STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. 1283: MAIN STREET OVER THE FOX RIVER SECTION NO. 02-00059-00-BR ROADWAY RECONSTRUCTION, BRIDGE SUPERSTRUCTURE REPLACEMENT AND UTILITY REPLACEMENT PROJECT NO. BRM-8003 (179) S.N. 045-6150 KANE COUNTY C-91-078-02

PLAN: 1" = 20'SCALES PROFILE VERT.: 1" = 20'
SCALES PROFILE VERT.: 1" = 5' CROSS SECTIONS HORZ.: 1" = 2' (CROSS SECTIONS VERT.: 1" = 5"

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

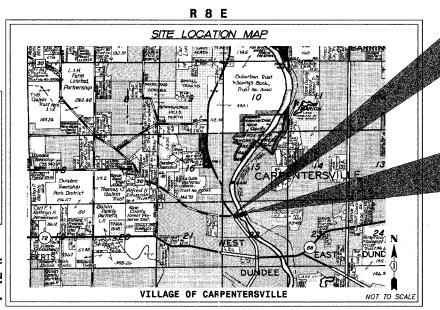
> PROJECT LOCATED IN THE VILLAGE OF CARPENTERSVILLE

STRUCTURE INFORMATION

EXISTING AND PROPOSED STRUCTURE IS FOUR SPANS (214'-0") REMOVE EXISTING CONCRETE DECK ON STEEL BEAM SUPERSTRUCTURE AND REPLACE WITH A 48' WIDE SUPERSTRUCTURE CONSISTING OF PPC DECK BEAMS. **EXISTING SUBSTRUCTURE UNITS TO** BE MODIFIED AND RE-USED.



CONTRACT NO. 83783



DUNDEE TOWNSHIP

GROSS LENGTH OF PROJECT = 981 FEET = 0.186 MILES NET LENGTH OF PROJECT = 981 FEET = 0.186 MILES

MAIN STREET PROJECT BEGINS STA. 106+41

MAIN STREET PROJECT ENDS STA. 116+22

SECTION COUNTY 1283 |02-00059-00-BR KANF PROJECT NO. BRM-0003 (179)

FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT



DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

LOCAL ROAD ENGINEER APPROVED March 2, 20 05

PRINTED BY AUTHORITY OF THE

STATE OF ILLINOIS

Dine O'Kufe / fly
VDISTRICT ENGINEER

DESIGN SPEED MAIN STREET: 30 MPH

SPEED LIMIT MAIN STREET: 25 MPH

TRAFFIC DATA
MAIN STREET: 21,600 (1997) 23,304 (2025)

PROF	ESSI	ONAL	EN	GINEER	'S	SIGN	&	SEAL
1	1		· /	11		1		

Theodoce E. Damil ton THEODORE E. HAMILTON P.E.

January 8, 2005 DATE: LICENSE EXPIRES:



RTE.	SECTION	COUN	COUNTY		NO.
1283	1283 02-00059-00-BR		KANE		2
STA.		TO STA.			
FED. R	OAD DIST. NO. 1	ILLINOIS	HIGH	NAY PRO	JECT

CONTRACT #: 83783

INDEX OF SHEETS

INDEX OF SHEETS, LIST OF STATE STANDARDS, GENERAL NOTES 3-4 SUMMARY OF QUANTITIES 5-6 TYPICAL SECTIONS PLAT OF HIGHWAYS MAINTENANCE OF TRAFFIC DETAILS DETOUR PLAN 10-11 ROADWAY PLAN AND PROFILE 12-13 DRAINAGE AND UTILITY PLAN AND PROFILE SOIL BORINGS **EROSION CONTROL PLAN** 16 PAVEMENT MARKING, SIGNING, AND LANDSCAPING PLAN 17-32 BRIDGE PLANS 33-44 LIGHTING PLANS AND DETAILS 45 DISTRICT ONE TYPICAL PAVEMENT MARKINGS

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS.

INTERSECTIONS, AND DRIVEWAYS

STANDARD CONSTRUCTION DETAILS

EASEMENT DETAIL

CROSS SECTIONS

EARTH EXCAVATION TABLE AND TEMPORARY

SITE BENCHMARKS

CUT SQUARE IN CONGRETE WALL LOCATED AT THE NORTHWEST CORNER OF THE MAIN STREET BRIDGE OVER THE FOX RIVER. APPROXIMATELY 19.0' NORTHWEST OF THE CENTERLINE OF MAIN STREET.

46

47-48

50-51

49

GENERAL NOTES

- THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH BARRICADE USED. (TYPE I OR TYPE II (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.
- FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION THE CONTRACTOR WILL CALL J.U.L. Σ .E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.
- THE CONTRACTOR SHALL CONTACT THE VILLAGE OF CARPENTERSVILLE AND I.D.O.T. AT LEAST 72 HOURS IN ADVANCE OF BEGINNING ANY WORK ON MAIN STREET.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE OF CARPENTERSVILLE.
- 5 THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.10 GAL/SQ-YD. THE AGGREGATE PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 4 LBS/SQ
- 6 UNLESS OTHERWISE NOTED ALL OFFSETS FOR THE DRAINAGE STRUCTURES LOCATED IN THE CURB AND GUTTER ARE TO THE BACK OF CURB. OFFSETS FOR ALL OTHER STRUCTURES ARE TO THE CENTER OF THE
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS. THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND
- THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVES, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE TO THE VILLAGE FOR EMERGENCY OPERATIONS. THE LOCATIONS OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.
- 9 THE CONTRACTOR SHALL NOT OPERATE ANY OF THE EXISTING WATER SYSTEM. VILLAGE OF CARPENTERSVILLE FORCES MUST BE PRESENT TO OBSERVE AND OPERATE ALL VALVES, HYDRAN'S, ETC. THE CONTRACTOR SHALL PROVIDE THE VILLAGE WITH 24 HOUR NOTICE PRIOR TO STARTING ANY WORK ON VILLAGE
- 10 LOCATION OF SEGMENTAL CONCRETE BLOCK WALL SHOWN ON THE PLANS IS APPROXIMATE. THE FINAL LOCATIONS OF THIS WALL WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO INSTALLING ANY SEGMENTAL CONCRETE BLOCK WALL.
- SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.
- 12 A SOILS REPORT HAS BEEN COMPLETED FOR THIS PROJECT AND IS AVAILABLE FOR CONTRACTOR REVIEW AT THE MCHENRY, ILLINOIS OFFICE OF SMITH ENGINEERING CONSULTANTS, TNC.
- SAW CUTTING WILL PT REQUIRED FOR ALL REMOVAL ITEMS LISTED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER. THE COST OF SAW CUTTING WILL BE INCLUDED IN THE COST OF ITEMS BEING REMOVED.
- 14 THIS PROJECT MAY REQUIRE UP TO 4 CHANGEABLE MESSAGE SIGNS.
- 15 THE PAY ITEM FOR STORM SEWER REMOVAL SHALL INCLUDE ANY TRENCH BACKFILL REQUIRED TO FILL AREA OF SEWER REMOVAL WHERE THERE IS NO REPLACEMENT. IF PROPOSED STORM SEWER IS REPLACED IN THE SAME TRENCH, THEN TRENCH BACKFILL SHALL BE PAID FOR SEPARATELY WITH THE QUANTITY SHOWN ON
- 16 NO FILE SHALL BE PLACED WITHIN THE CHANNEL BELOW ELEVATION 713.00.
- 17 MECHANIZED EQUIPMENT IS NOT ALLOWED TO BE OPERATED OR MOVED ACROSS THE RIVER BOTTOM.
- 18 PAVEMENT MARKING TAPE, TYPE III SHALL BE PLACED ON THE FINAL SURFACE PRIOR TO PLACING FINAL STRIPING. COST SHALL BE INCLUDED WITH TRAFFIC CONTROL FOR TEMPORARY DETOUR.
- 19 5' LONG TRANSITIONS FOR PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER ARE INCLUDED AND SHALL BE INCIDENTAL TO COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12.
- 20. THE WORK UNDER THIS CONTRACT SHALL CONFORM TO ALL REGULATIONS GIVEN IN THE REGIONAL PERMIT ISSUED FOR THE PROJECT AND THE IDNR/OWR PERMIT ISSUED FOR THE PROJECT. THE WORK SHALL ALSO CONFORM TO KANE-DUPAGE COUNTY SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) REQUIREMENTS. ANY FEES REQUIRED BY THE KDSWCD THROUGHOUT THE DURATION OF THE PROJECT SHALL BE THE RESPONSIBILATY OF THE CONTRACTOR.

LIST OF STATE STANDARDS

LIST OF DESCRIPTION

STANDARD NO.

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
420001-05	PAVEMENT JOINTS
420401-05	BRIDGE APPROACH PAVEMENT
424001-03	CURB RAMPS FOR SIDEWALKS
515001-02	NAME PLATE FOR BRIDGES
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311	GRATING FOR CONCRETE FLARED END SECTION FOR 24" THRU 54" PIP
601001	SUB-SURFACE DRAINS
602001	CATCH BASINS, TYPE A
602011	CATCH BASIN, TYPE C
602301	INLET, TYPE A
602401	MANHOLE, TYPE A
602501	VALVE VAULT TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-02	FRAME AND LIDS, TYPE 1
604051-01	FRAME AND GRATE, TYPE 11
606001-02	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTE
701501-03	URBAN LANE CLOSURE 2L, 2W UNDIVIDED
701801-03	LANE CLOSURE, MULTILANE 1W OR 2W, CROSSWALK OR SIDEWALK CLOS
	FOR SPEEDS < 45 MPH
702001-05	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
729001	APPLICATION OF TYPE A & B METAL POSTS
780001-01	TYPICAL PAVEMENT MARKINGS
805001	ELECTRIC SERVICE INSTALLATION DETAILS
878001-03	CONCRETE FOUNDATION DETAILS
BLR 22-4	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES TWO LANE TWO
	OVER ONE DAY

SYMBOL LEGEND EXISTING PROPOSED SANITARY MANHOLE STORM MANHOLE STORM CATCH BASIN INLET FLARED END SECTION VALVE VAULT FIRE HYDRANT LIGHT POLE STREET SIGN REGULATORY SIGN UTILITY POLE UTILITY BOX MAILBOX WF11 SANITARY SEWER STORM SEWER ·----_____ CULVERT ______ WATER MAIN WATER MAIN ENCASEMENT VIIII STORM UNDERDRAIN ELECTRIC LINE -----E TELEPHONE LINE GAS LINE CABLE TV LINE TREELINE ₩ 🕄 TREE FFNCF EROSION CONTROL FENCE DITCH CHECK $\square \lor \lor \smile$ DRAINAGE ARROW 100 YEAR OVERFLOW

STANDARD ABBREVIATIONS

BACK TO BACK OF CURB BACK OF CURB -- BACK OF CURB

BUILDING SETBACK LINE
 STORM CATCH BASIN

B.S.L. - BUILDING SETBACK LINE
C.B. - STORM CATCH BASIN
C.E. - COMMONWEALTH EDISON CO.
D.E. - DRAINAGE EASEMENT
E-E - EDGE TO EDGE OF PAVEMENT
E.O.S. - EDGE OF PAVEMENT
E.O.S. - EDGE OF PAVEMENT
E.S. - EDGE OF PAVEMENT
E.S. - EDGE OF PAVEMENT
F.E.S. - FLARED END SECTION
I.B.T. - ILLINOIS BELL TELEPHONE CO.
L.E. - LANDSCAPE EASEMENT
M.H. - MANHOLE (TYPE SPECIFIED ON F

M.H. - MANHOLE (TYPE SPECIFIED ON PLANS)

M.H. — MANHOLE (TYPE SPECIFIED ON PLANS)
R.O.W. — RIGHT OF WAY
T.B.F. — TRENCH BACKFILL
T.C. — TOP OF CURB
T.C.E. — TEMPORARY CONSTRUCTION EASEMENT
T.O.B. — TOP OF BERM
U.E. — UTILITY EASEMENT

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HUNTLEY MYORKVILLE
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108 ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF CARPENTERSVILLE MAIN STREET OVER THE FOX RIVER INDEX OF SHEETS, LIST OF STATE STANDARDS, AND GENERAL NOTES

SCALE: "NTS"

DRAWN BY WJH CHECKED BY TEH

ĺ		SUMMARY OF QUANTITIES		URBAN	CONST ROADWAY	RUCTION TYPE BRIDGE		-	
		SUMMARY OF WUANTITIES	···-	TOTAL QUANTITIES	80% FEDERAL	80% FEDERAL 20% LOCAL	LIGHTING 80% FEDERAL 20% LOCAL	1	
ŀ	CODE NO. 20101000	ITEM TEMPORARY FENCE	UNIT	430	1000-2A 430	X080-2A	Y030-1E	-	CODE NO.
*	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	48	48	-	-		55100400
•	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD			-	-		55100500
	20400800			2,053	2,053	•	-		55100900
	20700420	FURNISHED EXCAVATION	CU YĐ	99	99	-	-		55101200
		POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	909	909	-	-		56103000
	20800150	TRENCH BACKFILL	CU YĐ	334	334	-	-		56103100
	20900110	POROUS GRANULAR BACKFILL	CU YD	106	-	106	-		56103400
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3,100	3,100	-	-		56104900
*	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1,113	1,113	-	-		56105000
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	21	21	-	-		56105300
k	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	21	21	-	-		56200700
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	21	21	-	-		56201800
k	25200110	SODDING, SALT TOLERANT	SQ YD	1,113	1,113	-	•		56400500
	28000400	PERIMETER EROSION BARRIER	F00T	265	265	-			56400820
	28000500	INLET AND PIPE PROTECTION	EACH	11	11	-	-		58700200
	28000510	INLET FILTERS	EACH	11	11	-	-		59000100
	28100105	STONE RIP RAP, CLASS A3	SQ YD	33	-	33	-		59100100
	28200200	FILTER FABRIC	SQ YD	33	<u>-</u> ·	33	-		60100915
	31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2,739	2,739				60201105
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	274	274	-	-		60207905
	40600300	AGGREGATE (PRIME COAT)	TON	4	4	-			60218400
	42001165	BRIDGE APPROACH PAVEMENT	SQ ÝD	207	207	-	-		60221100
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	42	42	-			60236800
-	42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVENENT, 6 INCH	SQ YD	364	364	-	_		60248700
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	11,762	11,762	_	_		00248700
	44000100	PAVEMENT REMOVAL	SQ YD	3,753	3,753	_	-		60248900
İ	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	193	193	_			
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	567	567				60255800
	44000600	SIDEWALK REMOVAL	SQ FT	6,065	6,065	_	_		60265900
	44200108	PAVEMENT PATCHING, TYPE II, 9 INCH	SQ YD	30	30	_		١.	
	50101600	REMOVAL OF EXISTING SUPERSTRUCTURES	L SUM	1		1			60266300
	50102400	CONCRETE REMOVAL	CU YD	94.7		94.7			60266500
	50200100	STRUCTURE EXCAVATION	CU YD	204	_	204			60500040
				-	· -		1		60500060
	50300120 50300225	PREFORMED JOINT SEAL 2 ½"	FOOT	96	-	96	-		60600605
		CONCRETE STRUCTURES	CU YD	199.7	-	199.7	-		60603800
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	53.6	-	53.6	•		67000400
	50300260	BRIDGE DECK GROOVING	SQ YD	618	~	618	-		72000100
	50300300	PROTECTIVE COAT	SQ YD	237	-	237	-	-	72400100
	50301245	FORMED CONCRETE REPAIR (<= 5" DEPTH)	SQ FT	7	-	7	-		72400200
	50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	7,687	-	7,687	-		72400310
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	64,100		64,100	-		
	51500100	NAME PLATES	EACH	1	-	1	•		
	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	1	-	-		
	54247150	GRATING FOR CONCRETE FLARED END SECTION 30"	EACH	1	1	-			
	550A2320	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1, 12"	FOOT	53	53	-	-		
	550A2330	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1, 15"	FOOT	12	12	-	-		
	550A2340	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1, 18"	FOOT	18	18	-	-		
	550A2380	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1, 30"	FOOT	295	295	-	-		
	550A2520	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 2, 12"	FOOT	124	124	-	_		
	550A2570	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 2, 27"	FOOT	160	160	-			
- 1			4	1	(1	1	1	

					URBAN	CONST	RUCTION TYP	CODE	F.A.P.	SECTION	COUNTY	TOTAL	
			SUMMARY OF QUANTITIES			ROADWAY	BRIDGE	LIGHTING	RTE.	02-00059-00-BR	KANE	SHEETS 51	S NO.
				- 	TOTAL QUANTITIES	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	STA.	02-00039-00-BK	TO STA.	1 31	1 3
_	-	CODE NO.	ITEM	UNIT		1000-2A	X080-2A	Y030-1E	FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PR				OJECT
		55100400	STORM SEWER REMOVAL 10"	FOOT	20	20	-	-			CONT	RACT #:	8378
		55100500	STORM SEWER REMOVAL 12"	F00T	89	89		-					
		55100900	STORM SEWER RENOVAL 18"	FOOT	18	18		-					
		55101200	STORM SEWER REMOVAL 24"	FOOT	468	468	-	-					
	Δ	56103000	DUCTILE IRON WATER MAIN 6"	FOOT	77	77	-	-					
		56103100	DUCTILE IRON WATER MAIN 8"	FOOT	412	412	-	-					
		56103400	DUCTILE IRON WATER MAIN 16"	FOOT	23	23	-	-					
	Δ	56104900	WATER VALVES 6"	EACH	4	4	-	-					
	Δ	56105000	WATER VALVES 8"	EACH	2	2	-	-					
		56105300	WATER VALVES 16"	EACH	5	5	-	-					
		56200700	WATER SERVICE LINE 2"	FOOT	125	125	-	-					
	Δ	56201800	CORPORATION STOPS 2"	EACH	5	5	-	-					
	Δ	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2	2	-	•					
-	Δ	56400820	FIRE HYDRANTS WITH AUXILIARY VALVE AND VALVE BOX	EACH	3	3	-	-					
		58700200	BRIDGE SEAT SEALER	SQ FT	346	-	346	-					
		59000100	EPOXY CRACK SEALING	F00T	107	-	107	•					
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	39	-	39	-					
		60100915	PIPE DRAINS, 6"	FOOT	196	•	196	-					
		60201105	CATCH BASINS, TYPE A, 4'-DIA, TYPE 11 FRAME AND GRATE	EACH	4	4	-	-					
		60207905	CATCH BASINS, TYPE C, 2'-DIA, TYPE 11 FRAME AND GRATE	EACH	3	3	-	-					
		60218400	MANHOLES, TYPE A, 4'-DIA, TYPE 1 FRAME, CLOSED LID	EACH	1	1	-	-			100	Ş	
		60221100	MANHOLES, TYPE A, 5 -DIA, TYPE 1 FRAME, CLOSED LID	EACH	6	6	-	-			,		
		60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	4	4	-	-			124	ś.	
	Δ	60248700	VALVE VAULTS, TYPE A, 4'-DIANETER, TYPE 1 FRAME, CLOSED LID	EACH	8	8	-	-			Tar	F	
	Δ	60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER,	546U									
.		E0355000	TYPE 1 FRAME, CLOSED LID MANHGLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME,	EACH	4	4	-	-					
		60255800	CLOSED LID	EACH	1	1	-	•					
		60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	6	. 6	-	-					
		60266300	VALVE VAULTS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1) (m)	-					
		60266500	VALVE VAULTS TO BE REMOVED	EACH	4	4	-	-					
		60500040	REMOVING MANHOLES	EACH	3	3	-	•					
		60500060	REMOVING INLETS	EACH	10	10	-	-					
		60600605	CONCRETE CURB, TYPE B	FOOT	134	134		-					
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	F00T	1,858	1,858	-	-					
		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	15	15	- .	-					
		72000100	SIGN PANEL - TYPE 1	SQ FT	45	45	-	-					
		72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	6	6	-	•					
	- 1		· ·	1 .	1		1		1				

