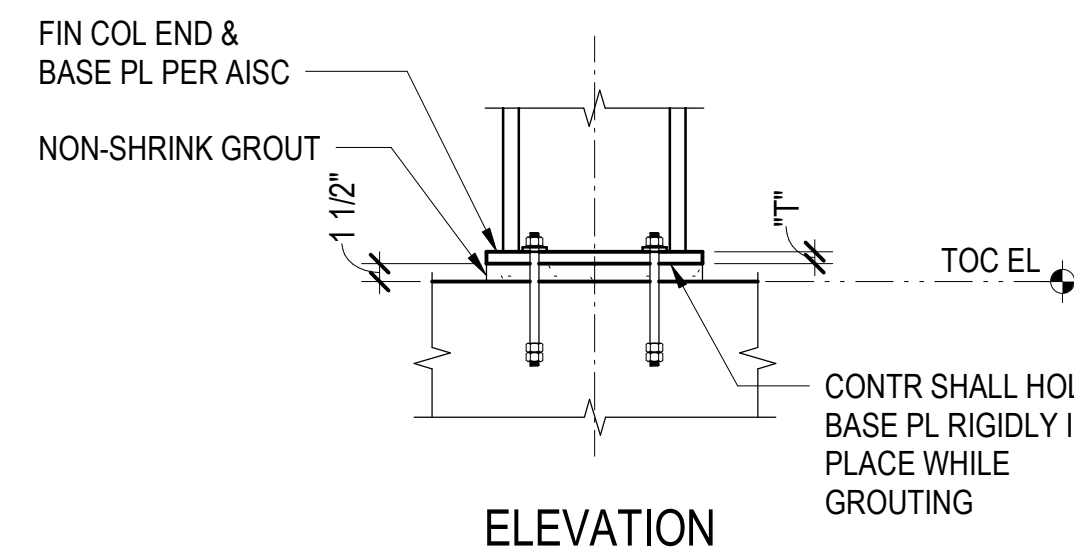


#### NOTES:

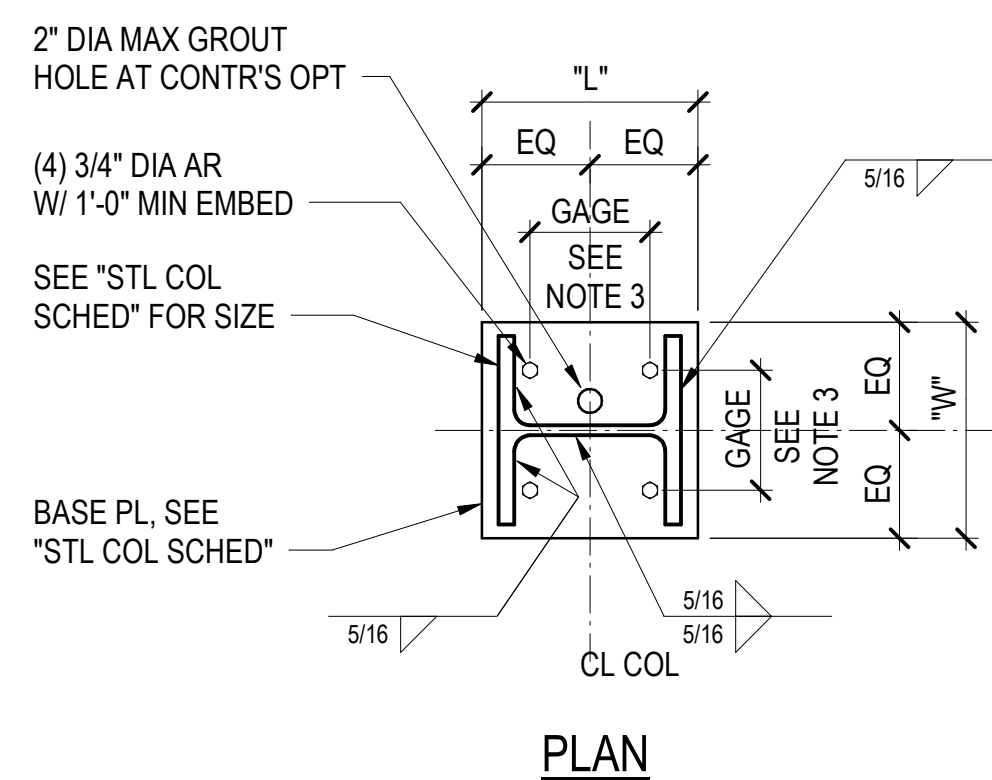
- WHERE NOTE APPLIES, BOLT TO BE CENTERED IN SLOTTED HOLE IN ANGLE. NUTS TO BE FINGER TIGHT. DAMAGE THREADS OF BOLT TO PREVENT BACK-OFF OF NUT.
- PROVIDE U-BAR REINFORCEMENT PERPENDICULAR TO SLAB EDGE WHERE EMBED IS LOCATED 6" OR LESS FROM ADJACENT OPENING OR SLAB EDGE.



