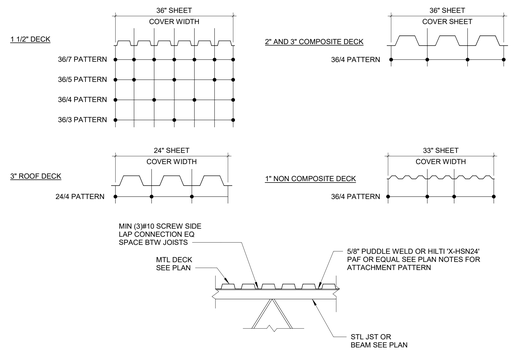
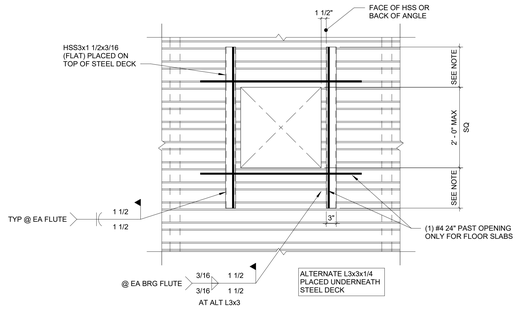
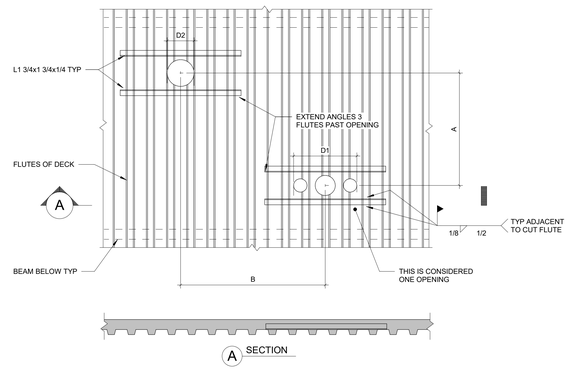


1 TYPICAL FLOOR AND ROOF DECK ATTACHMENT
SCALE: NONE



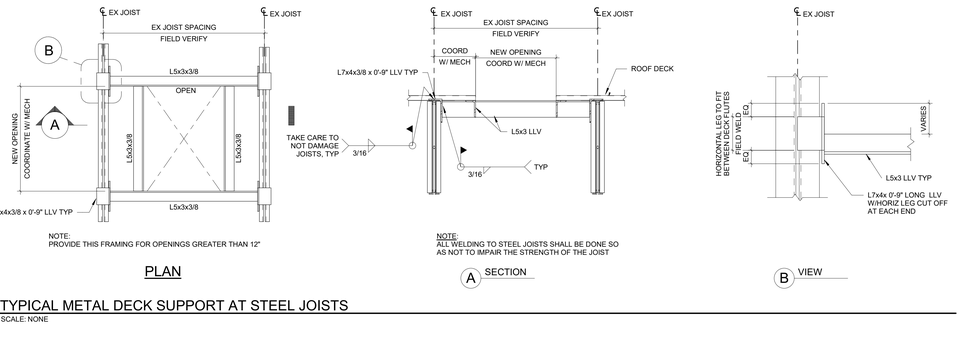
NOTE:
1. EXTEND TUBE OR ANGLE PAST EDGE OF OPENING AS REQUIRED TO PROVIDE THE MINIMUM NUMBER OF WELDS PAST THE EDGE AS FOLLOWS:
   A. 3" DECK: 2 WELDS
   B. 1 1/2" AND 2" DECK: 3 WELDS

2 TYPICAL FLOOR AND ROOF DECK OPENINGS UP TO 2 FT SQUARE
SCALE: NONE

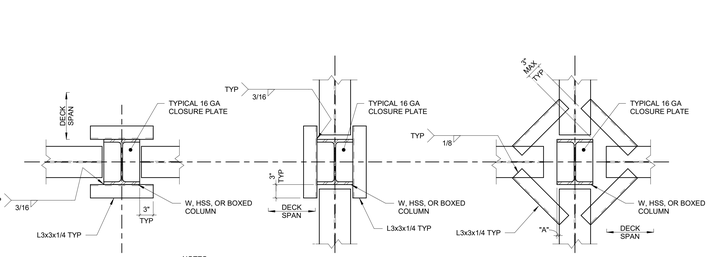


NOTES:
1. DO NOT CUT MORE THAN 2 ADJACENT WEBS FOR 2"/3" DECK AND 3 ADJACENT WEBS FOR 1 1/2" DECK.
2. HOLES LESS THAN 6" IN DIAMETER AND CUTTING NOT MORE THAN 1 WEB NEED NO REINFORCING.
3. ANGLES SHALL BE PLACED ON TOP OF DECK.
4. IF DIMENSION "A" IS GREATER THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER THEN THERE IS NO RESTRICTION ON DIMENSION "B".
5. IF DIMENSION "B" IS GREATER THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER THEN THERE IS NO RESTRICTION ON DIMENSION "A".
6. IF DIMENSIONS "A" AND "B" ARE LESS THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER OPENING.

