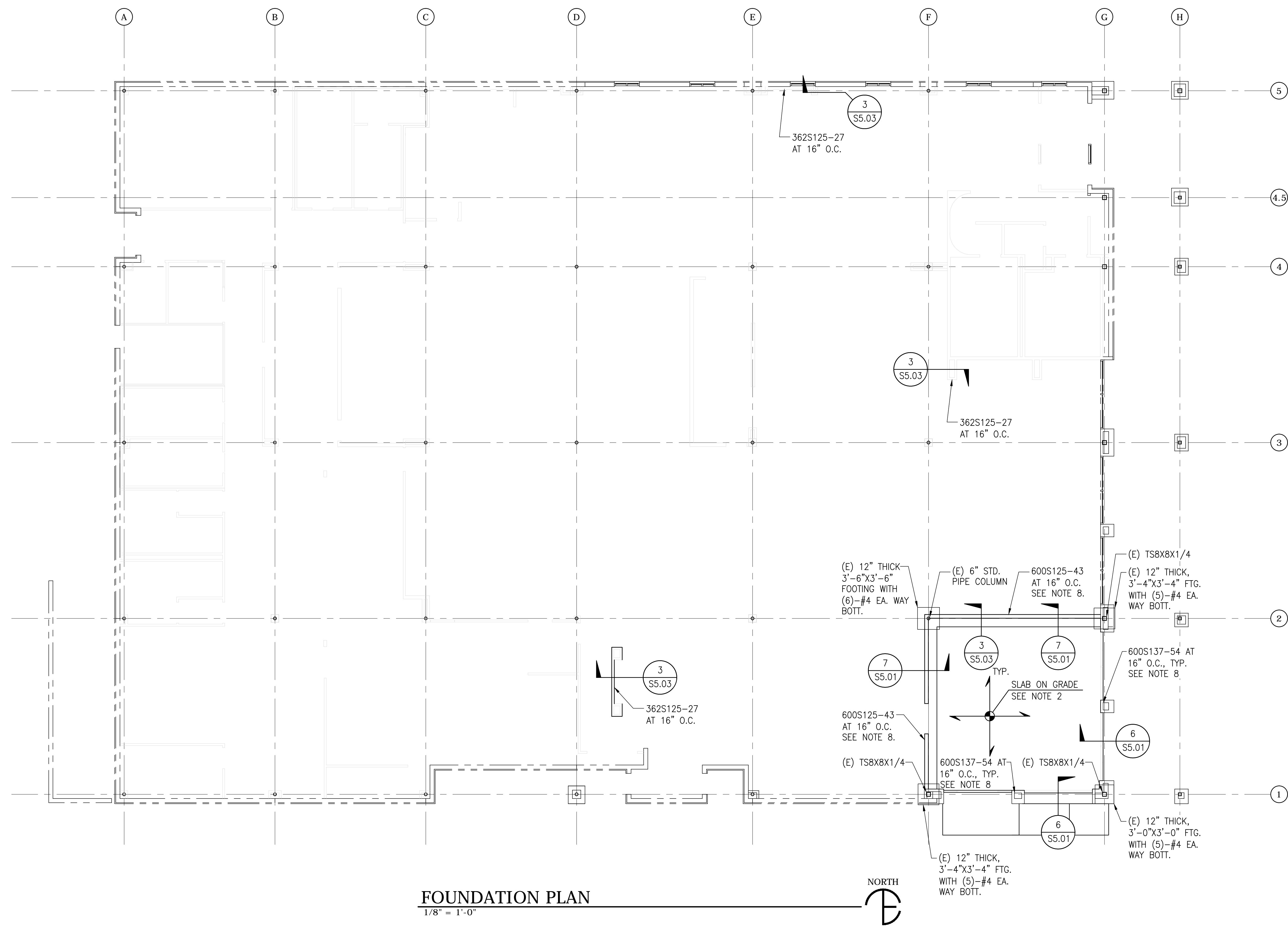


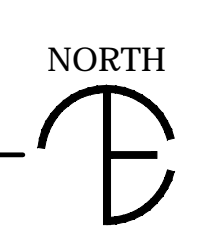


**FOUNDATION PLAN NOTES**

1. TOP OF SLAB ON GRADE ELEVATION 0'-0" U.N.O VERIFY WITH CIVIL AND/OR ARCHITECTURAL DRAWINGS.
2. SLAB ON GRADE SHALL BE 5" THICK WITH #4 AT 24" EACH WAY 2" CLEAR FROM TOP OF SLAB. FOR METHOD OF PLACING SLAB ON GRADE, SEE 3/S5.01. FOR SLAB SLOPES, DEPRESSIONS, SLAB EDGE ETC. SEE ARCHITECTURAL DRAWINGS.
3. FOR TYPICAL DETAILS, SEE SHEET S5.01. FOR GENERAL NOTES SEE SHEET S1.10.
4. VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS.
7. THESE DRAWINGS ARE BASED ON EXISTING AS BUILT STRUCTURAL DRAWINGS BY GB&L CONSULTING ENGINEERS DATED AUGUST 18, 1989.
8. FOR COLD FORMED STEEL DETAILS, SEE SHEET S5.03



**FOUNDATION PLAN**  
1/8" = 1'-0"



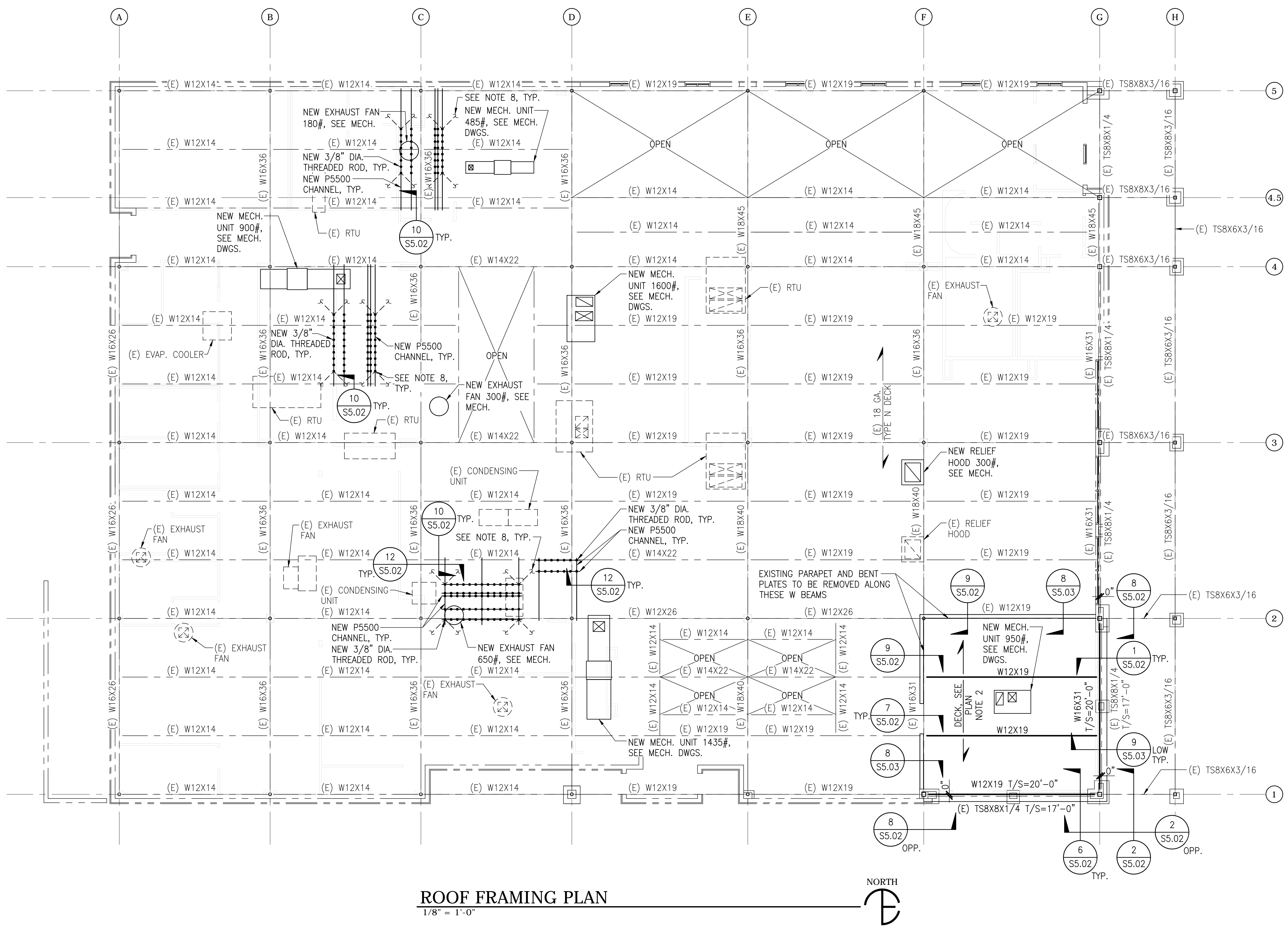
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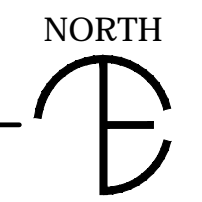
REVISIONS	DATE
1	06/06/11
2	06/27/11
3	07/08/11

**CONSTRUCTION DOCUMENTS**

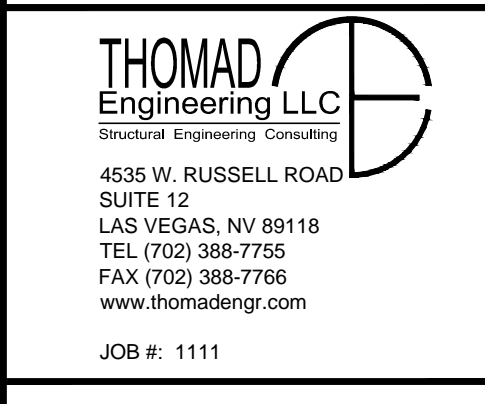
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SHEET TITLE: <b>FOUNDATION PLAN</b>	
SHEET NUMBER: <b>S2.10</b>	
DRAWN BY: EK	REVIEWED BY: SN/MT
DATE: 06/06/11	PROJECT NUMBER: 1101.00



**ROOF FRAMING PLAN**  
1/8" = 1'-0"



- ROOF FRAMING PLAN NOTES:**
- BOTTOM OF STEEL DECK ELEVATION VARIES AND IS NOTED ON PLANS THUS "X'-X" U.N.O.
  - ROOF DECK SHALL BE 3" x 18 GA. VERO TYPE N DECK OR EQUAL. DECK SHALL SPAN CONTINUOUS OVER 3 OR MORE SPANS (4 SUPPORTS). SEE ARCHITECTURAL DRAWINGS FOR INSULATION, ROOFING ETC. WELD DECK USING 1/2" DIA. NET EFFECTIVE PUDDLE WELDS AS FOLLOWS:
    - PERPENDICULAR BEARINGS: 4 WELDS PER SHEET PER SUPPORT
    - PARALLEL EDGES: AT 12" O.C.
    - SIDE SEAMS: BUTTON PUNCH AT 12" O.C.
  - DO NOT HANG LOADS EXCEEDING 150 LBS FROM METAL DECK. PROVIDE ENGINEERED STRUCTURAL SYSTEM TO HANG ALL LOADS EXCEEDING 150 LBS FROM STEEL JOISTS OR BEAMS. THIS INCLUDES BUT IS NOT LIMITED TO METAL STUD SOFFIT OR CEILING FRAMING, MECHANICAL OR PLUMBING EQUIPMENT, ETC.
  - FOR TYPICAL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SEE 1/S5.02.
  - FOR TYPICAL DETAILS SEE SHEET S5.02. FOR GENERAL NOTES SEE SHEET S1.10.
  - SEE ARCHITECTURAL DRAWINGS TO VERIFY ROOF SLOPES, ROOF DRAINS, PENETRATIONS, ETC.
  - THESE DRAWINGS ARE BASED ON EXISTING AS BUILT STRUCTURAL DRAWINGS BY GB&L CONSULTING ENGINEERS DATED AUGUST 18, 1989.
  - FOR SEISMIC BRACING OF EXHAUST HOODS, SEE DETAILS 13 AND 14 ON SHEET S5.02.
  - FOR COLD FORMED STEEL DETAILS, SEE SHEET S5.03.
  - UNISTRUT MEMBERS SUPPORTING CEILING SOFFITS ARE NOT SHOWN FOR CLARITY. SEE DETAIL 10 ON SHEET S5.02 AND DETAILS 11 AND 12 ON SHEET S5.03.



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3	PERMIT REVIEW	07/08/11

**CONSTRUCTION DOCUMENTS**

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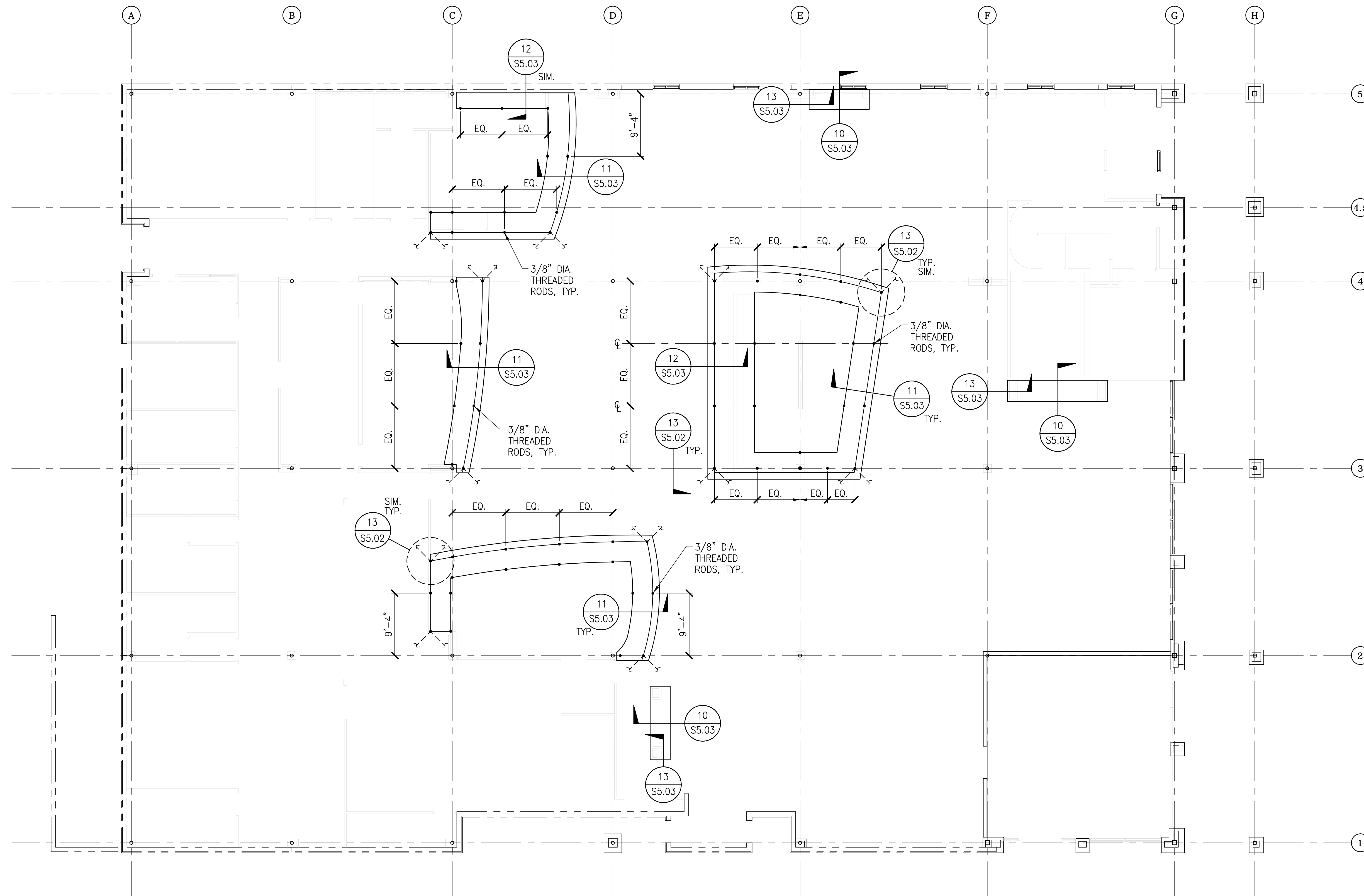
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**ROOF FRAMING PLAN**

SHEET NUMBER:  
**S2.20**

DRAWN BY: EK	REVIEWED BY: SN/MT
DATE: 06/06/11	PROJECT NUMBER: 1101.00

**CEILING SOFFIT FRAMING PLAN NOTES**

1. FOR TYPICAL DETAILS SEE SHEET S5.02. FOR GENERAL NOTES SEE SHEET S1.10.
2. SEE ARCHITECTURAL DRAWINGS TO VERIFY LOCATION AND DIMENSIONS OF ALL SOFFITS.
3. FOR COLD FORMED STEEL DETAILS, SEE SHEET S5.03
4. UNISTRUT MEMBERS SUPPORTING CEILING SOFFITS ARE NOT SHOWN FOR CLARITY. SEE DETAILS 11 AND 12 ON SHEET S5.03



**CEILING SOFFIT FRAMING PLAN**  
1/8" = 1'-0"



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2	PERMIT REVIEW	06/27/11
3	PERMIT REVIEW	07/08/11

**CONSTRUCTION DOCUMENTS**

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SHEET TITLE:  
**CEILING SOFFIT FRAMING PLAN**

SHEET NUMBER:  
**S2.21**

DRAWN BY: EK	REVIEWED BY: SN/MT
DATE: 06/27/11	PROJECT NUMBER: 1101.00

- NOTES:
- TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE 1.3Q.
  - CLASS A - HALF OR LESS OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH. CLASS B - MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH.
  - TOP BARS ARE HORIZONTAL BARS WITH 12" OR MORE OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.
  - FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE 0.75Q OR 12" MIN.
  - LAP SPLICES OF INDIVIDUAL BARS WITH A BUNDLE SHALL BE 1.2Q FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33Q FOR A 4-BAR BUNDLE. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED AT THE SAME LOCATION. SPLICES FOR INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE STAGGERED SUCH THAT THEY DO NOT OVERLAP.
  - Q - BASIC LAP LENGTH, SHOWN AT LEFT.
  - CASE SELECTION