#### NOTES:

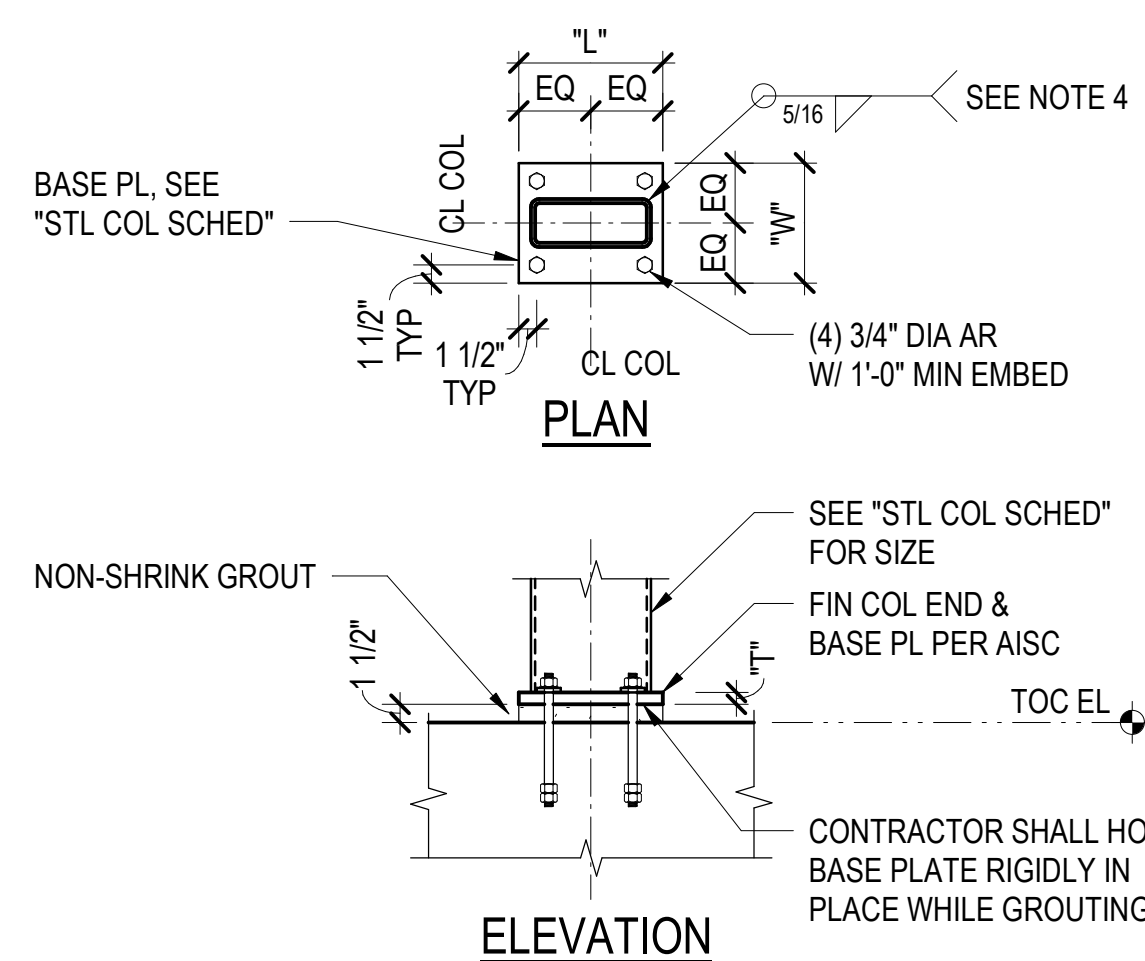
- TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
- BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER "AISC MANUAL - TABLE 14-2", UNLESS NOTED OTHERWISE.
- ANCHOR ROD GAGE SHALL BE AS FOLLOWS:  
W10: 5 INCHES  
W12: 6 INCHES  
W14: 8 INCHES

CONTRACTOR TO COORDINATE ANCHOR ROD GAGE WITH CONCRETE REINFORCING.



#### NOTES:

- TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
- BASE PLATE HOLE DIAMETER AND WASHER DIAMETER SHALL BE SIZED PER "AISC MANUAL-TABLE 14-2" UNLESS NOTED OTHERWISE.
- DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE.
- WHERE EDGE OF BASE PLATE IS LESS THAN 9/16 INCH FROM THE FACE OF THE HSS, PROVIDE A PARTIAL PENETRATION GROOVE WELD OF THE HSS TO THE BASE PLATE IN LIEU OF FILLET WELD ON THAT FACE OF THE HSS. GROOVE WELD SIZE SHALL BE THE THICKNESS OF THE HSS WALL OR 5/16 INCH, WHICHEVER IS LESS.