SMITH ENGINEERING CONSULTANTS, INC.
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS

4500 PRIME PARKENT, SUITE 201

PH. 61 Seffenty, LLMMS 200-805-1781

www.amithengineering.com # HUNILLY # YORKVILLE

ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

DRAWN BY WUH CHECKED BY TEH

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF CARPENTERSVILLE MAIN STREET OVER THE FOX RIVER SUMMARY OF QUANTITIES

SCALE: "NTS"

* SPECIALTY ITEM △ NON-PARTICIPATING ITEM - 100% LOCAL

EACH

SQ FT

REMOVE SIGN PANEL ASSEMBLY - TYPE B

REMOVE SIGN PANEL - TYPE 1

		OUMANY OF SUANTITIES	A STATE OF THE STA	URBAN		RUCTION TYPE	
		SUMMARY OF QUANTITIES		TOTAL QUANTITIES	ROADWAY 80% FEDERAL 20% LOCAL	BRIDGE 80% FEDERAL	LIGHTING 80% FEDERAL
-	CODE NO.	ITEM	UNIT	40/41/11/12	1000-2A	20% LOCAL X080-2A	20% LOCAL Y030-1E
	72900200	METAL POST - TYPE B	FOOT	11	11		. •
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	F00T	190	190	-	. -
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	112	112	- 1	•
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	102	102	-	-
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	425	425	_	; - ·
*	78003110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	60	60	-	
*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	-	. •	1
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	-	-	1
*	80700140	GROUND ROD, %" DIA. x 10 FT	EACH	62	-	-	62
*	81000700	CONDUIT IN TRENCH, 2 ½" DIA. GALVANIZED STEEL	FOOT	20		_	20
*	81000800	CONDUIT IN TRENCH, 3" DIA. GALVANIZED STEEL	FOOT	140		_	140
*	81001000	CONDUIT IN TRENCH, 4" DIA. GALVANIZED STEEL	FOOT	82		_	82
*	81018700	CONDUIT PUSHED, 3" DIA. GALVANIZED STEEL	FOOT	322		_	322
*	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3,500			3,500
*	81702180	ELECTRIC CABLE IN CONDUIT 600V (XLP TYPE USE)		3,000	,		5,000
	3.1. 32.130	1/C NO. 3/0	F00T	150	•	-	150
*	82102100	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 100 WATT	EACH	20	-	-	20
*	XX006189	DECORATIVE LANTERN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, 100 WATT	EACH	47	-		47
*	82500505	LIGHTING CONTROLLER, SPECIAL	EACH	1	-	-	1
*	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	342	-	_	342
*	84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	6		-	6
*	84500110	REMOVAL OF EXISTING CONTROLLER	EACH	1		_	1
*	84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	-	_	1
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	200	200	_	
-	X0322923	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	117	117	_	-
	X0712400	TEMPORARY PAVEMENT	SQ YD	220	220	_	_
	X3550700	BITUMINOUS BASE COURSE SUPERPAVE 10"	SQ YD	2,307	2,307	_	-
*	X2800100	TEMPORARY DITCH CHECKS, ROLLED EXCELSIOR	EACH	16	16		
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	8	8		
	X4023000	TEMPORARY ACCESS (ROAD)	EACH	2	2		
	X4066426	BITUMINOUS CONC. SURF. COURSE, SUPERPAVE, MIX "D", N70	TON	199	199	-	-
	X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL 19.0, N70	TON	331	331	. -	•
1	X5030305	CONCRETE WEARING SURFACE, 5"			331	4 444	•
*	X7011005		SQ YD	1,141	-	1,141	•
	X7011005 X7015000	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1	1		-
		CHANGEABLE MESSAGE SIGN	MONTH	12	12	-	-
	XX000479	WATER MAIN REMOVAL 6 INCH	FOOT	427	427	-	-
	XX001051	WATER SERVICE LINE RECONNECTED	EACH	1	1	-	
	XX002817	TEMPORARY LINE STOPPER, 6"	EACH	6	6		•
	XX003067	CONCRETE BRIDGE RAIL, SPECIAL	F00T	955	-	955	
	XX003991	BITUMINOUS DRIVEWAY PAVEMENT 3"	SQ YD	35	35	-	-
	XX004007	BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	430	430	-	•
1	XX00 6 188	REMOVE AND RE-ERECT SEGMENTAL BLOCK RETAINING WALL	SQ FT	117	117	-	•
	XX004731	CONNECTION TO EXISTING WATER MAIN	EACH	5	5	-	-
	XX004908	ABANDON EXISTING WATER MAIN AND FIRE HYDRANTS	L SUM	1	1	-	-
	Z0003900	BICYCLE RAILING	FOOT	575	-	575	•
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5	; -
	Z0017400	DRAINAGE AND UTILITY STRUCTURE TO BE ADJUSTED	EACH	11	11	-	. -
	Z0047300	PROTECTIVE SHIELD	SQ YD	998	-	998	-
+	20076600	TRAINEES	HOUR	1000+	500	500	-

			· · · · · · · · · · · · · · · · · · ·			CONST	RUCTION TYPE	CODE	
]			SUMMARY OF QUANTITIES		TOTAL	ROADWAY	BRIDGE	LIGHTING	1
		CODE NO.	ITEM	UNIT	QUANTITIES	80% FEDERAL 20% LOCAL 1000-2A	80% FEDERAL 20% LOCAL X080-2A	80% FEDERAL 20% LOCAL Y030-1E	
		xx006176	EXPLORATION TRENCH 120"	FOOT	600	600	-	-	
	*	XX006177	WATERMAIN HIGH DENSITY POLYETHYLENE PRESSURE PIPE, DIRECTIONAL BORING, 16"	F00T	700	700	<u>-</u>	-	
	*	XX006178	TEMPORARY LINE STOPPER, 16"	EACH	4	4	-	•	
	Δ	xx006179	SANITARY MANHOLE REMOVAL AND REPLACEMENT	EACH	3	3	-	-	
		XX006180	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH), SPECIAL TYPE A	SQ FT	1,922	-	1,922	-	
		XX006181	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH), SPECIAL TYPE B	SQ FT	641	-	641	-	
	*	XX006182	UNIT DUCT WITH 5-1/C NO. 6 AND 1/C NO. 6 GROUND SOO V (XHHW-2), 1 1/4" DIA. POLYETHYLENE	FOOT	4,500	-	-	4,500	
	*	XX006183	ELECTRIC CABLE IN CONDUIT 600 V (XHHW-2), 6 1/C NO. 6	F00T	540	-	-	540	
			ELECTRIC CABLE IN CONDUIT 600 V (XHHW-2), 5 1/C NO. 10	F00T	660	•	-	660	
	*	XX006185	DECORATIVE, LIGHT POLE, ALUMINUM, 16 FT MOUNTING HEIGHT, FLUTED SHAFT AND 2 PIECE BOLT ON DECORATIVE BASE	EACH	37	-	-	37	
	*	XX006186	DECORATIVE, LIGHT POLE, ALUMINUM, 10 FT FLUTED SHAFT AND 2 PIECE BOLT ON DECORATIVE BASE	EACH	10	-	-	10	
	*	XX005560	LIGHT POLE, ALUMINUM, 25 FT MOUNTING HEIGHT, 8 FT MAST ARM	EACH	20	-	-	20	

	F.A.P. RTE.	SECTI-	ON	COUNTY	TOTAL SHEETS	SHEET NO.
G AL		02-00059	-00-BR	KANE	51	4
L	STA.					
:	FED. R	POAD DIST.	NO. 1	ILLINOIS HIGH	NAY PRO	VECT
				CONTR	ACT #:	83783

SMITH ENGINEERING CONSULTANTS, INC.
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS

4000 PERME PARKARY, SUITE 801

PER 8 SOLEMAN, LILLINGS 8020-81-101

PER 8 SOLEMAN, LILLINGS 8020-81-101

W smithengiaeering cosm** **HUNILEY** **VORKVILE**

ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF CARPENTERSVILLE MAIN STREET OVER THE FOX RIVER SUMMARY OF QUANTITIES

SCALE: "NTS"

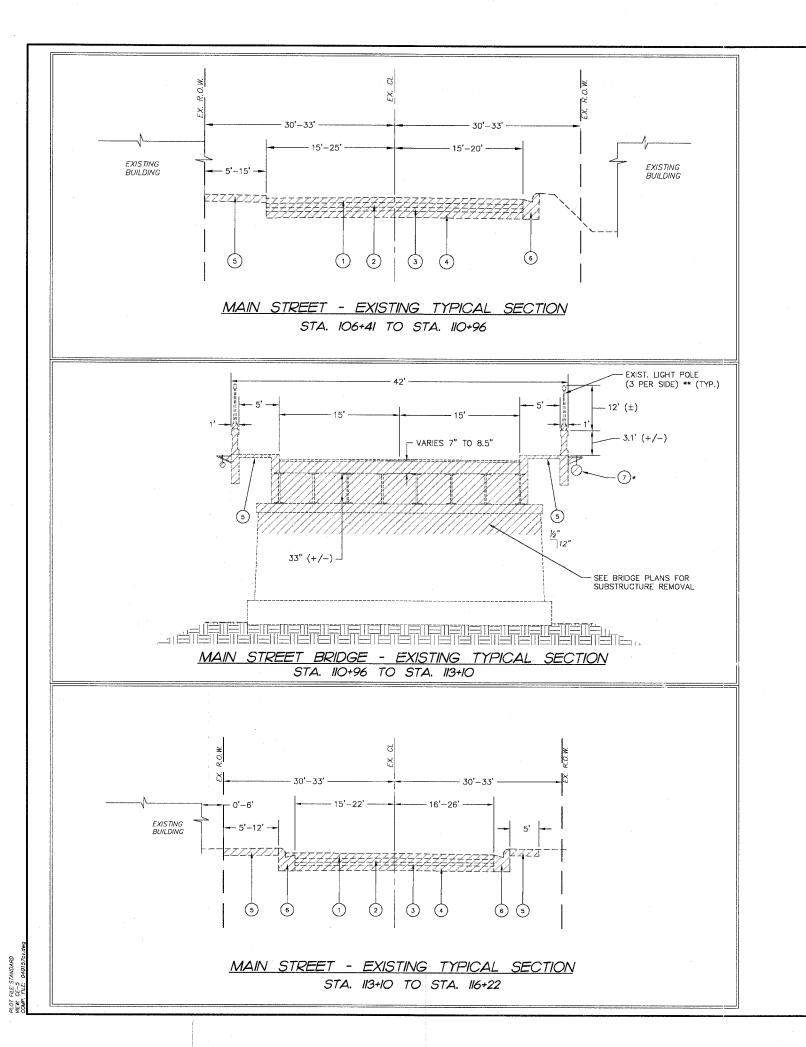
DRAWN BY WJH CHECKED BY TEH

+ 4080

* SPECIALTY ITEM

^ NON-PARTICIPATING ITEM - 100% LOCAL

Y060



SECTION COUNTY SHEETS NO. 1283 02-00059-00-BR STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT

CONTRACT #: 83783

(1) EXISTING BITUMINOUS PAVEMENT 4.25" - 8.5" (2) EXISTING PAVING BRICKS, 3.5" (3) EXISTING SAND BASE, 2" - 3" (4) EXISTING CONCRETE BASE, 3" - 5" (5) EXISTING PCC SIDEWALK (6) EXISTING CONCRETE CURB AND GUTTER 7) EXISTING WATERMAIN, 16" * (8) PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 1.5" (9) PROPOSED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70, 2.5" (10) PROPOSED CONCRETE WEARING SURFACE, 5" (11) PROPOSED AGGREGATE BASE 2" (CA-6 CRUSHED) (INCLUDED IN COST OF PCC SIDEWALK) (12) PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5" (13) PROPOSED BITUMINOUS BASE COURSE, SUPERPAVE, 10" (14) PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4" (15) PROPOSED TOPSOIL FURNISH AND PLACE, 6" & SODDING, SALT TOLERANT (16) PROPOSED CONCRETE BRIDGE RAIL, SPECIAL (17) PROPOSED POROUS GRANULAR EMBANKMENT, SUBGRADE (12" DEPTH, SEE NOTE BELOW) (18) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MINIMUM THICKNESS OF GUTTER FLAG SHALL BE 9". ADDITIONAL AGGREGATE UNDER GUTTER FLAG SHALL BE INCLUDED IN THE COST OF COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12) (19) PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SEE NOTE BELOW)

* EXISTING WATER MAIN TO REMAIN IN SERVICE UNTIL PROPOSED WATER MAIN HDPE PRESSURE PIPE, DIRECTIONAL BORING, 16" IS COMPLETED, TESTED, AND

(20) PROPOSED CONCRETE SUPERSTRUCTURE (CLASS BD CONCRETE) 4" THICK

** WORK TO REMOVE EXISTING LIGHT POLES, CONDUIT, ETC. WITH THE EXISTING SUPERSTRUCTURE SHALL BE PAID FOR UNDER "REMOVAL OF EXISTING SUPERSTRUCTURES."



ILLINOIS DEPARTMENT OF TRANSPORTATION

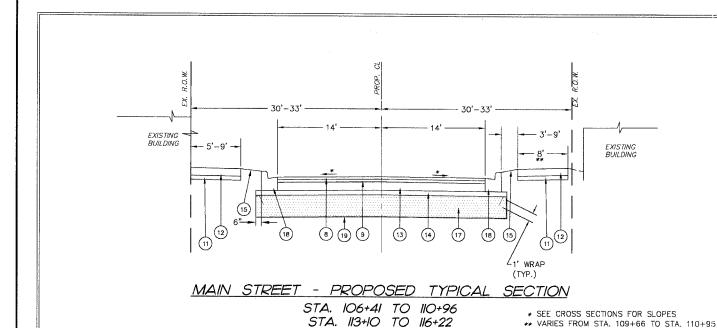
VILLAGE OF CARPENTERSVILLE MAIN STREET OVER THE FOX RIVER EXISTING TYPICAL SECTIONS

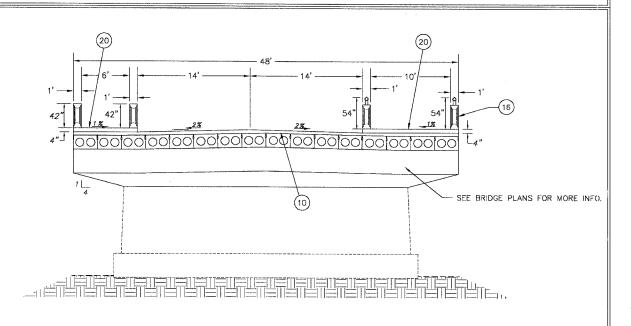
SCALE: "NTS" DATE 02-25-2005

DRAWN BY WJH CHECKED BY TEH



ITEMS TO BE REMOVED





MAIN STREET BRIDGE - PROPOSED TYPICAL SECTION STA. 110+96 TO 113+10

BITUMINOUS	MIXTURE	REQUIREMENT		
ITEM DESCRIPTION	AC TYPE	VOIDS	RAP %	THICKNESS
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70	PG 64-22	4% @ 70 Gyr.	10%	1½"
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70	PG 64-22	4% © 70 Gyr.	15%	2½"
BITUMINOUS BASE COURSE, SUPERPAVE 10" (ROADWAY)	PG 58-22	2% © 50 Gyr.	50%	10"

LEGEND

(1) EXISTING BITUMINOUS PAVEMENT 4.25" - 8.5"

(2) EXISTING PAVING BRICKS, 3.5"

(3) EXISTING SAND BASE, 2" - 3"

EXISTING CONCRETE BASE, 3" - 5"

(5) EXISTING PCC SIDEWALK

(6) EXISTING CONCRETE CURB AND GUTTER

(7) EXISTING WATERMAIN, 16" *

(8) PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 1.5"

(9) PROPOSED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70, 2.5"

(10) PROPOSED CONCRETE WEARING SURFACE, 5"

(11) PROPOSED AGGREGATE BASE 2" (CA-6 CRUSHED) (INCLUDED IN COST OF PCC SIDEWALK)

(12) PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5"

(13) PROPOSED BITUMINOUS BASE COURSE, SUPERPAVE, 10"

(14) PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4"

(15) PROPOSED TOPSOIL FURNISH AND PLACE, 6" & SODDING, SALT TOLERANT

(16) PROPOSED CONCRETE BRIDGE RAIL, SPECIAL

(17) PROPOSED POROUS GRANULAR EMBANKMENT, SUBGRADE (12" DEPTH, SEE NOTE BELOW)

18) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MINIMUM THICKNESS OF GUTTER FLAG SHALL BE 9°. ADDITIONAL AGGREGATE UNDER GUTTER FLAG SHALL BE INCLUDED IN THE COST OF COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12)

(19) PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SEE NOTE BELOW)

(20) PROPOSED CONCRETE SUPERSTRUCTURE (CLASS BD CONCRETE) 4" THICK

"POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES OVER GEOTECHNICAL FABRIC FOR GROUND STABILIZATION WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSTABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO COMPENSATION WILL BE DUE THE CONTRACTOR."

