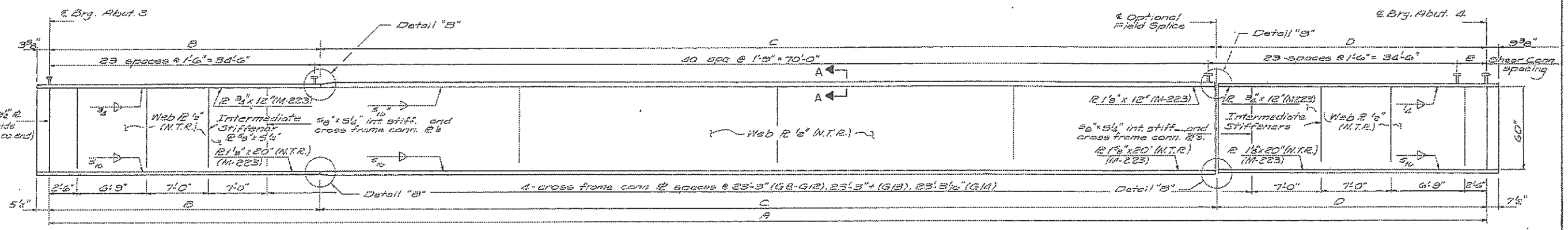
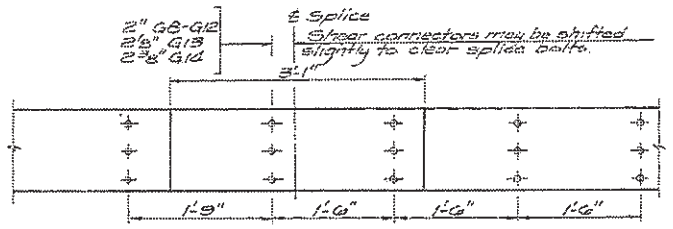
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

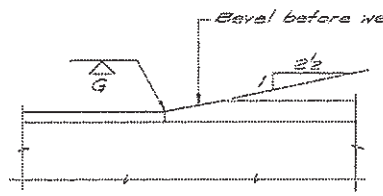
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. I.L. 408	I-3HB	ADAMS	153	75
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 18
SHEETS 29





OPTIONAL SPLICE DETAIL
(STUD SPACING)



DETAIL "B"
(Also to be used at optional field splice location, if field splice is omitted)

GIRDER ELEVATION

NOTE. All dimensions are measured along ℄ of girder.

N.T.R. denotes Notch Toughness Requirements are applicable.

Work this sheet with sheets 16, 19, & 20

All flange plates and splice plates as noted shall be AASHTO M-223 steel, Grade 50. All other steel shall be AASHTO M-183.

LOAD FACTORS 1.3 [DL+S/3(LL+I)] ARE USED FOR COMPUTING MOM. & STRESSES

Ig AND Sg ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION.

Ic AND Sc ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION.

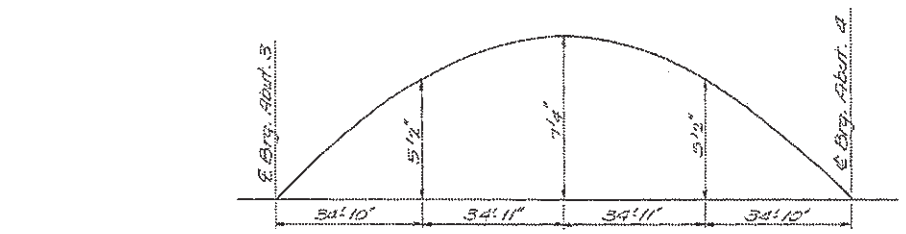
VR IS THE MAXIMUM LL+I SHEAR RANGE IN THE SPAN.

GIRDER DIMENSIONS							
GIRDER	A	B	C	D	E		
8	139'-6"	34'-10"	69'-10"	34'-10"	6"		
9	139'-6"	34'-10"	69'-10"	34'-10"	6"		
10	139'-6"	34'-10"	69'-10"	34'-10"	6"		
11	139'-6"	34'-10"	69'-10"	34'-10"	6"		
12	139'-6"	34'-10"	69'-10"	34'-10"	6"		
13	139'-6⅛"	34'-10"	69'-10⅛"	34'-10"	6⅛"		
14	139'-6⅜"	34'-10"	69'-10⅜"	34'-10"	6⅜"		

TOP OF WEB ELEVATIONS (For Fabrication Only)							
	8	9	10	11	12	13	14
℄ Brg. Abut. 3	517.92	518.04	518.19	518.09	517.95	517.74	517.57
℄ Opt. Field Splice	521.51	521.65	521.78	521.68	521.54	521.37	521.20
℄ Brg. Abut. 4	522.10	522.25	522.37	522.28	522.14	521.98	521.81

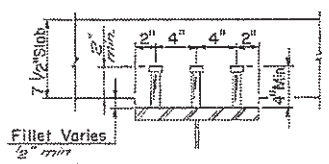
INTERIOR GIRDER MOMENT TABLE				
		0.25 SPAN	0.50 SPAN	0.75 SPAN
Is	(in⁴)	35532	47312	35532
Ssb	(in³)	1457	2007	1457
DL	(k/ft)	1.01	1.05	0.99
MDL	(ft-k)	2452	3272	2434
fsb DL	(ksi)	20.2	19.6	20.1
Ic (n=27)	(in⁴)	69301	79115	69301
Scb	(in³)	1756	2367	1756
SDL	(k/ft)	0.303	0.300	0.298
MSDL	(ft-k)	713	949	710
fsbSDL	(ksi)	4.8	4.8	4.7
Ic (n=9)	(in⁴)	80323	112754	90325
Scb	(in³)	1974	2580	1974
MLL	(ft-k)	2772	3550	2694
MIMP	(ft-k)	524	672	509
MLLTOTAL	(ft-k)	3296	4228	3203
fsb LL	(ksi)	20.0	19.7	19.5
fs TOTAL	(ksi)	45.0	44.1	44.3
VR	(k)	67.2	—	—

REACTION TABLE			
REACTION		ABUT. 3	ABUT. 4
RDL	(k)	92.8	91.7
RLL	(k)	99.1	93.3
RIMP	(k)	11.2	10.1
RTOTAL	(k)	163.4	155.1



CAMBER DIAGRAM
(WITH OPTIONAL FIELD SPLICE)

CAMBER DIAGRAM
(STEEL AND DECK DEAD LOADS)
(WITHOUT OPTIONAL FIELD SPLICE)



¾" ϕ Granular or Solid Flux Filled Headed Studs Automatically End Welded to Flange. (No. Required = 1827, Girders 8-14)

SECTION A-A

DESIGNED	JNG
CHECKED	MWM
DRAWN	JNG
CHECKED	RBY

GIRDERS 8-14
STRUCTURAL STEEL
F.A. RTE. 408 SEC. 1-3H8
ADAMS COUNTY
STA. 120+50.00 F.A.408

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-006465
FOR INFORMATION ONLY

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	28
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			