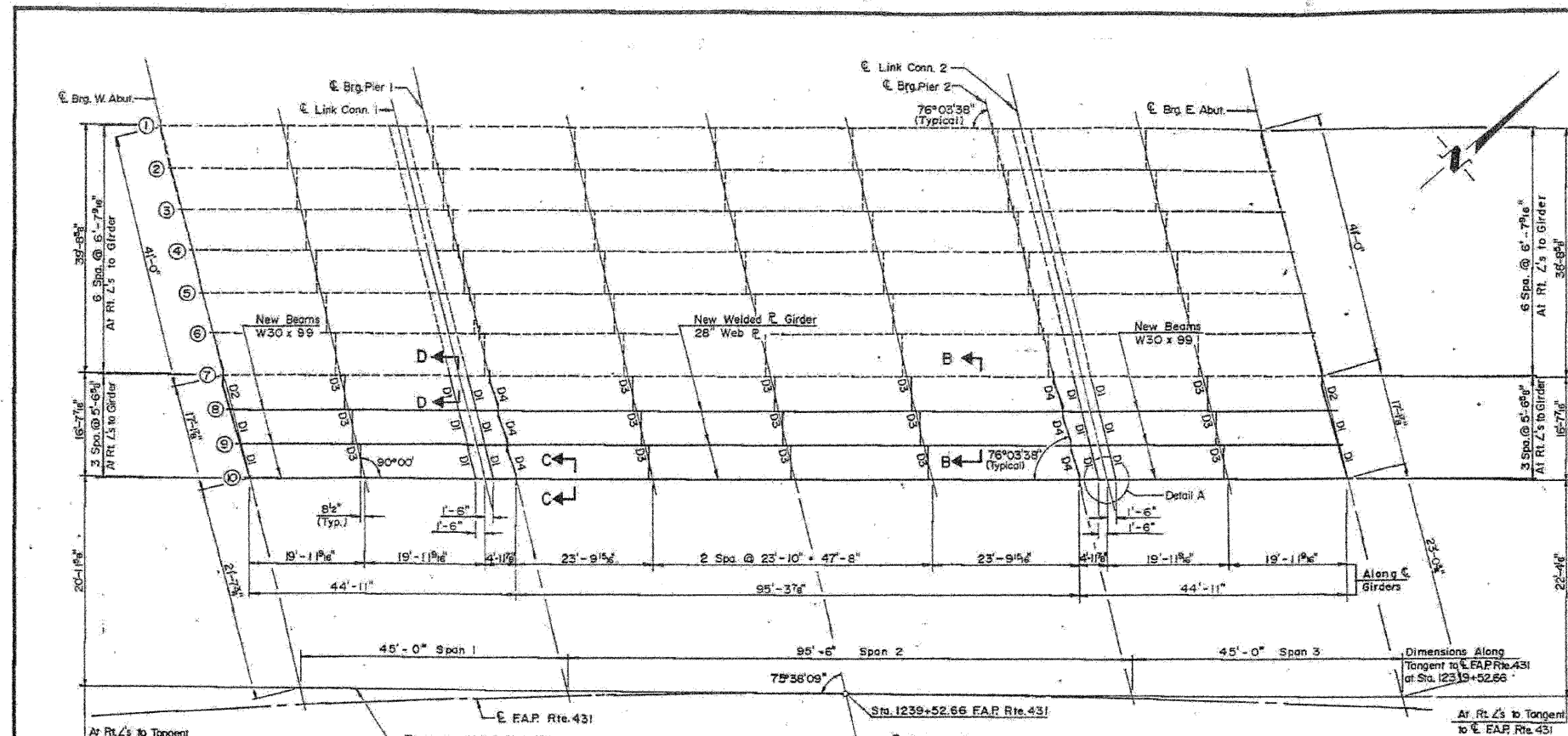


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

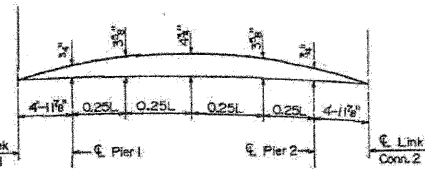
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 431	22-5HS	DU PAGE	131	57
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT		SHEET 10 OF 39	



GIRDER ELEVATIONS

LOCATION	GIRDER		
	B	9	10
€ Brg. W. Abut.	763.15	762.84	762.52
€ Link Conn. 1	762.86	762.55	762.24
€ Pier 1	762.93	762.62	762.31
€ Pier 2	762.69	762.38	762.06
€ Link Conn. 2	761.89	762.58	761.26
€ Brg. E. Abut.	762.88	762.56	762.05

Elevations are given to Top of Flange of Beams and to Top of Web of Girders.
Elevations at € Link Connection have been adjusted for Camber.
Elevations for Fabrication only.
For Top of Flange Elevation at € Link Connection add 0.06 to Top of Web Elevation given in table.



