

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	BIKE/PED TRAILS	ROADWAY	ROADWAY	SAFETY	BRIDGE	WATER MAIN ELEC. DISTRIB.
					CMAQ/ITEP/STP 80/20	100% STATE	100% STATE	100% STATE		100% LOCAL
					0028	0001	0004	0021	0008	0043
	42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	7,632		7,632				
	40702700	FURNISH PROFILOGRAPH	L SUM	1		1				
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	699				699		
	42400800	DETECTABLE WARNINGS	SQ FT	50				50		
	44000100	PAVEMENT REMOVAL	SQ YD	622		504				118
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	2,400		828	1,572			
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,823			1,823			
	44000600	SIDEWALK REMOVAL	SQ FT	174			174			
	44004250	PAVED SHOULDER REMOVAL	SQ YD	2,146			2,146			
	44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	113			113			
	44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	171			53			118
	48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	1,300			1,300			
	48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	359		359				
	48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1,300			1,300			
	48301000	PROTECTIVE COAT	SQ YD	15,264		15,264				
	50105220	PIPE CULVERT REMOVAL	FOOT	215			215			
	50200100	STRUCTURE EXCAVATION	CU YD	756					756	
	50200300	COFFERDAM EXCAVATION	CU YD	1,730	605				1,125	
	50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1					1	
	50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1	1					
	50201123	COFFERDAM (TYPE 2) (LOCATION - 3)	EACH	1	1					
	50201124	COFFERDAM (TYPE 2) (LOCATION - 4)	EACH	1					1	
	50201125	COFFERDAM (TYPE 2) (LOCATION - 5)	EACH	1					1	
	50300225	CONCRETE STRUCTURES	CU YD	2457.0	860.0				1,597.0	
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	1465.1					1,465.1	
	50300260	BRIDGE DECK GROOVING	SQ YD	4,860					4,860	
	50300265	SEAL COAT CONCRETE	CU YD	733.6					733.6	
	50300280	CONCRETE ENCASEMENT	CU YD	14.2	7.1				7.1	
	50300300	PROTECTIVE COAT	SQ YD	6,139					6,139	
	50500505	STUD SHEAR CONNECTORS	EACH	14,277					14,277	
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	733,090	183,280				549,810	
	50800515	BAR SPLICERS	EACH	91					91	
	51201600	FURNISHING STEEL PILES HP12X53	FOOT	2,808					2,808	
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	8,866	3,103				5,763	
	51202305	DRIVING PILES	FOOT	11,674					11,674	
	51203600	TEST PILE STEEL HP12X53	EACH	6					6	

PLOT SCALE: 1/8" = 1'-0"
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FILE NAME =	DESIGNED - MAC	REVISED - Δ ADDENDUM 1-6-12
... \prpln-ABC-sht-soq-02.dgn	DRAWN - TMB	REVISED -
USER NAME = mooleman	CHECKED - RMT	REVISED -
PLOT DATE = 12/8/2011	DATE - 10/23/2011	REVISED -



CITY OF ST. CHARLES

SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET NO. 2 OF 9 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-0092-00-BR	KANE	440	5
CONTRACT NO. 63650				
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	BIKE/PED TRAILS	ROADWAY	ROADWAY	SAFETY	BRIDGE	WATER MAIN ELEC. DISTRIB.
					CMAQ/ITEP/STP 80/20 0028	100% STATE 0001	100% STATE 0004	100% STATE 0021	0008	100% LOCAL 0043
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	43		29	14			
	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2		1	1			
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	22		16	6			
*	XX008436	VALVE VAULTS, 5'-DIAMETER	EACH	13						13
	60500050	REMOVING CATCH BASINS	EACH	2			2			
	60500060	REMOVING INLETS	EACH	3			3			
	X6060340	GUTTER OUTLET (SPECIAL)	EACH	6			6			
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	26		26				
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	7,200		4,090	3,110			
*	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	447				447		
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4				4		
*	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4				4		
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	240		240		240		
*	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1		1		1		
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2		2		2		
	67100100	MOBILIZATION	L SUM	1		1				
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	20				20		
	70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	182				182		
	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	26,657				26,657		
	70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	2,018				2,018		
	70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	883				883		
	70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	106				106		
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	11,089				11,089		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	980				980		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300				300		
	72000100	SIGN PANEL - TYPE 1	SQ FT	235				235		
	72000200	SIGN PANEL - TYPE 2	SQ FT	50				50		
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	5				5		
	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	5				5		
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1				1		
	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1				1		
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	436				436		
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	728				728		
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	18,386				18,386		
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,655				2,655		
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	159				159		

PLOT SCALE: 1/8" = 1'-0" LOCAL WORKSPACE: C:\Users\mcoleman\Documents\Projects\104-00092-00-BR\104-00092-00-BR.dwg
 USER NAME: mcoleman
 PLOT DATE: 1/5/2012

FILE NAME = ...prpln-ABC-sht-soq-04.dgn	DESIGNED - MAC	REVISED - ADDENDUM 1-6-12
USER NAME = mcoleman	DRAWN - TMB	REVISED -
PLOT DATE = 1/5/2012	CHECKED - RMT	REVISED -
	DATE - 10/23/2011	REVISED -



CITY OF ST. CHARLES

SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 4 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	7
CONTRACT NO. 63650				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	BIKE/PED TRAILS	ROADWAY	ROADWAY	SAFETY	BRIDGE	WATER MAIN ELEC. DISTRIB.
					CMAQ/ITEP/STP 80/20	100% STATE	100% STATE	100% STATE		100% LOCAL
					0028	0001	0004	0021	0008	0043
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	290				290		
*	78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	292				292		
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	14,451				14,451		
*	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1,299				1,299		
*	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	201				201		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	369				369		
*	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	68				68		
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	6				6		
*	78200530	BARRIER WALL MARKERS, TYPE C	EACH	40				40		
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4				4		
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	5,874			5,874			
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	109			109			
*	80500010	ELECTRIC SERVICE INSTALLATION - GROUND MOUNTED	EACH	2				2		
*	81023750	CONDUIT ENCASED IN CONCRETE, 3" DIA., PVC	FOOT	1,070						1,070
*	81024600	CONDUIT ENCASED, CONCRETE, 6" DIA., PVC 1 WIDE X 1 HIGH	FOOT	560						560
*	81026200	CONDUIT ENCASED, REINFORCED CONCRETE, 6" DIA., PVC 3 WIDE X 2 HIGH	FOOT	2,079						2,079
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3,851				3,616		235
*	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	76				76		
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	108				92		16
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	618				618		
*	81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	2,709						2,709
*	81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	460				460		
*	81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	2,414				1,207		1,207
*	81101205	CONDUIT ATTACHED TO STRUCTURE, 6" DIA., PVC COATED GALVANIZED STEEL	FOOT	6,870						6,870
*	81200210	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., PVC	FOOT	322						322
*	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	240						240
*	81300420	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 8" X 6"	EACH	19						19
*	81300610	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 14" X 12" X 6"	EACH	2				2		
*	81400100	HANDHOLE	EACH	18				18		
*	81400200	HEAVY-DUTY HANDHOLE	EACH	7				7		
*	81400300	DOUBLE HANDHOLE	EACH	2				2		
*	81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	5,587						5,587
*	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	11,857						11,857
*	81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	129						129
*	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	21				21		
*	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	2				2		

PLOT SCALE: 1/4" = 1'-0" (1/4" = 1'-0")
 FILE NAME: ...\\prpln-abc-sht-a0q-05.dgn
 USER NAME: mcoleman
 PLOT DATE: 1/5/2012

DESIGNED - MAC	REVISED - ADDENDUM 1-6-12
DRAWN - TMB	REVISED -
CHECKED - RMT	REVISED -
DATE - 10/23/2011	REVISED -



CITY OF ST. CHARLES

SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET NO. 5 OF 9 SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	8
CONTRACT NO. 63650				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	BIKE/PED TRAILS	ROADWAY	ROADWAY	SAFETY	BRIDGE	WATER MAIN ELEC. DISTRIB.
					CMAQ/ITEP/STP 80/20	100% STATE	100% STATE	100% STATE		100% LOCAL
					0028	0001	0004	0021	0008	0043
*	X0325923	CONDUIT, FLEXIBLE NON-METALLIC, WEATHERPROOF, 1" DIAMETER	FOOT	42						42
*	X0326962	TRANSFORMER PLATFORM	SQ.YD.	1						1
	X0327008	REMOVE AND RELOCATE SIGN (SPECIAL)	EACH	1				1		
	X0327218	DETENTION BASIN OUTLET STRUCTURE	EACH	1		1				
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	214	107				107	
	X2080250	TRENCH BACKFILL, SPECIAL	CU YD	2,295		1,348				947
*	X2502014	SEEDING, CLASS 4A (MODIFIED)	ACRE	3.2		3.2				
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	9			9			
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1			1			
	X4023000	TEMPORARY ACCESS (ROAD)	EACH	2		2				
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	12,534			12,534			
	X5051401	FURNISHING AND ERECTING STRUCTURAL STEEL BRIDGE NO. 1	L SUM	1	1					
	X5051402	FURNISHING AND ERECTING STRUCTURAL STEEL BRIDGE NO. 2	L SUM	1	1					
*	X5091725	BICYCLE RAILING (SPECIAL)	FOOT	4,600	4,600					
*	X5091730	BRIDGE FENCE RAILING (SPECIAL)	FOOT	100	100					
	X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	18		18				
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1				1		
*	X8130110	JUNCTION BOX (SPECIAL)	EACH	1						1
*	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	848				664		184
	XX000366	CLAY LINER	CU FT	68,780		68,780				
	XX005913	TEMPORARY ACCESS CAUSEWAY	L SUM	1		1				
	XX005963	ANTI-GRAFFITI COATING	SQ FT	26,339						26,339
	XX005968	TURBIDITY CURTAIN	SQ YD	1,295		1,295				
	XX006722	TEMPORARY AGGREGATE BERM-COURSE AGGREGATE	TON	50		50				
	XX006723	TEMPORARY AGGREGATE BERM-RIPRAP	TON	110		110				
	XX006729	PERIMETER EROSION BARRIER, ROLLED EXCELSIOR	FOOT	500		500				
	XX007354	REMOVE, SALVAGE AND REPLACE FRAME AND GRATE	EACH	1			1			
	XX007605	LIMESTONE SCREENING SURFACE 3" (NEW PATHS)	SQ YD	2,720	2,720					
	XX008003	FORM LINER TEXTURED SURFACE (SPECIAL)	SQ FT	8,238			8,238			
	XX008287	BOARDWALK STRUCTURE	SQ FT	15,550	15,550					
	XX008423	PRECAST CONCRETE LAGGING	SQ FT	5,916					5,916	
	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	19,329		11,790	7,539			
	Z0007118	UNTREATED TIMBER LAGGING	SQ FT	5,916			5,916			
*	Z0007124	STEEL RAILING (SPECIAL)	FOOT	3,087				3,087		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1				
	Z0018010	DRAINAGE SCUPPERS, DS-33	EACH	13					13	
	Z0018800	DRAINAGE SYSTEM	L SUM	1					1	

PLOT SCALE: 1"=100' LOCAL WORKSPACE: C:\Users\mcoleman\Documents\Projects\10-23-2011\10-23-2011.dwg FULL SIZE: 11x17.dwg USER NAME: mcoleman PLOT DATE: 1/5/2012

FILE NAME =	DESIGNED - MAC	REVISED - ADDENDUM 1-6-12
...prpln-ABC-ht-soq-08.dgn	DRAWN - TMB	REVISED -
USER NAME = mcoleman	CHECKED - RMT	REVISED -
PLOT DATE = 1/5/2012	DATE - 10/23/2011	REVISED -



CITY OF ST. CHARLES

SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 8 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	11
CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	BIKE/PED TRAILS	ROADWAY	ROADWAY	SAFETY	BRIDGE	WATER MAIN ELEC. DISTRIB.
					CMAQ/ITEP/STP 80/20 0028	100% STATE 0001	100% STATE 0004	100% STATE 0021	0008	100% LOCAL 0043
*	XX008631	DRILL EXISTING MANHOLE OR HANDHOLE	EACH	12						12
	Z0019600	DUST CONTROL WATERING	UNIT	100		100				
	Z0022800	FENCE REMOVAL	FOOT	330			330			
	Z0026402	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	2,171			2,171			
	Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2				2		
	Z0030340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2				2		
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	63				63		
*	Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1				1		
	Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	1,483			1,483			
	Z0034393	MODULAR EXPANSION JOINT 9"	FOOT	73					73	
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	1,117					1,117	
	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	2,014		2,014				
	Z0076600	TRAINEES	HOUR	1,500						
*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1				1		
*	X5610700	WATER MAIN REMOVAL	FOOT	435						435
	Z0077900	WOOD POST AND RAIL FENCE	FOOT	350			350			
	XX008616	HOT-MIX ASPHALT SURFACE COURSE, SPECIAL	SQ.YD.	2,897	2,897					
	XX008617	RAIL BASE	FOOT	669				669		
*	XX008618	WATERMAIN, SPECIAL	L SUM	1						1
	XX008619	FURNISHING CABLE STAY SYSTEM	L SUM	1	1					
*	XX008620	BOARDWALK STRUCTURE (SPECIAL)	SQ FT	5,230	5,230					
*	XX008621	PRECAST CONCRETE PYLON TYPE A	EACH	18	18					
*	XX008622	PRECAST CONCRETE PYLON TYPE B	EACH	4	4					
*	XX008623	BRIDGE PYLON FACE LIGHT	EACH	22						22
*	81026464	CONDUIT ENCASED, REINFORCED CONCRETE, 6" DIA., PVC 3 WIDE X 4 HIGH	FOOT	103						103
*	XX008624	ELECTRICAL MANHOLE, TYPE I, SPECIAL	EACH	4						4
*	XX008625	ELECTRICAL MANHOLE, TYPE II, SPECIAL	EACH	3						3
	XX008626	TEMPORARY BRIDGE	L SUM	1					1	
*	XX008627	DUCTILE IRON WATERMAIN WITHIN 24" CASING PIPE, OPEN CUT, 12"	FOOT	50						50
*	XX008628	DUCTILE IRON WATERMAIN WITHIN 30" CASING PIPE, OPEN CUT, 16"	FOOT	100						100
	XX008629	HAUL ROAD - EAST	L SUM	1		1				
	XX008630	HAUL ROAD - WEST	L SUM	1		1				

• • CONSTRUCTION TYPE CODE 0042

PLOT SCALE: 1"=100' LOCAL WORKSPACE: \\p01\work\proj\04-00092-00-01\04-00092-00-01.dgn USER NAME: mcoleman PLOT DATE: 1/5/2012

FILE NAME *	DESIGNED - MAC	REVISED - ADDENDUM 1-6-12
...prpln-ABC-sht-a0q-03.dgn	DRAWN - TMB	REVISED -
USER NAME = mcoleman	CHECKED - RMT	REVISED -
PLOT DATE = 1/5/2012	DATE - 10/23/2011	REVISED -



CITY OF ST. CHARLES

SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET NO. 9 OF 9 SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	12
CONTRACT NO. 63650				
ILLINOIS FED. AID PROJECT				

Geo Services Inc. SOIL BORING LOG PAGE 1 of 1
 DATE 10/11/2011
 LOGGED BY DR
 GSI JOB No. 10181

ROUTE IL Rte. 25 & IL Rte. 31 DESCRIPTION Red Gate Road Over The Fox River
 SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
 COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. ---
 Station ---
 BORING NO. **BW-01**
 Station 6164.50
 Offset Baseline
 Ground Surface Elev. 718.6

DEPTH (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elevation: First Encounter (ft)	Upon Completion (ft)	After (ft)	DEPTH (ft)	UCS (tsf)	MOIST (%)
0-23	AS	23	n/a	n/a	692.6	700.6		0-11		
23-31	NP	6						11-14		
31-33	NP	3						14-24		
33-35	NP	3						24-25		
35-37	NP	3						25-28		
37-40	NP	3						28-30		
40-42	NP	3						30-31		
42-44	NP	3						31-32		
44-46	NP	3						32-33		
46-48	NP	3						33-34		
48-50	NP	3						34-35		
50-52	NP	3						35-36		
52-54	NP	3						36-37		
54-56	NP	3						37-38		
56-58	NP	3						38-39		
58-60	NP	3						39-40		
60-62	NP	3						40-41		
62-64	NP	3						41-42		
64-66	NP	3						42-43		
66-68	NP	3						43-44		
68-70	NP	3						44-45		
70-72	NP	3						45-46		
72-74	NP	3						46-47		
74-76	NP	3						47-48		
76-78	NP	3						48-49		
78-80	NP	3						49-50		
80-82	NP	3						50-51		
82-84	NP	3						51-52		
84-86	NP	3						52-53		
86-88	NP	3						53-54		
88-90	NP	3						54-55		
90-92	NP	3						55-56		
92-94	NP	3						56-57		
94-96	NP	3						57-58		
96-98	NP	3						58-59		
98-100	NP	3						59-60		

6.0' CLAYEY TOPSOIL-dark brown 718.1

SAND & GRAVEL-brown-medium dense (A-1)

CLAY LOAM-brown-hard (A-6)

SAND-brown & gray-medium dense (A-3)

SAND & GRAVEL-brown & gray-medium dense (A-1)

SAND-brown & gray-medium dense (A-3)

SAND & GRAVEL-brown & gray-medium dense (A-1)

SAND with Gravel-brown & gray-dense (A-1-b)