BAR SIZE	LAP CLASS	f'c = 3000 psi			
		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2
#3	A	19	28	15	22
	B	24	36	19	28
#4	A	25	37	19	29
	B	32	48	25	37
#5	A	31	47	24	36
	B	40	60	31	47
#6	A	37	56	29	43
	B	48	72	37	56
#7	A	54	81	42	63
	B	70	106	54	81

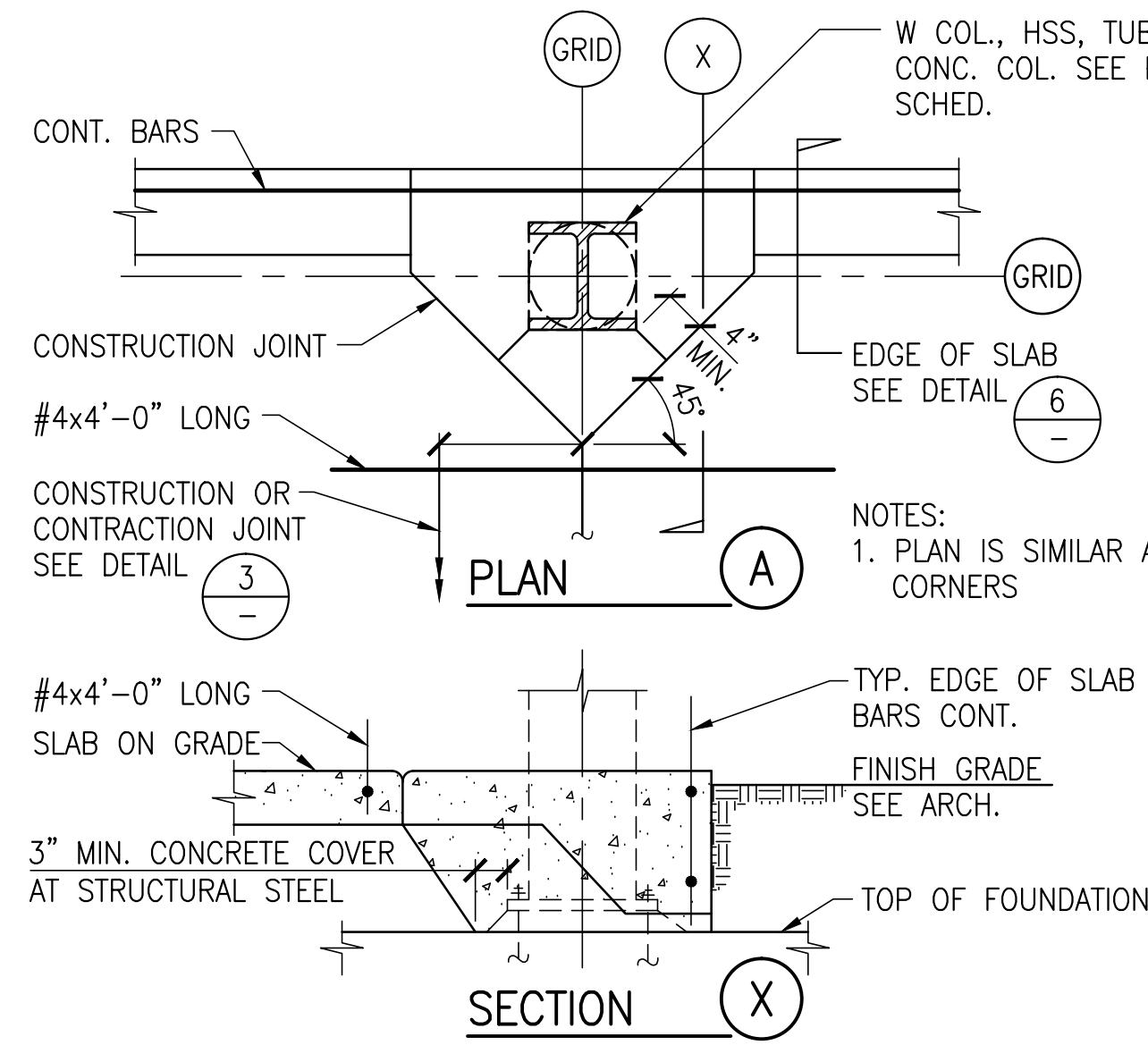
- NOTES:
- TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE 1.3Q.
  - TOP BARS ARE HORIZONTAL BARS WITH 12" OR MORE OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.
  - FOR BARS ENCLOSED IN STANDARD COL. SPIRALS, USE 0.75Q OR 12" MIN.
  - DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE 1.2Q FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33Q FOR A 4-BAR BUNDLE.
  - COMPRESSION DEVELOPMENT LENGTH (ONLY WHERE INDICATED ON DRAWINGS) FOR GRADE 60 BARS USE 22 BAR DIAMETERS.
  - CASE SELECTION

BAR SIZE	f'c = 3000 psi			
	TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2
#3	19	28	15	22
	24	36	19	28
#4	25	37	19	29
	32	48	25	37
#5	31	47	24	36
	40	60	31	47
#6	37	56	29	43
	48	72	37	56
#7	54	81	42	63
	70	106	54	81

- FOR FOUNDATION, SLAB ON GRADE, COLUMN REINFORCEMENT AND DOWELS, BEAM REINFORCEMENT, WALL REINFORCEMENT AND DOWELS (EXCEPT AS NOTED BELOW), AND WALLS WITH A SINGLE MAT OF STEEL CENTERED IN THE WALL AND DOWELS USE CASE 1 U.N.O.
  - FOR STRUCTURAL SLAB REINFORCEMENT AND CHORD STEEL REINFORCEMENT, USE CASE 2, U.N.O.
- EXTEND BAR AS FAR AS POSSIBLE AND BEND WITH 90° STANDARD HOOK WHERE Qd CANNOT BE ACHIEVED

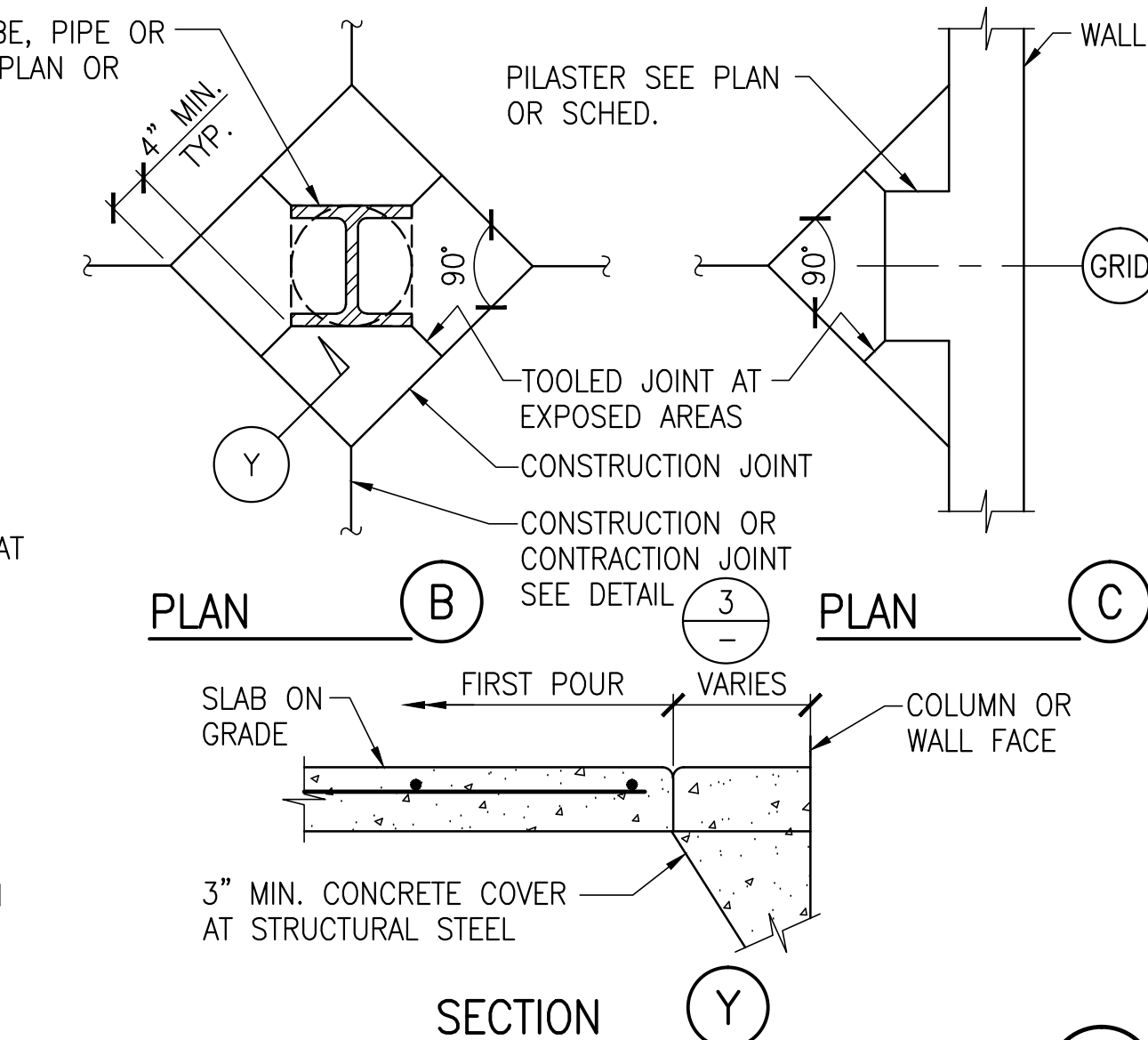
### TENSION LAP SLICE (CONCRETE ONLY)

NTS



### TENSION DEVELOPMENT LENGTH

(CONCRETE ONLY)



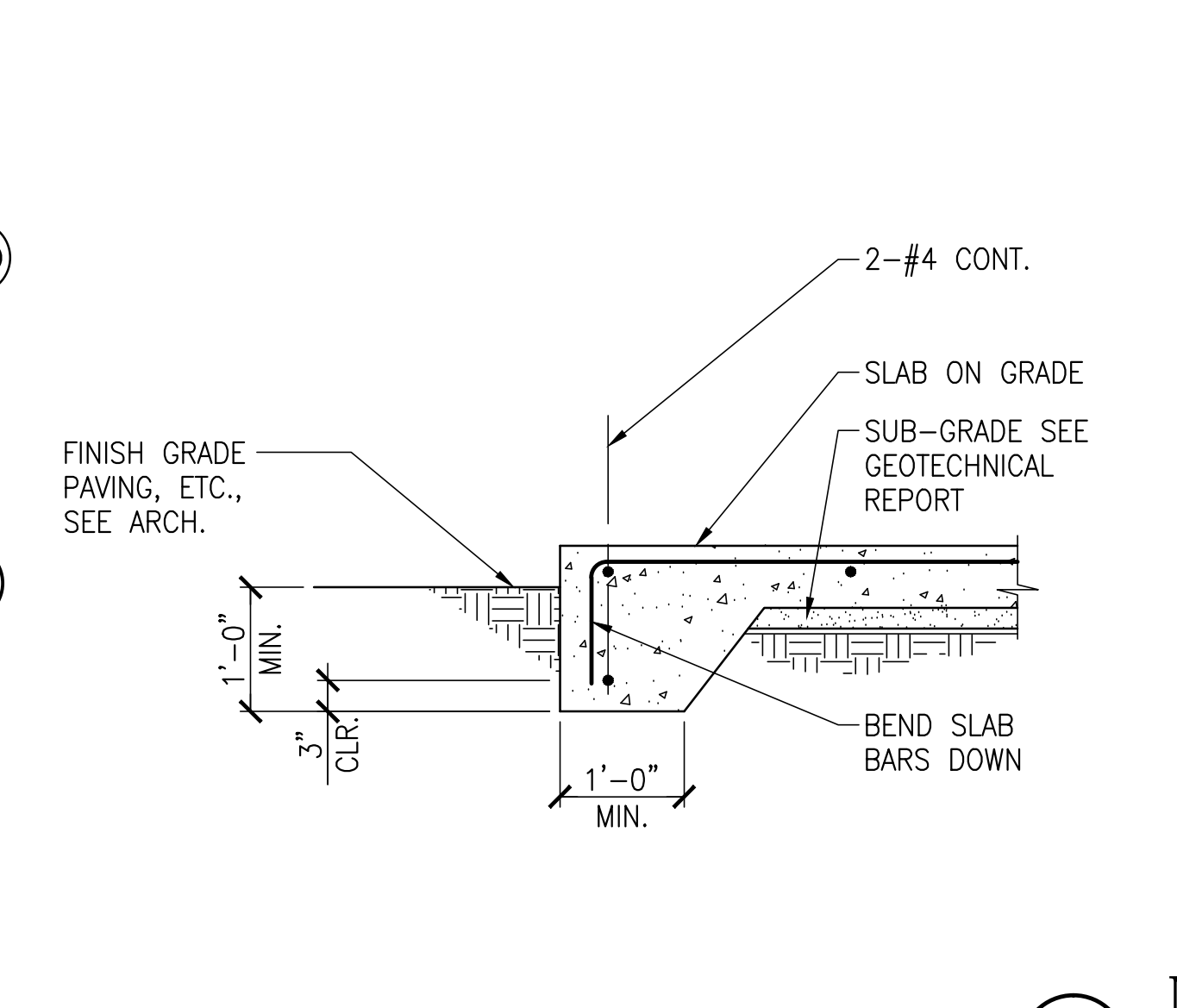
### COLUMN ISOLATION JOINTS

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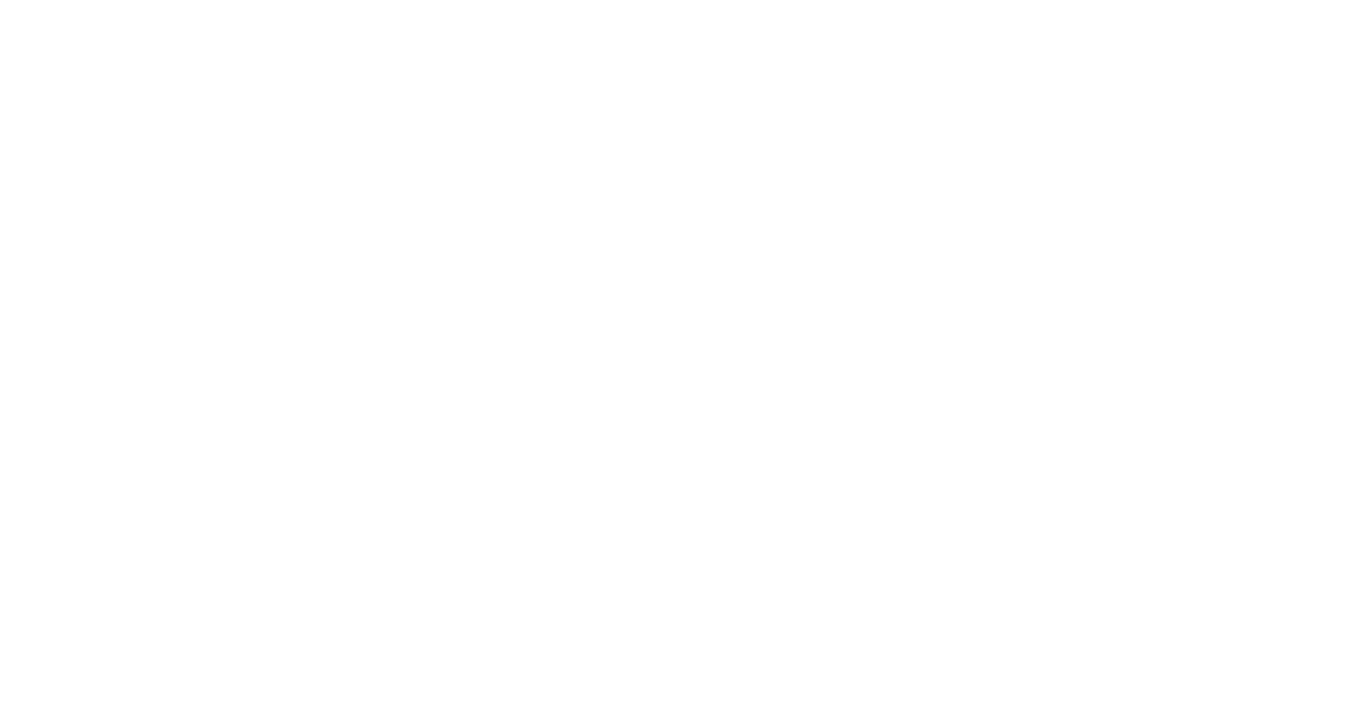
### METHOD OF PLACING SLAB ON GRADE

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### EDGE OF SLAB ON GRADE

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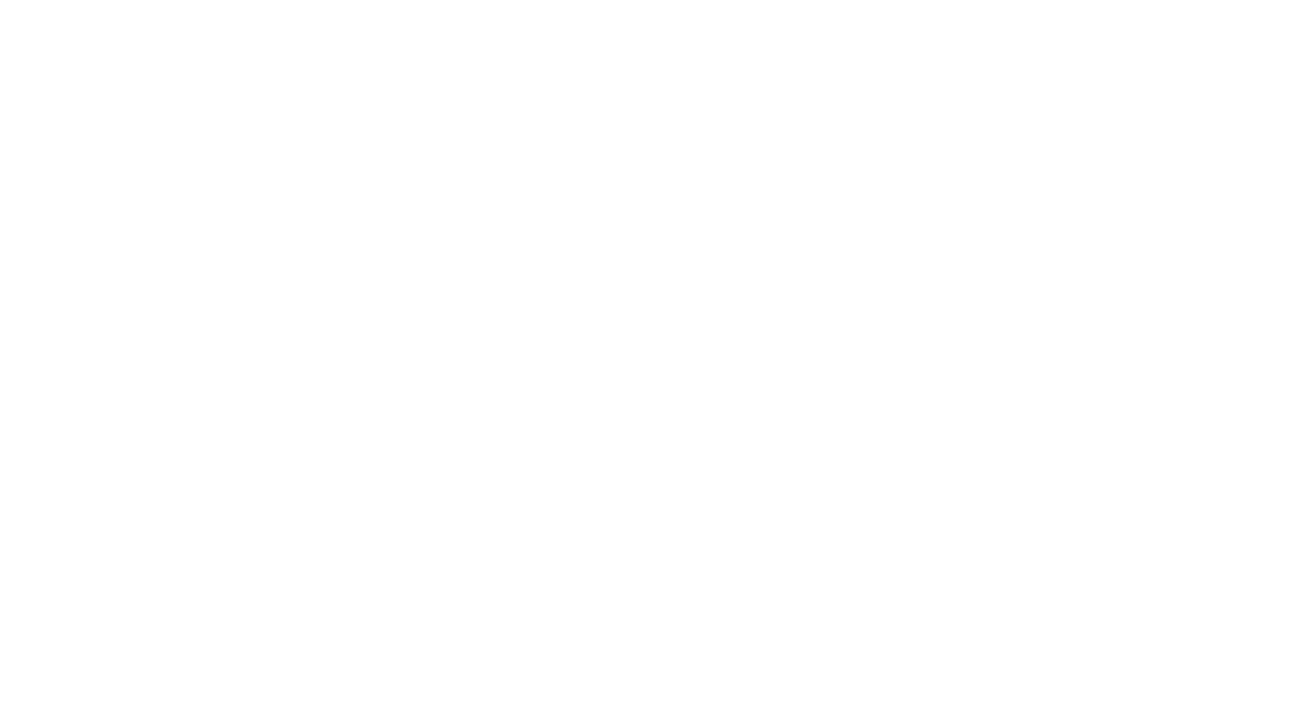
### NEW SLAB AT EXISTING EDGE OF SLAB

