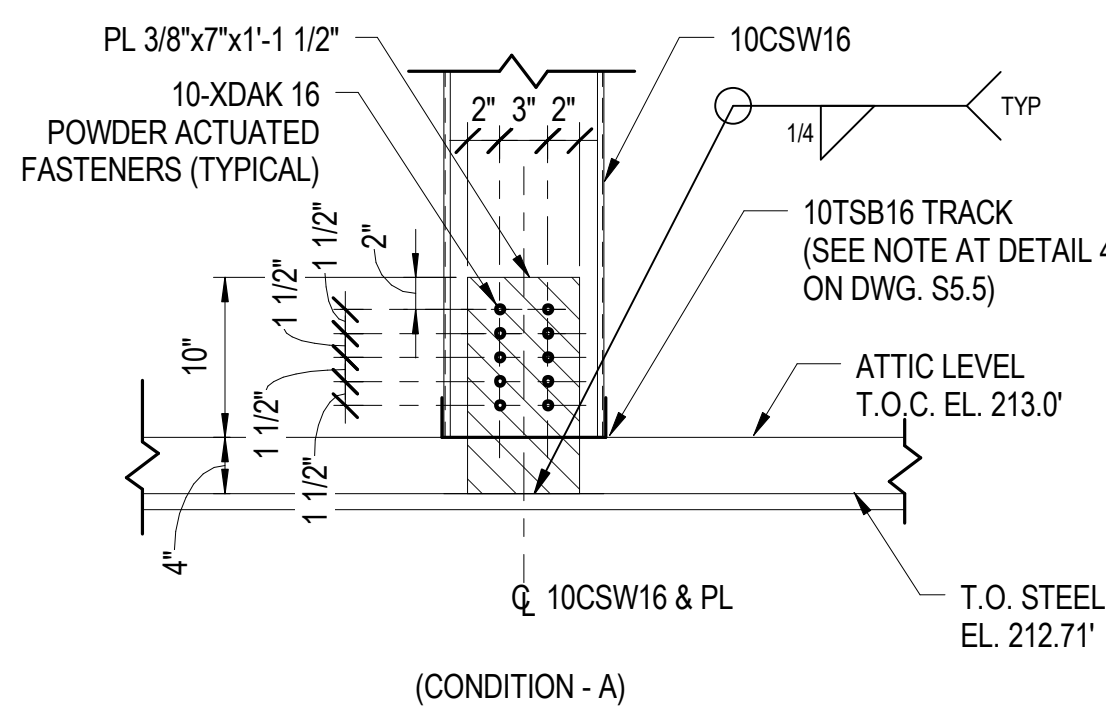
DETAIL (TRUSS T-2)

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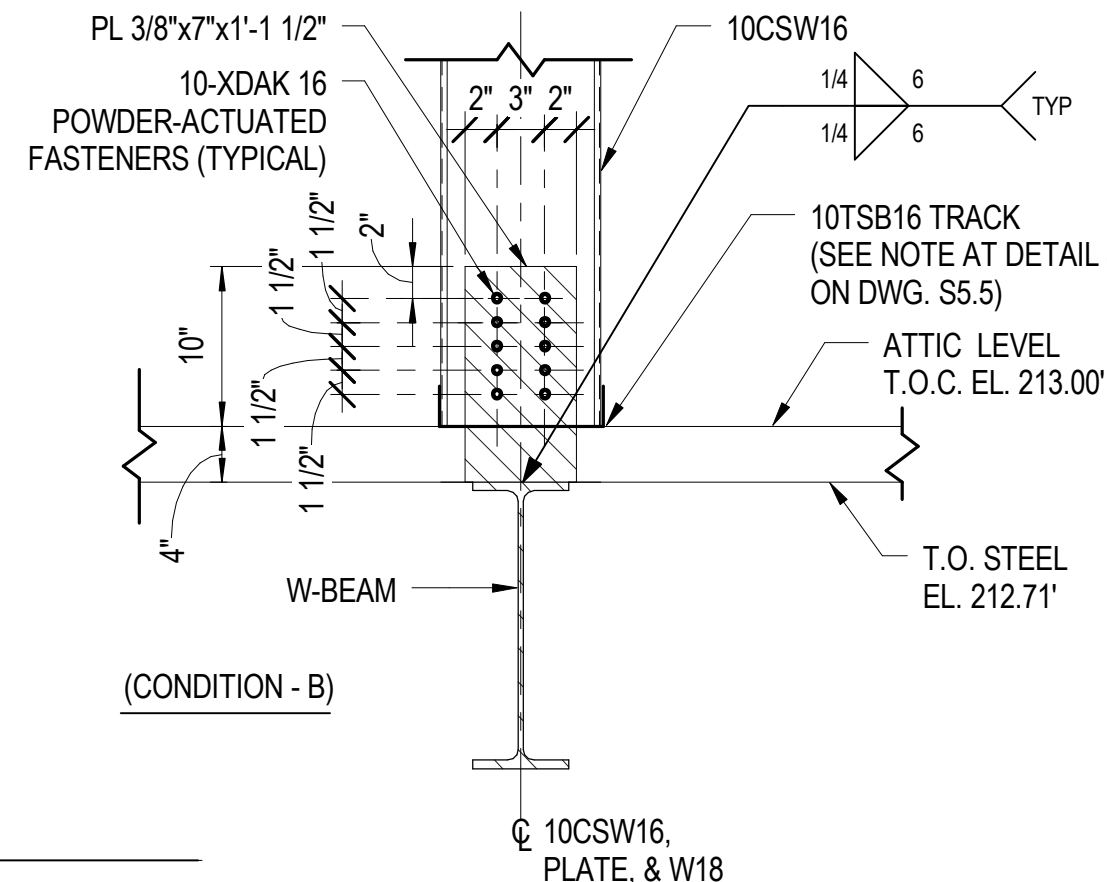
DETAIL 5

1\"/>



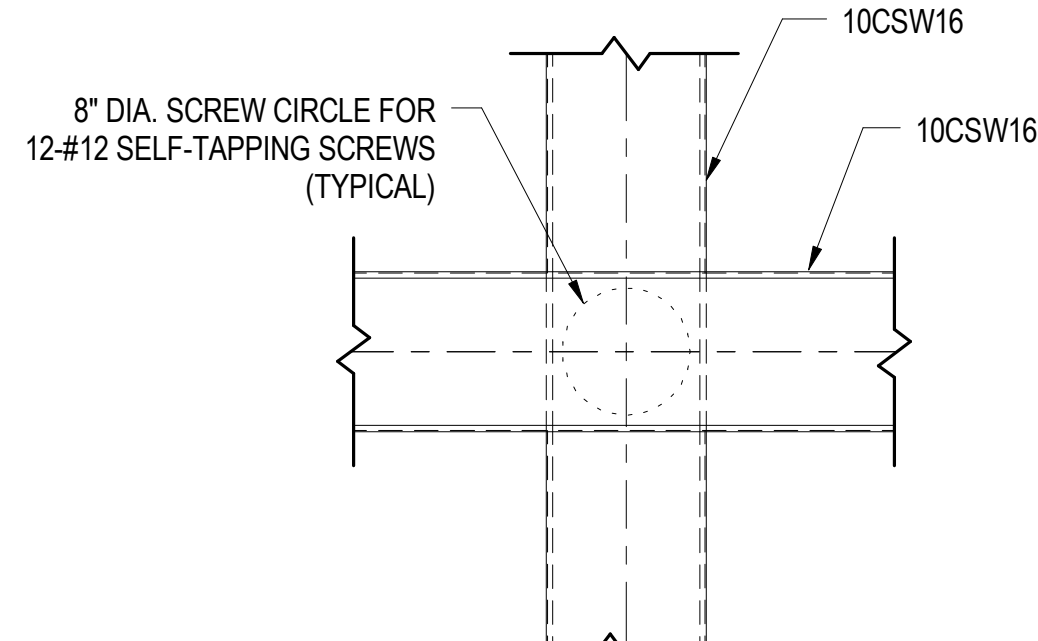
DETAIL 6

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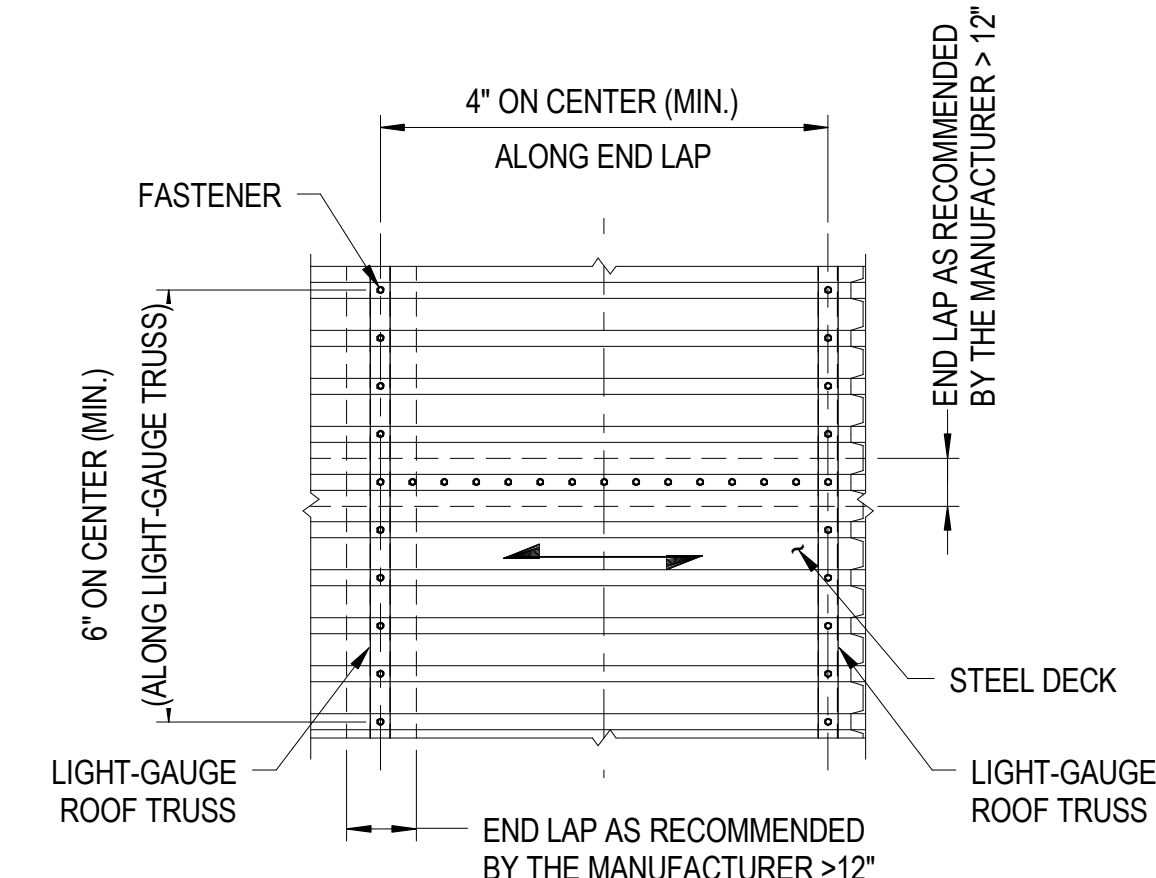
DETAIL 7

1\"/>



DETAIL 8

1\"/>



- NOTES:
- USE #10 SELF TAPPING SCREWS WHEN CONNECTING TO LIGHT-GAUGE.
 - USE X-DAK 16 WHEN CONNECTING TO STRUCTURAL STEEL AND STEEL PLATES. LAP DISTANCE SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS, BUT NOT LESS THAN 12"
 - DO NOT STAGGER END LAPS.
 - USE 3-SPANS CONTINUOUS ON LIGHT-GAUGE TRUSSES.

TYPICAL STEEL DECK TO LIGHT-GAUGE TRUSS FASTENING PATTERN

NO SCALE

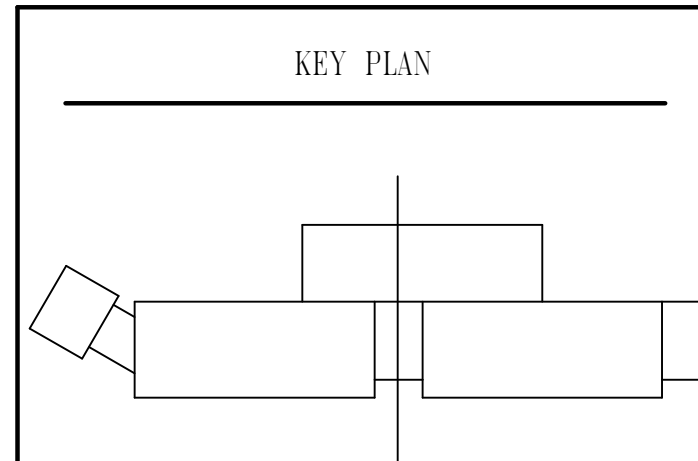
ISSUED	
35% SUBMISSION	07/06/07
95% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
BID DOCUMENTS	01/25/09



COUNTY OF KING GEORGE, VIRGINIA KING GEORGE COUNTY GOVERNMENT CENTER

10459 COURTHOUSE ROAD
KING GEORGE, VA 22485

SHERIFF'S OFFICE

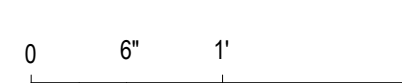


KEY PLAN

GRAPHIC SCALES



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



SCALE: 1" = 1'-0"

SIGNATURE

STAMP NAME

License #1234

Exp. Date 10/10/03



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ROOF TRUSS T-2/T-2A ELEVATIONS & DETAILS

Drawing No.

