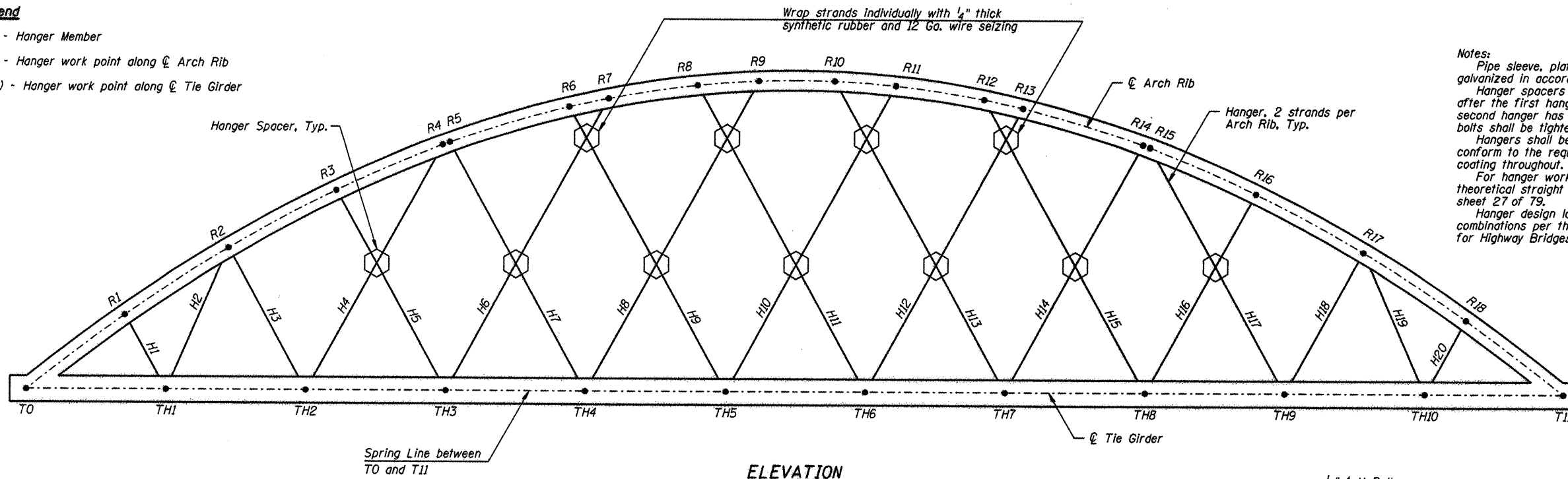


Legend

H(n) - Hanger Member

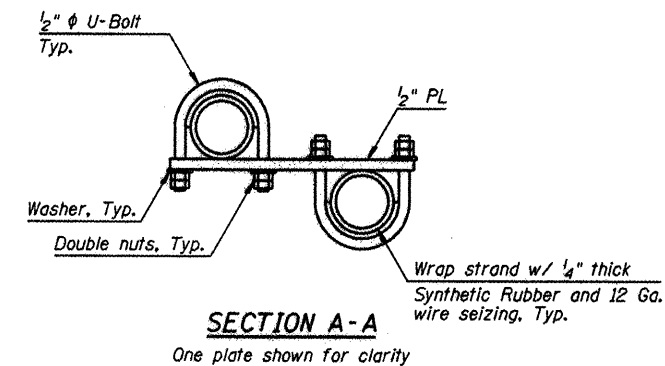
R(n) - Hanger work point along ϕ Arch Rib

TH(n) - Hanger work point along ϕ Tie Girder



Notes:
 Pipe sleeve, plate, U-bolts, nuts and washers shall be galvanized in accordance with ASTM A153.
 Hanger spacers shall be installed, but not tightened, after the first hanger has been fully tensioned. After the second hanger has been fully tensioned, the hanger spacer bolts shall be tightened.
 Hangers shall be galvanized structural strand and shall conform to the requirements of ASTM A586 with Class C coating throughout.
 For hanger work points and hanger length based on the theoretical straight line dimensions from ϕ pin to ϕ pin, see sheet 27 of 79.
 Hanger design loads are based on the Service Load combinations per the 2002 AASHTO Standard Specifications for Highway Bridges.

