

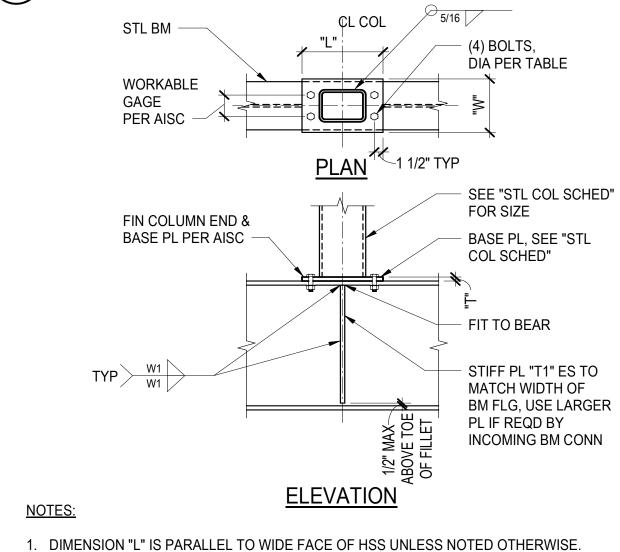
TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT

2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER "AISC MANUAL." TABLE 14-2", UNLESS NOTED OTHERWISE.

3. ANCHOR ROD GAGE SHALL BE AS FOLLOWS: W10: 5 INCHES W12: 6 INCHES W14: 8 INCHES

LOOSENING.

CONTRACTOR TO COORDINATE ANCHOR ROD GAGE WITH CONCRETE REINFORCING.



TYPE 6 STIFFENER PLATE TABLE				
COLUMN SIZE	BOLT SIZE (IN)	BOLT GRADE	T1 (IN)	W1 (IN)
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

HOLE AT CONTR'S OPT (4) 3/4" DIA AR W/ 1'-0" MIN EMBED SEE "STL COL NOTE 3 SCHED" FOR SIZE BASE PL, SEE "STL COL SCHED" NOTES:

- 1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
- 2. BASE PLATE HOLE DIAMETER AND WASHER DIAMETER SHALL BE SIZED PER "AISC MANUAL-TABLE 14-2" UNLESS NOTED OTHERWISE
- 3. DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE
- 4. 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.

TYPE 5 BASE PLATE SCHEDULE

10

TYPICAL COLUMN BASE PLATE, TYPE 4

COLUMN SIZE W1 (IN)

1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT

2. BASE PLATE HOLE DIAMETER AND WASHER DIAMETER SHALL BE SIZED PER "AISC

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

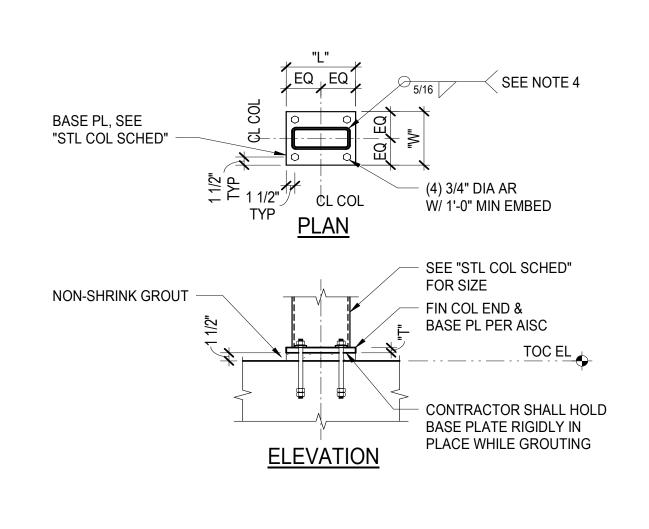
THICKNESS OF THE HSS WALL OR 5/16 INCH, WHICHEVER IS LESS.