S5.6

Scale: As indicated

Date: 01/25/09 Sheet 135 of 223

Des: CV Drawn: AAB Check: EF

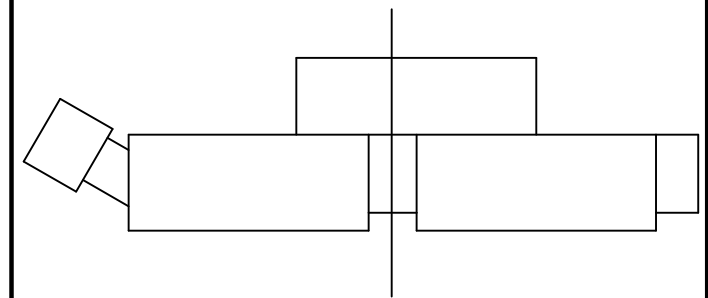
ISSUED		
35% SUBMISSION		07/06/07
65% SUBMISSION		04/14/08
REVISED 95% SUBMISSION		05/16/08
BID DOCUMENTS		01/25/09



COUNTY OF KING GEORGE, VIRGINIA
KING GEORGE COUNTY
GOVERNMENT CENTER
10459 COURTHOUSE ROAD
KING GEORGE, VA 22485

SHERIFF'S OFFICE

KEY PLAN



GRAPHIC SCALES

SIGNATURE

STAMP NAME

License #1234 Exp. Date 10/10/03



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ROOF TRUSS 3D VIEWS

Drawing No.

S5.7

Scale:		
Date: 01/25/09	Sheet 136 of 223	
Des: CV	Drawn: AAB	Check: EF

TRUSS T-2A
TRUSS T-3A

TRUSS T-7

TRUSS T-4

TRUSS T-5

TRUSS T-6

1 ROOF TRUSSES AT CANTILEVER

TRUSS T-3

TRUSS T-4

TRUSS T-5

TRUSS T-6

TRUSS T-7

TRUSS T-8

TRUSS T-9

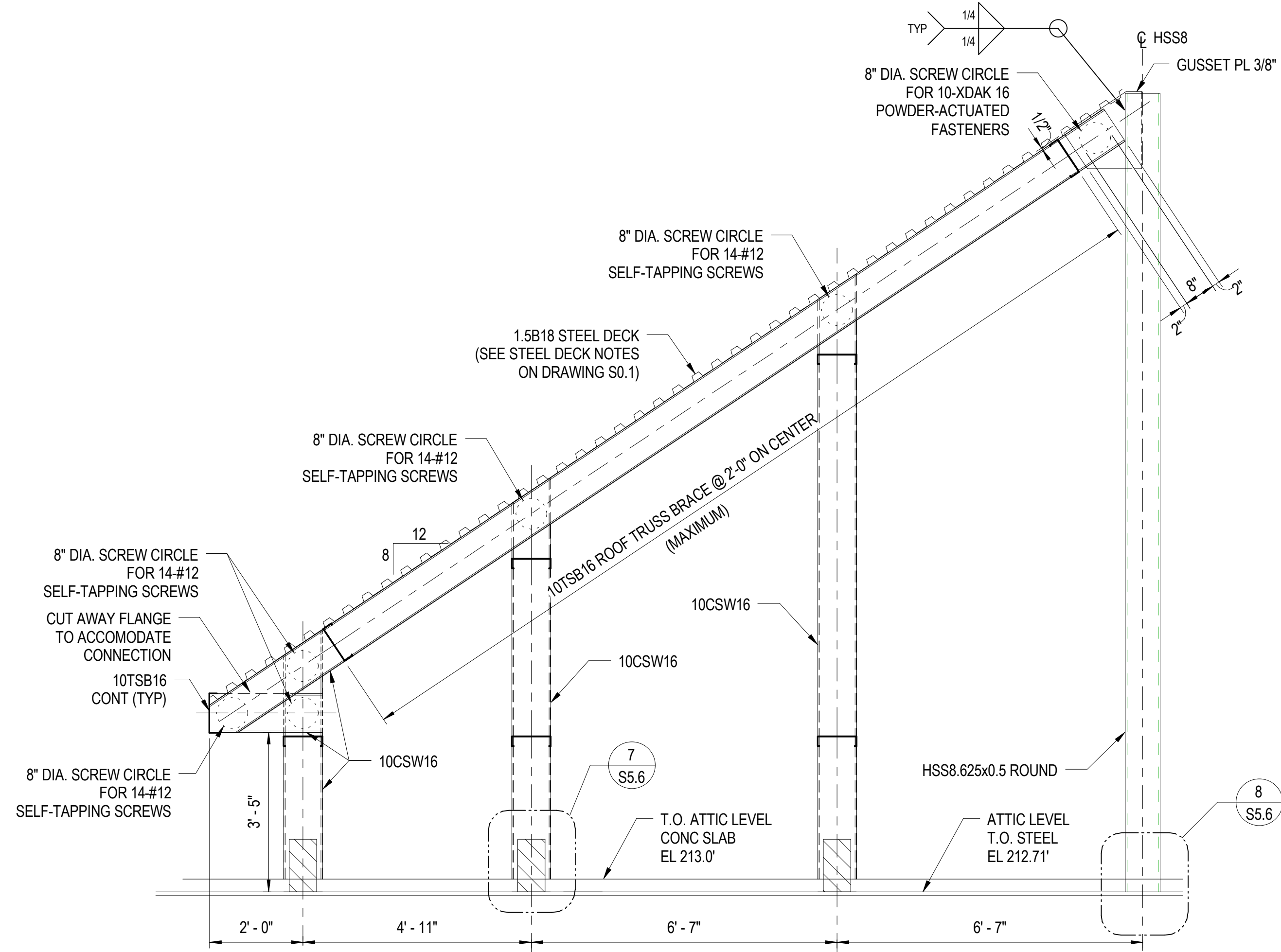
TRUSS T-10

TRUSS T-11

2 ROOF TRUSSES AT CANTILEVER

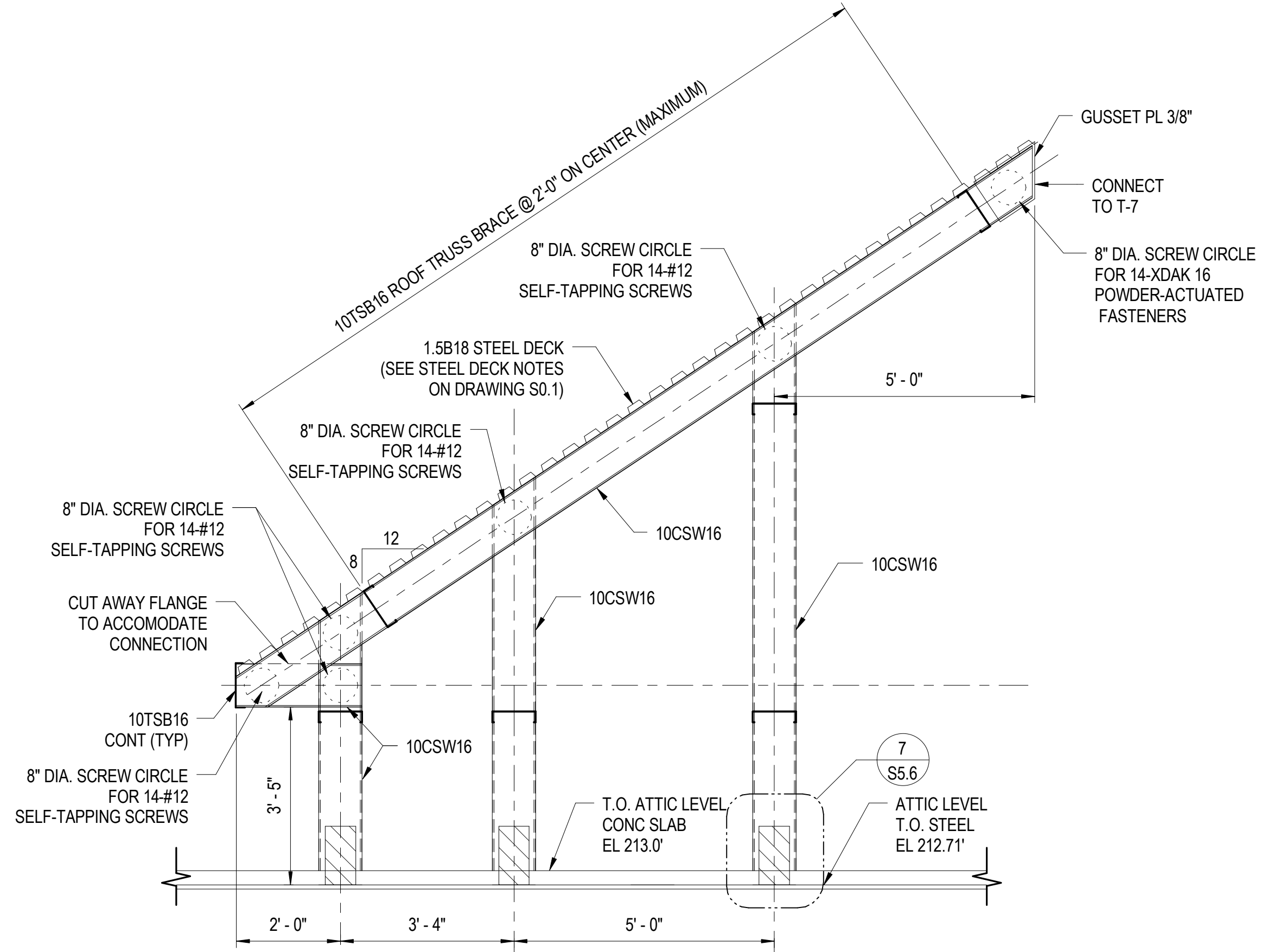
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1/26/2009 10:32:22 AM



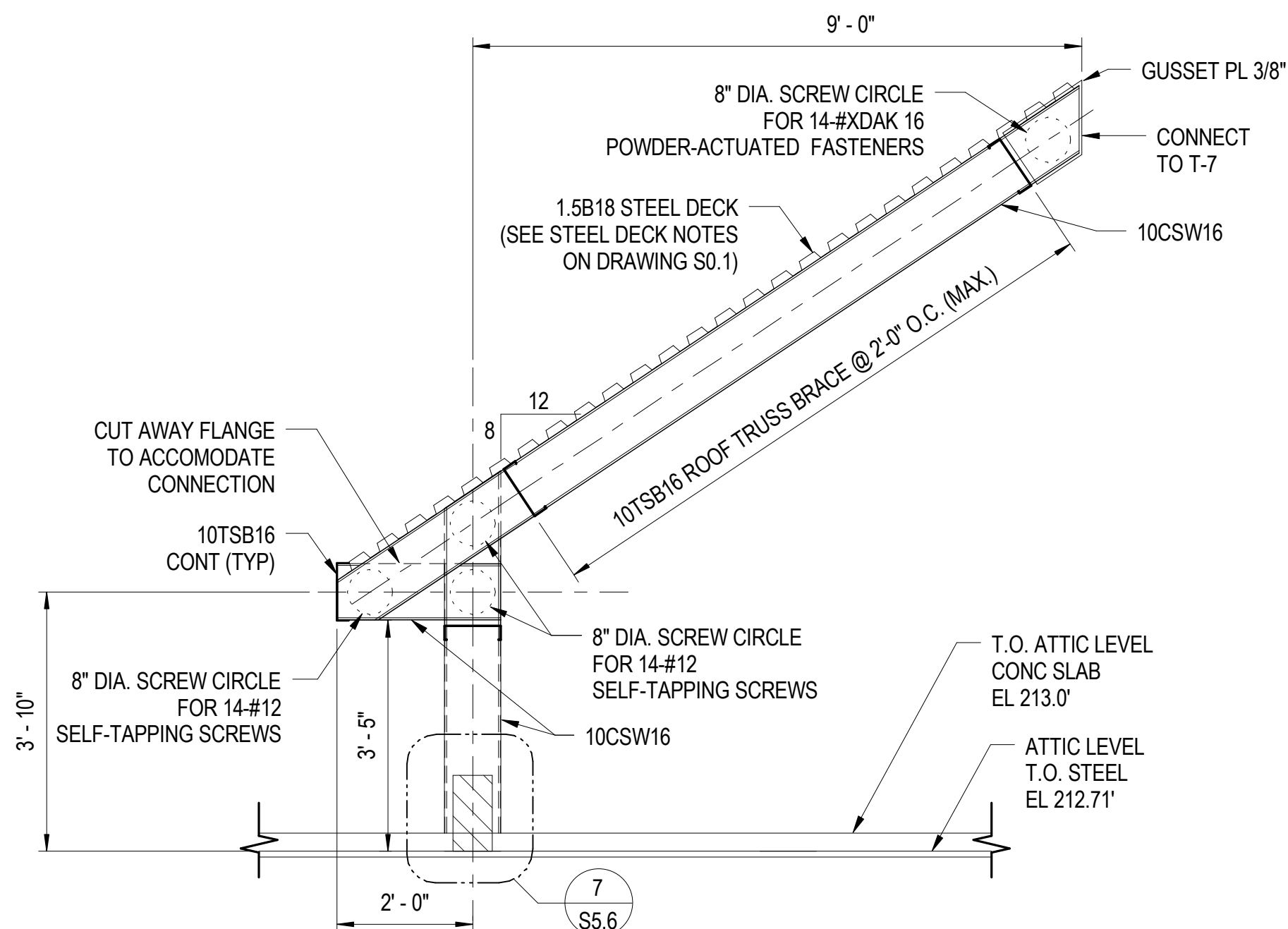
NOTE: REFER TO TRUSS T-1 ELEVATION ON DRAWING S5.5 FOR TRUSS BRACING SPACING ARRANGEMENT.

