

ITEM NUMBER	S.P.	PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	80% STATE / 20% CITY			100% CITY
						ROADWAY 0003	BRIDGE 0010	TRAINEES 0042	NON-PARTICIPATING
121		60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	7,702	7,702			
122		60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	277	277			
123	*	60624610	CORRUGATED MEDIAN (DOWELLED)	SO FT	1,657	1,657			
124		63200310	GUARDRAIL REMOVAL	FOOT	9	9			
125		66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	7	7			
△	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	5,050	3,600	1,450		
△		66900450	SPECIAL WASTE PLANS AND REPORT	L SUM	1	1			
△		66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4			
129		67100100	MOBILIZATION	LSUM	1	1			
130		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,390	2,390			
131		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	796	796			
132		72000100	SIGN PANEL - TYPE 1	SO FT	408	408			
133		72000200	SIGN PANEL - TYPE 2	SO FT	138	138			
134		72000300	SIGN PANEL - TYPE 3	SO FT	60	60			
135		72400310	REMOVE SIGN PANEL - TYPE 1	SO FT	180	180			
136		72400320	REMOVE SIGN PANEL - TYPE 2	SO FT	15	15			
137		72400330	REMOVE SIGN PANEL - TYPE 3	SO FT	96	96			
138		72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	304	304			
△		78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	758	758			
△		78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	10,300	10,300			
△		78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	132	132			
△		78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	146	146			
△		78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	644	644			
△		78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	267	267			
△		78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	78	78			
146		78300100	PAVEMENT MARKING REMOVAL	SO FT	530	530			
△		80400100	ELECTRIC SERVICE INSTALLATION	EACH	2	2			
△		81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	140	140			
△		81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	840	840			
△		81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	9,808	9,808			

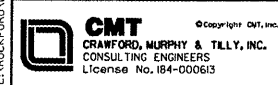
ITEM NUMBER	S.P.	PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	80% STATE / 20% CITY			100% CITY
						ROADWAY 0003	BRIDGE 0010	TRAINEES 0042	NON-PARTICIPATING
△		81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1,985	1,985			
152		81301370	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 18" X 12" X 8"	EACH	5	5			
△		81400100	HANDHOLE	EACH	14	14			
△		81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	9,530	9,530			
△		81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	19,230	19,230			
△		81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	510	510			
△	*	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	6,163	6,163			
△		82103600	LUMINAIRE, SODIUM VAPOR, VERTICAL MOUNT, 250 WATT	EACH	9	9			
△		82103700	LUMINAIRE, SODIUM VAPOR, VERTICAL MOUNT, 400 WATT	EACH	42	42			
△		82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100 AMP	EACH	2	2			
△		83006200	LIGHT POLE, ALUMINUM, 30 FT. M.H., 6 FT. MAST ARM	EACH	9	9			
△		83008200	LIGHT POLE, ALUMINUM, 40 FT. M.H., 6 FT. MAST ARM	EACH	42	42			
△		83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	559	559			
△		83800505	BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT	EACH	43	43			
△		89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	7	7			
△		89502380	REMOVE EXISTING HANDHOLE	EACH	2	2			
△		A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4			
△		A2006816	TREE, QUERCUS MUEHLENBERGII (CHINKAPIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4			
△		A2007916	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4			
△		A2008468	TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4			
△		A2008722	TREE, ULMUS PATRIOT (PATRIOT ELM), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4			
172	*	X0321865	ANTI-GRAFFITI PROTECTION SYSTEM	SO FT	10,921				10,921
173	*	X0322924	RETAINING WALL REMOVAL	SO FT	450	450			
174	*	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	1	1			
△	*	X0323172	DUCTILE IRON WATER MAIN BEND, 45 DEGREES, 8 INCHES	EACH	29				29
△	*	X0323182	DUCTILE IRON WATER MAIN REDUCER, 8"x6"	EACH	3				3
△	*	X0323760	SANITARY SEWER SERVICE, 6" PVC, COMPLETE	EACH	1				1
△	*	X0323820	DUCTILE IRON WATER MAIN TEE, 8" X 8"	EACH	11				11
△	*	X0323821	DUCTILE IRON WATER MAIN REDUCER, 10"x8"	EACH	3				3
△	*	X0324445	DUCTILE IRON WATER MAIN FITTINGS 8" 22.5 DEGREE BEND	EACH	5				5

NOTES:

- INDICATES SPECIAL PROVISION
- INDICATES IDOT RECURRING SPECIAL PROVISION
- BDE INDICATES IDOT BDE SPECIAL PROVISION
- GBSP INDICATES IDOT GBSP SPECIAL PROVISION

△ SPECIALTY ITEMS

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USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - ADDENDUM 1
DRAWN - ERD	CHECKED - SJP	DATE - 02/04/2011
PLOT SCALE = 40.0000' / IN.		
PLOT DATE = 02/04/11		

4-25-11
CITY OF ROCKFORD
MORGAN STREET BRIDGE

SUMMARY OF QUANTITIES	
SCALE: N/A	SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 9
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965				

ITEM NUMBER	S.P.	PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	80% STATE / 20% CITY			100% CITY
						ROADWAY 0003	BRIDGE 0010	TRAINEES 0042	
181	*	X0324449	DUCTILE IRON WATER MAIN FITTINGS, MECHANICAL JOINT 8"x6" HYDRANT TEE	EACH	10				10
182	*	X0324554	CONCRETE FLAT SLAB TOP	EACH	1	1			
183	*	X0324741	HDP PIPE 8"	FOOT	100				100
184	*	XX008523	CONDUIT INSTALLED, 1 1/2" PVC	FOOT	182	182			
185	*	X0325340	FIRE HYDRANT WITH 6" VALVE AND VALVE BOX	EACH	10				10
186	GBSP	X5210450	HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED - 2750K	EACH	2		2		
187	*	X0326414	STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8 INCH	SQ FT	2,626	2,626			
188	*	X0326891	TEMPORARY ACCESS ROAD (SPECIAL)	SQ YD	2,222				2,222
189	GBSP	X0327139	AGGREGATE COLUMN GROUND IMPROVEMENT	L SUM	1		1		
190	*	X0839900	SANITARY SEWER REMOVAL 6"	FOOT	100				100
191	*	X0840000	SANITARY SEWER REMOVAL 8"	FOOT	1,098				1,098
192	*	X2010510	CLEARING AND GRUBBING	LSUM	1	1			
193	*	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	7,243	7,090	153		
194	*	X2800500	INLET PROTECTION, SPECIAL	EACH	70	70			
195	*	X4403800	MEDIAN SURFACE REMOVAL	SQ FT	2,847	2,847			
196	*	X5011100	FOUNDATION REMOVAL	EACH	1	1			
197	*	X5091725	BICYCLE RAILING, SPECIAL	FOOT	1,253		1,253		
198	*	X5091755	PARAPET RAILING, SPECIAL	FOOT	1,281		1,281		
199	*	X5150110	NAME PLATES (SPECIAL)	EACH	4				4
200	GBSP	X5210280	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION - 2800K	EACH	2		2		
201	*	X5539700	STORM SEWERS TO BE CLEANED	FOOT	90	90			
202	*	X5630004	CUT AND CAP EXISTING 4" WATER MAIN	EACH	6				6
203	*	X5630006	CUT AND CAP EXISTING 6" WATER MAIN	EACH	11				11
204	*	X5630008	CUT AND CAP EXISTING 8" WATER MAIN	EACH	2				2
205	*	X5630010	CUT AND CAP EXISTING 10" WATER MAIN	EACH	6				6
206	*	X5630704	CONNECTION TO EXISTING WATER MAIN 4"	EACH	4				4
207	*	X5630706	CONNECTION TO EXISTING WATER MAIN 6"	EACH	4				4
208	*	X5630708	CONNECTION TO EXISTING WATER MAIN 8"	EACH	4				4
209	*	X5630710	CONNECTION TO EXISTING WATER MAIN 10"	EACH	6				6
210	*	X6024242	INLETS, SPECIAL, NO. 1	EACH	18	18			

ITEM NUMBER	S.P.	PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	80% STATE / 20% CITY			100% CITY
						ROADWAY 0003	BRIDGE 0010	TRAINEES 0042	
211	*	X6024244	INLETS, SPECIAL, NO. 2	EACH	32	32			
212	*	XX008522	MODIFIED JUNCTION CHAMBER	EACH	1				1
213	*	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	11				11
214	*	X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	5				5
215	*	X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	12				12
216	*	X6026622	VALVE VAULTS TO BE REMOVED	EACH	20	20			
217	*	X6026632	VALVE BOXES TO BE REMOVED	EACH	18	18			
218	*	X6027000	CONCRETE GUTTER, TYPE A (SPECIAL)	FOOT	954	954			
219	*	X6640300	CHAIN LINK FENCE REMOVAL	FOOT	98	98			
220	*	X6660445	RIGHT-OF-WAY AND PROPERTY CORNERS	EACH	17	17			
221	*	X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	32	32			
222	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1			
223	*	XX002063	LIGHTING SYSTEM COMPLETE	LSUM	1				1
224	*	XX003525	DUCTILE IRON WATER MAIN FITTING - 8" X 4" REDUCER	EACH	3				3
225	*	XX005003	DUCTILE IRON WATER MAIN FITTING - 10" X 6" TEE	EACH	3				3
226	*	XX005488	STEEL CASING BORED AND JACKED 48"	FOOT	60	60			
227	*	XX005786	DUCTILE IRON WATER MAIN FITTINGS TEE 8" X 4"	EACH	1				1
228	*	XX005787	DUCTILE IRON WATER MAIN FITTINGS TEE 8"x6"	EACH	2				2
229	*	XX006241	GATE VALVE AND BOX 8"	EACH	19				19
230	*	XX006243	WATER SERVICE INSTALL, 1" COMPLETE	EACH	25				25
231	*	XX006244	WATER SERVICE INSTALL, 2" COMPLETE	EACH	4				4
232	*	XX006652	STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 4 INCH (SPECIAL)	SQ FT	2,893	2,893			
233	*	XX007263	GATE VALVE WITH BOX 4"	EACH	1				1
234	*	XX007758	ADJUSTING WATER VALVE BOXES	EACH	2				2
235	*	XX008156	LINE STOPS 10"	EACH	2				2
236	*	XX008455	INLET BOX, SPECIAL	EACH	3	3			
237	**	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
238		Z0018004	DRAINAGE SCUPPERS, D5-12	EACH	12		12		
239	GBSP	Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	5,163		5,163		
240	GBSP	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	80		80		
241	BDE	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	2	2			
242	*	Z0051398	REMOVE EXISTING SIGN POST	EACH	27	27			
243	*	XX008524	STEEL FABRICATED PARAPET WALL INSERT	EACH	1				1
244	*	Z0062456	TEMPORARY PAVEMENT	SQ YD	40	40			
245	BDE	Z0076600	TRAINEES	HOUR	1,000				1,000
246	*	Z0077002	WATER MAIN REMOVAL	FOOT	200				200

NOTES:

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- BDE INDICATES IDOT BDE SPECIAL PROVISION
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△ SPECIALTY ITEMS



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - ADDENDUM 1
PLOT SCALE = 40.0000' / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

4-25-11
**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.

F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 10
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509165				

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8. SCHEDULE OF LIGHTING ITEMS

SHEET	STATION	TO	STATION	ALIGNMENT	ELECTRIC SERVICE INSTALLATION	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	JUNCTION BOX, STAINLESS STEEL EMBEDDED IN STRUCTURE, 18"X12"X8"	CONDUIT INSTALLED, 1 1/2" PVC	HANDHOLE	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TY USE) 1/C NO. 8	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TY USE) 1/C NO. 6
					(EACH)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(FOOT)	(EACH)	(FOOT)	(FOOT)
LIGHTING-01	34+00	TO	46+00	MORGAN STREET	1	60	188	3,750	-	1	182	3	2,528	5,136
LIGHTING-02	46+00	TO	58+00	MORGAN ST / COLLEGE AVE	-	-	-	2,125	1,985	2	-	-	3,118	6,236
LIGHTING-03	58+00	TO	68+53	COLLEGE AVENUE	-	-	492	3,101	-	2	-	9	2,740	5,480
LIGHTING-04	0+60	TO	13+92	SEMINARY STREET	1	80	160	832	-	-	2	2	1,144	2,378
TOTALS =					2	140	840	9,808	1,985	5	182	14	9,530	19,230

8. SCHEDULE OF LIGHTING ITEMS

SHEET	STATION	TO	STATION	ALIGNMENT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TY USE) 1/C NO. 2	TRENCH AND BACKFILL FOR ELECTRICAL WORK	LUMINAIRE, SODIUM VAPOR, VERTICAL MOUNT, 250 WATT	LUMINAIRE, SODIUM VAPOR, VERTICAL MOUNT, 400 WATT	LIGHTING CONTROLLER, BASE MOUNTED, 480V, 100 AMP	LIGHT POLE, ALUMINUM, 30 FT. M.H., 6 FT. MAST ARM	LIGHT POLE, ALUMINUM, 40 FT. M.H., 6 FT. MAST ARM	LIGHT POLE FOUNDATION, 24" DIAMETER	BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT	LIGHTING SYSTEM COMPLETE
					(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)	(EACH)	(L SUM)
LIGHTING-01	34+00	TO	46+00	MORGAN STREET	240	2,194	-	14	1	-	14	182	14	14
LIGHTING-02	46+00	TO	58+00	MORGAN ST / COLLEGE AVE	-	810	-	14	-	-	14	78	6	1
LIGHTING-03	58+00	TO	68+53	COLLEGE AVENUE	-	2,237	9	8	-	9	8	221	17	1
LIGHTING-04	0+60	TO	13+92	SEMINARY STREET	270	922	-	6	1	-	6	78	6	1
TOTALS =					510	6,163	9	42	2	9	42	559	43	1

9. SCHEDULE OF WATER MAIN RELATED ITEMS

SHEET	STATION	TO	STATION	ALIGNMENT	D.I. W.M. 8"	GATE VALVE WITH BOX 4"	GATE VALVE AND BOX 8"	WATER SERVICE INSTALL, 1" COMPLETE	WATER SERVICE INSTALL, 2" COMPLETE	DUCTILE IRON WATER MAIN 6"	DUCTILE IRON WATER MAIN BEND, 45 DEG, 8"	DUCTILE IRON WATER MAIN REDUCER, 8"X6"	D.I. W.M. FITTINGS, TEE 8"X6"	DUCTILE IRON WATER MAIN TEE, 8"X8"	DUCTILE IRON WATER MAIN REDUCER, 10"X8"	LINE STOPS 10"
					(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
DR-01	34+00	TO	40+00	MORGAN STREET	527	-	3	2	-	46	7	1	1	1	-	1
DR-02	40+00	TO	46+00	MORGAN STREET	516	-	2	-	1	-	4	-	-	1	-	1
DR-03	46+00	TO	52+00	MORGAN STREET	-	-	-	-	-	-	-	-	-	-	-	-
DR-04	52+00	TO	58+00	COLLEGE AVENUE	521	-	1	-	1	-	-	-	-	1	-	-
DR-05	58+00	TO	64+00	COLLEGE AVENUE	1,014	-	7	1	1	-	8	1	-	5	-	-
DR-06	64+00	TO	68+53	COLLEGE AVENUE	454	1	1	16	-	-	2	-	-	-	-	-
DR-07	0+60	TO	2+00	SEMINARY STREET SOUTH	197	-	2	4	1	-	4	-	1	2	-	-
DR-08	11+00	TO	13+92	SEMINARY STREET NORTH	566	-	2	-	-	-	1	-	-	1	-	-
DR-09				KENT CREEK	-	-	-	-	-	-	-	-	-	-	-	-
WATER-02				BUCHANAN STREET	331	-	1	2	-	-	3	1	-	-	-	2
TOTALS =					4,126	1	19	25	4	46	29	3	2	11	3	2

9. SCHEDULE OF WATER MAIN RELATED ITEMS

SHEET	STATION	TO	STATION	ALIGNMENT	DUCTILE IRON WATER MAIN FITTINGS 8" 22.5 DEG BEND	D.I. W.M. FITTINGS, MECHANICAL JOINT 8"X6" HYDRANT TEE	HDP PIPE 8"	FIRE HYDRANT WITH 6" VALVE AND VALVE BOX	CUT AND CAP EXIST. 4" W.M.	CUT AND CAP EXIST. 6" W.M.	CUT AND CAP EXIST. 8" W.M.	CUT AND CAP EXIST. 10" W.M.	CONNECTION TO EXIST W.M. 4"	CONNECTION TO EXIST W.M. 6"	CONNECTION TO EXIST W.M. 8"	CONNECTION TO EXIST W.M. 10"	D.I. W.M. FITTING- 8"X4" REDUCER	D.I. W.M. FITTING- 10"X6" TEE	D.I. W.M. FITTINGS TEE 8"X4"
					(EACH)	(EACH)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
DR-01	34+00	TO	40+00	MORGAN STREET	-	1	100	1	-	1	-	3	-	1	-	-	-	-	-
DR-02	40+00	TO	46+00	MORGAN STREET	-	1	-	2	-	-	-	-	-	-	1	-	-	-	-
DR-03	46+00	TO	52+00	MORGAN STREET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DR-04	52+00	TO	58+00	COLLEGE AVENUE	2	2	-	2	-	-	-	2	-	-	-	1	-	-	-
DR-05	58+00	TO	64+00	COLLEGE AVENUE	2	3	-	3	2	1	-	-	2	1	-	-	2	-	-
DR-06	64+00	TO	68+53	COLLEGE AVENUE	-	-	-	-	-	3	-	1	-	-	-	-	-	3	1
DR-07	0+60	TO	2+00	SEMINARY STREET SOUTH	1	1	-	1	1	1	-	-	1	-	-	-	-	-	-
DR-08	11+00	TO	13+92	SEMINARY STREET NORTH	-	1	-	1	1	-	-	-	-	-	2	-	-	-	-
DR-09				KENT CREEK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WATER-02				BUCHANAN STREET	-	1	-	1	-	5	-	-	-	1	-	-	-	-	-
TOTALS =					5	10	100	10	6	11	2	6	4	4	4	6	3	3	1

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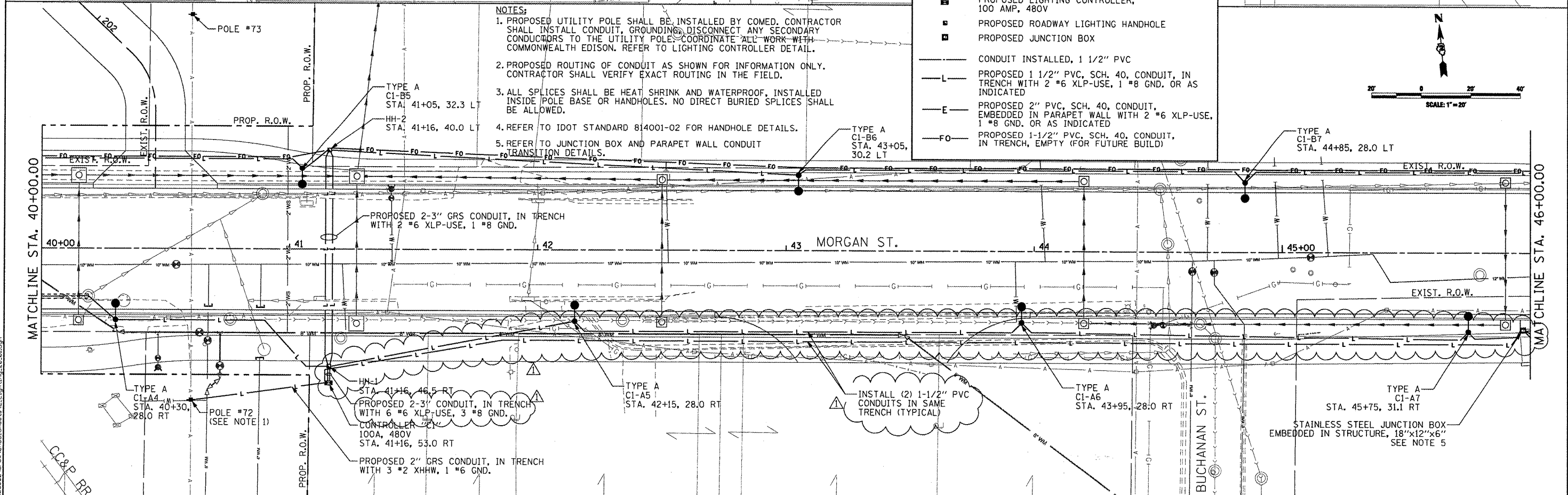
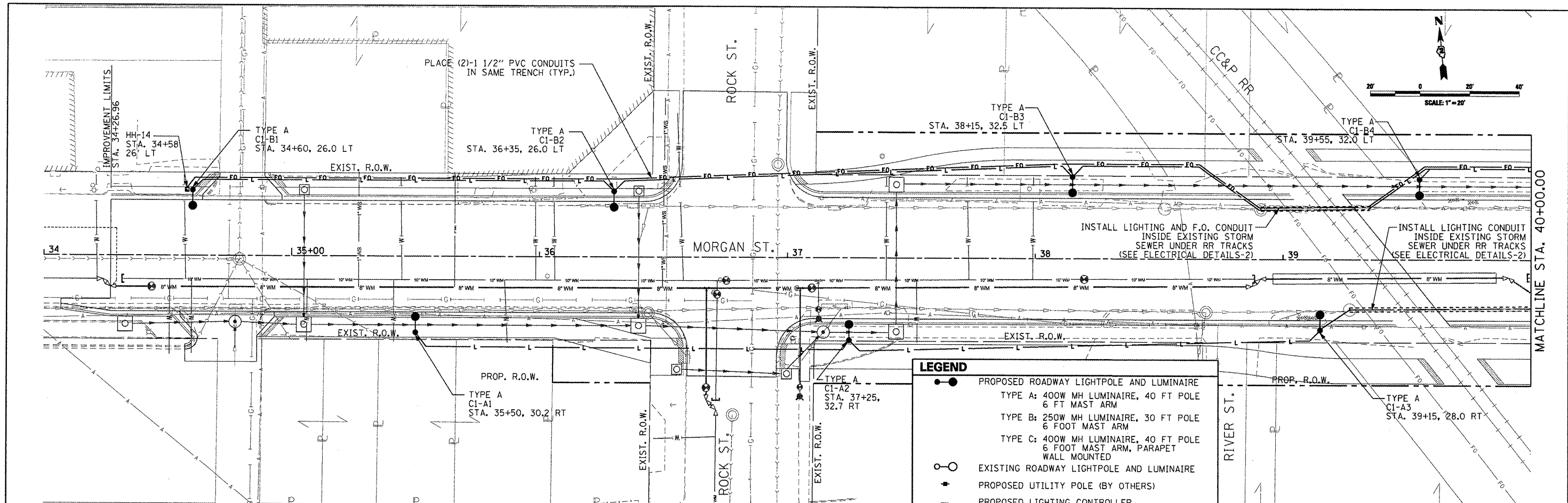


USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - ADDENDUM 1
PLOT SCALE = 48,0000' / IN.	CHECKED - SJP	REVISED -
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4-25-11
CITY OF ROCKFORD
MORGAN STREET BRIDGE

SCHEDULE OF QUANTITIES		
SCALE: N.T.S.	SHEET NO. 4 OF 5 SHEETS	STA. TO STA.

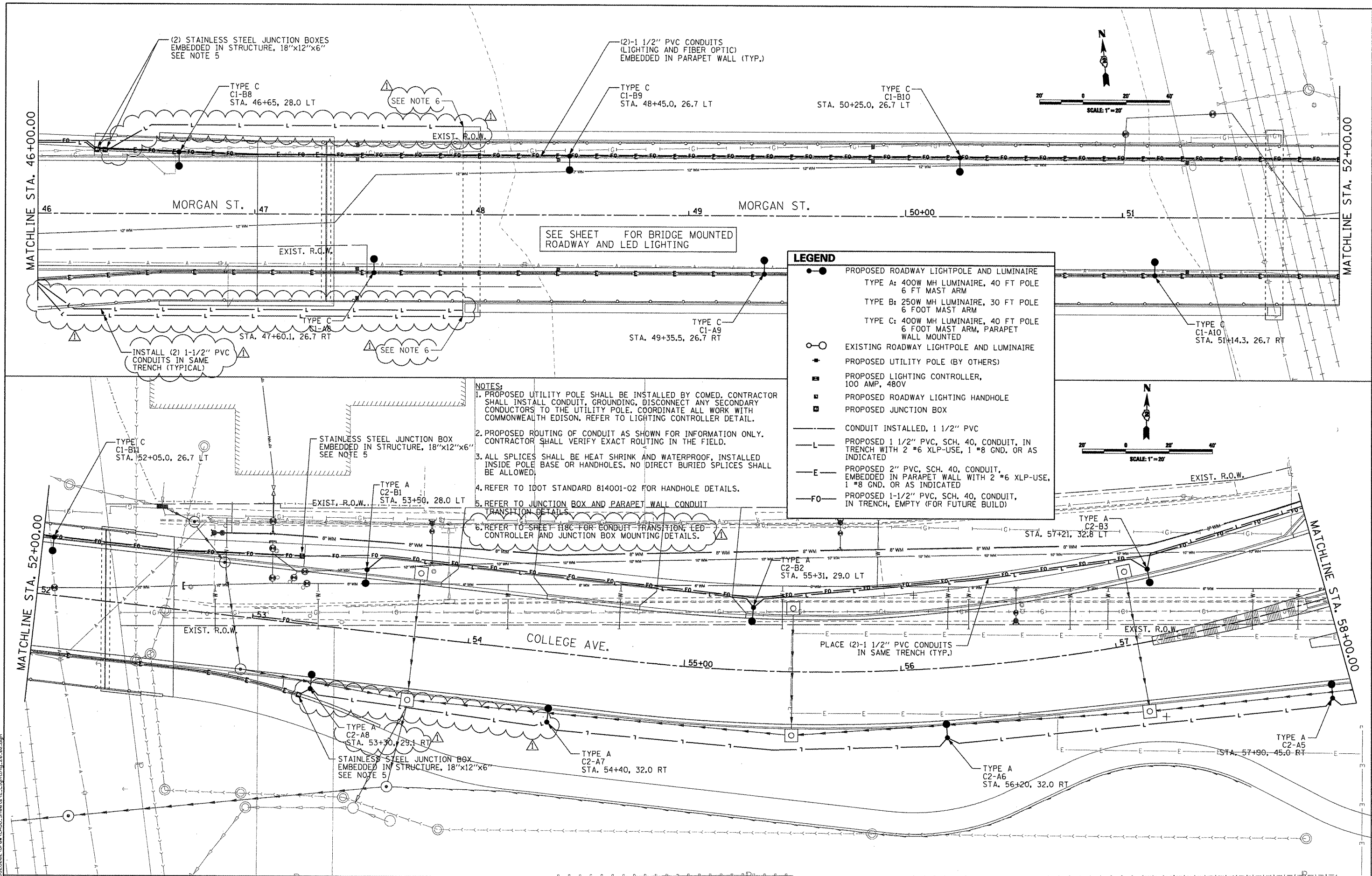
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	19
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-50991651				



- NOTES:**
1. PROPOSED UTILITY POLE SHALL BE INSTALLED BY COMED. CONTRACTOR SHALL INSTALL CONDUIT, GROUNDING, DISCONNECT ANY SECONDARY CONDUCTORS TO THE UTILITY POLE. COORDINATE ALL WORK WITH COMMONWEALTH EDISON. REFER TO LIGHTING CONTROLLER DETAIL.
 2. PROPOSED ROUTING OF CONDUIT AS SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY EXACT ROUTING IN THE FIELD.
 3. ALL SPLICES SHALL BE HEAT SHRINK AND WATERPROOF. INSTALLED INSIDE POLE BASE OR HANDHOLES. NO DIRECT BURIED SPLICES SHALL BE ALLOWED.
 4. REFER TO IDOT STANDARD 814001-02 FOR HANDHOLE DETAILS.
 5. REFER TO JUNCTION BOX AND PARAPET WALL CONDUIT TRANSITION DETAILS.