SAND & GRAVEL-brown & gray-dense (A-1)

End Of Boring @ -30.0' Hollow Stem Augers Diedrich Automatic Hammer

Geo Services Inc. SOIL BORING LOG PAGE 1 of 1
 DATE 10/11/2011
 LOGGED BY DR
 GSI JOB No. 10181

ROUTE IL Rte. 25 & IL Rte. 31 DESCRIPTION Red Gate Road Over The Fox River
 SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
 COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. ---
 Station ---
 BORING NO. **BW-02**
 Station 6184.00
 Offset Baseline
 Ground Surface Elev. 711.6

DEPTH (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elevation: First Encounter (ft)	Upon Completion (ft)	After (ft)	DEPTH (ft)	UCS (tsf)	MOIST (%)
0-24	AS	24	n/a	n/a	692.6	700.6		0-2		
24-26	NP	2						2-3		
26-28	NP	2						3-5		
28-30	NP	2						5-25		
30-32	NP	2						25-28		
32-34	NP	2						28-30		
34-36	NP	2						30-31		
36-38	NP	2						31-32		
38-40	NP	2						32-33		
40-42	NP	2						33-34		
42-44	NP	2						34-35		
44-46	NP	2						35-36		
46-48	NP	2						36-37		
48-50	NP	2						37-38		
50-52	NP	2						38-39		
52-54	NP	2						39-40		
54-56	NP	2						40-41		
56-58	NP	2						41-42		
58-60	NP	2						42-43		
60-62	NP	2						43-44		
62-64	NP	2						44-45		
64-66	NP	2						45-46		
66-68	NP	2						46-47		
68-70	NP	2						47-48		
70-72	NP	2						48-49		
72-74	NP	2						49-50		
74-76	NP	2						50-51		
76-78	NP	2						51-52		
78-80	NP	2						52-53		
80-82	NP	2						53-54		
82-84	NP	2						54-55		
84-86	NP	2						55-56		
86-88	NP	2						56-57		
88-90	NP	2						57-58		
90-92	NP	2						58-59		
92-94	NP	2						59-60		
94-96	NP	2						60-61		
96-98	NP	2						61-62		
98-100	NP	2						62-63		

6.0' SANDY TOPSOIL-dark brown 711.1

SILTY CLAY-dark brown-very stiff (A-6)

SAND & GRAVEL-brown & gray-medium dense to dense (A-1)

SAND & GRAVEL-brown & gray-medium dense (A-1)

End Of Boring @ -30.0' Hollow Stem Augers Diedrich Automatic Hammer

BOARDWALK SOIL BORING LOG

REVISED 01/06/2012

FILE NAME =	DESIGNED - BD/WS	REVISED
USER NAME = TERRA	DRAWN - BD/JW/KC	REVISED -
PLOT DATE = 12/29/2011	CHECKED - WS	REVISED -
	DATE - 10/24/2011	REVISED -



CITY OF ST. CHARLES

RED GATE ROAD
 SOIL BORING LOGS - BOARDWALK (1 OF 2)

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
--------	---------------------	--------------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	77
			CONTRACT NO. 63650	
ILLINOIS FED. AID PROJECT				

Soil Borings 01.dgn

SOIL BORING LOG

PAGE 1 of 1
DATE 10/11/2011
LOGGED BY DR
GSI JOB No. 10191

ROUTE IL Rte. 25 & IL Rte. 31 DESCRIPTION Red Gate Road Over The Fox River
SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. ---
Station ---
BORING NO. **BW-03**
Station 622+00
Offset Baseline
Ground Surface Elev. 705.0

DEPTH (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elevation:	First Encounter	Upon Completion	After Hrs.	DEPTH (ft)	UCS (tsf)	MOIST (%)
0			n/a	n/a					0		
1									1		
2									2		
3	2.0P	20							3	NP	6
4									4		
5	2.25P	18							5	NP	5
6									6		
7	NP	3							7	NP	12
8									8		
9									9		
10	NP	3							10	NP	6
11									11		
12									12		
13									13		
14	NP	15							14		
15									15		
16									16		
17									17		
18									18		
19									19		
20									20		

6.0" SANDY TOPSOIL-dark brown 704.5
CLAY LOAM-brown-very stiff (A-6)
SAND & GRAVEL-brown & gray-medium dense to dense (A-1)
SAND & GRAVEL-brown-medium dense (A-1)
SAND with Gravel-brown & gray-medium dense (A-1-b)
SAND & GRAVEL-brown & gray-medium dense (A-1)
SAND-gray-medium dense (A-3)

End Of Boring @ -30.0'
Hollow Stem Augers
Diedrich Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR-No Recovery PS-Pushed Spoon

SOIL BORING LOG

PAGE 1 of 1
DATE 10/12/2011
LOGGED BY DR
GSI JOB No. 10191

ROUTE IL Rte. 25 & IL Rte. 31 DESCRIPTION Red Gate Road Over The Fox River
SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. ---
Station ---
BORING NO. **BW-04**
Station 624+00
Offset Baseline
Ground Surface Elev. 714.0

DEPTH (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elevation:	First Encounter	Upon Completion	After Hrs.	DEPTH (ft)	UCS (tsf)	MOIST (%)
0			n/a	n/a					0		
1									1		
2									2		
3	NP	9							3	NP	3
4									4		
5	NP	3							5	NP	21
6									6		
7									7		
8									8		
9									9		
10									10		
11	NP	4							11	NP	14
12									12		
13									13		
14									14		
15									15		
16									16		
17									17		
18									18		
19									19		
20									20		

6.0" CLAYEY TOPSOIL-dark brown 713.0
CLAYEY SAND-dark brown-loose (A-2/A-3)
SAND with Gravel-brown & gray-loose (A-1-b)
SAND-brown & gray-medium dense to dense (A-3)
SAND & GRAVEL-brown & gray-medium dense (A-1)
SAND & GRAVEL-brown & gray-medium dense to dense (A-1)
End Of Boring @ -30.0'
Hollow Stem Augers
Diedrich Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR-No Recovery PS-Pushed Spoon

BOARDWALK SOIL BORING LOG

REVISION 01/06/2012

FILE NAME =	DESIGNED - BD/WS	REVISED
USER NAME = TERRA	DRAWN - BD/JW/KC	REVISED -
PLOT DATE = 12/29/2011	CHECKED - WS	REVISED -
	DATE - 10/24/2011	REVISED -

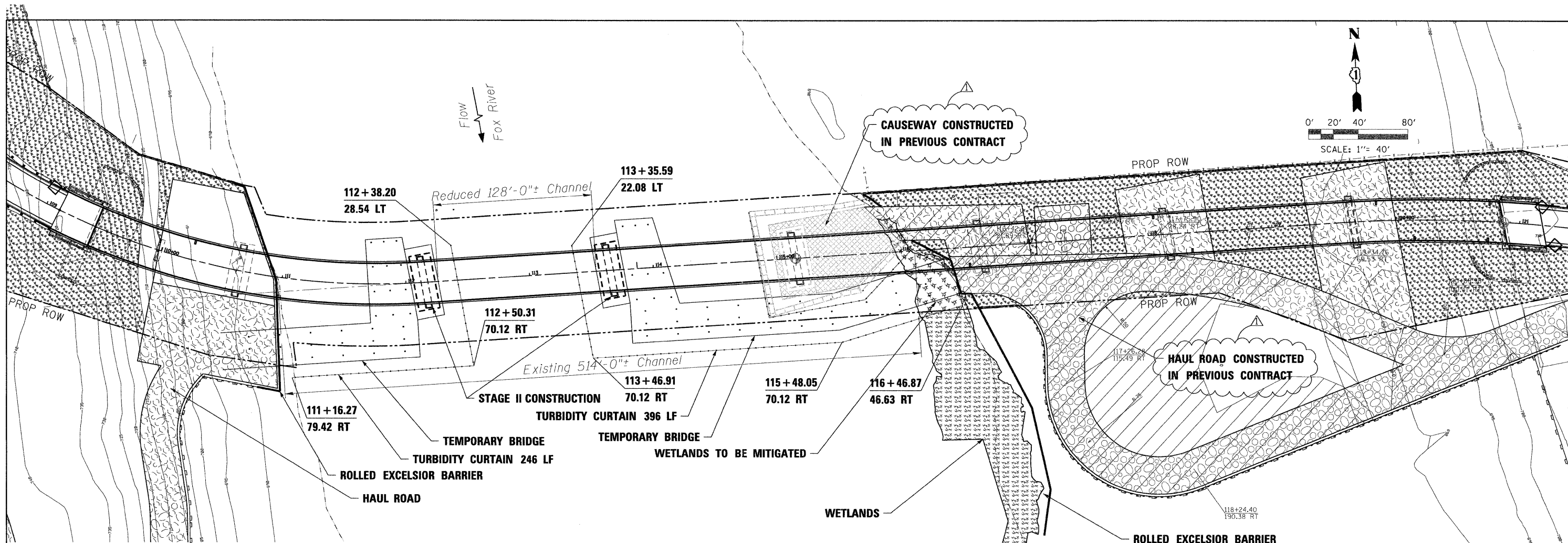


CITY OF ST. CHARLES

RED GATE ROAD			
SOIL BORING LOGS - BOARDWALK (2 OF 2)			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

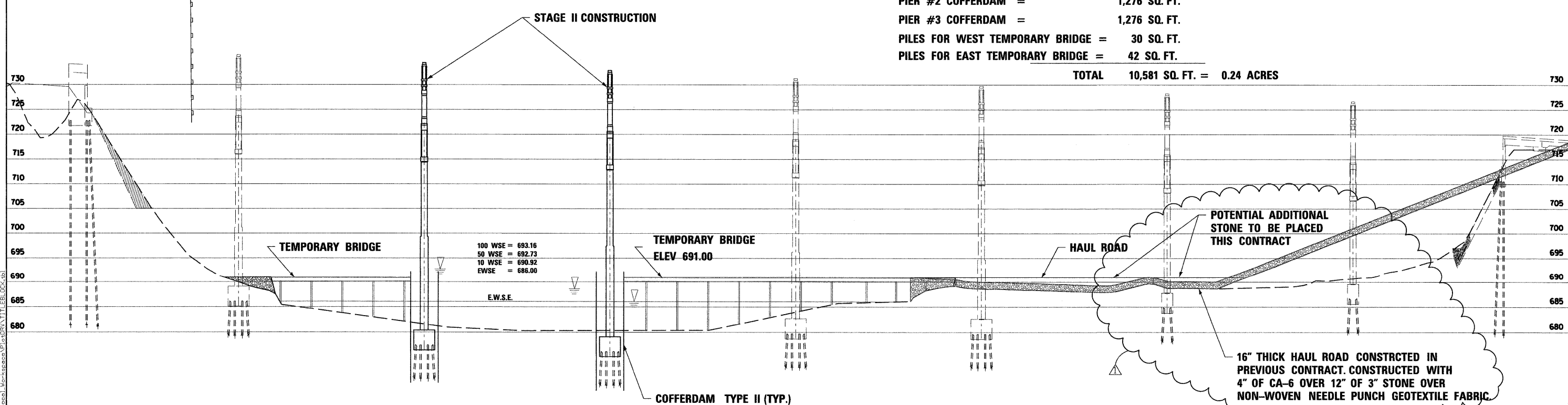
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	78
			CONTRACT NO. 63650	
ILLINOIS FED. AID PROJECT				

Soil Borings_02.dgn



DISTURBED AREAS WITHIN WATERS OF THE U.S.

CAUSEWAY =	7,957 SQ. FT.
PIER #2 COFFERDAM =	1,276 SQ. FT.
PIER #3 COFFERDAM =	1,276 SQ. FT.
PILES FOR WEST TEMPORARY BRIDGE =	30 SQ. FT.
PILES FOR EAST TEMPORARY BRIDGE =	42 SQ. FT.
TOTAL	10,581 SQ. FT. = 0.24 ACRES



PLOT SCALE: 1"=40'
 X:\1000\1023\Local_Workspace\1023\RedGate-04-04-stg2.dwg
 X:\1000\1023\Local_Workspace\1023\RedGate-04-04-stg2.dwg

FILE NAME =	DESIGNED - MAC	REVISED - ADDENDUM 1-6-12
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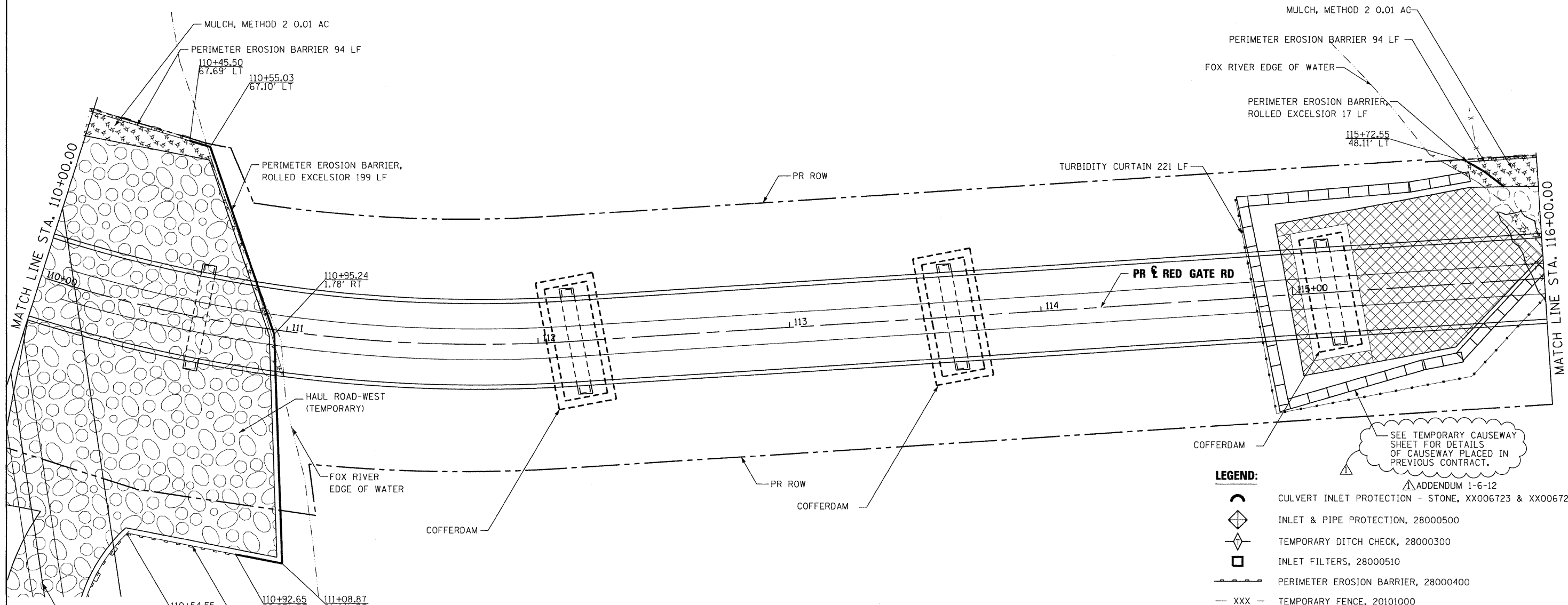
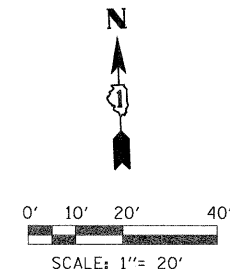


CITY OF ST. CHARLES

**FOX RIVER EROSION AND SEDIMENT CONTROL
RED GATE ROAD - STAGE 2**

SCALE: 1"=20' SHEET NO. 5 OF 23 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	106
CONTRACT NO. 63650				
ILLINOIS FED. AID PROJECT				



SEE TEMPORARY CAUSEWAY SHEET FOR DETAILS OF CAUSEWAY PLACED IN PREVIOUS CONTRACT.

- LEGEND:**
- ADDENDUM 1-6-12
CULVERT INLET PROTECTION - STONE, XX006723 & XX006723
 - INLET & PIPE PROTECTION, 28000500
 - TEMPORARY DITCH CHECK, 28000300
 - INLET FILTERS, 28000510
 - PERIMETER EROSION BARRIER, 28000400
 - TEMPORARY FENCE, 20101000
 - TURBIDITY CURTAIN, XX003967
 - PERIMETER EROSION BARRIER, ROLLED EXCELSIOR XX006729
 - SEDIMENT BASIN, 20200300
 - MULCH, METHOD 2, 25100115
 - RIP RAP, 28100105 & 28100107
 - STABILIZED CONSTRUCTION ENTRANCE, X0322671
 - HAUL ROAD

NOTE
 THE TOTAL ACREAGE OF DISTURBED AREA WITHIN THE FOX RIVER SHALL NOT EXCEED 0.25 AC AT ANY ONE TIME.
 TEMPORARY BRIDGE WILL BE USED TO ACCESS PIER #2 AND PIER #3 SEE SPECIFICATIONS FOR DETAIL
 SEE FOX RIVER EROSION AND SEDIMENT CONTROL SHEETS FOR DETAILS FOR WORK BETWEEN RIVER BANKS.
 ADJUST PERIMETER EROSION BARRIER ALONG RIVER AS NEEDED FOR ACCESS TO CAUSEWAY, TEMPORARY BRIDGE AND CONSTRUCTION OF PIER.