1 ROOF TRUSS T-8 ELEVATION
1/2" = 1'-0"



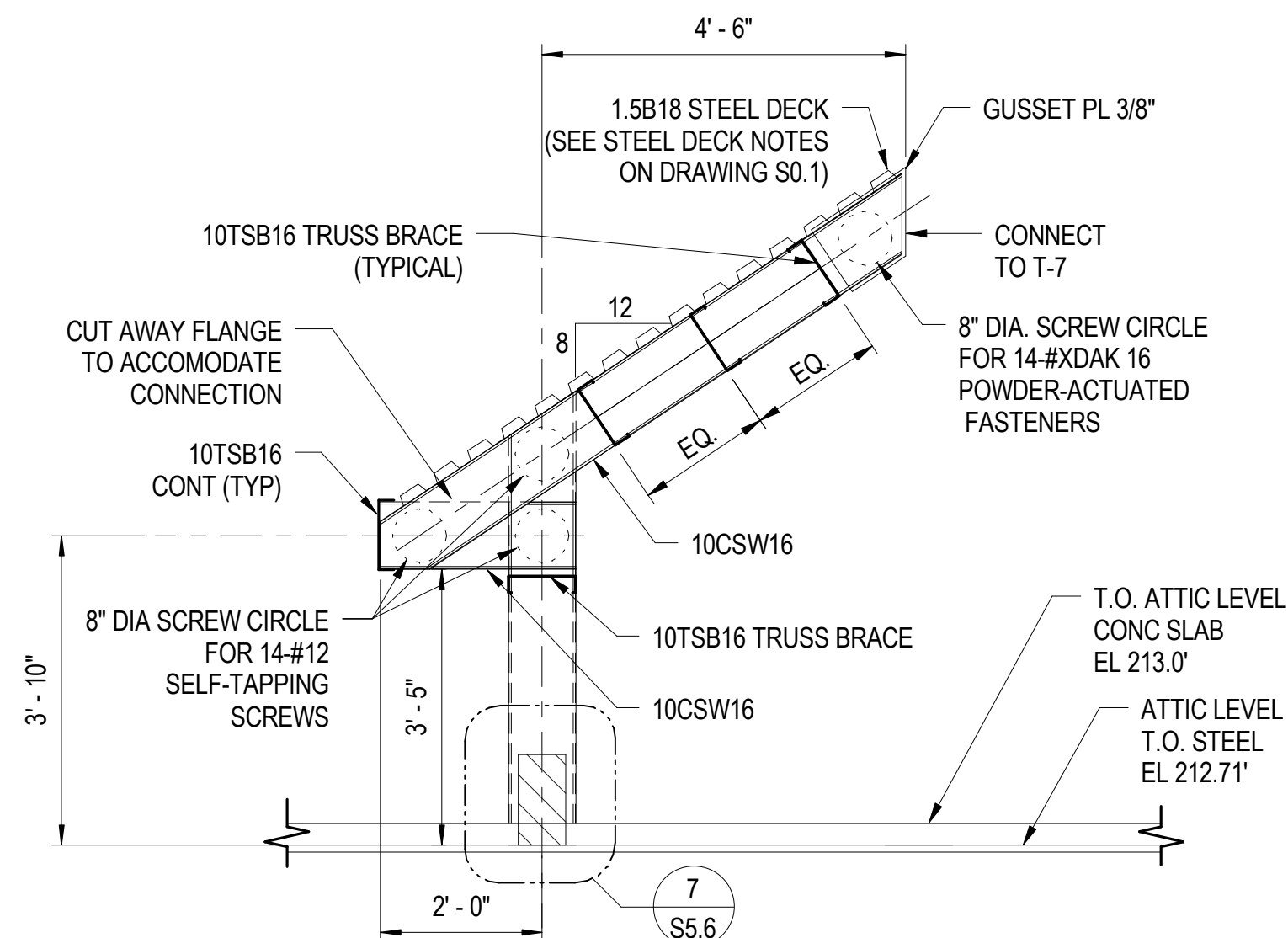
NOTE: REFER TO TRUSS T-1 ELEVATION ON DRAWING S5.5 FOR TRUSS BRACING SPACING ARRANGEMENT.

2 ROOF TRUSS T-9 ELEVATION
1/2" = 1'-0"



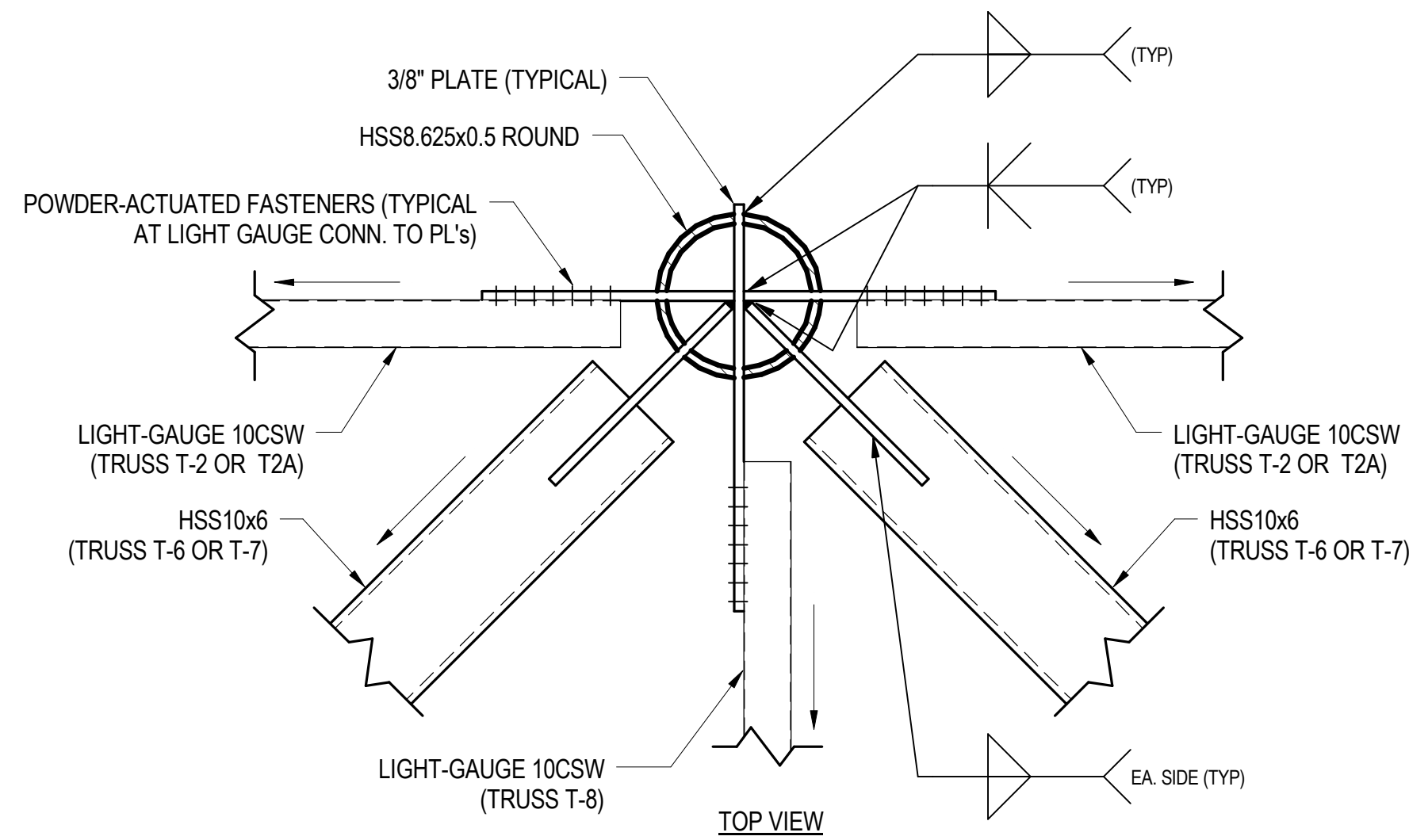
NOTE: REFER TO TRUSS T-1 ELEVATION ON DRAWING S5.5 FOR TRUSS BRACING SPACING ARRANGEMENT.

3 ROOF TRUSS T-10 ELEVATION
1/2" = 1'-0"



NOTE: REFER TO TRUSS T-1 ELEVATION ON DRAWING S5.5 FOR TRUSS BRACING SPACING ARRANGEMENT.


4 ROOF TRUSS T-11 ELEVATION
1/2" = 1'-0"



NOTE: REFER TO TRUSS ELEVATIONS AND DETAILS ON S5.5 THRU S5.9 FOR COORDINATING INFORMATION.

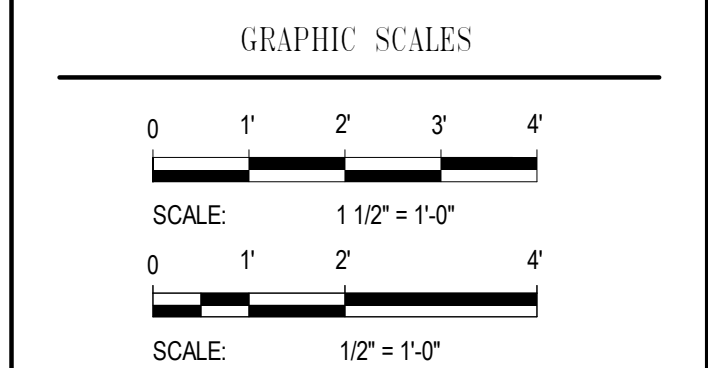
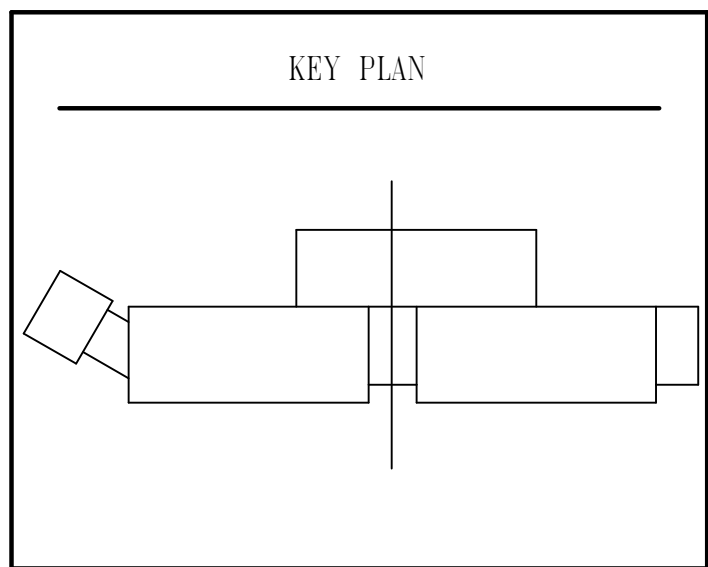
5 CONNECTION DETAIL AT TOP OF HSS8
1/2" = 1'-0"

ISSUED	
35% SUBMISSION	07/06/07
95% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
BID DOCUMENTS	11/25/08



COUNTY OF KING GEORGE, VIRGINIA
KING GEORGE COUNTY
GOVERNMENT CENTER
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SHERIFF'S OFFICE



SIGNATURE

STAMP NAME

License #1234 Exp. Date 10/10/03

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ROOF TRUSS T-8, T-9, T-10,
T-11 ELEVATIONS & DETAILS

Drawing No.