- LEGEND**
- PROPOSED ROADWAY LIGHTPOLE AND LUMINAIRE
 - TYPE A: 400W MH LUMINAIRE, 40 FT POLE 6 FT MAST ARM
 - TYPE B: 250W MH LUMINAIRE, 30 FT POLE 6 FOOT MAST ARM
 - TYPE C: 400W MH LUMINAIRE, 40 FT POLE 6 FOOT MAST ARM, PARAPET WALL MOUNTED
 - EXISTING ROADWAY LIGHTPOLE AND LUMINAIRE
 - ⊕ PROPOSED UTILITY POLE (BY OTHERS)
 - PROPOSED LIGHTING CONTROLLER, 100 AMP, 480V
 - PROPOSED ROADWAY LIGHTING HANDHOLE
 - PROPOSED JUNCTION BOX
 - CONDUIT INSTALLED, 1 1/2\" PVC
 - L- PROPOSED 1 1/2\" PVC, SCH. 40, CONDUIT, IN TRENCH WITH 2 #6 XLP-USE, 1 #8 GND. OR AS INDICATED
 - E- PROPOSED 2\" PVC, SCH. 40, CONDUIT, EMBEDDED IN PARAPET WALL WITH 2 #6 XLP-USE, 1 #8 GND. OR AS INDICATED
 - FO- PROPOSED 1-1/2\" PVC, SCH. 40, CONDUIT, IN TRENCH, EMPTY (FOR FUTURE BUILD)

<p>CMT CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 04-000613</p>	USER NAME - Steve Prange	DESIGNED - SJP / MNB	REVISED - ADDENDUM 1	<p>4-25-11</p> <p>CITY OF ROCKFORD MORGAN STREET BRIDGE</p> <p>ROADWAY LIGHTING PLAN MORGAN STREET / COLLEGE AVENUE</p> <p>SCALE: 1\" = 20\" SHEET NO. 1 OF 4 SHEETS STA. 34+00 TO STA. 46+00</p>	F.A. RTE. - 5077	SECTION - 99-00493-00-BR	COUNTY - WINNEBAGO	TOTAL SHEETS - 253	SHEET NO. - 115
	PLOT SCALE - 40.0000 / IN.	CHECKED - SJP	REVISED -		CONTRACT NO. - 85529				
	PLOT DATE - 02/04/11	DATE - 02/04/2011	REVISED -		FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-5099(65)				



NOTES:

1. PROPOSED UTILITY POLE SHALL BE INSTALLED BY COMED. CONTRACTOR SHALL INSTALL CONDUIT, GROUNDING, DISCONNECT ANY SECONDARY CONDUCTORS TO THE UTILITY POLE. COORDINATE ALL WORK WITH COMMONWEALTH EDISON. REFER TO LIGHTING CONTROLLER DETAIL.
2. PROPOSED ROUTING OF CONDUIT AS SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY EXACT ROUTING IN THE FIELD.
3. ALL SPLICES SHALL BE HEAT SHRINK AND WATERPROOF, INSTALLED INSIDE POLE BASE OR HANDHOLES. NO DIRECT BURIED SPLICES SHALL BE ALLOWED.
4. REFER TO IDOT STANDARD 814001-02 FOR HANDHOLE DETAILS.
5. REFER TO JUNCTION BOX AND PARAPET WALL CONDUIT TRANSITION DETAILS.
6. REFER TO SHEET 118C FOR CONDUIT TRANSITION, LED CONTROLLER AND JUNCTION BOX MOUNTING DETAILS.

LEGEND

- PROPOSED ROADWAY LIGHTPOLE AND LUMINAIRE
- EXISTING ROADWAY LIGHTPOLE AND LUMINAIRE
- ⊕ PROPOSED UTILITY POLE (BY OTHERS)
- PROPOSED LIGHTING CONTROLLER, 100 AMP, 480V
- PROPOSED ROADWAY LIGHTING HANDHOLE
- ▣ PROPOSED JUNCTION BOX
- CONDUIT INSTALLED, 1 1/2" PVC
- L- PROPOSED 1 1/2" PVC, SCH. 40, CONDUIT, IN TRENCH WITH 2 #6 XLP-USE, 1 #8 GND. OR AS INDICATED
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- FO- PROPOSED 1-1/2" PVC, SCH. 40, CONDUIT, IN TRENCH, EMPTY (FOR FUTURE BUILD)

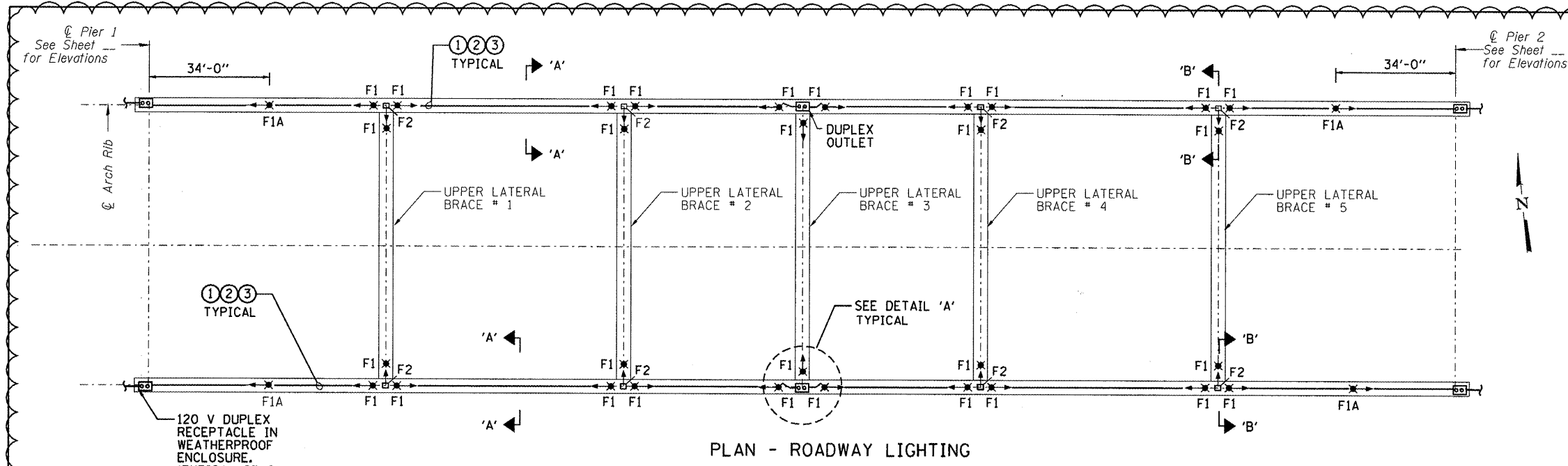


USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - ADDENDUM 1
DRAWN - ERD	REVISOR -	DATE - 02/04/2011
CHECKED - SJP	REVISOR -	
PLOT DATE = 02/04/11	REVISOR -	

4-25-11
CITY OF ROCKFORD
MORGAN STREET BRIDGE

ROADWAY LIGHTING PLAN
MORGAN STREET / COLLEGE AVENUE
 SCALE: 1"=20' SHEET NO. 2 OF 4 SHEETS STA. 46+00 TO STA. 58+00

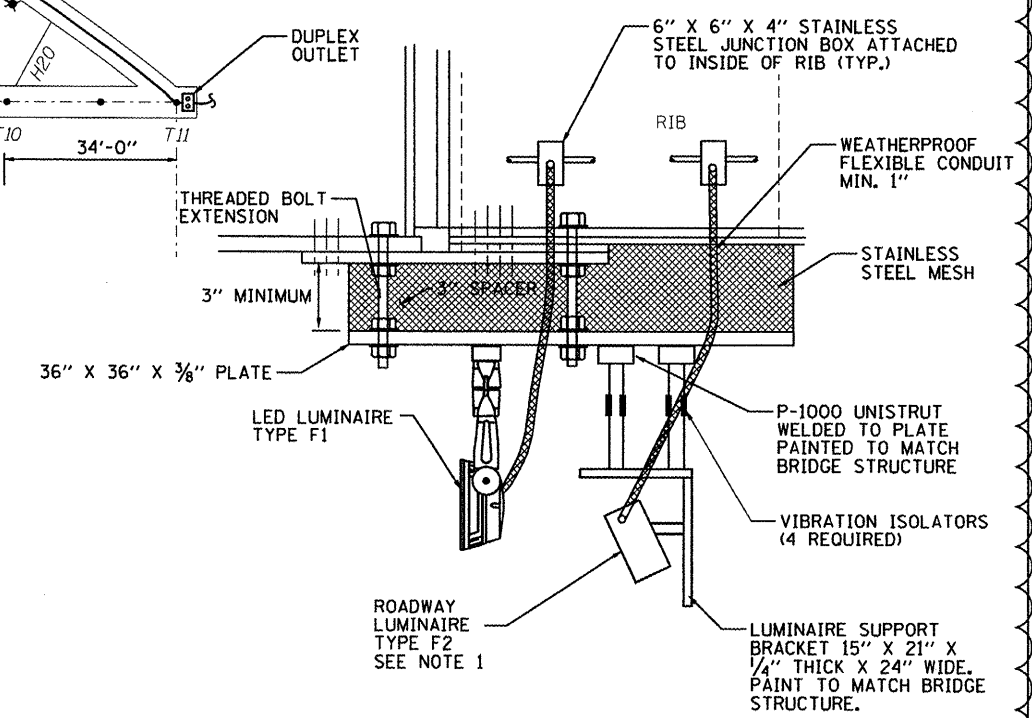
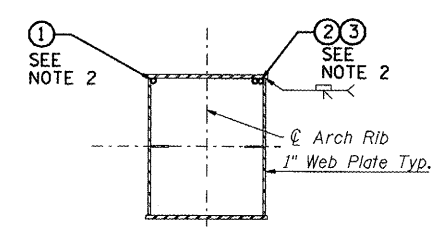
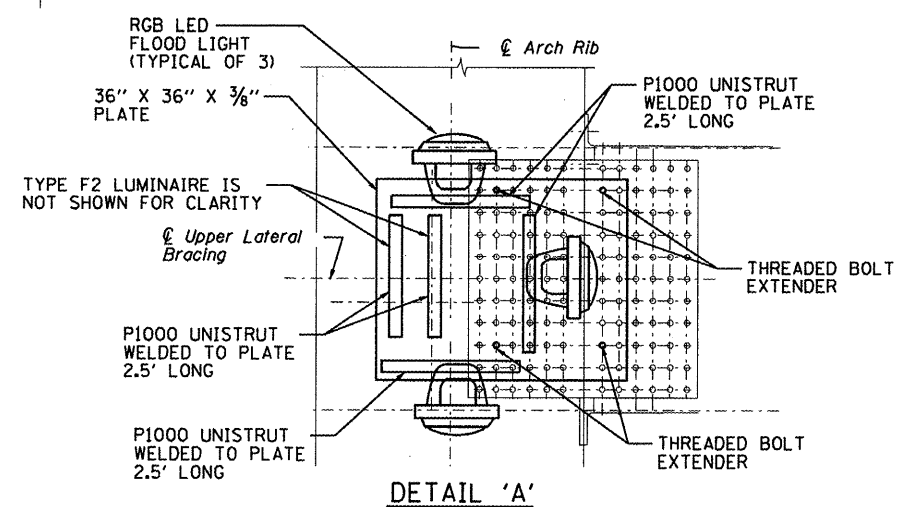
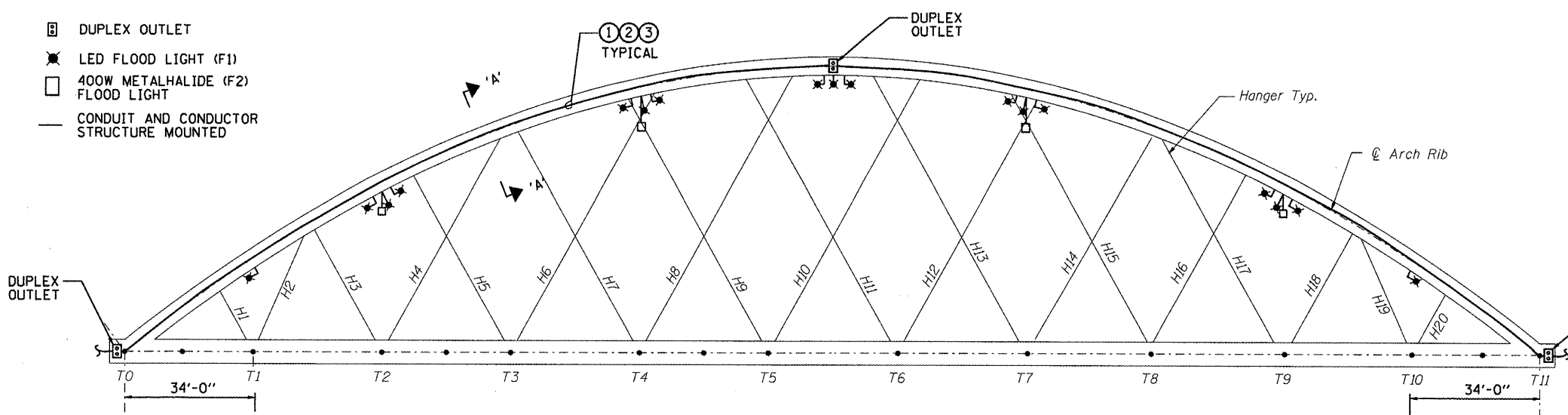
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	116
FED. ROAD DIST. NO. 2 ILLINOIS			CONTRACT NO. 85529	
FED. AID PROJECT BRM-509965				



- NOTES:
1. TYPE F2 LUMINAIRES ARE NOT REQUIRED FOR ULB #3
 2. ATTACH CONDUIT AND J-BOXES INSIDE RIB WITH CONDUIT CLAMPS AT EVERY 5'-0" INTERVALS.
 3. REFER TO SHEET 118C FOR CONDUIT ENTRANCE DETAILS AND PIER ELEVATIONS
 4. REFER TO SHEET 118B FOR LED LIGHTING SCHEMATIC.

CONDUIT LEGEND	
①	1" GRS CONDUIT WITH 2 #10 XLP-USE, 1#10 GND. (OUTLETS)
②	1-1/2" GRS CONDUIT WITH 2 #6 XLP-USE, 1#8 GND. (ROADWAY LIGHTING)
③	1" GRS CONDUIT WITH 2 #10 XLP-USE 1#10 GND. (LED LIGHTING)

- LEGEND
- DUPLEX OUTLET
 - ★ LED FLOOD LIGHT (F1)
 - 400W METALHALIDE (F2) FLOOD LIGHT
 - CONDUIT AND CONDUCTOR STRUCTURE MOUNTED



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CMT CRAWFORD, MURPHY & TALLY, INC. CONSULTING ENGINEERS License No. 184-000613	USER NAME = Steve Prange DESIGNED - SJP / MNB DRAWN - ERD CHECKED - SJP DATE - 02/04/2011	REVISED - ADDENDUM 1 REVISED - REVISED - REVISED -	9-25-11 CITY OF ROCKFORD MORGAN STREET BRIDGE	SUPPLEMENTAL LIGHTING DETAILS - I SCALE: N/A SHEET NO. 1 OF 3 SHEETS STA. N/A TO STA. N/A	F.A. RTE. 5077 SECTION 99-00493-00-BR COUNTY WINNEBAGO TOTAL SHEETS 253 SHEET NO. 118A CONTRACT NO. 85529 FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-5091651
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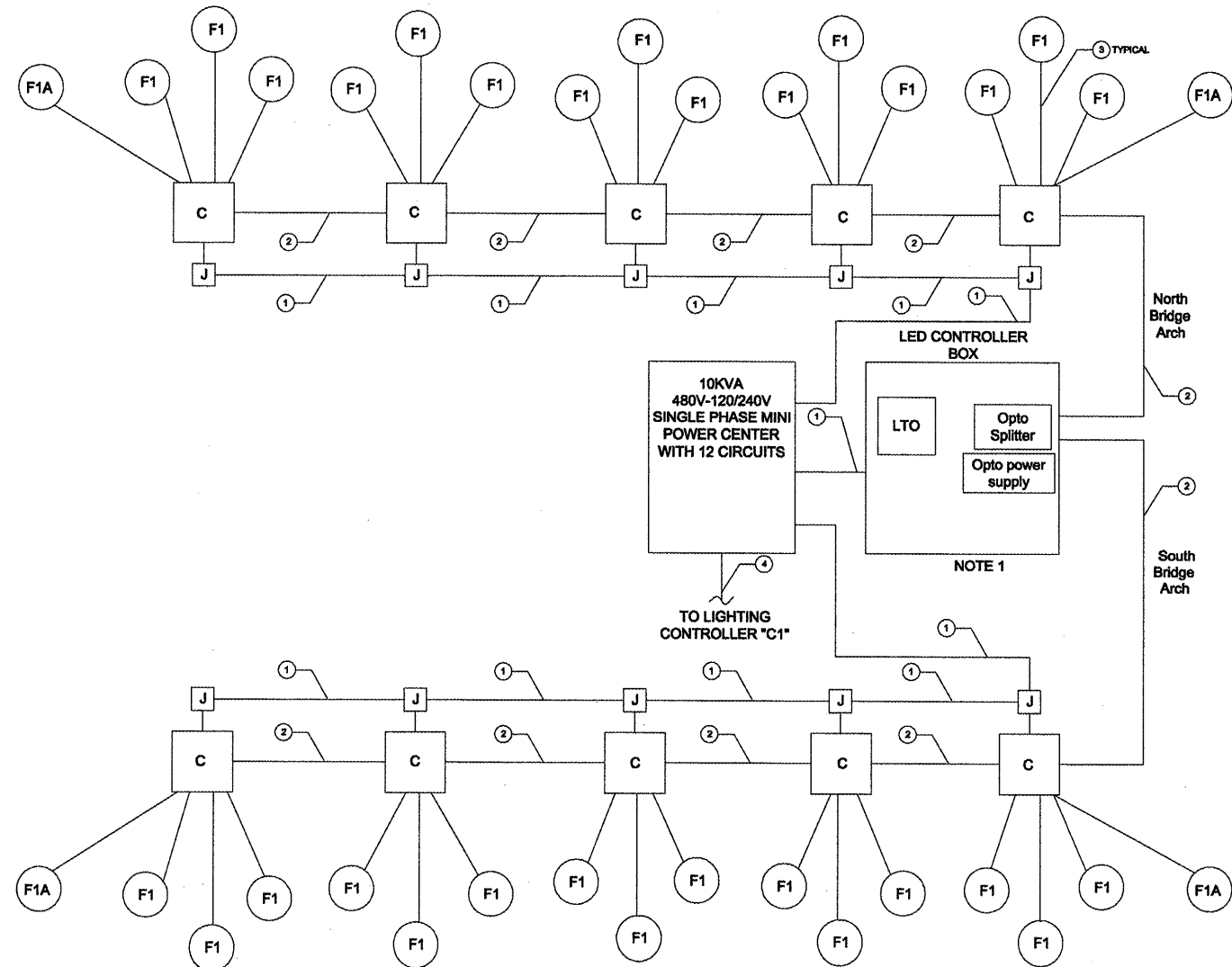
MINI-POWER CENTER SCHEDULE

PANEL DESIGNATION: MPC-1 BOND NEUTRAL AND GROUND BAR: YES POLE: 12
 LOCATION: WEST SIDE MORGAN ST. BRIDGE NEUTRAL BUS RATING: 100% SHORT CIRCUIT RATING: 10KA
 MFR & TYPE: C-H OR SQUARE "D" SERVICE ENTRANCE RATED: NO SERIES OR FULLY RATED: SERIES
 NEMA 3R TVSS & DISCONNECT REQUIRED: NO

VOLTS: 120/240 MOUNTING: SURFACE BUS RATING (AMPS): 100
 PHASE: 1 ENCL RATING: NEMA 3R BUS: COPPER OR ALUMINUM
 WIRE: 3 XFMR CAPACITY: 10 kVA MAIN CIRCUIT BREAKER: PRI 30/2; SEC 50/2

CKT NO.	LOAD	BREAKER SIZE	LOAD AMPS	USAGE FACTOR	PHASE AMPS		POLE NO.	PHASE AMPS		USAGE FACTOR	LOAD AMPS	BREAKER SIZE	LOAD	CKT NO.
					A	B		A	B					
1	LED LIGHTING NORTH SIDE	20/1	8	0.5	8		1	2	8	0.5	8	20/1	LED LIGHTING SOUTH SIDE	2
3	20A RECEPTACLE OUTLET NORTH SIDE	20/1	6	0.5		6	3	4		6	0.5	6	20A RECEPTACLE OUTLET SOUTH SIDE	4
5	SPARE	20/1	0	0			5	6		5	0.5	5	LED CONTROLLER	6
7	SPARE	20/1	0	0			7	8		0	8	20/1	SPARE	8
9	SPARE	20/1	0	0			9	10		0	0	20/1	SPARE	10
11	SPARE	20/1	0	0			11	12		0	0	20/1	SPARE	12
SECTION TOTAL:					6			13	6					

MINIMUM MAIN CIRCUIT BREAKER AMPS	17	PHASE TOTAL AMPS:	A: 21	B: 12	TOTAL USAGE LOAD:	3960 VA
		PHASE TOTAL VA:	A: 2520	B: 1440	MIN. XFMR VA:	4950 VA



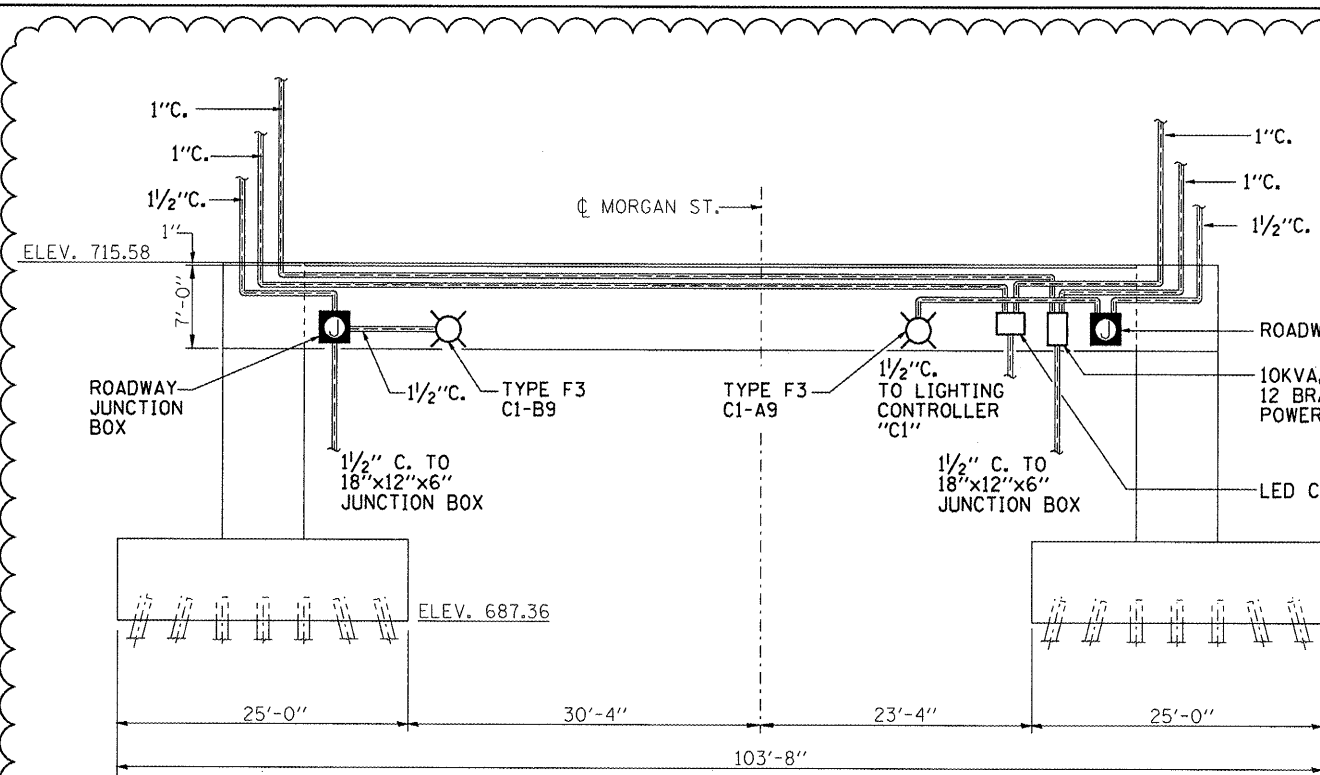
NOTES:

- NOTES:
- 36"X24"X12"D NEMA 3R ENCLOSURE WITH EQUIPMENT MOUNTING PLATE, DIN RAILS AND HEATER BY HOFFMAN OR HAMMOND MANUFACTURING TO INCLUDE LED, OPTO SPLITTER AND HEATER.