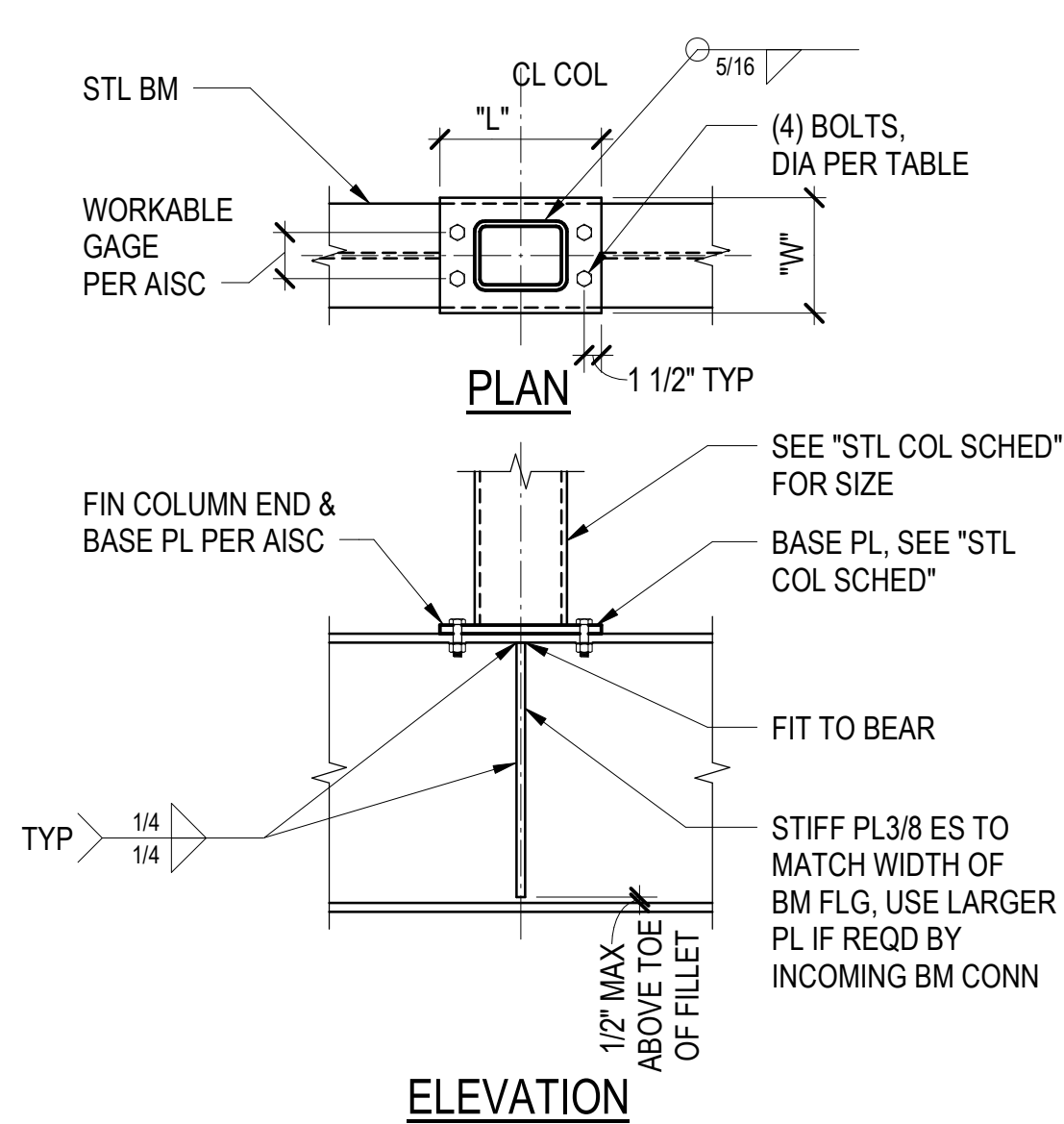


### 1 TYPICAL HSS POST TOP SLIP CONNECTION

TYPE	STEEL COLUMN SLAB PLATE SCHEDULE					
	T1	L1	W1	T2	L2	W2
1	-	-	-	3/4	18	1'-6"
2	-	-	-	1	18	1'-6"
3	-	-	-	1 1/4	18	1'-6"
4	-	-	-	1 1/2	18	2'-0"
5	3/4	12	1'-0"	3/4	18	1'-6"
6	3/4	12	1'-0"	1 1/4	18	1'-6"
7	3/4	12	1'-0"	1	18	1'-6"
8	3/4	12	1'-2"	1 1/4	18	1'-6"
9	3/4	12	1'-0"	1 1/2	18	1'-6"
10	1	12	1'-2"	1 1/4	18	1'-6"
11	1	12	1'-2"	1 1/2	18	1'-6"
12	1	14	1'-4"	1 1/4	18	1'-6"
13	1	14	1'-4"	1 1/2	18	1'-6"
14	1	6	1'-2"	1	18	1'-6"
15	1	6	1'-2"	1 1/4	18	1'-6"
16	1 1/4	14	1'-4"	1 1/2	18	1'-6"
17	1 1/4	6	1'-2"	1 1/4	18	1'-6"
18	1 1/4	6	1'-6"	1 1/4	18	1'-6"
19	1 1/4	6	1'-6"	1 1/2	18	1'-6"
20	1 1/4	6	1'-8"	1 1/2	18	1'-8"
21	1 1/4	6	1'-6"	1 1/2	18	2'-0"
22	1 1/2	14	1'-4"	1 3/4	18	1'-6"
23	1 1/2	6	1'-8"	1 1/2	18	1'-8"
24	1 1/2	6	1'-8"	1 1/2	18	2'-0"
25	1 1/2	6	2'-0"	1 1/2	18	2'-0"
26	1 1/2	6	2'-0"	1 1/2	18	2'-2"
27	1 1/2	6	2'-0"	1 3/4	18	2'-0"
28	1 1/2	8	2'-2"	1 1/2	18	1'-6"
29	1 1/2	8	2'-2"	1 1/2	18	2'-2"
30	1 1/2	15	1'-7"	1 1/2	18	1'-6"
31	1 1/2	15	1'-7"	1 3/4	18	1'-6"
32	1	9	1'-3"	1 1/4	18	1'-6"

