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2/9/2026 12:57:07 PM



USER NAME = CodyH
DESIGNED - ELR
CHECKED - NDR
PLOT SCALE = 0:2,0000 "/ in.
DRAWN - CJH
PLOT DATE = 2/9/2026
CHECKED - ELR
REVISED -

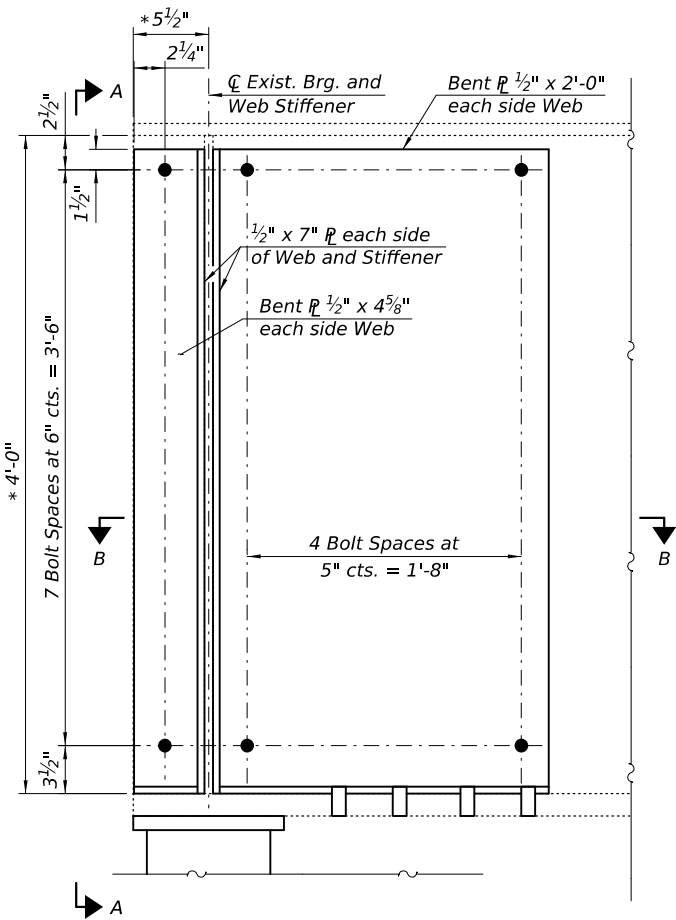
DESIGNED - ELR
CHECKED - NDR
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DRAWN - CJH
PLOT DATE = 2/9/2026
CHECKED - ELR
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

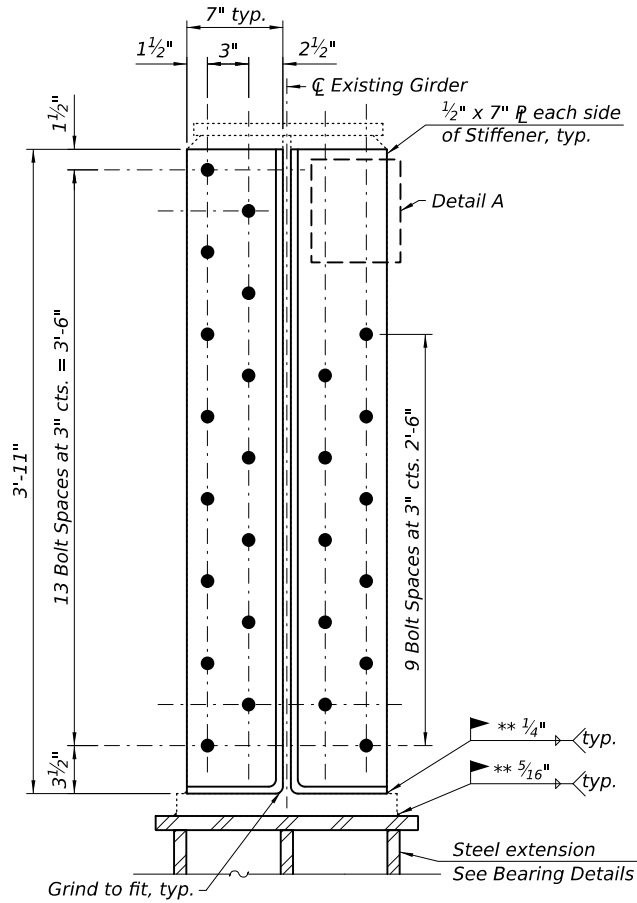
DIAPHRAGM DETAILS AND BEAM END REPAIRS
STRUCTURE NO. 057-0162

SHEET 12 OF 17 SHEETS

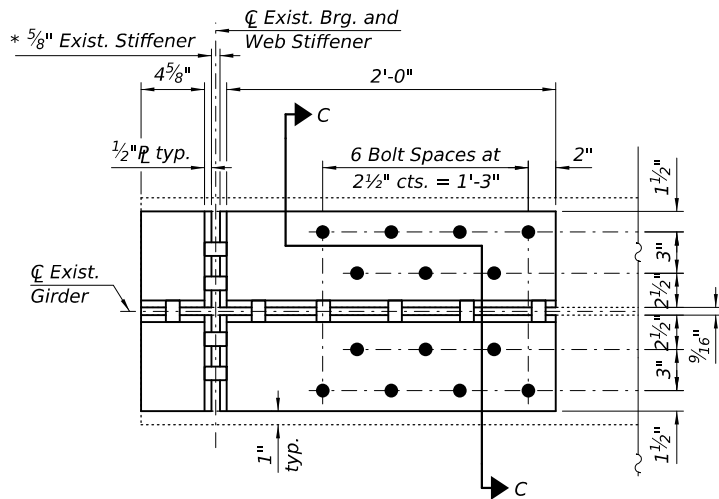
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-3)BR	MCLEAN	126	74
CONTRACT NO. 70F37				
ILLINOIS FED. AID PROJECT				



