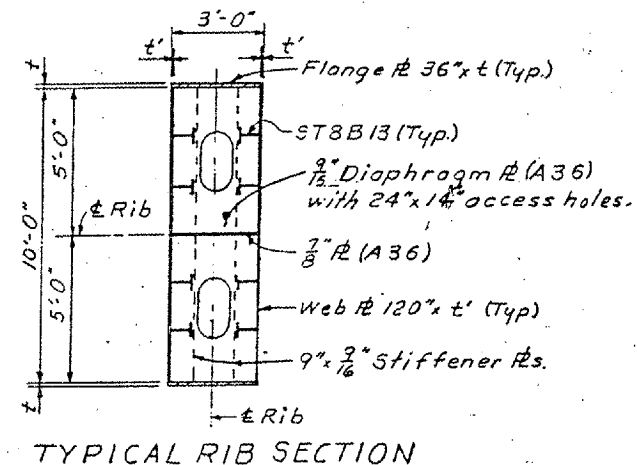
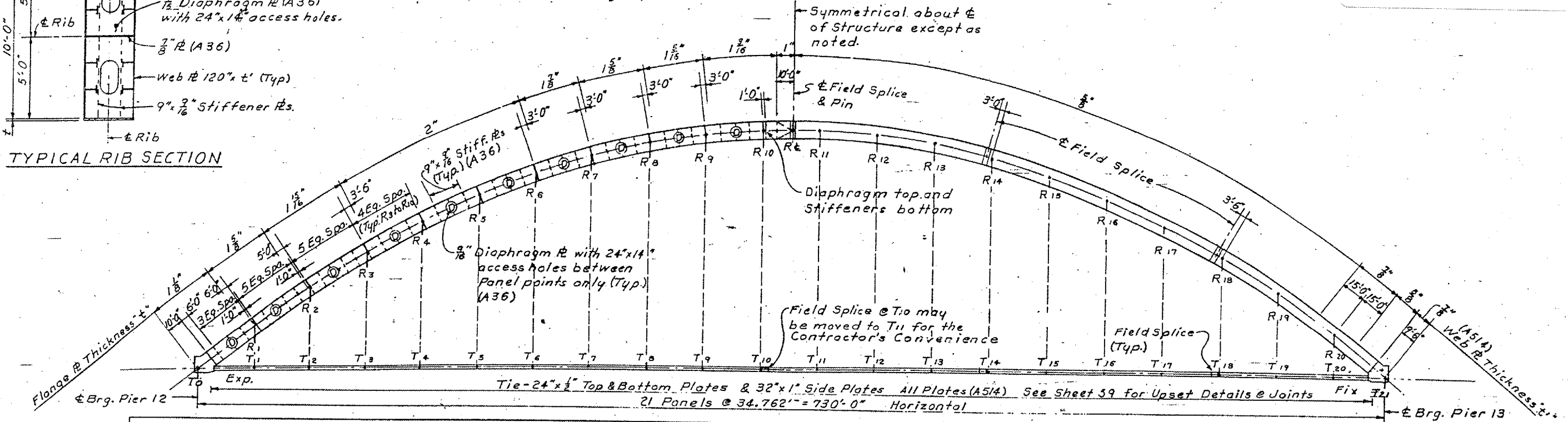


CONTRACT: 98990
 ROUTE: INTERSTATE 24
 SECTION: (64-3B)1-6
 COUNTY: MASSAC, IL; McCRACKEN, KY
 SHEET 38 OF 99
 FOR INFORMATION ONLY



Half Rib Elevation Showing Flange Thickness and Length Plus Diaphragm and Stiffener Location. (Typical each Half.) See Shop Flange Splice, Sheet 20.

Half Rib Elevation Showing Web Plate Thickness and Field Splice Location (Typical Each Half Except for Field Splice @ T10) See Shop Web Splice, Sheet 20