NTS



### EXISTING SLAB ON GRADE REPAIR

NTS



### EDGE OF SLAB ON GRADE

NTS



### NEW SLAB AT EXISTING EDGE OF SLAB

NTS



### EXISTING SLAB ON GRADE REPAIR

NTS

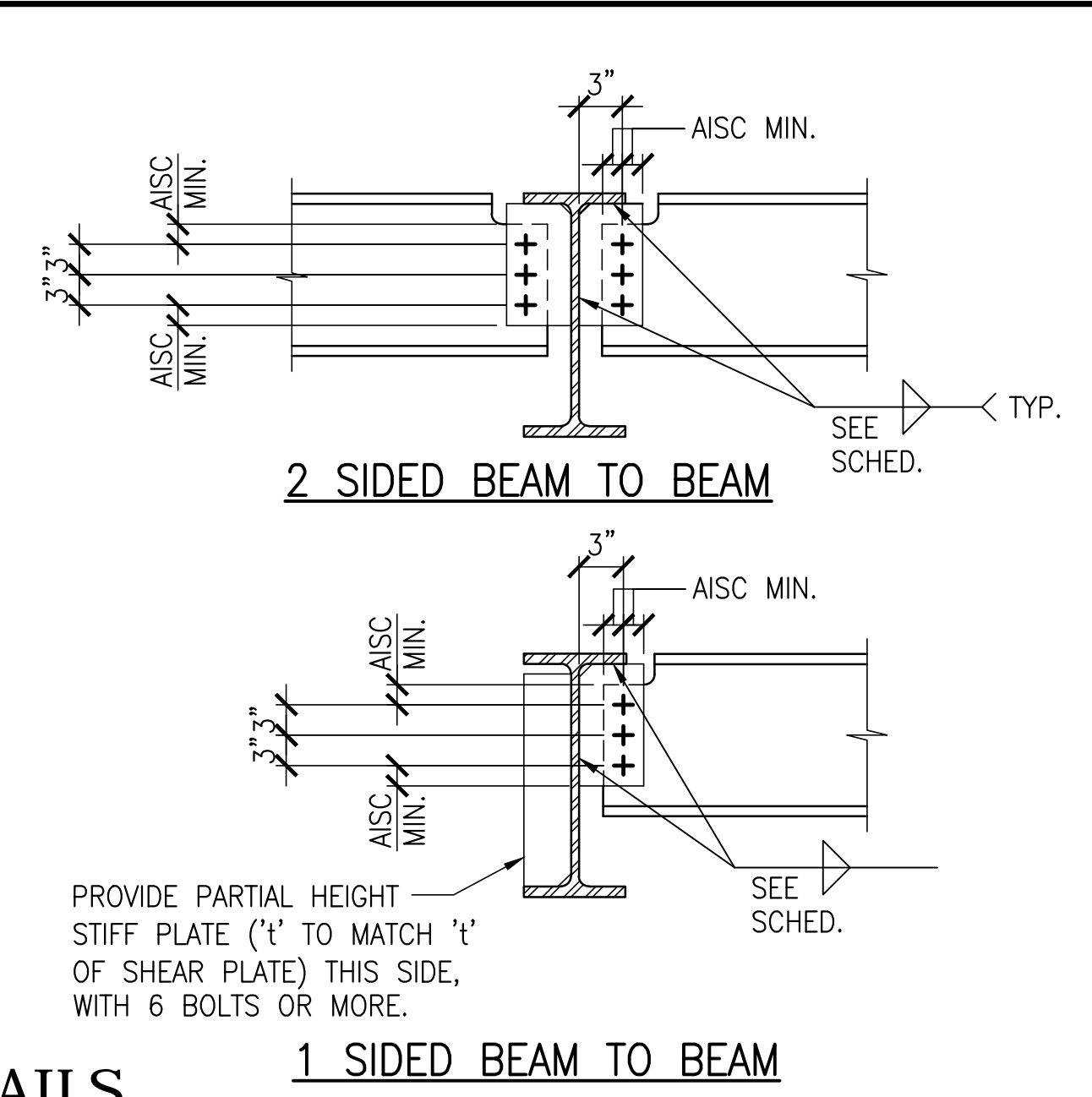
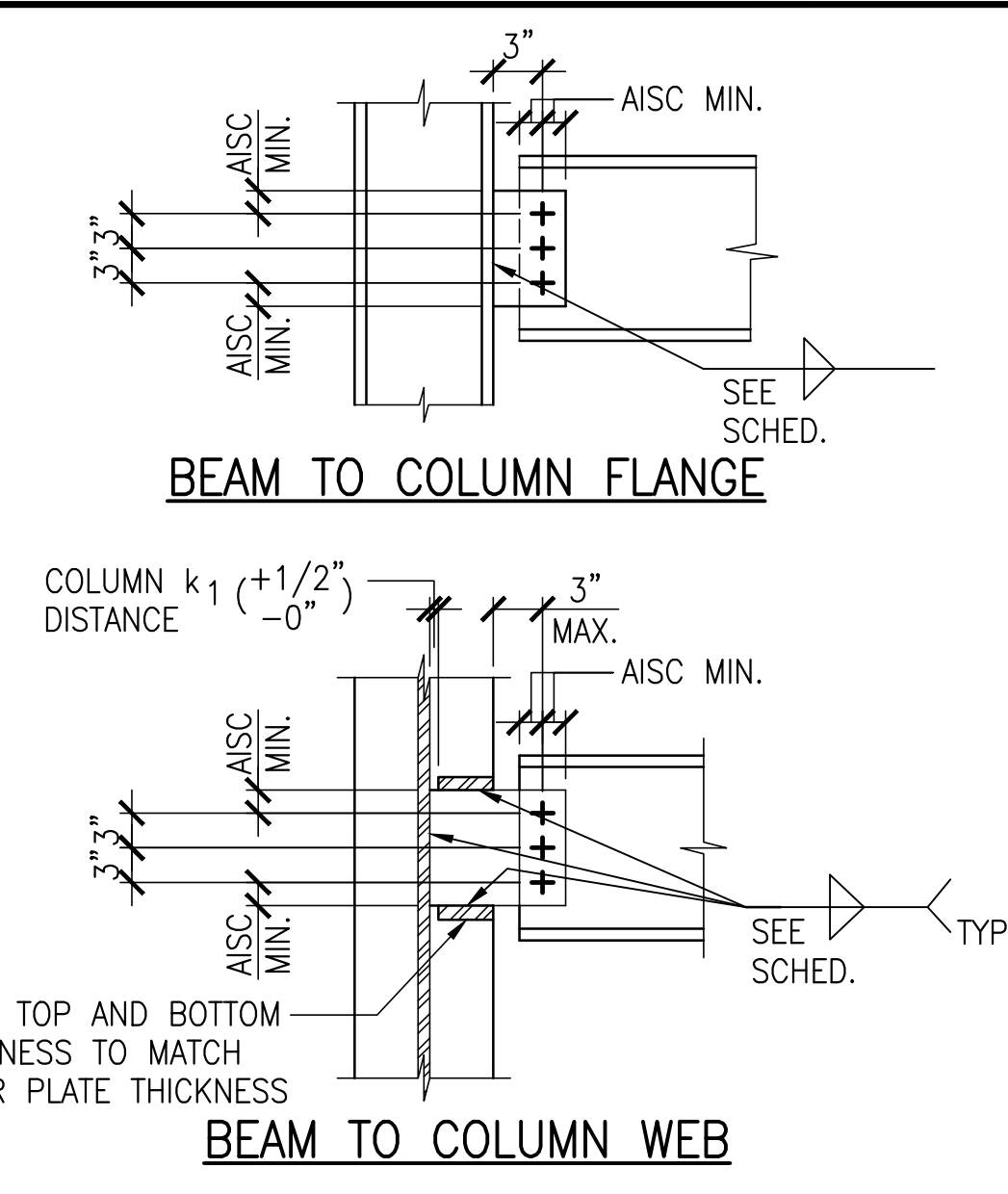


1	REVISIONS	06/06/11
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3	PERMIT REVIEW	07/08/11

### CONSTRUCTION DOCUMENTS

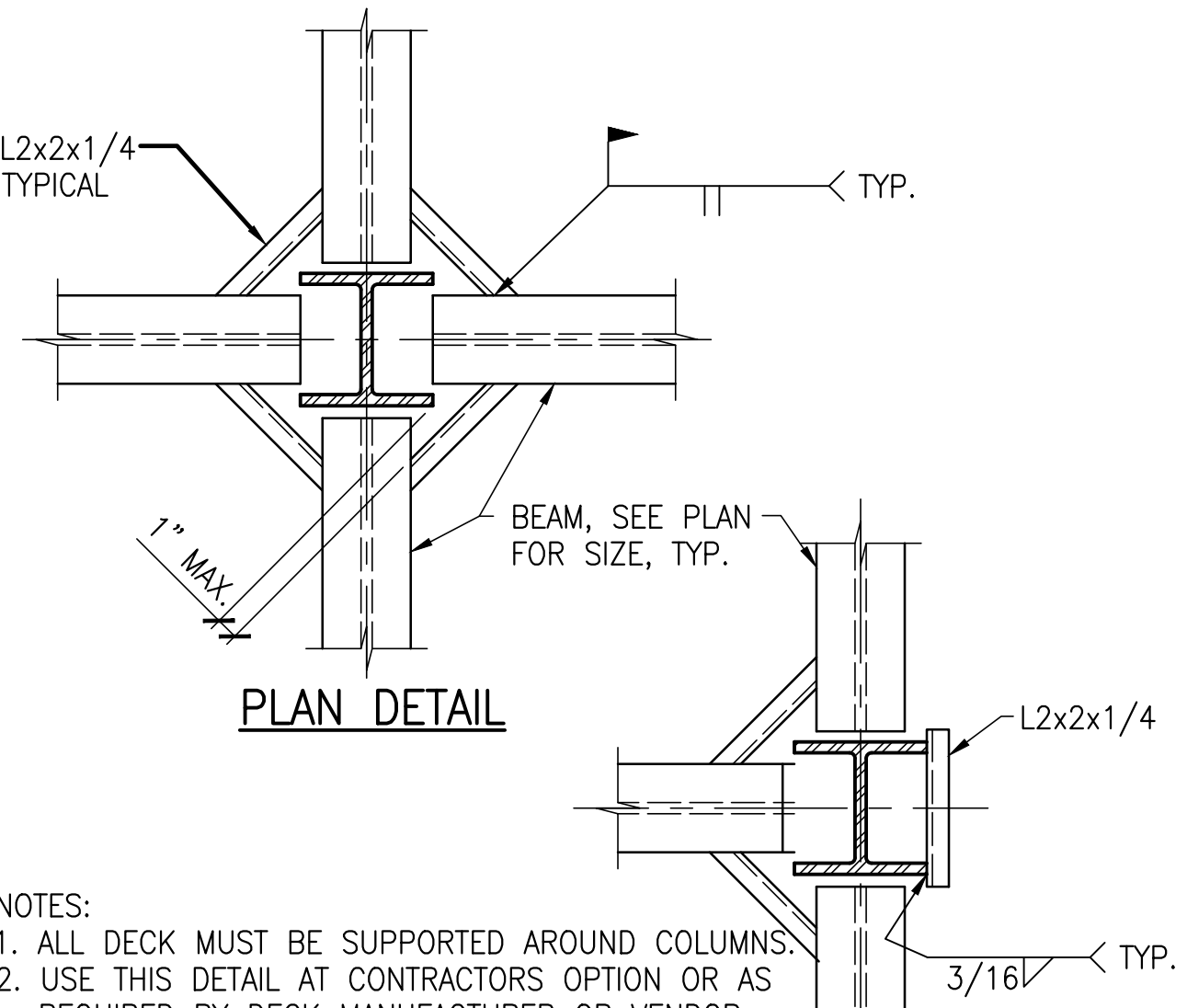
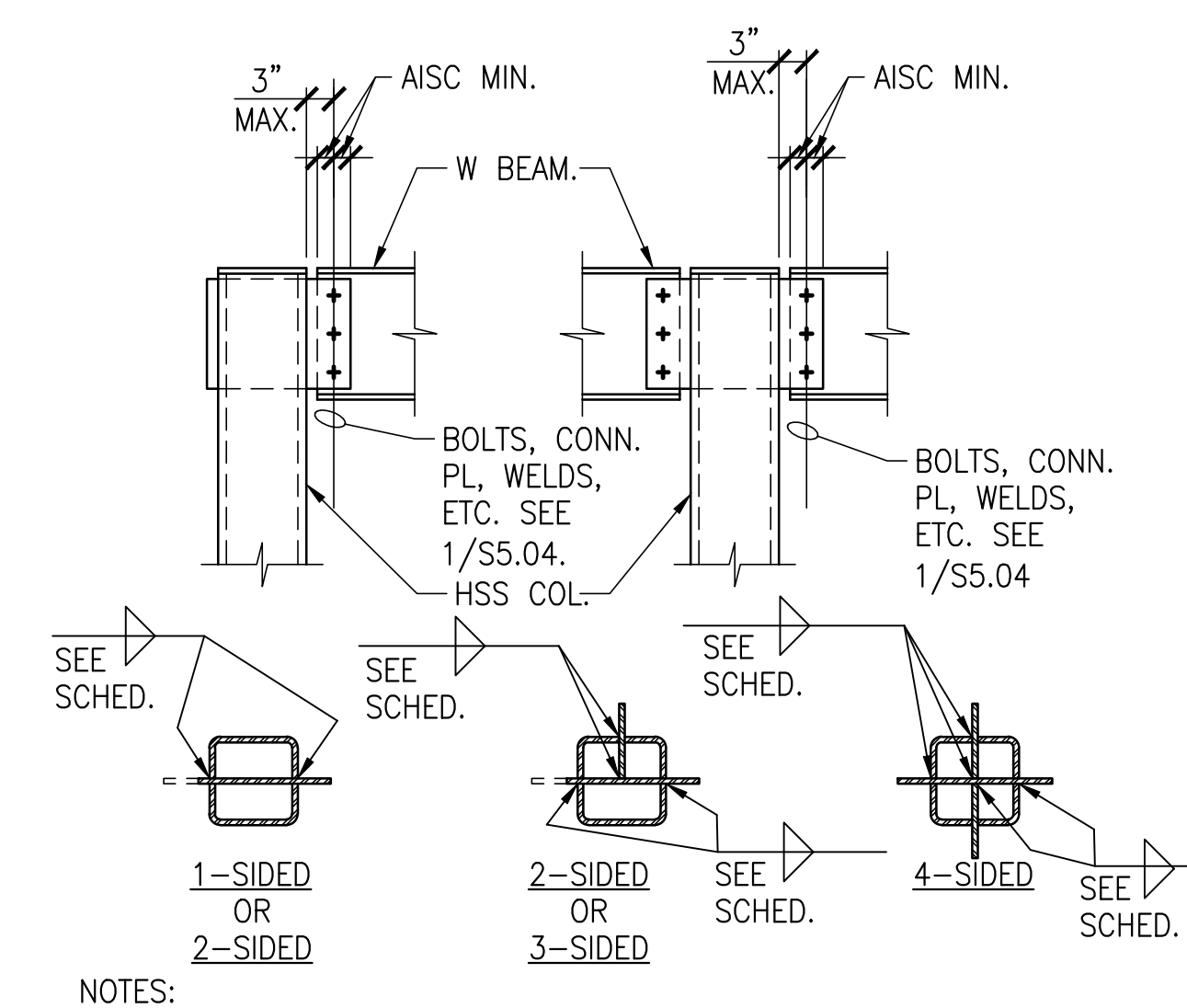
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SHEET TITLE: <b>FOUNDATION DETAILS</b>	
SHEET NUMBER: <b>S5.01</b>	
DRAWN BY: EK	REVIEWED BY: SN/MT
DATE: 06/06/11	PROJECT NUMBER: 1101.00



BEAM CONNECTION SCHEDULE-ROOF				
NOMINAL MEMBER DEPTH	BOLTS NO. AND SIZE	SHEAR PLATE THICKNESS	SIZE OF FILLET WELD	REMARKS
8" - 10"	2-3/4" DIA.	3/8	5/16	-
12" - 14"	3-3/4" DIA.	3/8	5/16	-
16"	4-3/4" DIA.	3/8	5/16	-
18"	5-3/4" DIA.	3/8	5/16	-
21"	6-3/4" DIA.	3/8	5/16	-
24"	7-3/4" DIA.	3/8	5/16	-
27"	8-3/4" DIA.	3/8	5/16	-
30" - 33"	9-1" DIA.	9/16	7/16	-
36" - 40"	10-1" DIA.	9/16	7/16	-

NOTES:  
1. ALL 3/4" DIA. BOLTS SHALL BE A325-N. ALL 1" DIA. BOLTS SHALL BE A490-N.  
2. PROVIDE LARGER WELDS WHERE MAY BE REQUIRED BY AISC.  
3. USE LARGER PLATES AND WELDS WHERE REQUIRED BY BRACE FRAME CONNECTIONS OR OTHER SPECIFIC DETAILS.