PLOT SCALE: 1"=20'
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 PLOT DATE: 1/4/2012

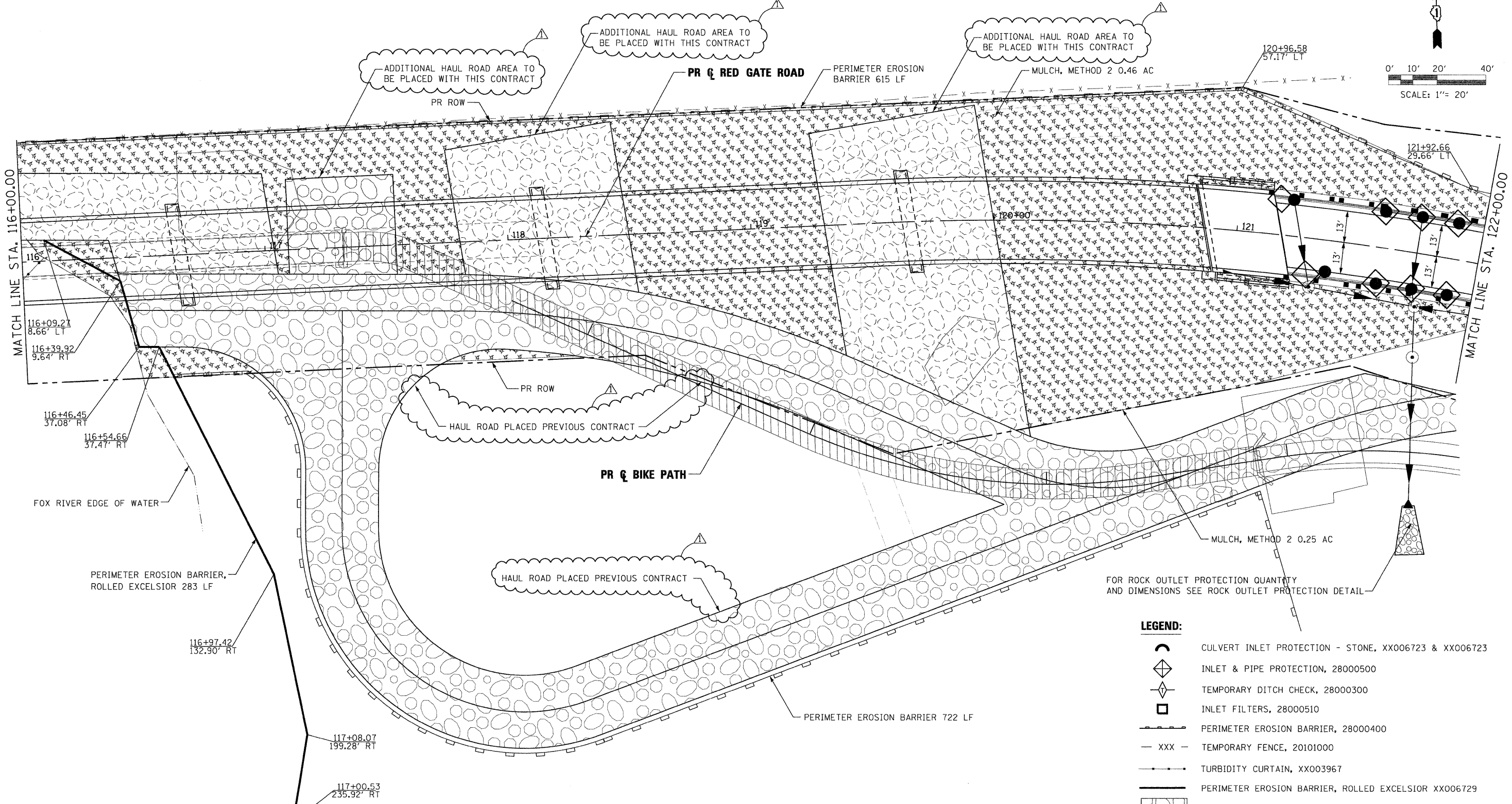
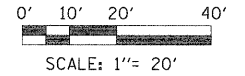
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PLOT DATE = 1/4/2012	DATE - 10/23/2011	REVISED -	















CITY OF ST. CHARLES

EROSION AND SEDIMENT CONTROL RED GATE ROAD		
SCALE: 1"=20'	SHEET NO. 9 OF 23 SHEETS	STA. 110+00.00 TO STA. 116+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	110
			CONTRACT NO.	63650
ILLINOIS FED. AID PROJECT				




LEGEND:

-  CULVERT INLET PROTECTION - STONE, XX006723 & XX006723
-  INLET & PIPE PROTECTION, 28000500
-  TEMPORARY DITCH CHECK, 28000300
-  INLET FILTERS, 28000510
-  PERIMETER EROSION BARRIER, 28000400
-  TEMPORARY FENCE, 20101000
-  TURBIDITY CURTAIN, XX003967
-  PERIMETER EROSION BARRIER, ROLLED EXCELSIOR XX006729
-  HAUL ROAD
-  MULCH, METHOD 2, 25100115
-  RIP RAP, 28100105 & 28100107
-  STABILIZED CONSTRUCTION ENTRANCE, X0322671

NOTE

MULCH SEEDED AREAS AFTER REMOVAL OF THE HAUL ROAD

PLOT SCALE: 1"=20' LOCAL WORKSPACE: \\ppln-abc-sht-RedGate-es-05.dgn X:\300005\300005\local\workspace\ppln-abc-sht-RedGate-es-05.dgn

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PLOT DATE = 1/4/2012	DATE - 10/23/2011	REVISED -



CITY OF ST. CHARLES

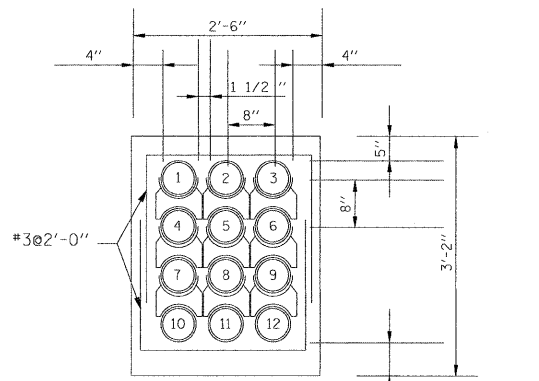
**EROSION AND SEDIMENT CONTROL
RED GATE ROAD**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	111
CONTRACT NO. 63650				
ILLINOIS FED. AID PROJECT				

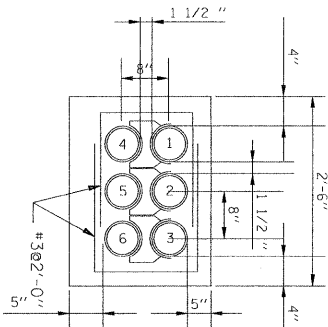
SCALE: 1"=20' SHEET NO. 10 OF 23 SHEETS STA. 116+00.00 TO STA. 122+00.00

DATE: _____
 BY: _____
 PLAN: _____
 REVISIONS: _____
 CHECKED: _____
 ALIGNED: _____
 NOTE BOOK NO.: _____
 CADD FILE NAME: _____

DATE: _____
 BY: _____
 PROFILE: _____
 REVISIONS: _____
 CHECKED: _____
 GRADES: _____
 NOTE BOOK NO.: _____
 PROFILE NOTATIONS: _____

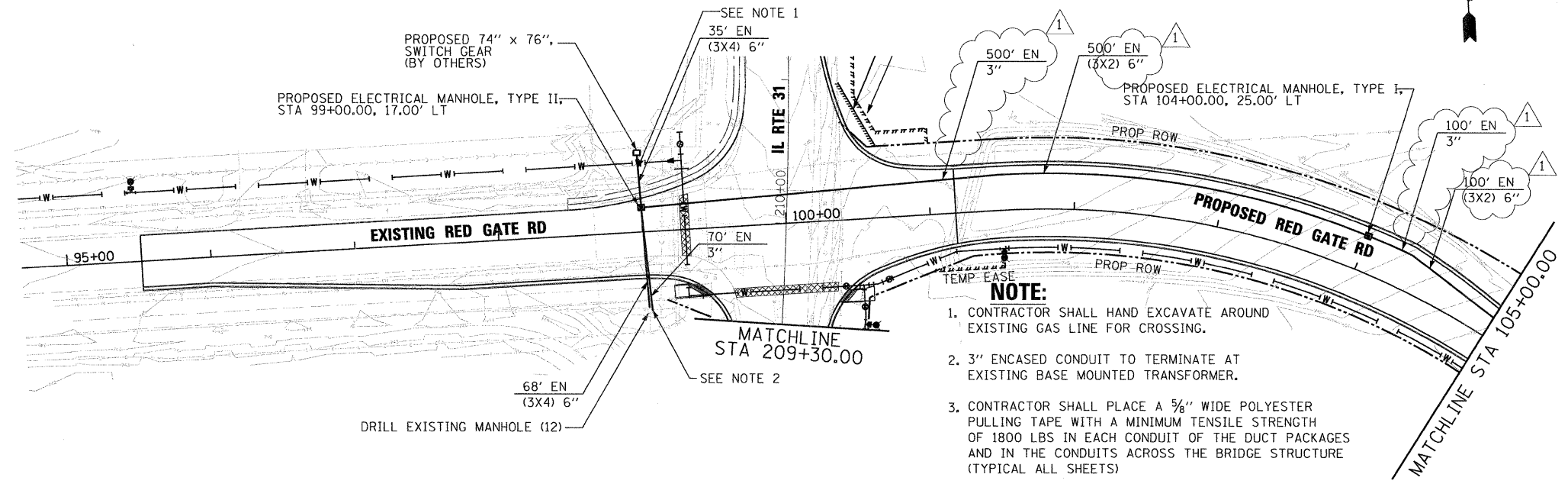


3 X 4 ELECTRICAL DUCT BANK

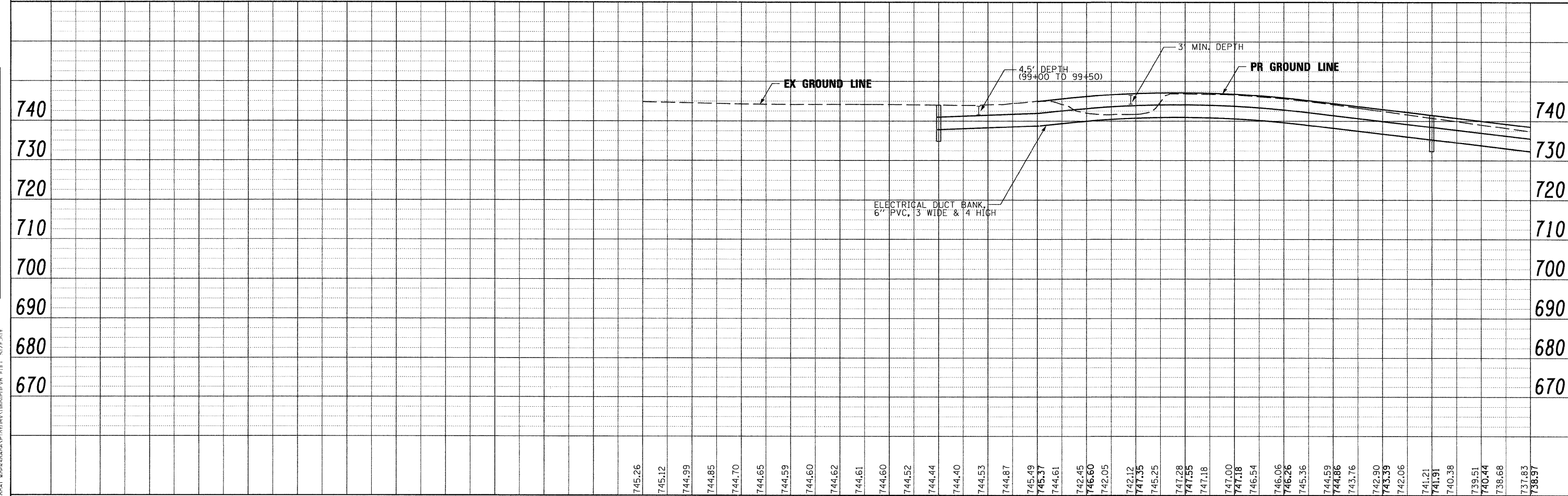


3 X 2 ELECTRICAL DUCT BANK

1 REVISED 01/06/2012



- NOTE:**
- CONTRACTOR SHALL HAND EXCAVATE AROUND EXISTING GAS LINE FOR CROSSING.
 - 3" ENCASED CONDUIT TO TERMINATE AT EXISTING BASE MOUNTED TRANSFORMER.
 - CONTRACTOR SHALL PLACE A 5/8" WIDE POLYESTER PULLING TAPE WITH A MINIMUM TENSILE STRENGTH OF 1800 LBS IN EACH CONDUIT OF THE DUCT PACKAGES AND IN THE CONDUITS ACROSS THE BRIDGE STRUCTURE (TYPICAL ALL SHEETS)
 - CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES
 - FOR WATERMAIN DEPTHS AND LOCATIONS, SEE PROPOSED WATERMAIN PLANS.



FILE NAME = ...RedGate_580Dist_PP_1.dgn
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 PLOT DATE = 1/4/2012

DESIGNED - BC
 DRAWN - BC
 CHECKED - MPM
 DATE - 10/23/2011



CITY OF ST. CHARLES

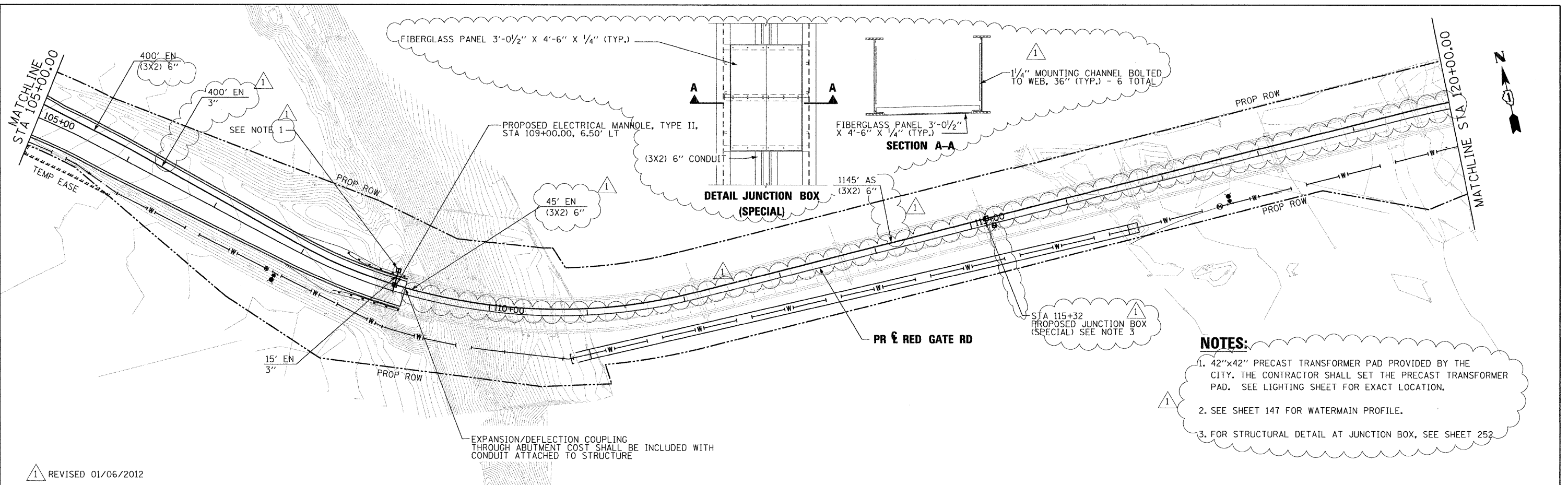
ELECTRICAL DISTRIBUTION PLAN & PROFILE
 RED GATE ROAD
 SCALE: 1"=50' SHEET NO. 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	182
CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	FILED	
	CADD FILE NAME	

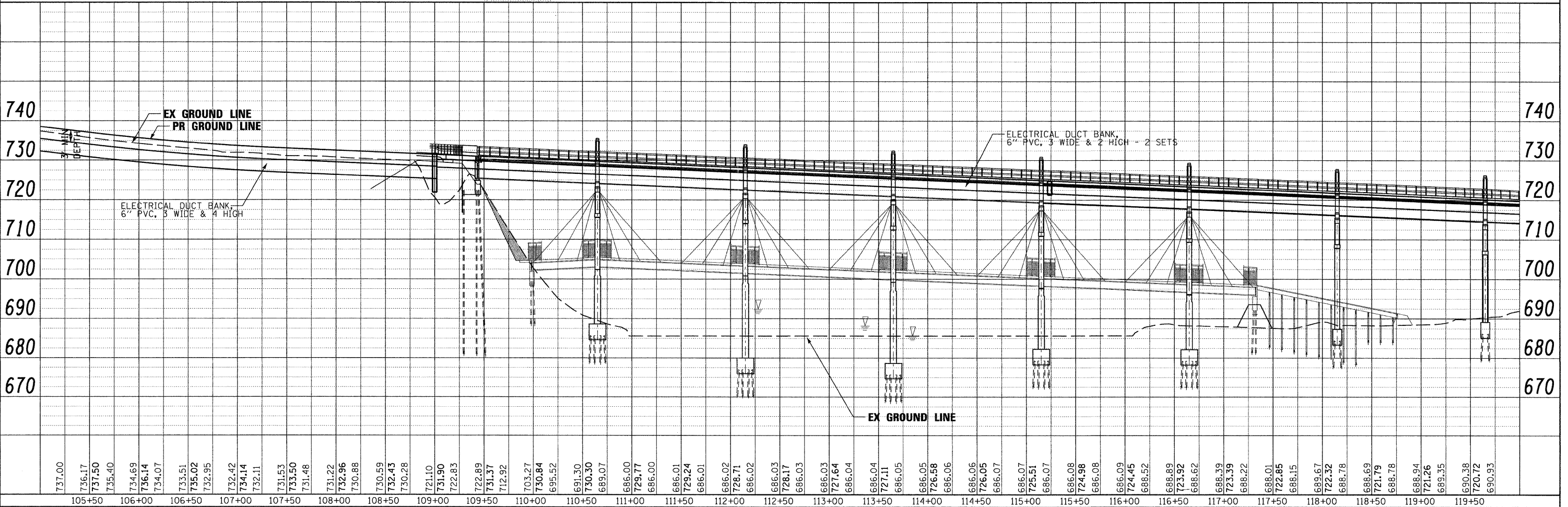
PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	FILED	
	STRUCTURE NOTATIONS CHKD	