3 TYPICAL METAL DECK SLEEVE DETAIL
SCALE: NONE

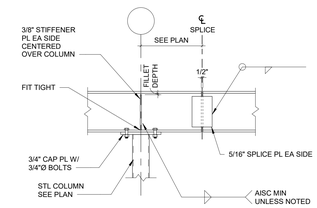


4 TYPICAL METAL DECK SUPPORT AT STEEL JOISTS
SCALE: NONE



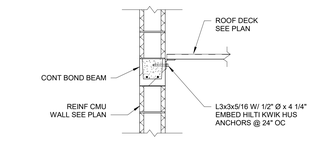
NOTES:
1. DECK SUPPORT ANGLES AND CLOSURE PLATE TO BE SUPPLIED BY DECK SUPPLIER
2. DECK SUPPORT ANGLE MAY BE ELIMINATED IF "A" ≤ 3", "A" IS PERPENDICULAR TO DECK SPAN

5 TYPICAL METAL DECK SUPPORT AT STEEL COLUMNS
SCALE: NONE

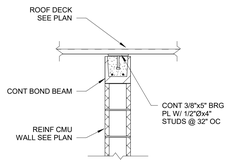


NOTE:
1. DESIGN CONNECTION FOR FULL CAPACITY OF SUPPORTED BEAM

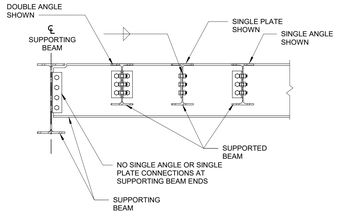
6 TYPICAL CANTILEVERED BEAM SPLICE
SCALE: 3/4" = 1'-0"



7 FLOOR AND ROOF DECK BEARING AT WALL
SCALE: NONE

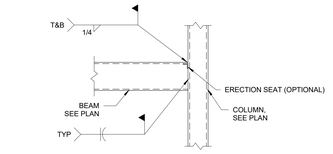


8 FLOOR AND ROOF DECK BEARING AT WALL
SCALE: NONE



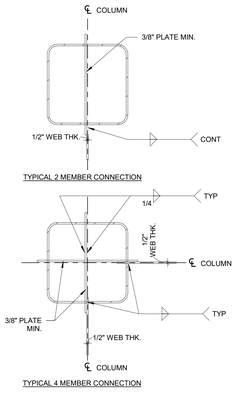
NOTES:
1. SUPPORTED BEAMS PRIMARILY SUPPORT DISTRIBUTED LOADS FROM SLAB OR DECKING.
2. SUPPORTING BEAMS SUPPORT SIGNIFICANT POINT LOADS FROM ONE OR MORE SUPPORTED BEAMS OR FROM COLUMNS BEING TRANSFERRED. SUPPORTING BEAMS MAY BE SUPPORTED BY COLUMNS OR BY OTHER SUPPORTING BEAMS.
3. FOR AISC SIMPLE SHEAR CONNECTIONS AT SUPPORTED BEAMS END, DOUBLE ANGLES AND SINGLE PLATE MAY BE USED UNO.
4. WELDED/BOLTED OR BOLTED/BOLTED CONNECTIONS PER AISC ARE PERMITTED.

9 TYPICAL BEAM TO BEAM SHEAR CONNECTION
SCALE: 3/4" = 1'-0"

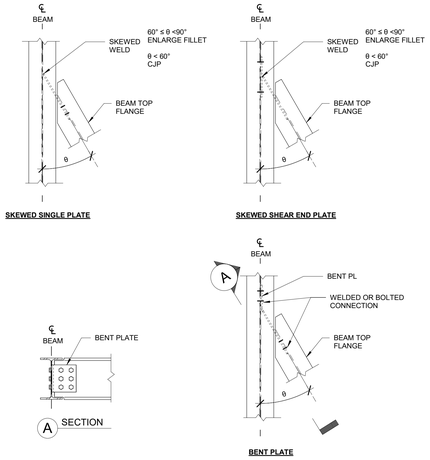


NOTE:
1. IF HSS BEAM IS WIDER THAN HSS COL, ADD 5/16" END PL TO HSS BEAM AND COMPLETE CONN AS SHOWN.
2. IF HSS BEAM IS SUFFICIENTLY NARROWER THAN HSS COLUMN, PROVIDE FILLET WELD IN LIEU OF FLARE BEVEL WELDS

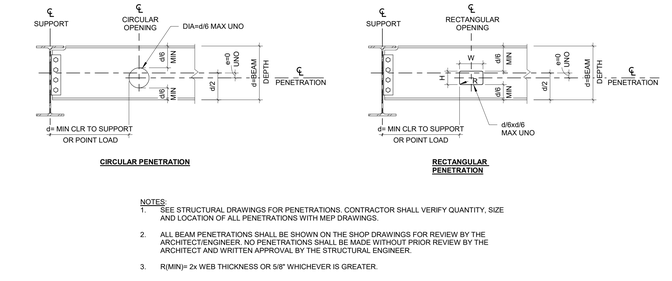
10 TYPICAL HSS TO HSS CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



11 TYPICAL BEAM CONN AT HSS COLUMN
SCALE: 3/4" = 1'-0"



12 TYPICAL SKEWED BEAM SHEAR CONNECTION
SCALE: 3/4" = 1'-0"



NOTES:
1. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. CONTRACTOR SHALL VERIFY QUANTITY, SIZE AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS.
2. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR REVIEW BY THE ARCHITECT AND WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
3. R(MIN)= 2x WEB THICKNESS OR 5/8" WHICHEVER IS GREATER.

13 TYPICAL UNREINFORCED BEAM PENETRATION
SCALE: 3/4" = 1'-0"

PROJECT NO 2203-1

ARCHITECTURAL VISION GROUP, LTD
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PK-3
250 29TH STREET NW, MASSILLON, OHIO 44646
MASSILLON CITY SCHOOL DISTRICT MASSILLON, OHIO

MARK	DATE	DESCRIPTION
	7.12.23	100% BID PERMIT SET

PROJECT NO	2203-1
DRAWN BY	OEC
CHECKED BY	OEC
DATE	

TYPICAL STEEL DETAILS

SCALE: As indicated

SHEET NO
S-331