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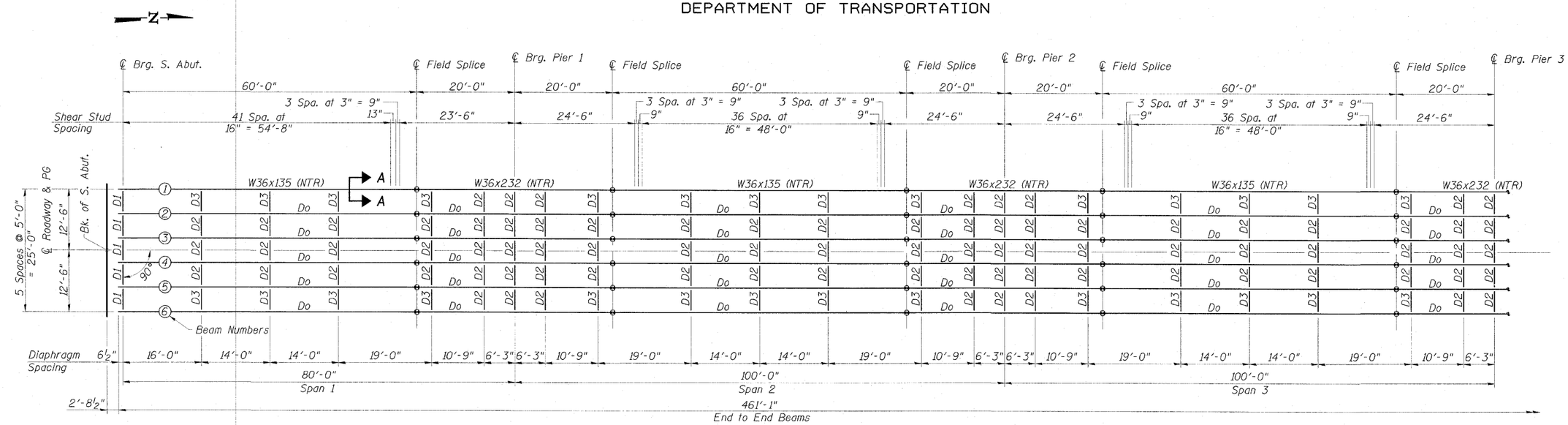
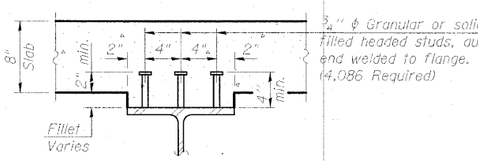
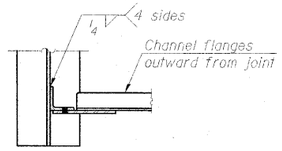
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



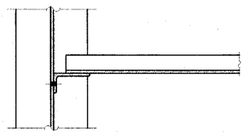
STEEL FRAMING PLAN (SPANS 1, 2 & 3)



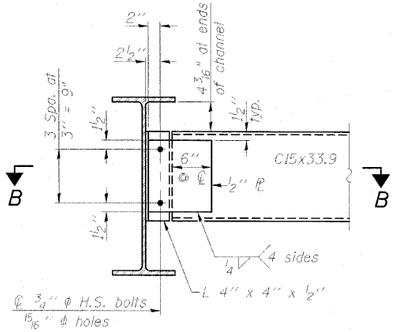
SECTION A-A



SECTION B-B

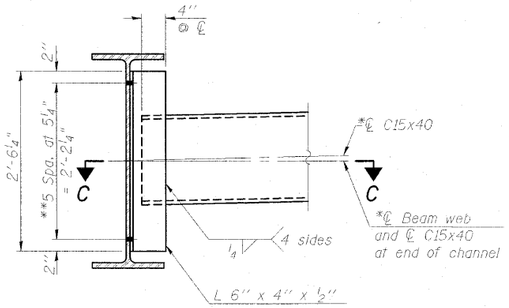


SECTION C-C



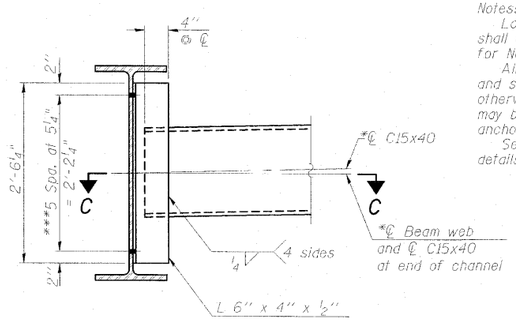
END DIAPHRAGM - D1
(10 Required)

Note:
Two hardened washers required for each set of oversized holes.



INTERIOR DIAPHRAGM - D2
(129 Required)

Notes:
Two hardened washers required for each set of oversized holes.
*Alternate channels (C15x50) are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
**¾" ϕ HS bolts, 15/16" ϕ holes



INTERIOR DIAPHRAGM - D3
(46 Required)

Notes:
Two hardened washers required for each set of oversized or slotted holes.
*Alternate channels (C15x50) are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
***¾" ϕ HS bolts, 15/16" ϕ holes in beam webs and connection angle at interior beam. 15/16" x 2 3/16" vertical long-slotted holes in connection angle at exterior beam.
Slotted holes required to accomodate differential beam deflections. Bolts in slots shall be finger tight until deck pour is complete.

Notes:
Load carrying components designated (NTR) shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
See sheet 15 of 25 for Spans 4 & 5 and additional details.

(Sheet 1 of 2)

STEEL FRAMING PLAN AND DETAILS
STRUCTURE NO. 074-0085

ESCA CONSULTANTS, INC.		
DESIGNED BY:	MTD	10/09
DRAWN BY:	DWH/HAS	11/09
CHECKED BY:	MTD	11/09
APPROVED BY:	RDP	05/10

SHEET NO. 14	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	535	08-00255-00-BR	PIATT	62	38
			CONTRACT NO. 91436		
	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			