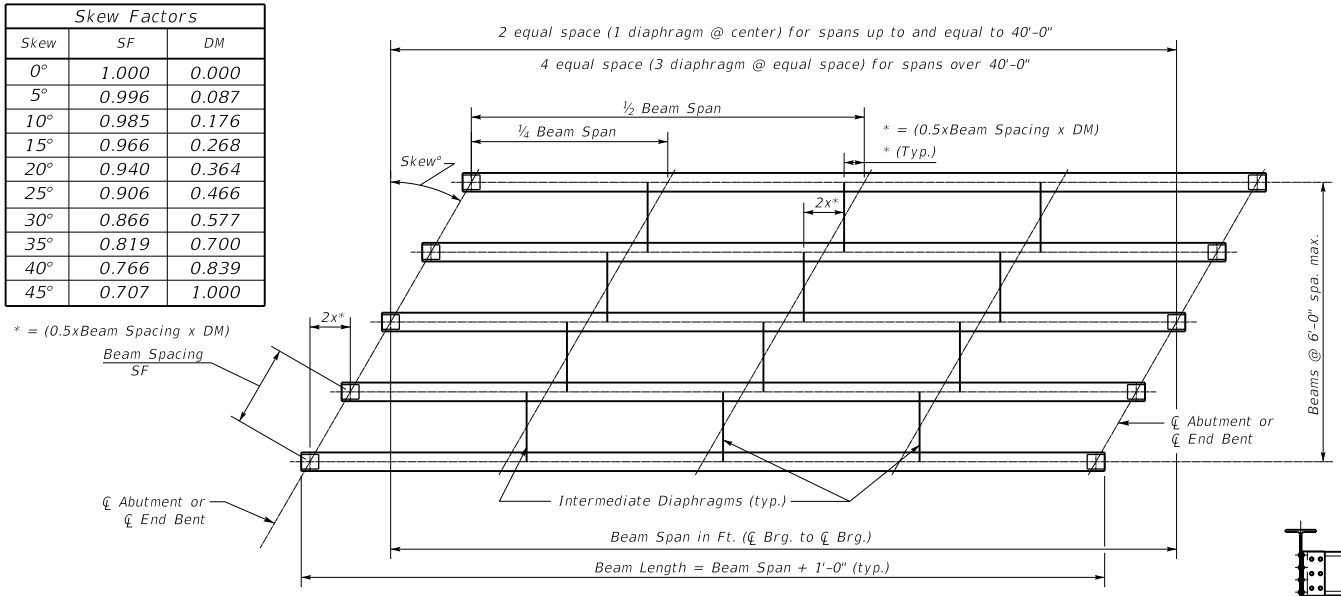
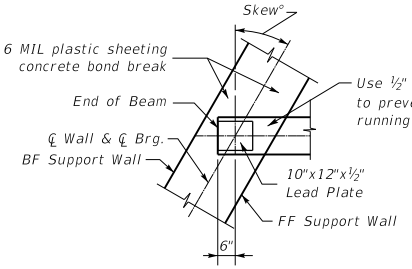
Skew Factors		
Skew	SF	DM
0°	1.000	0.000
5°	0.996	0.087
10°	0.985	0.176
15°	0.966	0.268
20°	0.940	0.364
25°	0.906	0.466
30°	0.866	0.577
35°	0.819	0.700
40°	0.766	0.839
45°	0.707	1.000

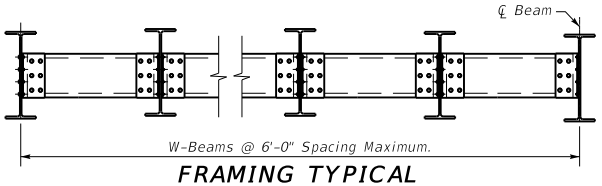


FRAMING PLAN

NOTE: Place girders with any mill or shop camber bowed up in the middle. Heat cambering is not required.

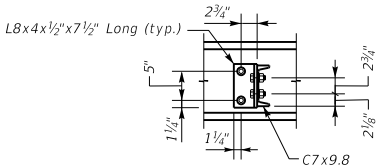


END OF BEAM DETAIL @ SUPPORTS

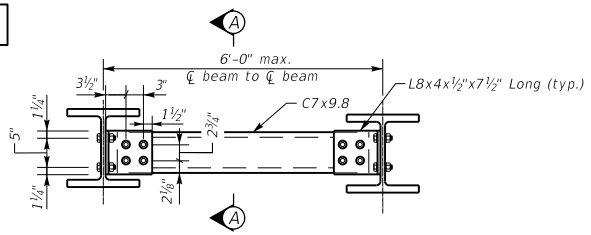


FRAMING TYPICAL

NOTE: Use ¾" ∅ Bolts with 13/16" ∅ Holes Throughout.

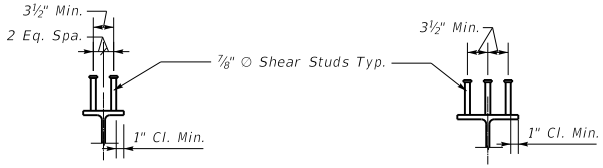


SECTION A-A



INTERMEDIATE DIAPHRAGM

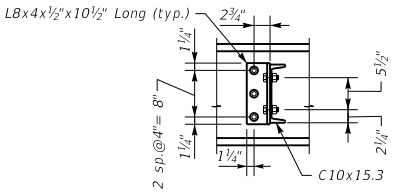
(for up to 14" beam depth)



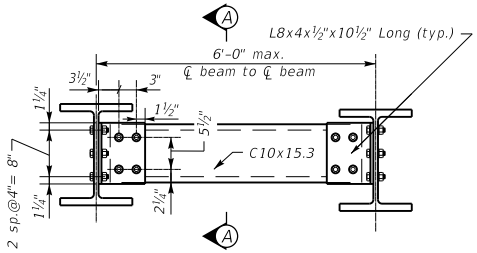
BEAM SECTION - 2 SHEAR STUDS PER ROW

BEAM SECTION - 3 SHEAR STUDS PER ROW

NOTE: Use ¾" ∅ Bolts with 13/16" ∅ Holes Throughout.

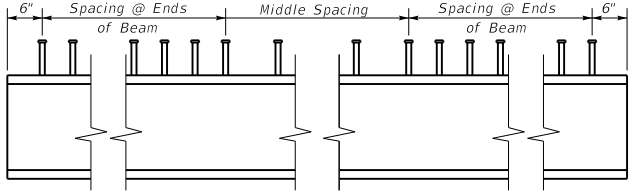


SECTION A-A



INTERMEDIATE DIAPHRAGM

(for up to 20" beam depth)



SHEAR CONNECTOR LAYOUT

(See Beam Tables for Spacings required and number of shear connectors per row)

KENTUCKY
DEPARTMENT OF HIGHWAYS

COMPOSITE STEEL BEAM
SUPERSTRUCTURES
FRAMING PLAN/DIAPHRAGMS

STANDARD DRAWING NO. BSB-104

SUBMITTED _____ 02-26-20
DIRECTOR DIVISION OF STRUCTURAL DESIGN — DATE

APPROVED _____ 02-26-20
STATE HIGHWAY ENGINEER — DATE