MEMBER FORCES

Member	Joint	Dead Load-Steel		Dead Load-Conc.		Future Wear Surf.		Live Load		Impact		Total (DL, FWS, LL & I)		10% (DL + FWS)		Design Total - 10%	
		Axial Force	Bending Moment	Axial Force	Bending Moment	Axial Force	Bending Moment	Axial Force	Bending Moment	Axial Force	Bending Moment	Axial Force	Bending Moment	Axial Force	Bending Moment	Axial Force	Bending Moment
To-T2L	To	+1370	-172	+2009	-152	+272	-29	+539	-59	+32	-3	+4222	-415	+365	-35	+3857	-380
To-T21	T21	+1370	+172	+2009	+152	+272	+29	+539	+59	+32	+3	+4222	+415	+365	+35	+3857	+380
To-R1	To	-1737	+172	-2537	+152	-343	+29	-388	+2266	-41	+240	-5046	+2859	-462	+35	-4584	+2824
To-R1	R1	-1737	+1998	-2537	-4663	-343	-72	-252	+57042	-34	+7758	-4903	+62063	-462	-274*	-4441	+62063
R1-R2	R1	-1672	-1998	-2434	+4663	-330	+72	-202	-57042	-27	-7758	-4665	-62063	-444	+274*	-4221	-62063
R1-R2	R2	-1672	+7928	-2434	-9226	-330	-203	-223	+97985	-30	+13326	-4689	+109810	-444	-150*	-4245	+109810
R2-R3	R2	-1610	+7928	-2357	+9226	-320	+203	-182	-97985	-25	-13326	-4494	-109810	-429	+150*	-4065	-109810
R2-R3	R3	-1610	+11347	-2357	-8706	-320	+309	-245	+126371	-30	+15670	-4562	+144991	-429	+295	-4133	+144696
R3-R4	R3	-1551	-11347	-2270	+8706	-307	-309	-201	-126371	-25	-15670	-4354	-144991	-413	-295	-3941	-144696
R3-R4	R4	-1551	+12523	-2270	-10864	-307	+378	-221	+139435	-27	+17290	-4376	+158762	-413	+204	-3963	+158558
R4-R5	R4	-1504	-12523	-2217	+10864	-300	-378	-193	-139435	-24	-17290	-4238	-158762	-402	-204	-3836	-158558
R4-R5	R5	-1504	+8602	-2217	-6149	-300	+1363	-252	+144051	-29	+16422	-4302	+164289	-402	+382	-3900	+163907
R5-R6	R5	-1463	-8602	-2149	+6149	-291	-1363	-223	-144051	-25	-16422	-4151	-164289	-390	-382	-3761	-163907
R5-R6	R6	-1463	+6806	-2149	-5108	-291	+1771	-236	+136748	-27	+15589	-4166	+155806	-390	+347	-3776	+155459
R6-R7	R6	-1430	-6806	-2102	+5108	-284	-1771	-216	-136748	-26	-15589	-4058	-155806	-382	-347	-3676	-155459
R6-R7	R7	-1430	+4274	-2102	-2194	-284	+2387	-270	+122735	-27	+13010	-4113	+140212	-382	+447	-3731	+139765
R7-R8	R7	-1402	-4274	-2058	+2194	-278	-2387	-254	-122735	-27	-13010	-4019	-140212	-374	-447	-3645	-139765
R7-R8	R8	-1402	+2711	-2058	-1957	-278	+2561	-303	+100850	-30	+9934	-4071	+114099	-374	+332	-3697	+113767
R8-R9	R8	-1384	-2711	-2035	+1957	-275	-2561	-294	-100850	-29	-9934	-4017	-114099	-369	-332	-3648	-113767
R8-R9	R9	-1384	+1478	-2035	+3021	-275	+3357	-320	+79398	-36	+9051	-4050	+93349	-369	+490	-3681	+92859
R9-R10	R9	-1374	-1478	-2015	-3021	-272	-3357	-313	-79398	-36	-9051	-4010	-93349	-366	-490	-3664	-92859
R9-R10	R10	-1374	+338	-2015	+3617	-272	+3495	-285	+67133	-39	+9130	-3985	+83037	-366	+677	-3619	+82360
R10-R11	R10	-1370	-338	-2009	-3617	-272	-3495	-284	-67133	-39	-9130	-3974	-83037	-365	-677	-3609	-82360
R10-R11	R11	-1370	0	-2009	0	-272	+3006	-286	+61047	-39	+8350	-3976	+72403	-365	+301	-3611	+72102

NOTE
 All Dimensions are measured along chord.
 Sign Convention:
 Axial Load in kips: neg. = Compression pos. = Tension
 Bending Moment in inch kip
 neg. = Rotates Joint Counter Clockwise.
 pos. = Rotates Joint Clockwise
 * 10% Reduction not used because it increases stress.
 ** Live Load + Impact and Future Wearing Surface are applied when joint is in a fixed condition. The Dead Load of the Concrete and Steel is applied when the joint is in a pinned condition.

KENTUCKY DEPARTMENT OF HIGHWAYS
 ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 PROJECTS 124-11(6)38, 124-9(1)10, 124-11(6)11
 BRIDGE OVER OHIO RIVER ON 124
 BETWEEN McCRACKEN COUNTY, KENTUCKY AND MASSAC COUNTY, ILLINOIS

HAZLET & BRAD
 Consulting Engineers
 P.O. No. 588

BRIDGE NUMBER
 17471

DRAWING NO.
 17471

RIB STRESS UNIT V