PLOT SCALE: 1"=50'
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- NOTES:**
- 42"x42" PRECAST TRANSFORMER PAD PROVIDED BY THE CITY. THE CONTRACTOR SHALL SET THE PRECAST TRANSFORMER PAD. SEE LIGHTING SHEET FOR EXACT LOCATION.
 - SEE SHEET 147 FOR WATERMAIN PROFILE.
 - FOR STRUCTURAL DETAIL AT JUNCTION BOX, SEE SHEET 252

1 REVISED 01/06/2012



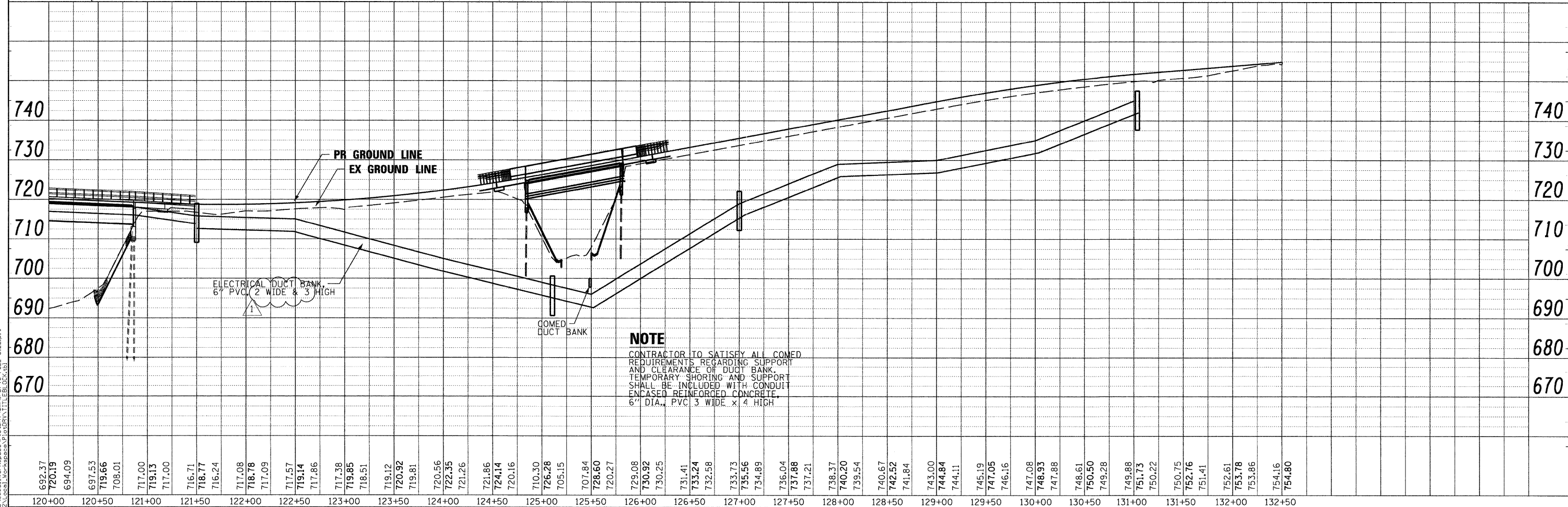
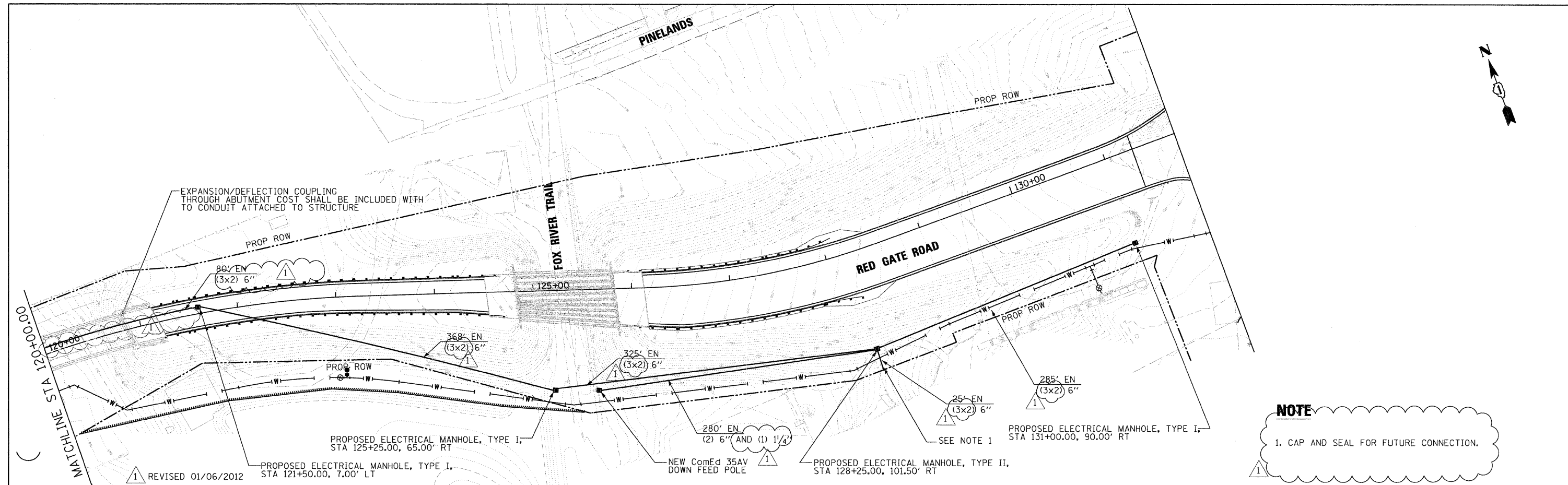
FILE NAME =	DESIGNED - BC	REVISED - GHT	 CITY OF ST. CHARLES	ELECTRICAL DISTRIBUTION PLAN & PROFILE RED GATE ROAD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = tblank	DRAWN - BC	REVISED -				04-00092-00-BR	KANE	440	183	
PLOT DATE = 1/4/2012	CHECKED - MPM	REVISED -				CONTRACT NO. 63650				
	DATE - 10/23/2011	REVISED -				ILLINOIS FED. AID PROJECT				

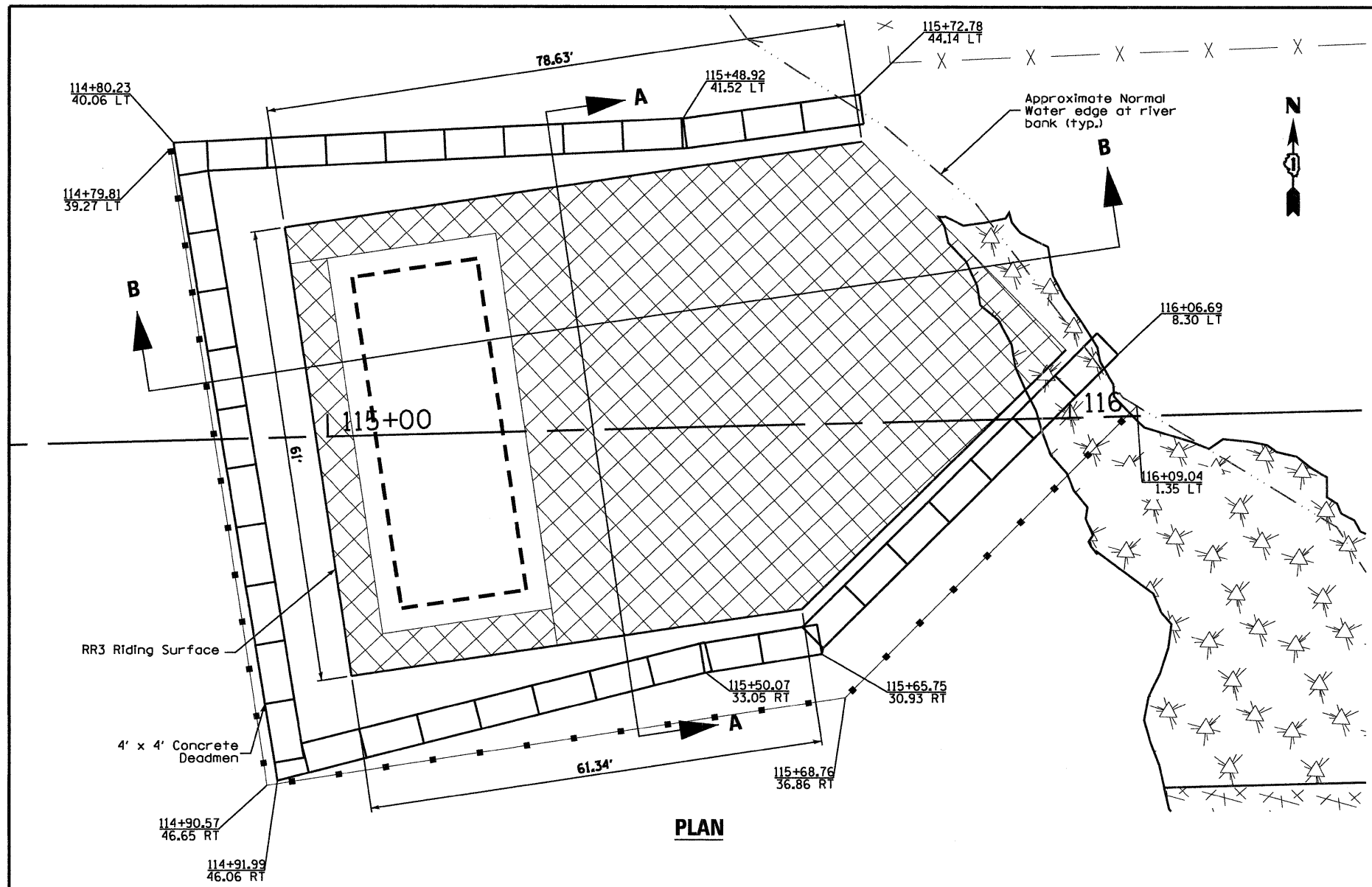
SCALE: 1"=50' SHEET NO. 2 OF 5 SHEETS STA. TO STA.

DATE: _____ BY: _____
 CHECKED: _____
 ALIGNED: _____
 NOTE BOOK: _____
 NO. _____

DATE: _____ BY: _____
 CHECKED: _____
 GRADES: _____
 PROFILE: _____
 NO. _____

PLOT SCALE: E: 1/8"=1'-0"
 A: 1/16"=1'-0"
 LOCAL WORKSPACE: P:\STDR\A\...
 PLOT DATE: 1/4/2012

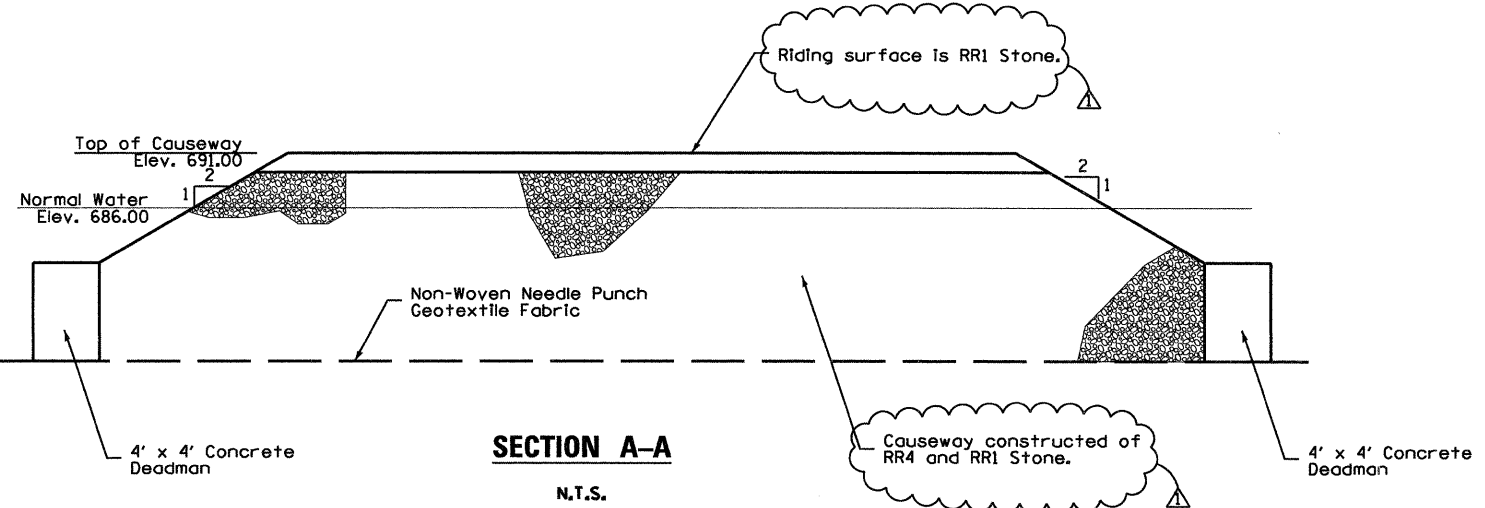




NOTE

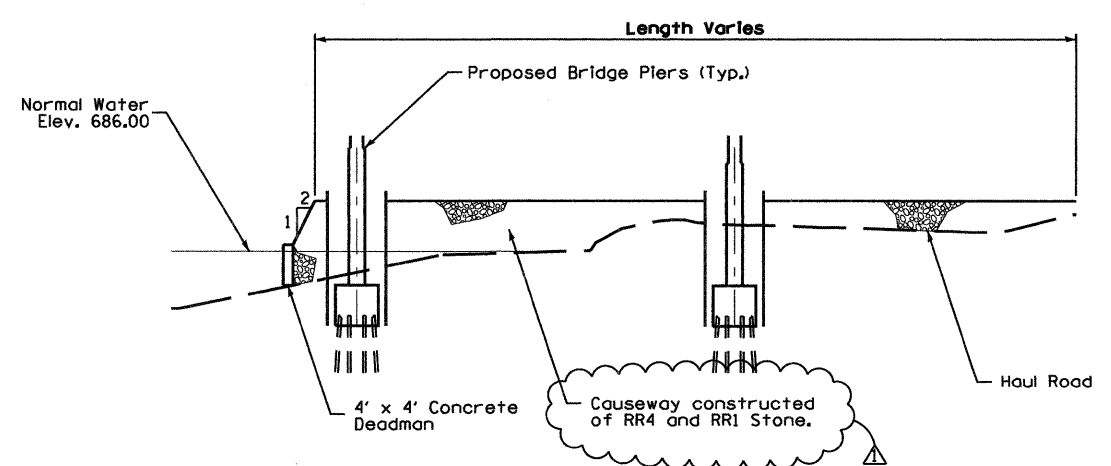
1. An above grade concrete washout area shall be constructed and clearly marked in a location near the causeway where trucks and other construction equipment can be cleaned. Grout or concrete shall not be dumped onto the causeway at any time.
2. Temporary causeway shown for information only. Temporary causeway placed in previous contract. This contract responsible for the maintenance of the temporary causeway, removal of the temporary causeway & restoration of the area after the completion of pier work.

PLAN



SECTION A-A

N.T.S.



SECTION B-B

N.T.S.

PLOT SCALE: 1/8"=1'-0"
 FILE NAME: \\server\planning\cadd\110825\110825.dwg
 USER NAME: tblank
 PLOT DATE: 1/5/2012

DESIGNED - MAC	REVISOR - ADDENDUM 1-6-12
DRAWN - MAC	REVISOR -
CHECKED - WLS	REVISOR -
DATE - 10/23/2011	REVISOR -



CITY OF ST. CHARLES

TEMPORARY CAUSEWAY

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	222
CONTRACT NO. 63650				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.
- Calculated weight of Structural Steel = 1,538,410 lbs.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60, See Special Provisions.
- 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.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8" (0.01'). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete sealer shall be applied to the backwalls, seats, and front face of the abutments.
- The Organic Zinc Rich Primer/Epoxy/Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat shall match color SW7680 "Lanyard" with RGB Value R-191, G-153, B-116. See Special Provision for "Cleaning and Painting New Metal Structures".
- Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water. This shall include the placement of material for run-arounds, causeways, temporary bridge, etc. Any permit application by the Contractor shall refer to the IDNR 3708 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- Seal coat thickness design is based on the Cofferdam Design Water Elevation (CDWE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.
- Reinforcement bar lap splices shall be Class C. Top bars so placed that more than 12 inches of concrete is cast below the reinforcement shall be lapped for 1.4 x basic lap. Reinforcement bar splices shall be in accordance with the following table unless shown otherwise on the drawing.