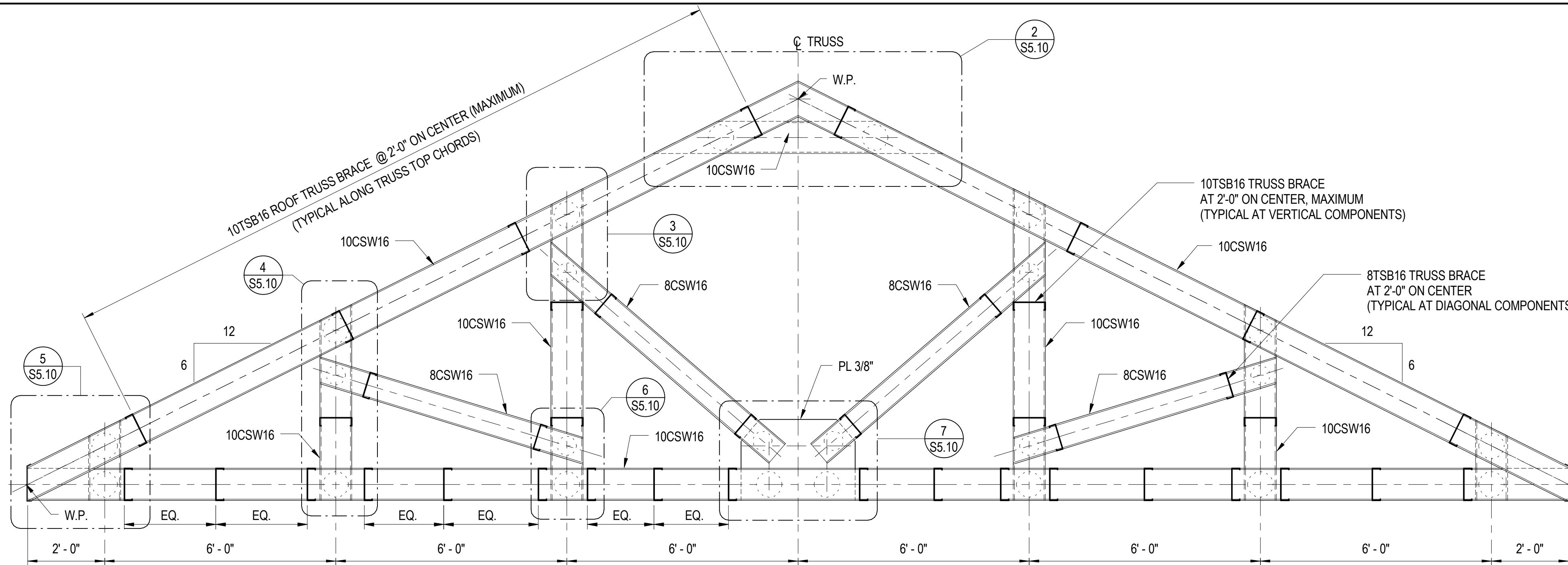
S5.9

Scale: As indicated

Date: 01/25/09 Sheet 138 of 223

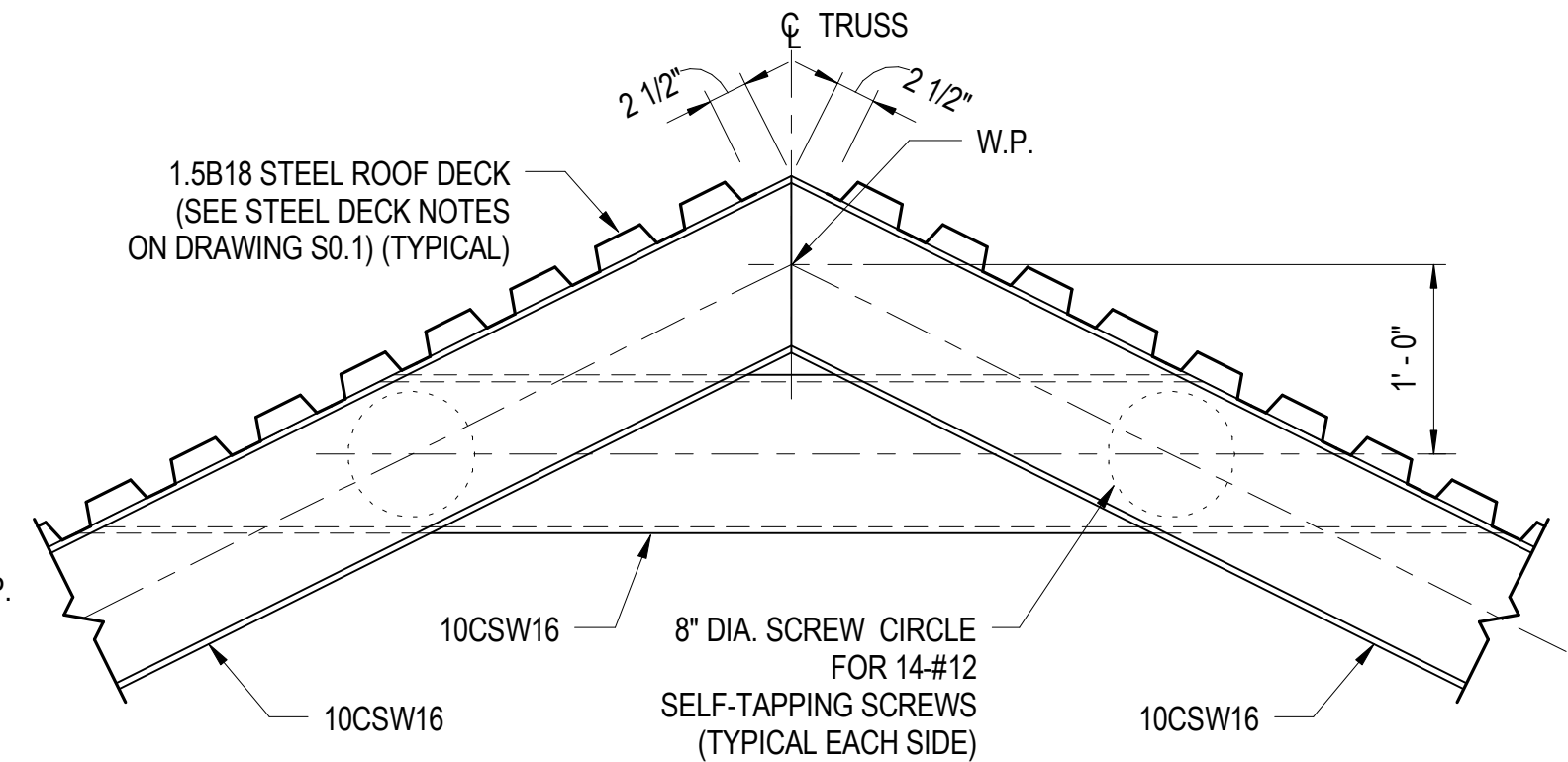
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1/26/2009 10:32:23 AM

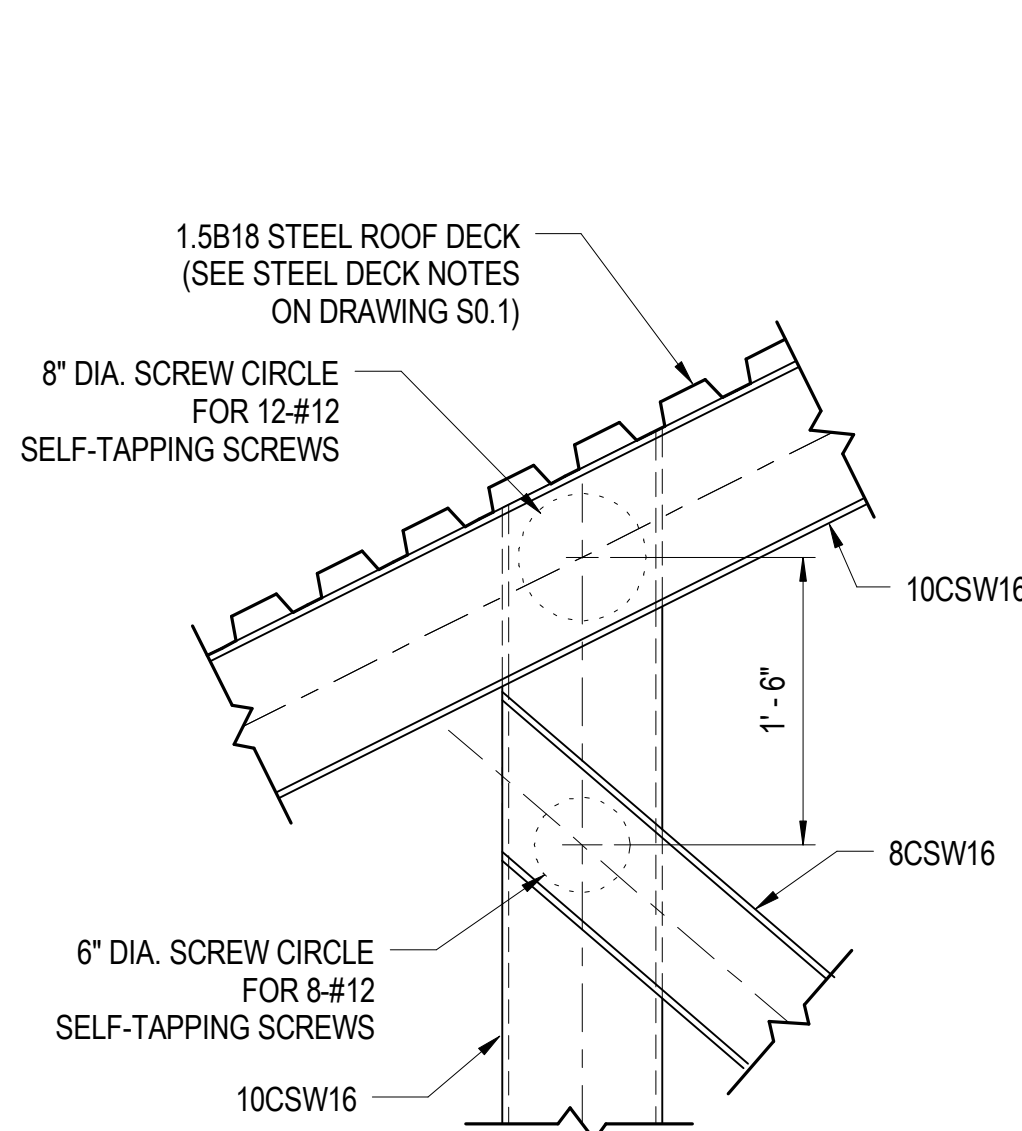


NOTE: ALL JOINT CONNECTIONS AND BRACING (BRIDGING) ARE SYMMETRICAL ABOUT THE TRUSS CENTERLINE

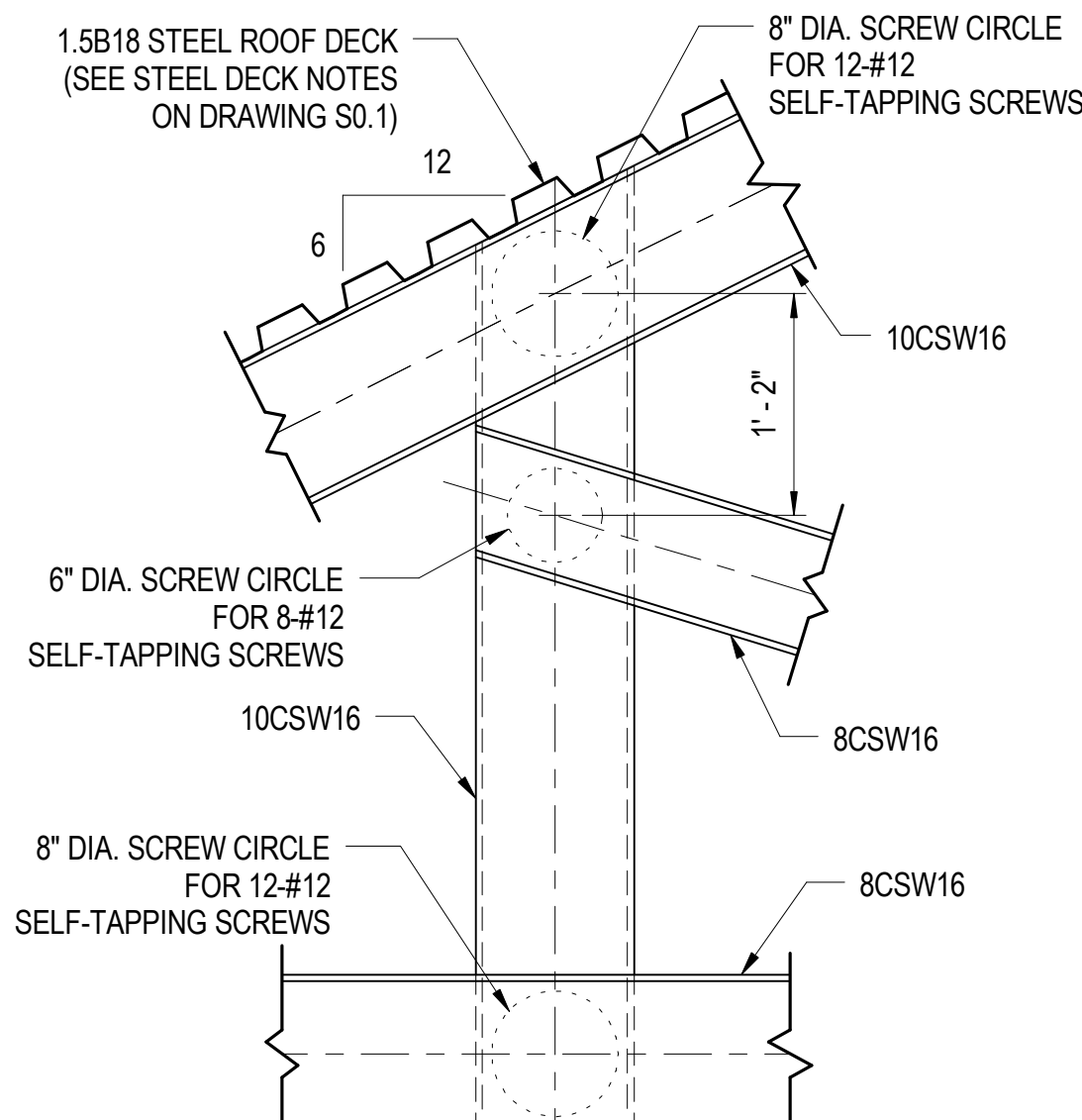
1 ELEVATION-GARAGE ROOF TRUSS
S5.10 1/2" = 1'-0"



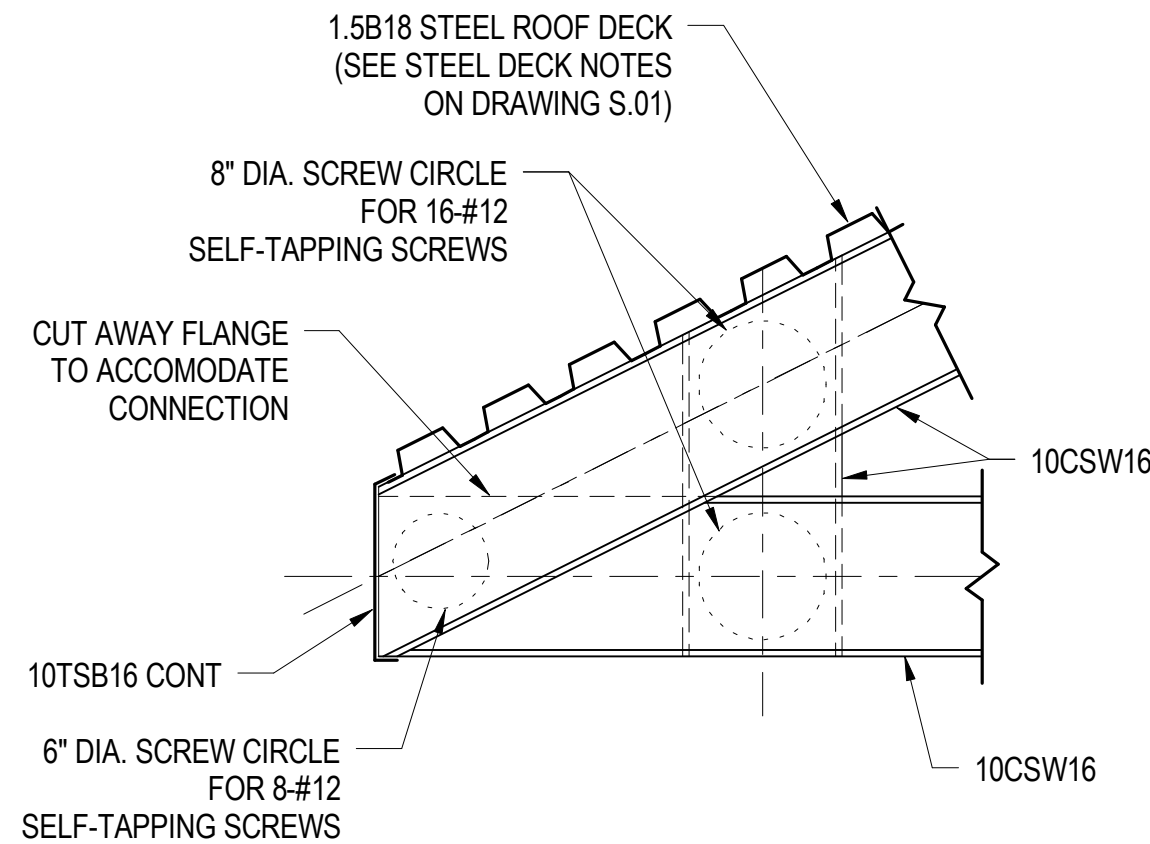
2 DETAIL
S5.10 1" = 1'-0"