### 6 STEEL COLUMN SLAB PLATE SCHEDULE

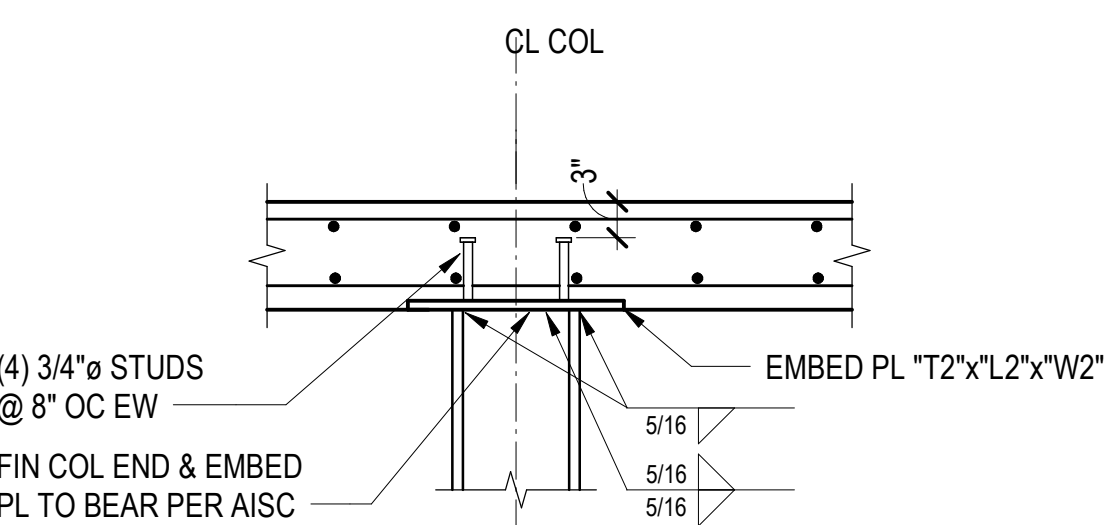
### 2 TYPICAL COLUMN BASE PLATE, TYPE 1



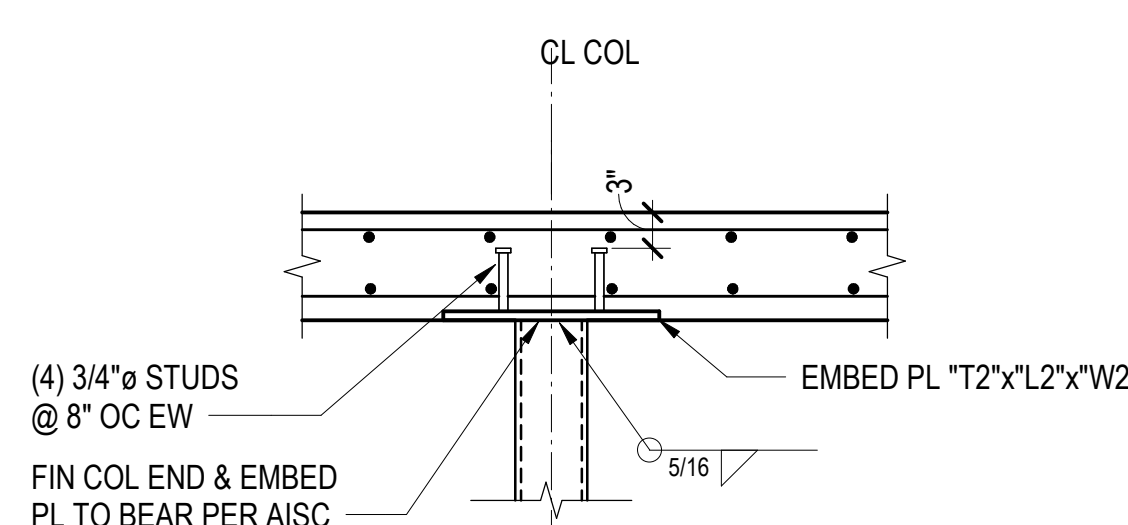
#### NOTES:

- DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE.