ALL RECOMMENDED UNDERCUTS ARE FROM 6" OUTSIDE THE EDGES OF CURB AND GUTTER. DEPTHS WILL BE DETERMINED BY A LICENSED SOILS ENGINEER. LIMITS ARE FROM STA 106+41 TO 110+96 AND 113+10 TO 116+22

PAVEME	NT STRUCTURAL DESIGN SPE	. DESIGN - MA ED = 30 MPH	
STRUCTURAL DES	GIGN TRAFFIC	DESIGN YEAR	2 = 2023
CLASSIFICATION:	CLASS II	ADT:	23,000
DESIGN PERIOD:	20 YEARS	PV:	22,654
TRAFFIC FACTOR:	4.74	SU:	231
ILLINOIS BEARING RATIO	; 3	MU:	231
STRUCTURAL DESIGN #(I	Ot): 4.84		
	SURFACE COURSE, SUPERPA BINDER COURSE, SUPERPAV RSE, SUPERPAVE, 10"		x .40 = 0.60 X .33 = 0.83 X .33 = 3.33

X .11 = 0.44

* EXISTING WATER MAIN TO REMAIN IN SERVICE UNTIL PROPOSED WATER MAIN HOPE PRESSURE PIPE DIRECTIONAL BORING, 16" IS COMPLETED, TESTED, AND

SUB-BASE GRANULAR MATERIAL, TYPE B-4"

F.A.P. RTE.	SECTION		COUN	/TY	TOTAL SHEETS	
1283	02-00059-00-B	R	KAN	ΙE	51	6
STA.			TO STA			
FED. R	OAD DIST. NO. 1	ľ	ILLINOIS	HIGH	NAY PRO	JECT

CONTRACT #: 83783

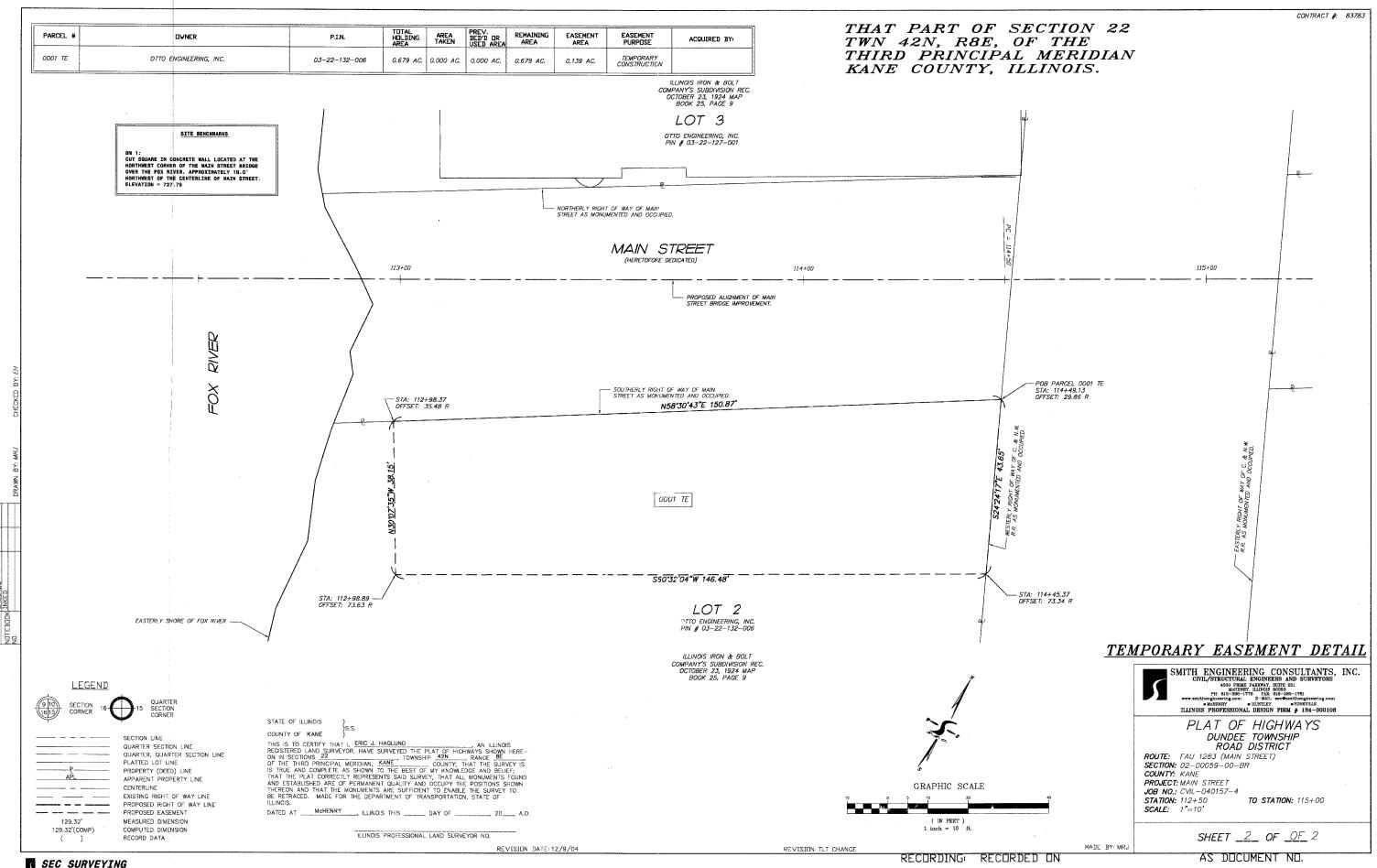
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

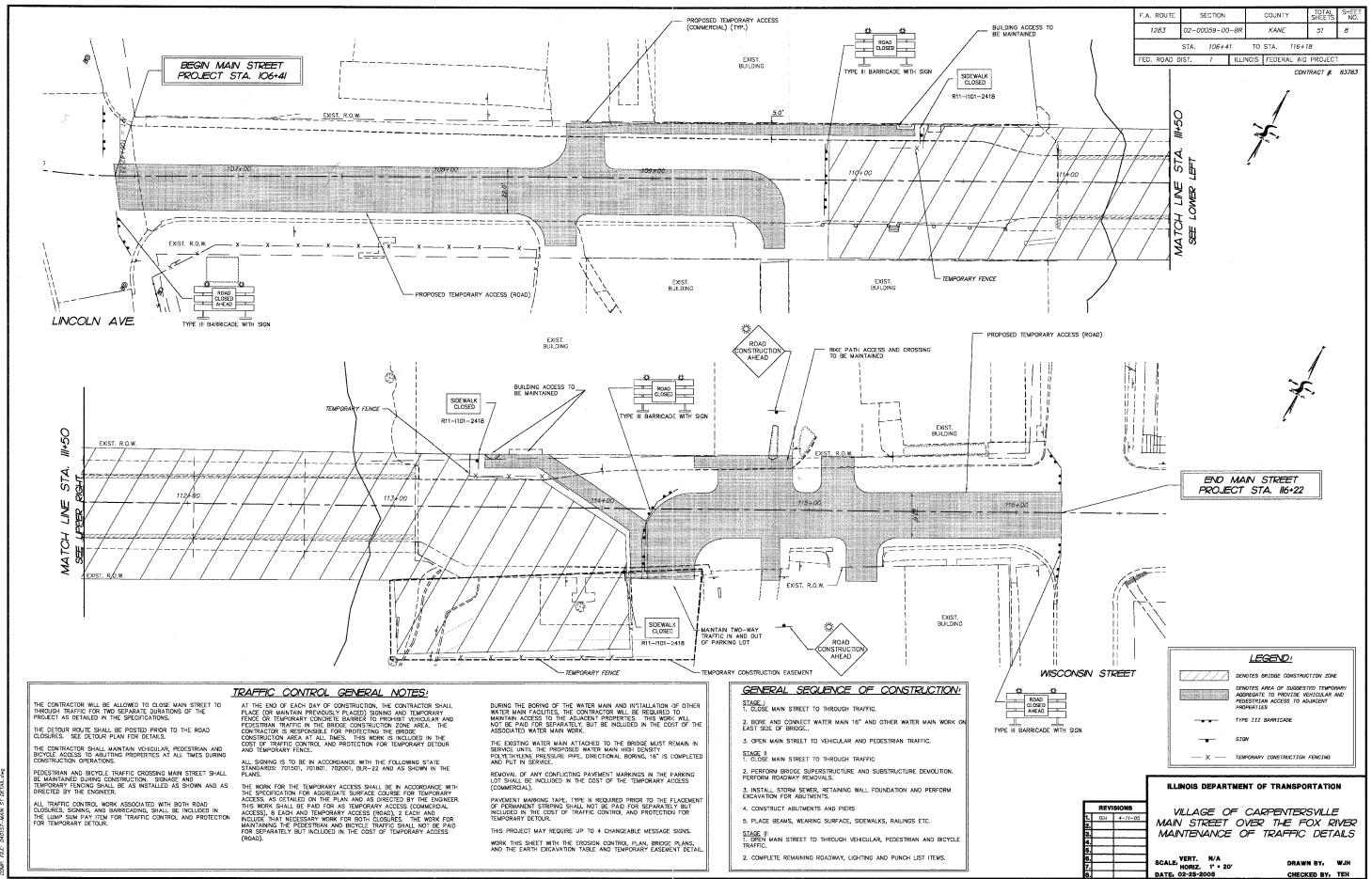
VILLAGE OF CARPENTERSVILLE MAIN STREET OVER THE FOX RIVER PROPOSED TYPICAL SECTIONS

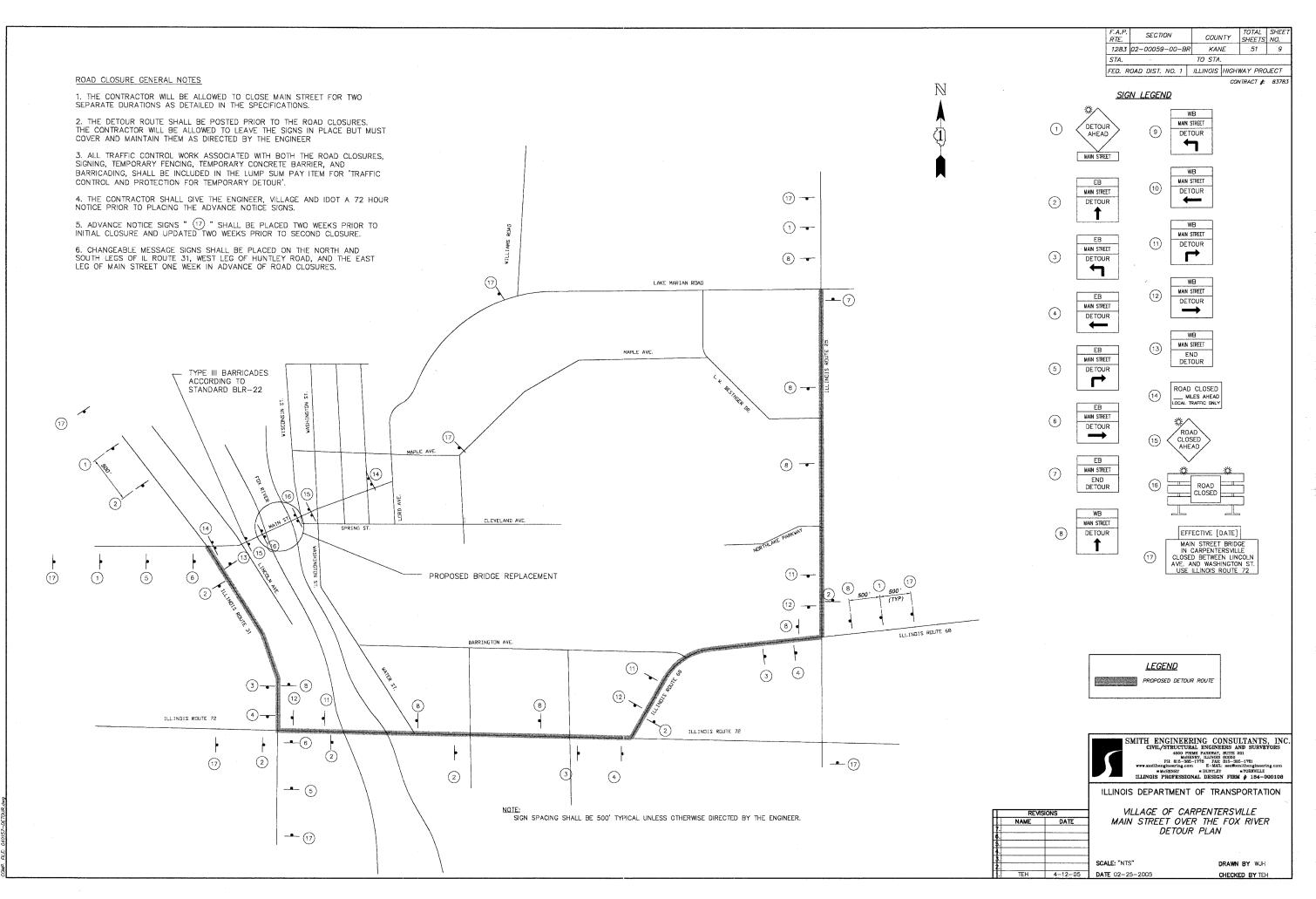
SCALE: "NTS" DATE 02-25-2005

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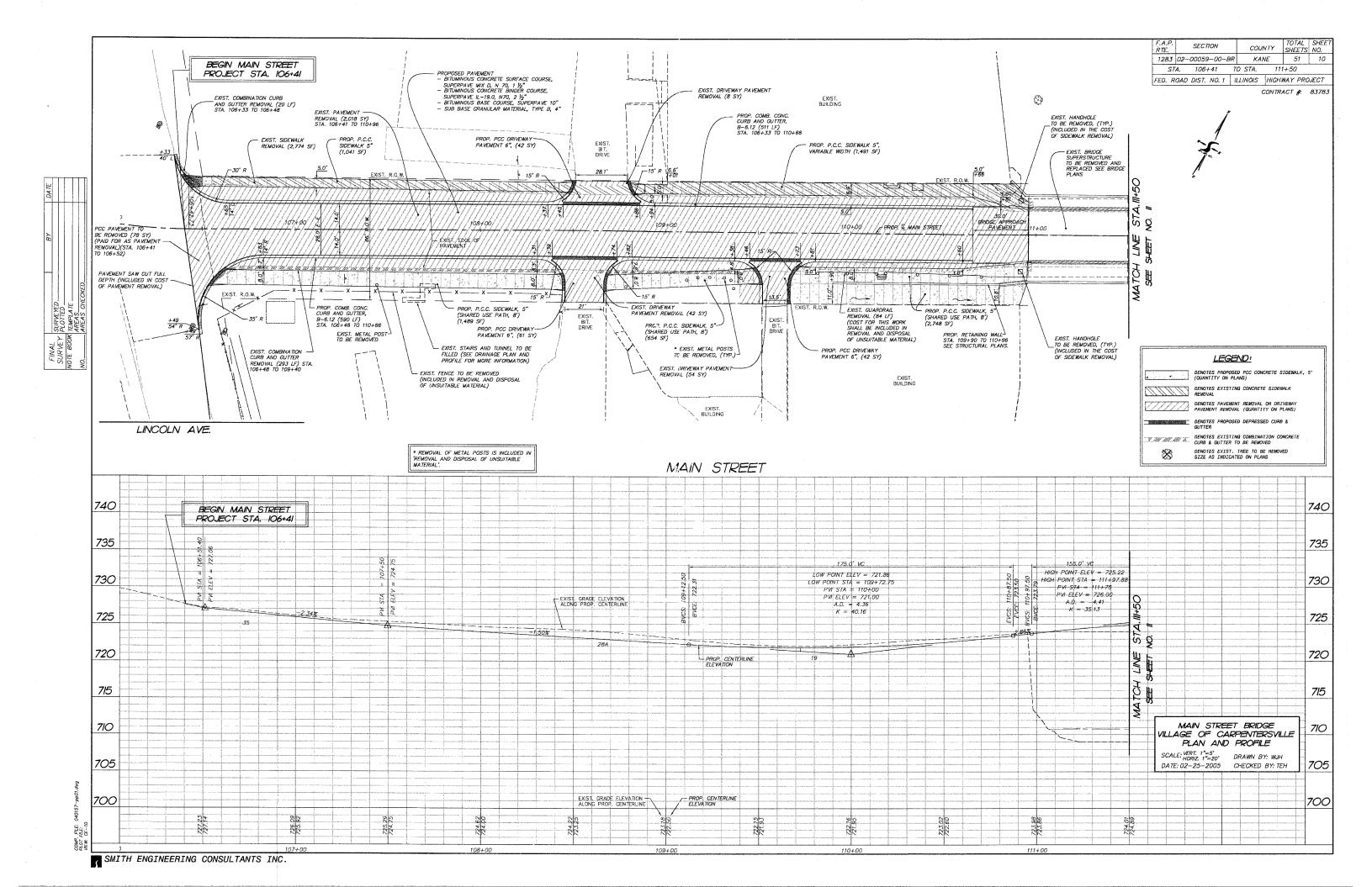