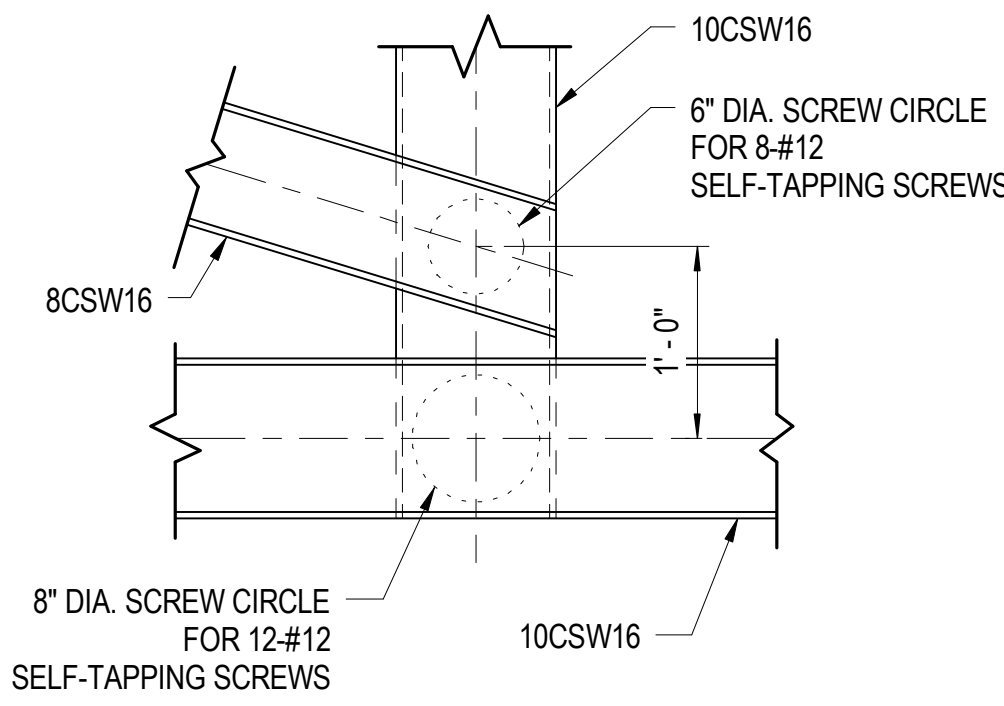
3 DETAIL
S5.10 1" = 1'-0"



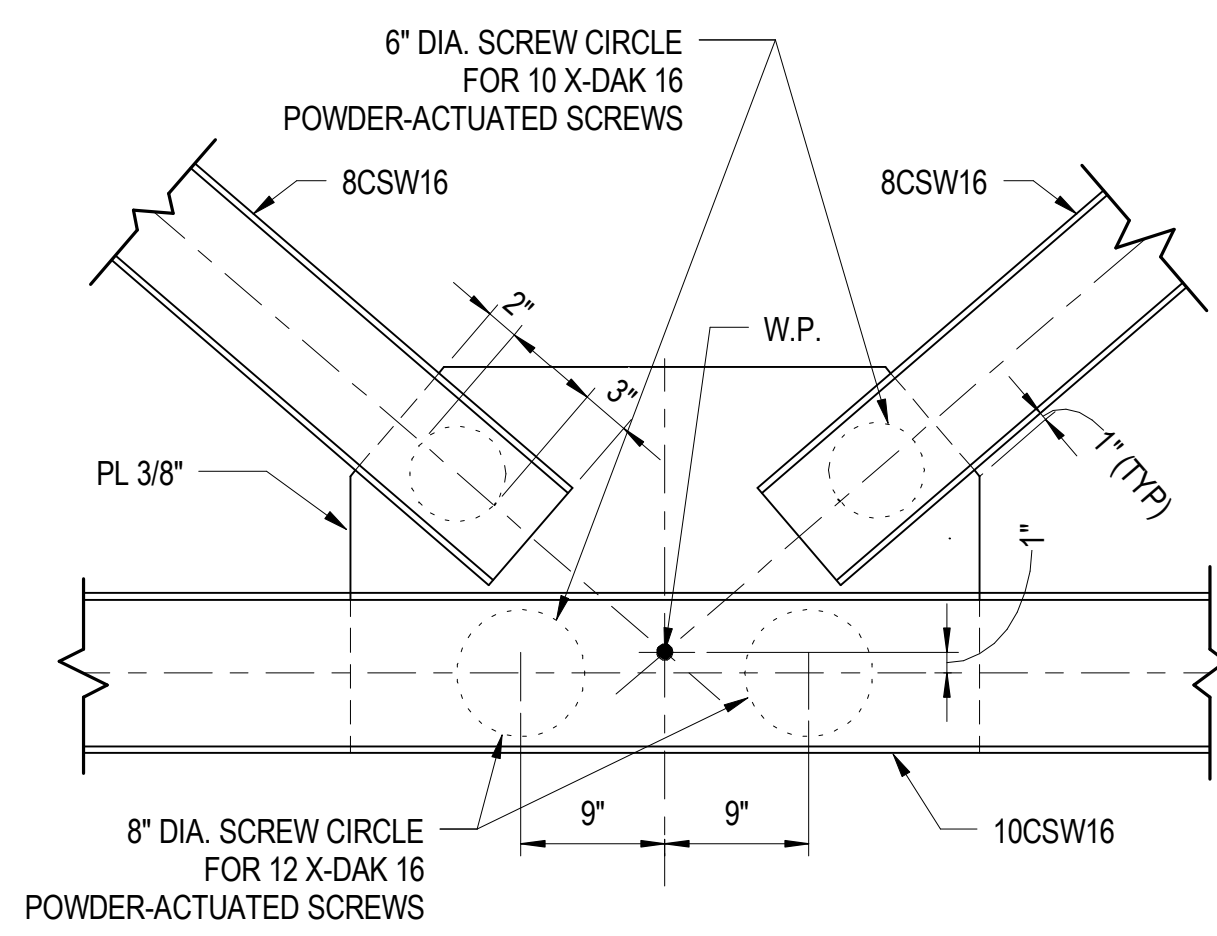
4 DETAIL
S5.10 1" = 1'-0"



5 DETAIL
S5.10 1" = 1'-0"




6 DETAIL
S5.10 1" = 1'-0"



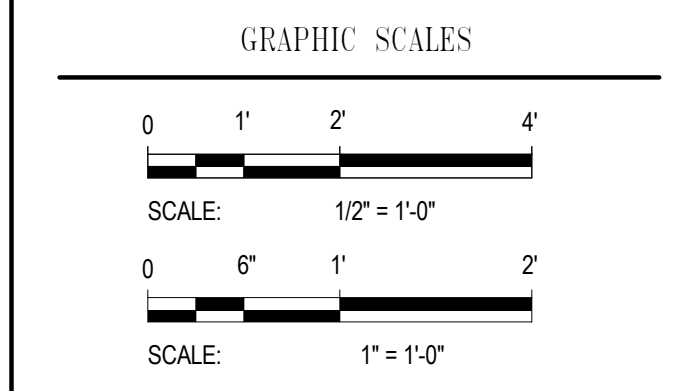
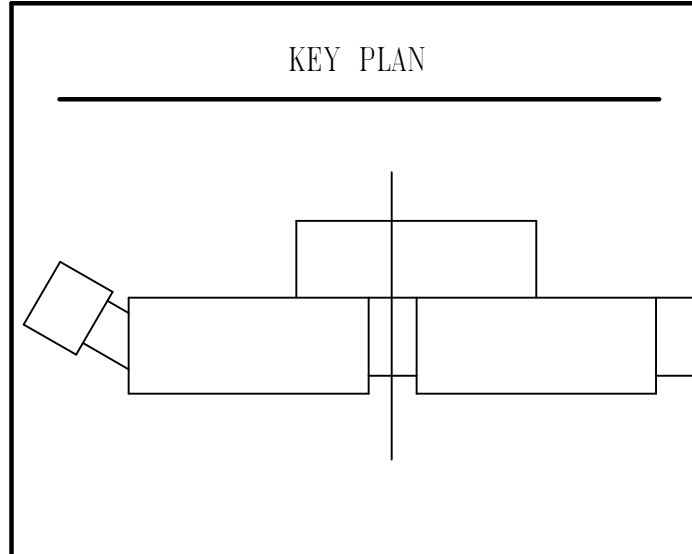
7 DETAIL
S5.10 1" = 1'-0"

ISSUED	
35% SUBMISSION	07/06/07
95% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
BID DOCUMENTS	01/25/09



COUNTY OF KING GEORGE, VIRGINIA
**KING GEORGE COUNTY
GOVERNMENT CENTER**
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KING GEORGE, VA 22485

SHERIFF'S OFFICE



SIGNATURE
STAMP NAME
License #1234 Exp. Date 10/10/03

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EVIDENCE GARAGE ROOF TRUSS ELEVATION & DETAILS		
Drawing No.		
S5.10		
Scale: As indicated		
Date: 01/25/09	Sheet 139 of 223	
Des: CV	Drawn: AAB	Check: EF

COLUMN SCHEDULE																														
ATTIC FLR. T.O.S																													ATTIC FLR. T.O.S	
212.540'																													212.540'	
SECOND FLOOR																													SECOND FLOOR	
201.000'																													201.000'	
FIRST FLOOR LEVEL																													FIRST FLOOR LEVEL	
187.000'	<div><div></div><div>HSS8X8X.500</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>HSS8X8X.500</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>HSS6X6X.500</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>HSS6X6X.500</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>HSS6X6X.500</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>HSS6X6X.500</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>HSS6X6X.500</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X77</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W14X132</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W14X132</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div></div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div></div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div></div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div></div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div></div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div></div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div></div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	187.000'
BSMT. LEVEL T.O.C.																													BSMT. LEVEL T.O.C.	
174.333'																													174.333'	
BASE PLATE	TYPE 4	TYPE 4	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 3	TYPE 2	TYPE 3	TYPE 2	TYPE 3	TYPE 2	TYPE 3	TYPE 2	TYPE 3	TYPE 2	TYPE 2	TYPE 5	TYPE 5	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2		
Column Locations	A-6-1.5	A-6-2	A-2.5	A-9-2.5	A-3	A-4	A-4.5	A-9-4.5	A-6-5	A-9-5	A-6-5.5	A-9-6	A-6-6	A-7	A-7-7	A-8	A-7-8	A-9-8-9	A-8-9	B-1	B-1.5	B-2	B-3	B-4	B-5	B-6	B-7	B-8		

NOTE: DIMENSION SHOWN AT COLUMN BASE IN THE COLUMN SCHEDULE INDICATES BOTTOM OF BASE PLATE + GROUT BED BELOW FINISH FLOOR ELEVATION.


COLUMN SCHEDULE																														
ATTIC FLR. T.O.S																													ATTIC FLR. T.O.S	
212.540'																													212.540'	
SECOND FLOOR																													SECOND FLOOR	
201.000'																													201.000'	
FIRST FLOOR LEVEL																													FIRST FLOOR LEVEL	
187.000'	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div>W14X132</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div>W14X132</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div>W14X132</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div>W14X132</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div>W14X132</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W14X132</div><div></div><div>24 x 24</div></div>	<div><div>W14X132</div><div></div><div>24 x 24</div></div>	<div><div>W14X132</div><div></div><div>24 x 24</div></div>	<div><div>W14X132</div><div></div><div>24 x 24</div></div>	<div><div>W14X132</div><div></div><div>24 x 24</div></div>	<div><div>W14X132</div><div></div><div>24 x 24</div></div>	<div><div>W14X132</div><div></div><div>24 x 24</div></div>	<div><div>W14X132</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W14X132</div><div>-0.67'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-3.50'</div><div>24 x 24</div></div>	<div><div>W10X100</div><div>-0.67'</div><div>24 x 24</div></div>	187.000'
BSMT. LEVEL T.O.C.																													BSMT. LEVEL T.O.C.	
174.333'									<div><div>24 x 24</div></div>	<div><div>(SUPPORTED BY MAT SLAB)</div></div>	<div><div>(SUPPORTED BY MAT SLAB)</div></div>	<div><div>(SUPPORTED BY MAT SLAB)</div></div>	<div><div>(SUPPORTED BY MAT SLAB)</div></div>	<div><div>(SUPPORTED BY MAT SLAB)</div></div>	<div><div>(SUPPORTED BY MAT SLAB)</div></div>														174.333'	
BASE PLATE	TYPE 2	TYPE 2	TYPE2	TYPE 2	TYPE 5	TYPE 5	TYPE 5	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE 2	TYPE X		
Column Locations	B-9	B-10	B-10.4	B-11	C-1	C-7-1.5	C-1.5	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	D-11			

NOTE: ELEVATION SHOWN AT COLUMN BASE IN THE COLUMN SCHEDULE INDICATES BOTTOM OF BASE PLATE + GROUT BED BELOW FINISH FLOOR ELEVATION.

SHEET NOTES

1. REFER TO DRAWING S6.2 FOR COLUMN BASE DETAILS, AND PEDESTAL DETAILS.

ISSUED		
<div></div>	35% SUBMISSION	07/06/07
<div></div>	95% SUBMISSION	04/14/08
<div></div>	REVISED 95% SUBMISSION	05/16/08
<div></div>	BID DOCUMENTS	01/25/09
<div></div>		



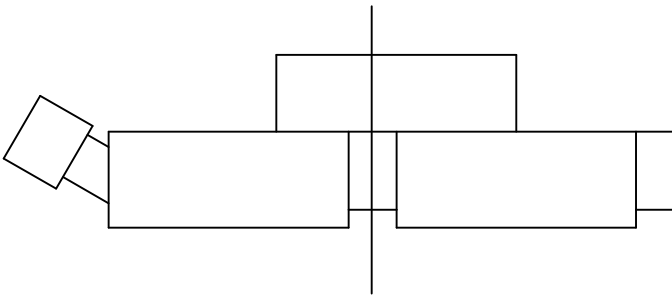
COUNTY OF KING GEORGE, VIRGINIA

KING GEORGE COUNTY
GOVERNMENT CENTER

10459 COURTHOUSE ROAD
KING GEORGE, VA 22485

SHERIFF'S OFFICE

KEY PLAN



GRAPHIC SCALES

SIGNATURE

STAMP NAME

License #1234 Exp. Date 10/10/03



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WHITMAN, REQUARDT & ASSOCIATES, LLP
ENGINEERS, ARCHITECTS AND PLANNERS

COLUMN SCHEDULE

Drawing No.

