

BASE PLATE DETAILS

REFER PLAN

X-BRIDGING-REFER
PLAN FOR SIZE AND SPACING

WELDED X-BRIDGING

STEEL JOIST-

REFER PLAN

SCALE: NONE

REFER PLAN

NOTE: ROOF DECK NOT

SHOWN FOR CLARITY

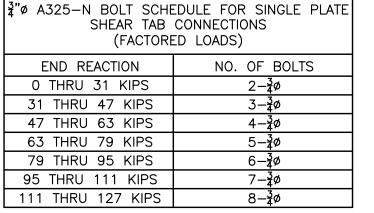
TOP & BTM. BRIDGING

REFER PLAN FOR SIZE-

WELDED TOP AND BOTTOM CHORD BRIDGING

TYP. BRIDGING DETAILS AT JOISTS

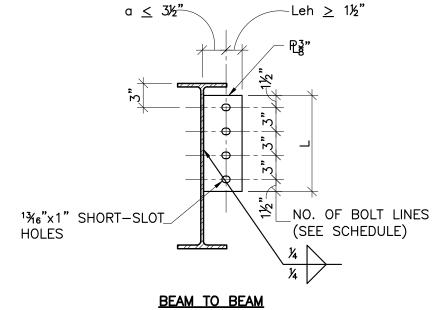
AND SPACING

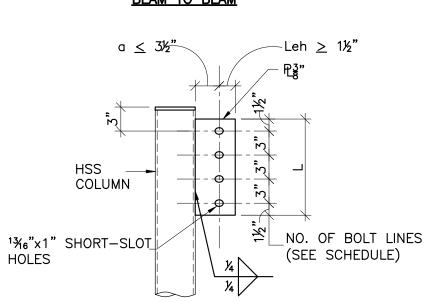


- 1. VALUES SHOWN ARE APPLICABLE FOR SINGLE PLATE SHEAR TAB CONNECTIONS
- 2. SEE PLAN FOR END REACTIONS
- 3. L = PLATE LENGTH \geq T/2 OF CONNECTED
- 4. AT HSS OR PIPE COLUMNS, A THROUGH-PLATE WITH EQUAL WELD ON THE BACK SIDE OF THE COLUMN IS REQUIRED UNDER EITHER OF THE FOLLOWING CIRCUMSTANCES:
- A. FOR SQUARE OR RECTANGULAR HSS:
- WHEN $\frac{B-2.79t}{0.93t} > 35.1$
- B. FOR ROUND HSS OR PIPE:

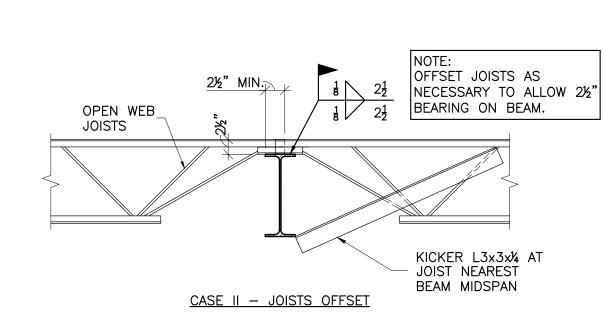
WHEN $\frac{D}{t} > \frac{3.190}{Fv}$

- B = NOMINAL COLUMN WIDTH ACROSS THE COLUMN FACE WITH THE SINGLE
- PLATE CONNECTION, IN. D = OUTSIDE DIAMETER OF ROUND HSS OR PIPE, IN.
- = NOMINAL THICKNESS OF COLUMN, IN. Fy = YIELD STRENGTH OF COLUMN, KSI