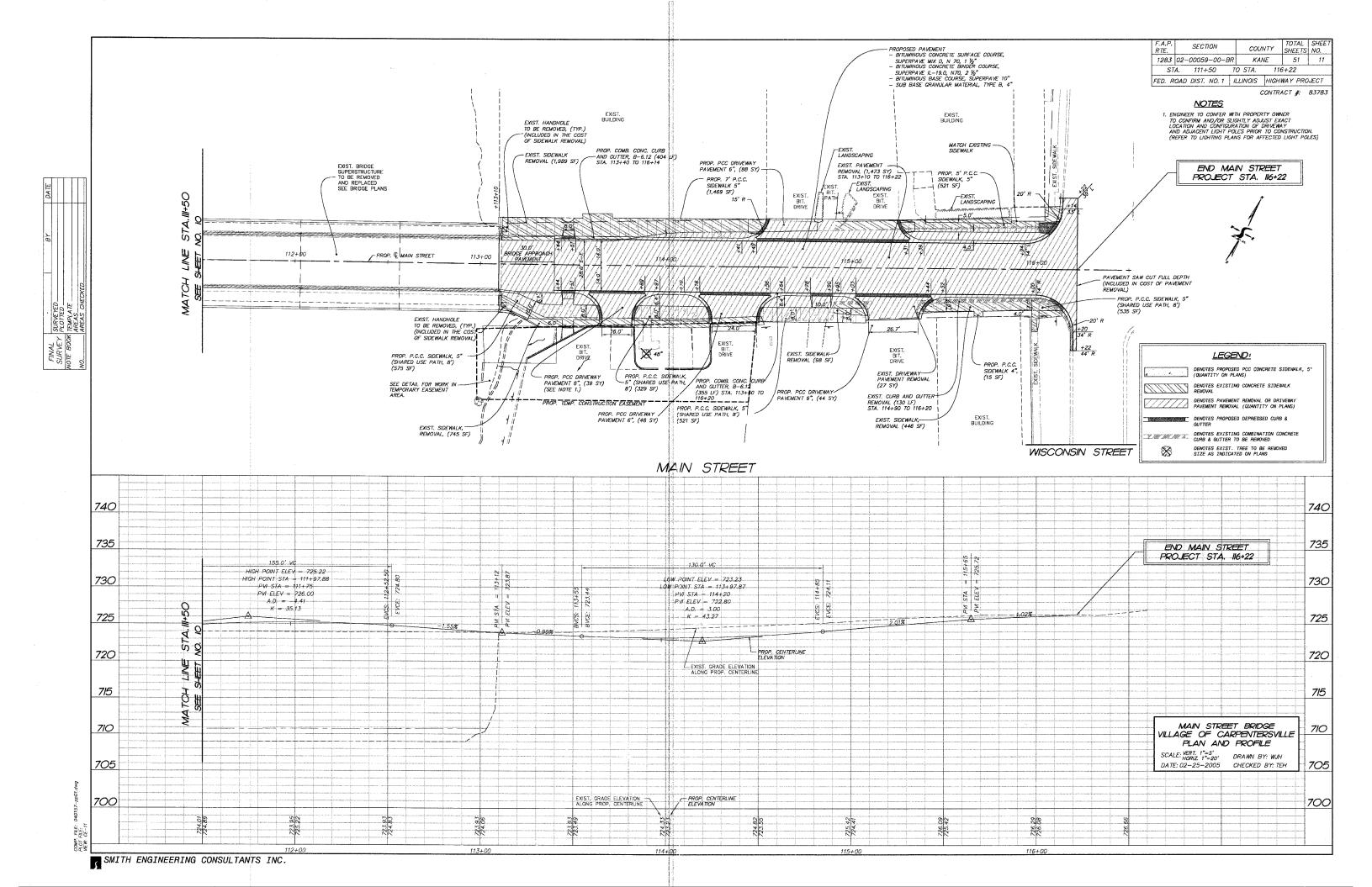
R.D.W. PLAT

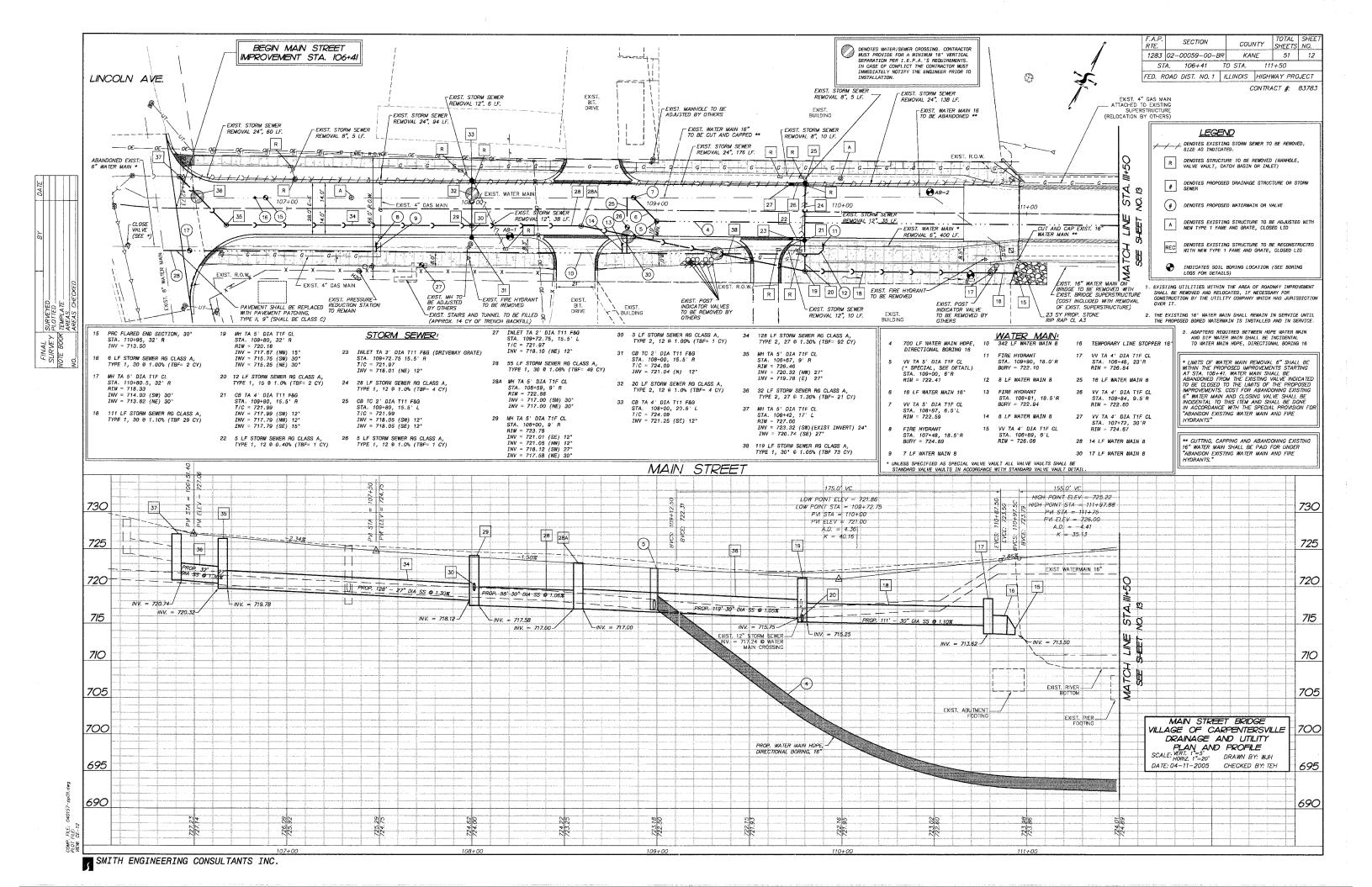


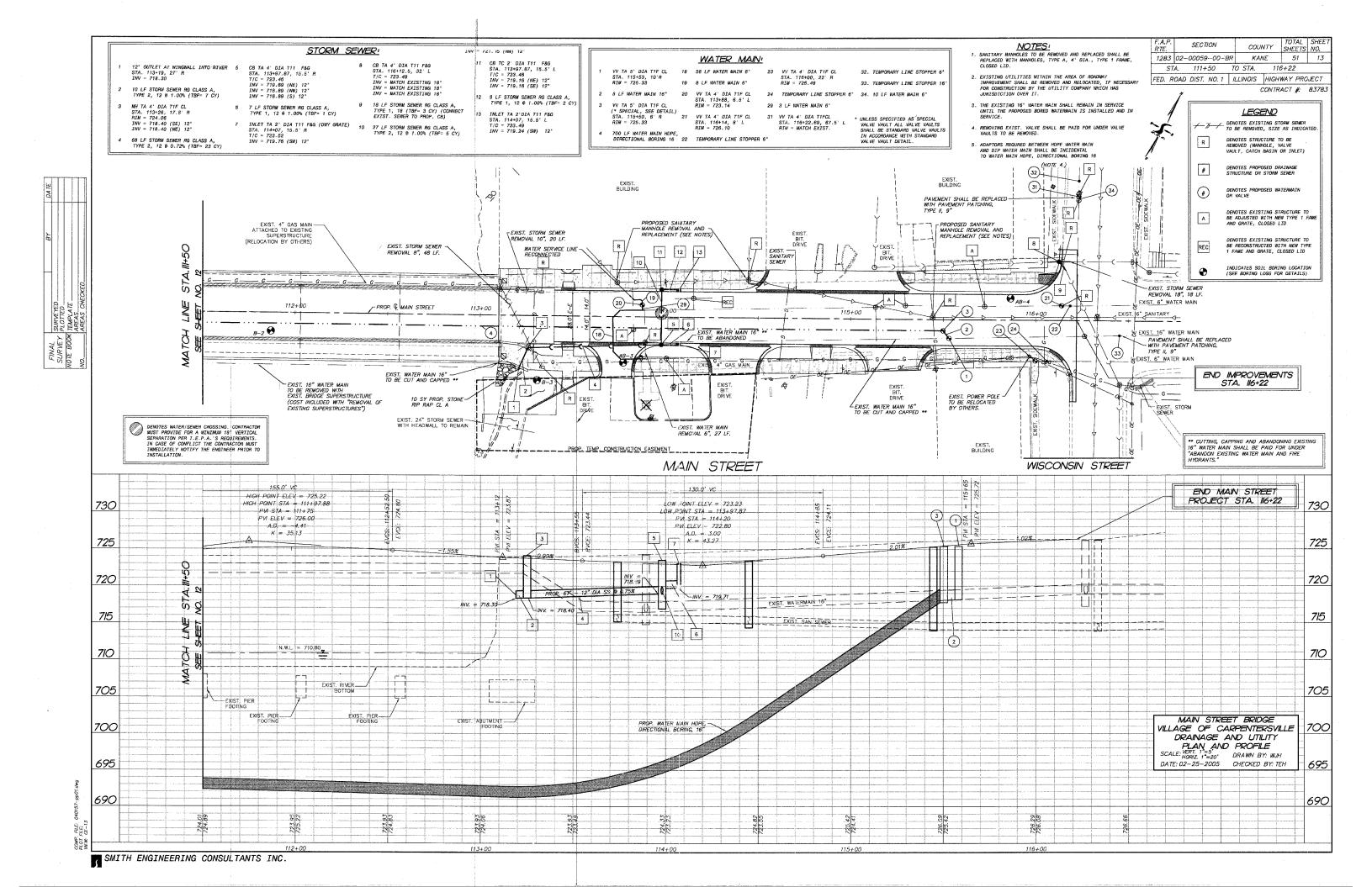


OT FILE: STANDARD
W: CE-9









SECTION COUNTY F.A. ROUTE 02-00059-00-BR KANE STA. STA SCHLEEDE-HAMPTON ASSOCIATES, INC. SCHLEEDE-HAMPTON ASSOCIATES, INC. SCHLEEDE-HAMPTON ASSOCIATES, INC. SCHLEEDE-HAMPTON ASSOCIATES, INC. · CONSULTING ENGINEERS CONSULTING ENGINEERS FED. ROAD DIST. 1 ILLINOIS HIGHWAY PROJECT RECORD OF SUBSURFACE EXPLORATION RECORD OF SUBSURFACE EXPLORATION CONTRACT #: 83783 GORING AB-3 PAGE 1 OF 1 DATE STARTED

DATE COMPLETED

S/14/02

DRILER

S BORNO METHOD

OW ENCOUNTERED WHILE DRILLING

GROUNDWATER, AT COMPLETION

GROUNDWATER, ATTER

HOLE CAVED, 9,4' AT CT NAME MAIN STREET BRIDGE PROJECT NAME MAIN STREET BRIDGE PROJECT NAME MAIN STREET BRIDGE SHA PROJECT NO. 82231
SITE LOCATION CARPENTERSVILLE \$1,000S SHA PROJECT NO. 82231
SITE LOCATION CARPENTERSVILLE, ILLINOIS SHA PROJECT NO. 62231
SITE LOCATION CARPENTERSVILLE, ILLINOIS GROUNDWATER, AT COMPLETION
GROUNDWATER, AFTER DAYS
HOLE CAYED, AT 86' East of Bridge Abutmer 24' South of Center Line DEPTH SAMPLE N Ou Op Wo Remarks DESCRIPTION B 1/2" AC over 3" Brown GRAVEL, A-1 4 1/4" 40 4 1/4" AC 4 1/2"7 3/4" Paving Brick 7 3/4"-10" Send 10"-13 1/2" PCC 13 1/2"-90"± SANO and GRAVEL, A-1 30"± Brown Sandy LOAM, A-4: FILL Dark Brown SAND (f), trace Gravel, A-3: FLL possible RAP or Cinders to 3.0 lerge sieg Adjacent Sanitary Sewer Dark Brown SAND (f), trace Gravel, A-3 Cinders and fine Send, trace Brick: FILL Obstruction Terminated Bore Hole Possible Utilities End of Boring @ 5.5° Black Clay LOAM, A-6 to A-7-8 wez @ 7.0' grades to Dark Brown Clay LCAM @ 8.5" Black Glay LOAM, A-7-6 End of Buring @ 10.0 End of Baring @ 10.0" Grey CLAY, A-7-6 SYMPO-MARCH PROPERTIES THE CHROST TO THE CONTROL OF T SAMPLE DESIGNATION
SS. DRIVEN SPLT SPOON 1 349" I.D., 2" O.D.,
ST. FRESSED SHELBY TUBE
ALL ALGER SAMPLE
DOPMIC METERS—100M
DOPMIC METERS—100M
HISA-HELLOW STEM AUGISR
CFA-CONTRIVALOR FLIGHT AUGISPS
C. CASING
M.- MUJO DRILLING SYMBOLS

N: STANDARD PENETRATION, BLOWS/FT.

CIZ. UNCONFINED COMPRESSIVE STRENGTH, TONSISO, FT.
WG. WATER CONTENT, N SYMBOLD

NO STANDARD PENETRATION, BLOVASTI.

CL. LACONINAED COMPRESSIVE STHERGITH, TONSSO, FT.

LL. LUGSTLAMT, W.

LL. LUGSTLAMT, W.

LL. LUGSTLAMT, W.

LL. LUGSTLAMT, W.

C. HANTIARA, DAY DENSITY, LIBSJCLL FT.

COMPRESSIVE STREAMS CONTROLLED.

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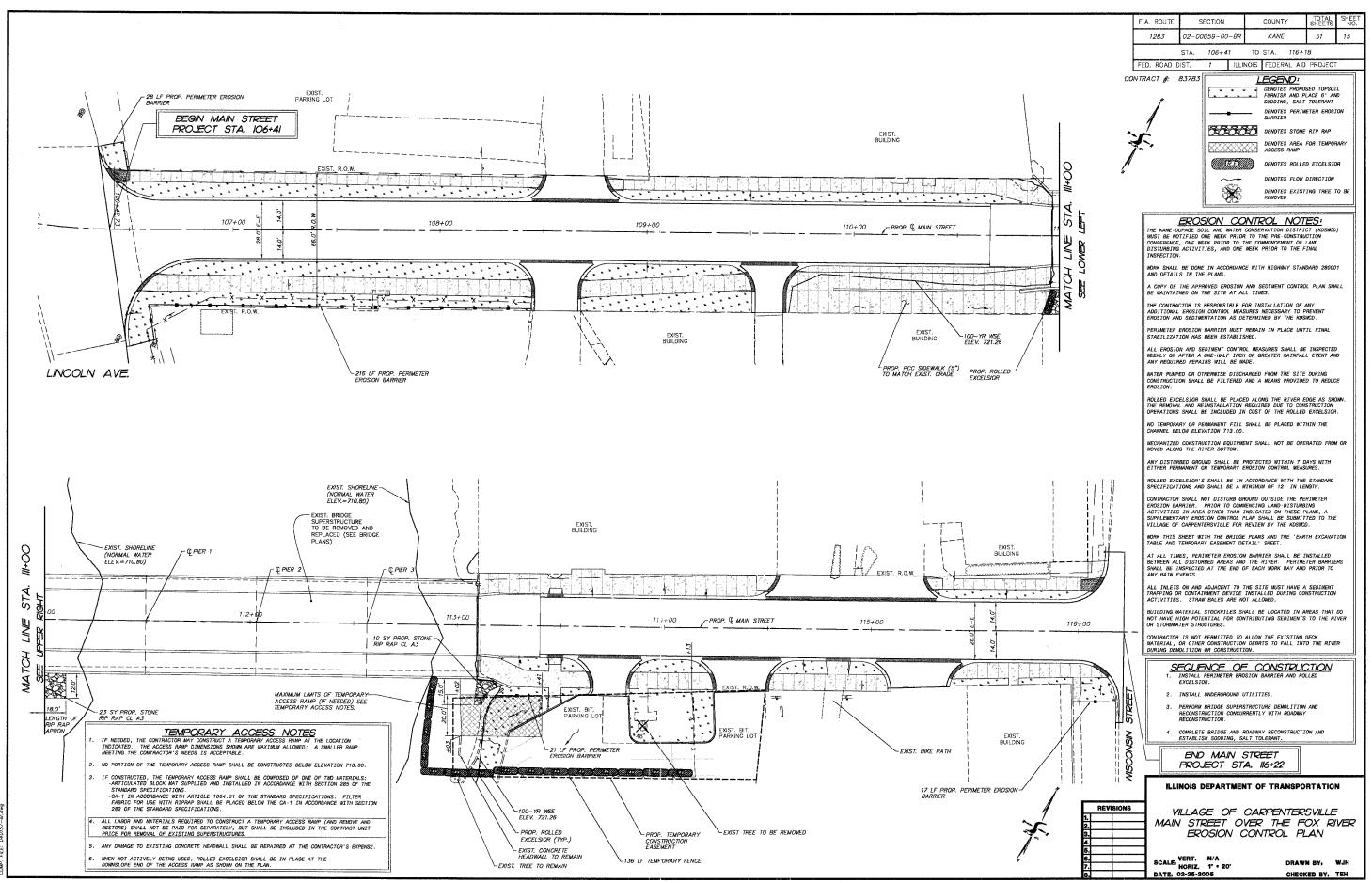
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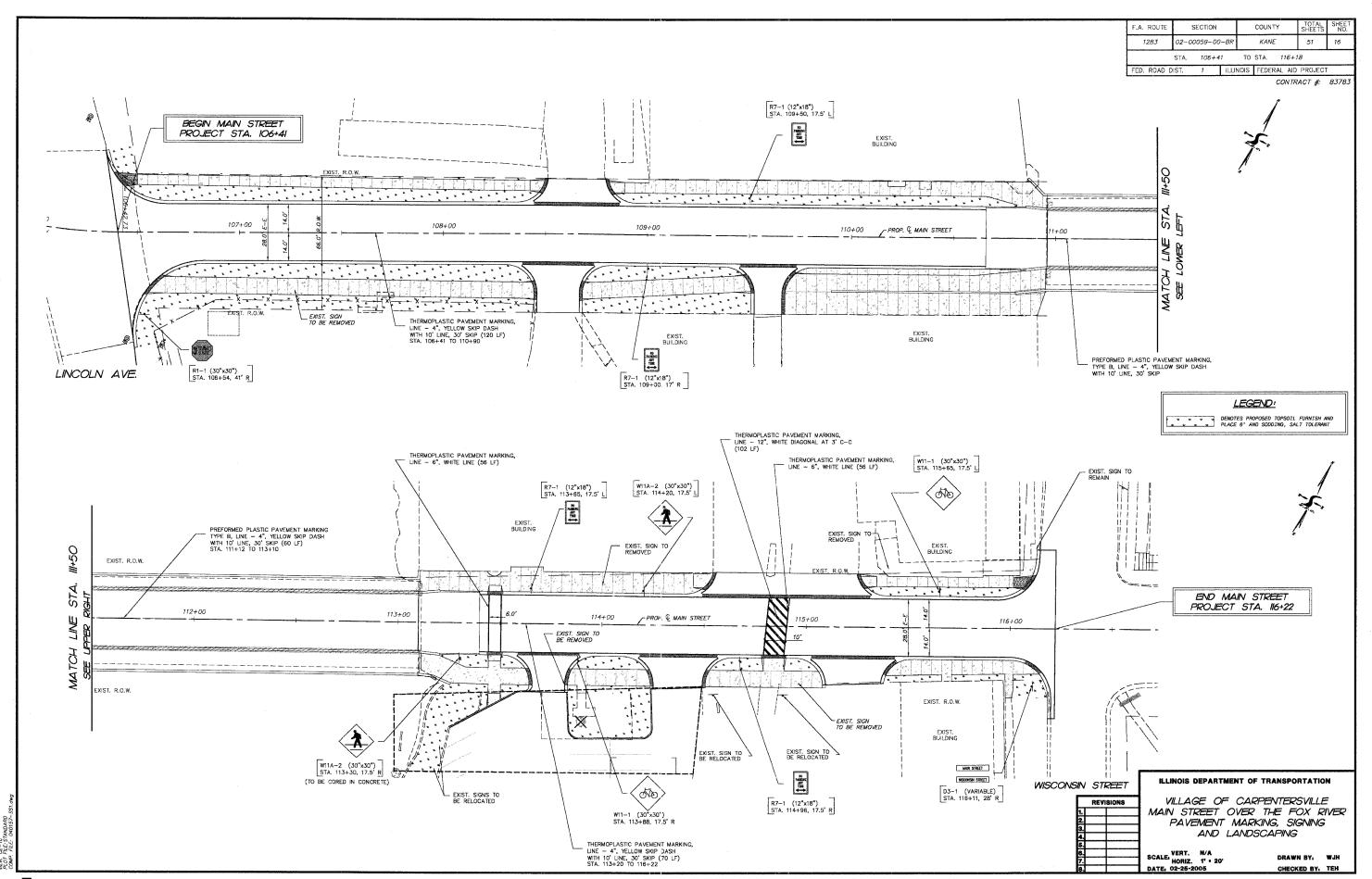
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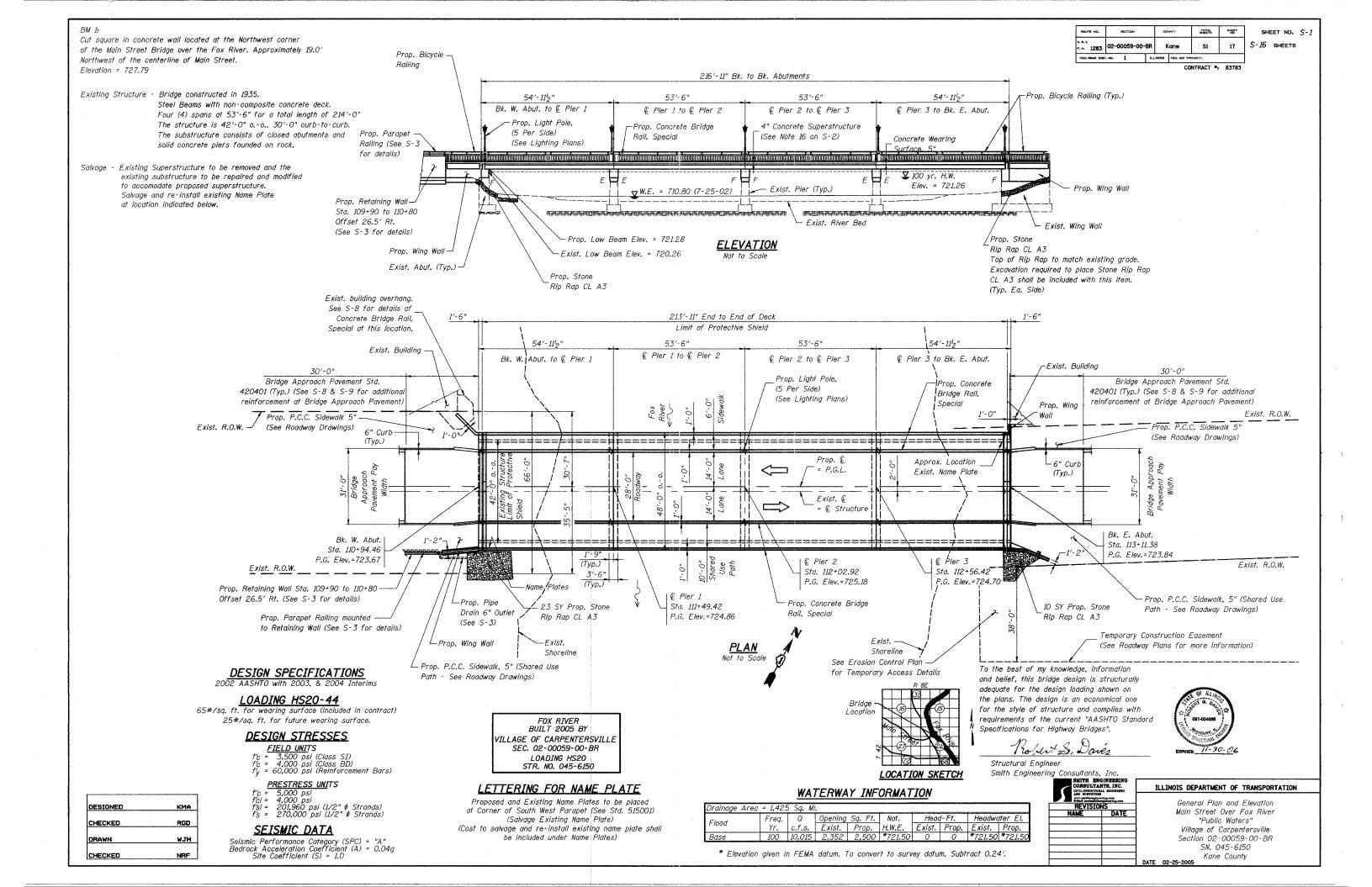
CONTROLLED.