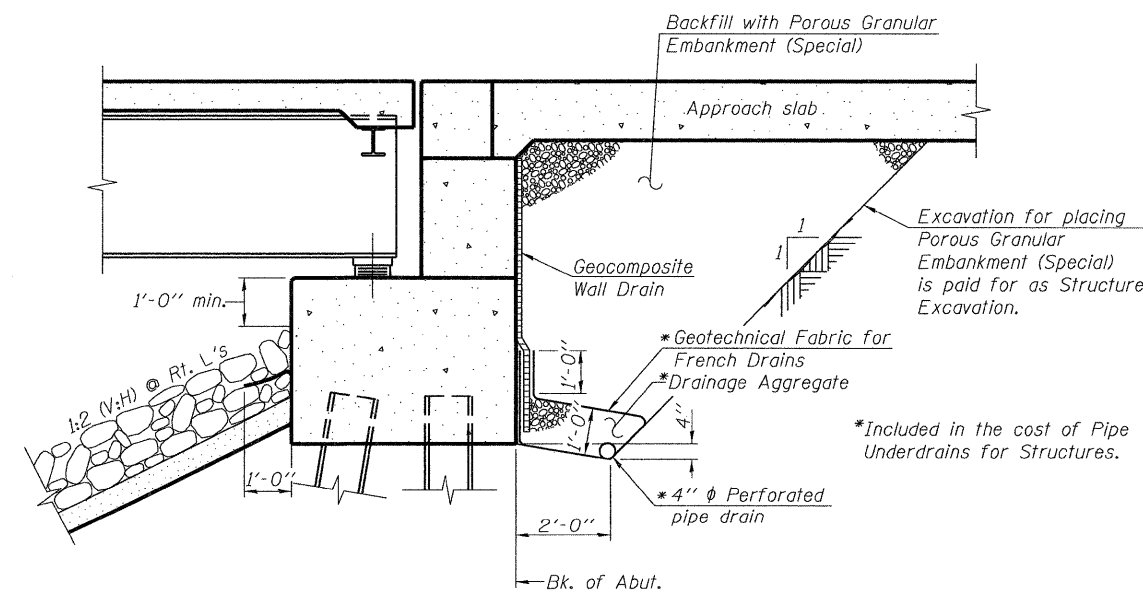
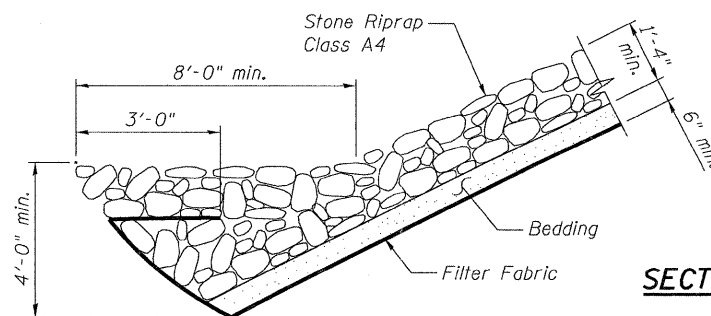
Bar Size	Basic Lap	1.4 Basic Lap
#4	2'-7"	2'-11"
#5	3'-3"	3'-8"
#6	3'-10"	4'-5"
#7	5'-2"	5'-10"
#8	6'-9"	7'-8"
#9	8'-7"	9'-8"
#10	10'-10"	12'-4"
#11	13'-4"	15'-1"
- Conduit shall not be installed until after the deck has been completed.

INDEX OF SHEETS

- S1 General Plan and Elevation
- S2 General Notes, Index of Sheets and Total Bill of Material
- S3 Foundation Layout
- S4 Deck Elevation Plan
- S5 Top of Slab Elevations (1 of 4)
- S6 Top of Slab Elevations (2 of 4)
- S7 Top of Slab Elevations (3 of 4)
- S8 Top of Slab Elevations (4 of 4)
- S9 Top of Approach Slab Elevations
- S10 Deck Reinforcement Plan
- S11 Deck Cross Section
- S12 Deck Details and Bill of Material
- S13 2- Tube Railing Details (1 of 2)
- S14 2- Tube Railing Details (2 of 2)
- S15 Bridge Approach Slab Plan
- S16 Bridge Approach Slab Details
- S17 Modular Expansion Joint Details (1 of 2)
- S18 Modular Expansion Joint Details (2 of 2)
- S19 Drainage Plan
- S20 Drainage Details
- S21 Scupper Details
- S22 Framing Plan (1 of 2)
- S23 Framing Plan (2 of 2)
- S24 Steel Plate Girder Elevation (1 of 4)
- S25 Steel Plate Girder Elevation (2 of 4)
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- S28 Curved Girder Layout
- S29 Steel Plate Girder Cross Frame Details
- S30 Steel Plate Girder Miscellaneous Details
- S31 Steel Plate Girder Splice Details
- S32 Steel Plate Girder Camber Diagram
- S33 Steel Plate Girder Moment Tables
- S34 Steel Plate Girder Reaction Tables
- S35 Low Profile Fixed Bearing
- S36 HLMR Guided Expansion Bearing
- S37 West Abutment Details (1 of 2)
- S38 West Abutment Details (2 of 2)
- S39 East Abutment Details (1 of 2)
- S40 East Abutment Details (2 of 2)
- S41 Pier 1 Details
- S42 Piers 2-5 Details
- S43 Piers 6-7 Details
- S44 Pier Details
- S45 Footing Details
- S46 Piers 1-4 Bill of Materials
- S47 Piers 5-7 Bill of Materials
- S48 Pile Details
- S49 Bar Splicer Assembly and Mechanical Splicer Details
- S50 Soil Boring Logs - Pier 2
- S51 Soil Boring Logs - Pier 3
- S52 Soil Boring Logs - Pier 4
- S53 Soil Boring Logs - Pier 5
- S54 Soil Boring Logs - Pier 6
- S55 Soil Boring Logs - Pier 7
- S56 Soil Boring Logs - East Abutment

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	-	187	187
Stone Riprap, Class A4	Sq. Yd.	-	792	792
Portland Cement Concrete Sidewalk 5 Inch	Sq. Ft.	-	227	227
Structure Excavation	Cu. Yd.	-	220	220
Cofferdam Excavation	Cu. Yd.	-	1,730	1,730
Cofferdam (Type 2) (Location - 1)	Each	-	1	1
Cofferdam (Type 2) (Location - 2)	Each	-	1	1
Cofferdam (Type 2) (Location - 3)	Each	-	1	1
Cofferdam (Type 2) (Location - 4)	Each	-	1	1
Cofferdam (Type 2) (Location - 5)	Each	-	1	1
Concrete Structures	Cu. Yd.	-	2,301.9	2,301.9
Concrete Superstructure	Cu. Yd.	1,257.7	-	1,257.7
Bridge Deck Grooving	Sq. Yd.	4,052	-	4,052
Seal Coat Concrete	Cu. Yd.	-	734	734
Concrete Encasement	Cu. Yd.	10.6	-	10.6
Protective Coat	Sq. Yd.	4,898	-	4,898
Stud Shear Connectors	Each	14,277	-	14,277
Reinforcement Bars, Epoxy Coated	Pound	382,300	255,900	638,200
Bar Splicers	Each	-	72	72
Furnishing Steel Piles HP12x53	Foot	-	2,588	2,588
Furnishing Steel Piles HP14x73	Foot	-	8,866	8,866
Driving Piles	Foot	-	11,454	11,454
Test Pile Steel HP12x53	Each	-	4	4
Test Pile Steel HP14x73	Each	-	5	5
Pile Shoes	Each	-	218	218
Name Plates	Each	-	1	1
Anchor Bolts, 1"	Each	-	140	140
Anchor Bolts, 1 1/2"	Each	-	40	40
Concrete Sealer	Sq. Ft.	-	1,053	1,053
Geocomposite Wall Drain	Sq. Yd.	-	86	86
Pipe Underdrains for Structures, 4"	Foot	-	182	182
High-Load Multi-Rotational Bearings, Guided Expansion, 200K	Each	10	-	10
High-Load Multi-Rotational Bearings, Guided Expansion, 450K	Each	25	-	25
Furnishing and Erecting Structural Steel Bridge No. 2	L. Sum	1	-	1
Modular Expansion Joint 9"	Foot	73	-	73
Steel Railing (Special)	Foot	3,087	-	3,087
Drainage Scuppers, DS-33	Each	13	-	13
Drainage System	L. Sum	1	-	1
Anti-Graffiti Coating	Sq. Ft.	-	18,703	18,703
Anti-Graffiti Protection System	Sq. Ft.	-	839	839
Form Liner Textured Surface (Special)	Sq. Ft.	-	839	839



SECTION THRU PILE SUPPORTED STUB ABUTMENT
(Horiz. dim. at Rt. L's)

Note:
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwall, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

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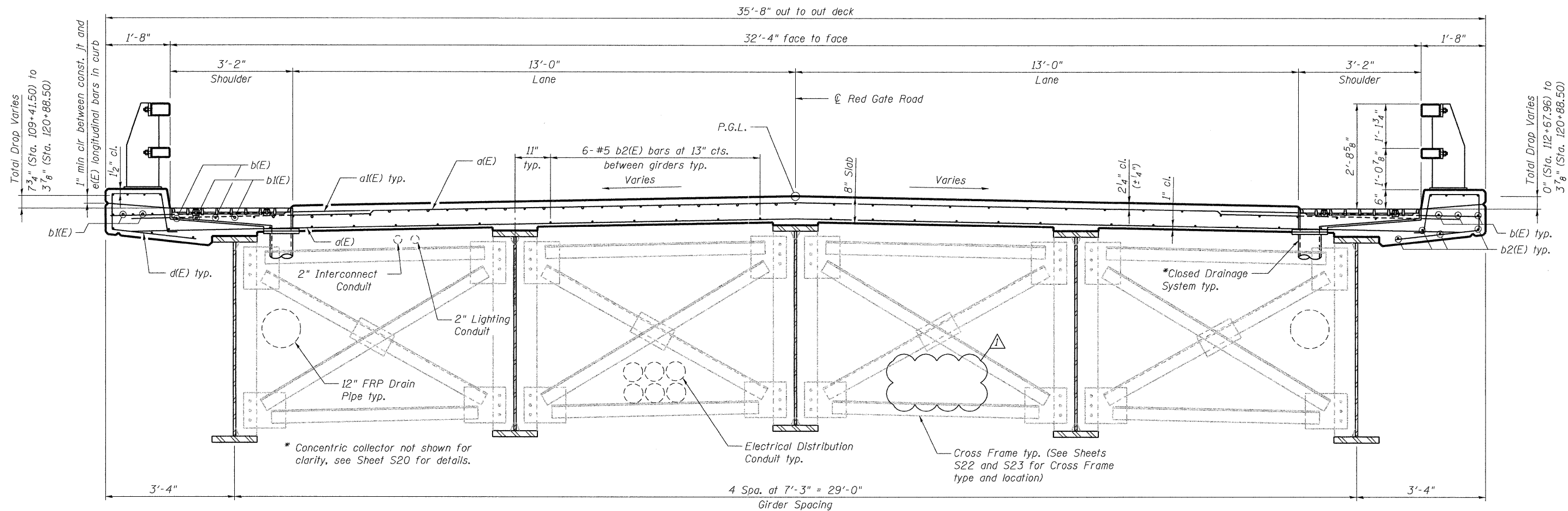
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GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIALS
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER

SHEET NO. S2 OF S56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	224
CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	

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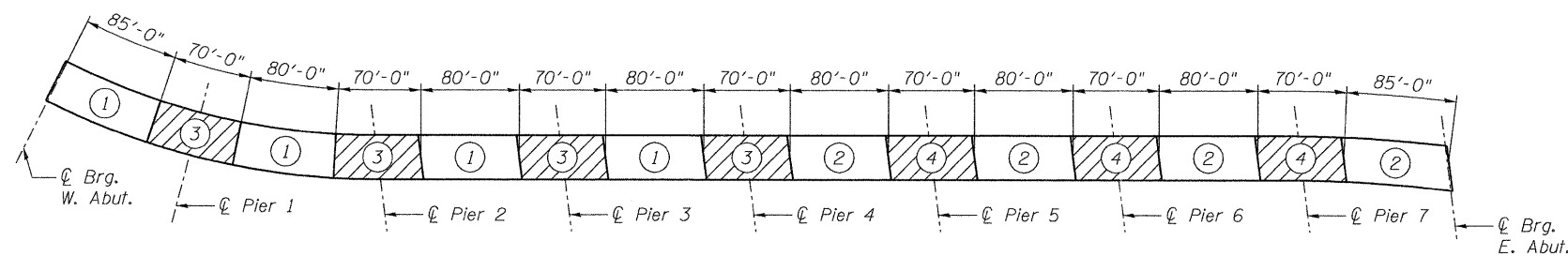
NEAR PIER

NEAR MIDSPAN

CROSS SECTION
(Looking East)

Station	Left Slope	Right Slope
Sta. 109+41.50	2.50%	2.50%
Sta. 111+85.96	2.50%	2.50%
Sta. 112+02.36	2.00%	2.00%
Sta. 112+67.96	2.00%	0.00%
Sta. 113+33.96	2.00%	2.00%
Sta. 120+88.50	2.00%	2.00%

DECK CROSS SLOPE TRANSITIONS
(Looking East)



REQUIRED DECK POUR SEQUENCE

NOTES:

- See Sheet S29 for Cross Frame Details.
- When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:
 - A) At least 72 hours shall have elapsed from the end of the previous pour.
 - B) The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.
- The Contractor is alerted that camber and dead load deflection values were developed based on the deck pouring sequence shown. Any deviation from this pouring sequence will result in changes to camber and deck elevations.
- Deck inserts and hanger spacing for conduit shall be in accordance with the manufacturer's recommendations but shall not exceed 10'.



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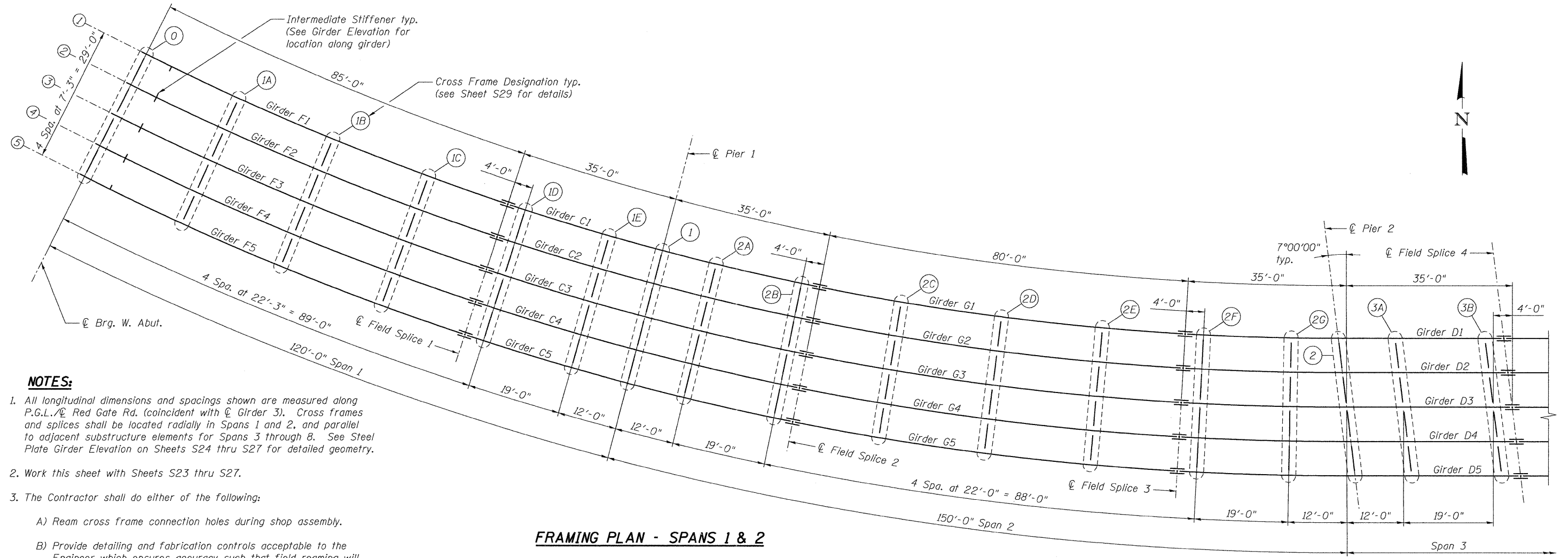
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DECK CROSS SECTION
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER
SHEET NO. S11 OF 556 SHEETS

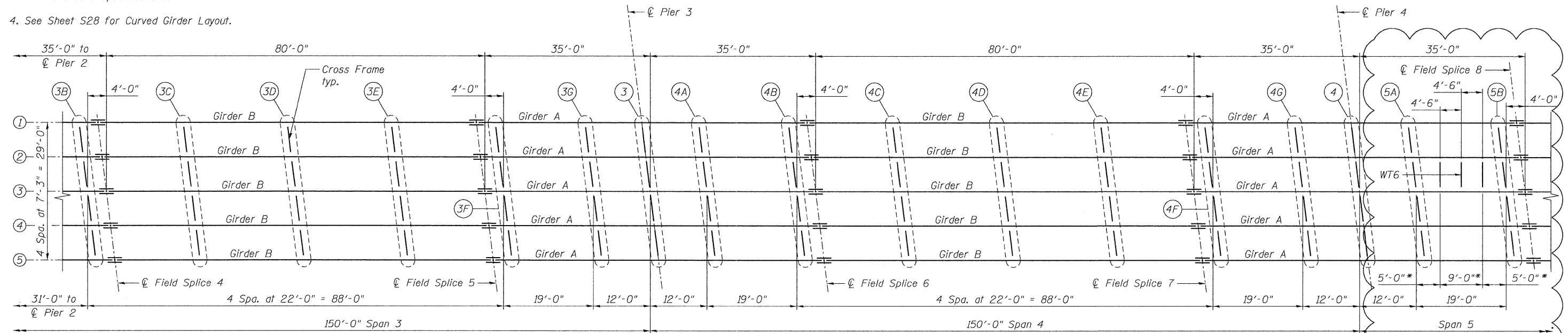
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	04-00092-00-BR	KANE	440	233
CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	



NOTES:

- All longitudinal dimensions and spacings shown are measured along P.G.L./Red Gate Rd. (coincident with Centerline of Girder 3). Cross frames and splices shall be located radially in Spans 1 and 2, and parallel to adjacent substructure elements for Spans 3 through 8. See Steel Plate Girder Elevation on Sheets S24 thru S27 for detailed geometry.
- Work this sheet with Sheets S23 thru S27.
- The Contractor shall do either of the following:
 - Ream cross frame connection holes during shop assembly.
 - Provide detailing and fabrication controls acceptable to the Engineer which ensures accuracy such that field reaming will not exceed the amount permitted in Article 505.08(l) of the Standard Specifications.
- See Sheet S28 for Curved Girder Layout.