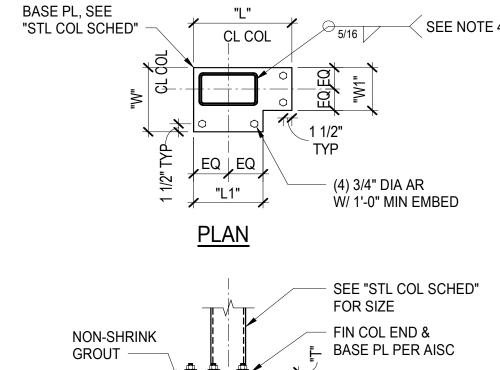
4. WHERE EDGE OF BASE PLATE IS LESS THAN 9/16 INCH FROM THE FACE OF THE HSS.

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

HSS8x8x1/2

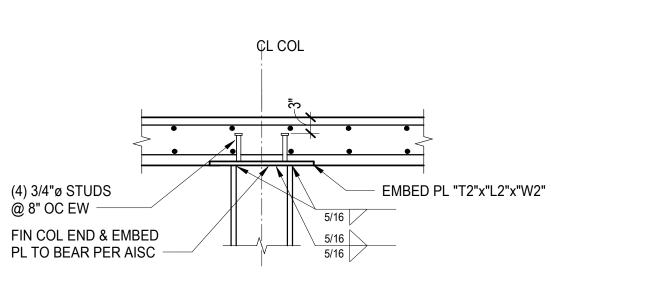
MANUAL-TABLE 14-2" UNLESS NOTED OTHERWISE.





TOC EL CONTRACTOR SHALL HOLD BASE PLATE RIGIDLY IN PLACE WHILE GROUTING **ELEVATION**

TYPICAL BASE PLATE, TYPE 6



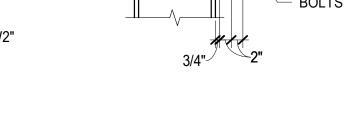


1. SEE STEEL COLUMN SLAB PLATE SCHEDULE FOR PLATE DIMENSIONS.

NOTES:

STEEL COLUMN SLAB PLATE SCHEDULE

EMBED PL "T2"x"L2"x"W2" (4) 3/4"ø STUDS @ 8" OC EW -FIN COL END & EMBED PL TO BEAR PER AISC CONNECTION AT HSS COL



NOTES:

BEAM TO COLUMN FLANGE

FIN COL END &

SLAB/BEAM

TO EMBED PL

SEE, NOT, E 6.

TYP AR TO

EMBED PL/

BASE PL PER AISC

NON-SHRINK GROUT

(4) 3/4"ø AR; EXTEND

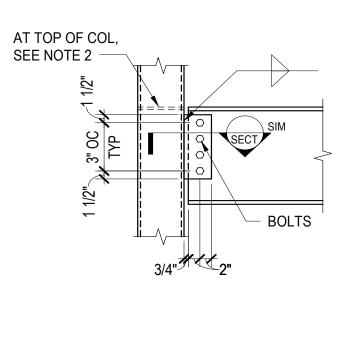
THROUGH CONCRETE

FIN COL END & EMBED

PL TO BEAR PER AISC

SEE "TYPICAL BASE PLATE, TYPE 6" DETAIL.

2" DIA MAX GROUT



BEAM TO HSS OR PIPE COLUMN

BASE PL "T1"x"L1"x"W1"

