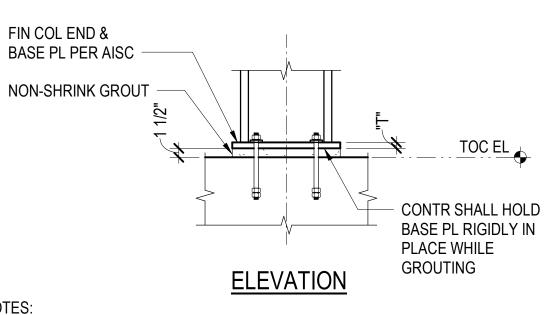


1. WHERE NOTE APPLIES, BOLT TO BE CENTERED IN SLOTTED HOLE IN ANGLE. NUTS TO BE FINGER TIGHT. DAMAGE THREADS OF BOLT TO PREVENT BACK-OFF OF NUT.



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

CONTRACTOR TO COORDINATE ANCHOR ROD GAGE WITH CONCRETE REINFORCING.

DIA PER TABLE

SEE "STL COL SCHED"

BASE PL, SEE "STL

FOR SIZE

COL SCHED"

FIT TO BEAR

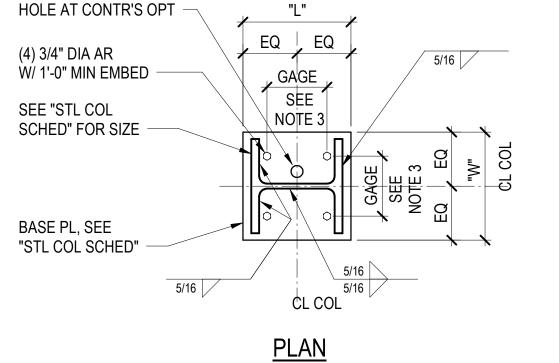
STIFF PL3/8 ES TO

MATCH WIDTH OF

BM FLG, USE LARGER PL IF REQD BY

INCOMING BM CONN

TYPICAL COLUMN BASE PLATE, TYPE 1



HSS COL PER PLAN

BASE PL "T"x"W"x"L",

2" DIA MAX GROUT

FIN COL END &

BASE PL PER AISC

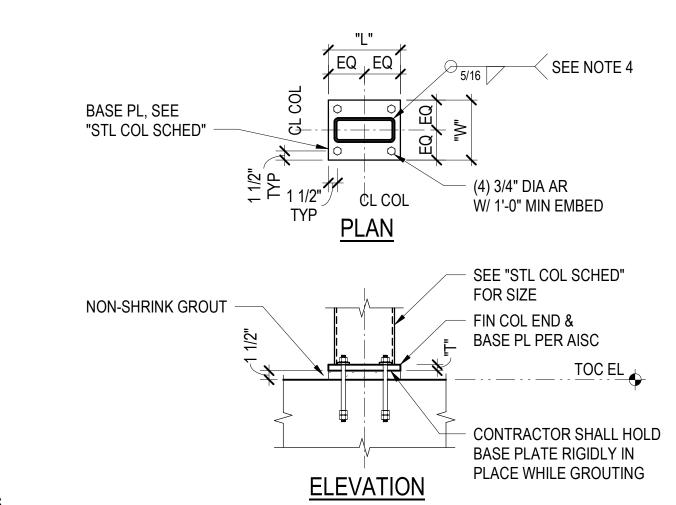
(4) 3/4" DIA STUDS

W/ 6" MIN EMBED

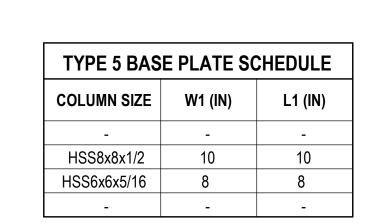
NOTES:

NOTES:

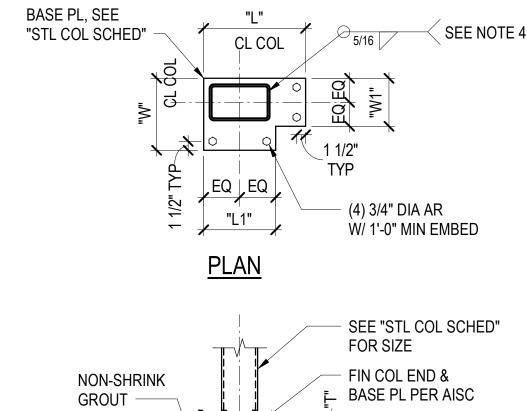
- 1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
- 2. BASE PLATE HOLE DIAMETER AND WASHER DIAMETER SHALL BE SIZED PER "AISC MANUAL-TABLE 14-2" UNLESS NOTED OTHERWISE
- 3. DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE.
- 4. WHERE EDGE OF BASE PLATE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

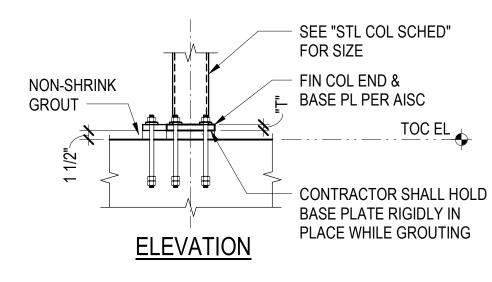


TYPICAL COLUMN BASE PLATE, TYPE 4



- 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. 9 TYPICAL COLUMN BASE PLATE, TYPE 5





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

CONNECTION AT WF COL

15 1'-7" 1 3/4 18 1'-6"

STEEL COLUMN SLAB PLATE SCHEDULE



1 1/2

CL COL EMBED PL "T2"x"L2"x"W2" (4) 3/4"ø STUDS @ 8" OC EW 5/16 FIN COL END & EMBED PL TO BEAR PER AISC

CONNECTION AT HSS COL

AT TOP OF COL, SEE NOTE 2 - BOLTS

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

, TYPICAL COLUMN BASE PLATE, TYPE 7

BEAM TO COLUMN FLANGE

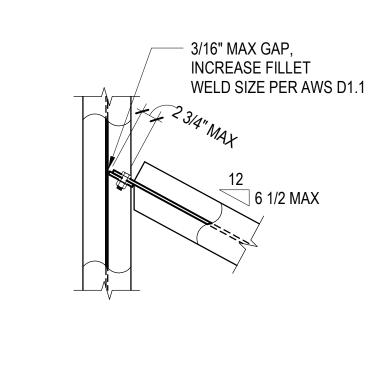
SEE "TYPICAL BASE PLATE, TYPE 6" DETAIL.

BOLTS 3/4" TO FACE

BEAM TO HSS OR PIPE COLUMN

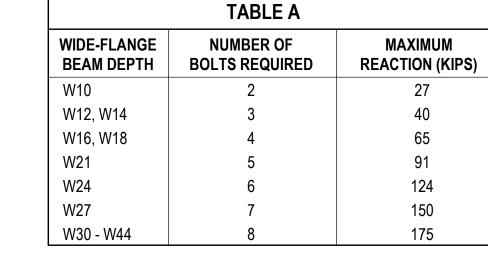
OF WEB

BOLTS



SECTION

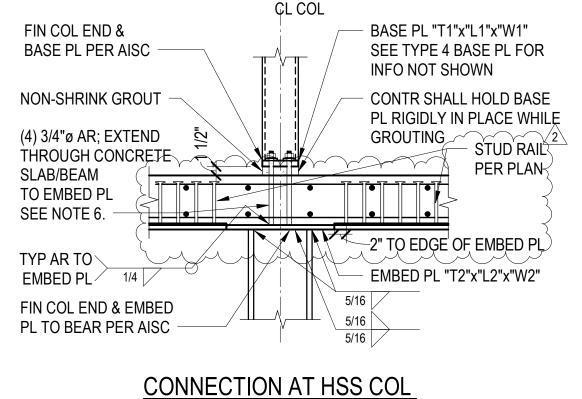
BEAM TO BEAM (SKEWED BEAMS)



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
- 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.
- 4. WHEN CONDITIONS VARY FROM THOSE SHOWN IN THE TYPICAL DETAIL, DESIGN CONNECTIONS ACCORDING TO THE AISC MANUAL OF STEEL CONSTRUCTION.