FRAMING PLAN - SPANS 1 & 2



FRAMING PLAN - SPANS 3 & 4

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FRAMING PLAN (1 OF 2)
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER
SHEET NO. S22 OF S56 SHEETS

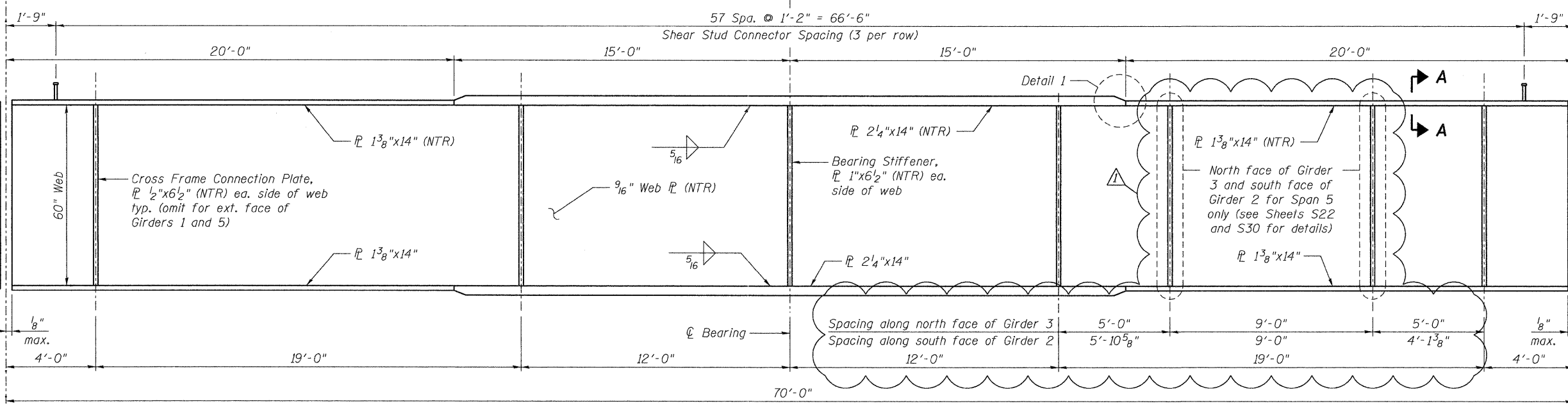
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CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	

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Field Splice, see details on Sheet S31

Pier 3, 4, 5, & 6

Field Splice, see details on Sheet S31

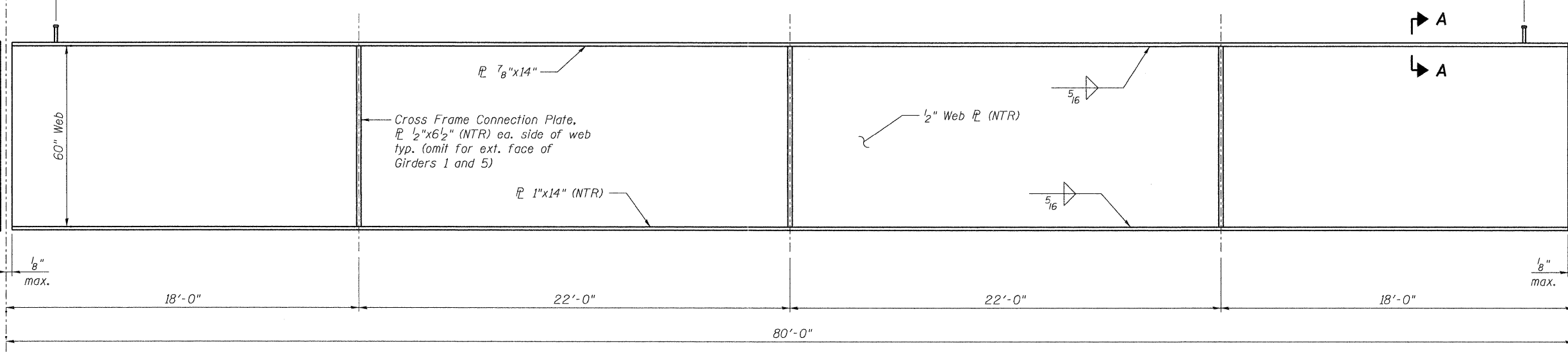


ELEVATION - GIRDER A
(Looking North, 20 Required)

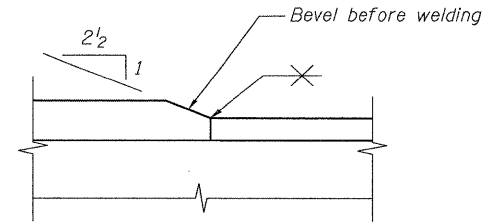
Field Splice, see details on Sheet S31

66 Spa. @ 1'-2" = 77'-0"
Shear Stud Connector Spacing (3 per row)

Field Splice, see details on Sheet S31



ELEVATION - GIRDER B
(Looking North, 25 Required)



DETAIL 1
(Typ.)

- NOTES:**
- All flange plates, web plates, bearing stiffeners, and cross frame connection plates shall be AASHTO M270 Grade 50 steel.
 - Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
 - Work this sheet with Sheets S22 thru S23 and S25 thru S27.
 - See Sheet S30 for Section A-A.

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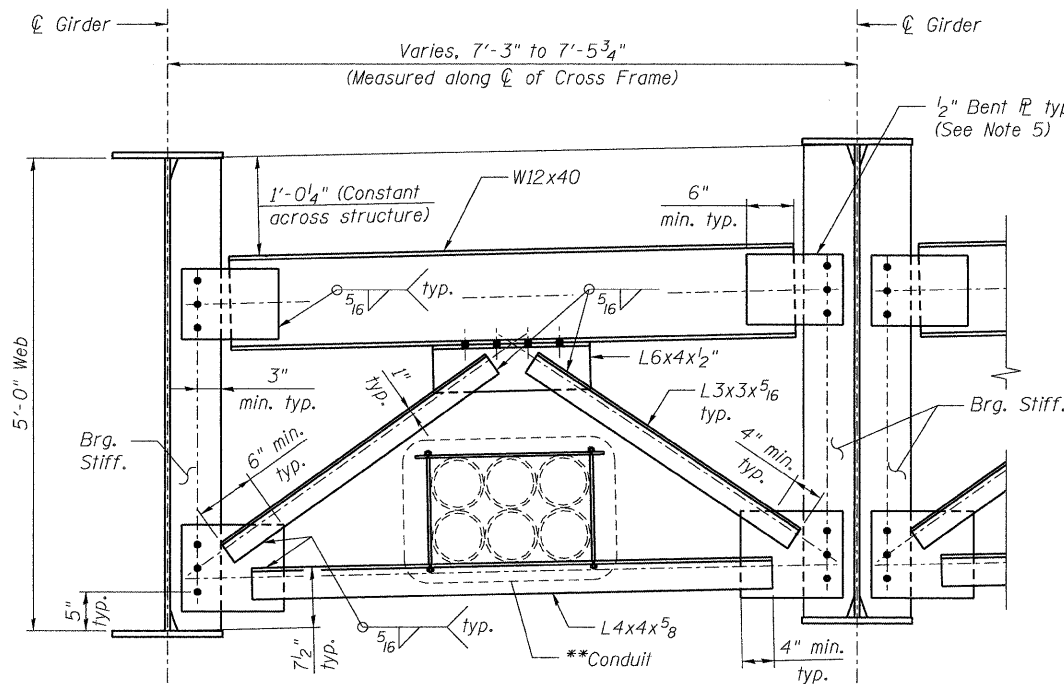
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STEEL PLATE GIRDER ELEVATION (1 OF 4)
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER

SHEET NO. S24 OF 556 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	246
CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	

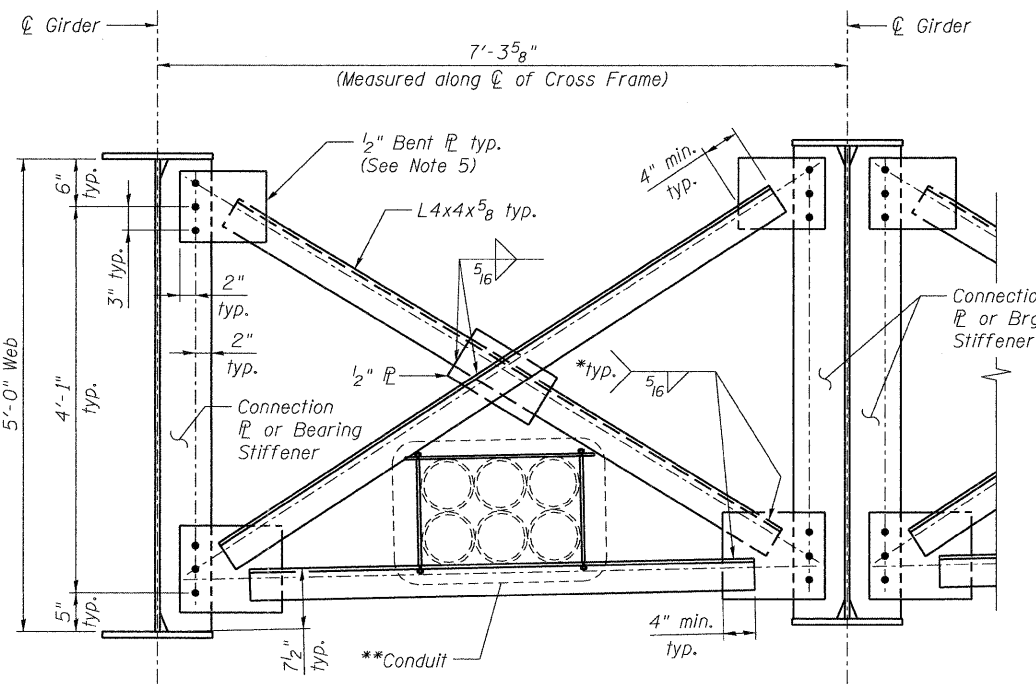
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TYPE I CROSS FRAME
(No. cross frames required = 8)

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

** Located on north side of Girder 3 only, see Intermediate Conduit Support Detail for additional information.

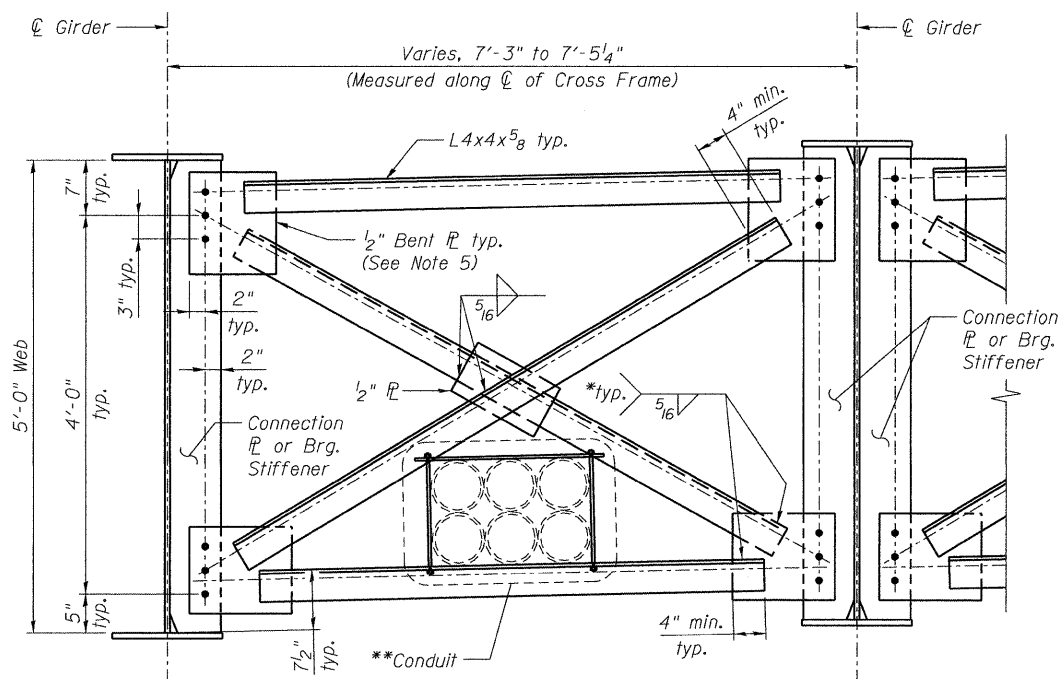


TYPE III CROSS FRAME
(No. cross frames required = 156)

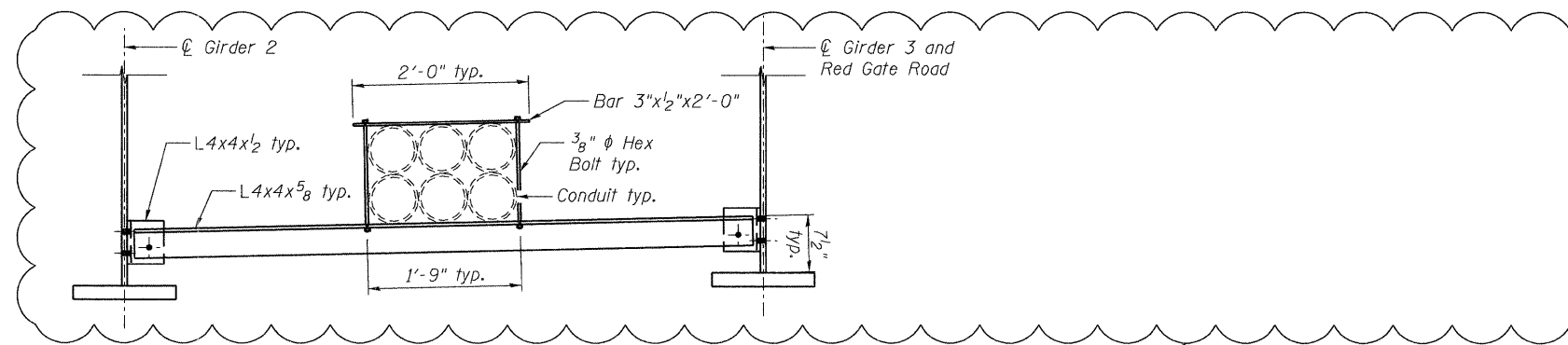
CROSS FRAME DIMENSIONS

Cross Frame	Type	Girders 1-2	Girders 2-3	Girders 3-4	Girders 4-5
0	I	7'-3"	7'-3"	7'-3"	7'-3"
1A-2G	II	7'-3"	7'-3"	7'-3"	7'-3"
2	II	7'-3 5/8"	7'-3 5/8"	7'-3 5/8"	7'-3 5/8"
3A-7G	III	7'-3 5/8"	7'-3 5/8"	7'-3 5/8"	7'-3 5/8"
7	II	7'-3 3/4"	7'-3 3/4"	7'-3 3/4"	7'-3 3/4"
8A	II	7'-3 7/8"	7'-3 7/8"	7'-3 7/8"	7'-3 7/8"
8B	II	7'-4 1/8"	7'-4 1/8"	7'-4 1/8"	7'-4 1/8"
8C	II	7'-4 3/8"	7'-4 1/2"	7'-4 1/2"	7'-4 1/2"
8D	II	7'-4 3/4"	7'-4 3/4"	7'-4 7/8"	7'-4 7/8"
8E	II	7'-5 1/8"	7'-5 1/4"	7'-5 1/4"	7'-5 1/4"
8	I	7'-5 5/8"	7'-5 5/8"	7'-5 5/8"	7'-5 3/4"

Measured along \varnothing Cross Frame between \varnothing Girders.