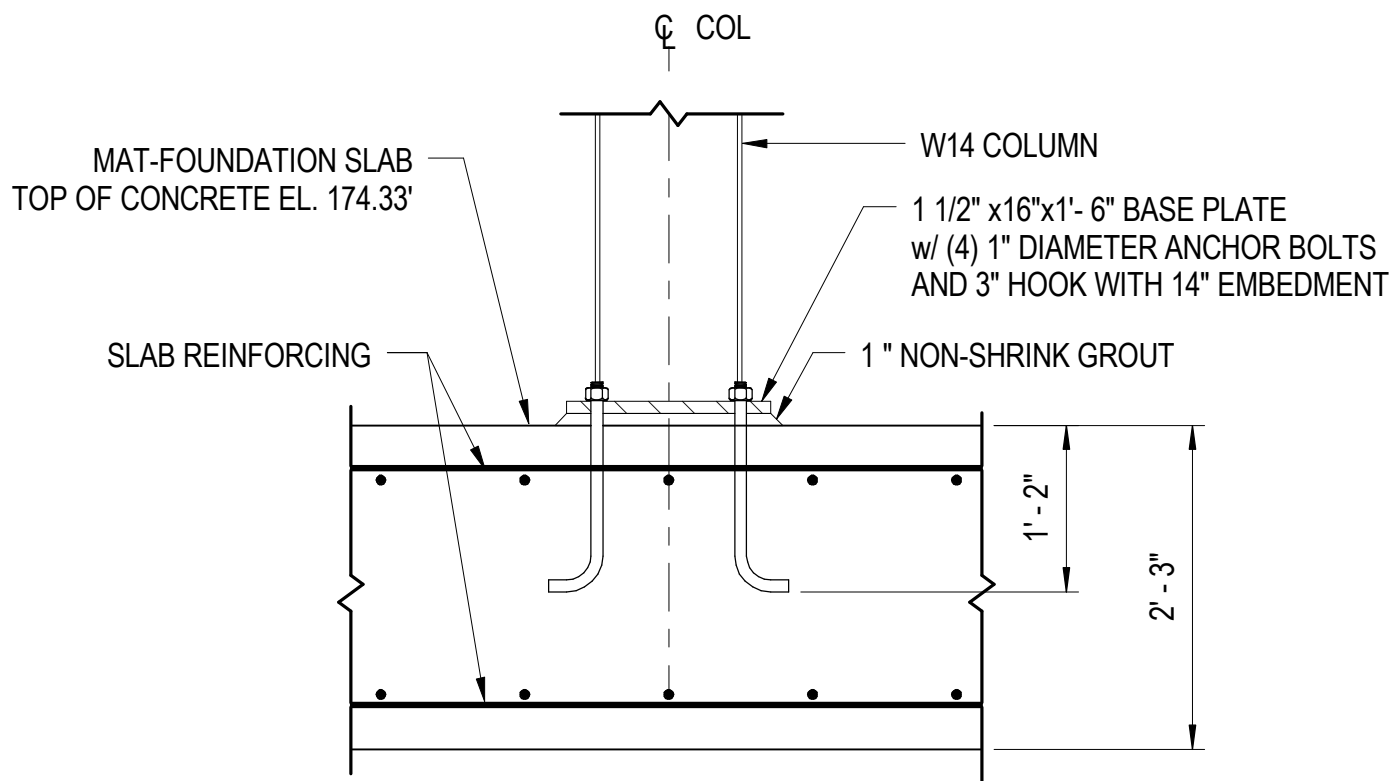
S6.1

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

Date: 01/25/09 Sheet 140 of 223

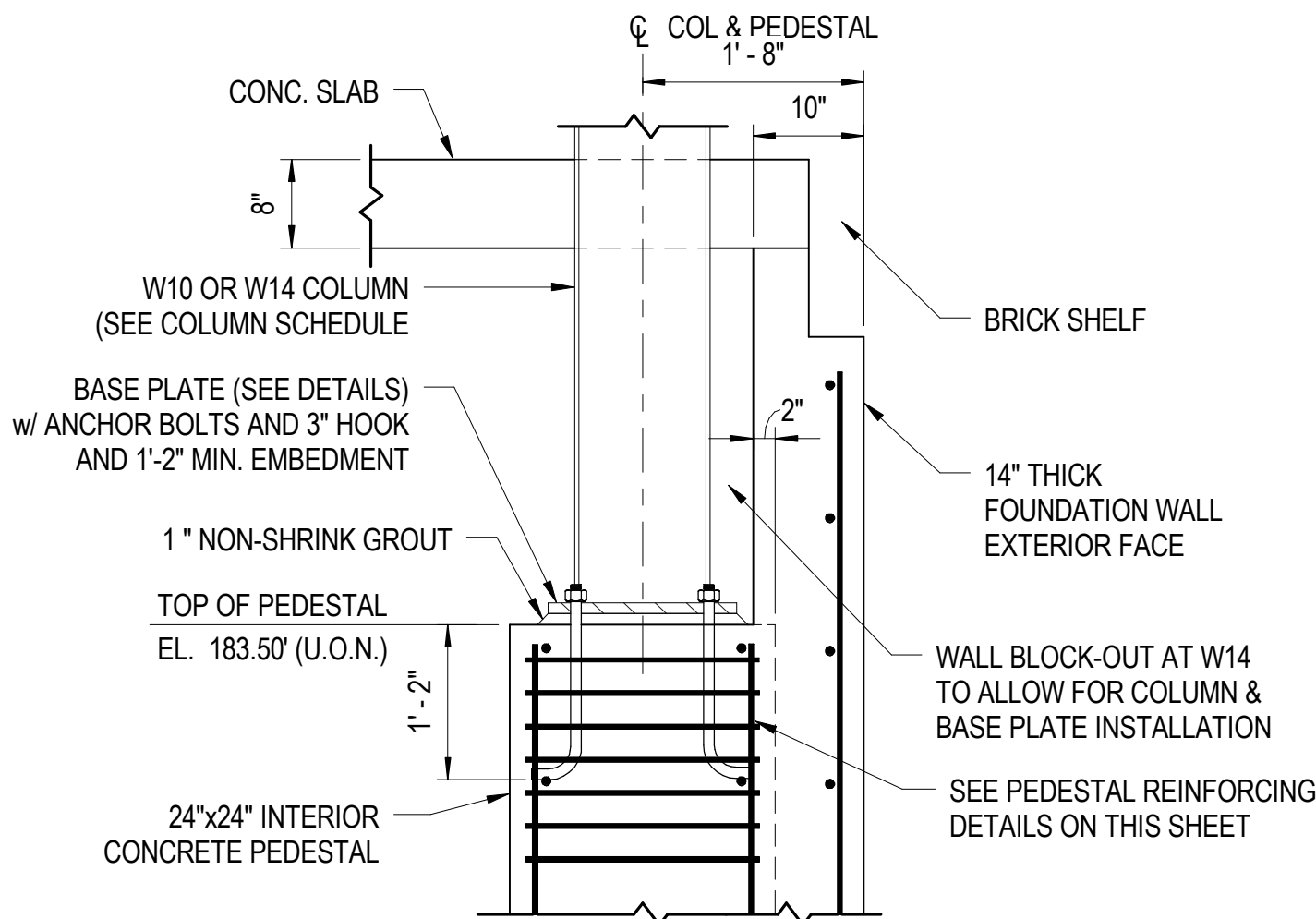
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1/26/2009 10:32:27 AM



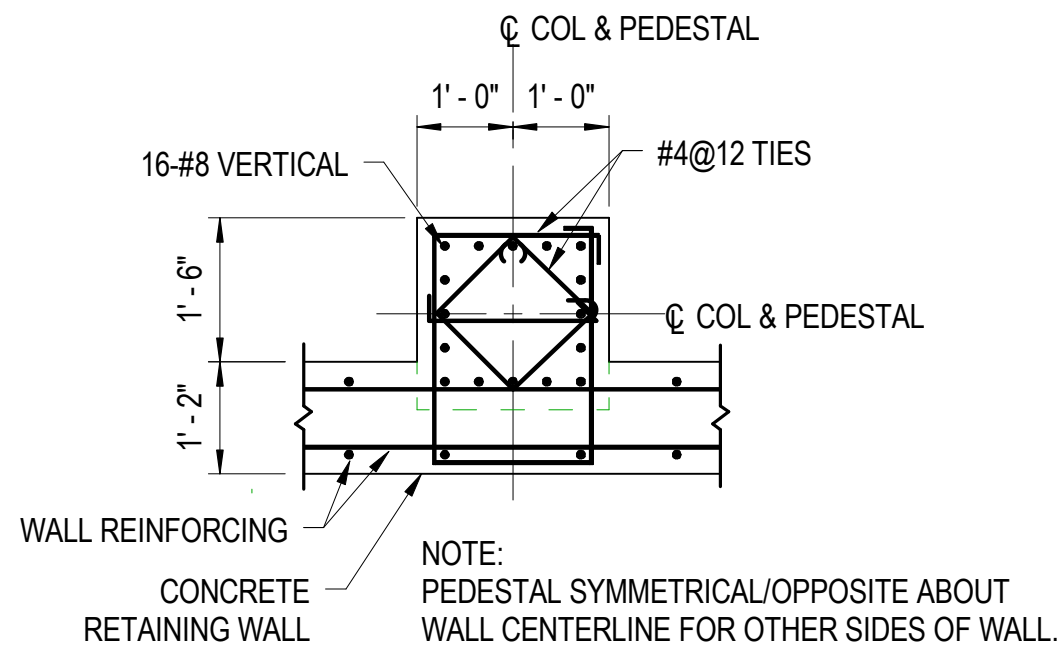
TYPICAL COLUMN BASE DETAIL ON MAT FOUNDATION

3/4" = 1'-0"



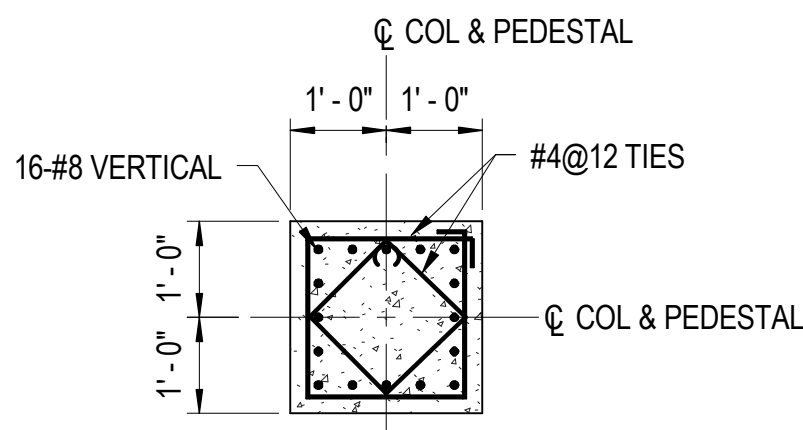
TYPICAL COLUMN BASE ON PEDESTAL

3/4" = 1'-0"



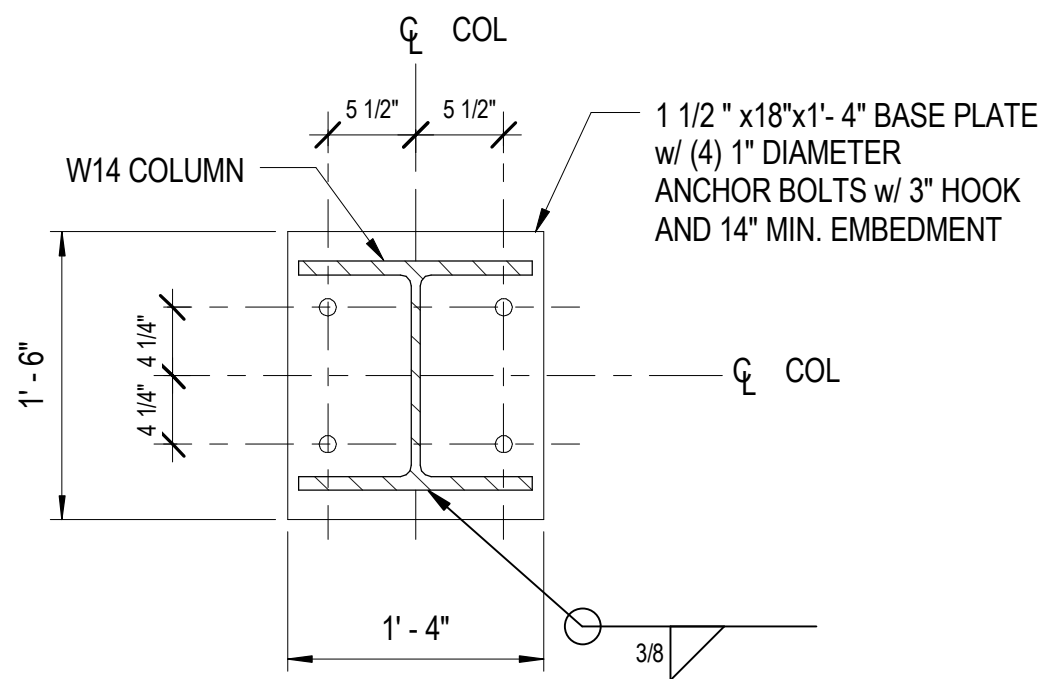
PEDESTAL (P-1) AT WALL REINFORCING

3/4" = 1'-0"