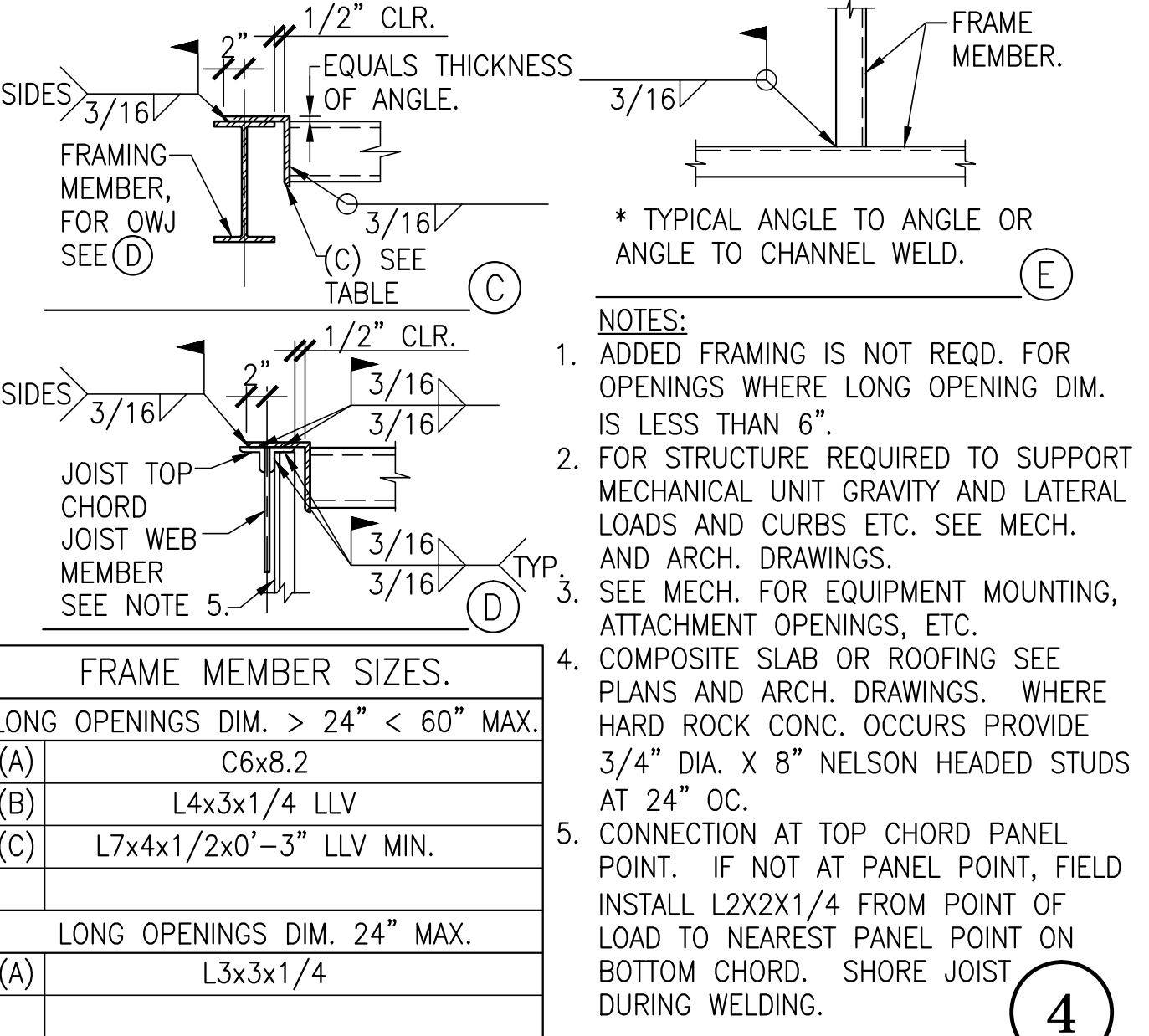
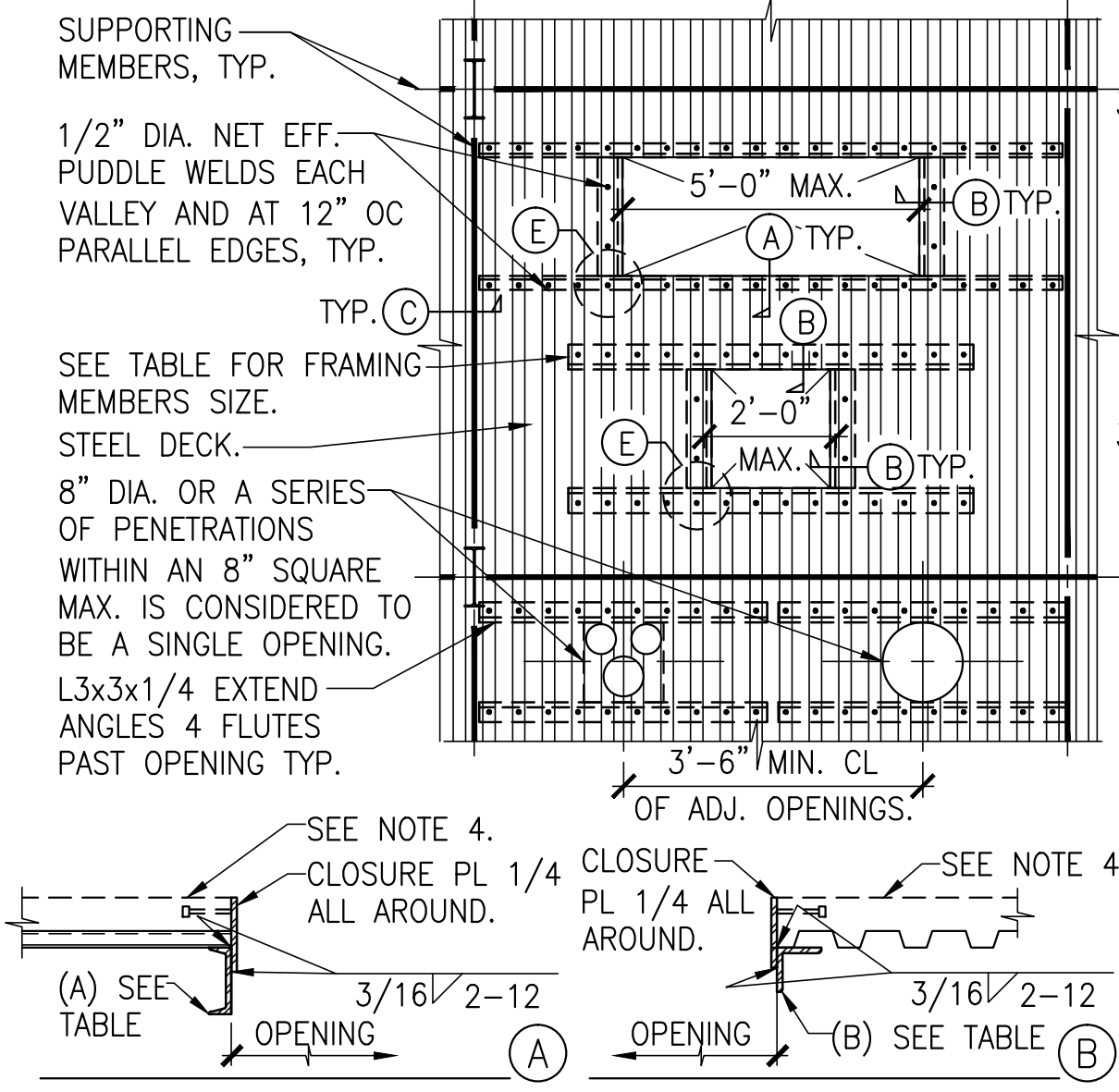
NOTES:  
1. DRILL STRESS RELIEVING HOLE PRIOR TO SLOTTING TUBE, HOLE SHALL BE 1/8" LARGER THAN PLATE WIDTH.

NOTES:  
1. ALL DECK MUST BE SUPPORTED AROUND COLUMNS.  
2. USE THIS DETAIL AT CONTRACTORS OPTION OR AS REQUIRED BY DECK MANUFACTURER OR VENDOR.

**TYPICAL BEAM CONNECTION AND DETAILS**  
NTS

**W BEAM TO TUBE COLUMN**  
NTS

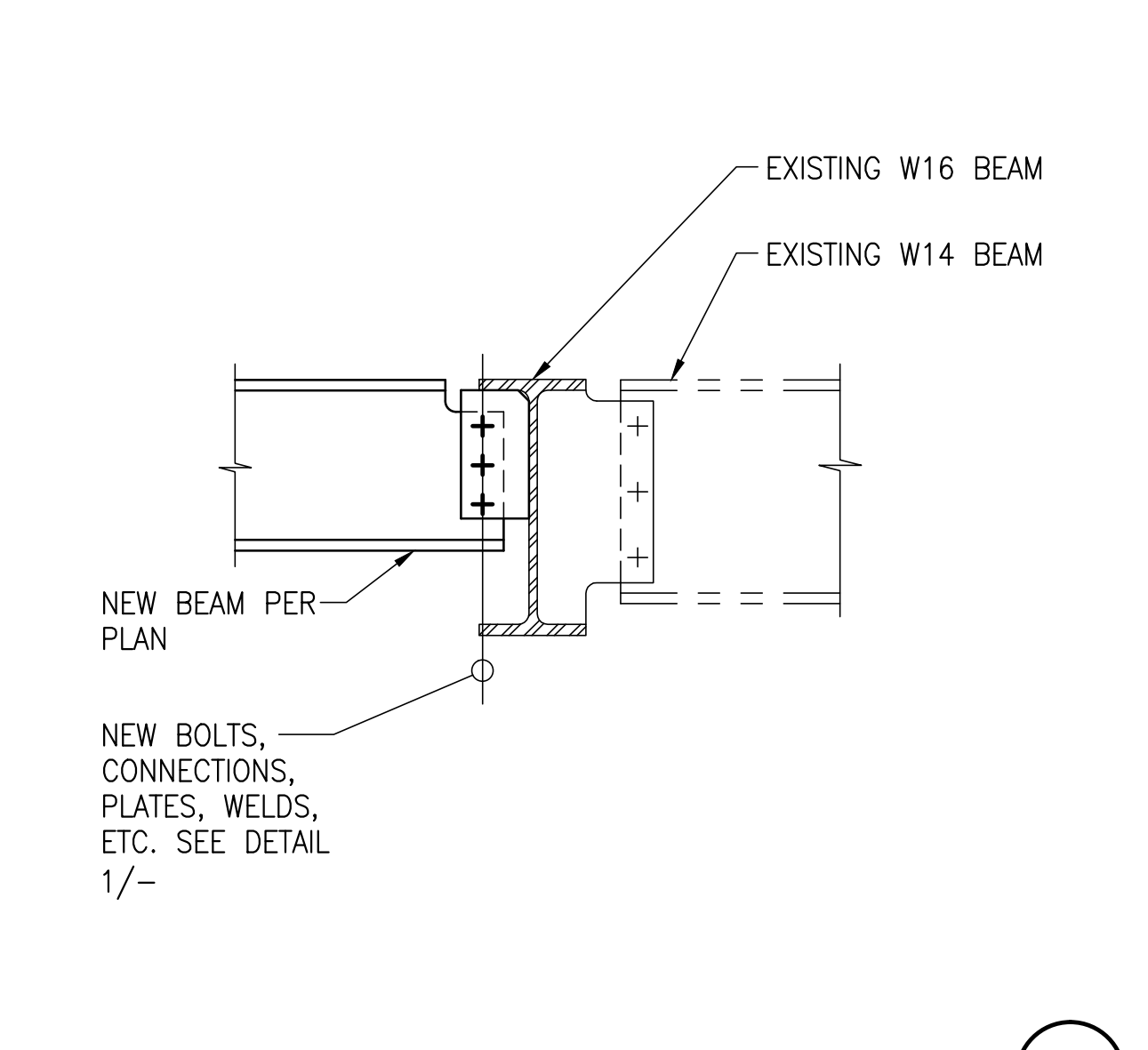
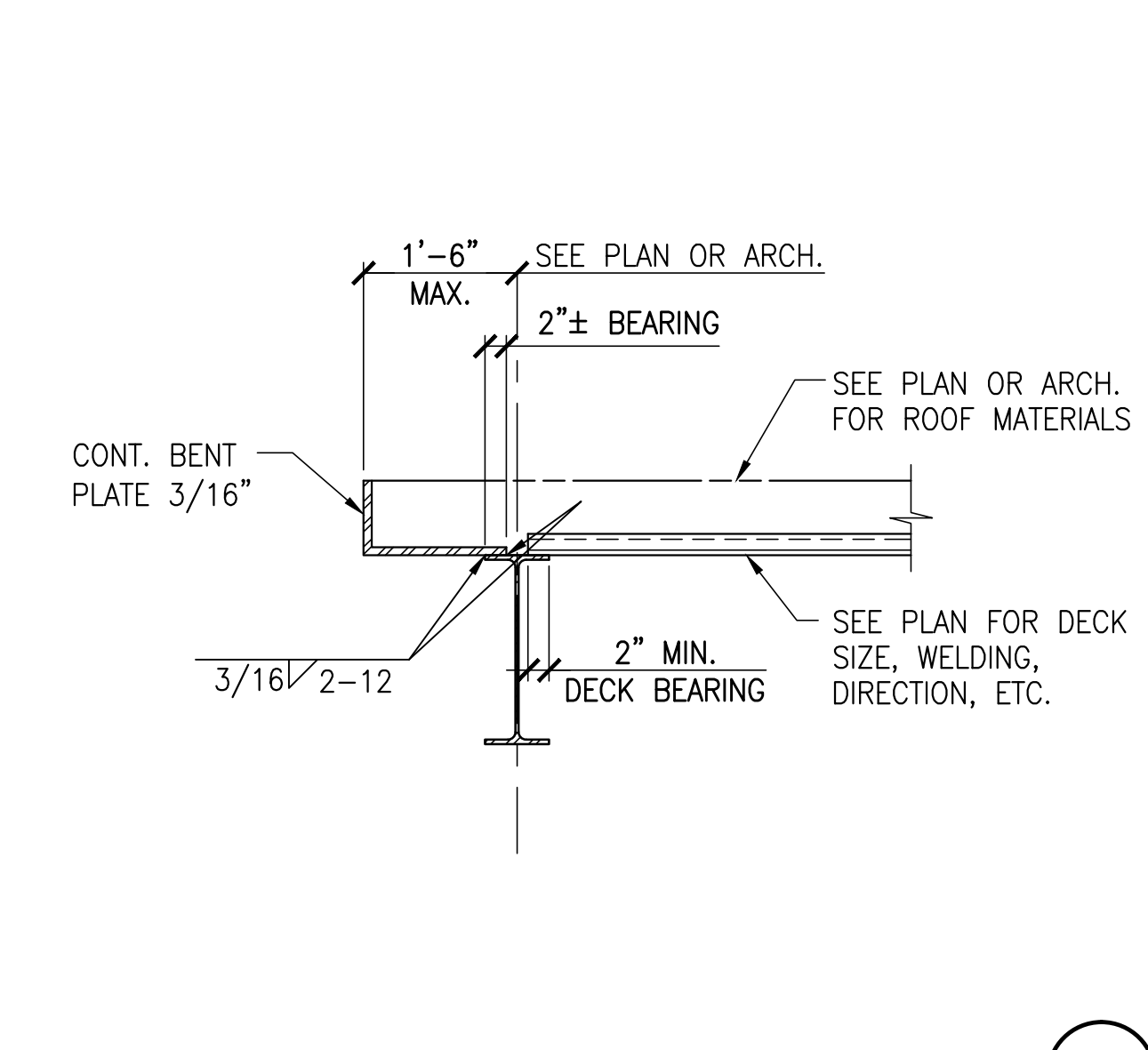
**SUPPORT OF STEEL DECK AT COLUMNS**  
NTS



NOTES:  
1. ADDED FRAMING IS NOT REQD. FOR OPENINGS WHERE LONG OPENING DIM. IS LESS THAN 6".  
2. FOR STRUCTURE REQUIRED TO SUPPORT MECHANICAL UNIT GRAVITY AND LATERAL LOADS AND CURBS ETC. SEE MECH. AND ARCH. DRAWINGS.  
3. SEE MECH. FOR EQUIPMENT MOUNTING, ATTACHMENT OPENINGS, ETC.  
4. COMPOSITE SLAB OR ROOFING SEE PLANS AND ARCH. DRAWINGS. WHERE HARD ROCK CONC. OCCURS PROVIDE 3/4" DIA. X 8" NELSON HEADED STUDS AT 24" OC.  
5. CONNECTION AT TOP CHORD PANEL POINT. IF NOT AT PANEL POINT, FIELD INSTALL L2X2X1/4 FROM POINT OF LOAD TO NEAREST PANEL POINT ON BOTTOM CHORD. SHORE JOIST DURING WELDING.