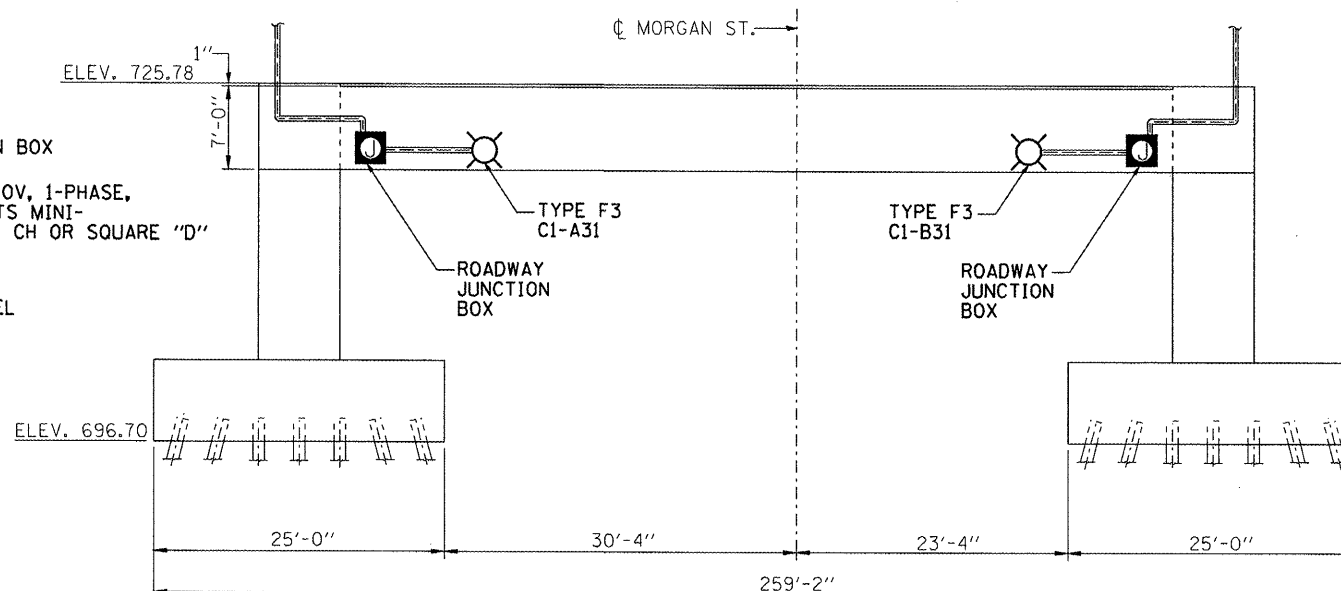
LEGEND	
LABEL	DESCRIPTION
C	CBOX IN STAR CONFIGURATION
F1	LBL RGB LED 44W LUMINAIRE WITH 10' LEADS
F1A	LBL RGB LED 44W LUMINAIRE WITH 6 DEG BEAM W/ 30' LEADS
J	6"X6"X4" STAINLESS STEEL JUNCTION BOX

CONDUIT/WIRING SCHEDULE	
LABEL	DESCRIPTION
①	2 #10 XLP-USE, 1 #10 GND. IN 1" GRS CONDUIT
②	DATA CABLE DMX BELDEN 9729 IN 1" GRS CONDUIT
③	LED FIXTURE LEAD BY LED FIXTURE MANUFACTURER
④	2 #6 XLP-USE, 1 #8 GND. IN 1 1/2" PVC GRS CONDUIT

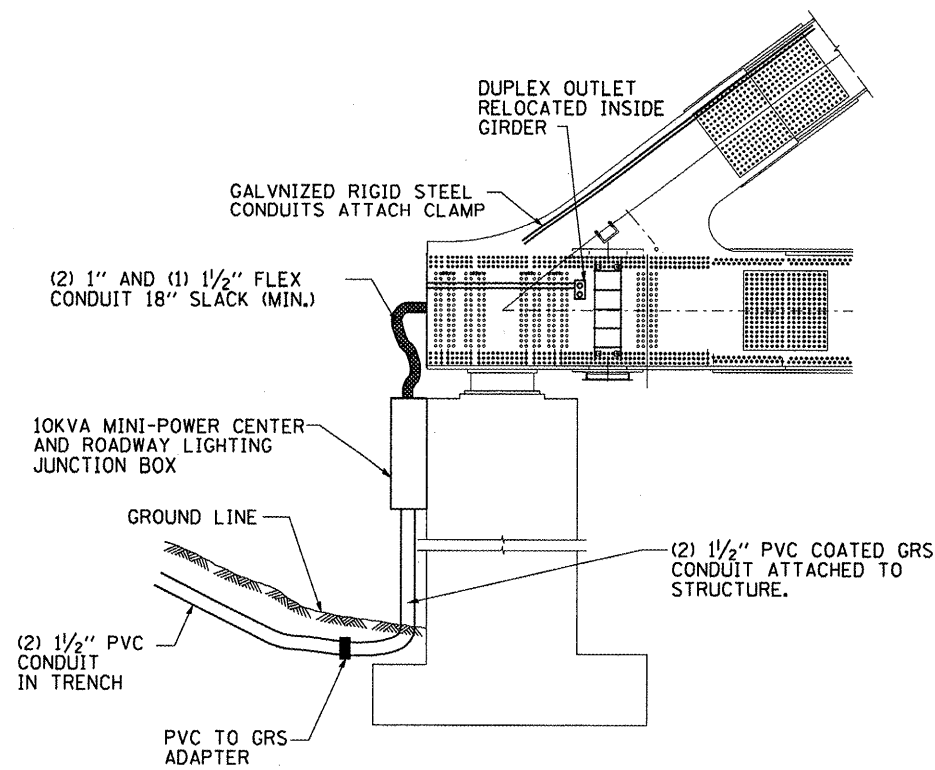
LED LIGHTING SCHEMATIC



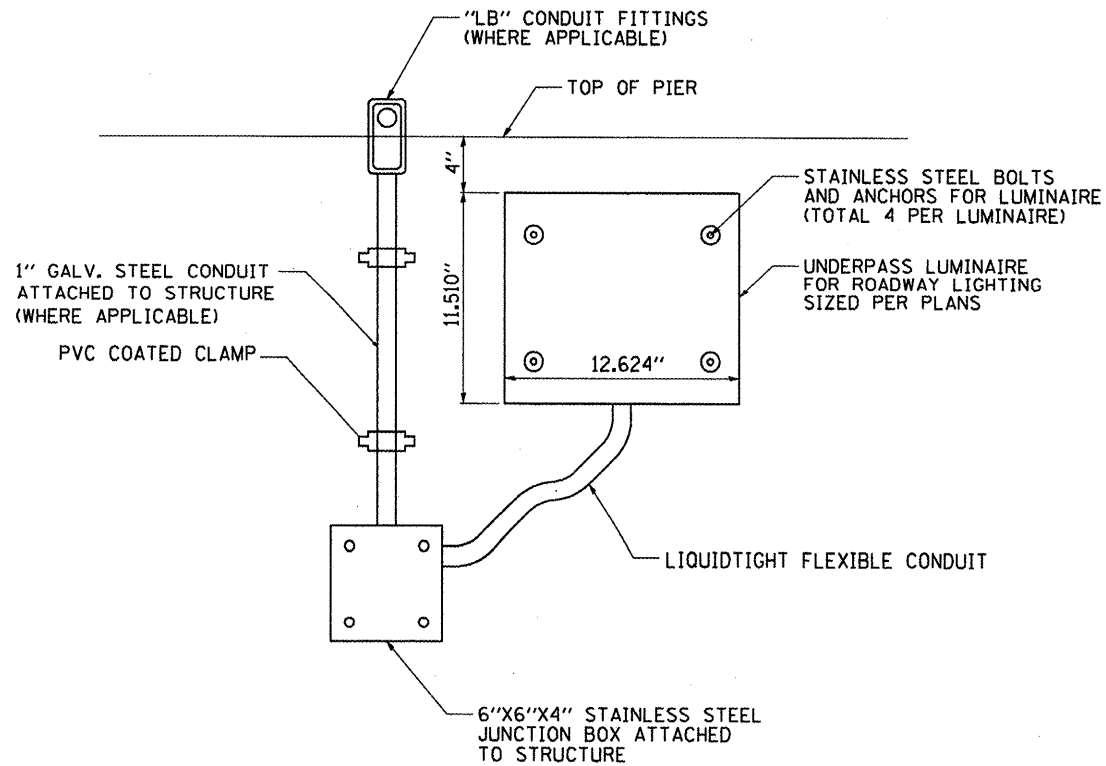
ELEVATION PIER 1
NOT TO SCALE



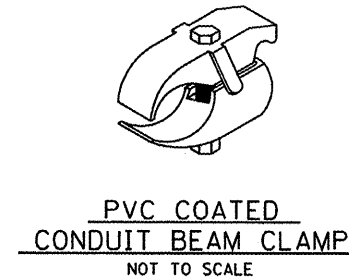
ELEVATION PIER 2
NOT TO SCALE



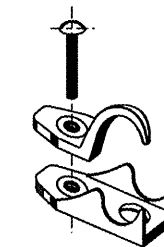
DETAIL 'B'
NOT TO SCALE



TYPICAL SURFACE MOUNTED UNDERPASS LUMINAIRE AND JUNCTION BOX MOUNTING DETAIL
NOT TO SCALE

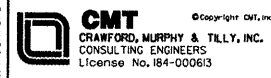


PVC COATED CONDUIT BEAM CLAMP
NOT TO SCALE



PVC COATED CONDUIT CLAMP
NOT TO SCALE

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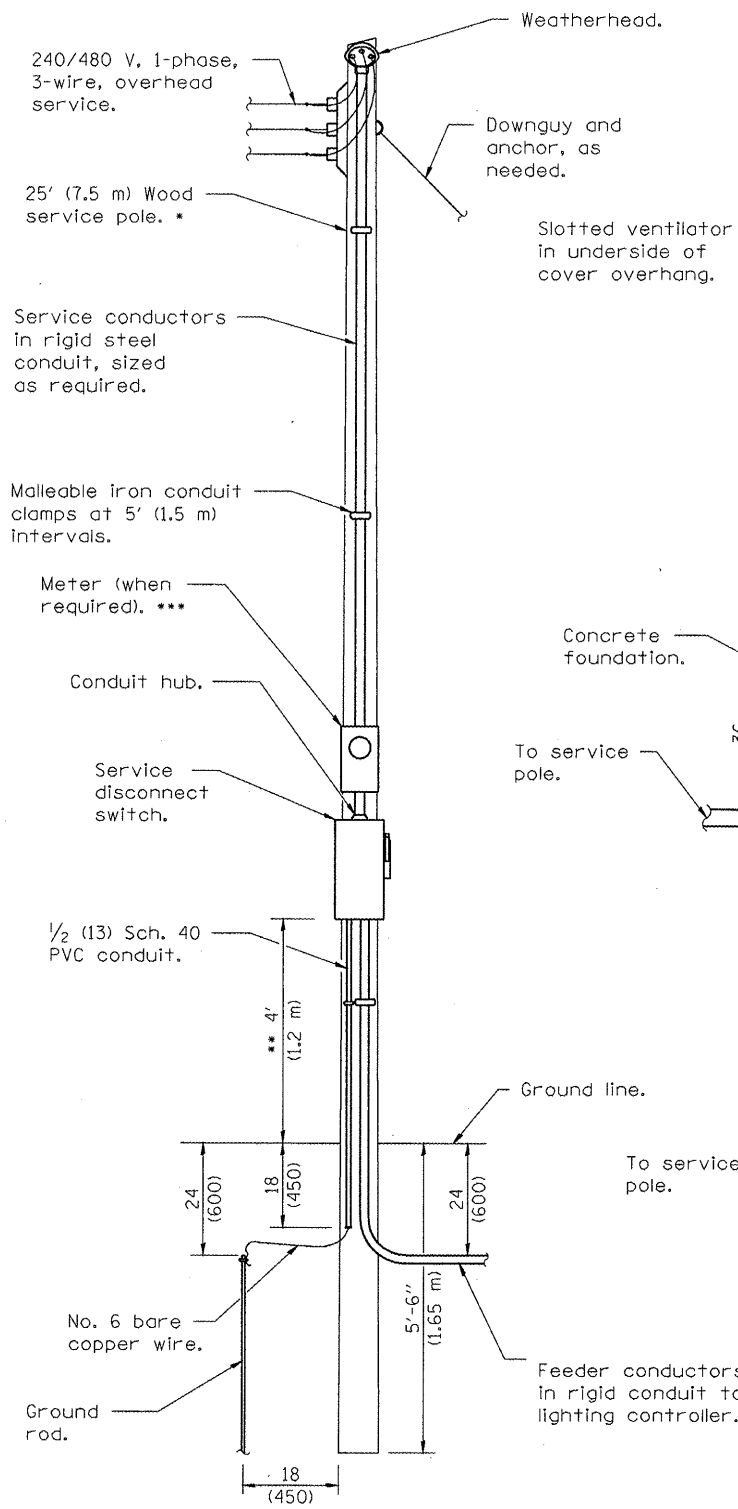


USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - ADDENDUM 1
PLOT SCALE = 40.0000' / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

4-25-11
CITY OF ROCKFORD
MORGAN STREET BRIDGE

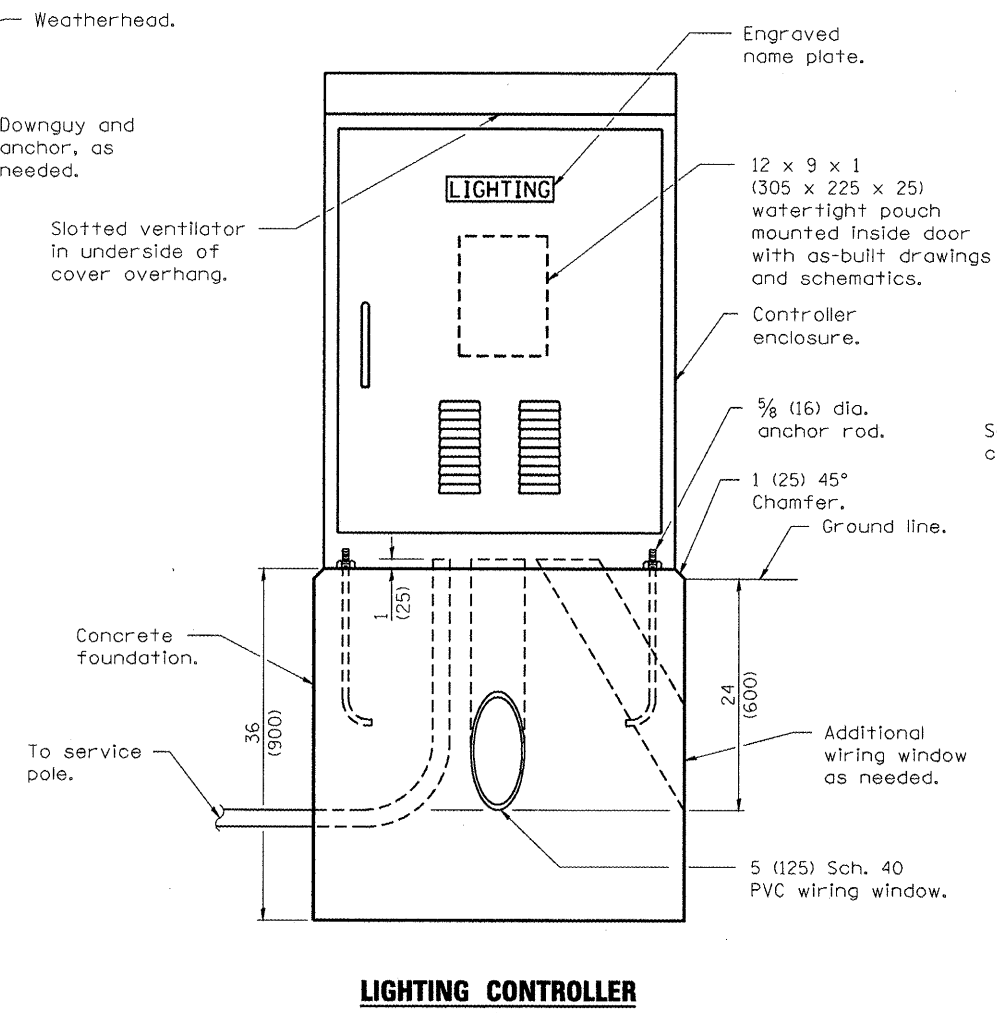
SUPPLEMENTAL LIGHTING DETAILS - III
SCALE: N/A SHEET NO. 3 OF 3 SHEETS STA. N/A TO STA. N/A

F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 118C
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965				

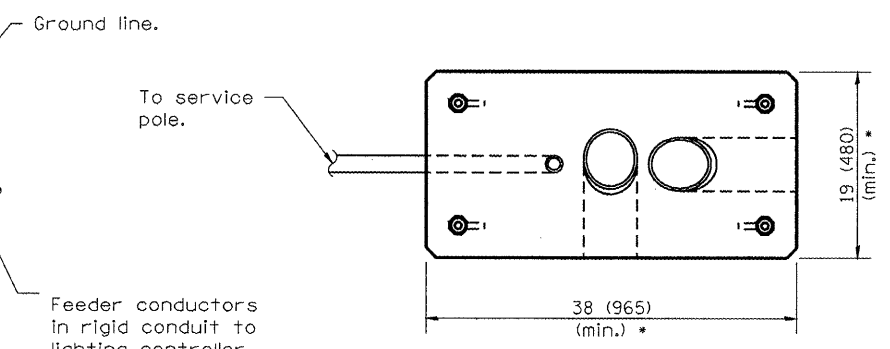


ELECTRIC SERVICE INSTALLATION

- Size larger as needed.
- Or as directed by Utility Company.
- When cold sequencing is required, provide a meter disconnect switch as directed by Utility Company.



LIGHTING CONTROLLER

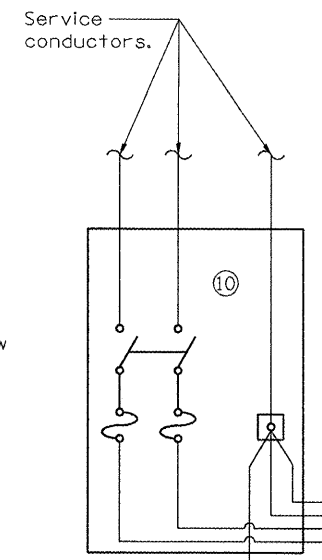


FOUNDATION (PLAN)
(Work pad not shown.)

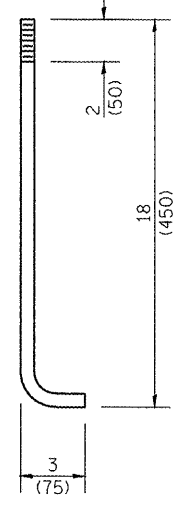
Controller enclosure, minimum dimensions: 50H x 36W x 17D • (1270 x 915 x 430)

Insulated mounting board.

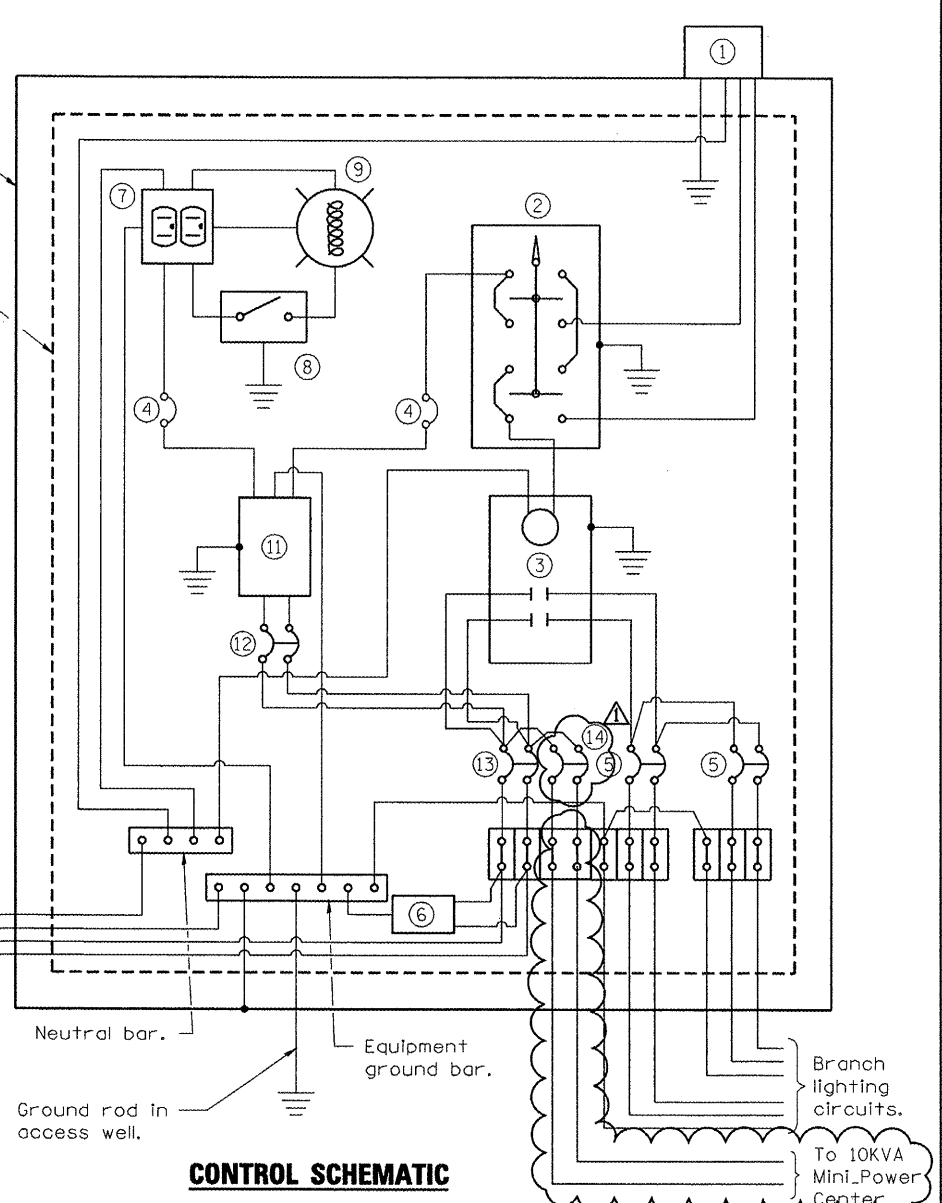
Service conductors.



Feeder conductors, sized as required.



ANCHOR ROD DETAIL



CONTROL SCHEMATIC

- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 100 amp*, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp*, 2-pole circuit breaker (two spares required but not shown).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ Incandescent luminaire, enclosed and gasketed with 100 watt lamp.
- ⑩ Service disconnect switch - 2-pole, 3-wire, 100 amp*, fused at 100 amp*, solid neutral in NEMA 4X enclosure having lockable external handle.
- ⑪ Transformer - 1KVA*, 480V primary, 120/240V secondary, single-phase, 60Hz.
- ⑫ 15 amp, 2-pole circuit breaker.
- ⑬ 100 amp*, 2-pole circuit breaker.
- ⑭ 30 amp, 2-pole circuit breaker.

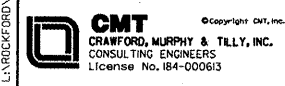
* Size larger as needed.

All dimensions are in inches (millimeters) unless otherwise shown.

**LIGHTING CONTROLLER
BASE MOUNTED, 480V**

STANDARD 825026-01

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USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - ADDENDUM 1
PLOT SCALE = 48,0000 ' / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

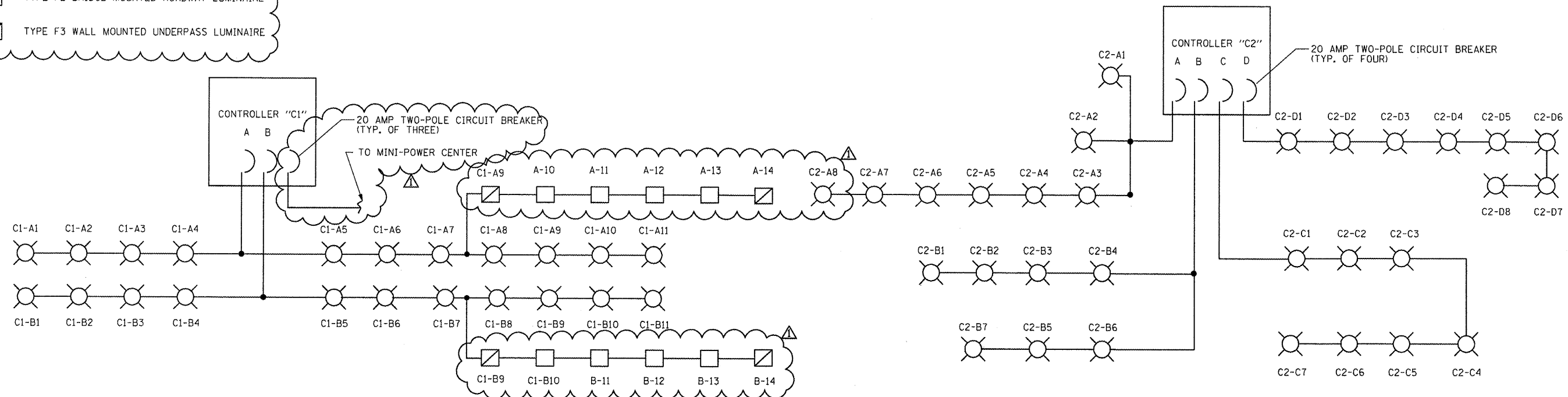
4-25-11
**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

ELECTRICAL DETAILS - 1	
SCALE: N/A	SHEET NO. 1 OF 8 SHEETS STA. TO STA.