MOMENT TABLE

Composite in Positive Moment Areas of Span 2 only

INTERIOR GIRDER MOMENT TABLE		0.5 Span 1 or 3	0.5 Span 2
I _s	(in ⁴)	3,990	12,955
S _{TS}	(in ³)	269	659
S _{BS}	(in ³)	269	1,093
I _c	(in ⁴)	—	29,829
S _{TC}	(in ³)	—	3,037
S _{BC}	(in ³)	—	1,376
R _i	(k/ft)	0.63	0.78
M _E	(k)	12.6	81.7
f _S NON-COMP	(ksi)	5.62	14.88
S _R	(k/ft)	0.23	0.23
M _{SE}	(k)	4.6	23.6
M _{LE}	(k)	225	721
M _{IMP}	(k)	67	164
TOTAL	(k)	338	1,121
f _S COMP	(ksi)	15.08	4.43
f _S TOTAL	(ksi)	20.70	19.31
VR	(k)	—	41.6

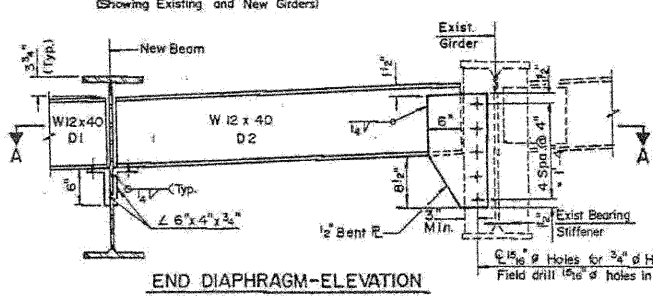
SECTION D-D

I_s = Moment of Inertia Steel Section
S_{TS} = Sec. Mod. Top Steel Section
S_{BS} = Sec. Mod. Bottom Steel Section
I_c = Moment of Inertia Comp. Section
S_{TC} = Sec. Mod. Top Comp. Sect.
S_{BC} = Sec. Mod. Bottom Comp. Sect.
VR is the Maximum Truck $\frac{L}{4}$ + Impact Shear Range in Span

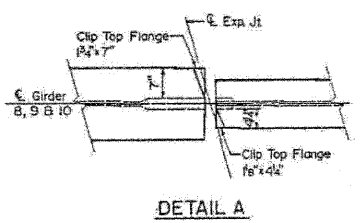
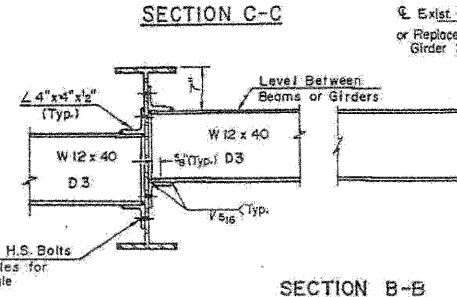
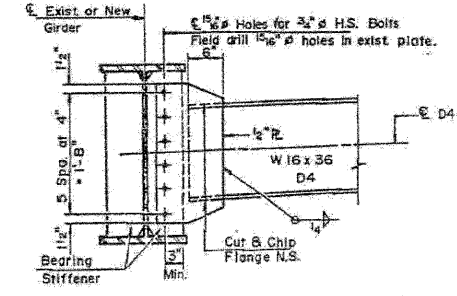
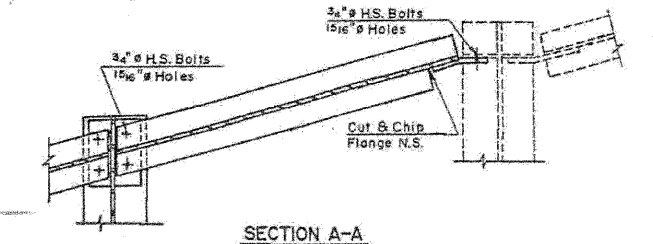
REACTION TABLE

INTERIOR GIRDER REACTION TABLE		ABUT	PIER
R _E	(k)	20.2	70.5
R _L	(k)	27.6	34.4
IMP	(k)	8.3	7.8
RTOTAL	(k)	56.1	112.7

FRAMING PLAN



NOTE: Hardened Washers shall be required over all 1 1/2" holes.



FRAMING PLAN-S&L

F.A.P. ROUTE 431
SECTION 22-5HS
DU PAGE COUNTY
STATION 1239+52.66
STRUCTURE NO. 022-0111

MTA, INCORPORATED	
DESIGNED BY: M.T.S.	CHECKED BY: B.L.
DRAWN BY: K.T.B.	DATE: _____

FOR INFORMATION ONLY

benesch

alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0460 Job No. 10050

SHEET NO. 19	F.A.I. RTE. 290	SECTION 22(1, 1-1, 2&3)RS-7	COUNTY DUPAGE	TOTAL SHEETS 546	SHEET NO. 464
	28 SHEETS	CONTRACT NO. 60G51			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

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