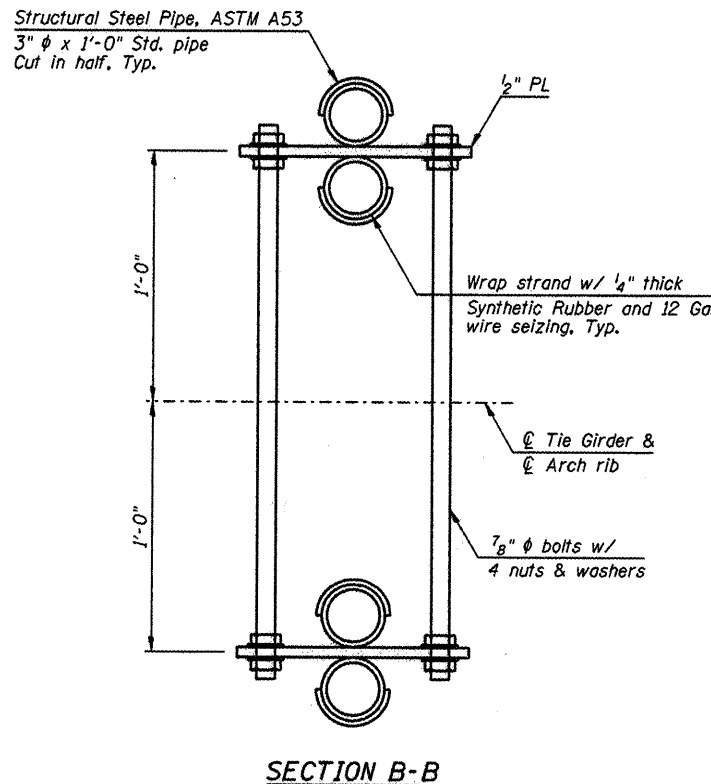
ELEVATION



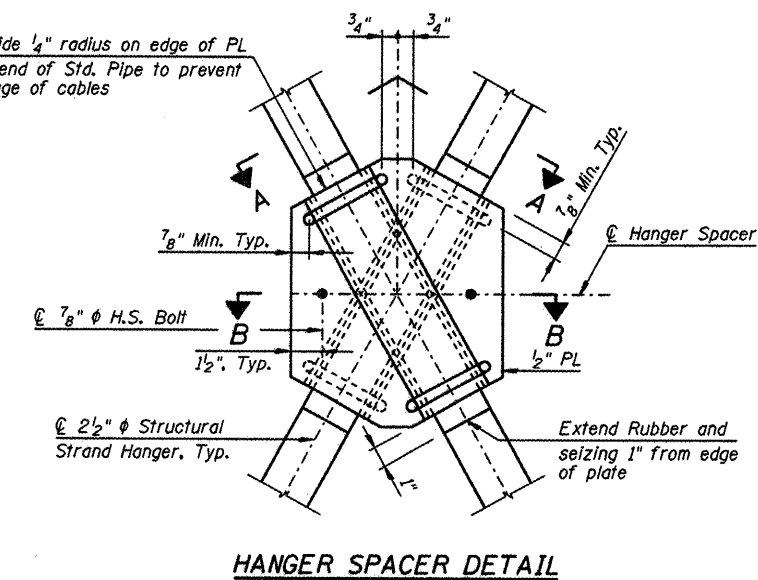
SECTION A-A
One plate shown for clarity

Hanger H(n)	Struct. Strand Dia. (In.)	No. Strands Required Per Rib	Gross Metallic Area (Sq. In.)	Loads (Kips)						
				Service			Factored			
				DL-A	DL-B	FWS	Max.	Min.	Max.	Min.
H1	2.5	2	3.75	79	8	23	144	104	214	136
H2	2.5	2	3.75	21	2	8	70	16	116	14
H3	2.5	2	3.75	117	12	35	220	158	330	206
H4	2.5	2	3.75	80	7	23	185	82	297	89
H5	2.5	2	3.75	124	13	39	242	168	368	217
H6	2.5	2	3.75	110	11	33	246	123	393	138
H7	2.5	2	3.75	121	12	38	244	155	375	193
H8	2.5	2	3.75	114	12	36	252	132	402	150
H9	2.5	2	3.75	108	12	36	235	134	367	160
H10	2.5	2	3.75	106	12	36	238	126	377	146
H11	2.5	2	3.75	111	12	36	244	131	385	153
H12	2.5	2	3.75	109	12	36	234	134	367	160
H13	2.5	2	3.75	115	12	36	255	132	403	152
H14	2.5	2	3.75	115	12	38	239	149	367	185
H15	2.5	2	3.75	117	11	34	254	129	402	148
H16	2.5	2	3.75	124	13	39	243	167	368	216
H17	2.5	2	3.75	86	7	24	193	88	307	100
H18	2.5	2	3.75	112	12	35	216	149	323	194
H19	2.5	2	3.75	31	3	9	81	28	130	31
H20	2.5	2	3.75	83	8	22	149	107	219	139

Notes:
 Loads shown in table are per hanger (2 strands per hanger).
 DL-A is the cable force due to steel and wet concrete.
 DL-B is the cable force due to superimposed Dead loads (Barriers).
 FWS is the cable force due to Future Wearing Surface.



SECTION B-B



HANGER SPACER DETAIL

L:\PROJECTS\0826822\Drawings\Hanger Schedule.dwg



DESIGNED - PA, JDJ, BPD, CJW	REVISED -
DRAWN - GLD	REVISED -
CHECKED - RJK	REVISED -
DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

**HANGER SCHEDULE
STRUCTURE NO. 101-0108**

SCALE: SHEET NO. 51 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	177
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT BRN-5099651	