F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 119
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509965				

LEGEND:

- ⊗ TYPE A
- ⊗ TYPE B POLE MOUNTED LUMINAIRE
- ⊗ TYPE C
- TYPE F2 BRIDGE MOUNTED ROADWAY LUMINAIRE
- ▣ TYPE F3 WALL MOUNTED UNDERPASS LUMINAIRE

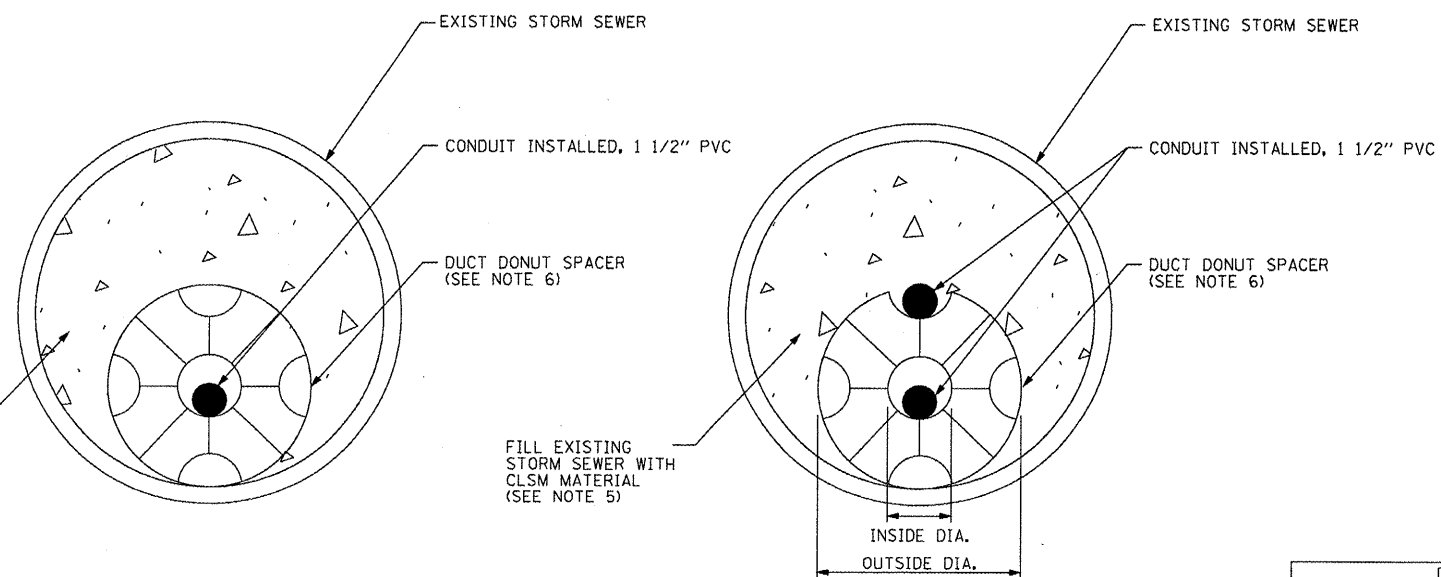


ROADWAY LIGHTING CONTROLLER "C1" ONE-LINE

ROADWAY LIGHTING CONTROLLER "C2" ONE-LINE

CONTROLLER "C1" LOAD SCHEDULE		
CIRCUIT #	AMPERES	WATTAGE
A	11.45	3300
B	13.8	4480

CONTROLLER "C2" LOAD SCHEDULE		
CIRCUIT #	AMPERES	WATTAGE
A	8.33	3200
B	6.25	2400
C	5.33	2050
D	6.77	2600



SINGLE CONDUIT ASSEMBLY

DOUBLE CONDUIT ASSEMBLY

CONDUIT INSTALLED, 1 1/2" PVC WITH SPACERS

NOTES:

- USE ONE DUCT SPACER FOR EVERY 5 FEET OF EXISTING STORM SEWER CASING.
- INSTALL DUCT SPACERS PERPENDICULAR TO CONDUITS TO REDUCE THE TENDENCY OF CONDUITS TO CORKSCREW.
- CONTRACTOR MUST COORDINATE WITH DUCT SPACER MANUFACTURER ON INSTALLATION MEANS TO PREVENT THE DUCTBANK FROM ROTATING DURING INSTALLATION. DUCT SPACERS MUST BE HELD IN PLACE WITH NON-METALLIC STRAPS AND HOLD DOWN BARS.
- THE DUCTBANK MUST BE HELD IN POSITION AT BOTH ENDS TO ACCOMODATE POSSIBLE UNEVEN THRUST LOADS THAT MAY BE GENERATED DURING THE GROUTING OPERATION.
- THE COST FOR FILLING THE EXISTING STORM SEWER WITH CLSM SHALL BE INCLUDED IN THE CONTRACT UNIT COST FOR CONDUIT INSTALLED, 1 1/2" PVC.
- THE COST FOR DUCT DONUT SPACERS AND ANY ASSOCIATED STRAPS USED TO HOLD THE CONDUIT IN PLACE SHALL BE INCLUDED IN THE CONTRACT UNIT COST FOR CONDUIT INSTALLED, 1 1/2" PVC.

DUCT DONUT SPACER SPECIFICATIONS			
DUCT SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS
1 1/2"	2 3/4"	8 3/4"	1 1/4"

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USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - ADDENDUM 1
PLOT SCALE = 40,0000' / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

4-25-11
CITY OF ROCKFORD
MORGAN STREET BRIDGE

ELECTRICAL DETAILS - 2	
SCALE: N/A	SHEET NO. 2 OF 8 SHEETS
STA.	TO STA.

F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 120
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-5099(65)			CONTRACT NO. 85529	

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- S-2 General Data
- S-3 Erection Sequence
- S-4 Deck Pouring Sequence
- S-5 Footing Layout
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- S-7 Deck Elevations - II
- S-8 Deck Elevations - III
- S-9 West Bridge Approach Slab Elevations
- S-10 East Bridge Approach Slab Elevations
- S-11 Deck Plan & Cross Section - I
- S-12 Deck Plan & Cross Section - II
- S-13 Superstructure Details - I
- S-14 Superstructure Details - II
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- S-18 West Bridge Approach Slab Details - II
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- S-61 Stringer Connection Details
- S-62 Lower Lateral Bracing Details
- S-63 Bearing Details - Approach Spans
- S-64 Bearing Details - Arch Span
- S-65 Not Used
- S-66 West Abutment
- S-67 East Abutment
- S-68 Abutment Details
- S-69 MSE Wall Details - I
- S-70 MSE Wall Details - II
- S-71 MSE Wall Details - III
- S-72 MSE Wall Details - IV
- S-73 Pier 1
- S-74 Pier 2

- S-75 Piling Details
- S-76 Bar Splicer Details
- S-77 Boring Log - I
- S-78 Boring Log - II
- S-79 Boring Log - III

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 3, bolts. Bolts $\frac{7}{8}$ in. ϕ in holes $\frac{15}{16}$ in. ϕ , or bolts 1 in. ϕ in holes $1\frac{1}{16}$ in. ϕ unless otherwise noted.
 2. Calculated weight of Structural Steel:
 - a: Arch span - Primary members = 2,588,840
 - b: Approach span - Girder and Cross Members = 290,950
 - c: Arch span - Intermediate floorbeam, Stringer and Lower lateral bracing = 836,430
 - d: Bolts and splices = 543,540
 3. All structural steel shall be AASHTO M 270 Grade 50W. Steel designated as M270 Grade 50W T3, M270 Grade 50W F3 (FCM), or "NTR" shall conform to mandatory supplemental impact/notch toughness properties for Zone 3.
 4. No field welding is permitted except as specified in the contract documents.
 5. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
 6. Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
8. Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
 9. Concrete Sealer shall be applied to all exposed surfaces of the backwalls, bridge seats, and front faces of pile caps of the West and East Abutments.
 10. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior exposed steel surfaces shall be gray, Munsell No. 5B 7/1. The interior surfaces of all box section of the Tied Arch structure shall be primed and painted white. The color of the final finish coat for the exterior and bottom flange of the Approach Span fascia beams shall be Light Grey, Munsell No. N8. The color of the final finish coat for the exterior surfaces of the Tied Arch structure shall be Light Grey, Munsell No. N8. See Special Provision for "Cleaning and Painting New Metal Structures."
 11. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 12. U.N.O. denotes Unless Noted Otherwise.
 13. A sign which reads, "DANGER - CONFINED SPACE - ENTER BY PERMIT ONLY" and meets OSHA Standard 1910.146 shall be permanently affixed (welds not permitted) onto each access opening on the structure. The cost of the sign and attachment hardware shall be included in "Furnishing and Erecting Structural Steel". The sign shall be fabricated from steel plate 7"x10"x0.08" and shall be in accordance with the Standard Specifications.

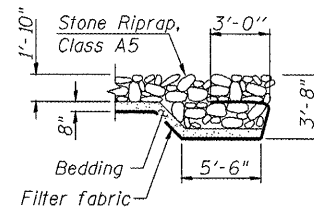


TIED ARCH WARNING SIGN
OSHA Std. 1910.146

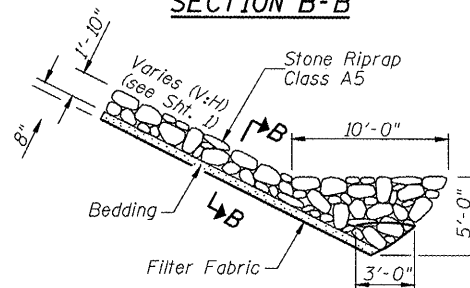
ROCK RIVER
BUILT 20__ BY
CITY OF ROCKFORD
SEC. 99-00493-00-BR
FA RTE 5077 STA. 49+82.50
STR. NO. 101-6108 LOADING HS-25

NAME PLATE

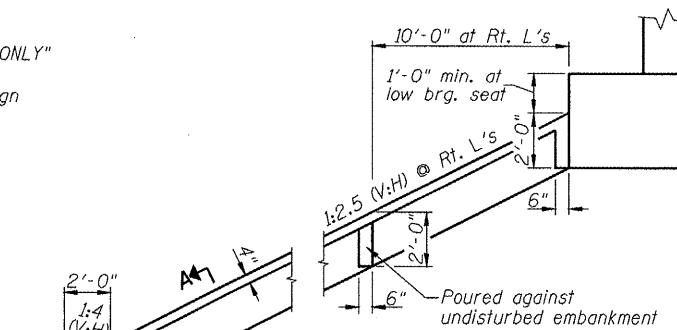
See Std. 515001



SECTION B-B

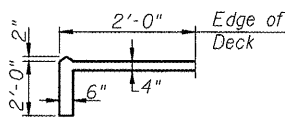


SECTION THRU RIPRAP SLOPEWALL
(Horiz. dim. @ Rt. L's)



SECTION THRU CONCRETE SLOPEWALL
(Horiz. dim. @ Rt. L's)

Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

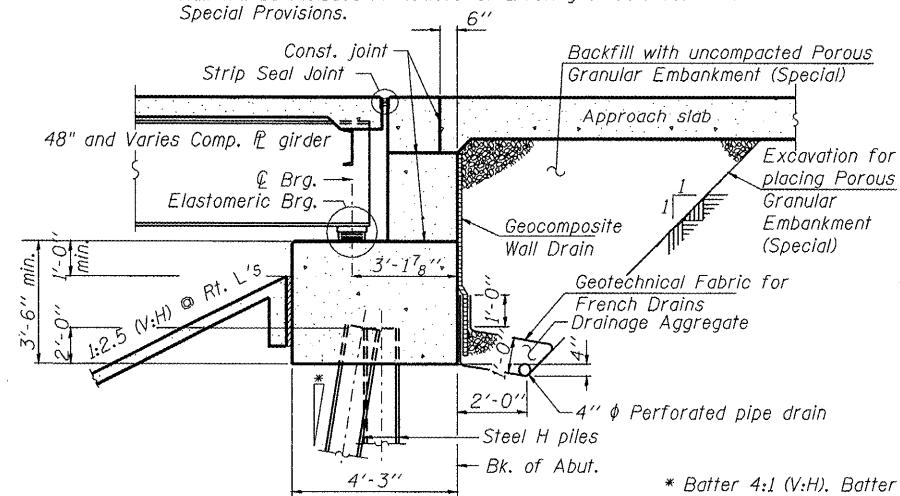


SECTION A-A

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Stone Riprap, Class A5	Sq Yd	-	1,961	1,961
Filter Fabric	Sq Yd	-	2,033	2,033
Gabions	Cu Yd	-	1,450	1,450
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu Yd	-	2,995	2,995
Cofferdam Excavation	Cu Yd	-	1,130	1,130
Cofferdam (Location I)	Each	-	2	2
Concrete Structures	Cu Yd	45.3	1,259.4	1,304.7
Concrete Superstructures	Cu Yd	1,288.7	-	1,288.7
Bridge Deck Grooving	Sq. Yd.	3,088	-	3,088
Seal Coat Concrete	Cu Yd	-	229.1	229.1
Concrete Encasement	Cu Yd	-	6.3	6.3
Form Liner Textured Surface	Sq Ft	-	1,627	1,627
Protective Coat	Sq Yd	5,054	34	5,088
Furnishing and Erecting Structural Steel	L Sum	1	-	1
Stud Shear Connectors	Each	25,881	-	25,881
Reinforcement Bars	Pound	-	1,510	1,510
Reinforcement Bars, Epoxy Coated	Pound	361,560	163,410	524,970
Bar Splicers	Each	-	148	148
Slope Wall 4 Inch	Sq Yd	-	296	296
Furnishing Steel Piles HPI2x53	Foot	-	20,196	20,196
Driving Piles	Foot	-	20,196	20,196
Test Pile Steel HPI2x53	Each	-	4	4
Pile Shoes	Each	-	229	229
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	74	-	74
Finger Plate Expansion Joint, 6 1/2"	Foot	72	-	72
Elastomeric Bearing Assembly, Type I	Each	9	-	9
Elastomeric Bearing Assembly, Type III	Each	9	-	9
Anchor Bolts, 1"	Each	36	-	36
Anchor Bolts, 1 1/2"	Each	16	-	16
Anchor Bolts, 2"	Each	16	-	16
Concrete Sealer	Sq Ft	-	1,778	1,778
Geocomposite Wall Drain	Sq Yd	-	78	78
Anti-Graffiti Protection System	Sq Ft	-	10,921	10,921
High Load Multi-Rotational Bearings, Fixed - 2750k	Each	2	-	2
Aggregate Column Ground Improvement	L Sum	-	1	1
Porous Granular Embankment, Special	Cu Yd	-	153	153
Bicycle Railing, Special	Foot	1,253	-	1,253
Parapet Railing, Special	Foot	1,281	-	1,281
High Load Multi-Rotational Bearings, Guided Expansion - 2800K	Each	2	-	2
Drainage Scuppers, DS-12	Each	12	-	12
Mechanically Stabilized Earth Retaining Wall	Sq Ft	-	5,163	5,163
Pipe Underdrains for Structures 4"	Foot	-	80	80

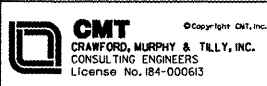
Note: The cost of salvaging the existing Name Plate and Metal Pedestrian Rail will be included in Removal of Existing Structures. See Special Provisions.



SECTION THRU EAST ABUTMENT
(Horiz. dim. @ Rt. L's)

* Batter 4:1 (V:H). Batter alternate piles.

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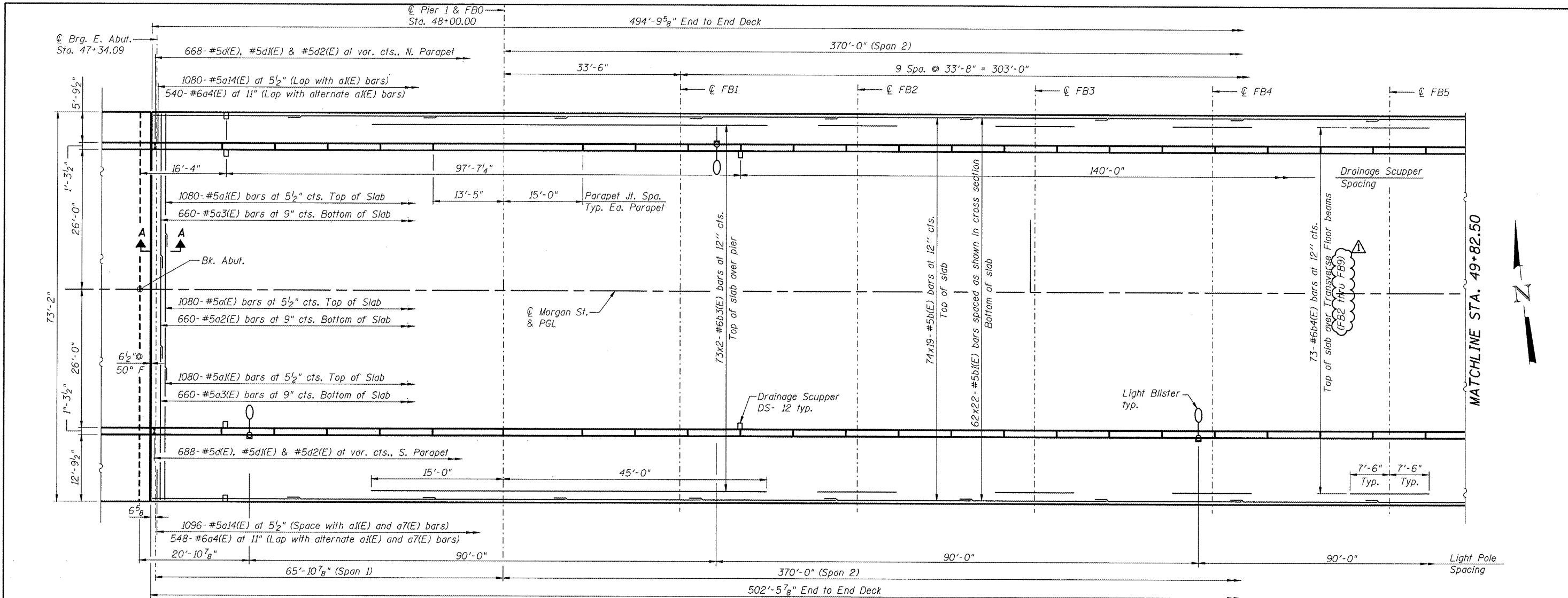
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DRAWN - GLD	REVISED -	
CHECKED - RJK	REVISED -	
DATE - 02/04/2011	REVISED -	

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

SCALE:	SHEET NO. 2 OF 79 SHEETS	STA. 47+00.74 TO STA. 52+63.50
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**GENERAL DATA
STRUCTURE NO. 101-6108**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	128
FED. ROAD DIST. NO. 2 ILLINOIS			CONTRACT NO. 85529	
FED. AID PROJECT BRM-5099165				



NOTES:

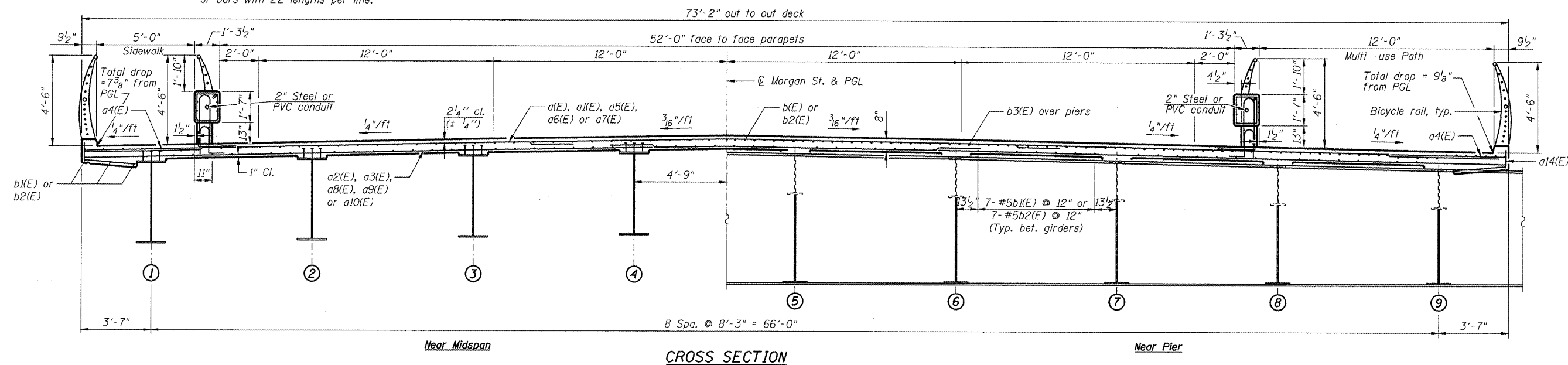
1. See Sheet 13 & 14 of 79 for superstructure details.
2. See Sheet 13 of 79 for Section A-A.
3. Bars indicated thus 62x22-#5 etc. indicates 62 lines of bars with 22 lengths per line.

PLAN

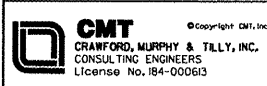
4. See Sheets 21 thru 22 of 79 for parapet reinforcement.
5. See Sheet 23 of 79 for Bicycle and Parapet Railing details.
6. See Sheets 115 thru 126 of 253 for lighting details.
7. See Sheet 16 of 79 for Drainage Scupper details.

MIN. BAR LAP

- #5 bar = 2'-7"
- #6 bar = 3'-1"



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HNTB

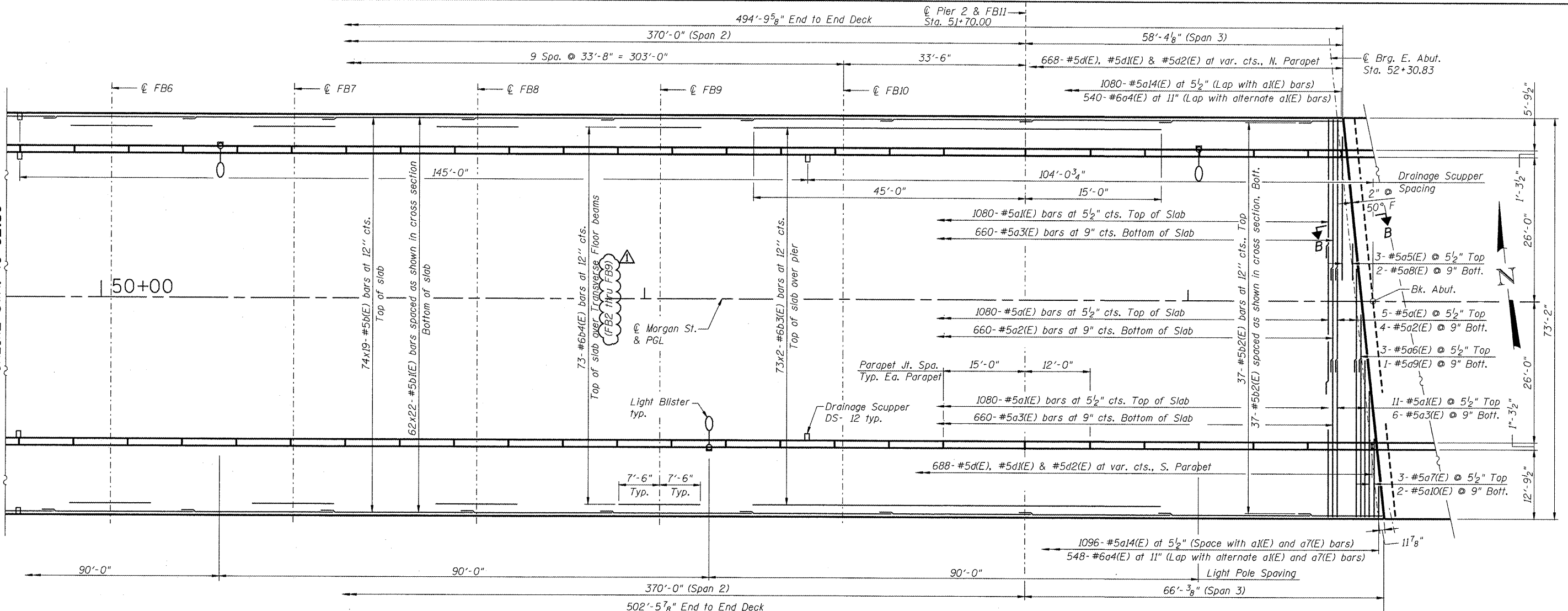
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DRAWN - GLD	REVISED -
CHECKED - RJJ	REVISED -
DATE - 02/04/2011	REVISED -

4-25-11
CITY OF ROCKFORD
MORGAN STREET BRIDGE

DECK PLAN & CROSS SECTION - I
STRUCTURE NO. 101-6108

F.A.U. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 137
SCALE: SHEET NO. 11 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50			CONTRACT NO. 85529	
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-5099(65)				

MATCHLINE STA. 49+82.50



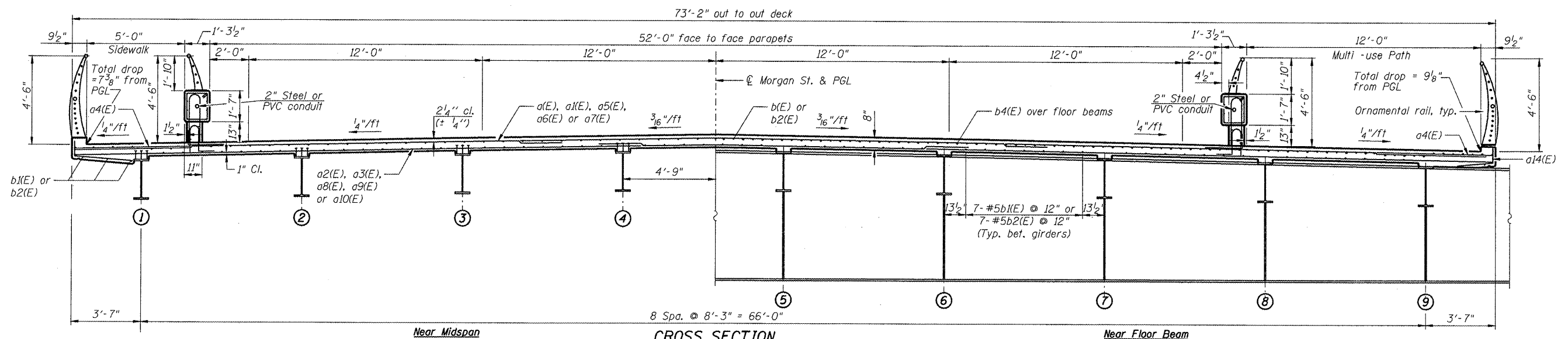
NOTES:

1. See Sheet 13 & 14 of 79 for superstructure details.
2. See Sheet 13 of 79 for Section B-B.
3. Bars indicated thus 62x22-#5 etc. indicates 62 lines of bars with 22 lengths per line.
4. See Sheets 21 thru 22 of 79 for parapet reinforcement.
5. See Sheet 23 of 79 for Bicycle and Parapet Railing details.
6. See Sheets 115 thru 126 of 253 for lighting details.
7. See Sheet 16 of 79 for Drainage Scupper details.