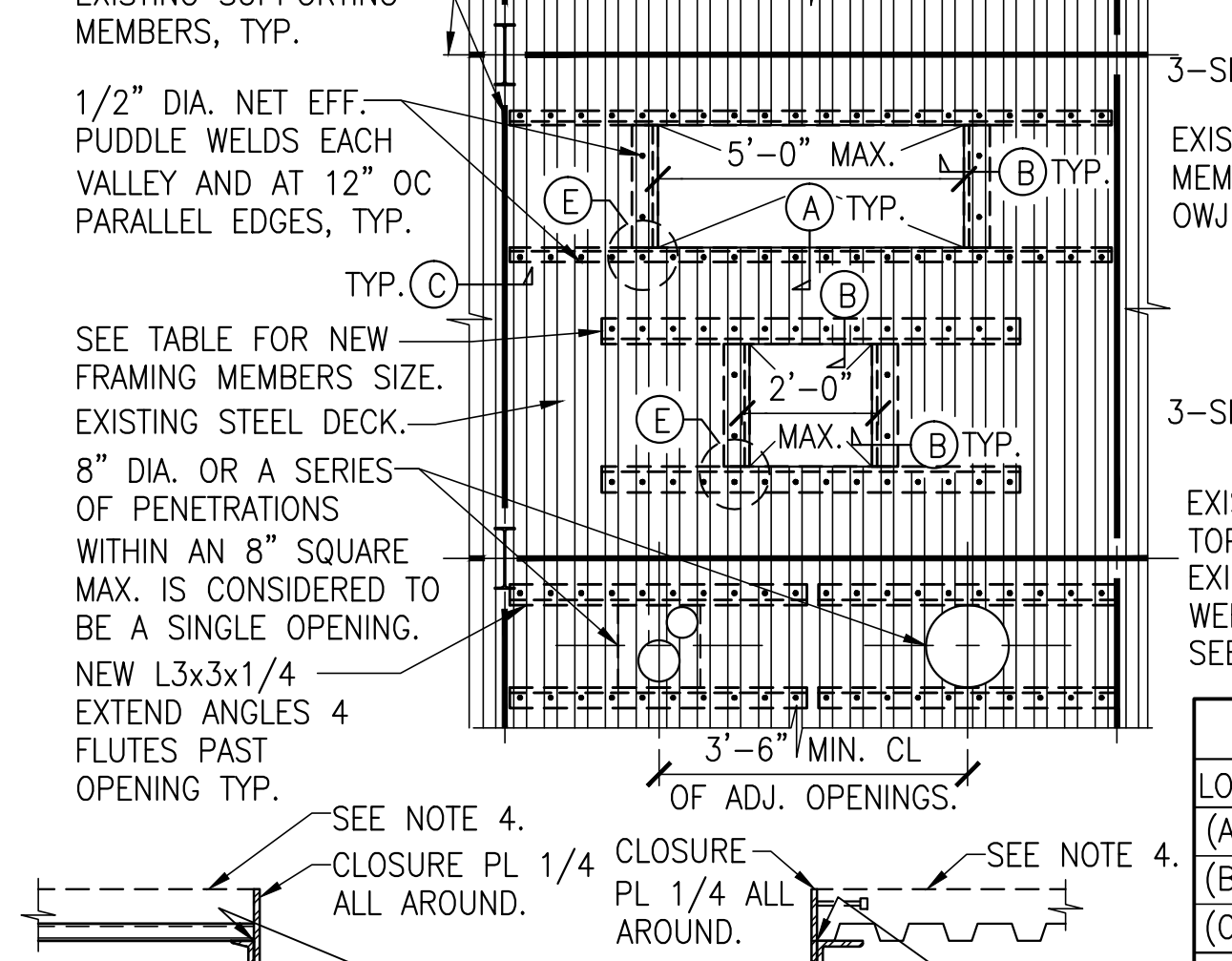
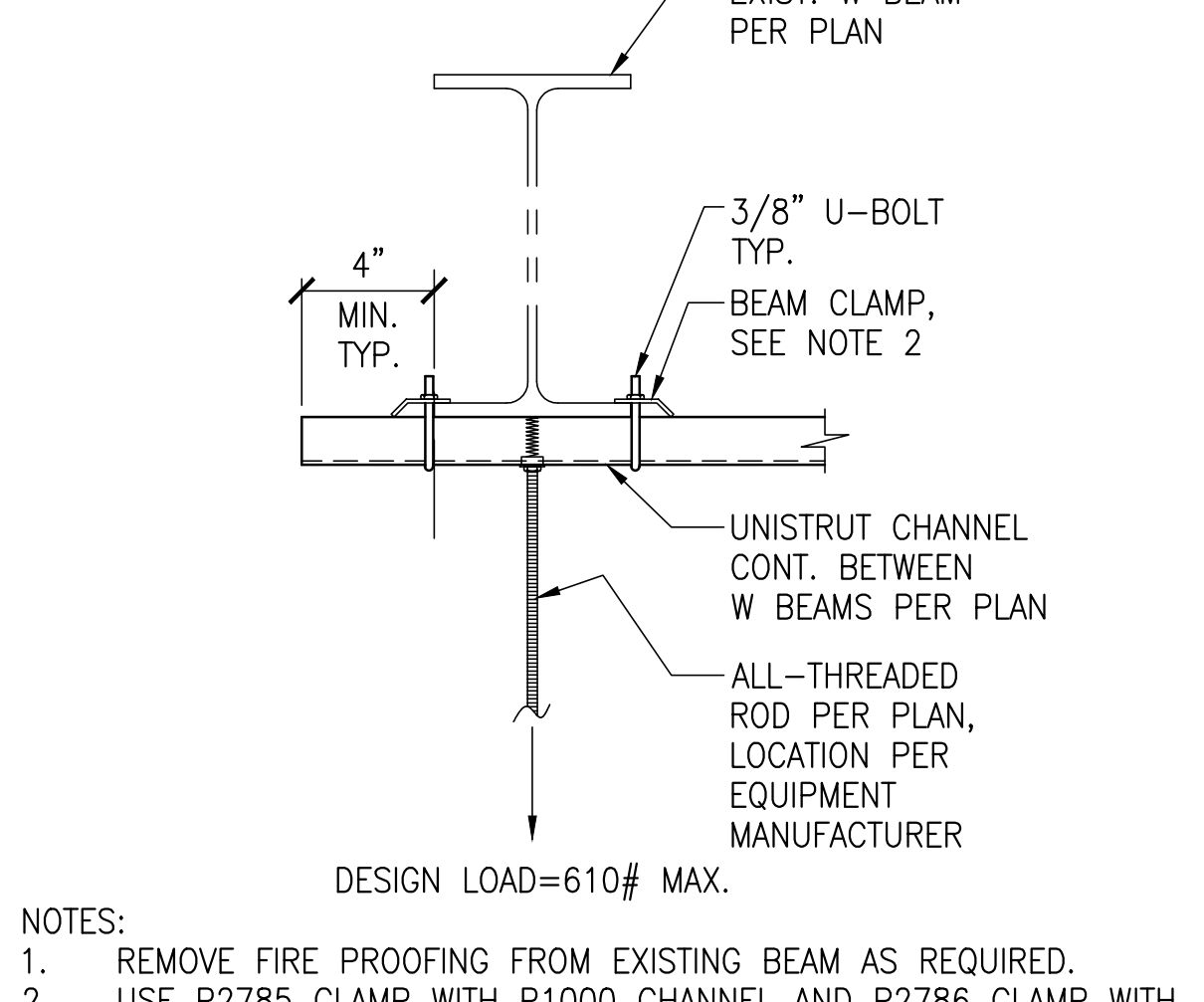
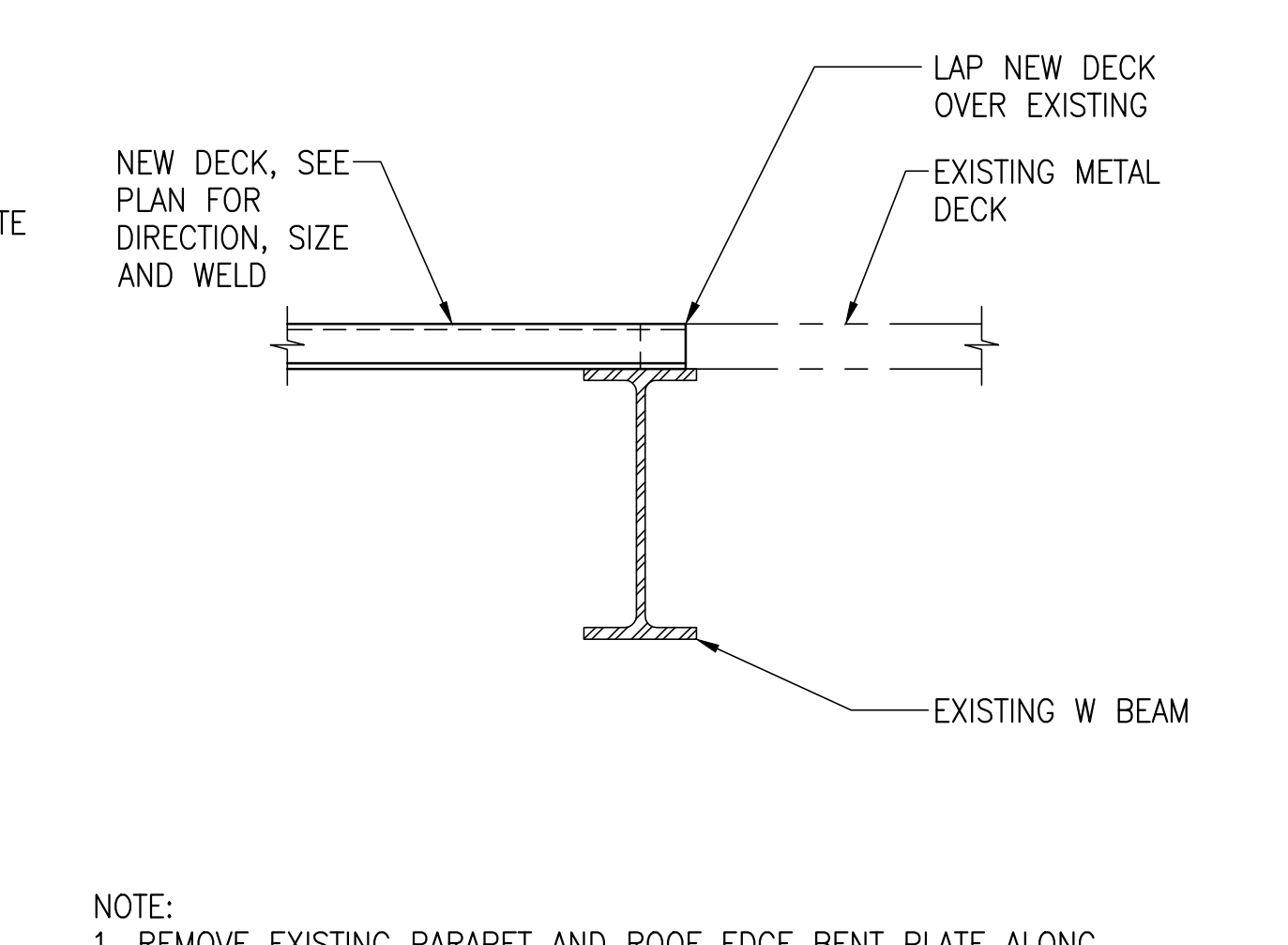
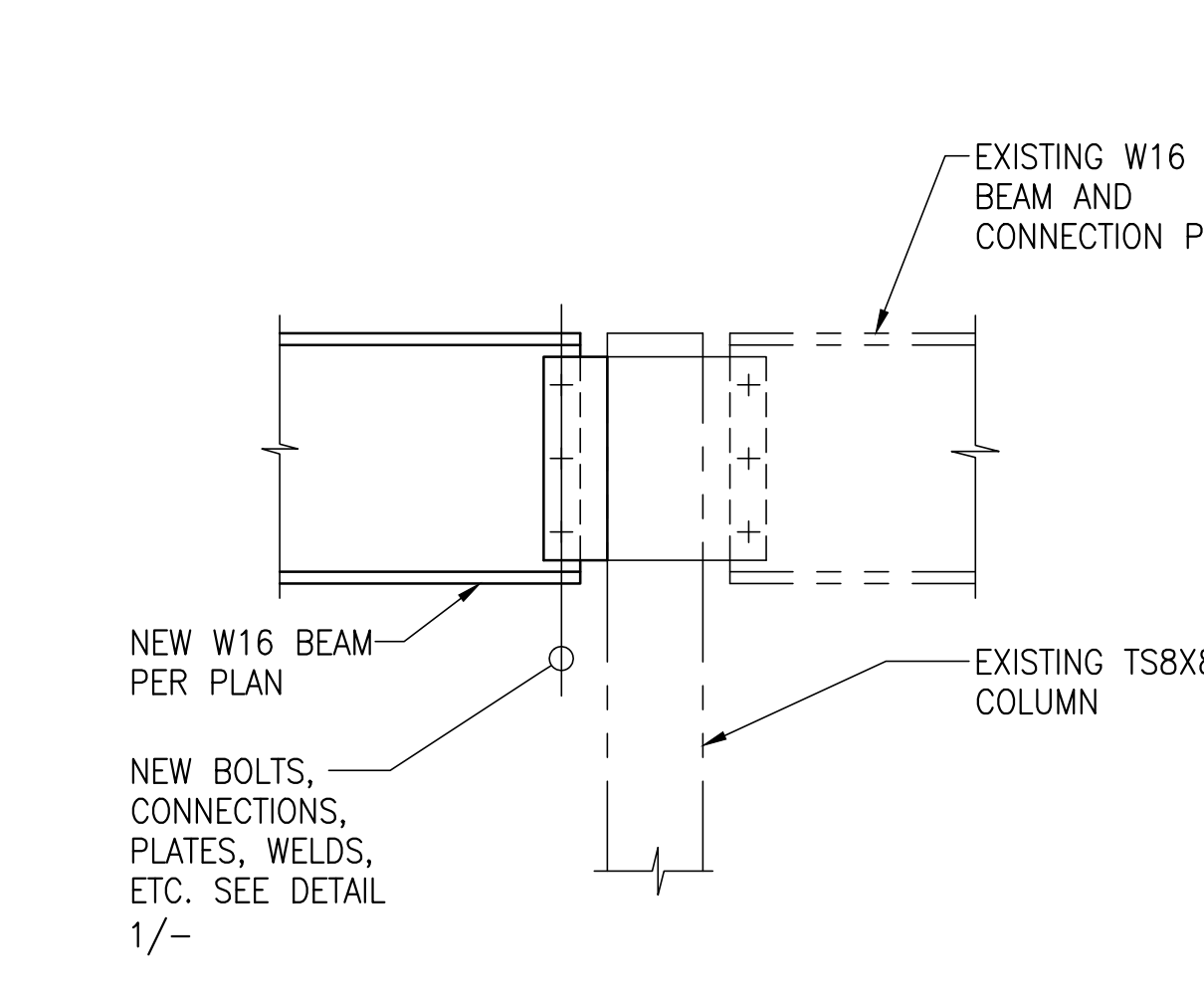
**TYPICAL OPENING IN STEEL DECK**  
NTS

**DECK WELDING DETAIL**  
NTS



**EDGE OF ROOF DECK**  
NTS

**BEAM TO EXISTING BEAM**  
NTS



NOTES:  
1. REMOVE EXISTING PARAPET AND ROOF EDGE BENT PLATE ALONG EXISTING BEAM AS REQUIRED.  
2. USE P2785 CLAMP WITH P1000 CHANNEL AND P2786 CLAMP WITH P5500 CHANNEL.