TYPE II CROSS FRAME
(No. cross frames required = 80)



INTERMEDIATE CONDUIT SUPPORT DETAIL
(No. intermediate conduit supports required = 46)

NOTES:

- All cross frame members shall be AASHTO M270 Grade 50 steel.
- See Steel Plate Girder Details on Sheet S30 for bearing stiffener and connection plate details.
- All cross frames between girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
- All cross frame components shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
- Connection Plates are not bent at Cross Frames 0 thru 2G, where \varnothing Cross Frame is perpendicular to \varnothing Girder. Bent Connection Plates are required at Cross Frames 2 thru 8, where \varnothing Cross Frame is skewed to \varnothing Girder.
- Cost of intermediate conduit supports and all conduit mounting accessories shall be included in the cost of Furnishing and Erecting Structural Steel Bridge No. 2.
- The calculated deflections of the girders under steel self-weight shall be used to detail the cross frame connections, and to erect the structural steel such that the girders will be plumb within a tolerance of $\pm 1/8$ " per vertical foot throughout when supporting their own weight. See Sheet S32 for steel only deflections.
- For location of Stiffeners and Connection Plates, see Sheets S24 thru S27.
- Hex bolts, nuts, and washers for conduit support detail shall be hot-dipped galvanized and conform to ASTM A307.
- Contractor shall verify spacing requirements and anchorage details of conduit supports with manufacturer.
- Intermediate conduit supports shall be placed at mid-distance between cross frames where cross frames are greater than 15'-0" apart. Support shall be perpendicular to girder webs.
- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $7/8$ " \varnothing , holes $5/16$ " \varnothing , unless noted otherwise.

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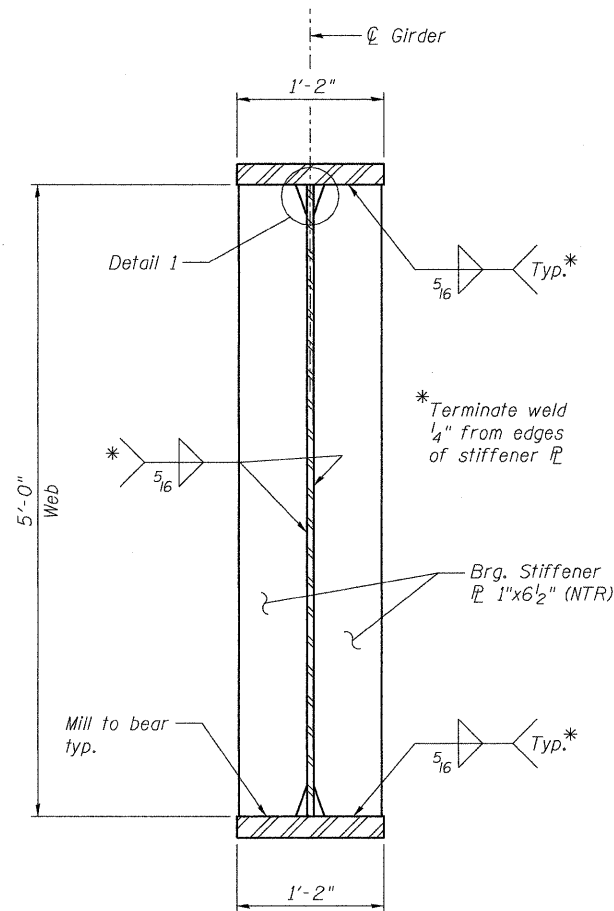


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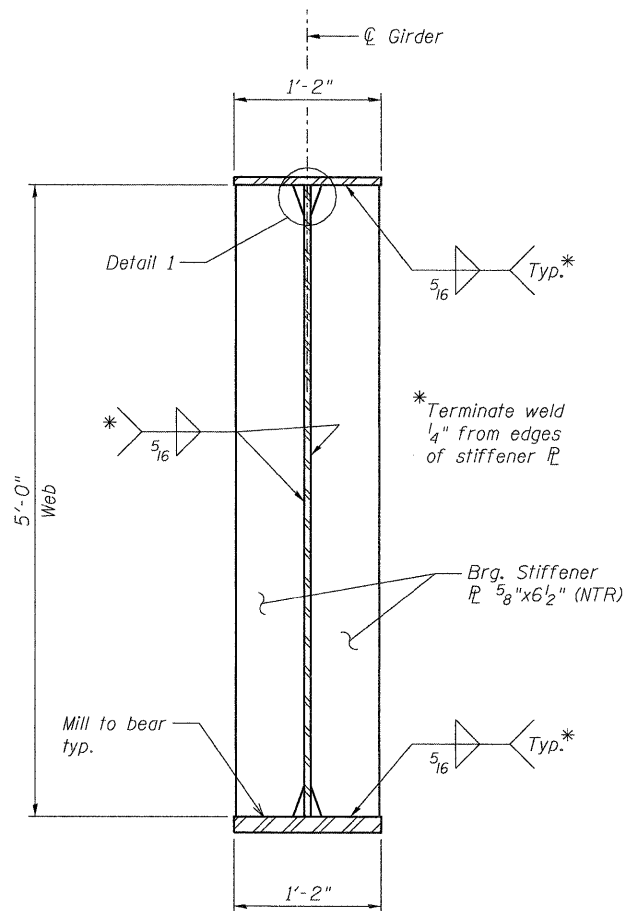
STEEL PLATE GIRDER CROSS FRAME DETAILS
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER

SHEET NO. S29 OF 556 SHEETS

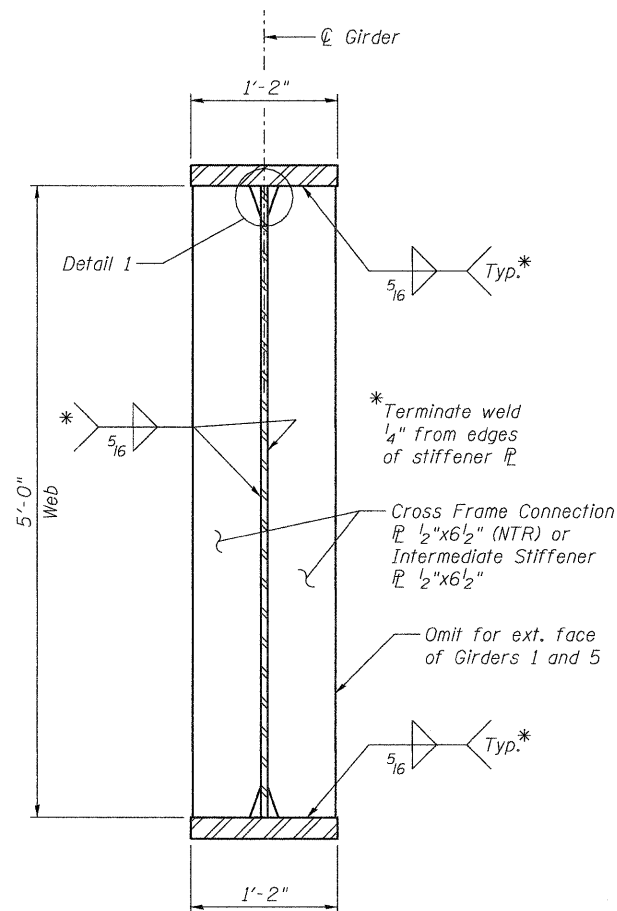
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CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	



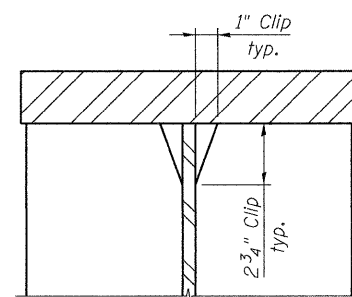
BEARING STIFFENER AT PIERS
(No. plates required = 70)



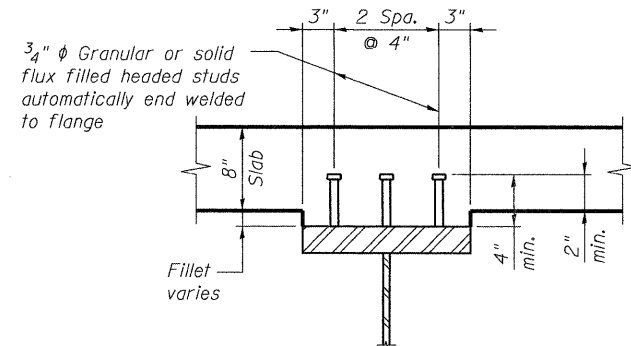
BEARING STIFFENER AT ABUTMENTS
(No. plates required = 20)



CONNECTION PLATE AND INTERMEDIATE STIFFENER DETAIL
(No. plates required = 436)



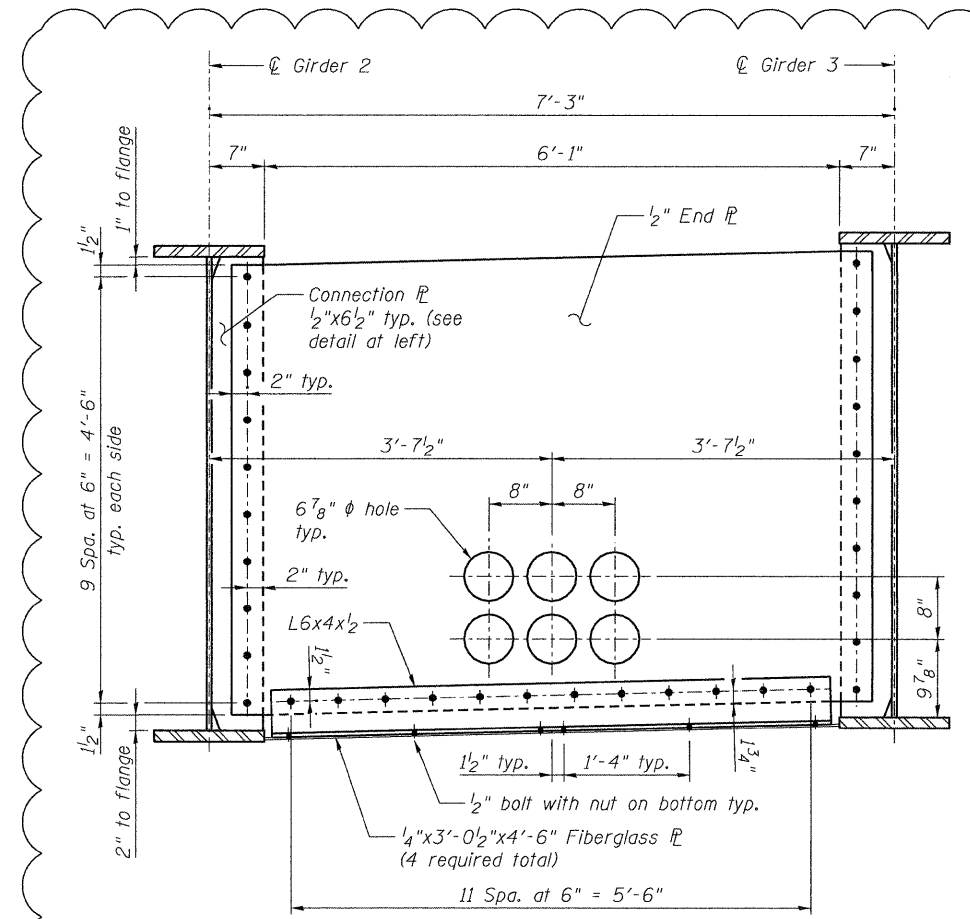
DETAIL 1
(Typical top & bottom flanges)



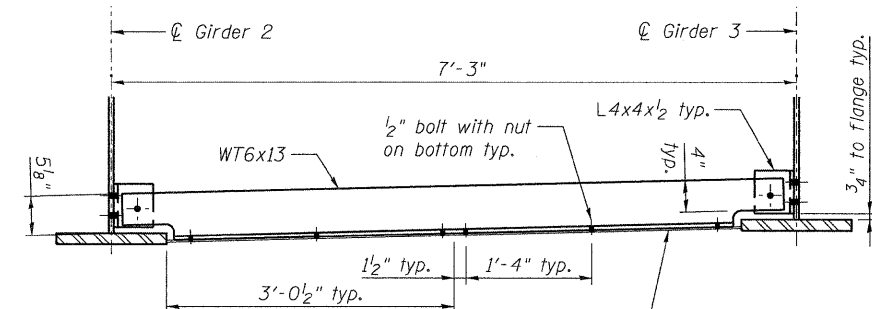
SECTION A-A
(No. studs required = 14,277)

NOTES:

1. For location of Stiffeners and Connection Plates, see Sheets S24 thru S27.
2. All Stiffener and Cross Frame Connection Plates shall be AASHTO M270 Grade 50 steel.
3. Stiffener and Cross Frame Connection Plates designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
4. All Stiffener and Cross Frame Connection Plates shall be welded perpendicular to the web.



END PANEL AT JUNCTION BOX
(No. of panels required = 2)



MIDDLE BRACKET AT JUNCTION BOX
(No. of brackets required = 1)

1. See Electrical Distribution plans for additional details.
2. Contractor shall coordinate holes in web for conduit racks with unistrut manufacturer.
3. All steel for the junction box shall be included in the cost of "Furnishing and Erecting Structural Steel, Bridge No. 2." Cost of furnishing and installing fiberglass plate shall be included with "Junction Box (Special)."
4. Junction box shall be fully enclosed to prevent insects and birds from entering. Flashing shall be installed to close openings greater than 1/4". Silicone joint sealant shall be used to seal remaining gaps. Cost of furnishing and installing flashing and sealant shall be included with "Junction Box (Special)."

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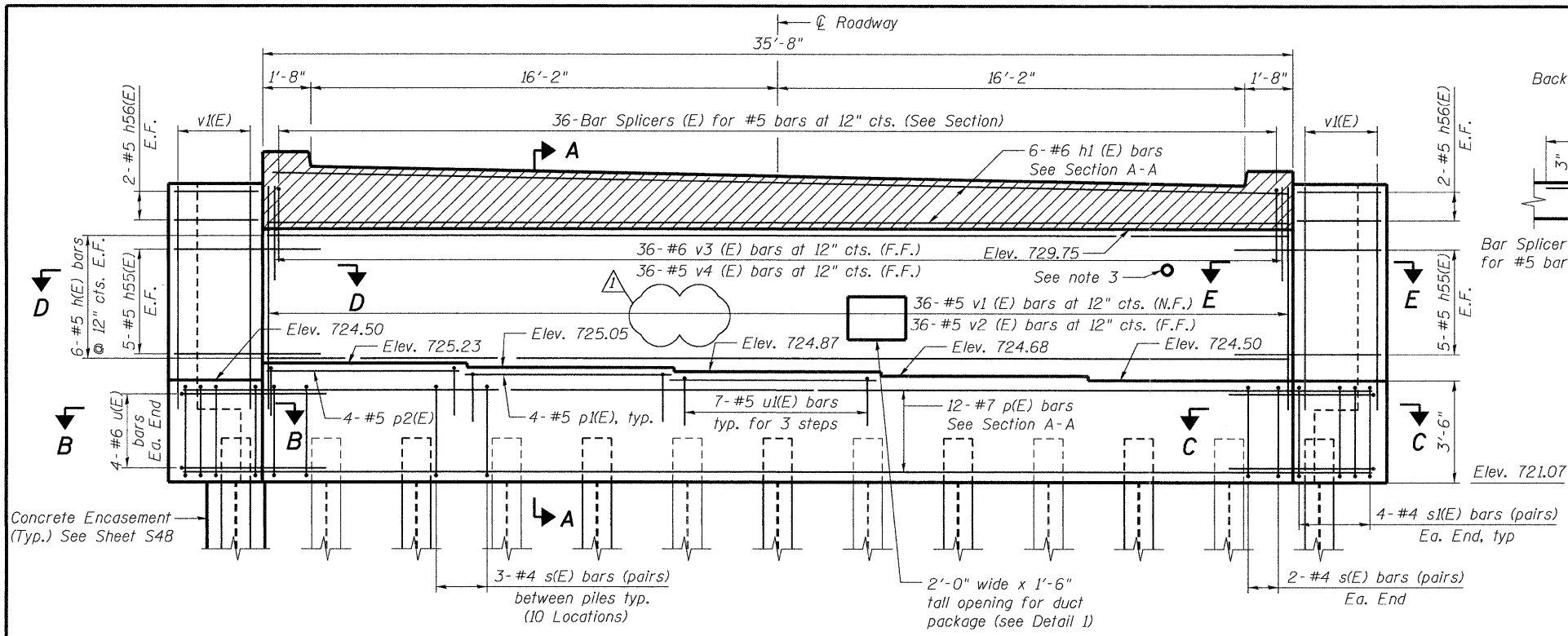


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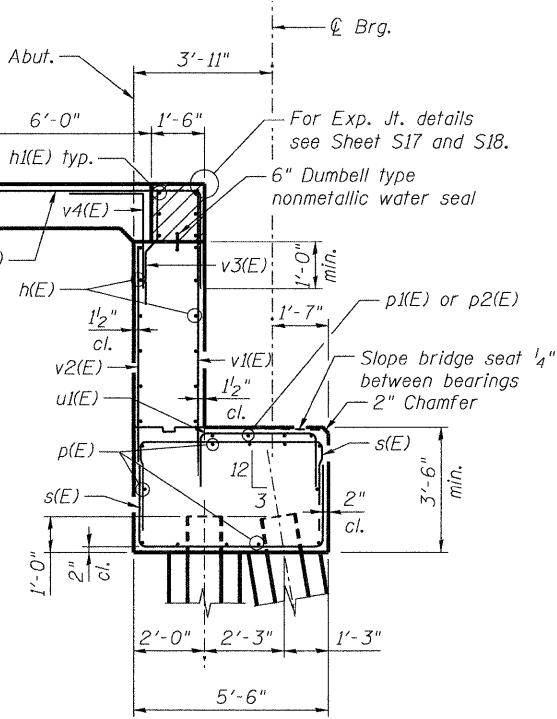
STEEL PLATE GIRDER DETAILS
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER

SHEET NO. S30 OF S56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-0092-00-BR	KANE	440	252
CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	

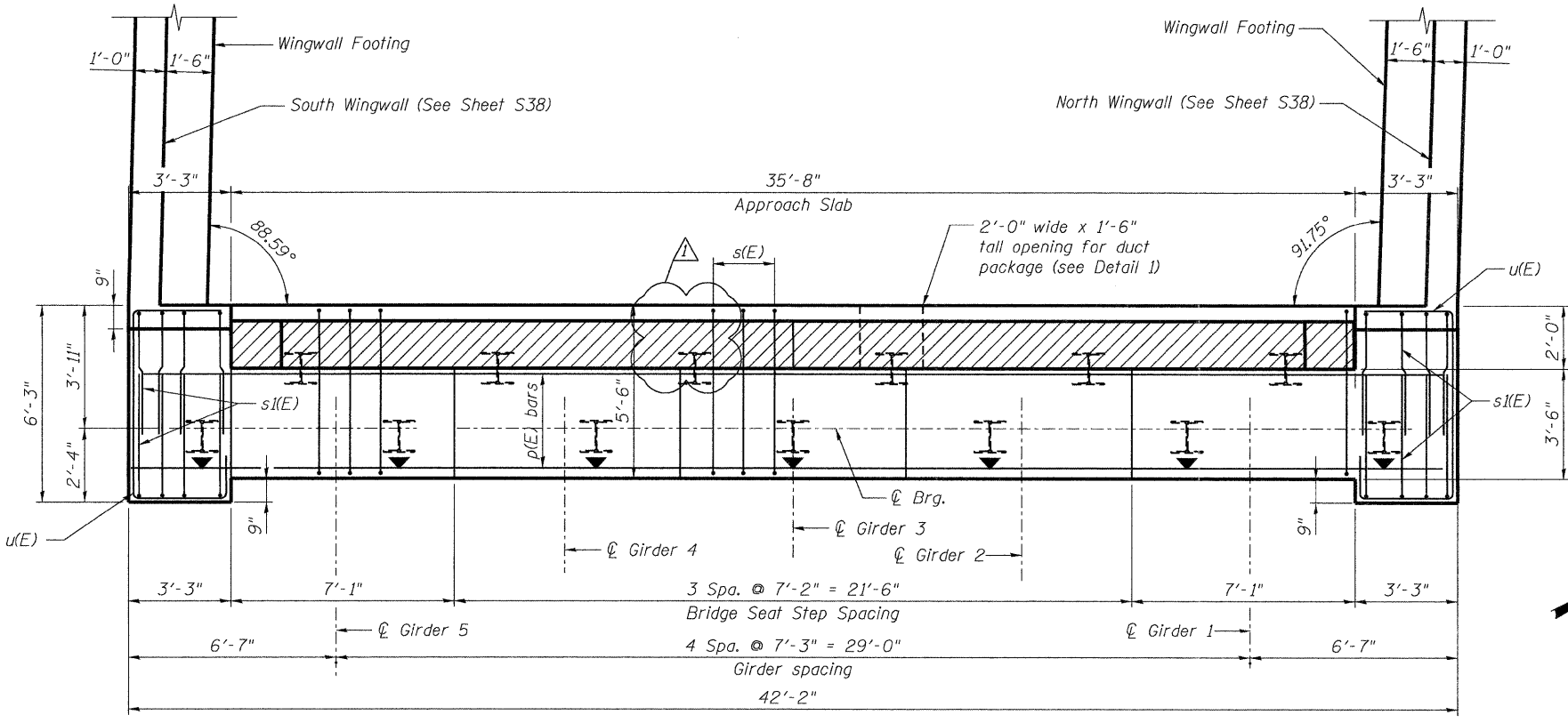


ELEVATION - WEST ABUTMENT



DETAIL 1 AT DUCT BANK BLOCKOUT

Note: Exact location of blockout shall be confirmed with the electrical details prior to construction of backwall



PLAN - WEST ABUTMENT

PILE DATA

Type: HP12x53 with pile shoes
 Nominal Required Bearing: 280 kips
 Factored Resistance Available: 154 kips
 Est. Length: 62 feet
 No. Production Piles: 14
 No. Test Piles: 1

NOTES:

1. See sheet S38 for wingwall sections and details.
2. See sheet S3 for foundation layout.
3. Locate 3" sleeve as required for traffic signal interconnect.

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 Chicago, Illinois 60601
 312-565-0450 Job No. 10092

FILE NAME = 0456024_037_WAbutDtl1.dgn	USER NAME = akaschall	DESIGNED - MFH	REVISED - Δ ADDENDUM 1/6/2012
PLOT SCALE =	PLOT DATE = 1/5/2012	CHECKED - MRB	REVISED -
		DRAWN - RMG	REVISED -
		CHECKED - MRB	REVISED -



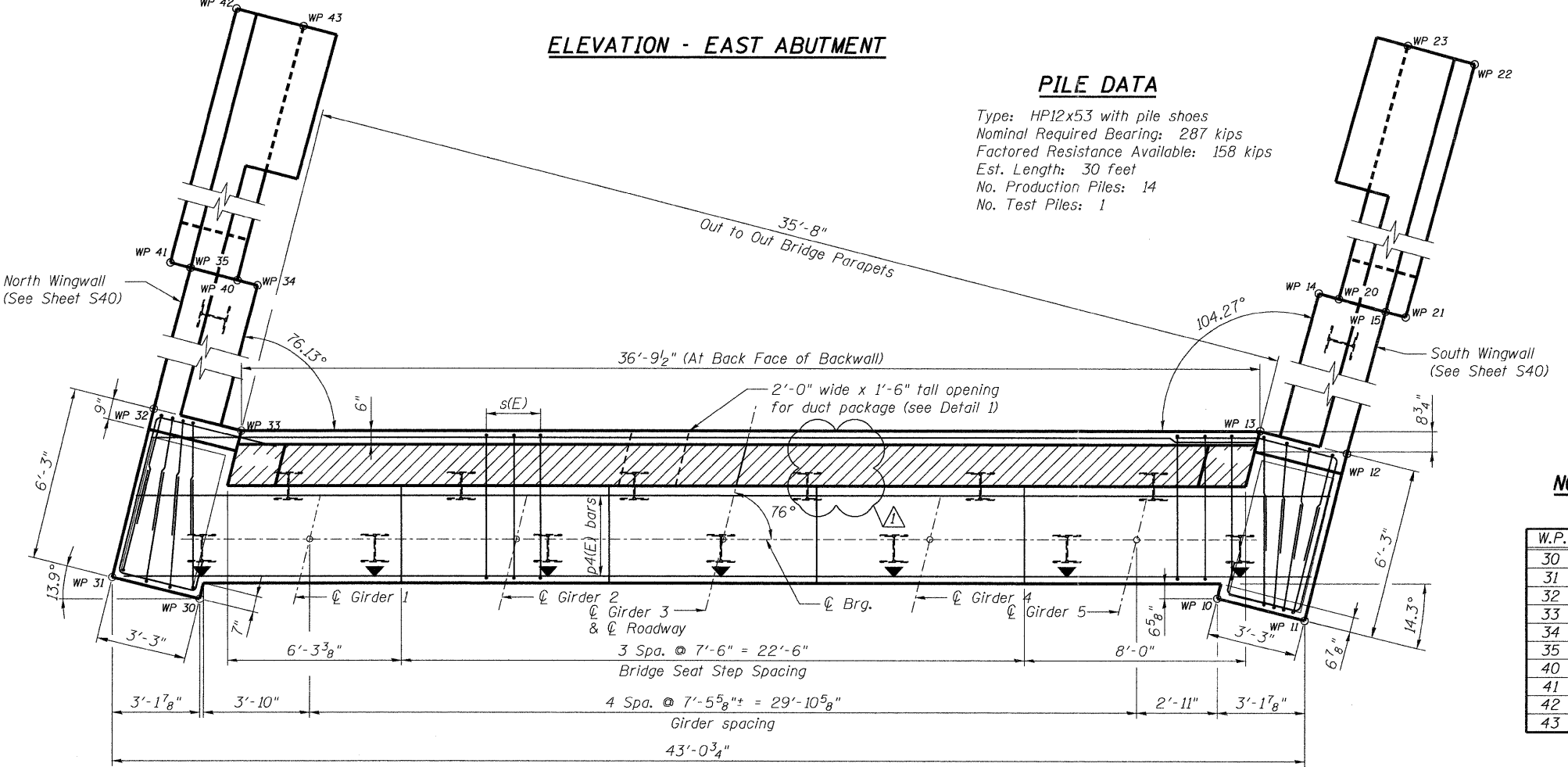
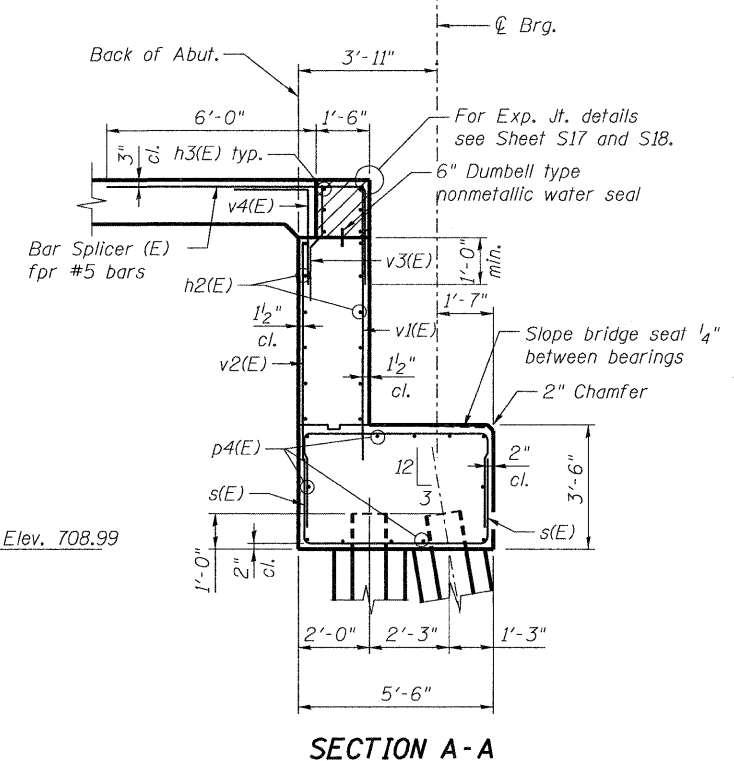
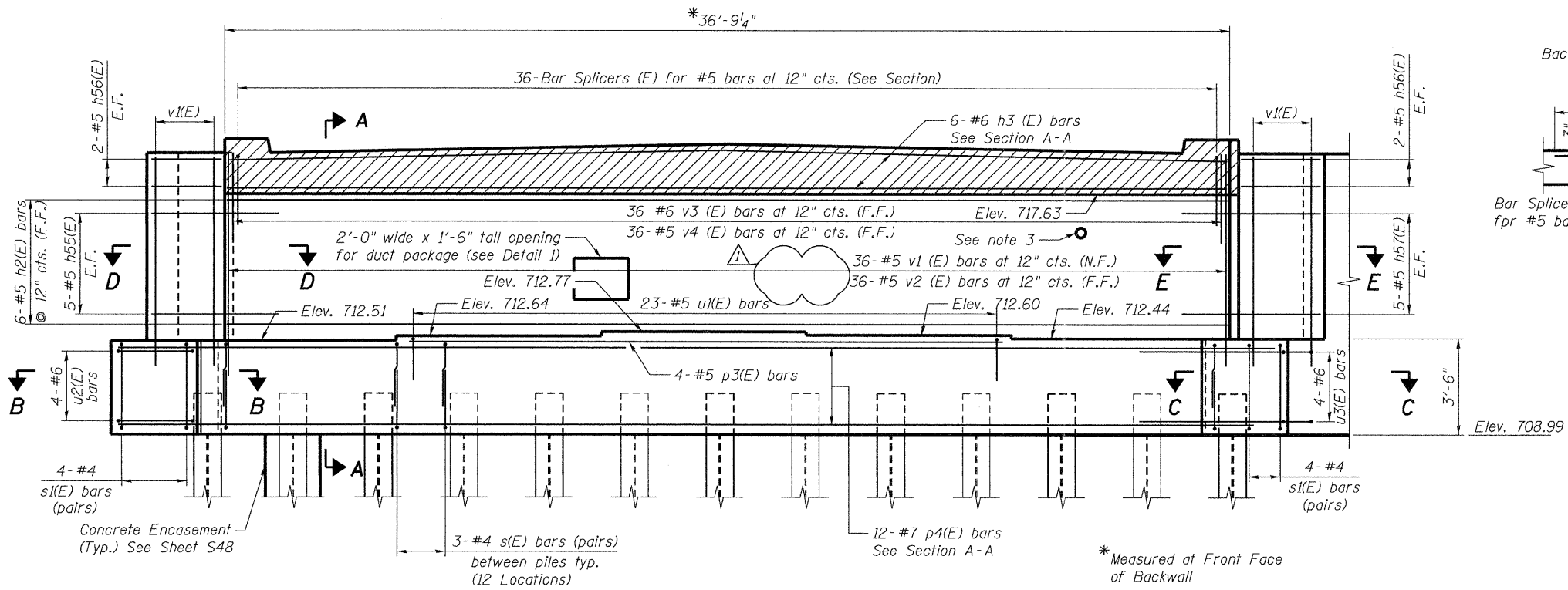
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WEST ABUTMENT DETAILS (1 OF 2)
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER

SHEET NO. S37 OF S56 SHEETS

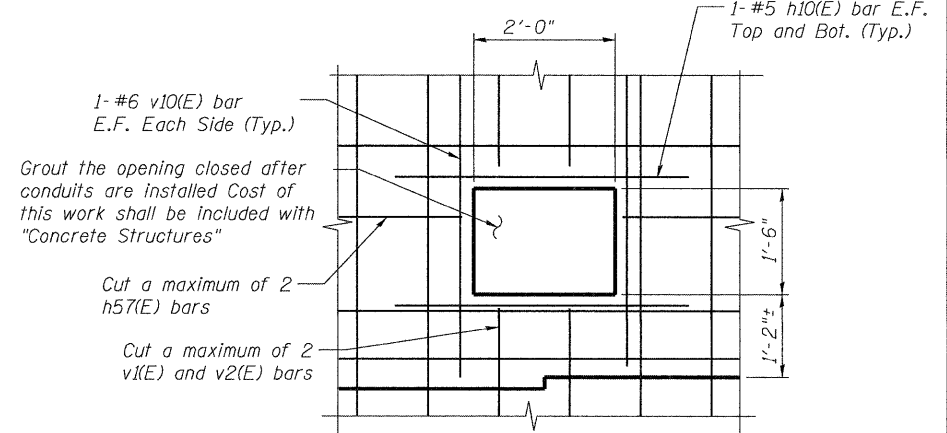
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CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	

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 1/5/2012



PILE DATA

Type: HP12x53 with pile shoes
 Nominal Required Bearing: 287 kips
 Factored Resistance Available: 158 kips
 Est. Length: 30 feet
 No. Production Piles: 14
 No. Test Piles: 1



NORTH FOOTING & WINGWALL

W.P.	Station	Offset
30	120+78.29	17'-10"
31	120+78.30	21'-1"
32	120+84.43	21'-0 7/8"
33	120+84.43	17'-10"
34	120+95.67	18'-6 1/2"
35	120+95.67	21'-0 1/2"
40	120+95.67	19'-3 3/8"
41	120+95.67	21'-9 1/2"
42	121+13.48	21'-10 5/8"
43	121+13.51	19'-4 5/8"

SOUTH FOOTING & WINGWALL

W.P.	Station	Offset
10	120+87.10	17'-10"
11	120+87.09	21'-1 1/2"
12	120+93.47	21'-1 1/2"
13	120+93.46	17'-10"
14	121+05.21	18'-8 3/8"
15	121+05.20	21'-2 3/8"
20	121+05.21	19'-5 3/8"
21	121+05.20	21'-11 3/8"
22	121+23.74	21'-10 1/4"
23	121+23.71	19'-4 1/4"

NOTES:

- See sheet S40 for wingwall sections and details.
- See sheet S3 for foundation layout.
- Locate 3" sleeve as required for traffic signal interconnect.

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FILE NAME = 0456024_039_EAbutDtl1.dgn	USER NAME = akeeschall	DESIGNED - MFH	REVISED - Δ ADDENDUM 1/6/2012
PLOT SCALE =	PLOT DATE = 1/5/2012	CHECKED - MRB	REVISED -
		DRAWN - RMG	REVISED -
		CHECKED - MRB	REVISED -



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EAST ABUTMENT DETAILS (1 OF 2)
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER
 SHEET NO. S39 OF S56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	261
CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	

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