PLAN

MIN. BAR LAP

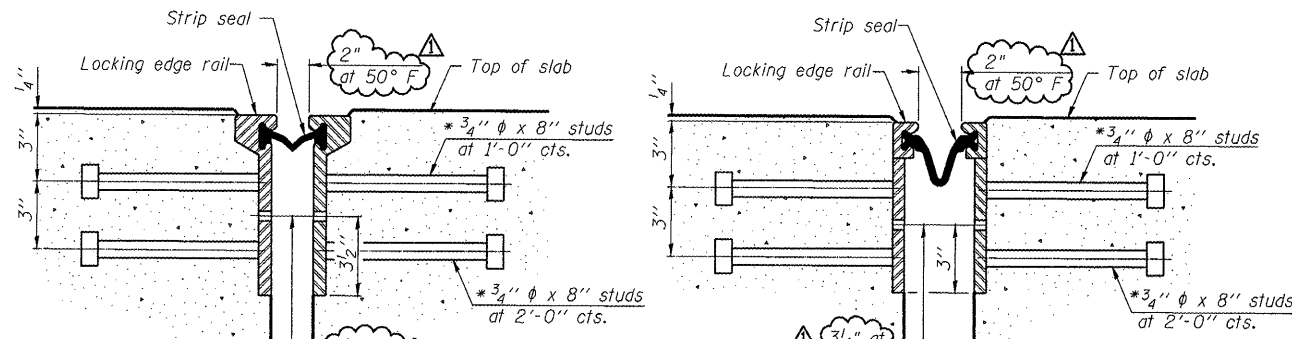
- #5 bar = 2'-7"
- #6 bar = 3'-1"



CROSS SECTION

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<p>CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 184-000613</p>		DESIGNED - PA, JJJ, BPD, CJW	REVISED - ADDENDUM 1	<p>4-25-11</p> <p>CITY OF ROCKFORD MORGAN STREET BRIDGE</p>	<p>DECK PLAN & CROSS SECTION - II STRUCTURE NO. 101-6108</p>		F.A.U. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 138
		DRAWN - GLD	REVISOR -		SCALE:	SHEET NO. 12 OF 79 SHEETS	STA. 47+00.74 TO STA. 52+63.50	FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT BRM-5099(65)			
CHECKED - RJK	REVISOR -						CONTRACT NO. 85529				
DATE - 02/04/2011	REVISOR -										



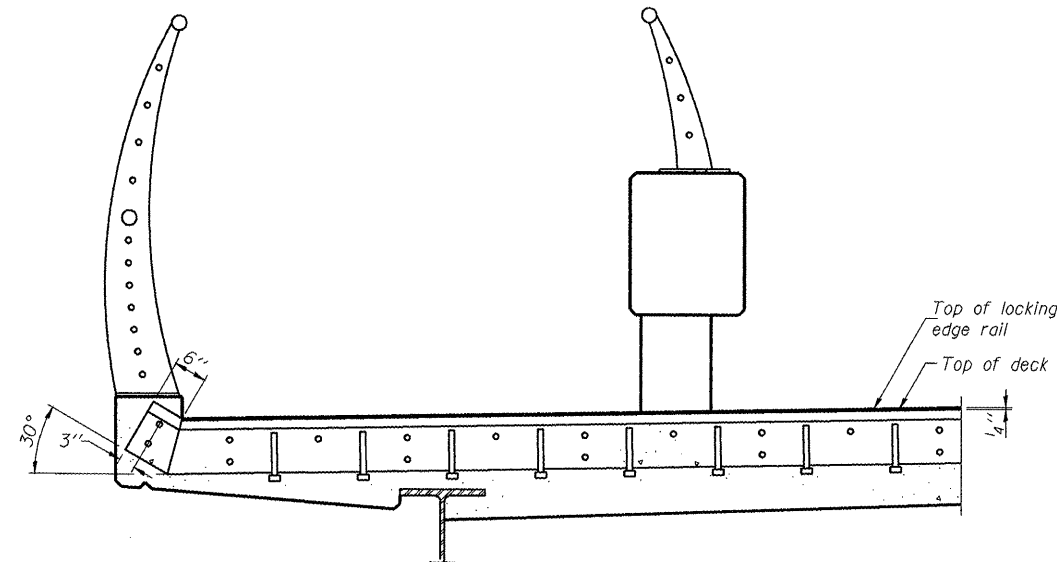
7/16" φ holes at 4'-0" cts. for 3/8" φ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

**SECTION THRU
ROLLED RAIL JOINT**

7/16" φ holes at 4'-0" cts. for 3/8" φ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

**SECTION THRU
WELDED RAIL JOINT**

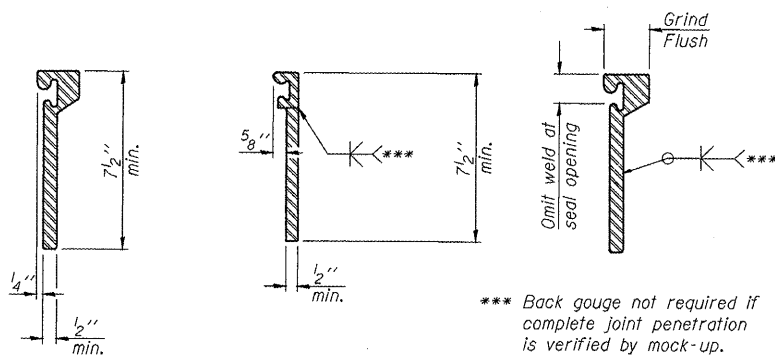
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



AT SIDEWALK (SIMILAR AT MULTI-USE PATH)

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

TYPICAL END TREATMENTS



*** Back gouge not required if complete joint penetration is verified by mock-up.

**ROLLED
EXTRUDED RAIL**

WELDED RAIL

**LOCKING EDGE
RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	74

EJ-SSJ

7-1-10

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CONSULTING ENGINEERS
License No. 154-000613

HNTB

DESIGNED - PA, JDJ, BPD, CJW	REVISED - ADDENDUM 1
DRAWN - GLD	REVISED -
CHECKED - RJK	REVISED -
DATE - 02/04/2011	REVISED -

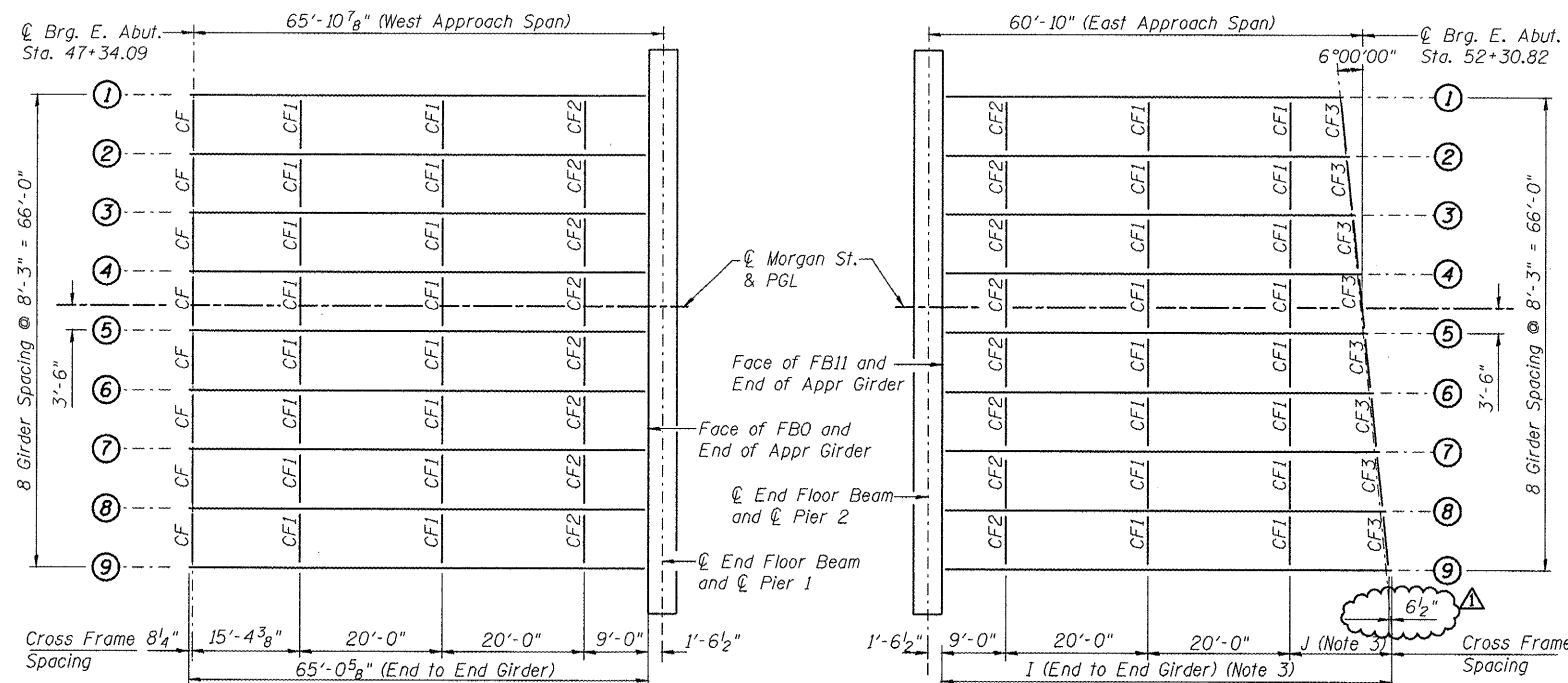
4-25-11
**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

**PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 101-6108**

SCALE: SHEET NO. 15 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50

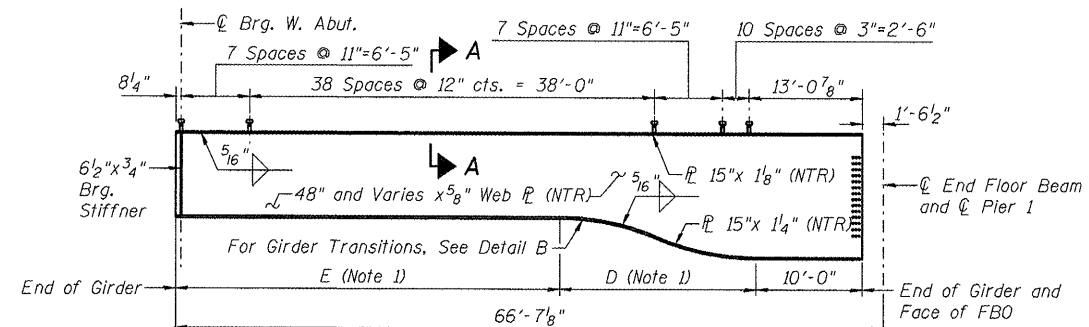
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	141

CONTRACT NO. 85529
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-5099165

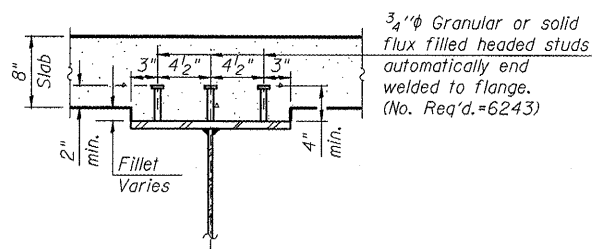


FRAMING PLAN - SPAN 1

FRAMING PLAN - SPAN 3

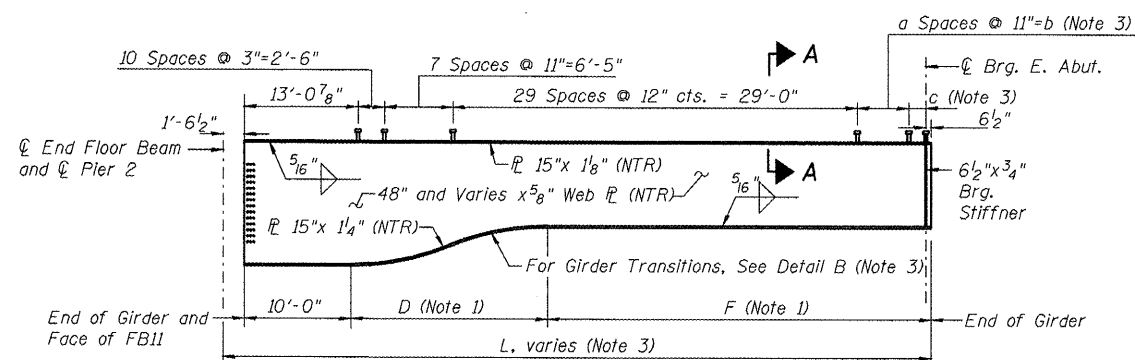


GIRDER ELEVATION - SPAN 1



SECTION A-A

- Notes:
1. For Detail B and Table of Girder Depth Transition Dimensions, See Sheet 25 of 79.
 2. For girder to floor beam connection details, see sheet 54 of 79.
 3. For Span 3 Dimensions, See table, this sheet.



GIRDER ELEVATION - SPAN 3

SPAN 3 GIRDER DIMENSIONS						
Girder	I	J	L	a	b	c
1	56'-8 3/4"	7'-8 3/4"	58'-3 1/4"	7	6'-3"	9 7/8"
2	58'-7 7/8"	8'-7 7/8"	59'-1 5/8"	8	7'-4"	9 1/4"
3	58'-5 1/2"	9'-5 1/2"	60'-0"	9	8'-3"	8 5/8"
4	59'-3 3/8"	10'-3 3/8"	60'-10 3/8"	10	9'-2"	8"
5	60'-2 3/8"	11'-2 3/8"	61'-8 3/8"	11	10'-1"	7 1/2"
6	61'-0 3/4"	12'-0 3/4"	62'-7 1/4"	11	10'-1"	12 7/8"
7	61'-11 1/8"	12'-11 1/8"	63'-5 5/8"	13	11'-11"	6 1/4"
8	62'-9 1/2"	13'-9 1/2"	64'-4"	14	12'-10"	5 5/8"
9	63'-8"	14'-8"	65'-2 1/2"	15	13'-9"	5 1/8"

TOP OF WEB ELEVATIONS				
Girder	© Brg. E. Abut.	Pier 1	Pier 2	© Brg. W. Abut.
1	721.35	723.16	733.33	734.92
2	721.52	723.33	733.51	735.12
3	721.69	723.50	733.68	735.31
4	721.82	723.64	733.81	735.47
5	721.84	723.66	733.83	735.52
6	721.71	723.53	733.70	735.41
7	721.54	723.36	733.53	735.26
8	721.37	723.18	733.36	735.12
9	721.20	723.01	733.19	734.97

For Fabrication Only

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	3,264

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HNTB

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

REVISED - ADDENDUM 1
 REVISED -
 REVISED -
 REVISED -

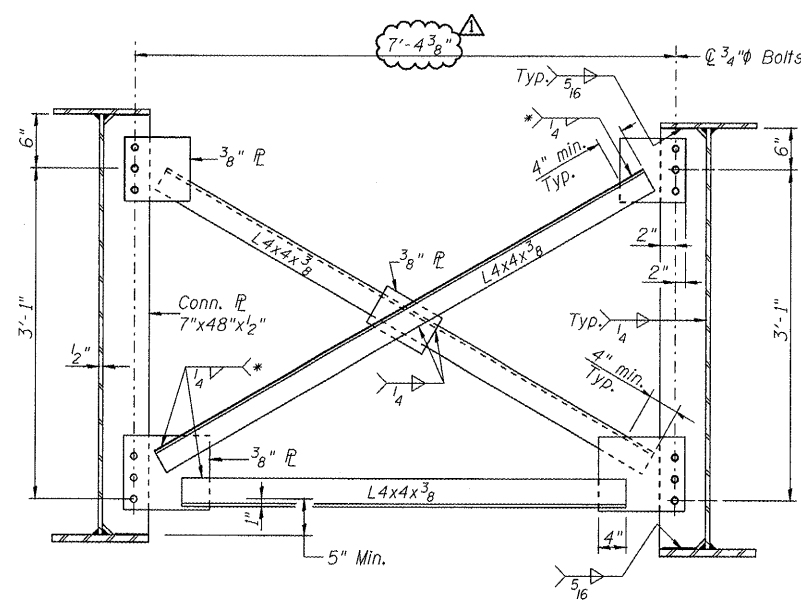
4-25-11
**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

SCALE: SHEET NO.24 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50

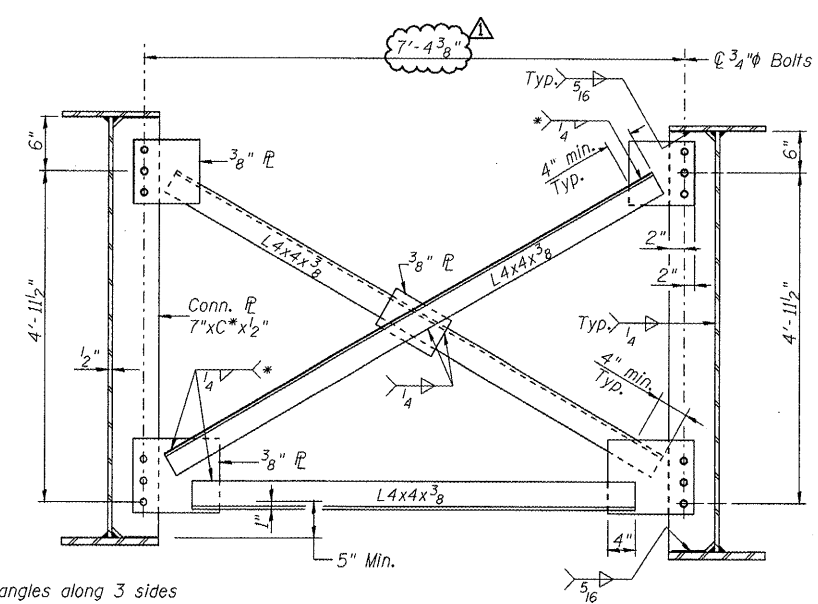
**FRAMING PLAN & DETAILS - I - APPROACH SPANS
 STRUCTURE NO. 101-6108**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	150

CONTRACT NO. 85529
 FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-5099(65)

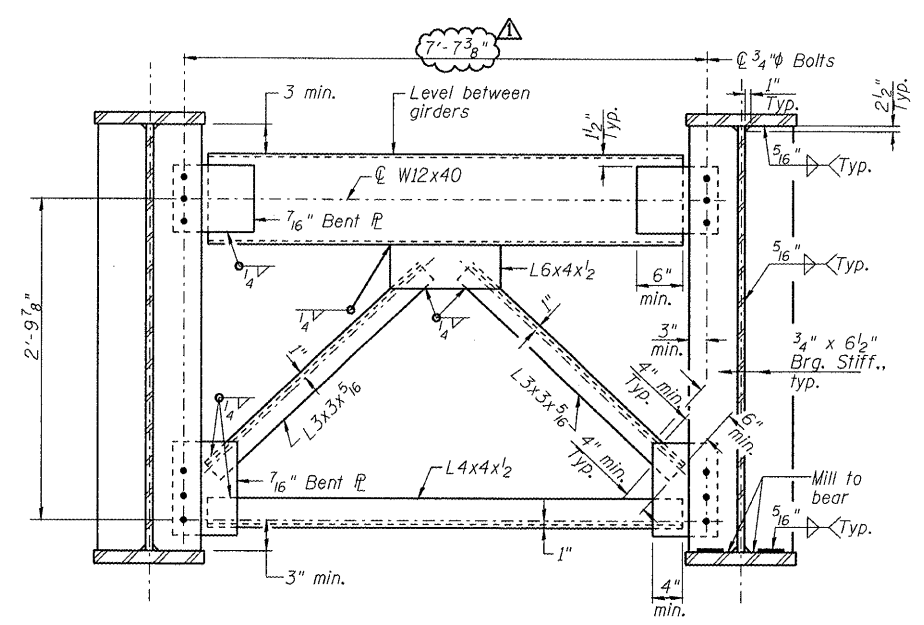


INTERIOR CROSS FRAME, CF1
(32 Required)

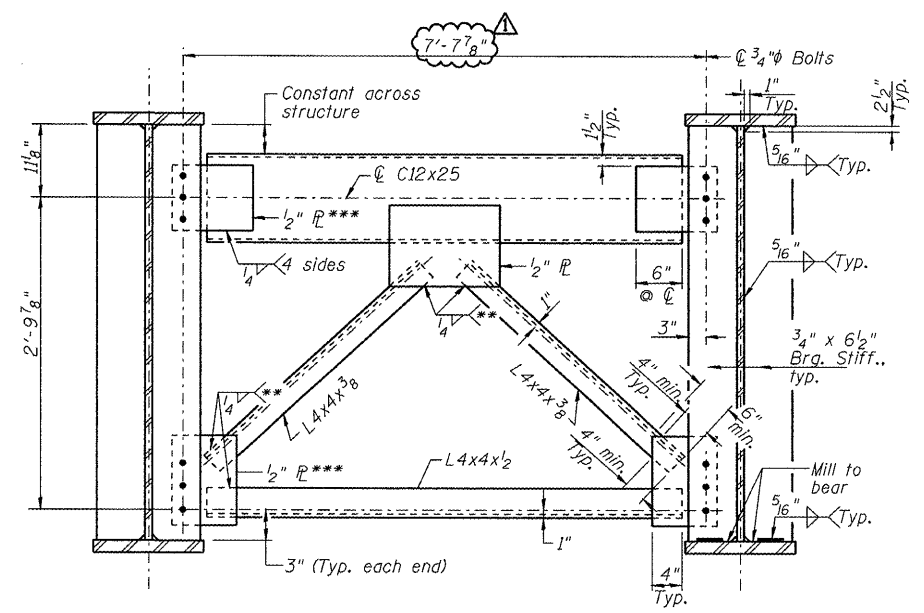


INTERIOR CROSS FRAME, CF2
(16 Required)

* Fillet weld angles along 3 sides on one face of gusset plate.



END CROSS FRAME, CF
(8 Required)

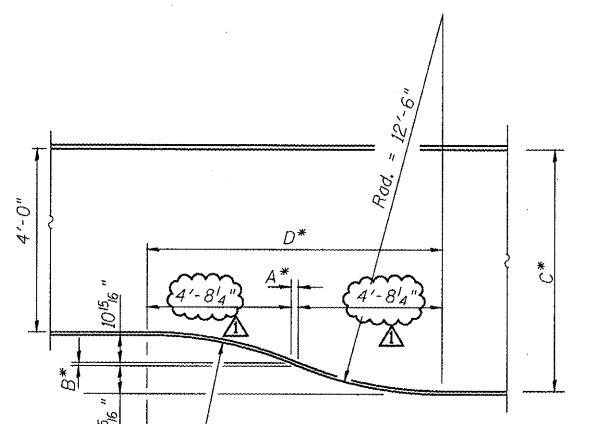


END CROSS FRAME, CF3
(8 Required)

** Weld on near side of 1/2" plate
*** 1/2" Plate to be bent

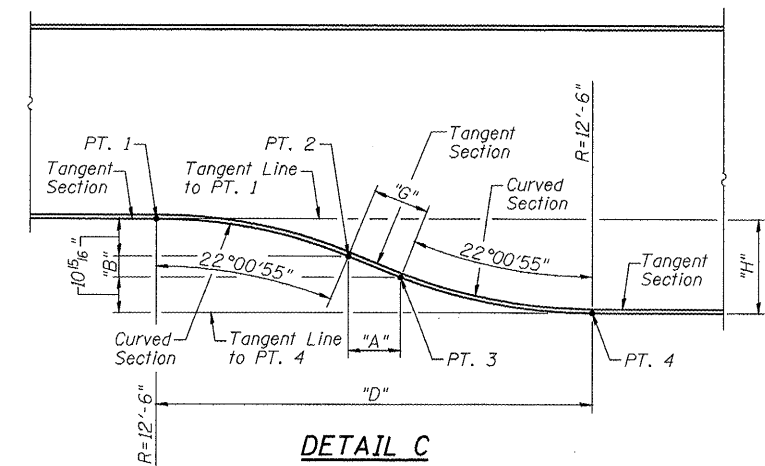
All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

Detail 5/16" diameter holes for all 3/4" diameter bolts.
Two hardened washers required for each set of oversized holes.