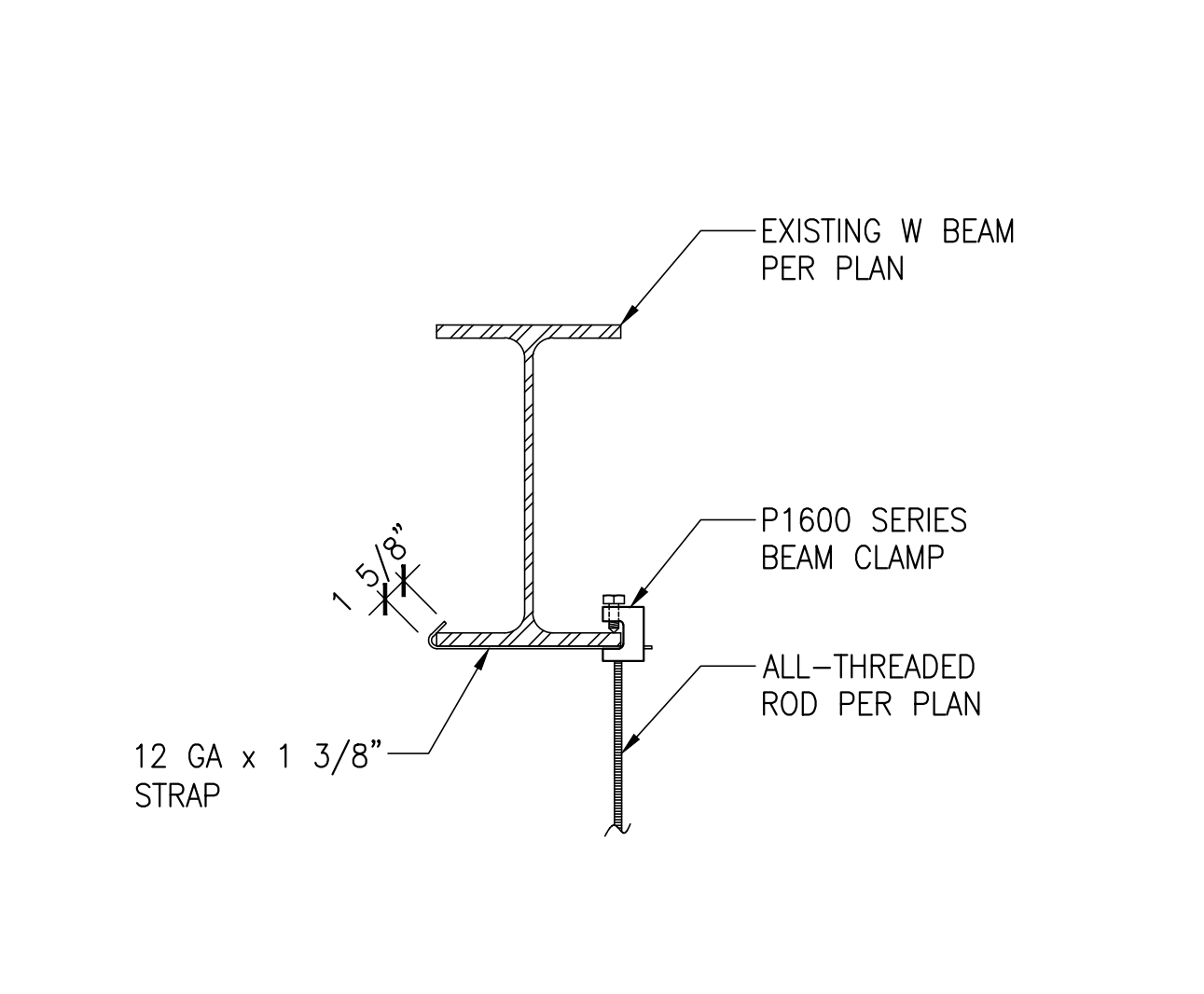
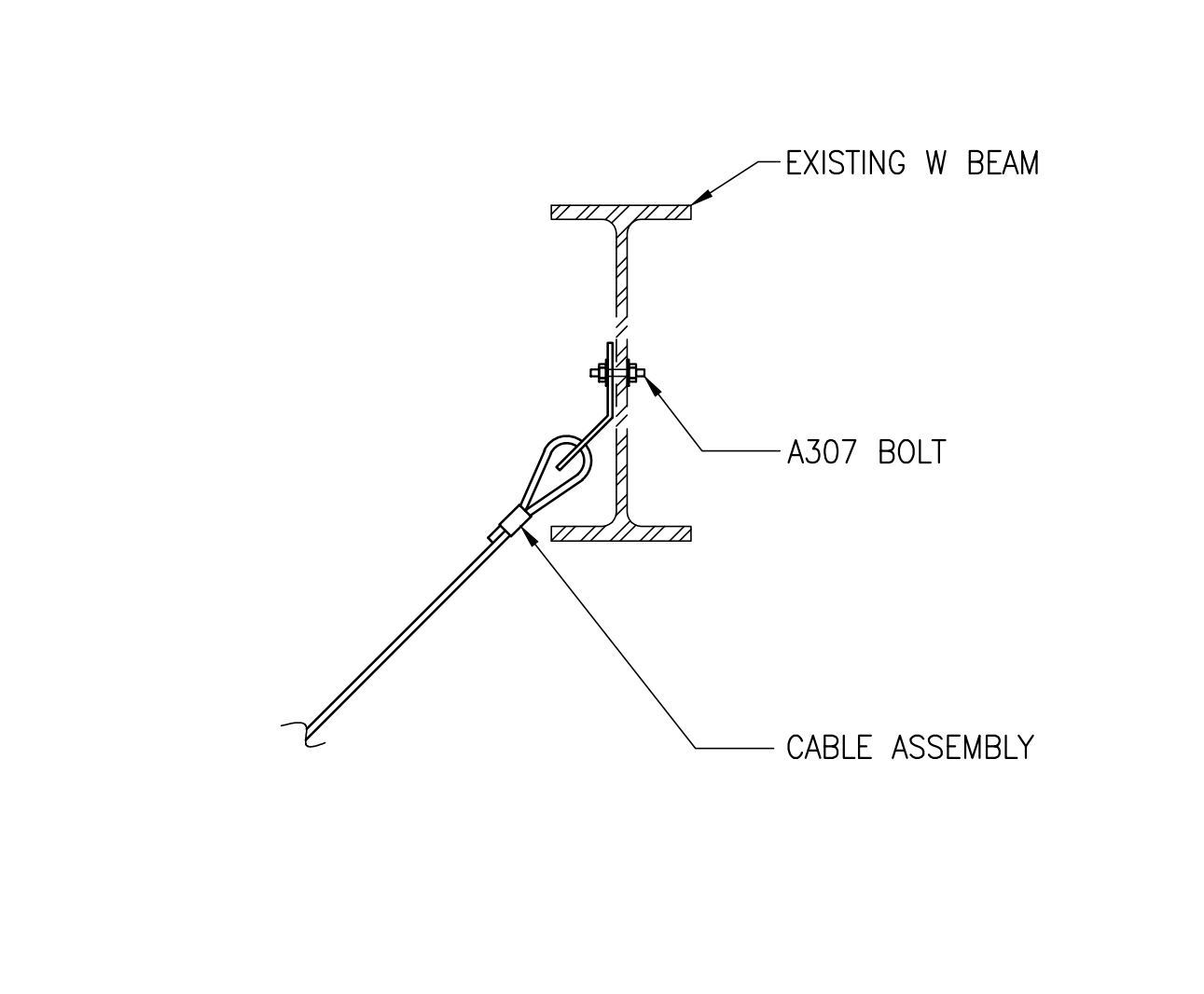
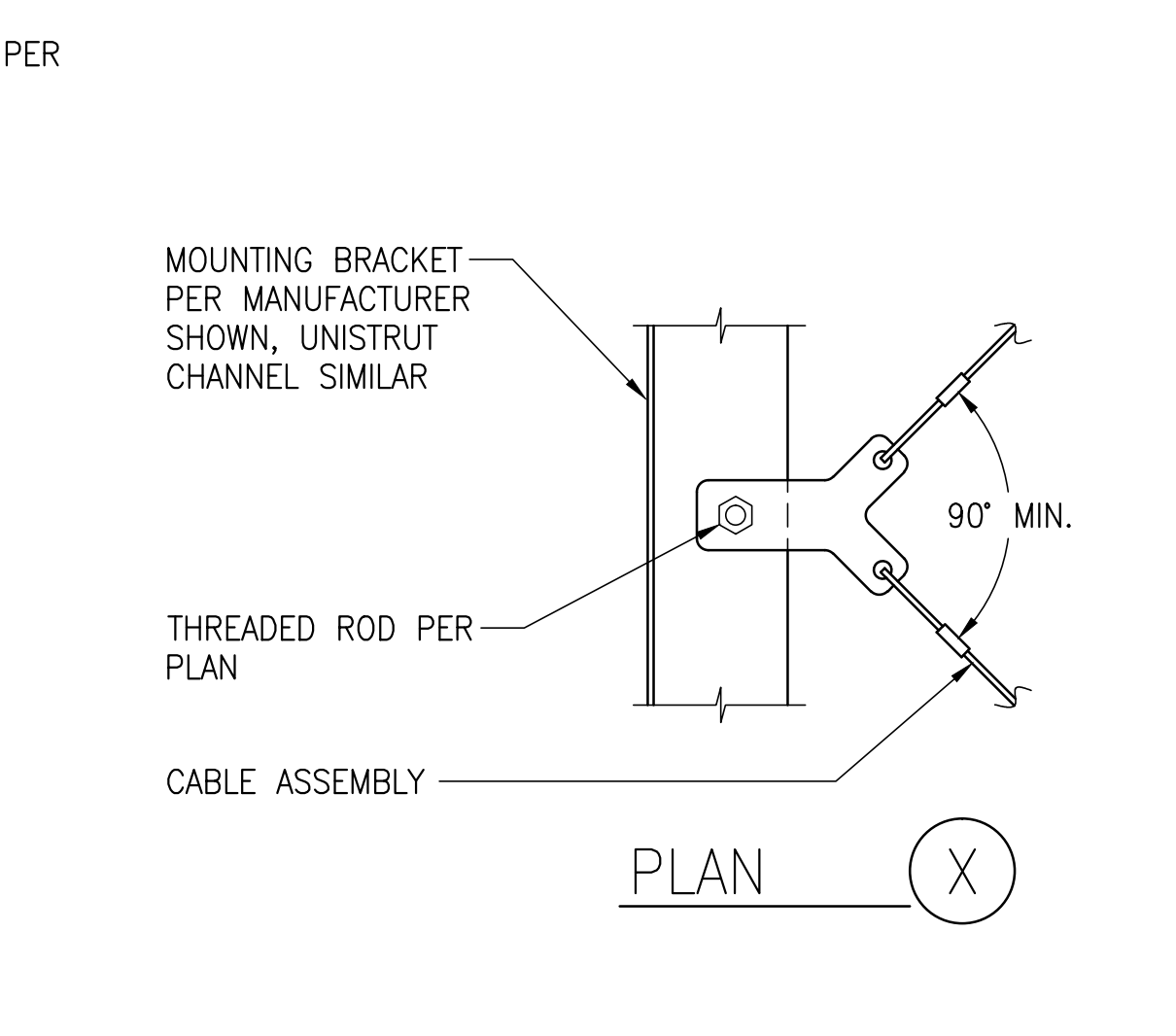
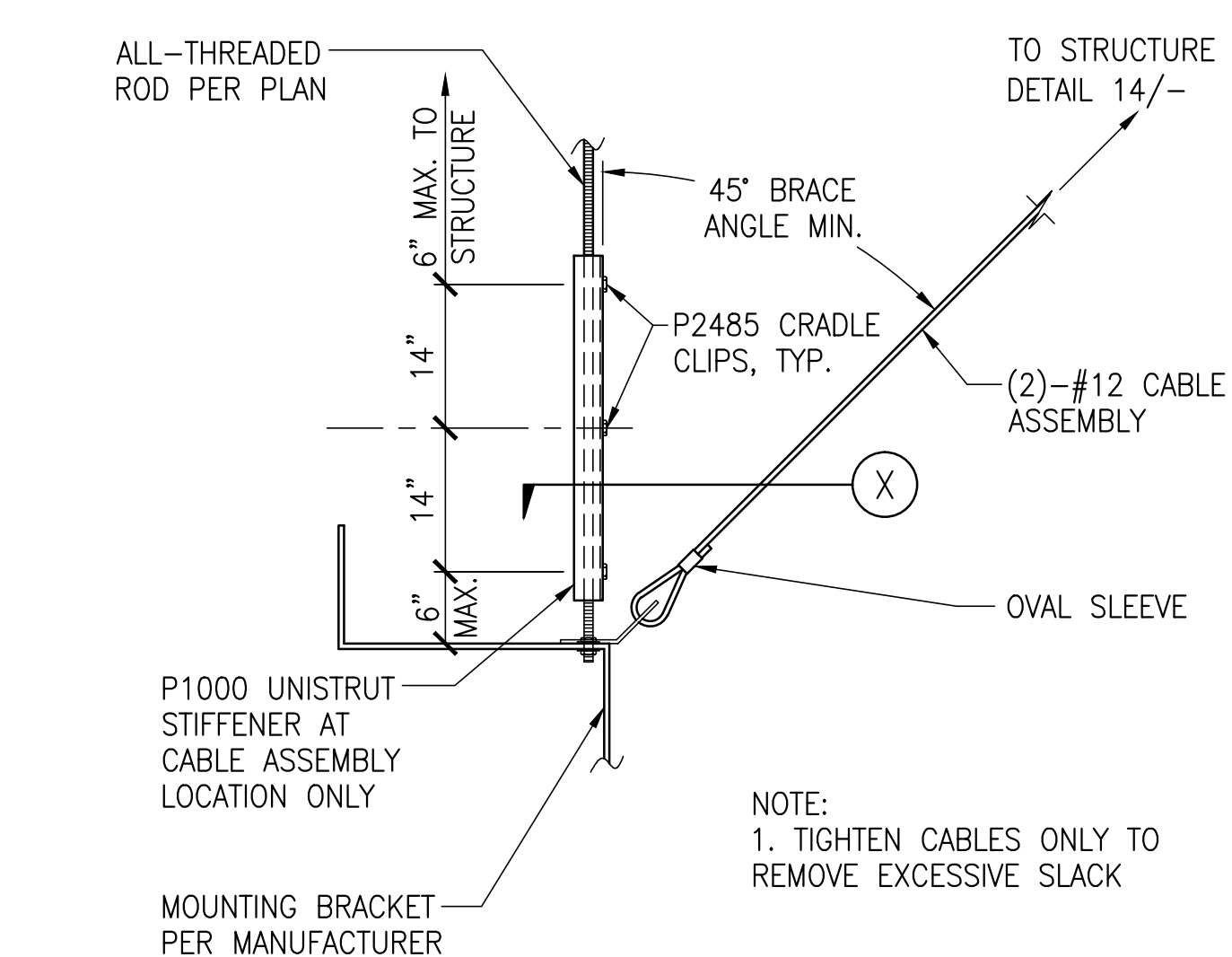
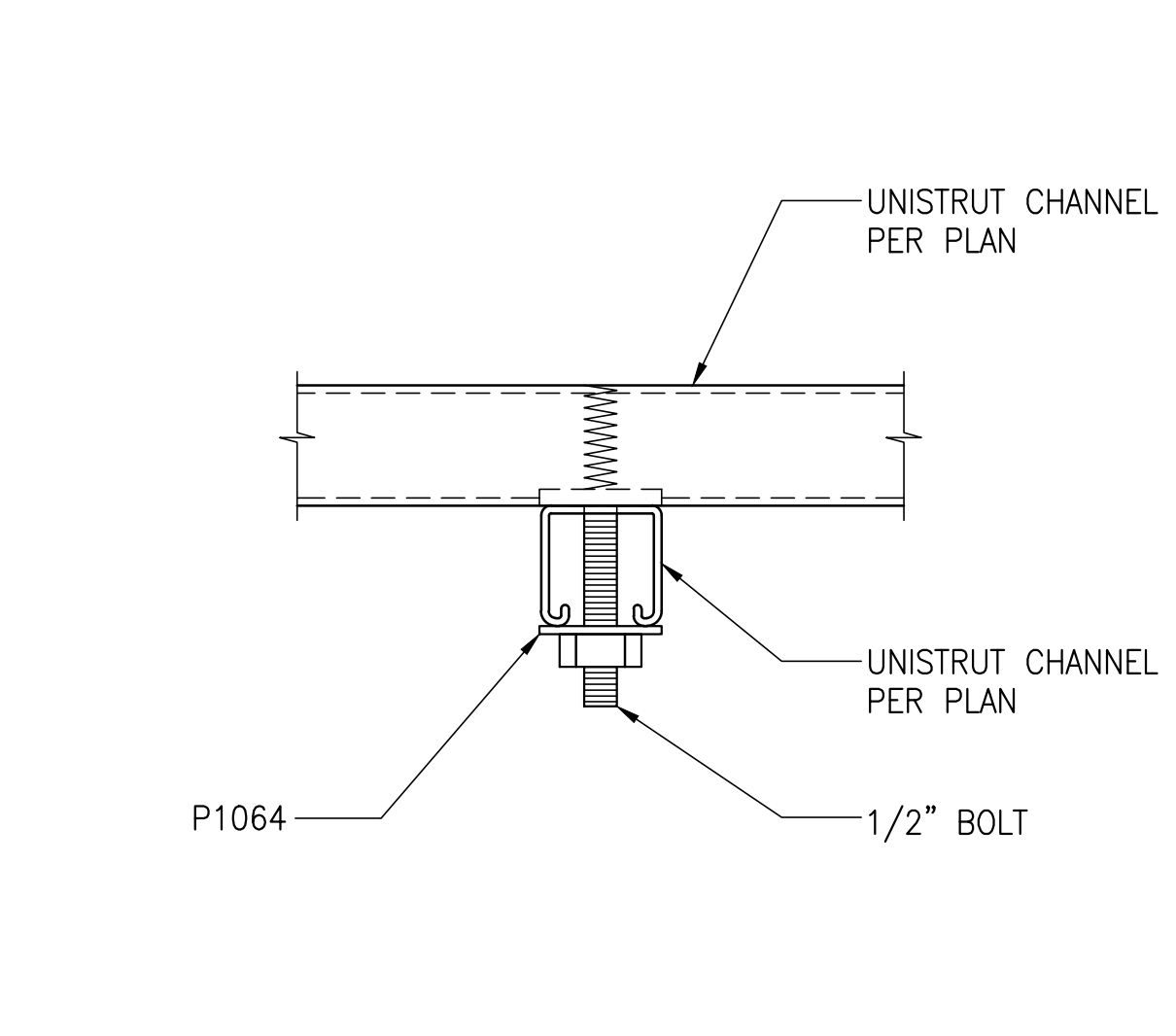
**BEAM TO EXISTING COLUMN**  
NTS

**NEW STEEL DECK TO EXISTING STEEL DECK**  
NTS

**HANGER ATTACHMENT TO EXISTING W BEAM**  
NTS

**TYPICAL OPENING IN EXISTING STEEL DECK**  
NTS

**BEAM TO EXISTING BEAM**  
NTS



**UNISTRUT TO UNISTRUT CONNECTION**  
NTS

**SEISMIC BRACING DETAIL**  
NTS

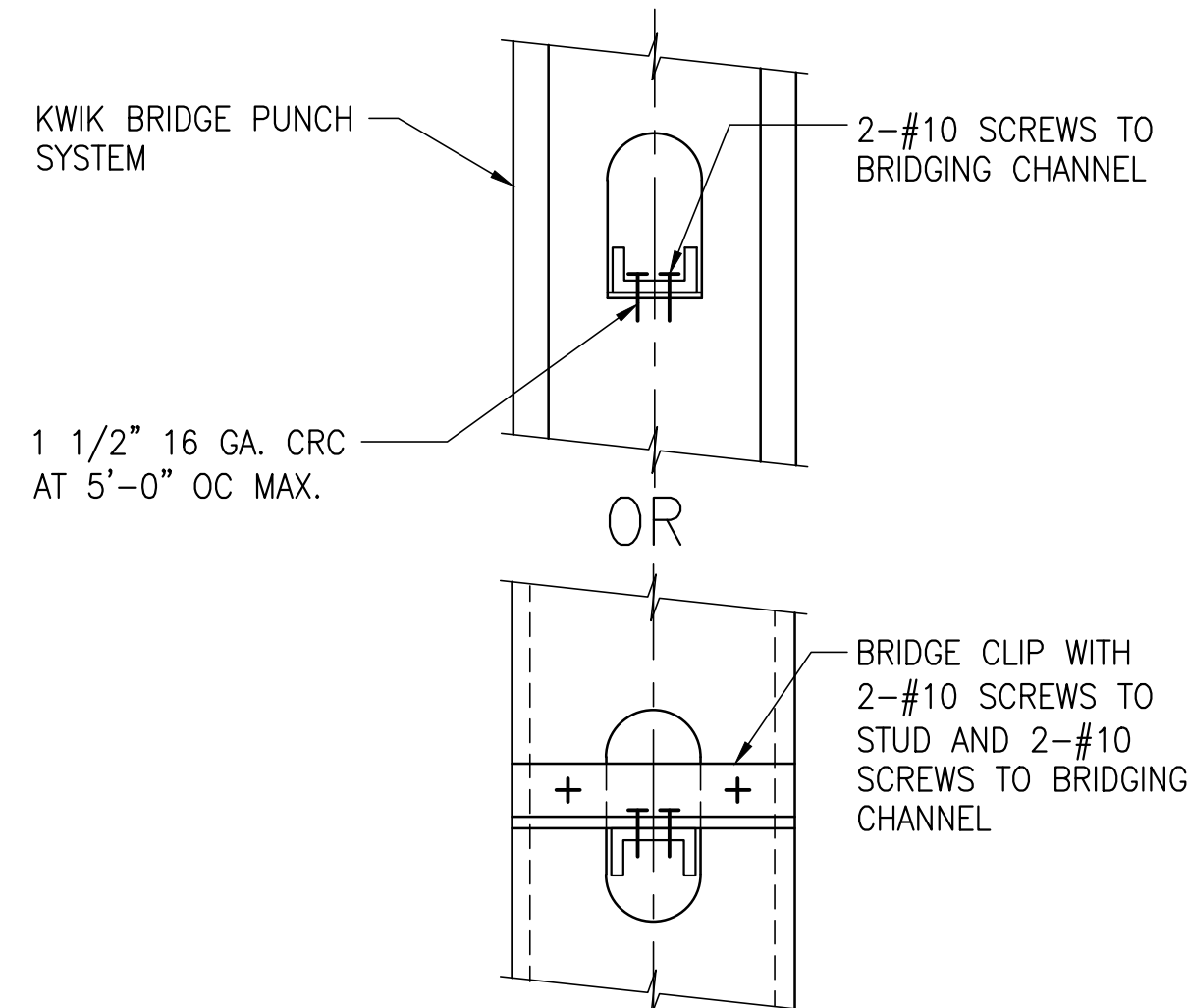
**VENTILATION HOOD SEISMIC BRACING DETAIL**  
NTS