CON SCHLEEDE-HAMPTON ASSOCIATES, INC. • CONSULTING ENGINEERS SCHLEEDE-HAMPTON ASSOCIATES, INC. CONSULTING ENGINEERS
 SCHLEEDE-HAMP ON ASSOCIATES, INC. SCHLEEDE-HAMPTON ASSOCIATES, INC. WATER MAIN BORING LOG CONSULTING ENGINEERS WATER MAIN BORING LOG WATER MAIN BORING LOG SHEET 1 OF 1 SHEET 1 OF 1 SHEET 1 OF 2 SHEET 2 OF 2 PROJECT 84361 WATER MAIN CROSSING AT THE FOX NIVER DATE 8/4/04 PROJECT 84361 WATER MAIN CROSSING AT THE FOX NIVER DATE 8/3/04 PROJECT 84361 WATER MAIN CROSSING AT THE FOX RIVER DATE 8/2/04 BORING B-3 BORED BY GJS BORED BY _____GJS____ ROUTE MAIN STREET - CARPENTERSVILLE, ILLINOIS ROUTE MAIN STREET - CARPENTERSVILLE, ILLINOIS ROUTE MAIN STREET - CARPENTERSVILLE, ILLINOIS BORED BY GJS SECTION MAIN STREET BRIDGE OVER FOX RIVER STATION 110+70 CHECKED BY WJW SECTION MAIN STREET BRIDGE OVER FOX RIVER STATION 111+87 CHECKED BY WJW SECTION MAIN STREET BRIDGE OVER FOX REVER STATION 113+31 CHECKED BY WJW KANE WATER SURFACE EL. 8.5' COUNTY KANE WATER SURFACE EL. 13.0' COUNTY KANE WATER SURFACE EL. 10.0* GROUND WATER AT COMPLETION GROUND WATER AT GROUND WATER CONTINUED Grey Shale oth N/6" tsf % AFTER ____ HOURS_
 STATION
 113-31
 Qu
 W
 ENCOUNTERED AT
 13.5

 OFFSET
 35' S of Main CL
 Depth N/6"
 tsf
 %
 AFTER
 HOURS
 h N/6" tsf | % AFTER ... HOURS OFFSET 33' R of CL OFFSET 10' S of CL GROUND SURFACE EL. 719.0 Dark Brown Sity CLAY/TOPSOIL: GROUND SURFACE EL. 7Z5± M (Ft)
2" Asphalt, 8" PCC Bridge Deck GROUND SURFACE EL. 723.4 M (Ft) Dolarnitic Limestone 6 4 Run #1: 20*:23* (Blockort) Riccovery = 100% Riccover Dolomitic Lintestone Bedrock Brown to Dark Brown SAND and GRAVEL, A-2: FILL slightly to medium dense End of Boring @ 21.5' Recovery 100% RQD = 44.6% Qu = 14,000 psi @ 22.0' *Qu = 4,140 psi @ 28.0' ith trace Cinders, Brick, Debris 7 Run #2: 23' - 28' (Blockout)
Recovery = 100%
R(D) = 42.5%
9 Qu = 10,500 ps @ 25.0' Black Organic PEA1, A-8 Brown SAND and GRAVEL, A-1 medium dense 8 Qu - 14,000 psi @ 28.0' Blue to Brown Shale highly weathered End of Boring @ 30.01 Dark Brown SAND and GRAVE: 4-Run #1: 11.5'-16.5' Recovery 100% RQD = 15.8% Qu = 12,400 psi @ 13.0' Brown to Grey Shale Brown SAND, A-3 medium dense 11 Run #3: 35'-41' SMITH ENGINEERING CONSULTANTS, INC Run #2: 16.5'-21.5' Recovery 100% RQD = 70.8% Qu = 12,100 psi @ 21.0' AUDI PIRILE DANGE ENGINEER AND Dolomitic Limestone Bedrock 6 continued N-Standard Penetration Test-Blows per foot to drive 2 inch O.D. Split Spoon Sampler 12 inches with 140 lbs. hammer falling 30 inches B- Bulge Failure S- Shear Failure E- Estimated Value N-Standard Penetration Test-Blows per foot to drive 2 inch O.D. Split Spoon Sampler 12 inches N-Standard Penetration Test-Blows per foot to drive 2 inch O.D. Split Spoon Sampler 12 inches with 140 lbs. hammer falling 30 inches Qu- Unconfined Compressive Type failure: 8- Bulge Failure Qu- Unconfined Compressive Strength (tsf) W- Water Content-percentage of oven dry weight (%) Strength (tsf)
W- Water Content-percentage W- Water Content-percentage with 140 lbs. hammer falling 30 inches ILLINOIS DEPARTMENT OF TRANSPORTATION REVISIONS SOIL BORINGS VILLAGE OF CARPENTERSVILLE MAIN STREET OVER THE FOX RIVER DRAWN BY. WJH CHECKED BY: TEH







	· *	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT-
	•		CONTRACT #: 83783

GENERAL NOTES

1. A Calcium Nitrite Corrosion inhibitor as covered in the Special Provisions (Check Sheet #36) shall be used in the concrete for prestressed concrete deck beams.

----- 1283 02-00059-00-BR

- 2. Reinforcement bars shall conform to the requirements of AASHTO M 31, M 42, or M 53 Grade 60.
- 3. Expansion joint plates and attached bars shall be shop painted with the inorganic zinc rich primer.
- 4. Plan dimensions and details relative to existing structures have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

SHEET NO. S-2

S-16 SHEETS

SHEETS

51

Kane

SHEET NO.

18

- 5. Bridge Seat Sealer shall be applied to the seat area of Piers 1 and 3.
- 6. All construction joints shall be bonded.
- 7. Expansion guards which are not cast in the precast unit shall be fabricated and erected according to Article 503.10(c) of the Standard Specifications and are included in quantity of structural steel.
- 8. Expansion Joint plates and attached bars shall be AASHTO M 270 Grade 50
- 9. Expansion Joint plates and attached bars shall be shop painted with the inorganic zinc rich primer.
- 10. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- 11. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 12. The Contractor shall obtain a construction permit from the Illinois Department of Natural (IDNR), Office of Water Resources for any temporary construction activity placed in the water not shown herein.
- 13. Cover from the face of concrete to reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.
- 14. Reinforcement bending details shall be in accordance with the "Manual of Standard Practice for Detailing Reinforced Concrete Structures," ACI 315, latest edition.
- 15. Reinforcement bar splices shall be in accordance with the following table unless shown otherwise on the drawings.

Size	Basic Lap	Top Bars Lap
#4	1'-8"	2'-5"
#5	2'-2"	<i>3′-0</i> "
#6	2'-7"	3'-7"
#7	3′-5"	4'-10"
#8	4'-6"	6'-4"
#9	5′-9"	8'-1"

16. Concrete for Shared Use Path and Sidewalk on bridge shall be paid for as Concrete Superstructure.

216'-11"

Limits of Bridge

\$ E

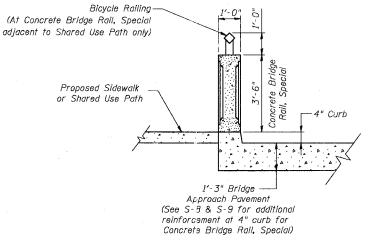
V.C. = 155'-0"

PROFILE GRADE (along PGL)

Sta. 110+97.50 723.79

110+94.46

17. Excavation behind existing abutment walls shall be done before removing the existing superstructure



TOTAL BILL OF MATERIAL

Porous Granular Backfill

Filter Fabric

Concrete Removal

Structure Excavation

Concrete Structures

Bridge Deck Grooving

Deck Beams (21" Depth)

Protective Coat

Name Plates

Pipe Drain, 6"

Bicycle Railing

Protective Shield

Bridge Seat Sealer

Epoxy Crack Sealing

Geocomposite Wall Drain

Concrete Wearing Surface, 5"

Concrete Bridge Rail, Special

Precast Prestressed Concrete

Precast Prestressed Concrete

Deck Beams (21" Depth), Special Type A

Deck Beams (21" Depth), Special Type B | Sq. Ft.

Stone Rip Rap, Class A3

Preformed Joint Seal, 2½

Concrete Superstructure

Precast Prestressed Concrete

Reinforcement Bars, Epoxy Coated

Removal of Existing Superstructures

Formed Concrete Repair (<= 5" Depth)

UNIT TOTAL

33

7.687

346

107

39

196

1,922

33

Cu. Yds. 106

Cu. Yds. 94.7 Cu. Yds. 204 Foot 96

Cu. Yds. 199.7

Sq. Yds. 618 Sq. Yds. 237

Pound 64.100

Sa. Yds. 1.141

Foot 955

Sq. Yds. 998

Sq. Ft.

Sq. Ft.

Each

Sq. Ft.

Foot

Sq. Yd.

Foot

Foot

Sq. Ft.

u. Yds. 53.6

Sq. Yds.

Sg. Yds.

L. Sum

SECT.	<u> 10</u>	N	Α	- <u>A</u>
	to			

General Plan and Elevation General Notes, Bill of Material. and Index of Sheets Retaining Wall Details

INDEX OF SHEETS

Deck Plan and Cross Section S-5. Deck Joint Details

S-6. PPC Deck Beam Details Concrete Bridge Rail, Special

Elevation and Details Concrete Bridge Rail, Special - Details

Concrete Bridge Rail, Special - Details West Abutment Plan and Elevation

West Abutment Details East Abutment Plan and Elevation

East Abutment Details S-14. Pier 1 Details

Pier 2 Details

S-1.

5-2.

Pier 3 Details

Bridge Approach Pavement (Standard 420401) Approach Concrete Bridge Rail Special **Pavement** (See sheets S-7 to S-9) Curb Bridge Approach Pavement Pay Width 28'-0" Bridge Approach Payement Width End of Bridge Deck -End of Bridge Approach Pavement 30'-0" APPROACH PAVEMENT DETAIL Not to Scale

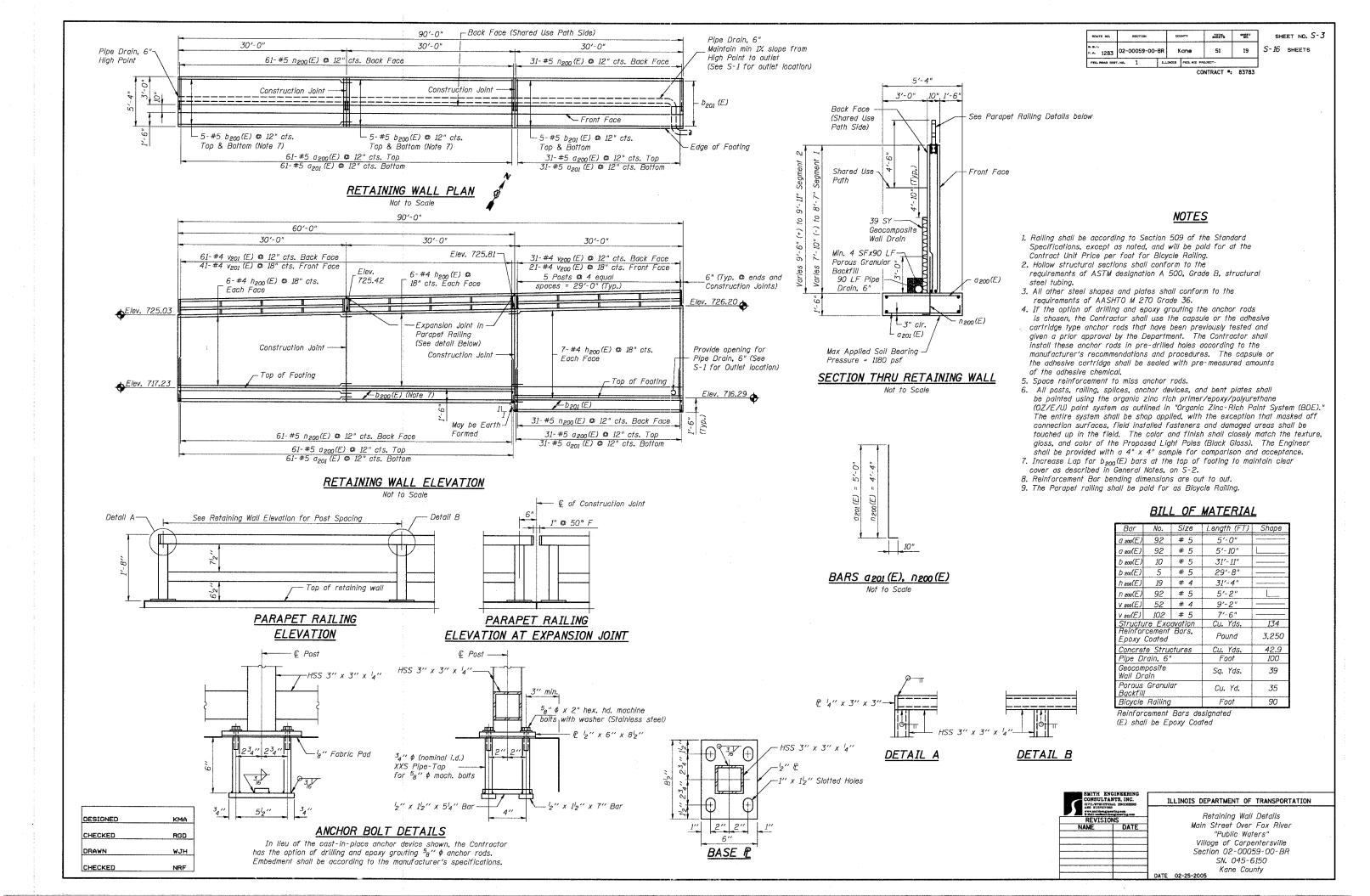
DESIGNED	KMA
CHECKED	RGD
DRAWN	WJH
CHECKED	NRF