### 7 TYPICAL BASE PLATE, TYPE 6



#### CONNECTION AT WF COL

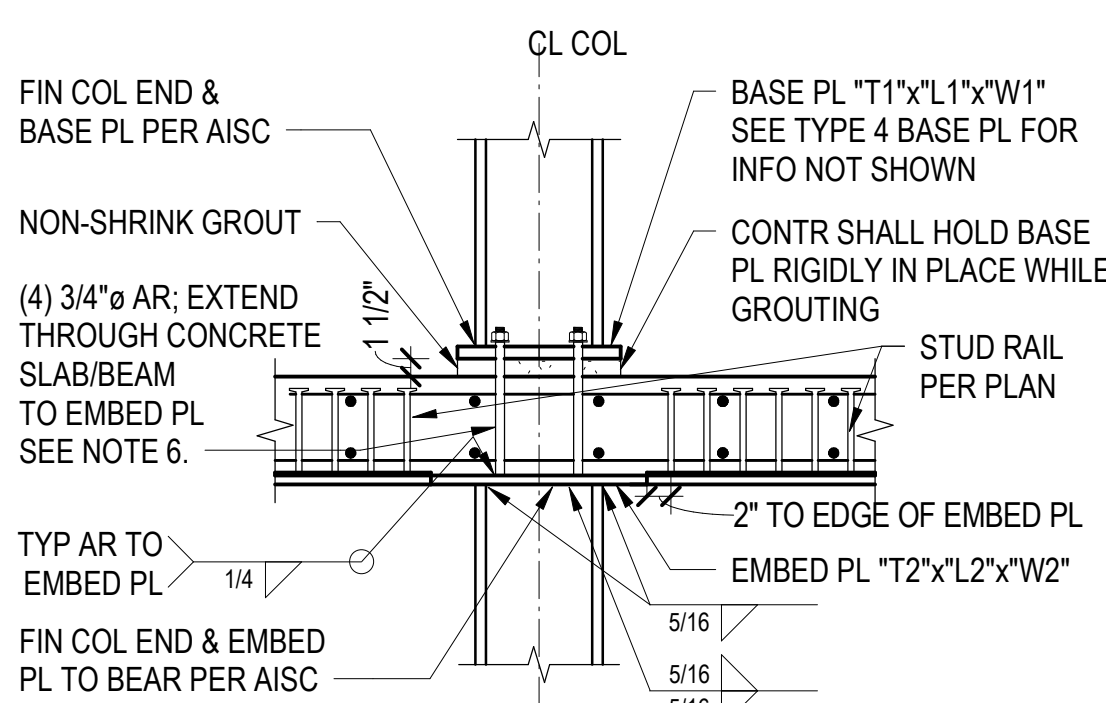


#### CONNECTION AT HSS COL

#### NOTES:

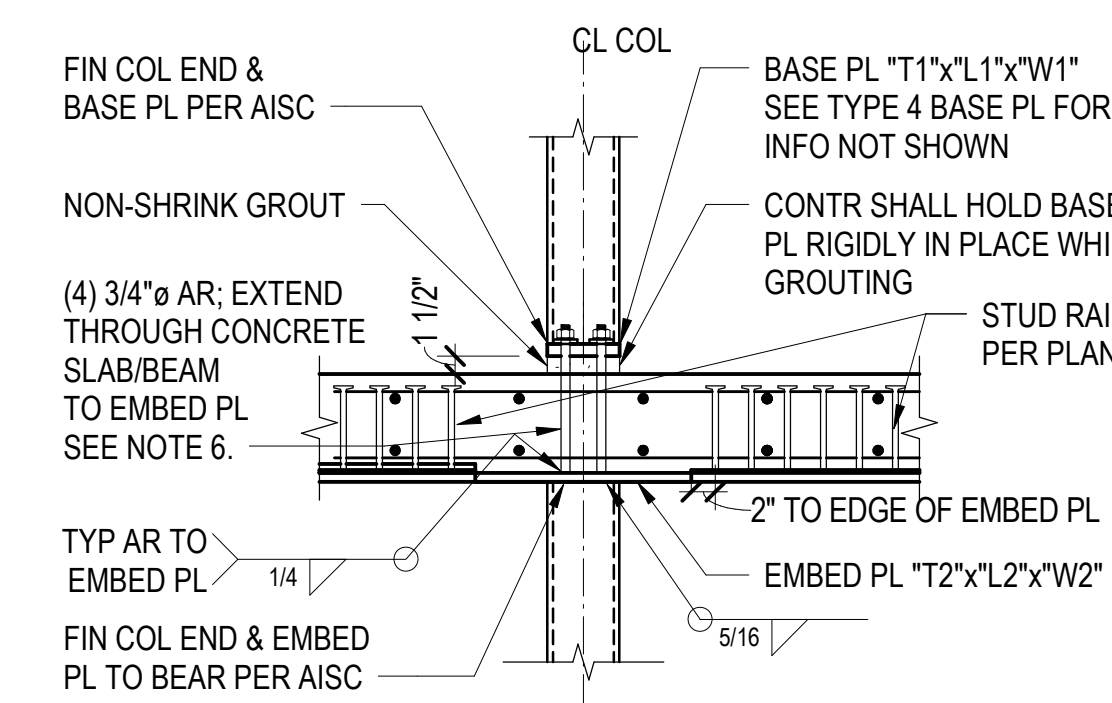
- SEE STEEL COLUMN SLAB PLATE SCHEDULE FOR PLATE DIMENSIONS.

### 11 TYPICAL TOP OF STEEL COLUMN SUPPORTING CONCRETE FRAMING



#### CONNECTION AT WF COL

- TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
- BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER "AISC MANUAL -TABLE 14-2", UNLESS NOTED OTHERWISE.
- SEE STEEL COLUMN SLAB PLATE SCHEDULE FOR PLATE DIMENSIONS.

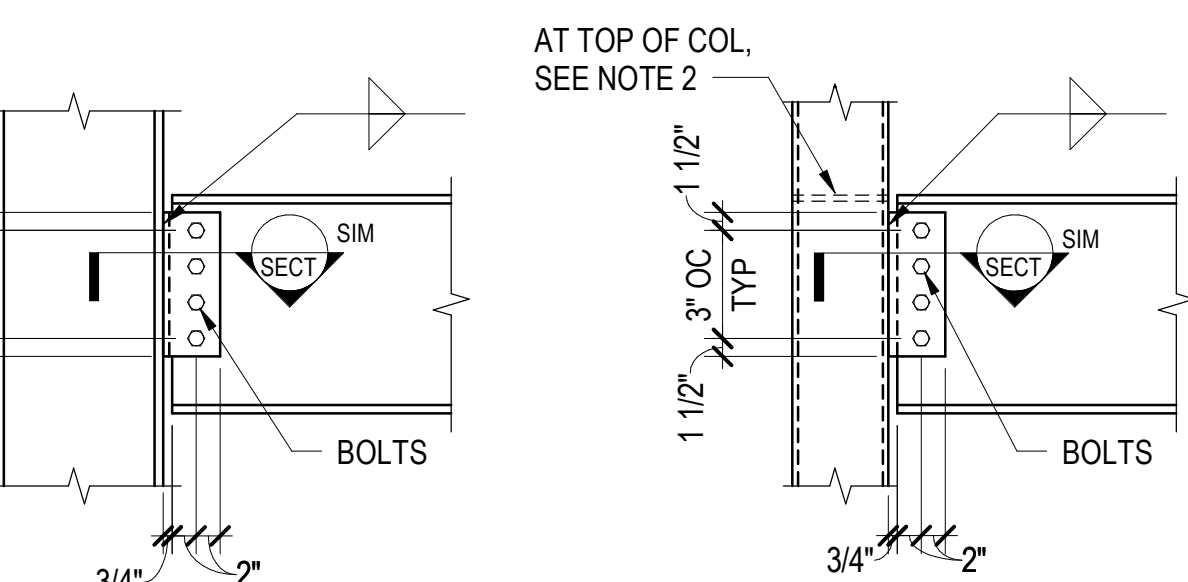


#### CONNECTION AT HSS COL

- WHERE COLUMN ABOVE IS WIDE FLANGE, ANCHOR ROD GAGE SHALL BE AS FOLLOWS:  
W10: 5 INCHES  
W12: 6 INCHES  
W14: 8 INCHES
- WHERE COLUMN ABOVE IS HSS AND WHERE EDGE OF BASE PLATE IS LESS THAN 9/16 INCH FROM THE FACE OF THE HSS, PROVIDE A PARTIAL PENETRATION GROOVE WELD OF THE HSS TO THE BASE PLATE IN LIEU OF FILLET WELD ON THAT FACE OF THE HSS. GROOVE WELD SIZE SHALL BE THE THICKNESS OF THE HSS WALL OR 5/16 INCH, WHICHEVER IS LESS.
- ANCHOR ROD TO BE SMOOTH SHANK THROUGH BEAM/SLAB THICKNESS.

