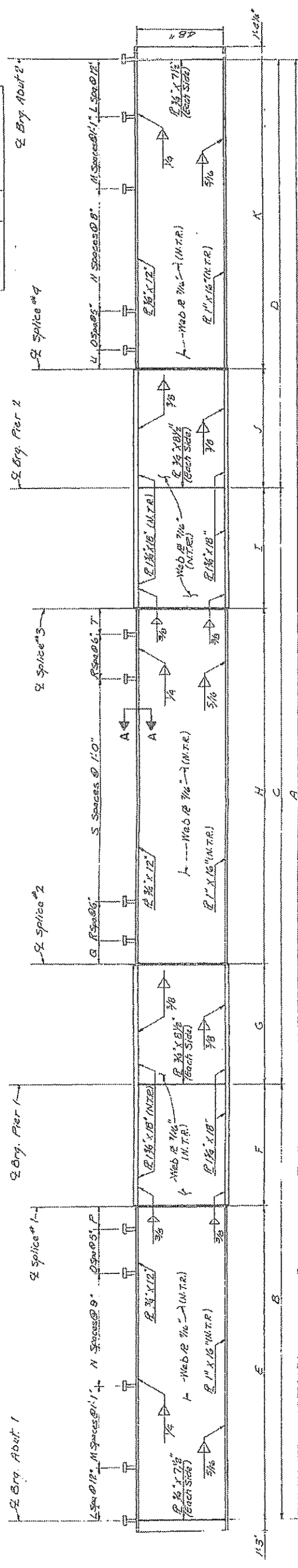


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	1-108	CHART	ADAMS	SHEET NO.	73
DATE	1-8-01	BY	ADAMS	TOTAL SHEETS	27
DESIGNED BY		CHECKED BY		CONTRACT NO.	1-408
DRAWN BY		DATE		SECTION	
CHECKED BY				COUNTY	ADAMS
				DATE	12-15-05
				PROJECT	ILLINOIS FED. AID PROJECT



N.T.R. Denotes Net Thickness Requirements  
for Location and Spacing of Diaphragm Connection  
plates and Intermediate Stiffeners, see Framing Plan, Sheet #12

GIRDER ELEVATION

GIRDER DIMENSIONS

GIRDER	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	267.3%	82.4%	103.0%	81.7%	61.4%	21.0"	25.0"	55.16%	22.6"	22.6"	59.5%	9	24	30	6	1.4 1/8"	1.3"	6	47	1.3 1/8"	1.1 3/8"
2	247.10%	82.1%	103.2%	82.1%	61.6"			55.18%								1.5 1/8"	1.3"			1.5 1/8"	1.1 3/8"
3	248.5%	82.1%	103.5%	82.1%	61.9"			55.19%								1.5 1/8"	1.3"			1.5 1/8"	1.1 3/8"
4	249.1%	82.1%	103.8%	82.1%	62.1"			55.20%								1.5 1/8"	1.3"			1.5 1/8"	1.1 3/8"
5	249.8%	82.1%	103.1%	82.1%	61.7%			55.17%								1.5 1/8"	1.3"			1.5 1/8"	1.1 3/8"

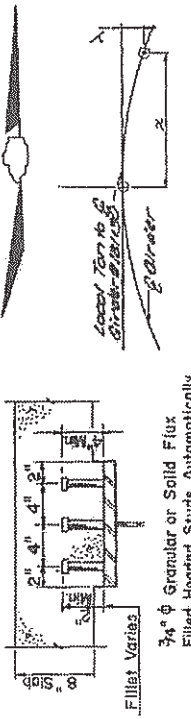
CUTOFF ANGLE, θ

GIRDER	ABUT. 1	ABUT. 2
1	37.08°	42.34°
2	37.29°	42.55°
3	37.49°	42.76°
4	37.69°	42.97°
5	37.90°	43.18°

TOP OF WEB ELEVATIONS (For Fabrication Only)\*

GIRDER NO.	1	2	3	4	5
Q. Brg. Abut. 1	575.44	574.50	574.57	573.09	573.50
Splice 1	575.54	575.00	574.46	573.99	573.59
Q. Brg. Pier 1	575.59	575.05	574.52	573.05	573.44
Splice 2	575.68	575.12	574.59	573.12	573.50
Splice 3	575.78	575.25	574.71	573.24	573.63
Q. Brg. Pier 2	575.83	575.34	574.80	573.29	573.71
Q. Brg. Abut. 2	576.07	575.53	574.99	573.44	573.89

\* Elevations of Splices have been adjusted for Dead Load Deflections.



FLANGE CUTTING DETAIL

AS REVISED

INTERIOR GIRDER MOMENT TABLE

IS	0.4 SPAN 1	PIER 1	0.5 SPAN 2	PIER 2	0.5 SPAN 3
(ft)	18.37	21.03	18.37	21.03	18.37
(k)	863.04	1071.08	863.04	1071.08	863.04
DL	1.15	1.28	1.15	1.28	1.15
MDL	4.07	4.94	4.07	4.94	4.07
(ft-k)	6.41	7.90	6.41	7.90	6.41
(k)	36.36	43.02	36.36	43.02	36.36
(ft-k)	1073.38	1271.08	1073.38	1271.08	1073.38
(k)	145.16	173.24	145.16	173.24	145.16
(ft-k)	1.89	2.39	1.89	2.39	1.89
(k)	53.05	65.03	53.05	65.03	53.05
(ft-k)	154.75	194.75	154.75	194.75	154.75
(k)	843.84	1043.84	843.84	1043.84	843.84
(ft-k)	243.84	303.84	243.84	303.84	243.84
(k)	1047.02	1297.02	1047.02	1297.02	1047.02
(ft-k)	304.78	374.78	304.78	374.78	304.78
(k)	10.47	12.97	10.47	12.97	10.47
(ft-k)	20.46	25.46	20.46	25.46	20.46
(k)	72.72	90.00	72.72	90.00	72.72

GIRDER COORDINATES - TANGENT TO GIRDER AT STA. 1B1+30.00

GIRDER	Q. BRG. ABUT. 1	SPlice 1	Q. BRG. PIER 1	SPlice 2	Q. BRG. PIER 2	SPlice 3	Q. BRG. ABUT. 2
1	-249.050	101.563	-187.879	6.027	-166.918	4.740	-141.952
2	-247.043	9.991	-179.903	5.524	-158.938	4.317	-133.949
3	-253.032	9.956	-173.928	5.060	-150.949	3.716	-120.938
4	-225.287	8.774	-143.099	4.474	-122.918	3.508	-112.933
5	-271.736	8.174	-155.872	4.184	-134.878	3.135	-104.920

DESIGNED BY: JHM  
CHECKED BY: MYM  
DRAWN BY: BSG  
CONSULTED BY: MYM

STRUCTURAL STEEL, GIRDERS 1-5  
F. A. RTE. 408 SEC. 1-4B-1  
ADAMS COUNTY  
STA. 1B1+30.00 F. A. 408