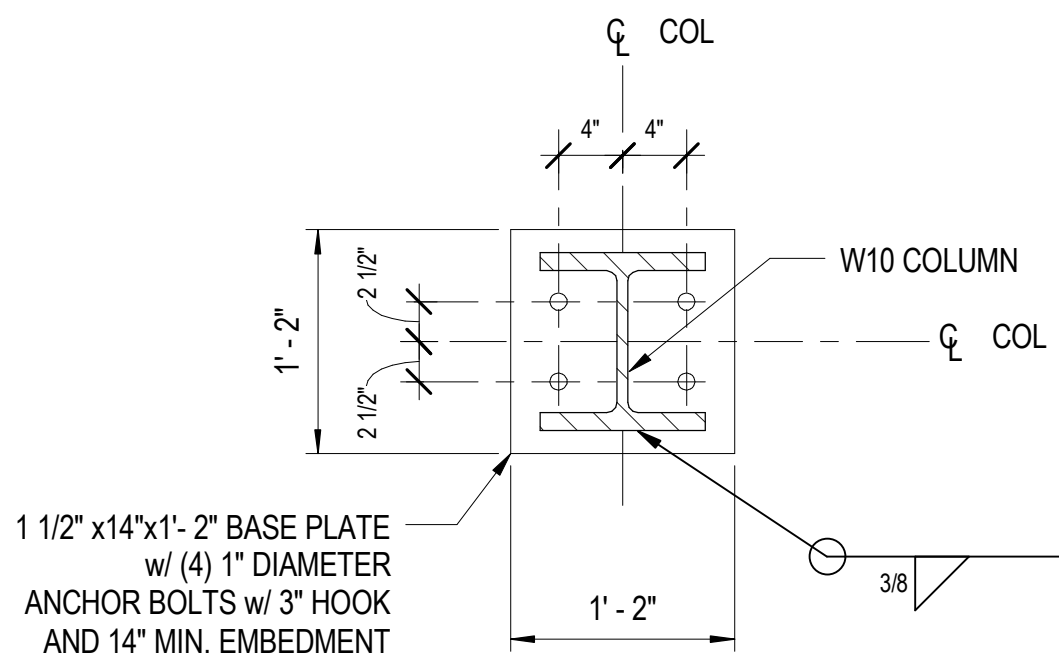
PEDESTAL (P-2) REINFORCING

3/4" = 1'-0"



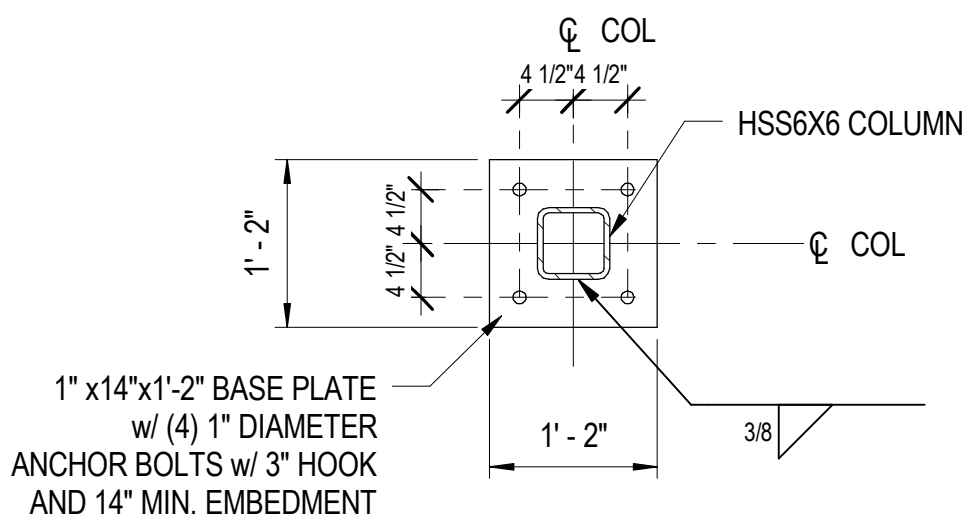
BASE PLATE TYPE 1

3/4" = 1'-0"



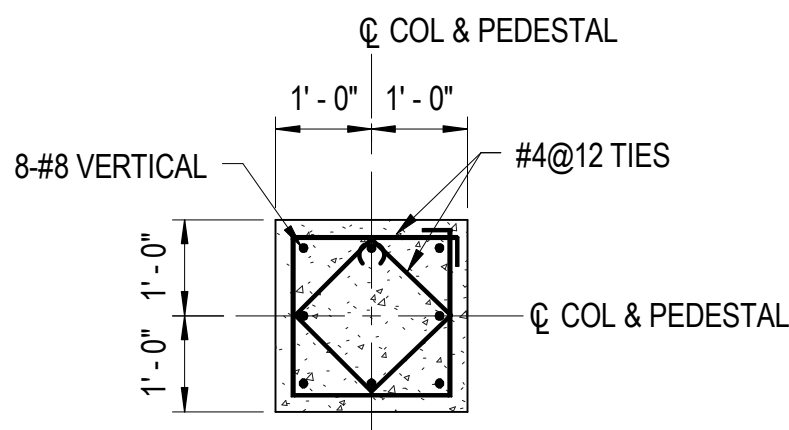
BASE PLATE TYPE 2

3/4" = 1'-0"



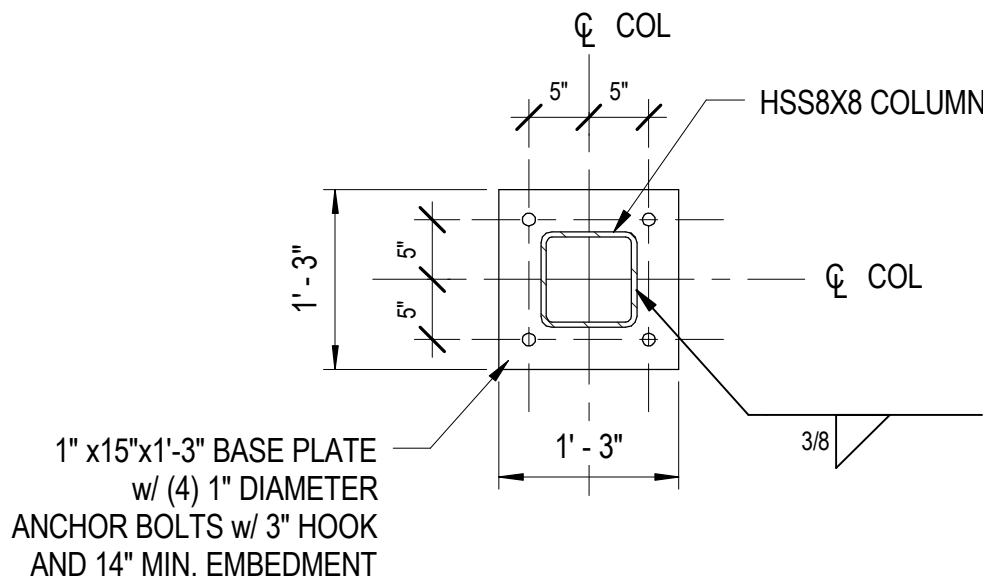
BASE PLATE TYPE 3

3/4" = 1'-0"



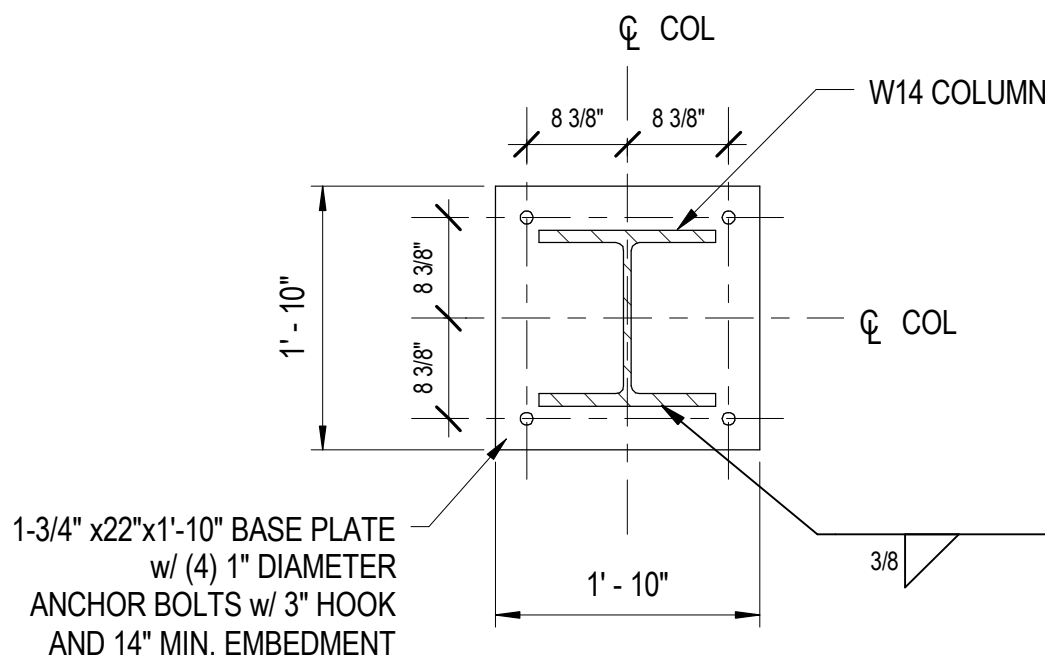
PEDESTAL (P-3) REINFORCING

3/4" = 1'-0"



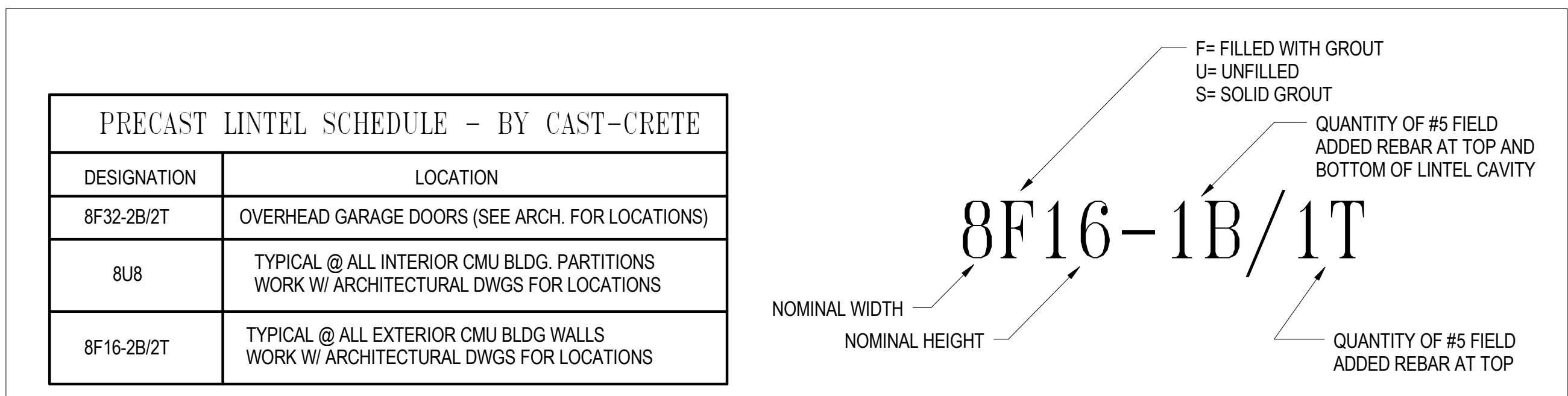
BASE PLATE TYPE 4

3/4" = 1'-0"



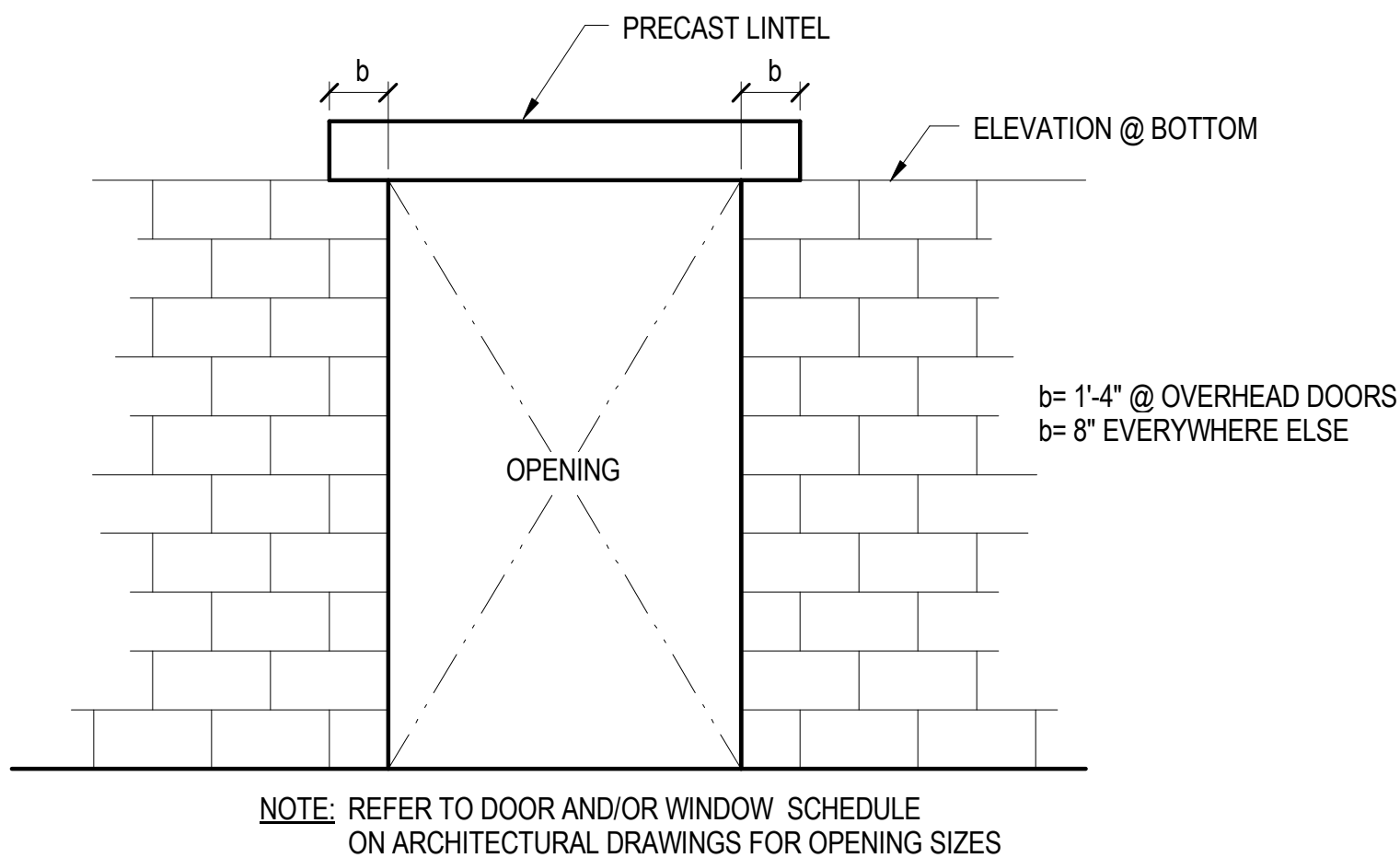
BASE PLATE TYPE 5

3/4" = 1'-0"