DETAIL B

* See Girder Transition Dimensions Table



DETAIL C

GIRDER DEPTH TRANSITION DIMENSIONS									
Girder	A	B	C	D	E	F	G	H	I
1	4"	1 3/8"	5'-11 1/2"	9'-8 1/2"	45'-4 1/8"	37'-0 1/4"	4 3/8"	1'-11 1/2"	56'-8 3/4"
2	9 1/8"	4"	6'-1 1/8"	10'-2 3/8"	44'-10 3/8"	37'-4 3/8"	10 1/8"	2'-1 1/8"	57'-7 1/8"
3	1'-6 1/4"	7 3/8"	6'-5 1/4"	10'-10 3/4"	44'-1 1/8"	37'-6 3/4"	1'-7 1/16"	2'-5 1/4"	58'-5 1/2"
4	2'-0 3/8"	9 3/4"	6'-7 3/8"	11'-4 3/8"	43'-8"	37'-11 1/4"	2'-2"	2'-7 3/8"	59'-3 3/8"
5	2'-1 1/16"	10 1/4"	6'-8 3/16"	11'-5 5/16"	43'-6 1/16"	38'-8 1/16"	2'-3 1/16"	2'-8 3/16"	60'-2 3/8"
6	1'-8 9/16"	8 5/16"	6'-6 3/16"	11'-1"	43'-11 9/16"	39'-11 1/16"	1'-10 1/8"	2'-6 3/16"	61'-0 3/4"
7	1'-3 3/8"	6 3/16"	6'-4 3/16"	10'-8 1/8"	44'-4 1/2"	41'-3"	1'-4 1/8"	2'-4 3/16"	61'-11 1/8"
8	8 1/2"	3 1/4"	6'-1 1/16"	10'-0 5/8"	45'-0"	42'-8 7/8"	8 3/4"	2'-1 3/16"	62'-9 1/2"
9	3 1/4"	1 5/8"	5'-11 3/16"	9'-7 3/4"	45'-4 1/8"	44'-0 1/4"	3 1/2"	1'-11 3/16"	63'-8"

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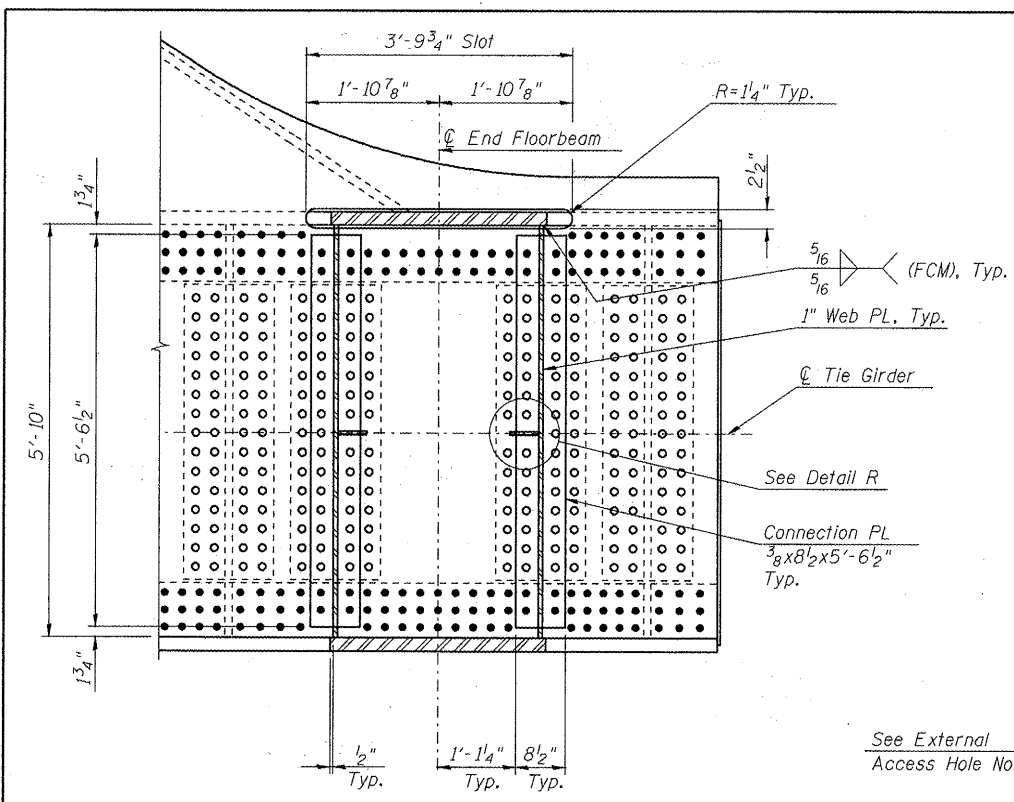
DESIGNED - PA, JDI, BPD, CJW
DRAWN - GLD
CHECKED - RJK
DATE - 02/04/2011

REVISED - ADDENDUM 1
REVISED -
REVISED -
REVISED -

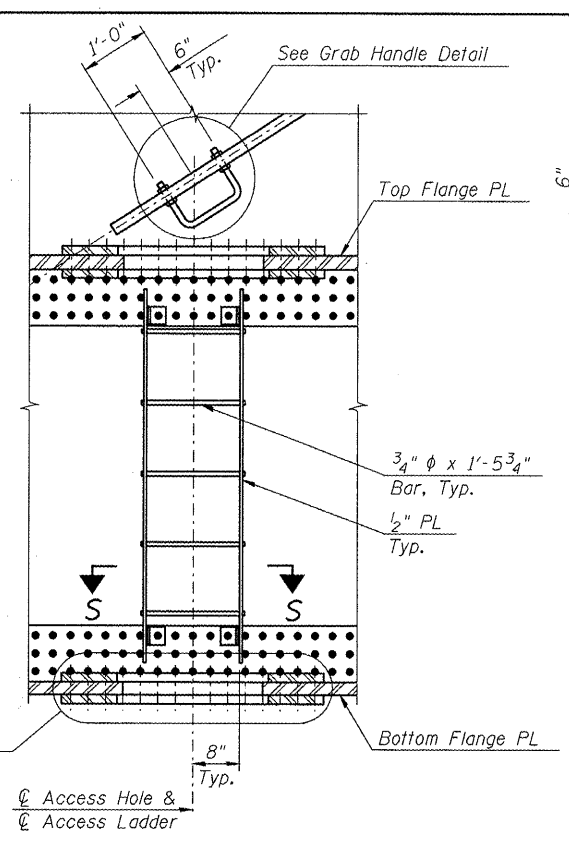
4-25-11
CITY OF ROCKFORD
MORGAN STREET BRIDGE

FRAMING PLAN & DETAILS - II - APPROACH SPANS
STRUCTURE NO. 101-6108
SCALE: SHEET NO. 25 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50

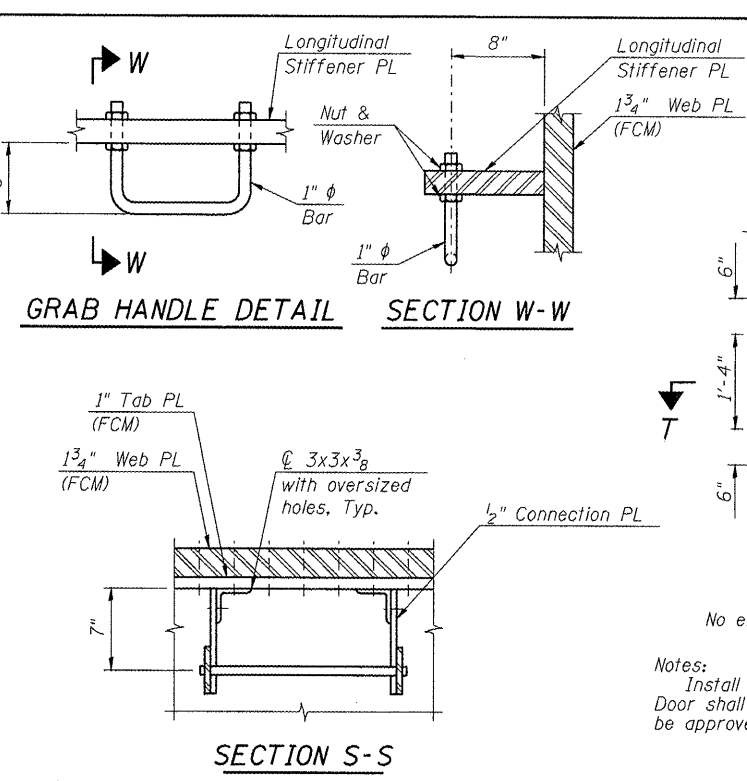
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	151
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509865	



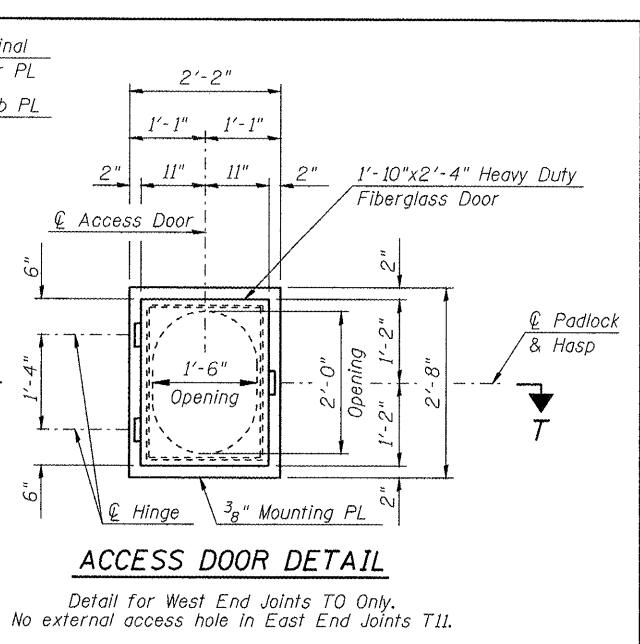
SECTION M-M
Splice PL's not shown for clarity



SECTION N-N



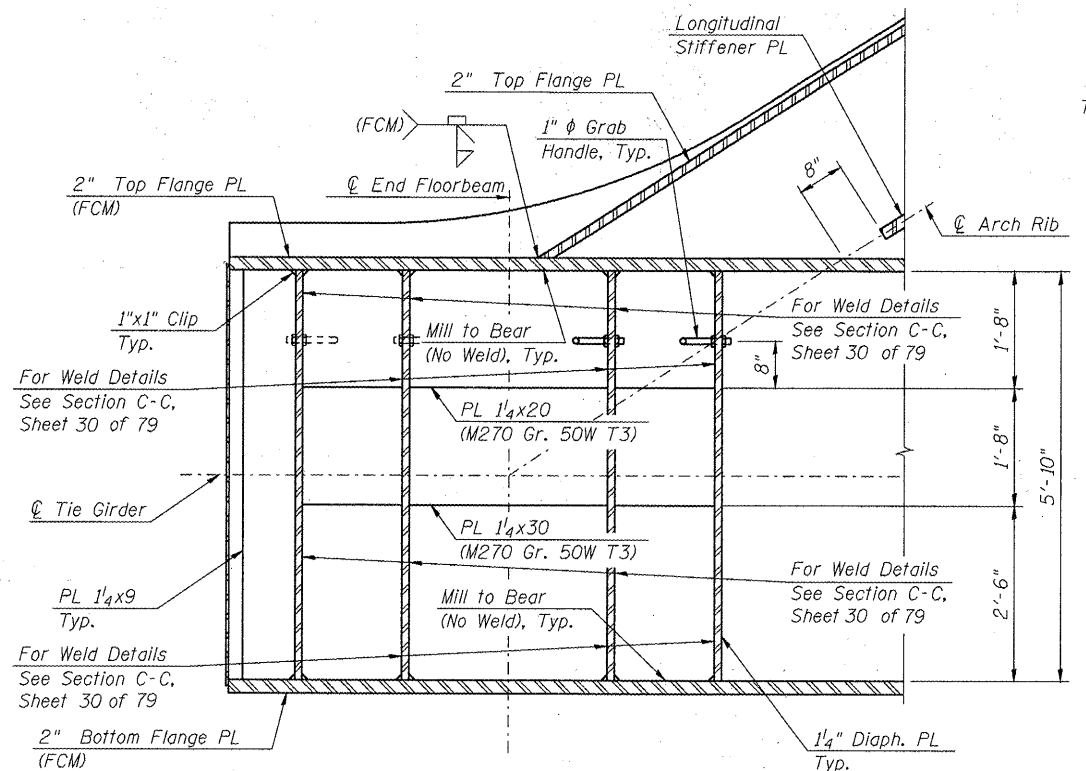
SECTION W-W



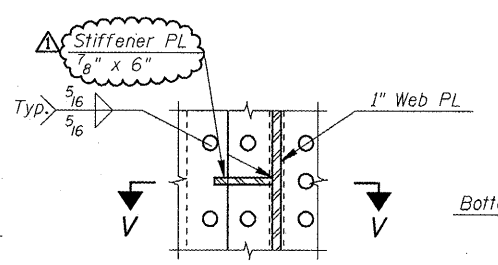
ACCESS DOOR DETAIL

Detail for West End Joints TO Only.
No external access hole in East End Joints T11.

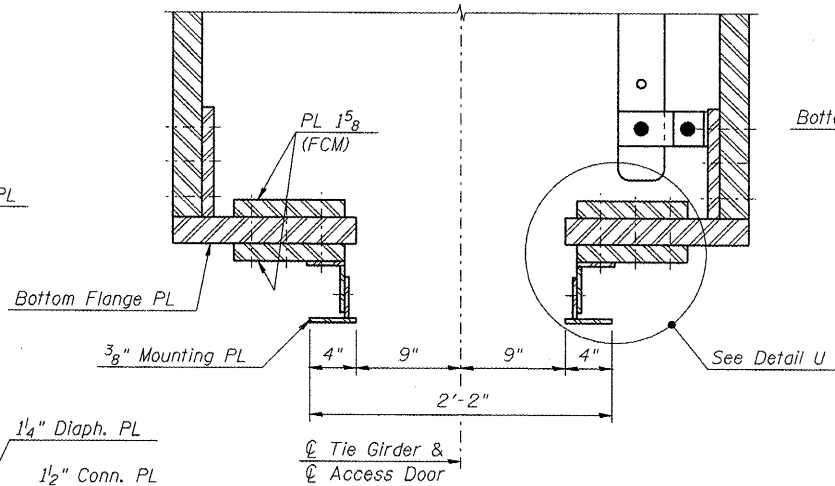
Notes:
Install Fiberglass door per manufacturer's recommendations.
Door shall be heavy duty and water tight. Fiberglass door shall be approved by the Engineer.



SECTION Q-Q
Tab PL's, Connection PL's and Web Bolts not Shown for Clarity

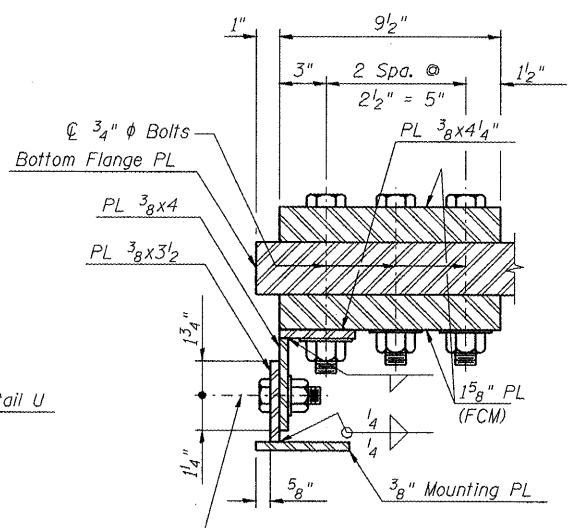


DETAIL R



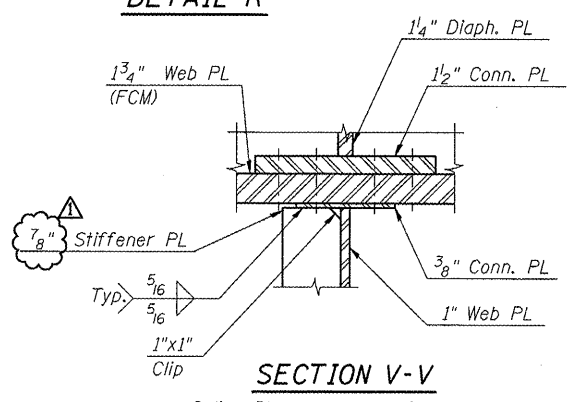
SECTION T-T

Fiberglass Door not shown for clarity
Section at West End Joints TO only.
No access hole in bottom flange at East End Joints T11.



DETAIL U

Detail at West End Joints TO only.
No access hole in bottom flange at East End Joints T11.



SECTION V-V

Splice PL's not shown for clarity

EXTERNAL ACCESS HOLE NOTE:
External Access Hole and additional flange plates are to be installed at TO only (West End Joints only). No hole shall be provided in East End Joint Bottom Flange Plates T11.

Notes:
● Denotes 7/8\"/>

L:\ROCKFORD\0826802\01-04\0400_Sheets\33_Tied Arch End Details 2.dgn



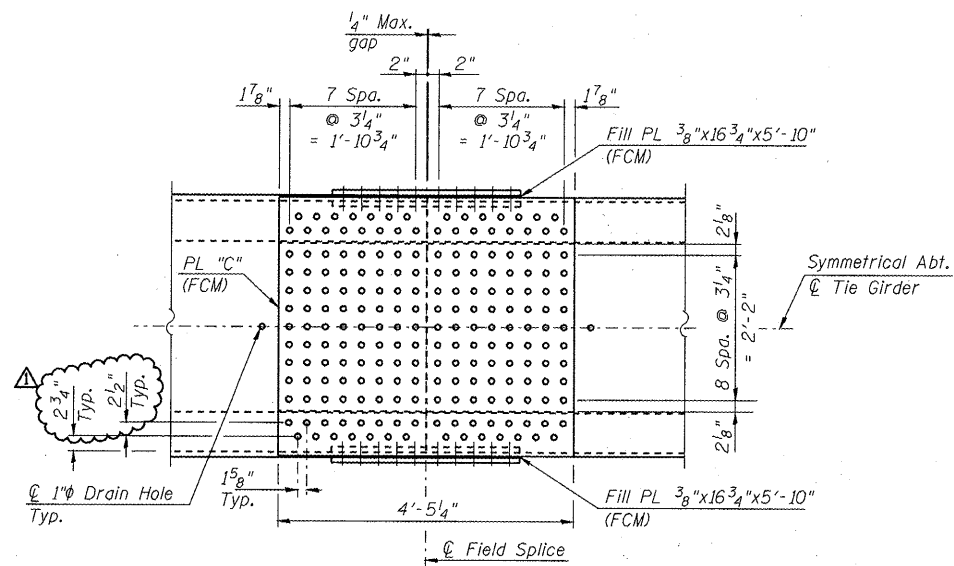
HNTB

DESIGNED - PA, JDI, BPD, CJW	REVISED - ADDENDUM 1
DRAWN - GLD	REVISED -
CHECKED - RJK	REVISED -
DATE - 02/04/2011	REVISED -

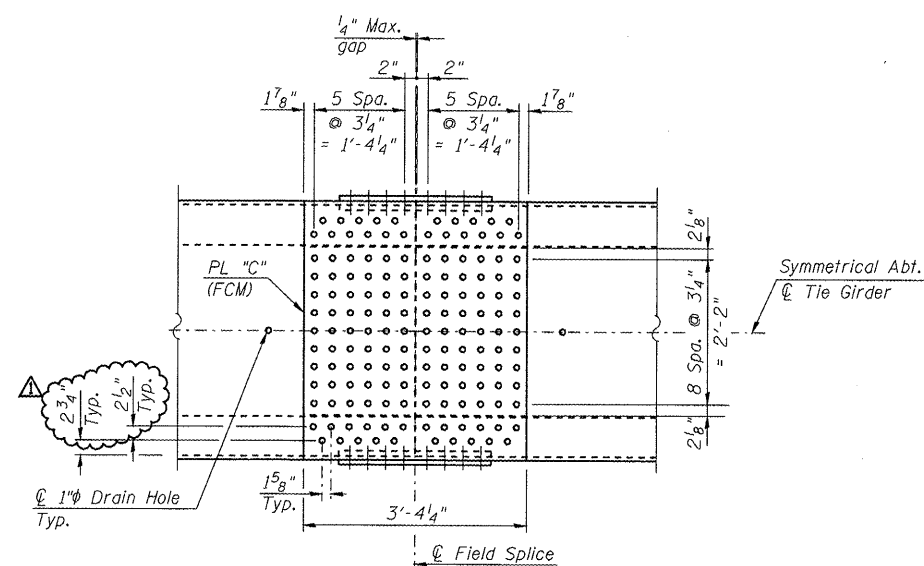
7-25-11
CITY OF ROCKFORD
MORGAN STREET BRIDGE

TIED ARCH END DETAILS - III
STRUCTURE NO. 101-6108
SCALE: SHEET NO. 33 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50

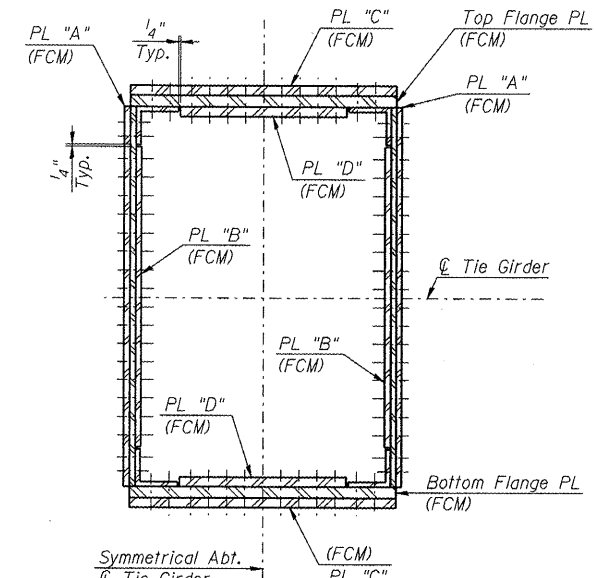
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	159
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965	



TOP VIEW-TS2 TOP & BOTTOM FLANGE SPLICE
(TS5 Opposite Hand)

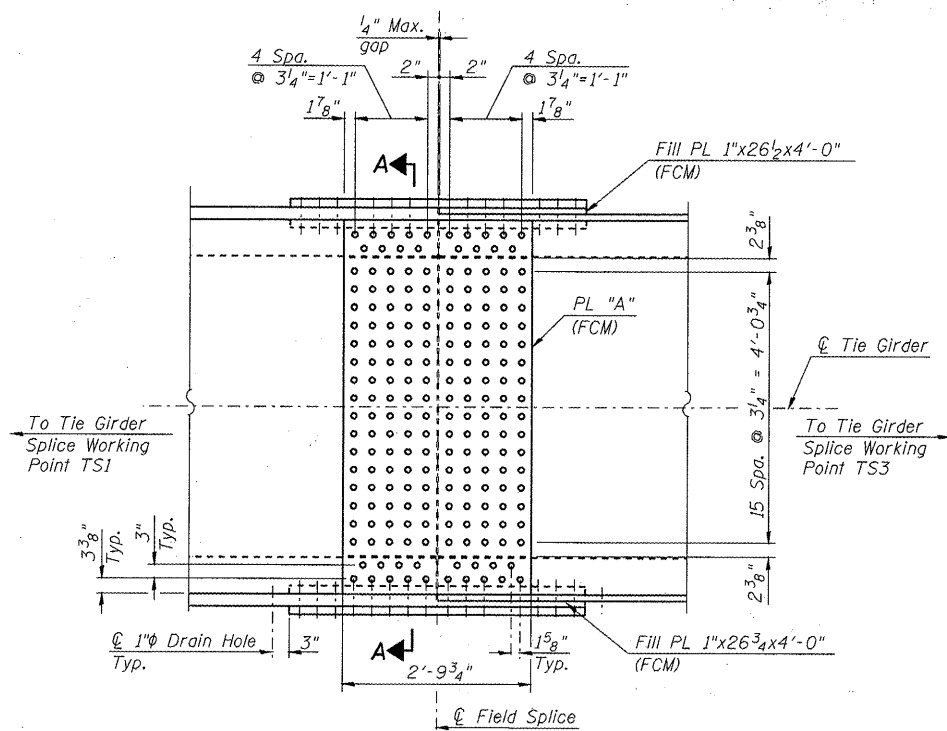


TOP VIEW-TS3 TOP & BOTTOM FLANGE SPLICE
(TS4 Opposite Hand)

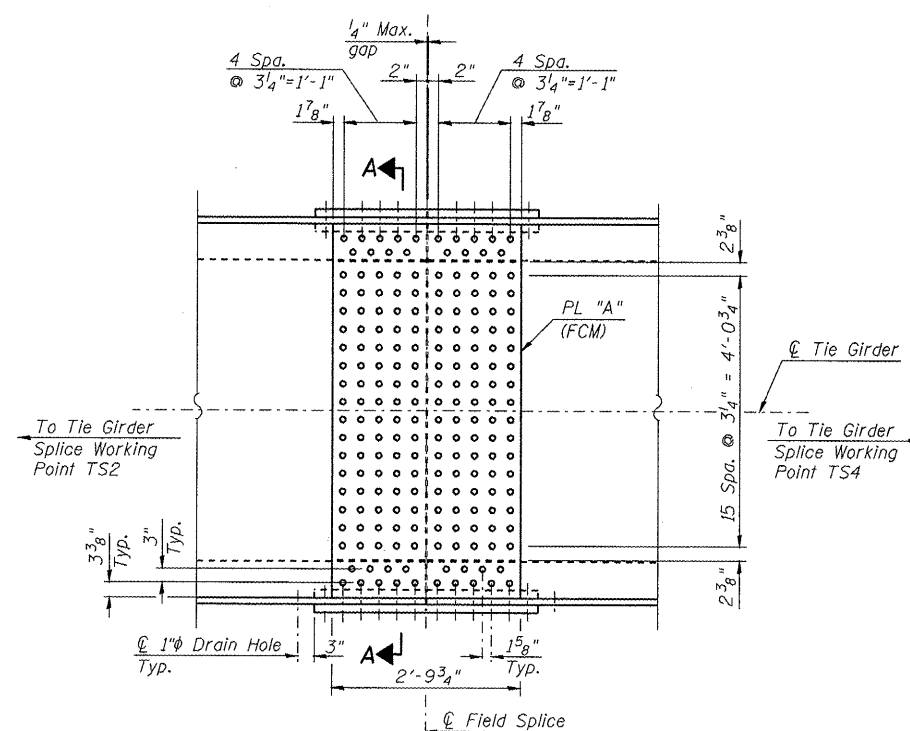


SECTION A-A

SPLICE PLATE DIMENSIONS				
LOCATION	A	B	C	D
TS2, TS5	3/4 x 33 3/4 x 5'-10"	3/4 x 33 3/4 x 4'-5 1/2"	7/8 x 48 x 4'-5 1/4"	7/8 x 30 1/4 x 4'-5 1/4"
TS3, TS4	1/2 x 33 3/4 x 5'-10"	1/2 x 33 3/4 x 4'-5 1/2"	7/8 x 48 x 3'-4 1/4"	7/8 x 30 1/4 x 3'-4 1/4"



TIE GIRDER SPLICE TS2 - WEB SPLICE
(TS5 Opposite Hand)



TIE GIRDER SPLICE TS3 - WEB SPLICE
(TS4 Opposite Hand)

Notes:
Fracture Critical Members (FCM) are delineated in the details on this sheet. Members called out as FCM shall be M270 Gr. 50W F3(FCM). These members and plates shall be clearly labeled on shop drawings.
Bolts shall be 7/8" φ high-strength bolts.
For Tie Girder Splices TS1 and TS6, see Sheet 44 of 79.
For Tie Girder Details, see Sheets 41 thru 43 and 46 of 79.