**HANGER ATTACHMENT TO EXISTING W BEAM**  
NTS

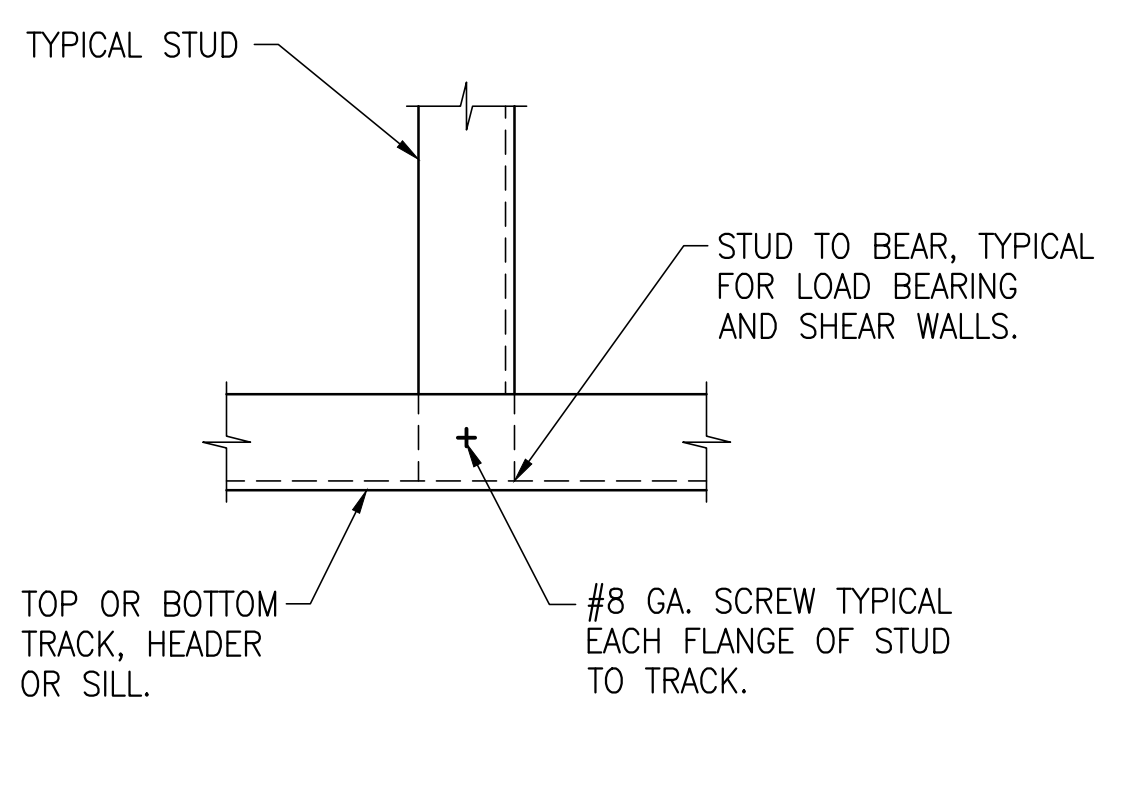
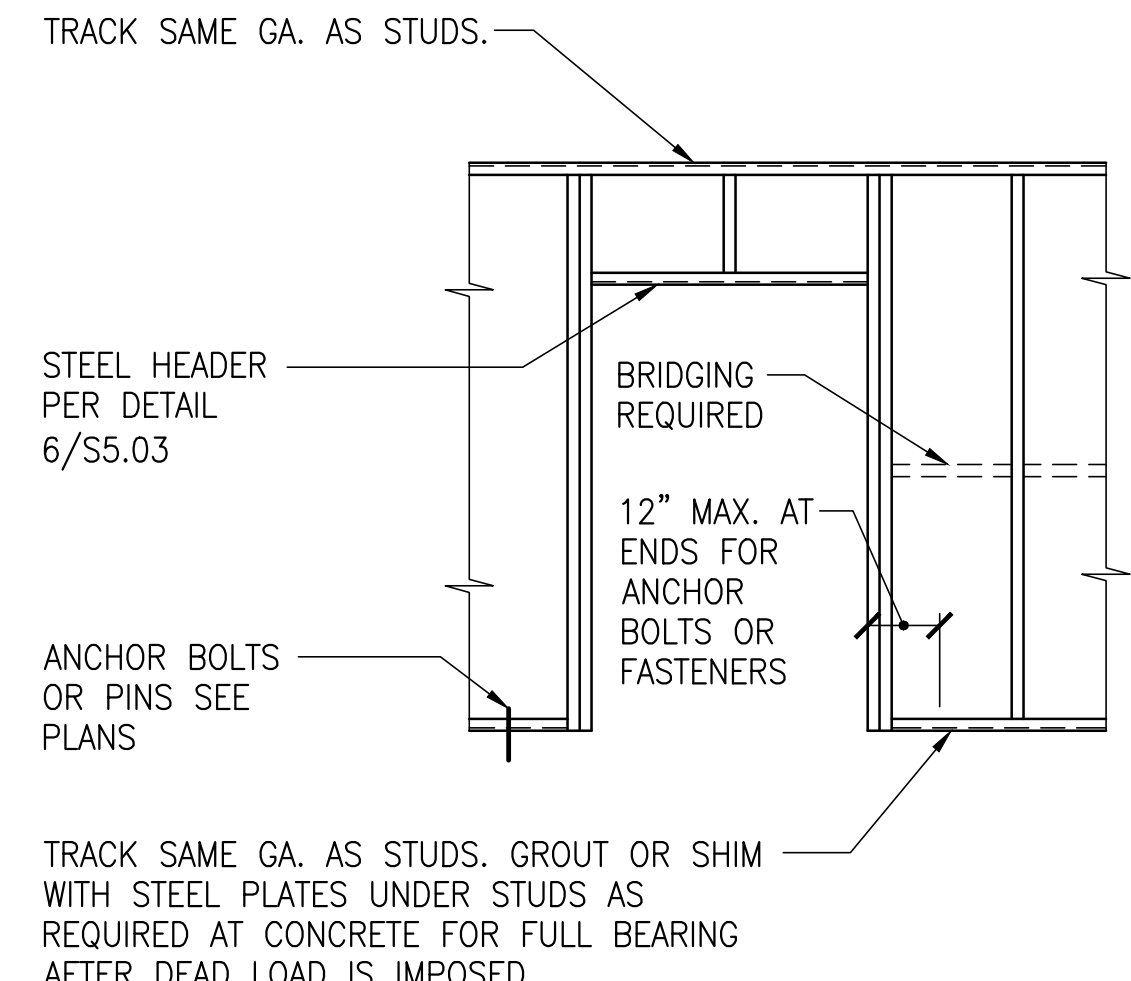
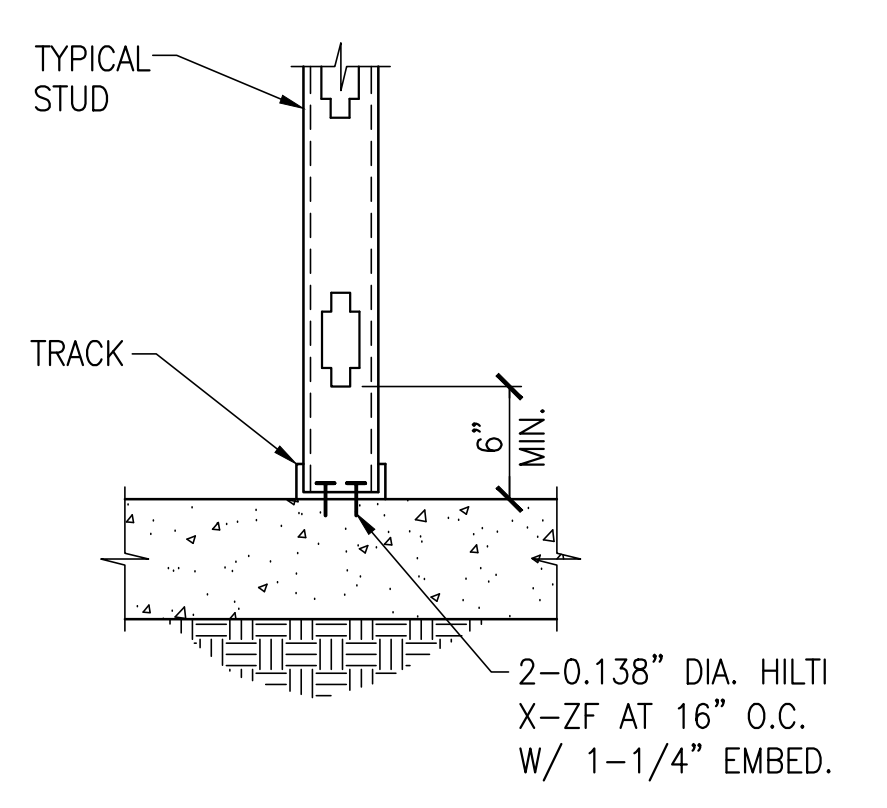
**HANGER ATTACHMENT TO EXISTING W BEAM**  
NTS

SHAPE	DESIGNATION	FLANGE WIDTH
S-SECTIONS	S125	1.25"
	S137	1.375"
	S162	1.625"
	S200	2"
	S250	2.5"
U-SECTIONS	U50	.50"
	F125	1.25"
I-SECTIONS	T125	1.25"
	T150	1.5"
	T200	2"

EXAMPLE CALL OUT: 600S162-54  
 600: SIZE = 6"  
 S: SECTION DESIGNATION (STYLE) = S STUD  
 162: 1.625" FLANGE WIDTH  
 54: .054" THICKNESS  
 REFER TO: STEEL STUD MANUFACTURERS ASSOCIATION



NOTES:  
 1. SEE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) FOR BRIDGING REQUIREMENTS AT INTERIOR NON-STRUCTURAL WALLS.



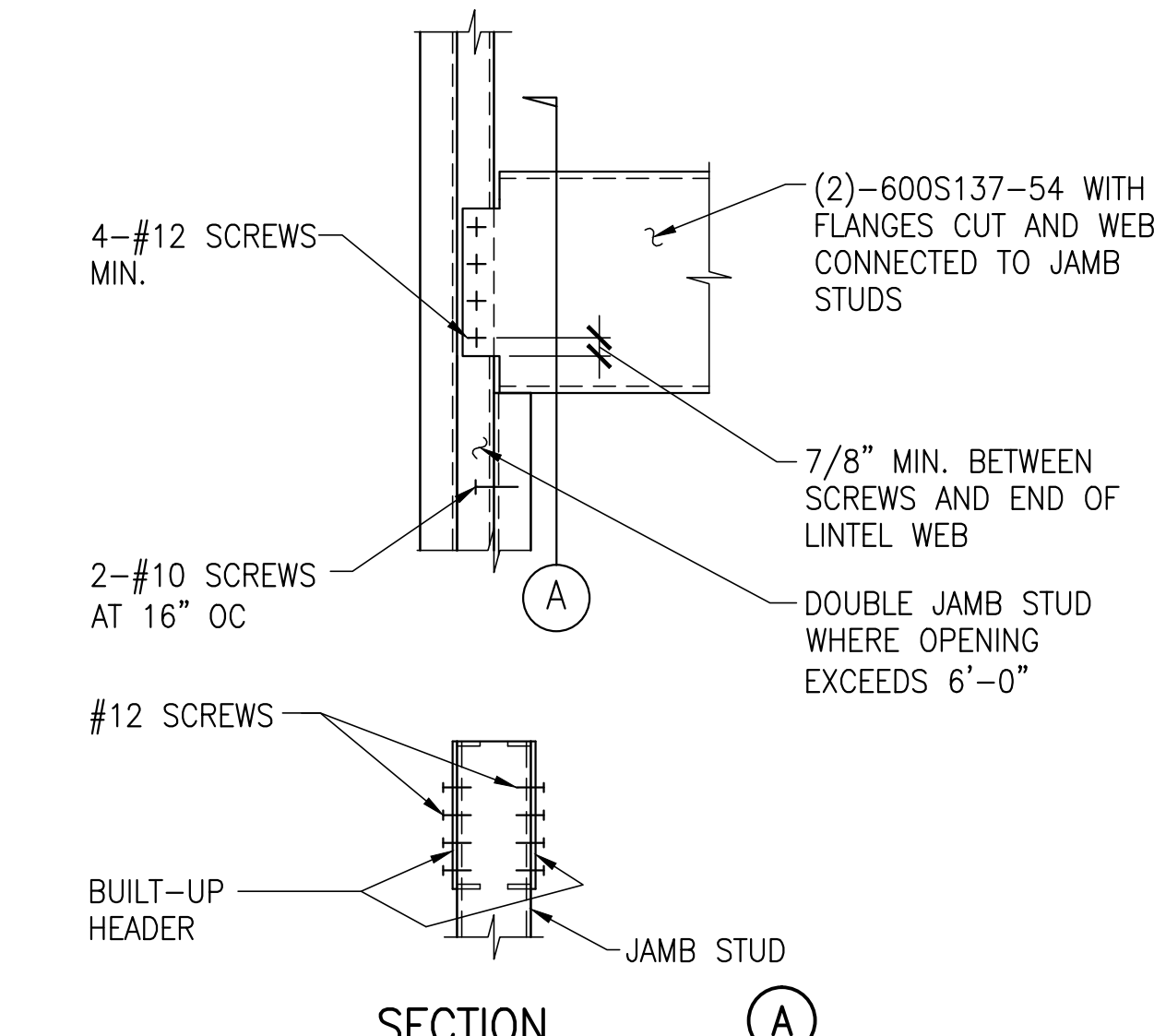
**1 STEEL STUD/JOIST SECTION IDENTIFICATION**  
 NTS SS001

**2 COLD-ROLLED CHAN'L BRIDGING**  
 NTS SS013A

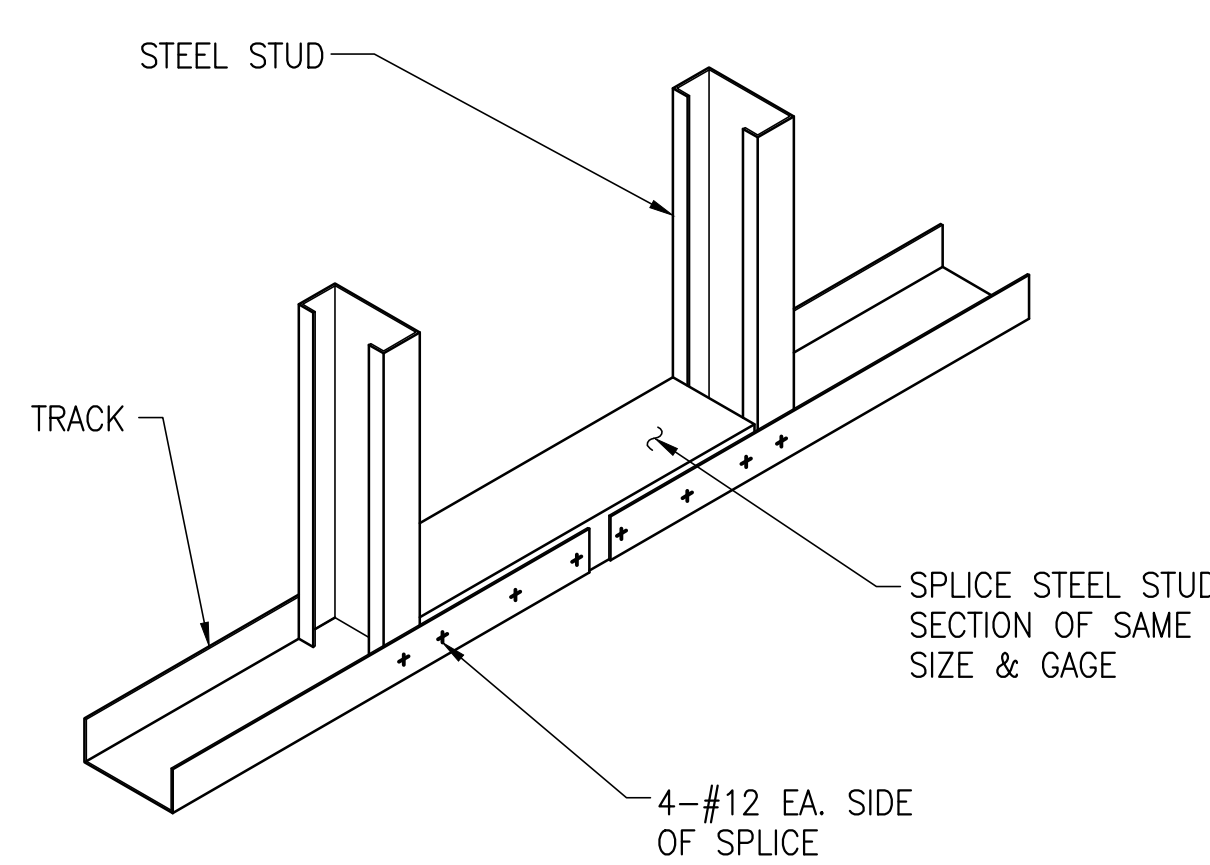
**3 BOTTOM OF WALL AT CONCRETE**  
 NTS SS002

**4 STEEL STUD WALL ELEVATION**  
 NTS

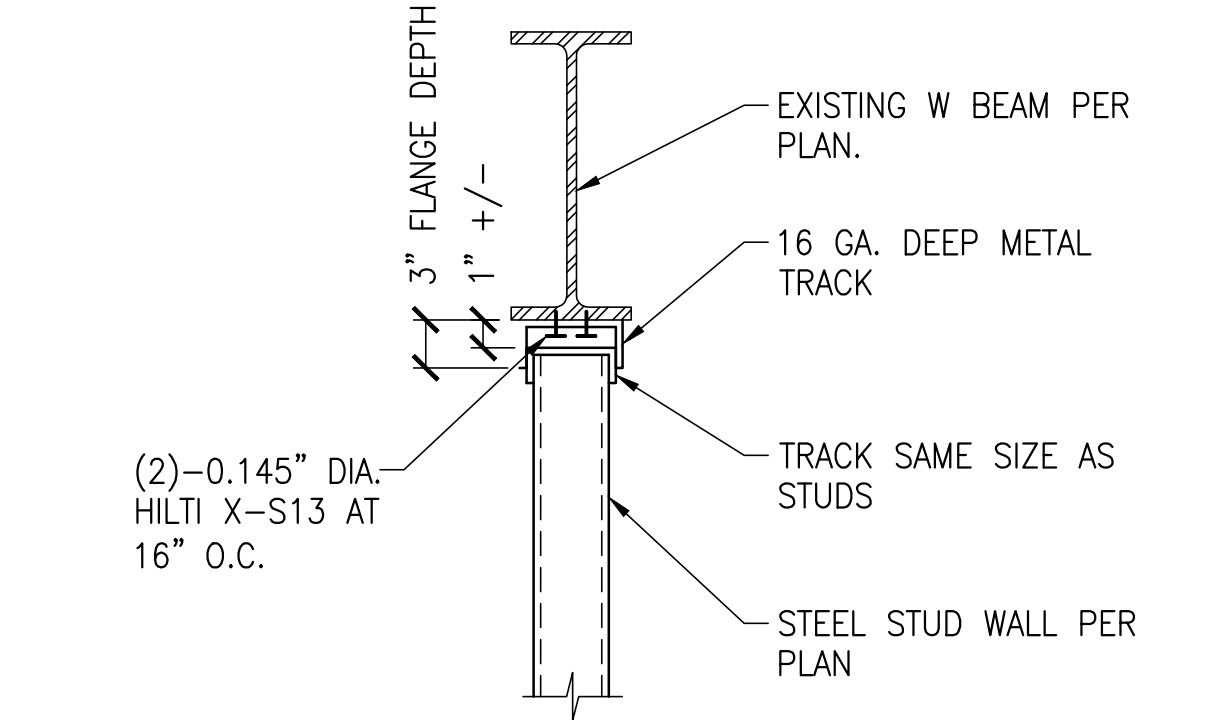
**5 TYPICAL STUD CONNECTION**  
 NTS SS005