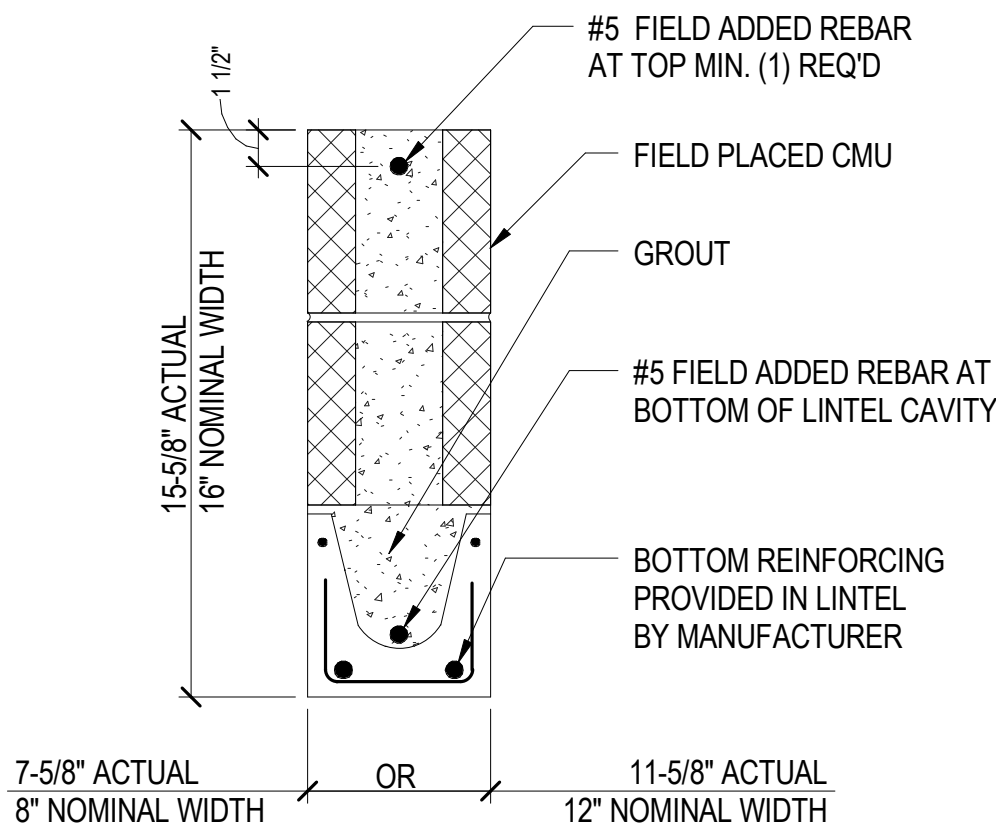
TYPICAL PRECAST LINTEL NOMENCLATURE

NO SCALE



TYPICAL PRECAST LINTEL ELEVATION


NO SCALE



TYPICAL PRECAST LINTEL SECTION

NO SCALE

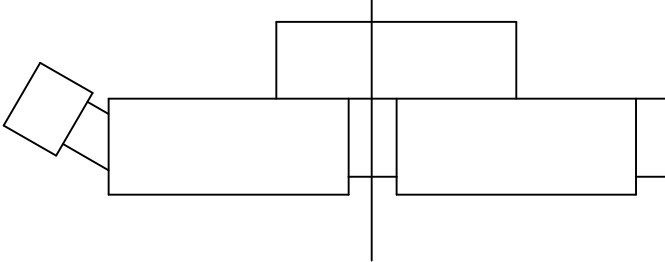
ISSUED		
35% SUBMISSION		07/06/07
65% SUBMISSION		04/14/08
REVISED 95% SUBMISSION		05/16/08
BID DOCUMENTS		01/25/09



COUNTY OF KING GEORGE, VIRGINIA
KING GEORGE COUNTY
GOVERNMENT CENTER
10459 COURTHOUSE ROAD
KING GEORGE, VA 22485

SHERIFF'S OFFICE

KEY PLAN



GRAPHIC SCALES

SIGNATURE

STAMP NAME

License #1234 Exp. Date 10/10/03



801 South Caroline Street, Baltimore, MD 21231
WHITMAN, REQUARDT & ASSOCIATES, LLP
ENGINEERS, ARCHITECTS AND PLANNERS

COLUMN & PEDESTAL DETAILS

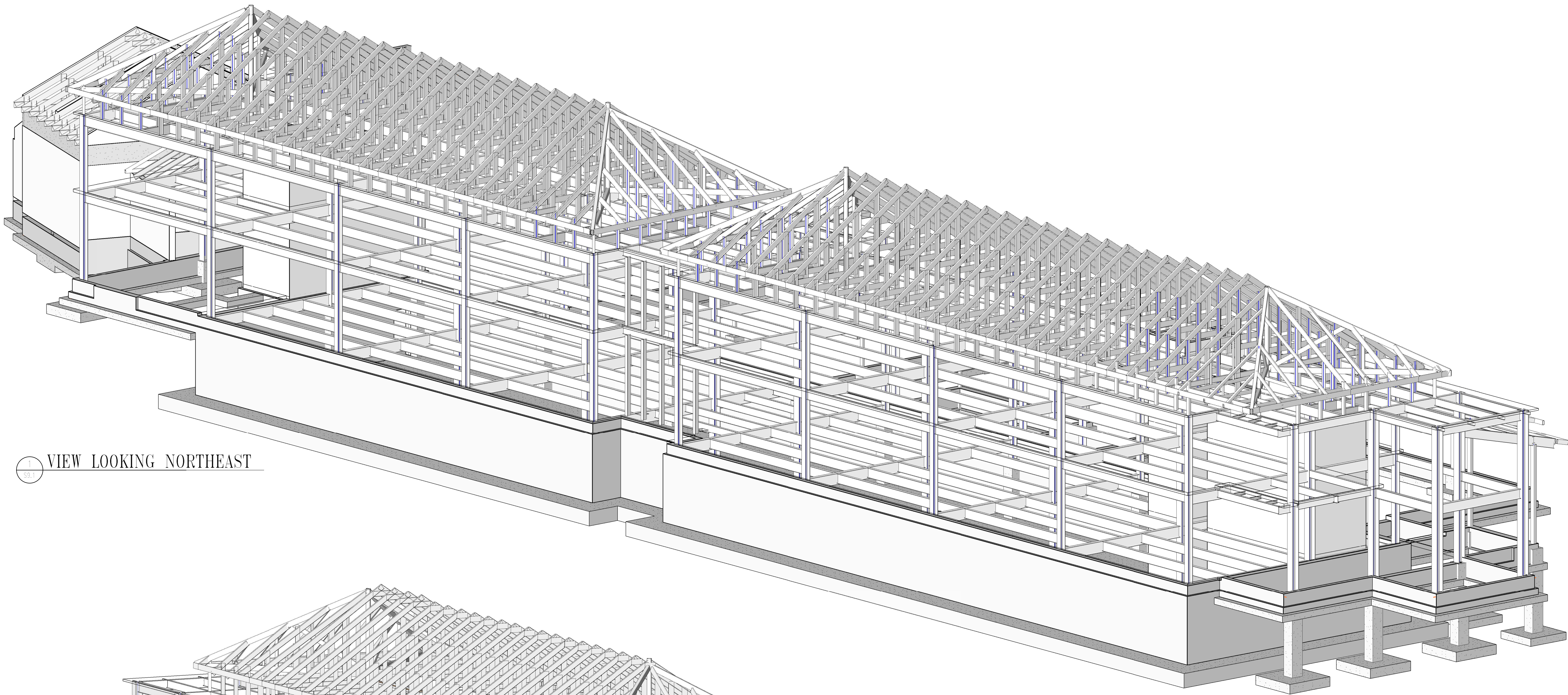
Drawing No.

S6.2

Scale: As indicated

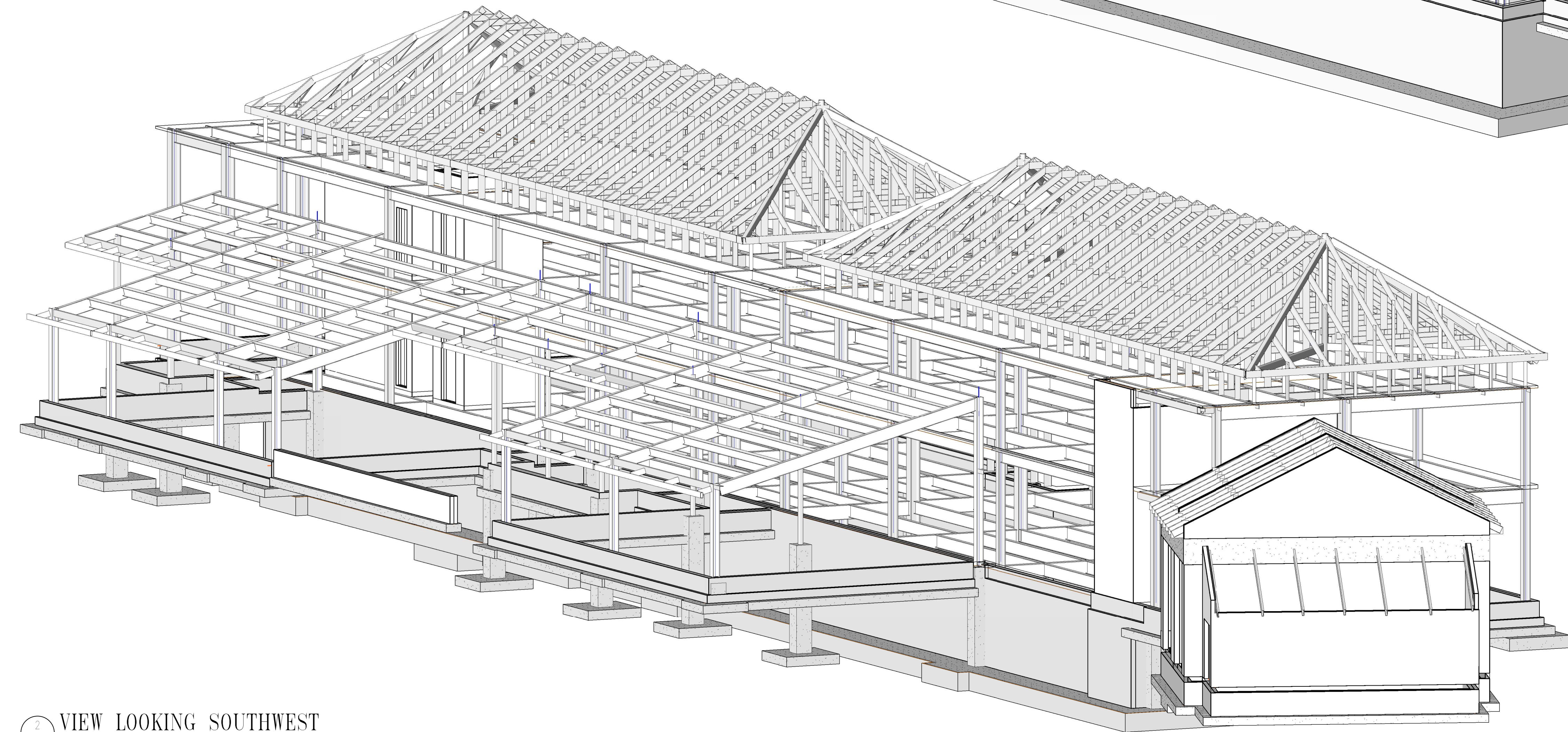
Date: 01/25/09 Sheet 141 of 223

Des: CV Drawn: AAB Check: EF



1
S9.1

VIEW LOOKING NORTHEAST



2
S9.1

VIEW LOOKING SOUTHWEST

ISSUED	
35% SUBMISSION	07/06/07
65% SUBMISSION	04/14/08
REVISED 95% SUBMISSION	05/16/08
BID DOCUMENTS	01/25/09

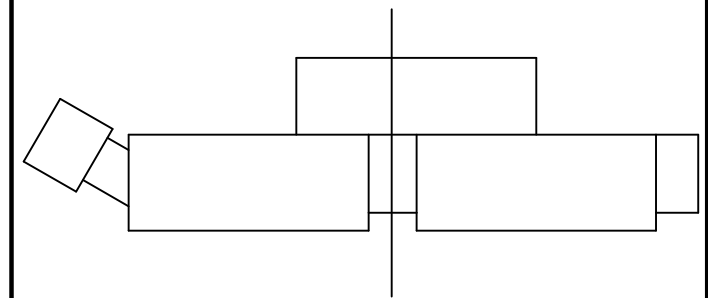


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3D VIEWS

Drawing No.

S9.1

Scale:

Date: 01/25/09 Sheet 142 of 223

Des: CV Drawn: AAB Check: EF