TYPICAL BEAM TO BEAM / BEAM TO COLUMN CONNECTION

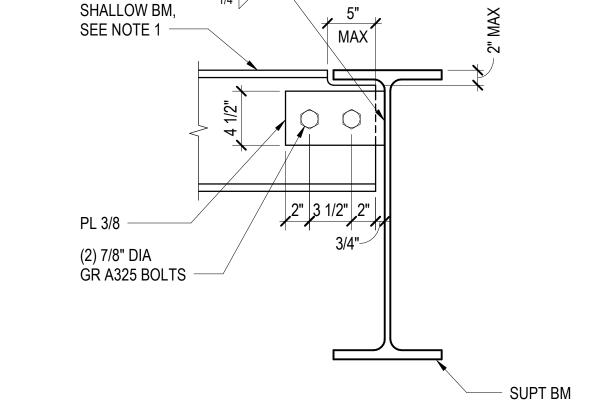


1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION

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,

ABOVE WITH WF COL BELOW



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.
- ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

(19) TYPICAL SHALLOW BEAM CONNECTION

NOTES:

SLAB OR ROOF DECK

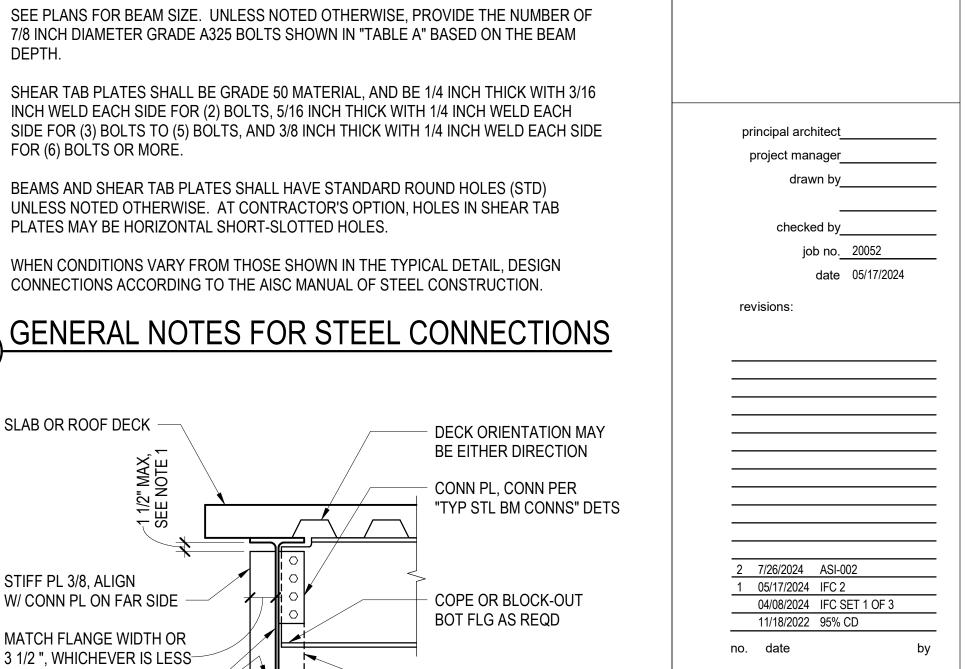
STIFF PL 3/8, ALIGN

W/ CONN PL ON FAR SIDE

MATCH FLANGE WIDTH OR

3 1/2 ", WHICHEVER IS LESS-

- 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.
- TYPICAL STEEL EDGE BEAM STIFFENER



DECK ORIENTATION MAY

BE EITHER DIRECTION

CONN PL, CONN PER

COPE OR BLOCK-OUT

AT CONTR'S OPTION,

EXTEND THE CONN PL

EDGE BEAM

TO THE BOT FLG & WELD

TO FLG IN LIEU OF ADDING STIFF PL, MIN PL THK = 3/8"