INFO NOT SHOWN

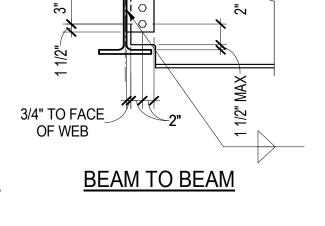
GROUTING

SEE TYPE 4 BASE PL FOR

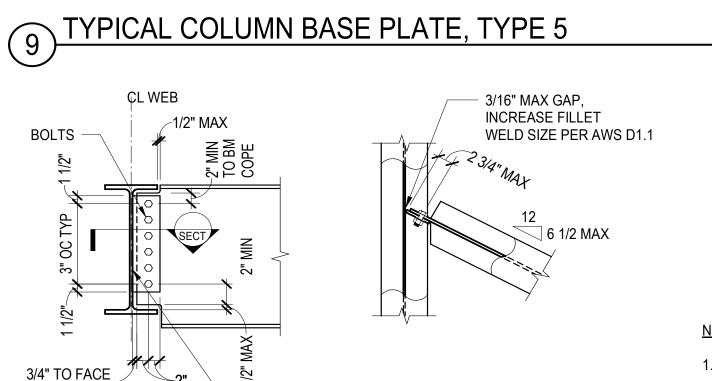
CONTR SHALL HOLD BASE

PL RIGIDLY IN PLACE WHILE

- EMBED PL "T2"x"L2"x"W2"



BOLTS



SECTION

(SKEWED BEAMS)

NOTES BELOW APPLY TO ALL TYPICAL CONNECTIONS UNLESS NOTED OTHERWISE

1. 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

TABLE A

NUMBER OF

BOLTS REQUIRED

WIDE-FLANGE

BEAM DEPTH

W12, W14

W16, W18

W30 - W44

W24

W27

MAXIMUM

REACTION (KIPS)

124

150

175

- 2. 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.
- 3. 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

TYPICAL BEAM TO BEAM / BEAM TO COLUMN CONNECTION

1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.

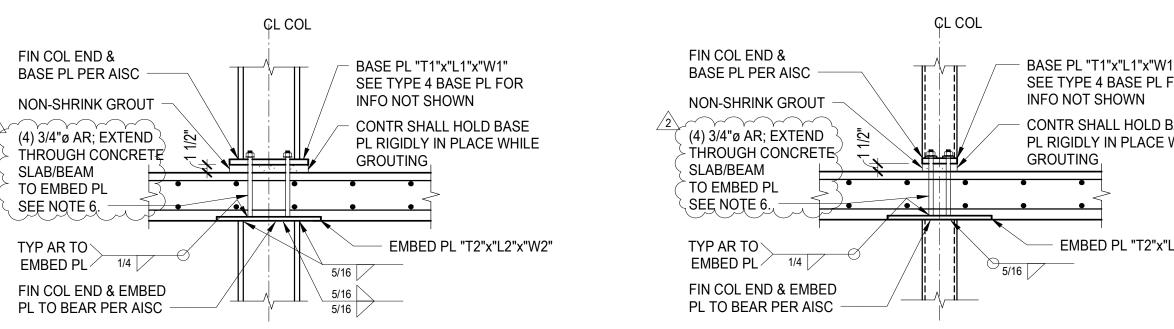
2. AT TOP OF HSS OR PIPE COLUMN, PROVIDE 1/2 INCH CAP PLATE WITH 5/16 INCH FILLET

WELD ALL AROUND. IF BEAM IS SHOWN RUNNING OVER TOP OF COLUMN ON PLAN,

ÇL COL

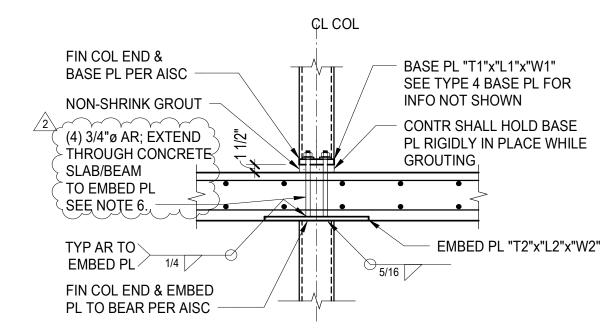
CONNECTION AT HSS COL

ABOVE WITH WF COL BELOW



CONNECTION AT WF COL NOTES:

- 1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING. 4. WHERE COLUMN ABOVE IS WIDE FLANGE, ANCHOR ROD GAGE SHALL BE AS FOLLOWS:
- 2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER "AISC MANUAL -TABLE 14-2", UNLESS NOTED OTHERWISE.
- 3. SEE STEEL COLUMN SLAB PLATE SCHEDULE FOR PLATE DIMENSIONS.