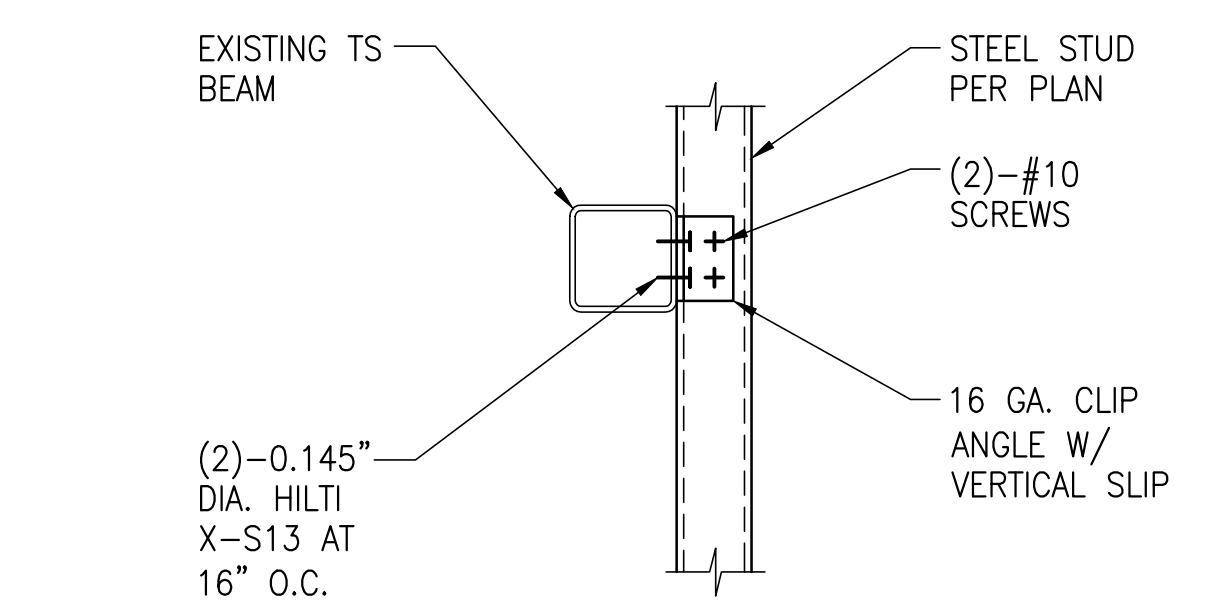
**6 STEEL HEADER**  
 NTS SS007



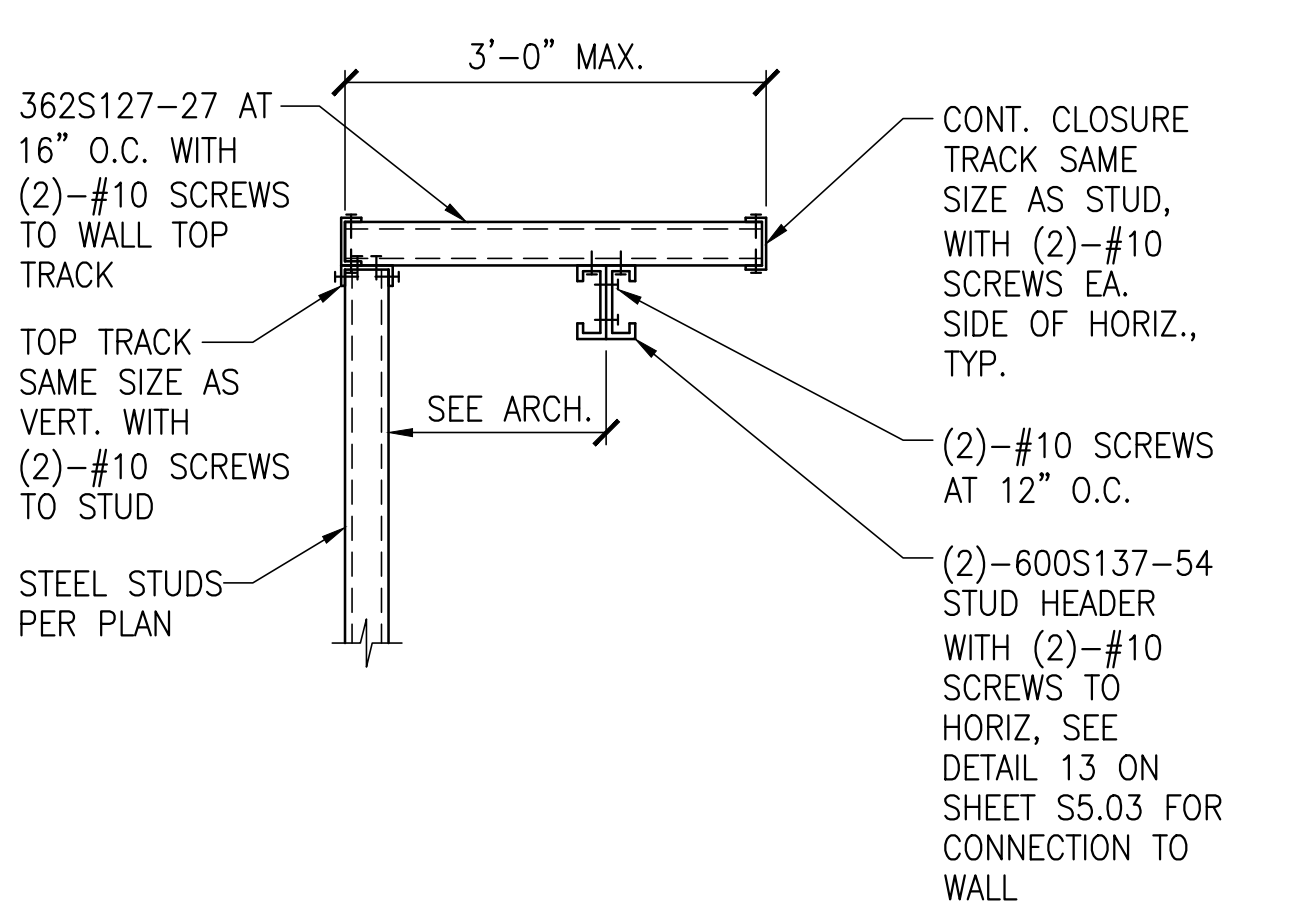
**7 TYPICAL CONTINUOUS TRACK SPLICE**  
 NTS SS010



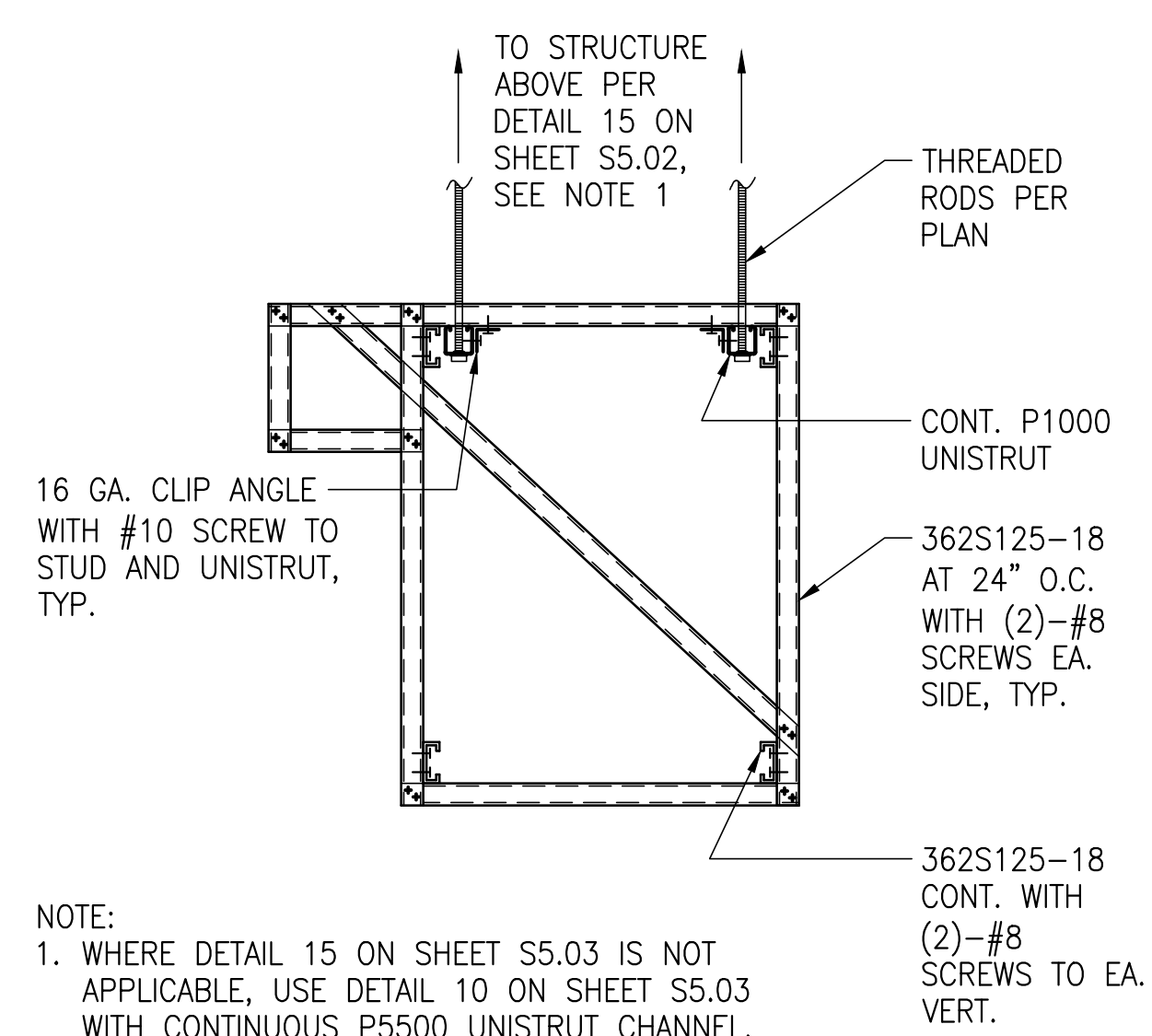
**8 STEEL STUD WALL TO BEAM CONNECTION**  
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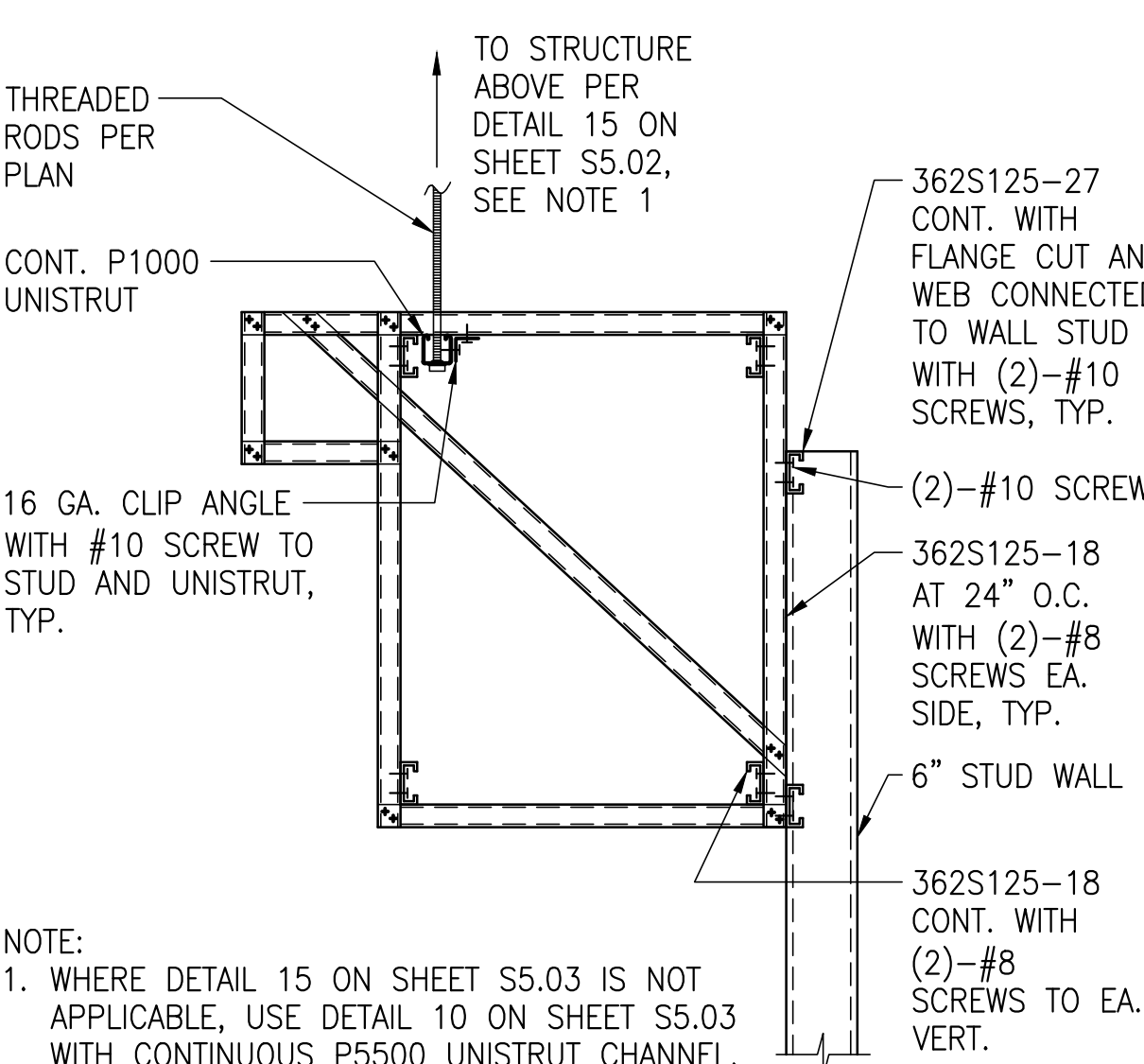
**9 STEEL STUD TO EXISTING BEAM**  
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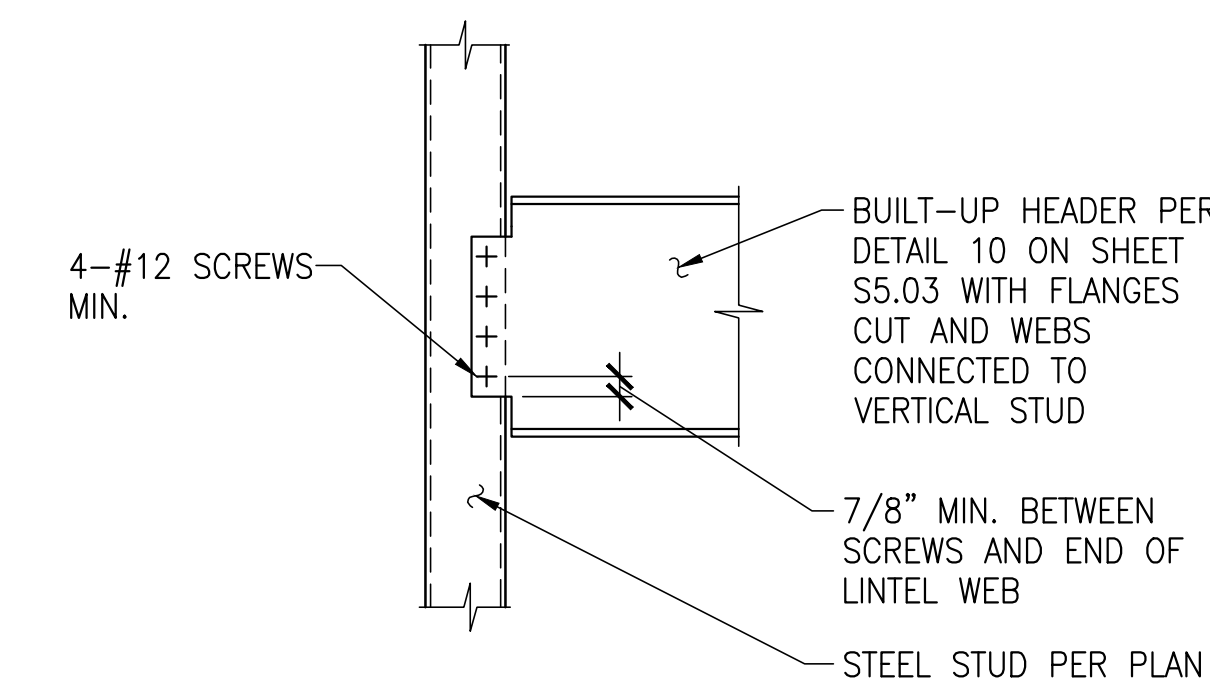
**10 BEVERAGE STATION SOFFIT**  
 NTS



**11 SOFFIT SECTION**  
 NTS



**12 SOFFIT SECTION**  
 NTS



**13 STEEL HEADER**  
 NTS

1	REVISIONS	06/06/11
2	PERMIT REVIEW	06/27/11
3	PERMIT REVIEW	07/08/11

**CONSTRUCTION DOCUMENTS**

SHEET TITLE: <b>STEEL STUD DETAILS</b>	
SHEET NUMBER: <b>S5.03</b>	
DRAWN BY: EK	REVIEWED BY: SN/MT
DATE: 06/06/11	PROJECT NUMBER: 1101.00