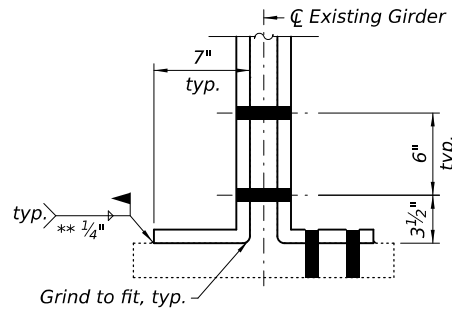
BEAM END REPAIR DETAIL
(18 Locations)



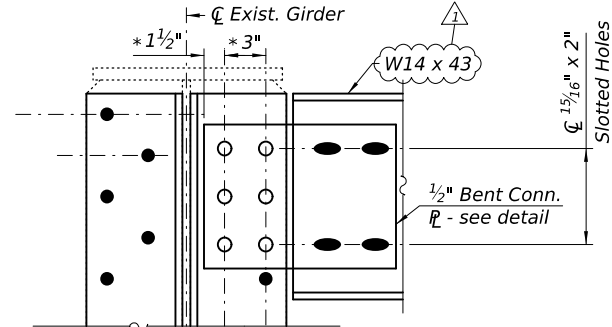
SECTION A-A
(Drawn for fascia beam, interior beams similar)



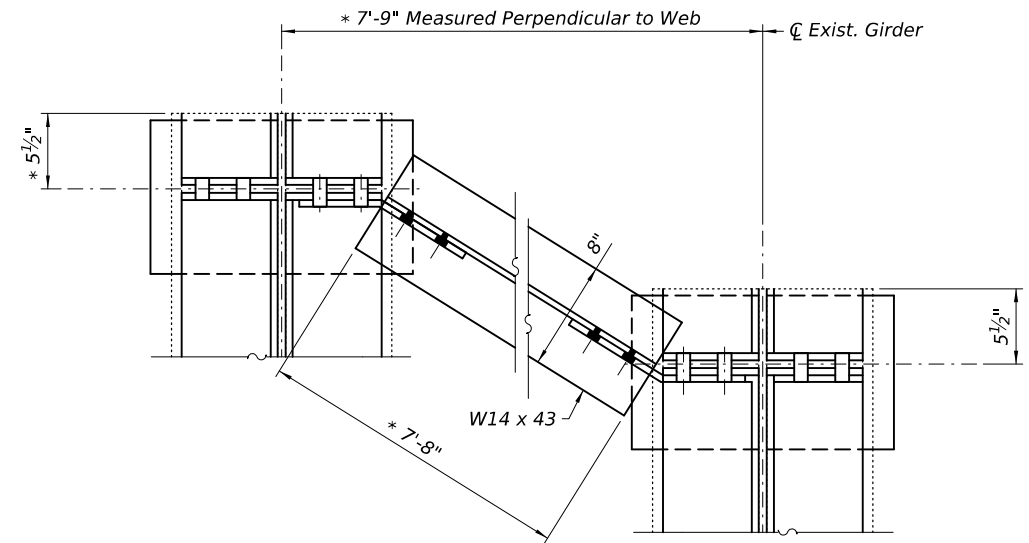
SECTION B-B



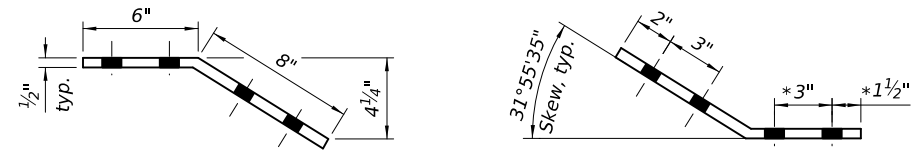
SECTION C-C



DETAIL A



DIAPHRAGM REPLACEMENT DETAIL
(16 Required)



BENT CONNECTION PLATE DETAILS
(PL 1/2" x 10" x 1'-1" - 32 Required)

BOLT HOLE LEGEND

- - Shop Drilled Holes in New Steel
- - Field Drilled Holes in New or Existing Steel using connection plate shop drilled holes as a template, U.N.O.

** Stop welds 1/4" (± 1/8") from edges as shown typ.

Notes:

- Prior to ordering any materials, the Contractor shall field verify all dimensions.
- For dimensions not shown on plans, see existing drawings.
- Diaphragm connection holes shall be 1 5/16" Ø for 3/4" bolts. Two hardened washers shall be required at diaphragm connections, U.N.O.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	6,830
STRUCTURAL STEEL REPAIR	POUND	12,940