L:\ROCKFORD\08262002\Drawn\CA00\Sheets\A.45_Tie Girder-Splice Details 2.dgn

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DATE - 02/04/2011

REVISED - ADDENDUM 1
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REVISED -
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**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

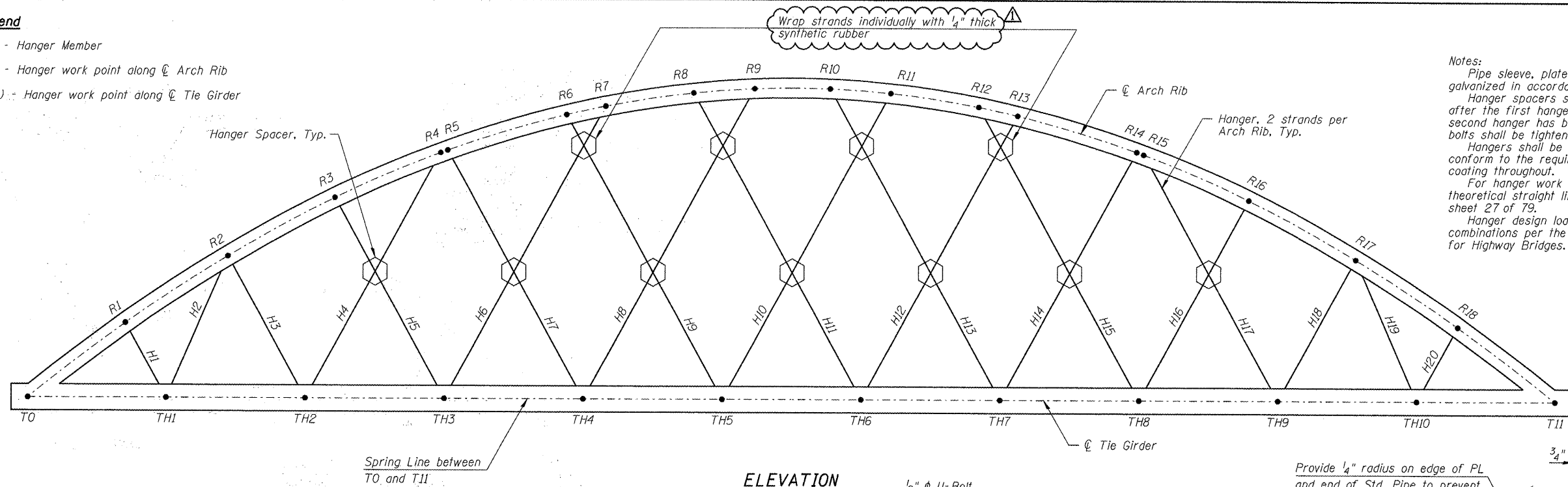
**TIE GIRDER SPLICE DETAILS - II
STRUCTURE NO. 101-6108**

SCALE: SHEET NO. 45 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	171
FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT BRM-509965			CONTRACT NO. 85529	

Legend

H(n) - Hanger Member
 R(n) - Hanger work point along ϕ Arch Rib
 TH(n) - Hanger work point along ϕ Tie Girder

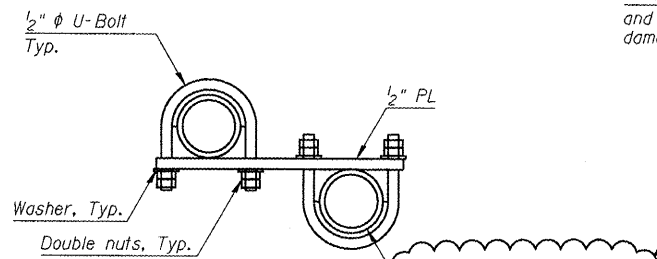


Notes:
 Pipe sleeve, plate, U-bolts, nuts and washers shall be galvanized in accordance with ASTM A153.
 Hanger spacers shall be installed, but not tightened, after the first hanger has been fully tensioned. After the second hanger has been fully tightened, the hanger spacer bolts shall be tightened.
 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

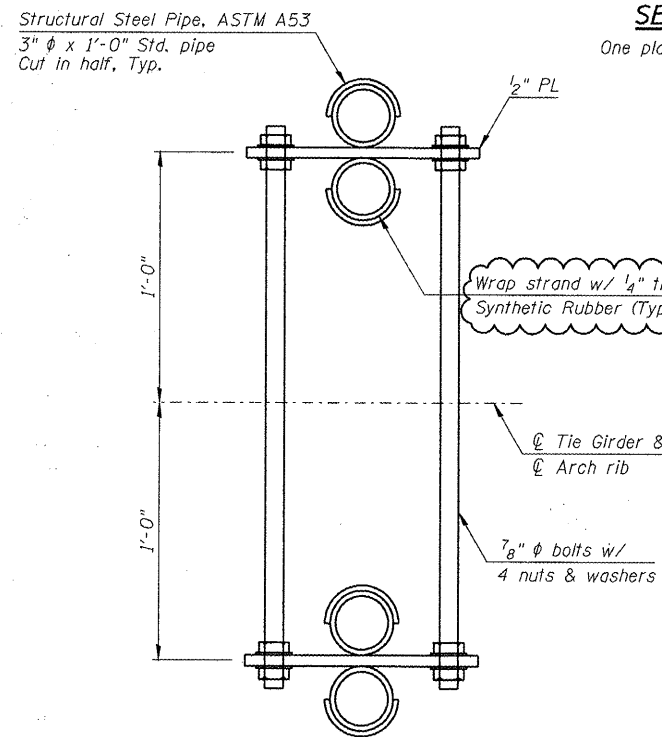
Hanger H(n)	Struct. Strand Dia. (In.)	No. Strands Required Per Rib	Gross Metallic Area (Sq. In.)	Loads (Kips)							
				Service				Factored			
				DL-A	DL-B	FWS	Max.	Min.	Max.	Min.	
H1	2.5	2	3.75	79	8	23	144	104	214	136	
H2	2.5	2	3.75	21	2	8	70	16	116	14	
H3	2.5	2	3.75	117	12	35	220	158	330	206	
H4	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.

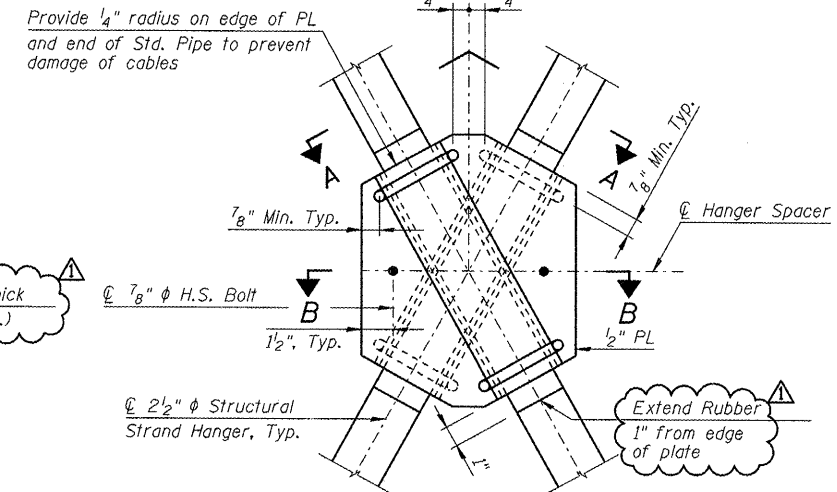


SECTION A-A

One plate shown for clarity



SECTION B-B

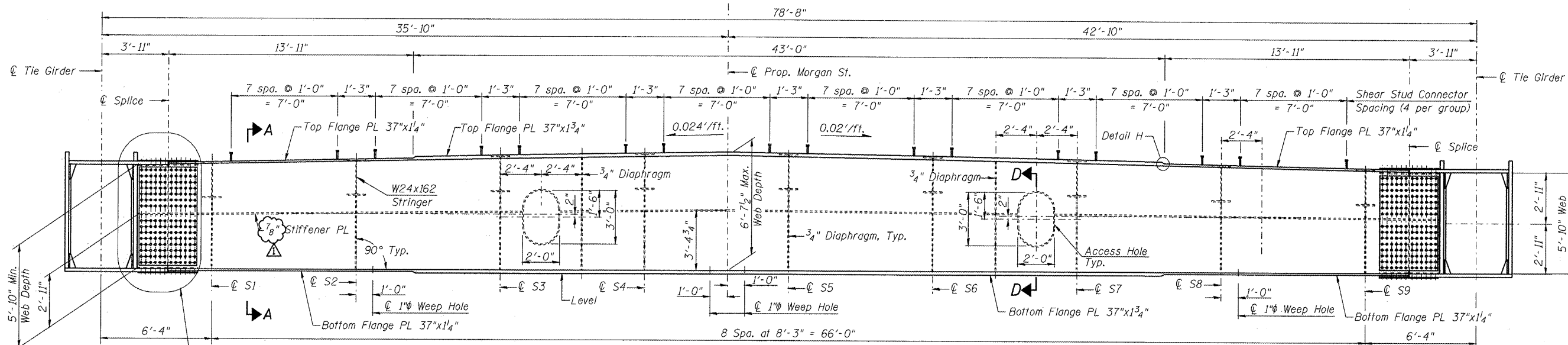


HANGER SPACER DETAIL

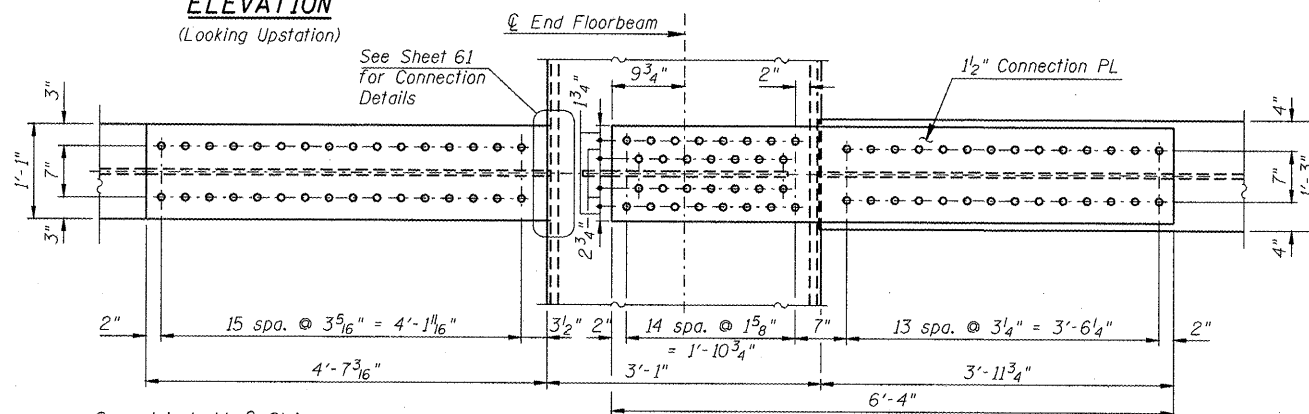
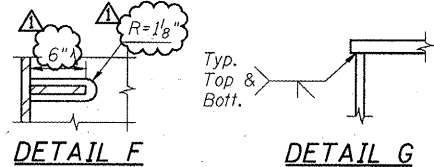
HANGERS (STRUCTURAL STRAND)

- Hangers shall be hot dipped galvanized structural strand per ASTM A586, Class C coating throughout. Structural strand shall be of helical wire construction.
- Hanger lengths shall be determined by the contractor and shall be within a tolerance of 0-inches long to 1/4-inches short.
- The contractor shall place a permanent paint stripe on the top surface of the strand at the time of measurement which shall be referenced to eliminate any change in length of the strand due to twisting. The hanger shall be installed without twist.
- Hangers shall be pre-stretched by the manufacturer such that the minimum value of the modulus of elasticity (E) of each strand is 23,000 ksi. Pre-stretching shall be accomplished by tensioning each strand, three times in succession. The strands shall be tensioned to 50% of their minimum breaking force for a duration of 5 minutes; this tension shall be relaxed to 5% of the minimum breaking force in between the second and third tensioning.
- Hanger end fittings shall conform to ASTM A 148, Grade 105.
- Hanger end fittings shall be zinc coated in accordance with ASTM A 153, Class C coating.
- Radiographic examination of the pilot casting for the end fittings shall be performed in accordance with ASTM E 186. 100% of the pilot casting shall be examined. The severity of discontinuities shall be equal to or better than severity level 3 to be acceptable. In addition to the pilot castings, one test shall be performed per heat.
- Magnetic particle inspection shall be performed on the end fittings in accordance with ASTM E 709. The acceptance criteria shall be that specified in ASTM E 125, severity degree 3. One test shall be performed per heat.

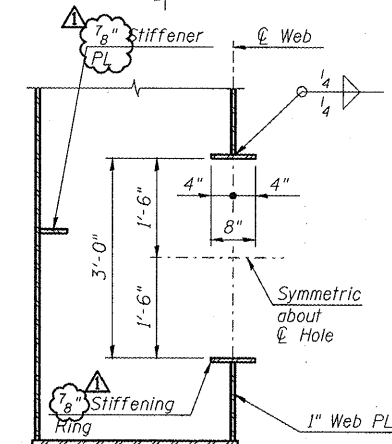
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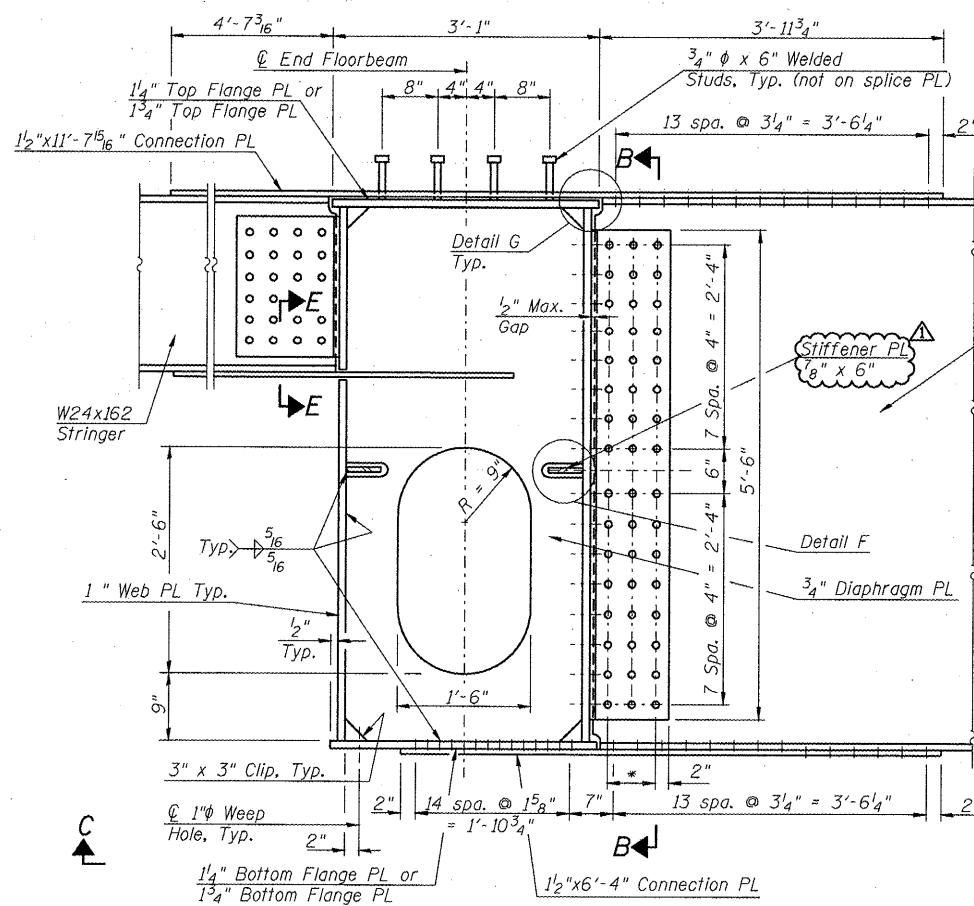
ELEVATION
(Looking Upstation)



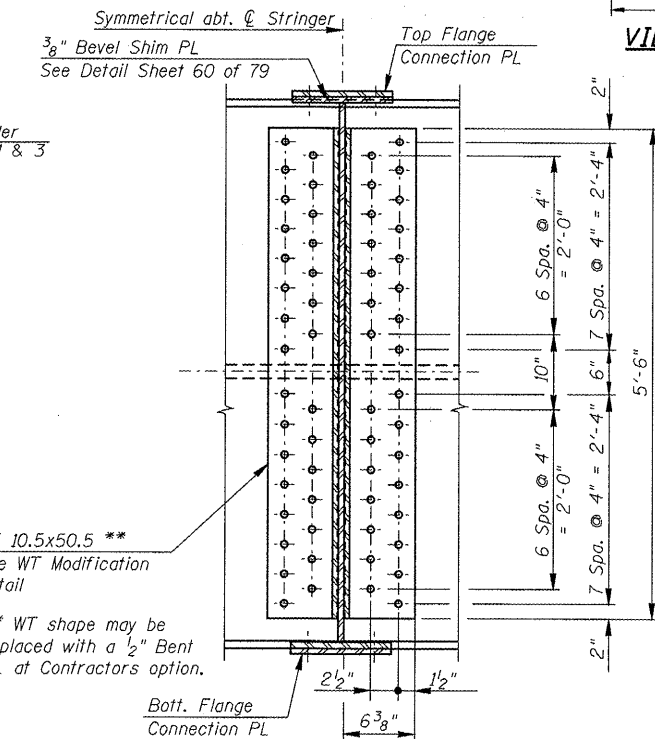
VIEW C-C



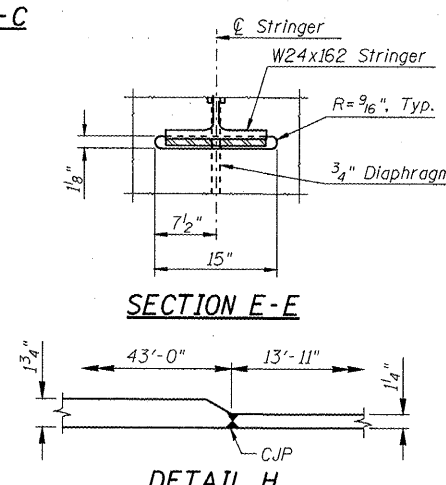
SECTION D-D



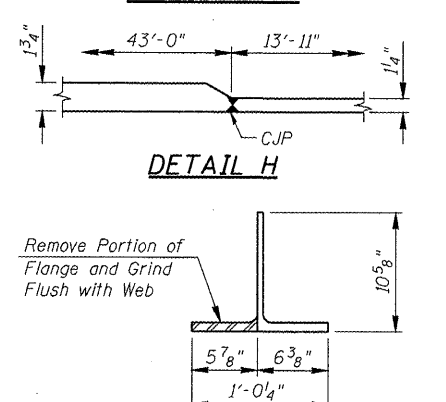
SECTION A-A



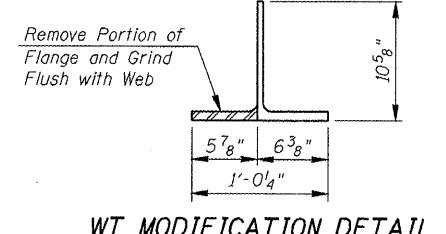
SECTION B-B



SECTION E-E



DETAIL H



WT MODIFICATION DETAIL

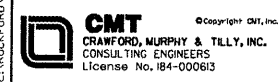
Notes:

- For Framing Plan, see Sheet 53 of 79.
- For Stringer Details, see Sheets 60 and 61 of 79.
- For Floorbeam Camber and Deflections, see Sheet 59 of 79.
- For Lower Lateral Bracing Details, see Sheet 62 of 79.
- For Access Door Details, see Sheet 55 of 79.
- Denotes 1" high strength bolt
- Web penetrations at the Stringers shall be sealed with silicone upon the installation of the Stringer bottom flange connection plate.
- End Floorbeam flange and web plates, filler plates, stiffener plates, bent plates, and splice plates shall conform to the requirements of M270 Grade 50W T3.
- End floorbeam diaphragm plates shall conform to the requirements of M270 Grade 50W T3.
- For Approach Girder Details, see Sheet 24 and 25 of 79.
- For Splice Details, see Sheet 55.
- Cost of End Floorbeam Access Hardware including Fiberglass door shall be included in "Furnishing and Erecting Structural Steel".

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	512

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

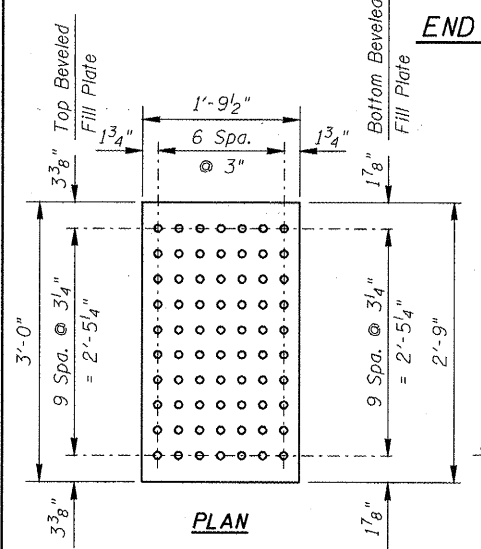
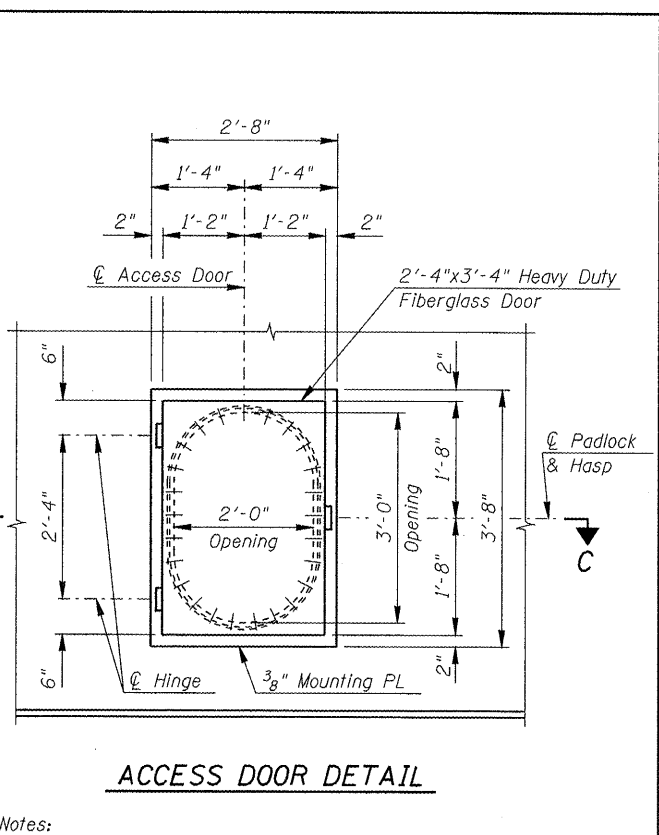
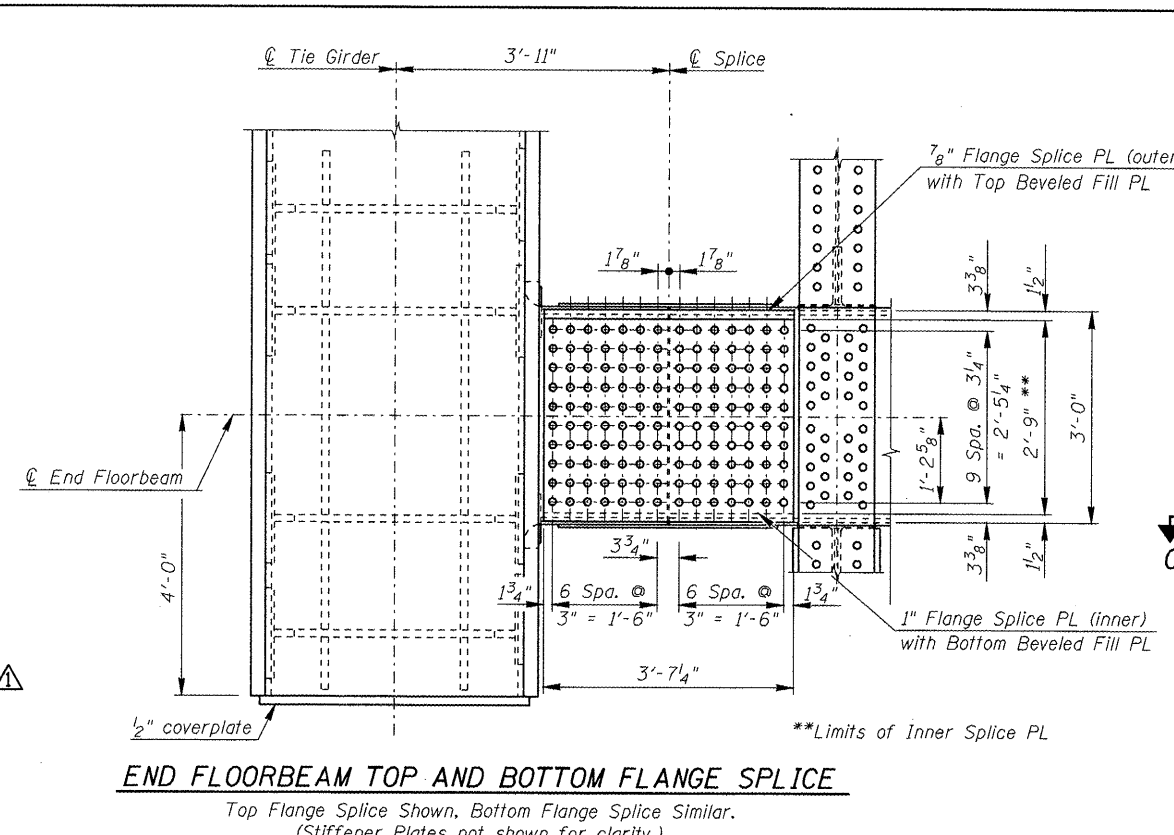
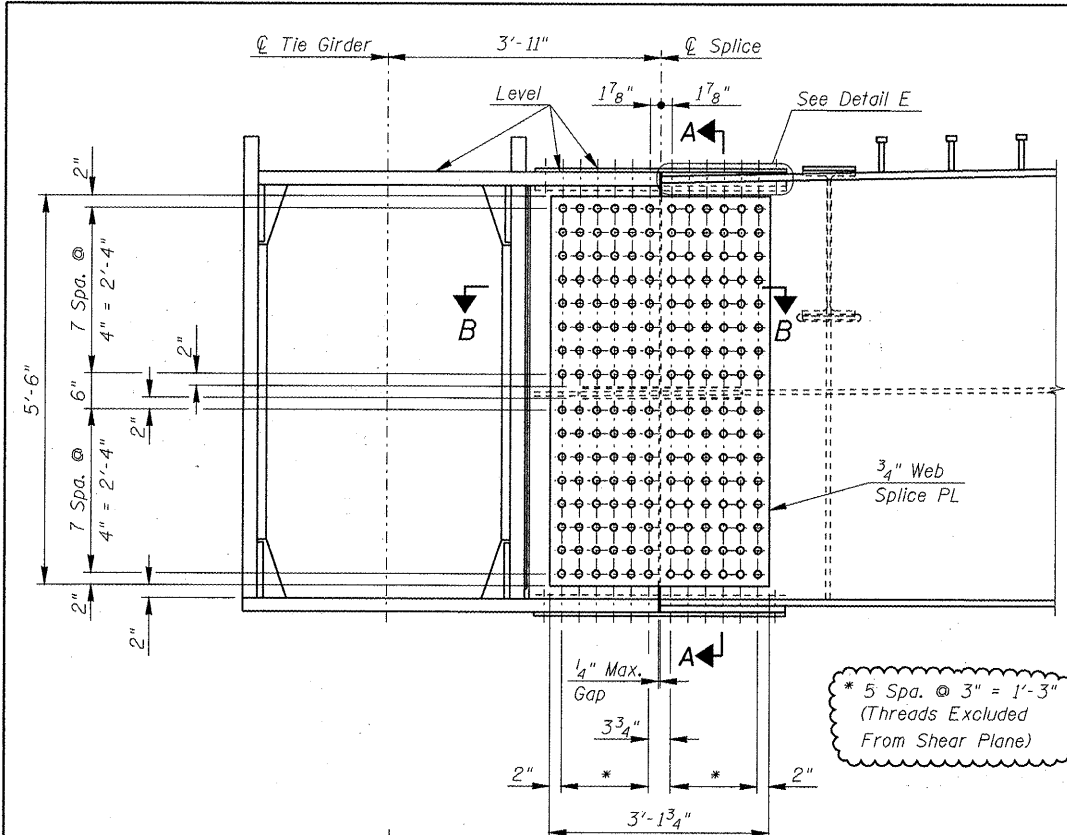
REVISED - ADDENDUM 1
REVISED -
REVISED -
REVISED -