### 17 TYPICAL STEEL COLUMN SUPPORTING CONCRETE FRAMING

### 8 TYPICAL COLUMN BASE PLATE, TYPE 7



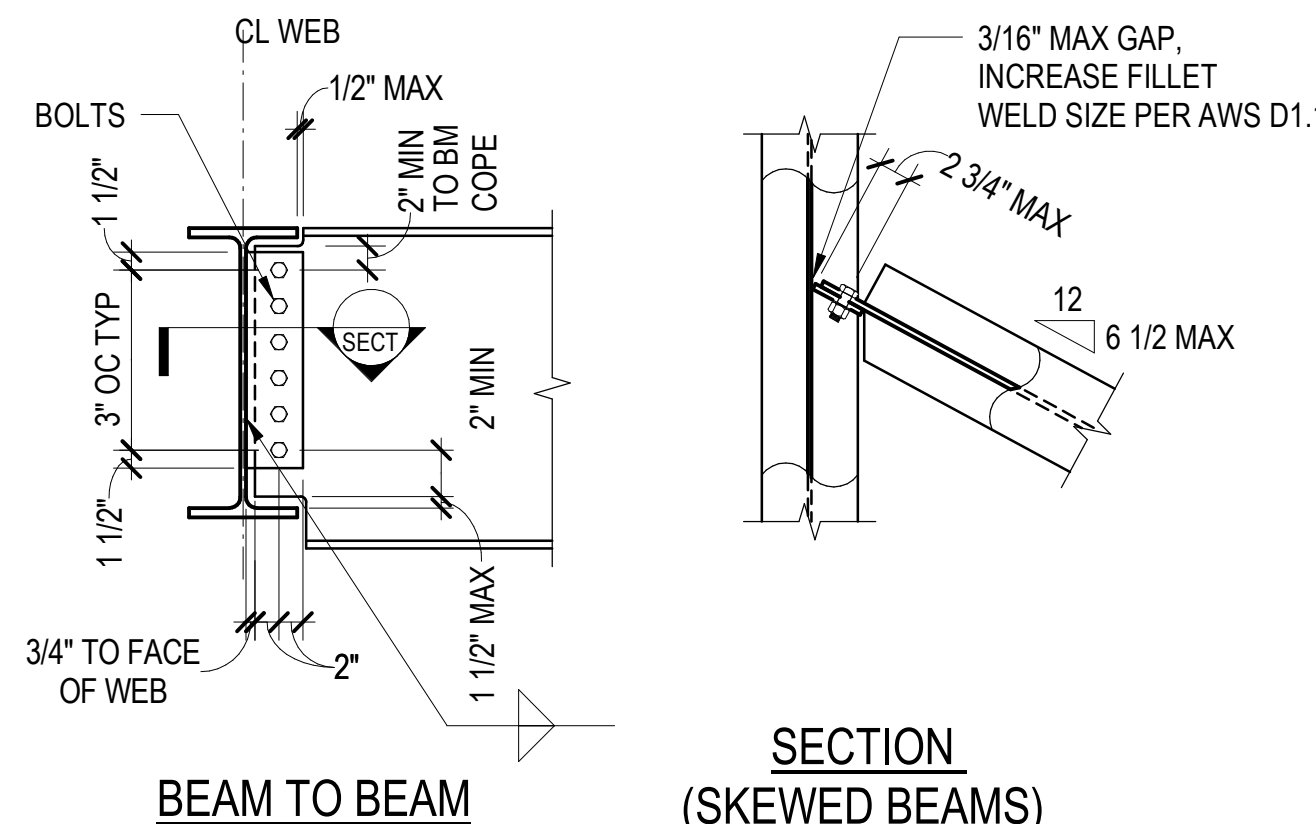
#### NOTES:

- ALIGN BASE PLATE LONGER SIDE WITH LONGER SIDE OF HSS COLUMN.