BOT FLG AS REQD

Reserved for permit stamp

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IFC SET 2 OF 3 05/17/2024

TYPICAL STEEL

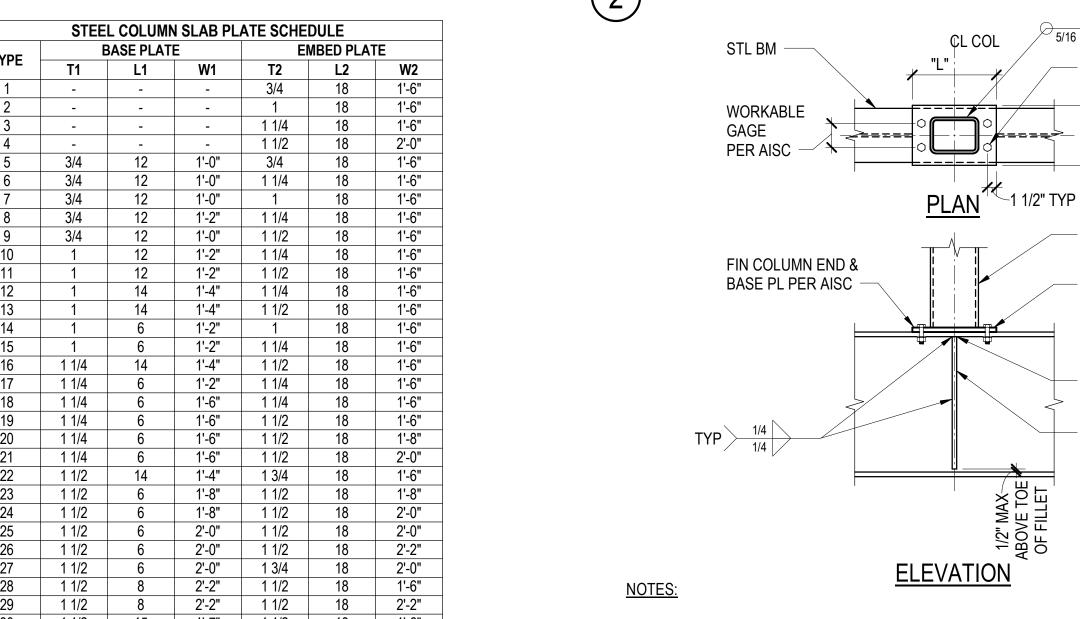
DETAILS

S4.11

NON-SHRINK GROUT < (3) SIDES LOOSENING.

- 2. PROVIDE U-BAR REINFORCEMENT PERPENDICULAR TO SLAB EDGE WHERE EMBED IS LOCATED 6" OR LESS FROM ADJACENT OPENING OR SLAB EDGE.

TYPICAL HSS POST TOP SLIP CONNECTION

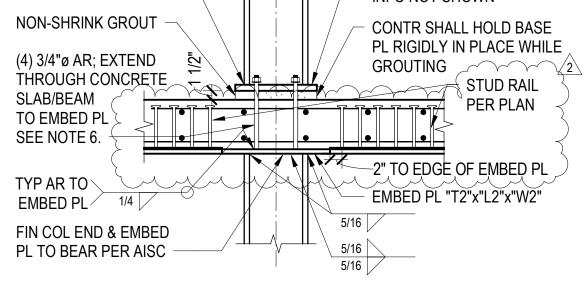


1. DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE.

TYPICAL BASE PLATE, TYPE 6

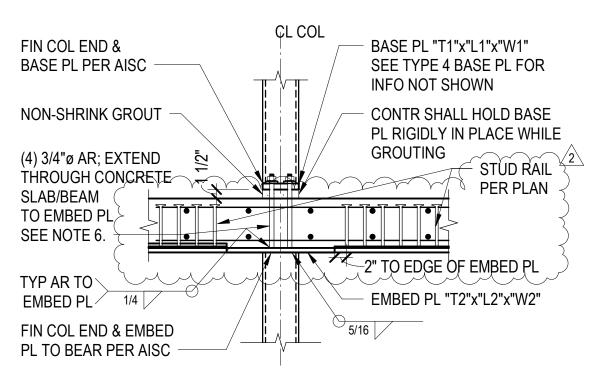
1. SEE STEEL COLUMN SLAB PLATE SCHEDULE FOR PLATE DIMENSIONS. YPICAL TOP OF STEEL COLUMN SUPPORTING CONCRETE FRAMING

ÇL COL BASE PL "T1"x"L1"x"W1" FIN COL END & SEE TYPE 4 BASE PL FOR BASE PL PER AISC INFO NOT SHOWN **NON-SHRINK GROUT**



CONNECTION AT WF COL NOTES:

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

- 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
- 6. ANCHOR ROD TO BE SMOOTH SHANK THROUGH BEAM/SLAB THICKNESS.