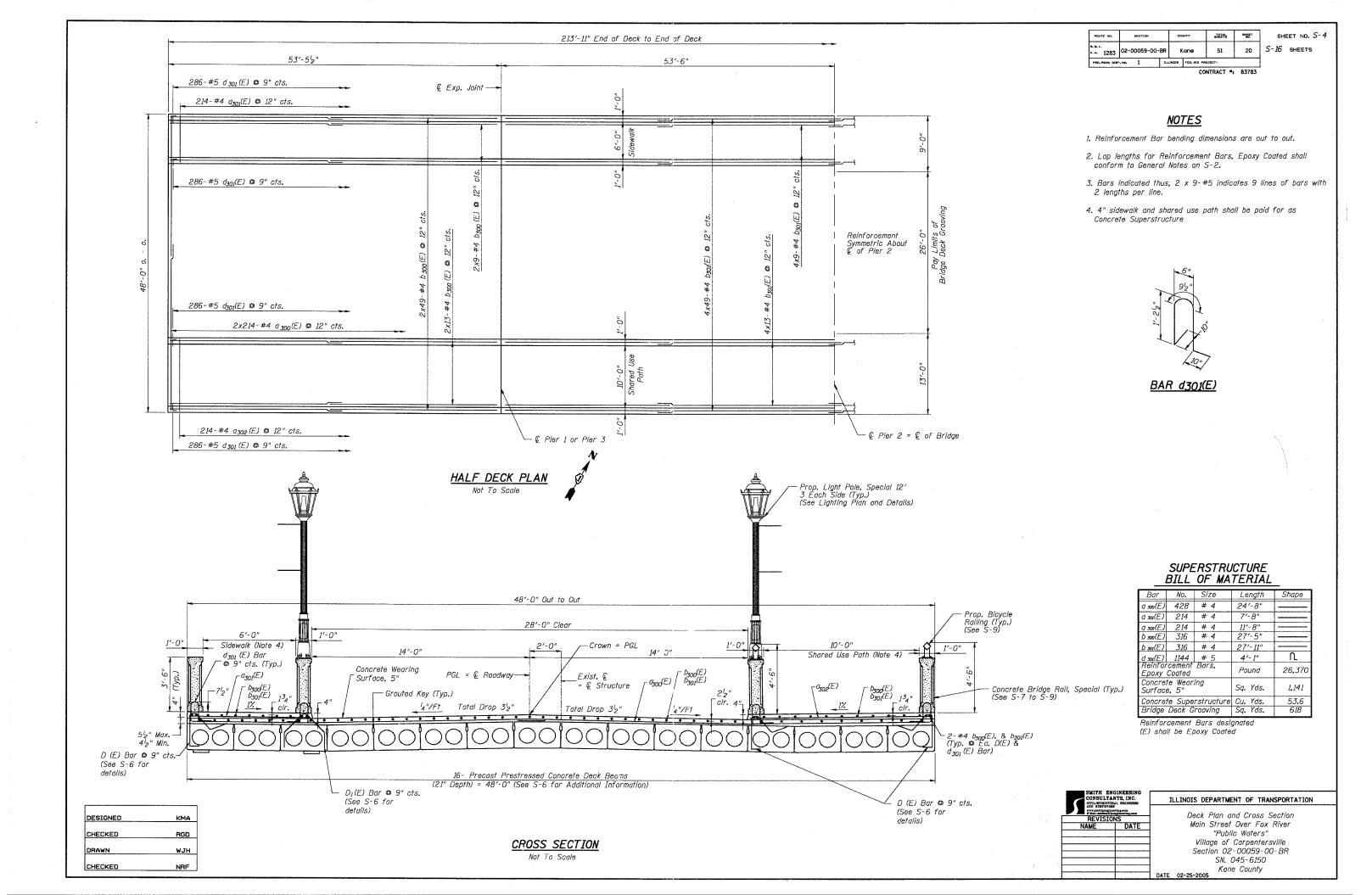
ILLINOIS DEPARTMENT OF TRANSPORTATION General Notes, Bill of Material, Main Street Over Fox River Section 02-00059-00-BR DATE 02-25-2005 Kane County

and Index of Sheets

"Public Waters" Village of Carpentersville

SN. 045-6150





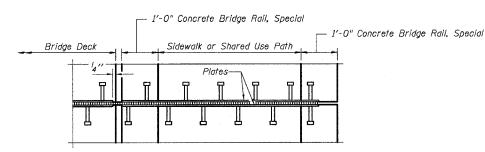
SHEET NO. S-5 S-16 SHEETS

CONTRACT *: 83783

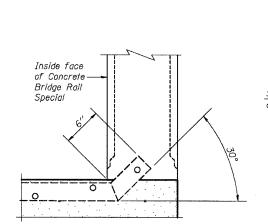


Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be 3 ₁₆". Seal space with silicone sealant suitable for structural steel.





PLAN AT SIDEWALK OR SHARED USE PATH



Bridge Joint System (Expansion)

Design

Movement

Required

Preformed

Joint Seal

Size

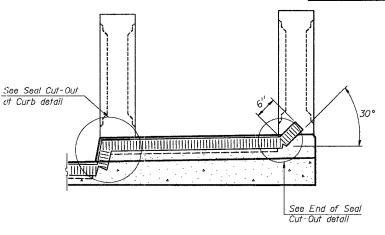
Required

Strip Seal

Rated

movement

1''



PREFORMED JOINT SEAL

- 1'-0" Concrete Bridge Rail, Special

 -1^3 4" at 50°F at rt. L's

P 34" x 434"

Preformed Jt. Seal

4" x 2" bars*

 $\frac{3}{16}$ $\frac{1}{2}$ at 6" cts. (2'4" from top of plate)

Bridge Deck

PLAN AT PARAPET

or Sidewalk

Fabricate to crown

 $^{7}_{l6}$ " ϕ holes at 1'-0" cts. for $^{3}_{8}$ " ϕ bolts. All bolts shall be

burned, sawed or chipped

off flush with the plates after forms are removed.

³₄" \$\psi x 8" granular or solid flux filled headed studs conforming

to Article 1006.32 of the Std.

Specs., automatically end welded at 1'-0" cts. (192 Required)

Cost included with

Preformed Joint Seal 2^l₂"

*Cut retainer bars in sidewalk or shared use path Cost included with Preformed Joint Seal 2½"
6" short of the sidewalk or shared use path face.

SECTION THRU EXPANSION JOINT

AT CURB, PARAPET, OR WALL (Showing plate)

AT SIDEWALK OR SHARED USE PATH
(Showing plate and seal)

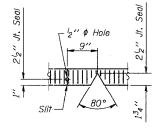
TYPICAL END TREATMENTS

BILL OF MATERIAL

Item	Unit	Total		
Preformed Joint Seal 2 ¹ 2"	Foot	96		

BRIDGE JOINT SYSTEM - EXPANSION (PREFORMED JOINT SEAL)

2" \$ Hole - 6"



SEAL CUT-OUT AT CURB

END OF SEAL CUT-OUT

DESIGNED	KMA
CHECKED	RGD
DRAWN	WJH
CHECKED	NRF

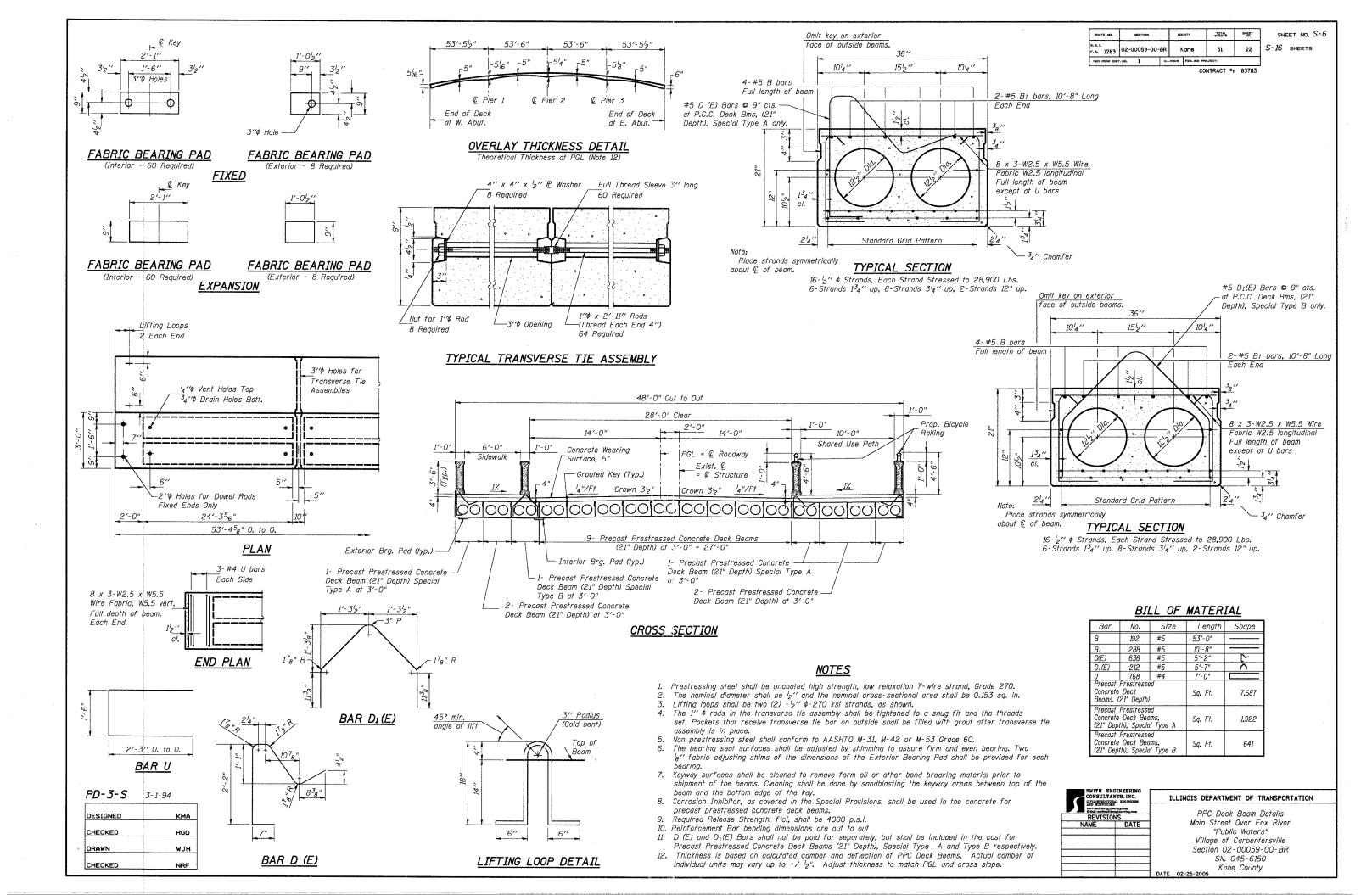
H ENGINEERING
UULTANTS, INC.