#### BEAM TO COLUMN FLANGE

#### BEAM TO HSS OR PIPE COLUMN

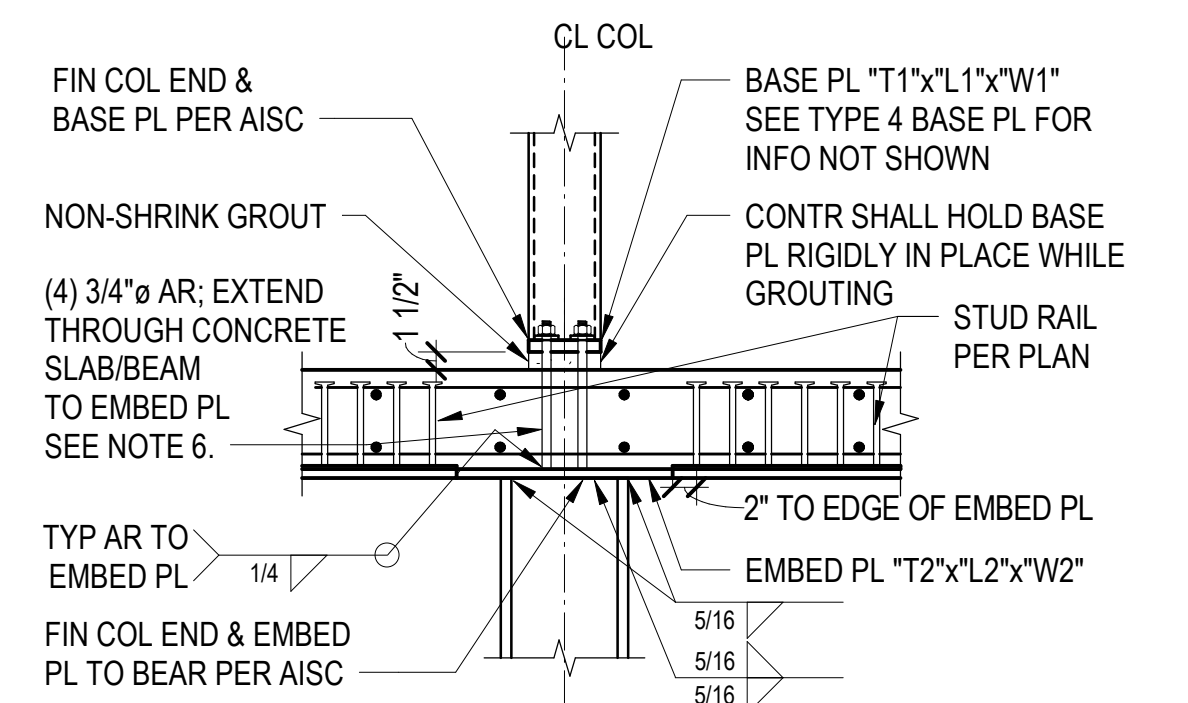
### 9 TYPICAL COLUMN BASE PLATE, TYPE 5



#### NOTES:

- SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
- AT TOP OF HSS OR PIPE COLUMN, PROVIDE 1/2 INCH CAP PLATE WITH 5/16 INCH FILLET WELD ALL AROUND. IF BEAM IS SHOWN RUNNING OVER TOP OF COLUMN ON PLAN, SEE "TYPICAL BASE PLATE, TYPE 6" DETAIL.

### 13 TYPICAL BEAM TO BEAM / BEAM TO COLUMN CONNECTION

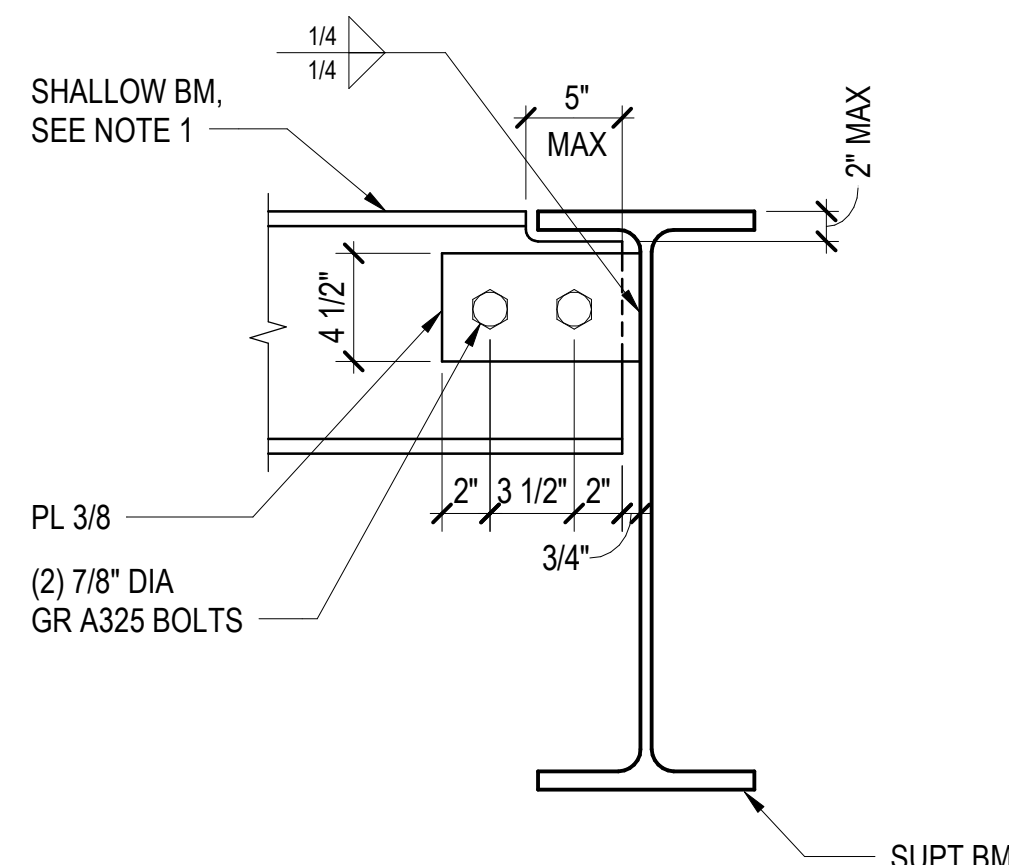


#### CONNECTION AT HSS COL ABOVE WITH WF COL BELOW

#### NOTES:

- THIS DETAIL SHALL BE USED ONLY FOR BEAMS UP TO 8 INCHES DEEP AND WEIGHING AT LEAST 8 LB/FT. SEE "TYPICAL BEAM TO BEAM / BEAM TO COLUMN CONNECTION" FOR DEEPER BEAMS.
- ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