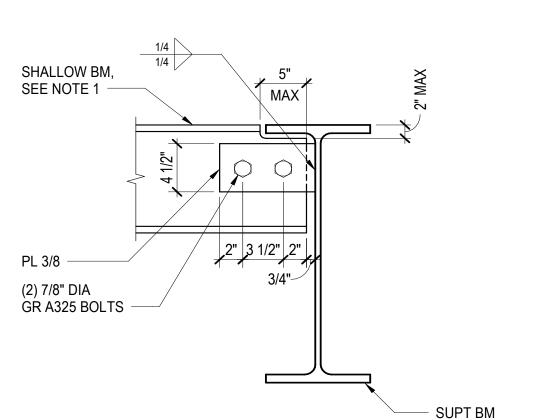


CONNECTION AT HSS COL

- W10: 5 INCHES W12: 6 INCHES W14: 8 INCHES
- 5. 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. 6. ANCHOR ROD TO BE SMOOTH SHANK THROUGH BEAM/SLAB THICKNESS.

TYPICAL STEEL COLUMN SUPPORTING CONCRETE FRAMING

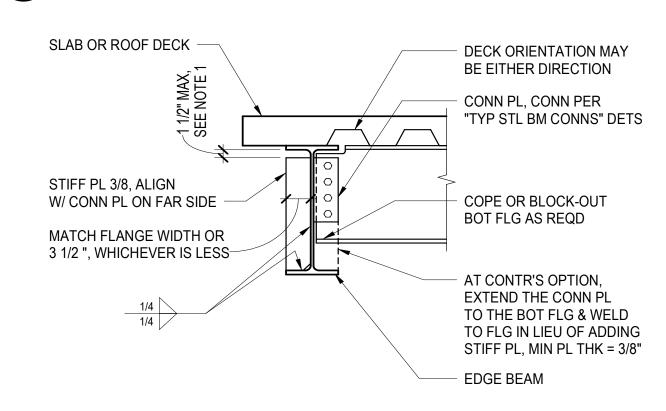
TYPICAL TOP OF STEEL COLUMN SUPPORTING CONCRETE FRAMING



NOTES:

- 1. 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.
- 2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.
- (19) TYPICAL SHALLOW BEAM CONNECTION

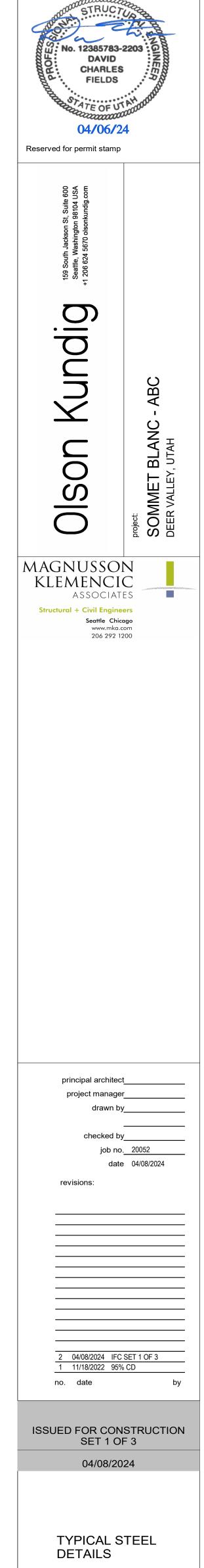
	GENERAL NOTES FOR STEEL CONNECTIONS
4.	WHEN CONDITIONS VARY FROM THOSE SHOWN IN THE TYPICAL DETAIL, DESIGN CONNECTIONS ACCORDING TO THE AISC MANUAL OF STEEL CONSTRUCTION.
	TEATES WAT BE HONZONTAL SHORT-SECTTED HOLLS.



NOTES:

- 1. 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.
- 2. THIS DETAIL APPLIES AT ALL EDGE OF SLAB CONDITIONS.





S4.11