BEAM TO HSS COLUMN



KICKER ANGLE AT BOTTOM FLANGE

CASE I - JOISTS ALIGNED

OPEN WEB

JOISTS



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KFC ENGINEERING

KICKER L3x3x1/4 AT

JOIST NEAREST

BEAM MIDSPAN

STRUCTURAL

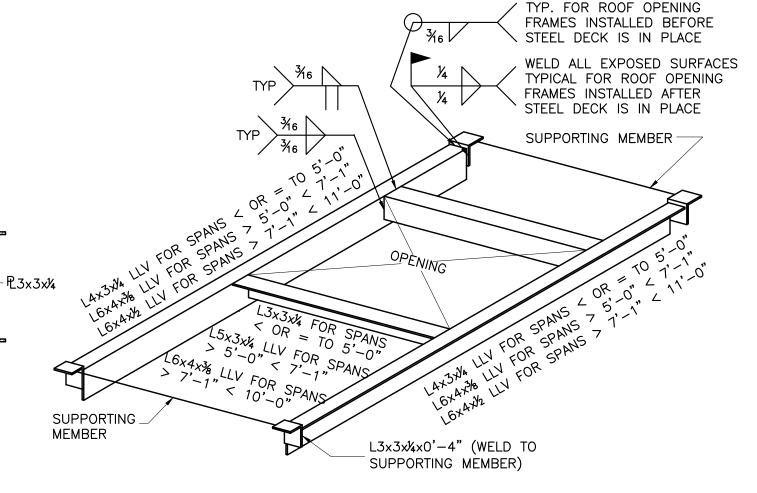
SALAS O'BRIEN

MECHANICAL / ELECTRICAL

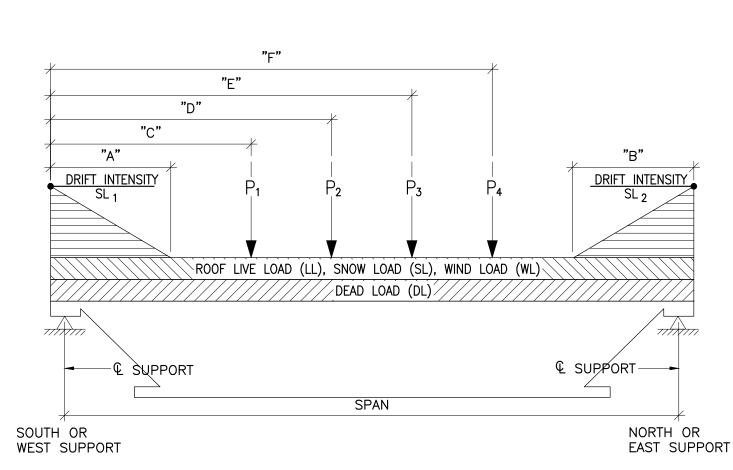


SINGLE PLATE SHEAR TAB CONNECTIONS (LRFD)

SCALE: NONE







MOORE PUBLIC SCHOOLS **BOARD OF EDUCATION**

MOORE, OKLAHOMA

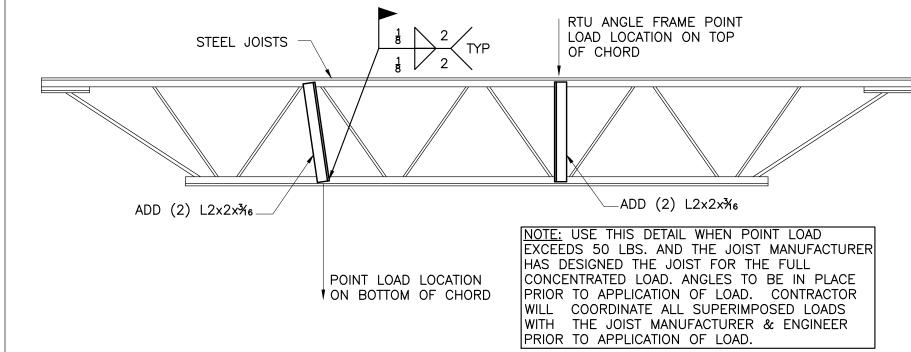
SPECIAL JOIST ELEVATION

MOORE Public Schools

CLASSROOM ADDITION

JUNIOR HIGH SCHOOL

HIGHLAND EAST



TYP. ISOLATION JOINT DETAILS

REFER PLAN

L3x3x/4x0'-6" TYP.

X-BRIDGING, (BOLTED)

-REFER PLAN FOR SIZÉ:

STEEL JOIST-

REFER PLAN

AND SPACING

BOLTED X-BRIDGING

*WELD AS REQUIRED BY JOIST MANUFACTURER

TYPICAL TOP \

AND BOTTOM

AT EA. JOIST /

SCALE: NONE

REFER PLAN

STEEL BEAM-

REFER PLAN

TOP AND BOTTOM

BRACING DETAIL FOR STEEL JOISTS W/ POINT LOADS

JOIST DESIGNATION	SPAN, FT.	UNIFORMLY DISTRIBUTED LOADS, PLF						TRAPEZOIDAL LOADS, PLF				CONCENTRATED LIVE LOADS, LBS								
		DL	LL	SL (N.D.)	SL (W.D.)	WL (IN)	WL (OUT)	SL1	"A"	SL2	"B"	P1	"C"	P2	"D"	Р3	"E"	P4	"F"	REMARKS
18K4-SP1	28' - 0"	115.4	115.4	69.2	57.7	57.7	188.1			225.0	10' - 3"	75	1' - 0"	75	4' - 6"					DOUBLE PITCHED
18K4-SP2	28' - 0"	115.4	115.4	69.2	57.7	57.7	188.1			225.0	10' - 3"	150	1' - 0"	150	4' - 6"					DOUBLE PITCHED
10K1-SP3	14' - 0"	118.0	118.0	70.8	59.0	59.0	192.3					150	7' - 0"							
10K1-SP4	14' - 0"	118.0	118.0	70.8	59.0	59.0	192.3					300	7' - 0"							
16K4-SP5	28' - 0"	119.0	119.0	71.4	59.5	59.5	194.0					75	23' - 3"	75	27' - 0"					
16K4-SP6	28' - 0"	119.0	119.0	71.4	59.5	59.5	194.0					150	23' - 3"	150	27' - 0"					
16K4-SP7	28' - 0"	116.6	116.6	70.0	58.3	58.3	190.1					75	2' - 3"							
10K1-SP8	14' - 0"	116.6	116.6	70.0	58.3	58.3	190.1					75	5' - 6"	75	9' - 0"	75	12' - 6"			

1. SPANS SHOWN ARE APPROXIMATE. MANUFACTURER SHALL DETERMINE EXACT DESIGN SPANS.

REFER PLAN

STEEL BEAM-

REFER PLAN

- 2. REFER TO THE SPECIAL JOIST DIAGRAM FOR CLARIFICATION OF ALL NOMENCLATURE.
- 3. SL (N.D.) IS THE UNIFORM BALANCED SNOW LOAD TO BE CONSIDERED WITHOUT DRIFT LOADS.
- 4. SL (W.D.) IS THE UNIFORM SNOW LOAD WITH DRIFT INCLUDED.
- 6. JOISTS SHALL BE DESIGNED FOR ALL LOAD COMBINATIONS SPECIFIED IN THE GOVERNING BUILDING CODE. REFER GENERAL NOTES FOR THE APPLICABLE CODE



S105

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sheet no:

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