### 19 TYPICAL SHALLOW BEAM CONNECTION

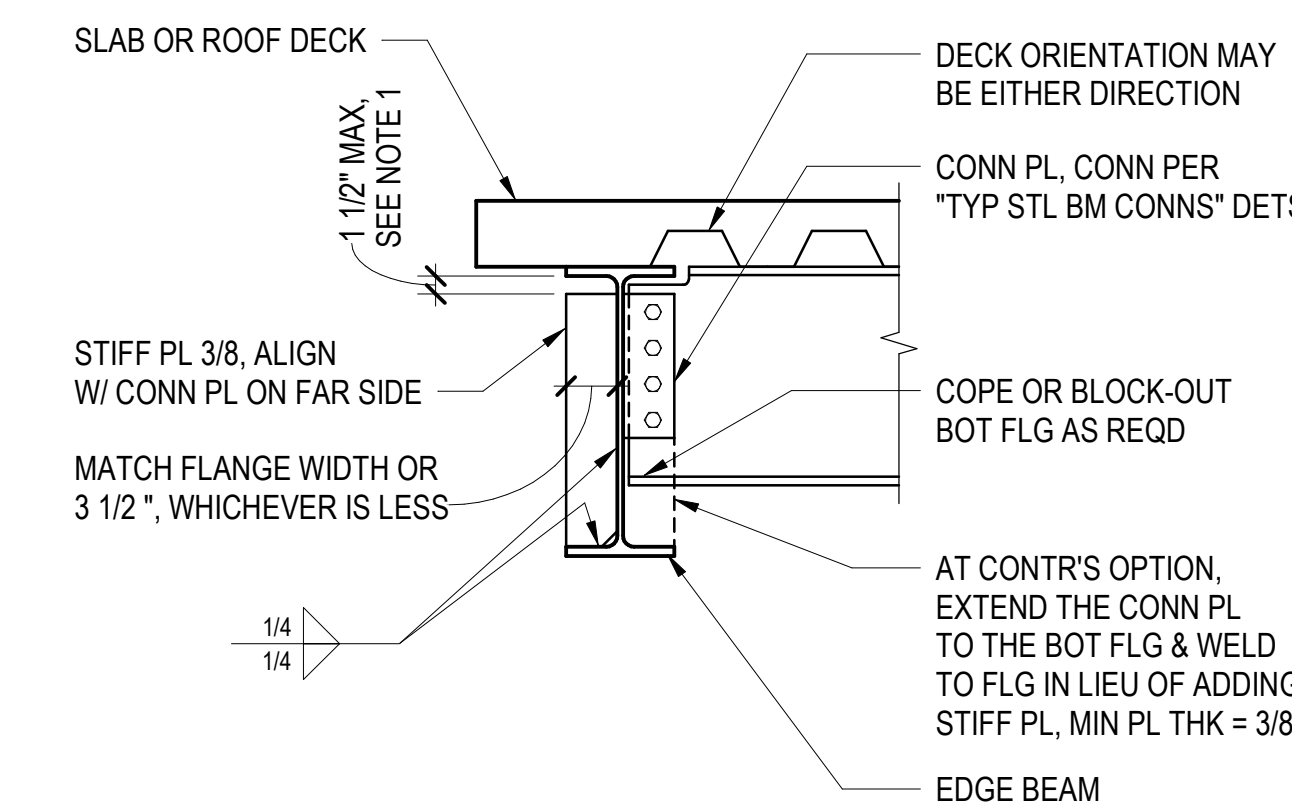


### 15 GENERAL NOTES FOR STEEL CONNECTIONS

TABLE A		
WIDE-FLANGE BEAM DEPTH	NUMBER OF BOLTS REQUIRED	MAXIMUM REACTION (KIPS)
W10	2	27
W12, W14	3	40
W16, W18	4	65
W21	5	91
W24	6	124
W27	7	150
W30 - W44	8	175

#### NOTES BELOW APPLY TO ALL TYPICAL CONNECTIONS UNLESS NOTED OTHERWISE:

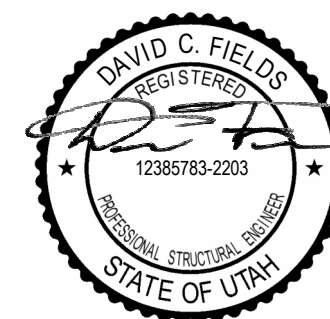
- SEE PLANS FOR BEAM SIZE. UNLESS NOTED OTHERWISE, PROVIDE THE NUMBER OF 7/8 INCH DIAMETER GRADE A325 BOLTS SHOWN IN "TABLE A" BASED ON THE BEAM DEPTH.
- SHEAR TAB PLATES SHALL BE GRADE 50 MATERIAL, AND BE 1/4 INCH THICK WITH 3/16 INCH WELD EACH SIDE FOR (2) BOLTS, 5/16 INCH THICK WITH 1/4 INCH WELD EACH SIDE FOR (3) BOLTS TO (5) BOLTS, AND 3/8 INCH THICK WITH 1/4 INCH WELD EACH SIDE FOR (6) BOLTS OR MORE.
- BEAMS AND SHEAR TAB PLATES SHALL HAVE STANDARD ROUND HOLES (STD) UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, HOLES IN SHEAR TAB PLATES MAY BE HORIZONTAL SHORT-SLOTTED HOLES.
- WHEN CONDITIONS VARY FROM THOSE SHOWN IN THE TYPICAL DETAIL, DESIGN CONNECTIONS ACCORDING TO THE AISC MANUAL OF STEEL CONSTRUCTION.



#### NOTES:

- AT LOCATIONS WHERE A CONCRETE SLAB DOES NOT EXIST AT EDGE BEAM, THE STIFFENER PLATE OR CONNECTION PLATE SHALL BE EXTENDED TO FULL DEPTH AND WELDED ON THREE SIDES.
- THIS DETAIL APPLIES AT ALL EDGE OF SLAB CONDITIONS.

### 20 TYPICAL STEEL EDGE BEAM STIFFENER



Reserved for permit stamp

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job no. 20052

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1 05/17/2024 IFC-2

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05/17/2024

TYPICAL STEEL DETAILS

S4.11