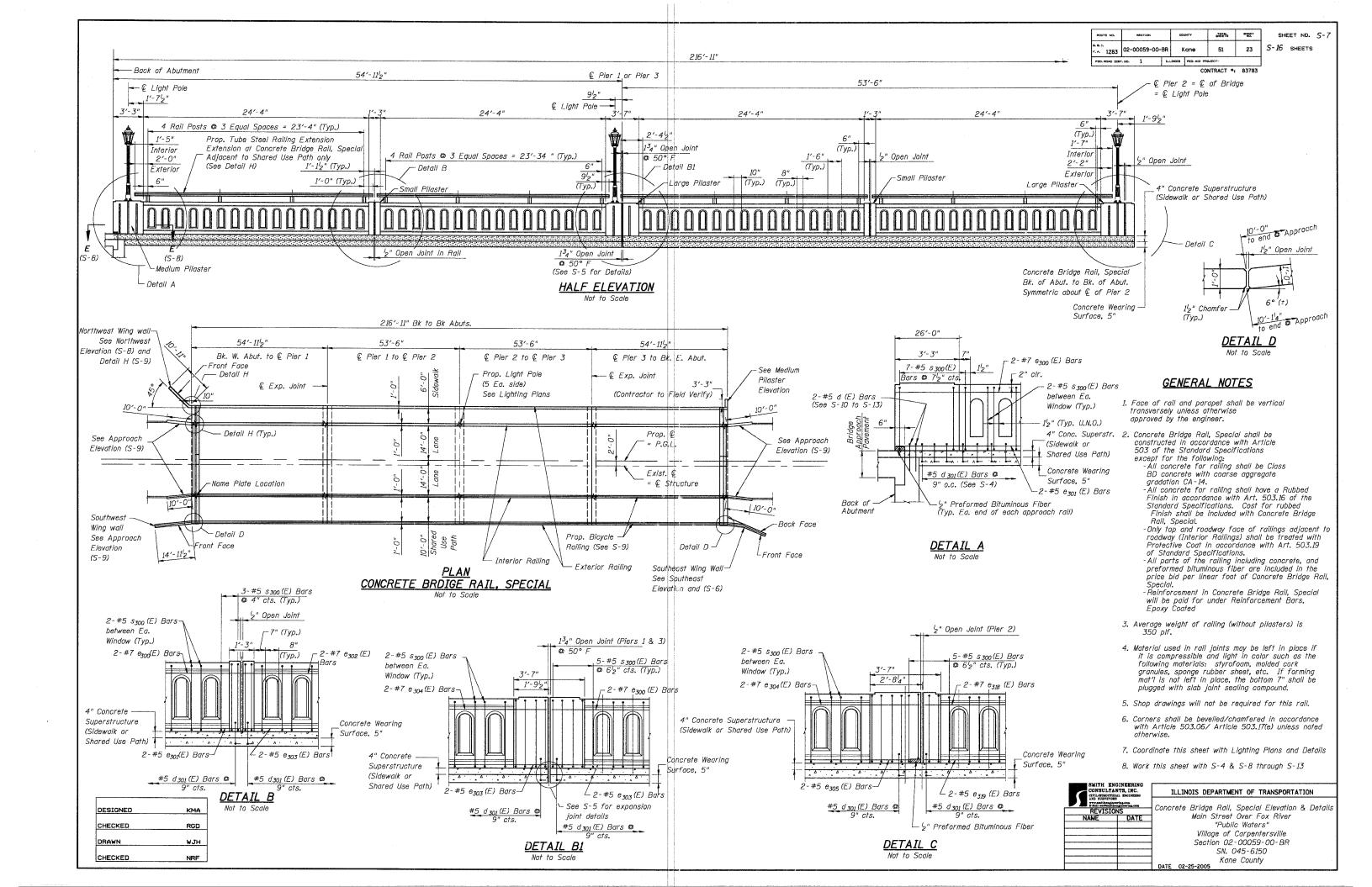
ILLINOIS DEPARTMENT OF TRANSPORTATION

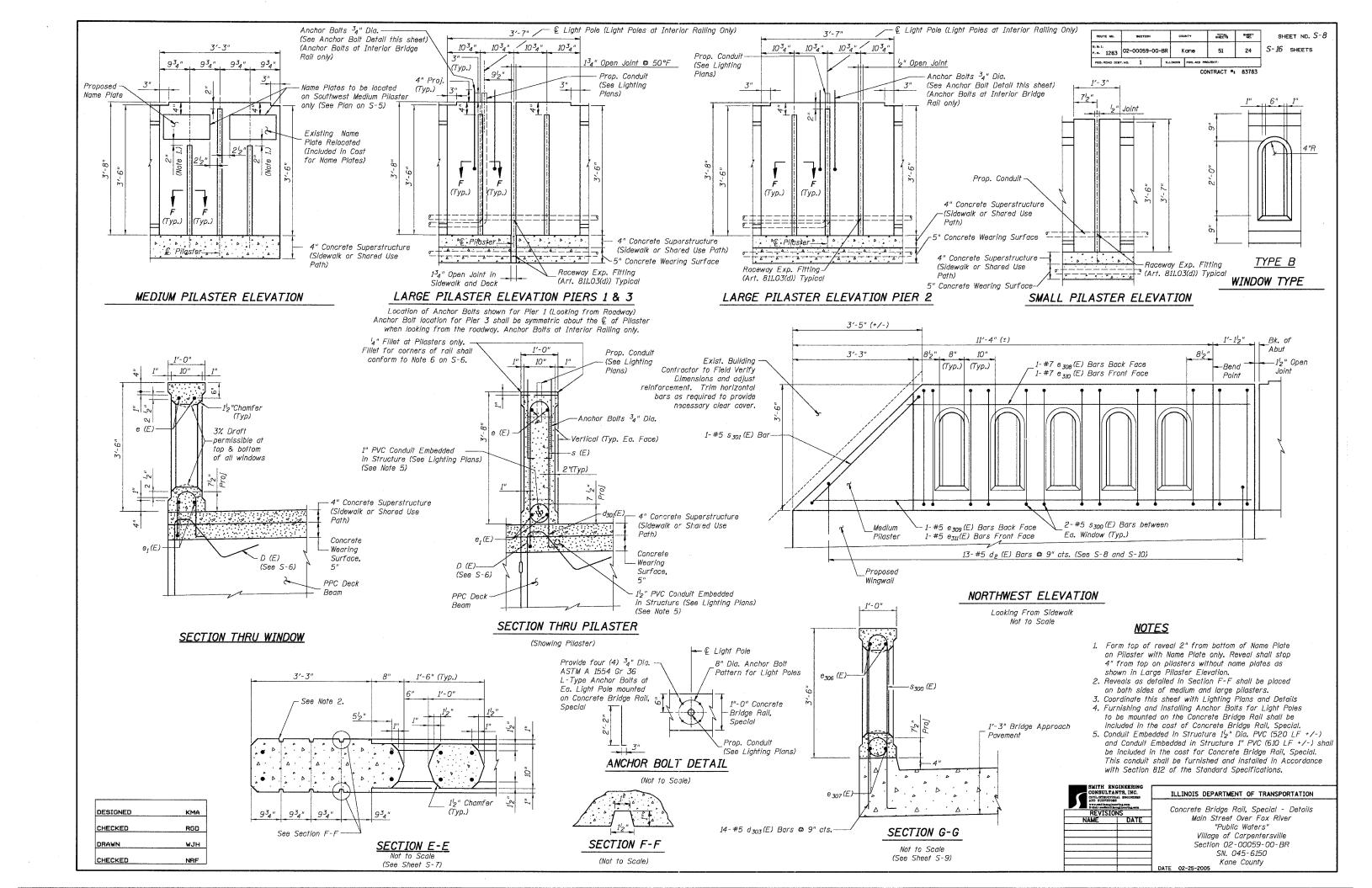
THEORY TRANSPORTATION

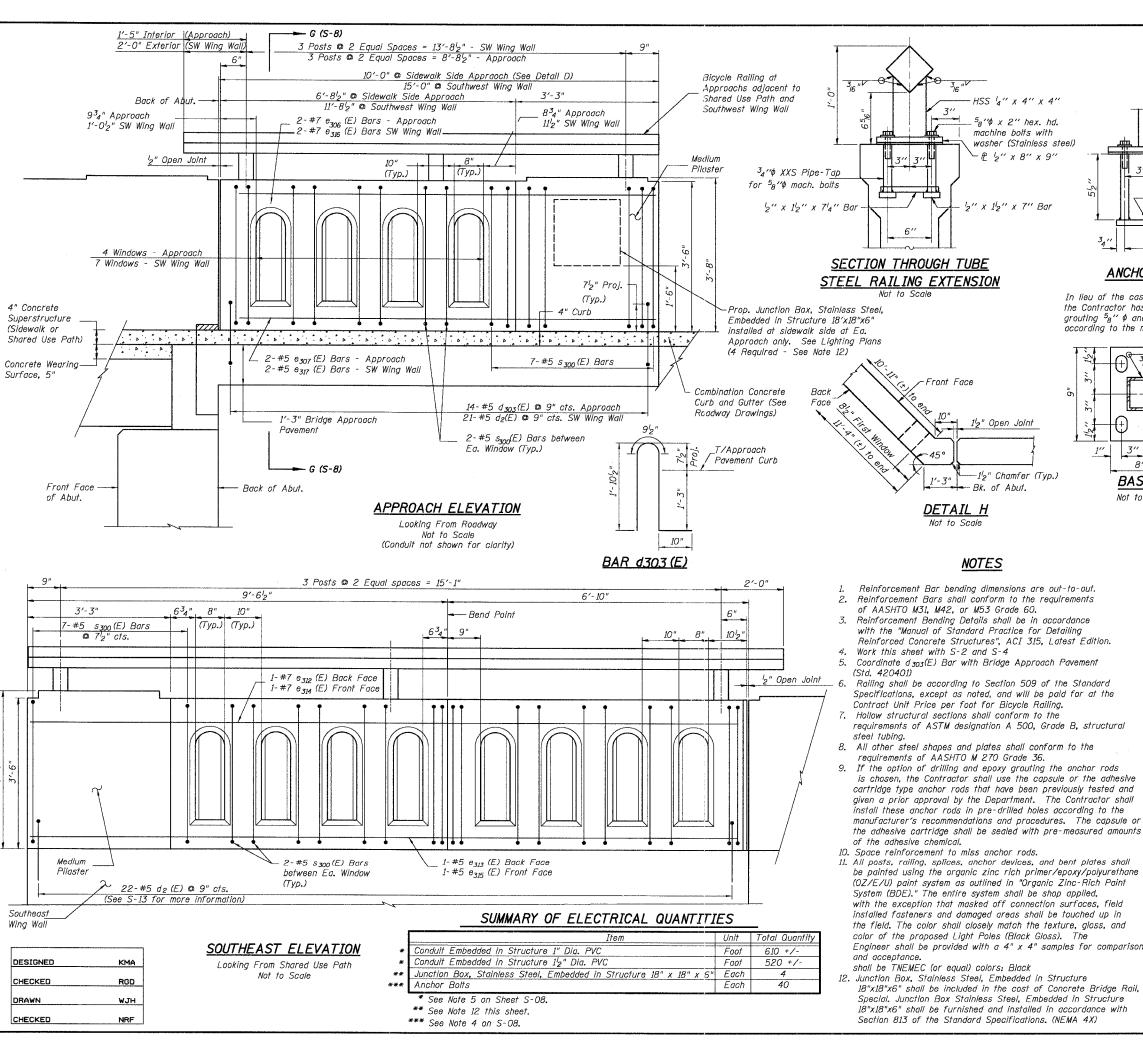
Deck Joint Details

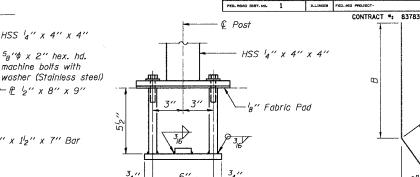
Deck Joint Details
Main Street Over Fox River
"Public Waters"
Village of Carpentersville
Section 02-00059-00-BR
SN. 045-6150
Kane County











HSS 4" x 4" x 4"

.5g"¢ x 2" hex. hd.

-P 5" x 8" x 9"

machine bolts with

3"

Front Face

-45°

1'-3"

DETAIL H Not to Scale

1/2" Open Joint

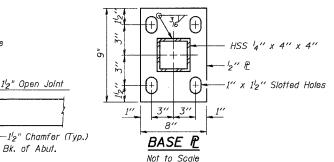
- Bk. of Abut.

NOTES

1283 02-00059-00-BR

ANCHOR BOLT DETAILS

Not to Scale In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 58" \$\phi\$ anchor rods. Embedment shall be according to the manufacturer's specifications.



BARS e 308 (E), e 309 (E), e 310 (E), e 311 (E), e 312 (E),

TOTAL

51

Kane

SHEET NO.

25

e 313 (E), e 314 (E), e 315 (E)

SHEET NO. 5-9

S-16 SHEETS

A, B, & C DIMENSIONS

Bar	Α	В	С
e ₃₀₈ (E)	6"	10'-9"	45°
e ₃₀₉ (E)	6"	10′-9"	45°
e ₃₁₀ (E)	11"	11'-2"	45°
e ₃₁₁ (E)	11"	11'-2"	45°
e ₃₁₂ (E)	6′-9"	9'-4"	17°
ө ₃₁₃ (Е)	6′-9"	9'-4"	17°
θ ₃₁₄ (Ε)	6'-6"	9'-2"	17°
e ₃₁₅ (E)	6'-6"	9'-2"	17°

BILL OF MATERIAL Bar No. Size Length Shape

4'-11"

27′-9"

27′-9"

26'-3"

26'-3"

27'-3"

27'-3"

9'-8"

9'-8"

11'-3"

11'-3"

12'-1"

12'-1"

15'-5"

15'-5"

15'-10"

15'-10"

14'-6"

14'-6"

25'-6"

25′-6"

8'-6"

10'-10"

Pound

Foot

Sq. Yd.

Foot

18,170

955

237

485

5

7

7

7

5

7

5

7

5

7

5

7

5

7

5

7

5

7

5

8 # 5

32 # 5

56

16

G 302(E)

e 303(E)

9 304(E)

e 305(E)

e 306(E)

e 307(E)

e 308(E)

309(E)

е зю(Е)

е зи(Е)

е зіг(Е)

е зіз(Е)

9 314(E)

9 315(E)

e 316(E)

 $e_{3n}(F)$

9 318(E)

э э**л**э(Е)

Epoxy Coated

Rail, Special

Protective Coat

Bicycle Railing

oncrete Bridge

е зо:(E) 16 #5

32

8

8

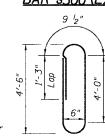
8

R

2

s 300(E) 1366 # 5

Ŧ	_(_	9 ½"	
3′-4"	1,-3"	6"	2'-10"
1	BAR &) 300	<u>) (E)</u>



BAR \$301 (E)

1	\		L
L	BAR s	300	(E)
		9 ½"	
7			$\frac{1}{2}$
	1'-3" !.ap		2
4-6	1,7		4,-0"
		6"	

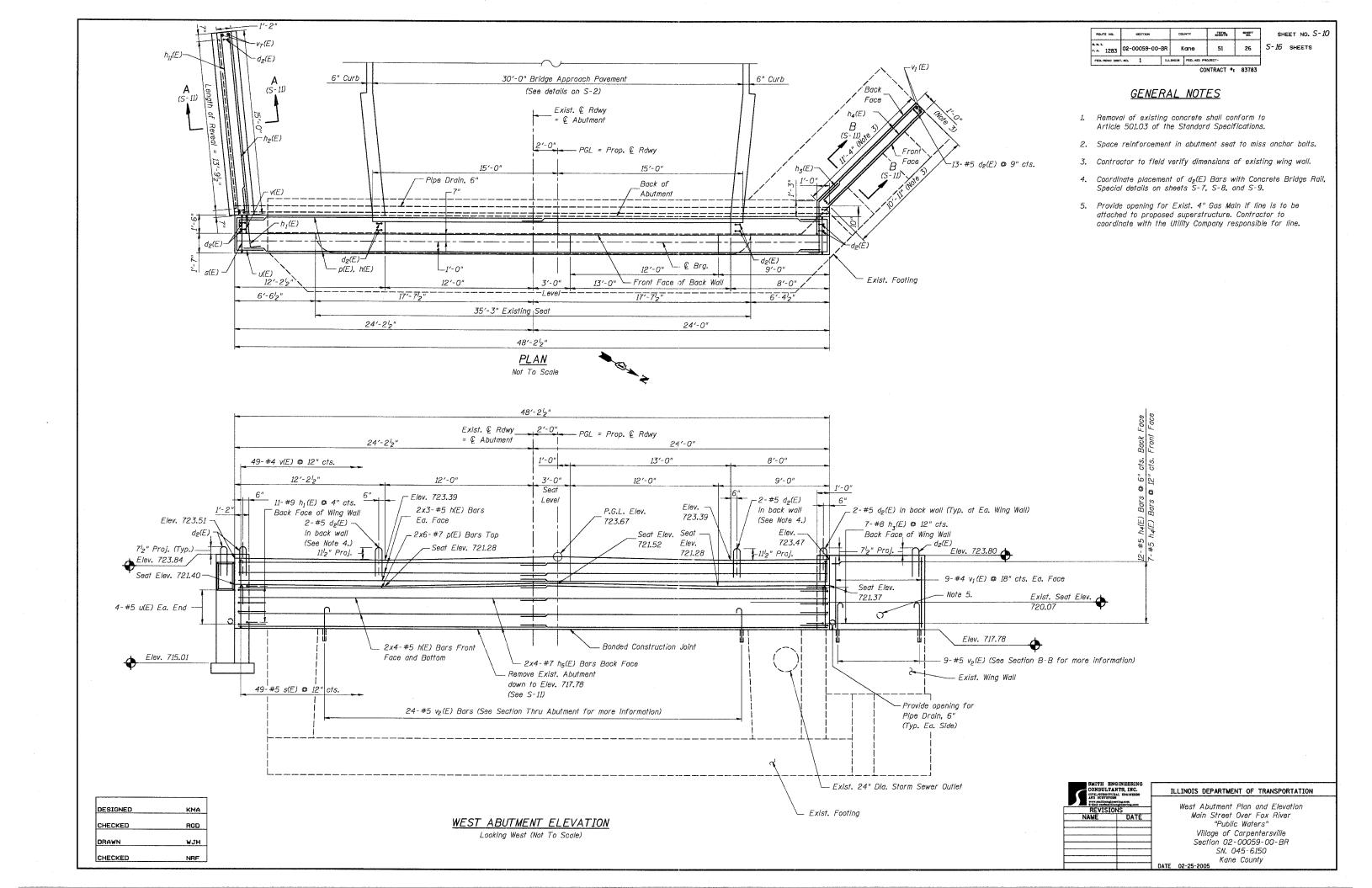
Reinforcement Bars designated (E) shall be Epoxy Coated