4-25-11

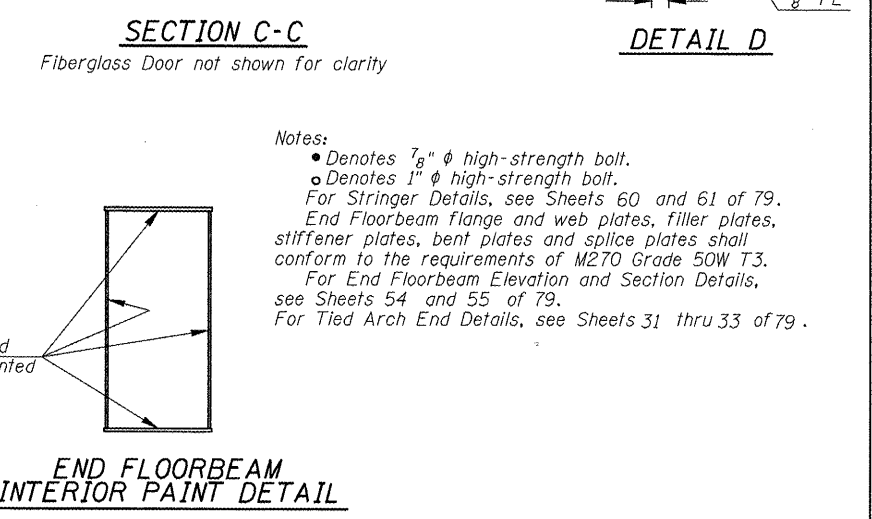
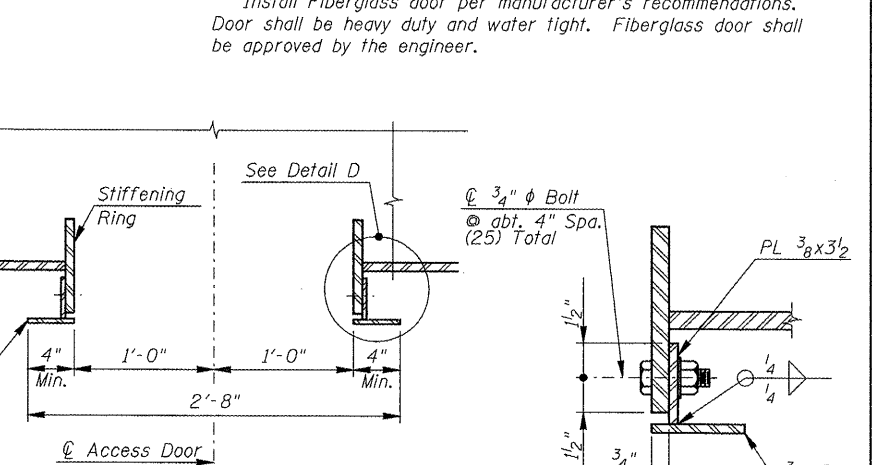
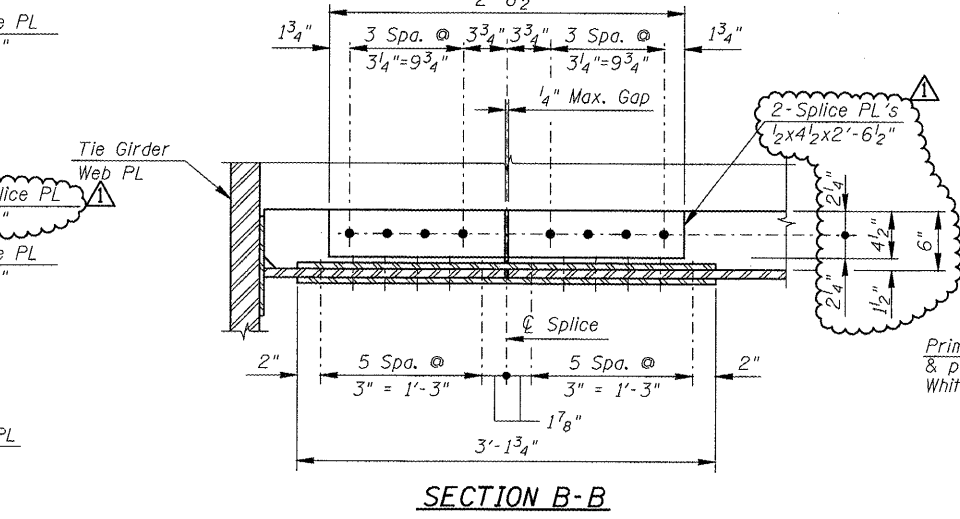
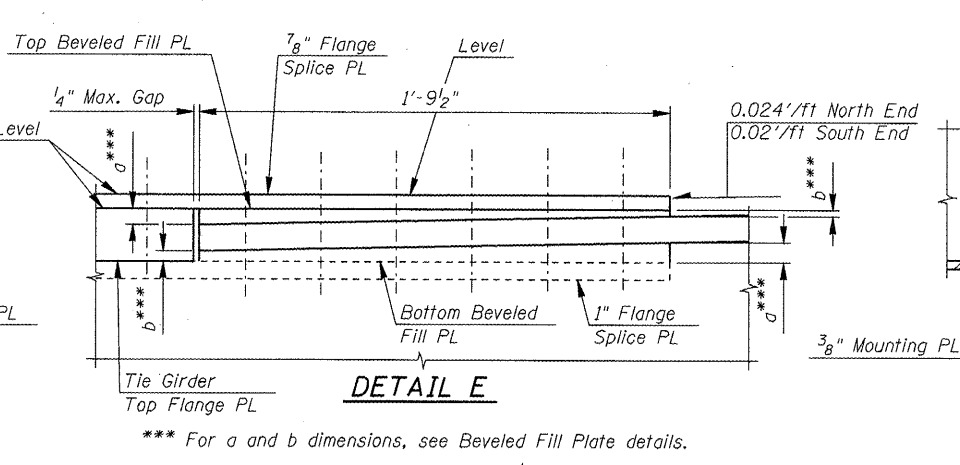
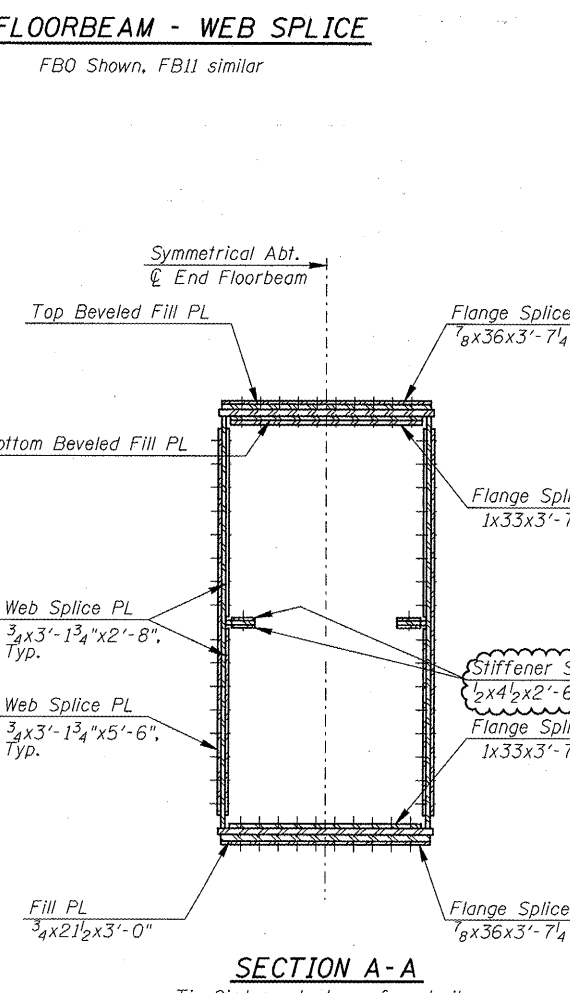
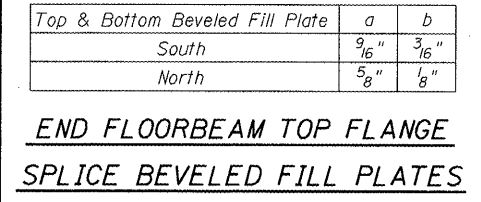
**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

**END FLOORBEAM ELEVATION AND SECTION
STRUCTURE NO. 101-6108**
SCALE: SHEET NO. 54 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	180
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965				



Top & Bottom Beveled Fill Plate	a	b
South	9/16"	3/16"
North	5/8"	1/8"



Notes:
Install Fiberglass door per manufacturer's recommendations.
Door shall be heavy duty and water tight. Fiberglass door shall be approved by the engineer.

Notes:
• Denotes 7/8" φ high-strength bolt.
○ Denotes 1" φ high-strength bolt.
For Stringer Details, see Sheets 60 and 61 of 79.
End Floorbeam flange and web plates, filler plates, stiffener plates, bent plates and splice plates shall conform to the requirements of M270 Grade 50W T3.
For End Floorbeam Elevation and Section Details, see Sheets 54 and 55 of 79.
For Tied Arch End Details, see Sheets 31 thru 33 of 79.

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DRAWN - GLD
CHECKED - RJK
DATE - 02/04/2011

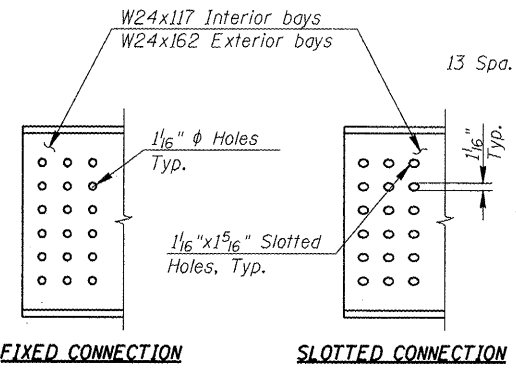
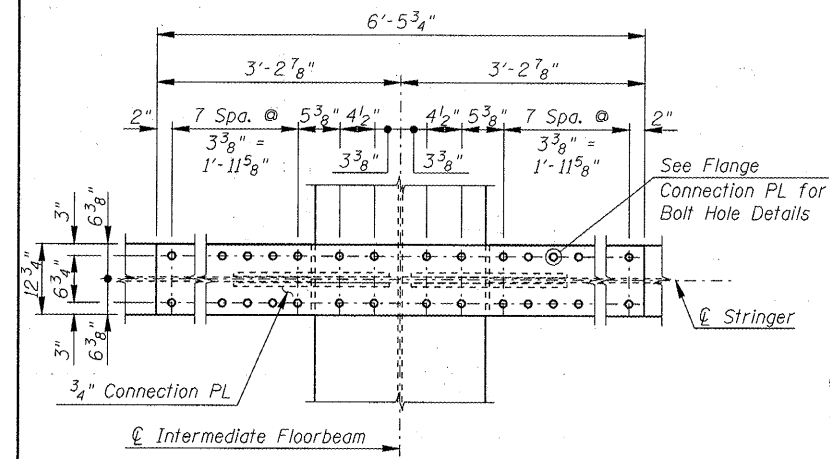
REVISED - ADDENDUM 1
REVISED -
REVISED -
REVISED -

4-25-11
CITY OF ROCKFORD
MORGAN STREET BRIDGE

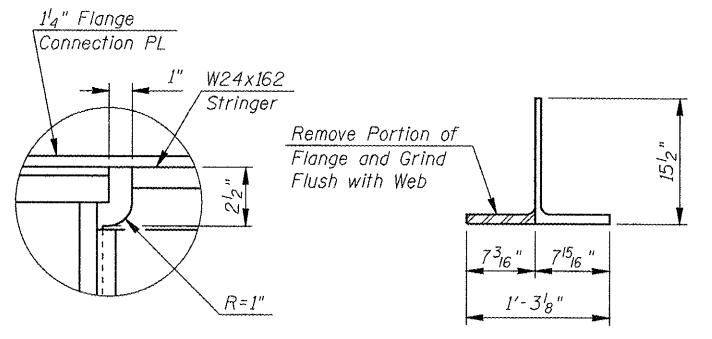
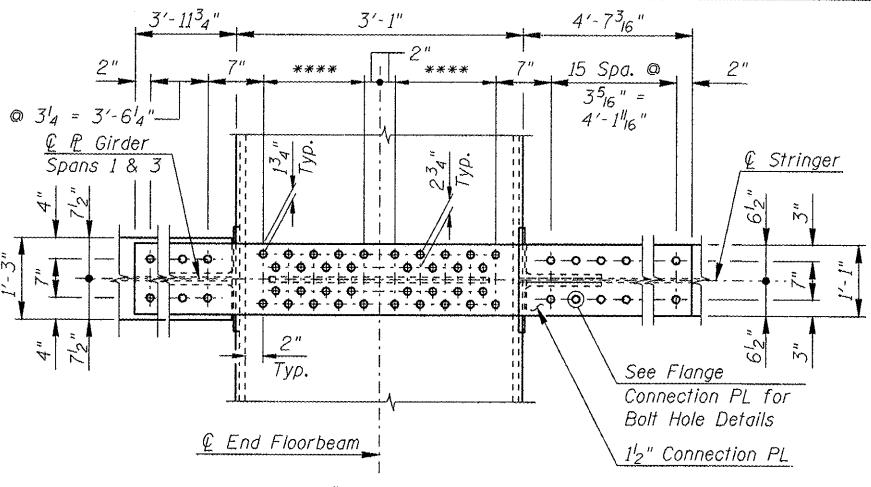
END FLOORBEAM DETAILS
STRUCTURE NO. 101-6108

SCALE: SHEET NO. 55 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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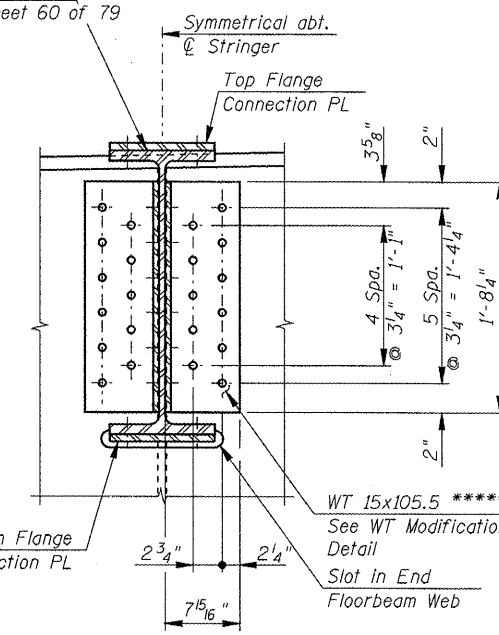
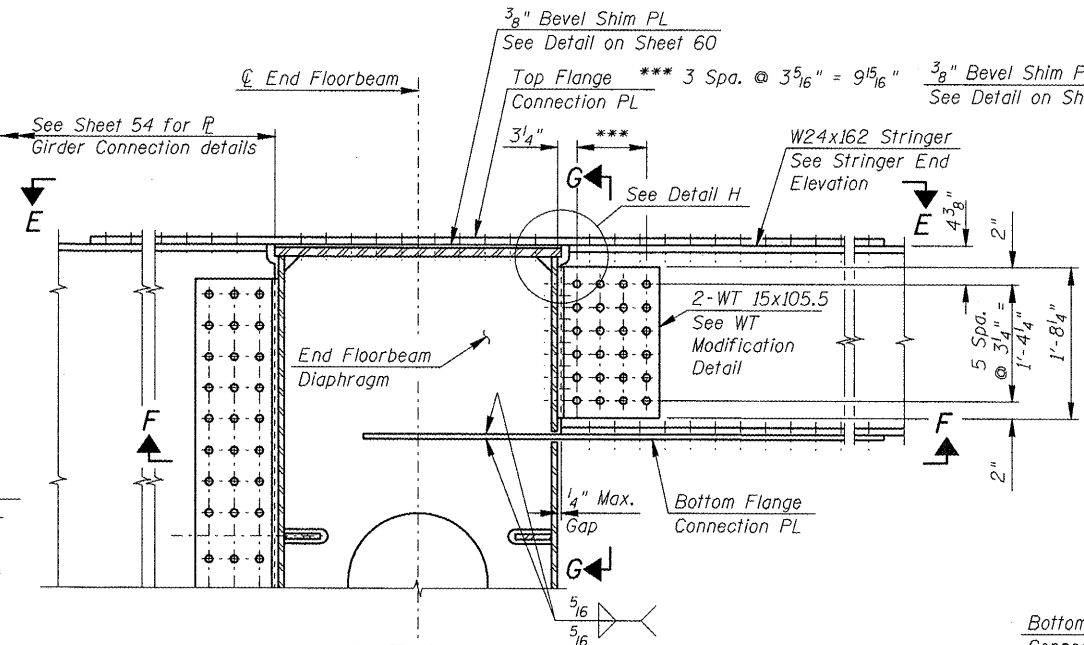
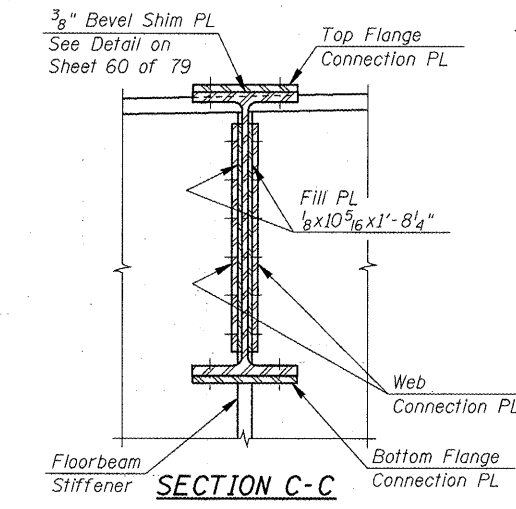
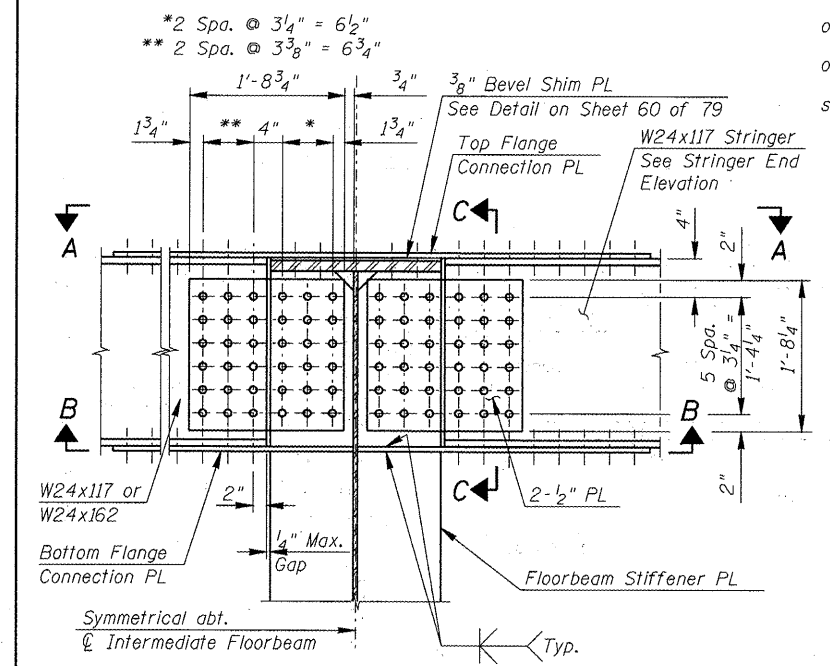


FIXED CONNECTION SLOTTED CONNECTION
STRINGER END ELEVATION AT WEB PLATE CONNECTION

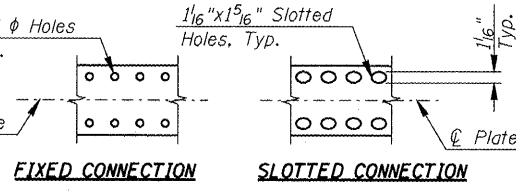
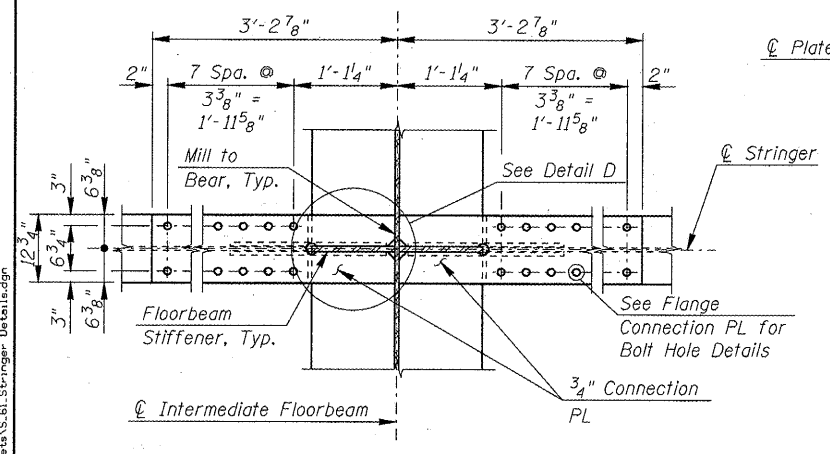


WT MODIFICATION DETAIL

Notes:
 Use standard 1/16" φ holes for 1" φ bolts on stringer webs at connections denoted as "Fixed".
 Use 1/16" x 1 5/16" slotted holes for 1" φ bolts on stringer webs at connections denoted as "Slotted".
 Bolt holes in web connection plates and FB stiffener PL shall be 1/16" φ holes for 1" φ bolts.

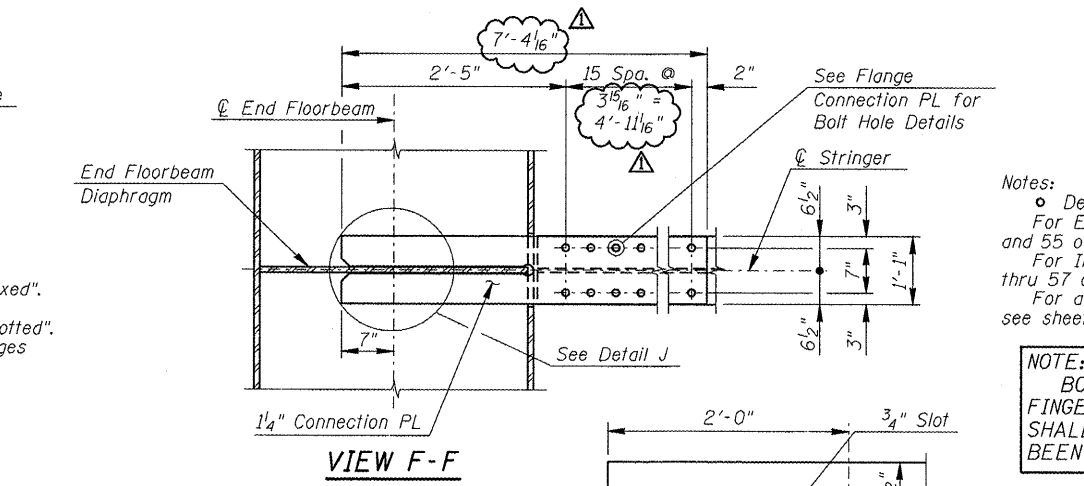
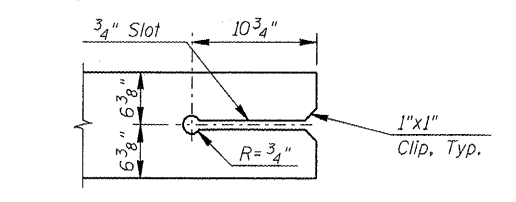


***** WT shape may be replaced with a 3/4" Bent PL at Contractors option.



FIXED CONNECTION SLOTTED CONNECTION
PART PLAN FLANGE CONNECTION PL

Notes:
 Use standard 1/16" φ holes for 1" φ bolts on all flange connection plates at connections denoted as "Fixed".
 Use 1/16" x 1 5/16" slotted holes for 1" φ bolts on all flange connection plates at connections denoted as "Slotted".
 Bolt holes in stringer flanges and floorbeam flanges shall be 1/16" φ holes for 1" φ bolts.



Notes:
 φ Denotes 1" φ high-strength bolt.
 For End Floorbeam details, see sheets 54 and 55 of 79.
 For Intermediate Floorbeam details, see sheets 56 thru 57 of 79.
 For additional notes and locations of Details A and B, see sheet 60 of 79.

NOTE:
 BOLTS IN SLOTTED CONNECTION SHALL BE FINGER TIGHT UNTIL SLAB IS POURED. BOLTS SHALL BE FULLY TIGHTENED AFTER SLAB HAS BEEN POURED. SEE SHEET 4 OF 79.

L:\ROCKFORD\626802\0-ADD_Sheets\61 Stringer Details.dgn

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

HNTB

DESIGNED - PA, JDJ, BPD, CJW	REVISED - ADDENDUM 1	4-25-11
DRAWN - GLD	REVISED -	
CHECKED - RJK	REVISED -	
DATE - 02/04/2011	REVISED -	

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

SCALE:	SHEET NO. 61 OF 79 SHEETS	STA. 47+00.74 TO STA. 52+63.50
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**STRINGER CONNECTION DETAILS
 STRUCTURE NO. 101-6108**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	187
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-5099165				