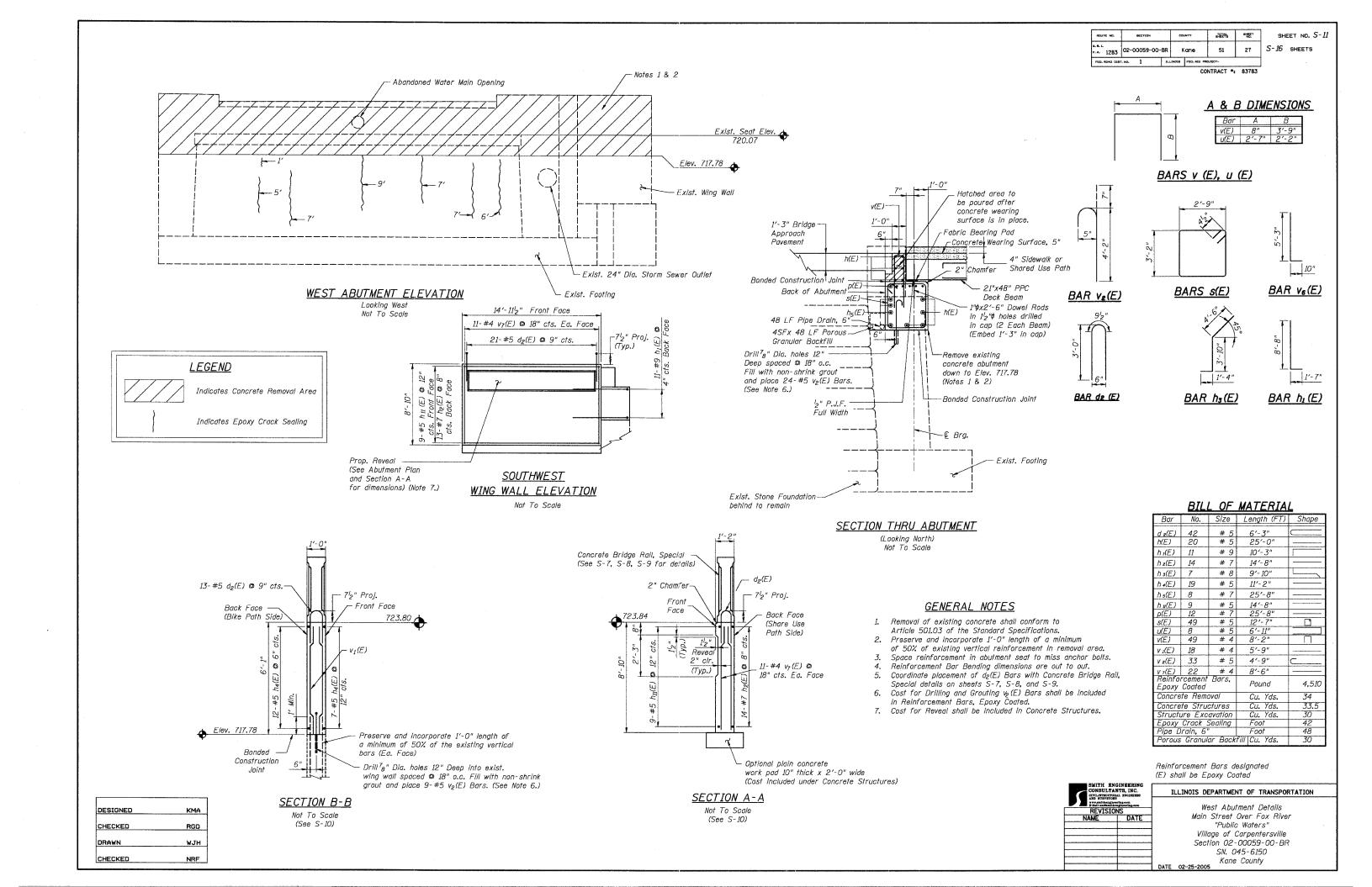
REVISIONS NAME DATE

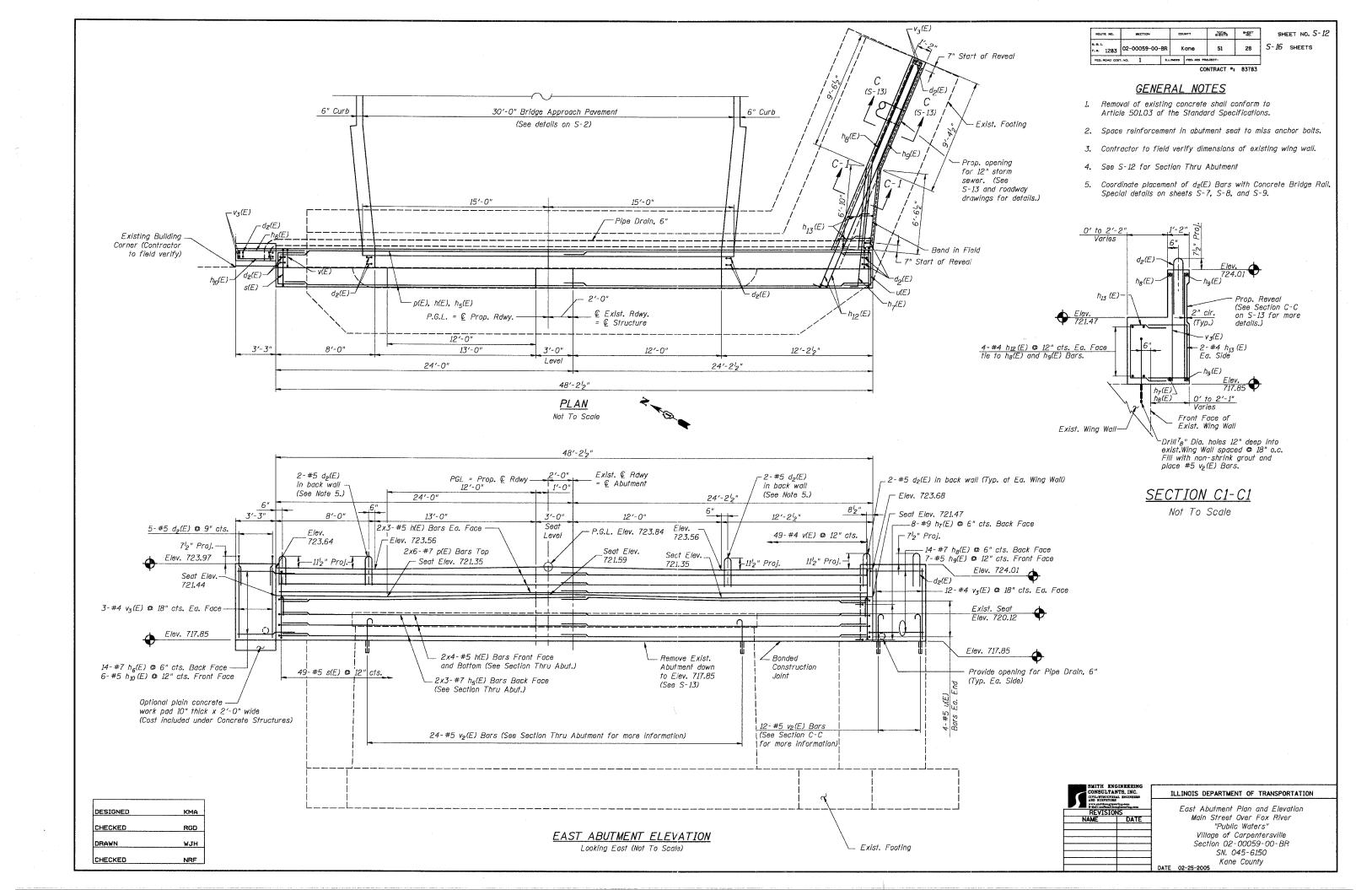
ILLINOIS DEPARTMENT OF TRANSPORTATION

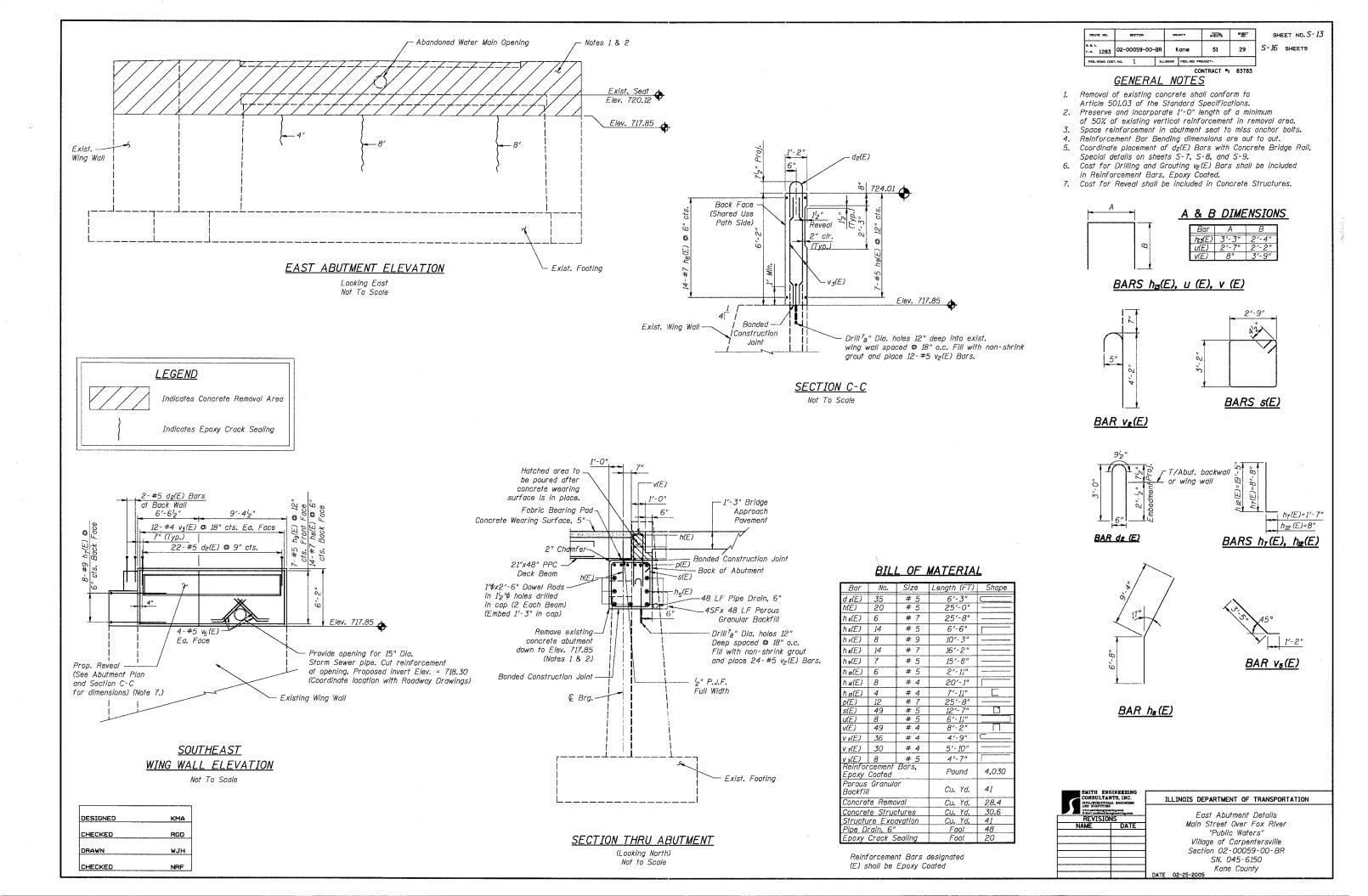
Concrete Bridge Rail, Special - Details Main Street Over Fox River "Public Waters" Village of Carpentersville Section 02-00059-00-BR SN. 045-6150 Kane County

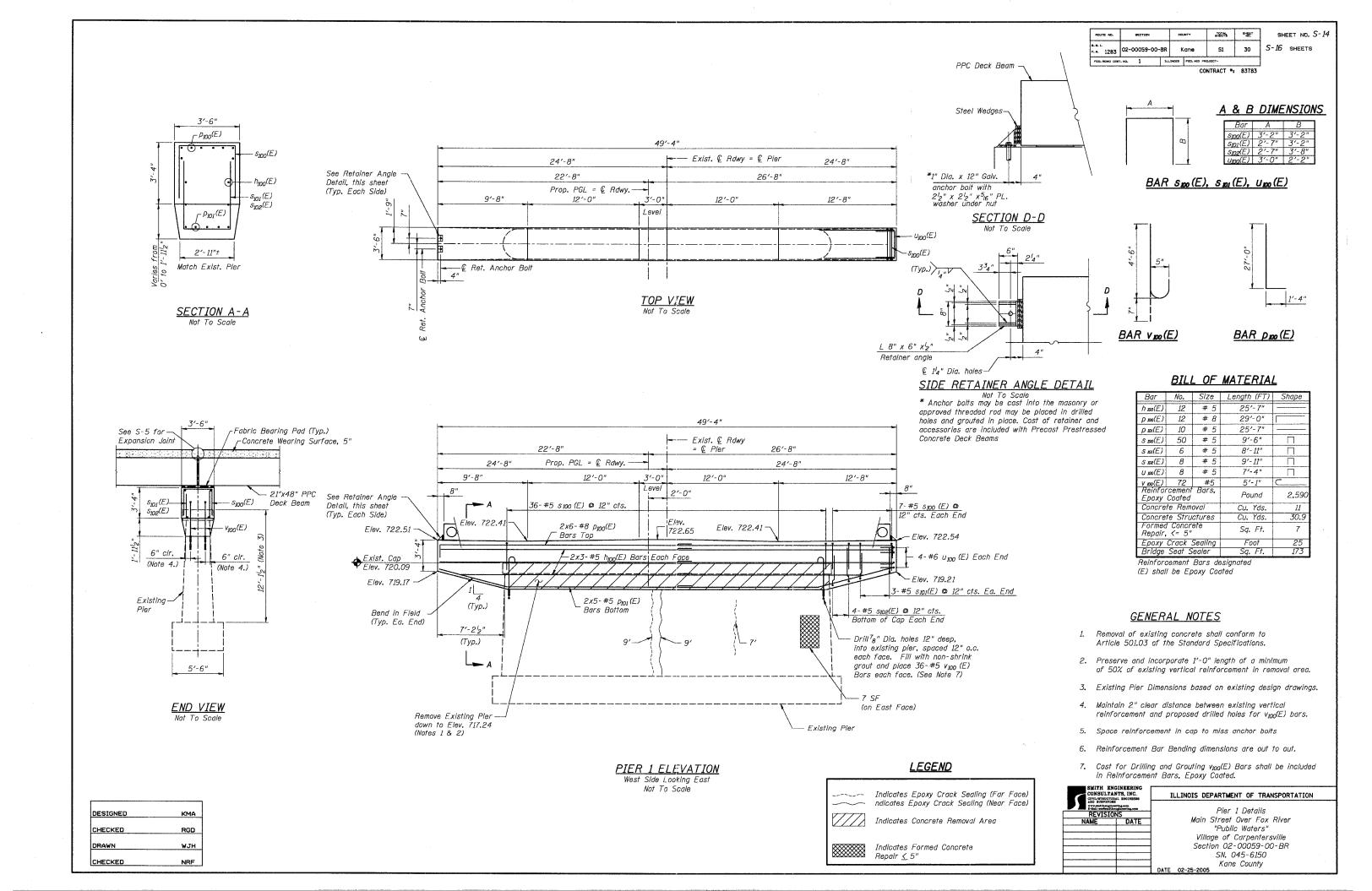
Engineer shall be provided with a 4" x 4" samples for comparison and acceptance. shall be TNEMEC (or equal) colors: Black 12. Junction Box, Stainless Steel, Embedded in Structure 18"x18"x6" shall be included in the cost of Concrete Bridge Rail, Special. Junction Box Stainless Steel, Embedded in Structure

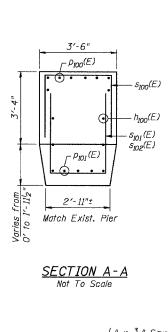


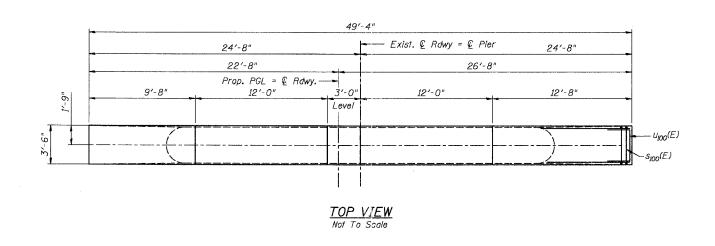


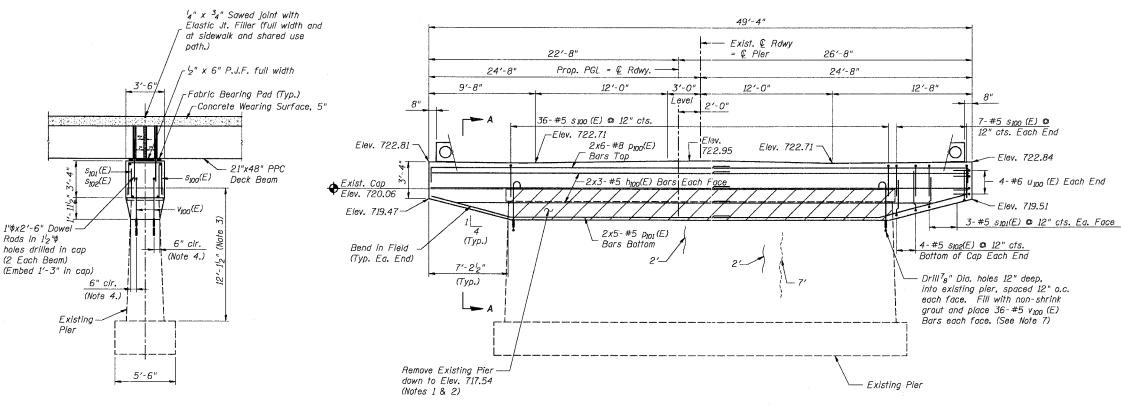












* 1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

END VIEW

Not To Scale

KMA

RGD

WJH

DESIGNED

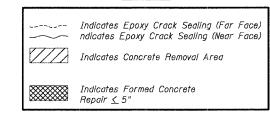
CHECKED

CHECKED

DRAWN

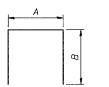
PIER 2 ELEVATION West Side Looking East Not To Scale

LEGEND



ROUTE NO.	SECTION	cor	INTY	TOTAL SHEETS	SHEET NO.	SH	EET NO. S
e. s. z. f. n. 1283	02-00059-00-8	R K	ane	51	31	S-16	SHEETS
FEO. ROAD DIS	. NO. 1	ILLINOIS	FED. AID PR	DJECT-			

CONTRACT #: 83783

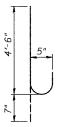


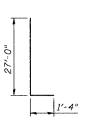
A & B DIMENSIONS

SHEET NO. 5-15

1	Bar	Α	В
ı	s100(E)	3'-2"	3'-2"
1	S101(E)	2'-7"	3'-2"
	S102(E)	2'-7"	3'-8"
1	U100(E)	3′-0"	2'-2"

BAR Spo (E), Spo (E), Upo (E)





BAR V 100 (E)

BAR pro (E)

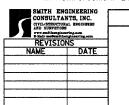
BILL OF MATERIAL

Bar	No.	Size	Length (FT)	Shape
h no(E)	12	# 5	25′-7"	
p 100(E)	12	# 8	29'-0"	
p w(E)	10	# 5	25′-7"	
S 100(E)	50	# 5	9′-6″	П
Sm(E)	6	# 5	8'-11"	П
s 102(E)	8	# 5	9'-11"	П
u 100(E)	8	# 5	7'-4"	П
V xo(E)	72	#5	5′-1"	C
Reinforcement Bars, Epoxy Coated		Pound	2,590	
Concrete Removal		Cu. Yds.	9.7	
Concrete Structures		Cu. Yds.	30.9	
Ероху С	rack Sea	ling	Foot	11

Reinforcement Bars designated (E) shall be Epoxy Coated

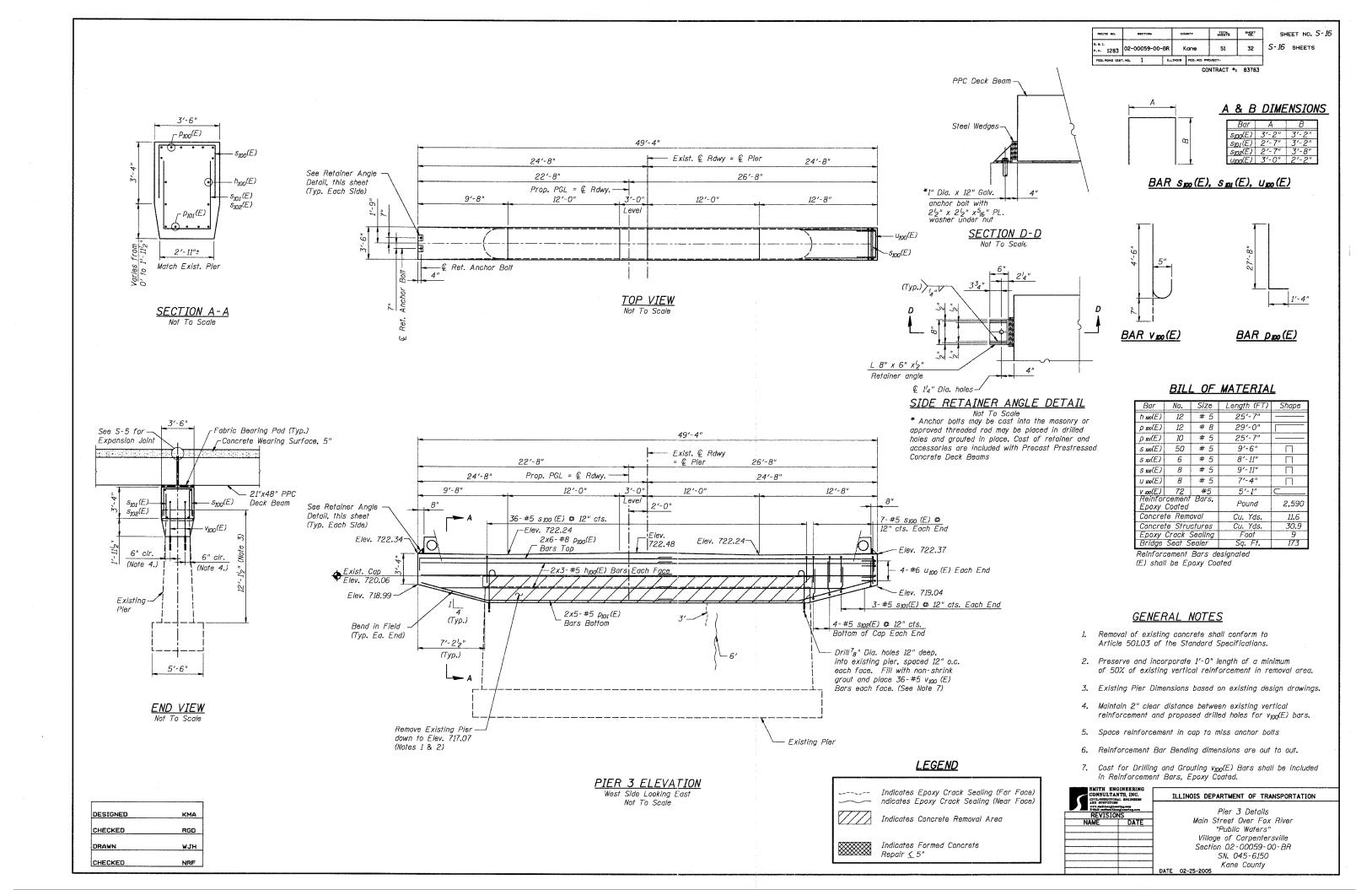
GENERAL NOTES

- 1. Removal of existing concrete shall conform to Article 501.03 of the Standard Specifications.
- 2. Preserve and incorporate 1'-0" length of a minimum of 50% of existing vertical reinforcement in removal area.
- 3. Existing Pier Dimensions based on existing design drawings.
- 4. Maintain 2" clear distance between existing vertical reinforcement and proposed drilled holes for $v_{100}(E)$ bars.
- 5. Space reinforcement in cap to miss anchor bolts
- 6. Reinforcement Bar Bending dimensions are out to out.
- 7. Cost for Drilling and Grouting $v_{100}(E)$ Bars shall be included in Reinforcement Bars, Epoxy Coated.



ILLINOIS DEPARTMENT OF TRANSPORTATION

Pier 2 Details Main Street Over Fox River "Public Waters" Village of Carpentersville Section 02-00059-00-BR SN. 045-6150 Kane County DATE 02-25-2005



BILL OF MATERIALS

80400100		UNIT	QUAN
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
80700140	GROUND ROD, 5/8 DIA. × 10 FT	EACH	62
81000700	CONDUIT IN TRENCH, 21/2" DIA., GALVANIZED STEEL	FOOT	20
81001000	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	140
81000700	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	82
81018700	CONDUIT PUSHED, 3" DIA. GALVANIZED STEEL	FOOT	322
81500200	TRENCH AND BACKFILL FOR ELECTICAL WORK	FOOT	3,500
82102100	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 100 WATT	EACH	20
82102400	DECORATIVE LANTERN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, IOO WATT	EACH	47
82500505	LIGHTING CONTROLLER, SPECIAL	EACH	1
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	342.
84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	6
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
	UNIT DUCT WITH 5-I/C NO.6 AND I/C NO.6 GROUND 600 V (XHHW-2), I/4" DIA POLYTHYLENE	FOOT	4,500
81702180	ELECTRIC CABLE IN CONDUIT 600 V(XLP TYPE USE) I/C NO. 3/0	FOOT	150
	ELECTRIC CABLE IN CONDUIT 600 V (XHHW-2), 6 I/C NO. 6	FOOT	540
	ELECTRIC CABLE IN CONDUIT 600 V (XHHW-2), 5 1/C NO. 10	FOOT	660
	DECORATIVE, LIGHT POLE, ALUMINUM, 16 FT MOUNTING HEIGHT, FLUTED SHAFT AND 2 PIECE BOLT ON DECORATIVE BASE	EACH	37
	DECORATIVE, LIGHT POLE, ALUMINUM, 10 FT FLUTED SHAFT AND 2 PIECE BOLT ON DECORATIVE BASE	EACH	10
	LIGHT POLE, ALUMINUM, 25 FT MOUNTING HEIGHT, 6 FT MAST ARM	EACH	20

THE FOLLOWING LISTED ITEMS ARE EMBEDDED IN BRIDGE STRUCTURE:

- d. ANCHOR BOLTS IN CONCRETE BRIDGE RAIL FOR LIGHTING UNIT FOUNDATION.
 b. JUNCTION BOX WITH COVER STAINLESS STEEL, ELECTRIC PANEL WITH
 DISTRIBUTION BLOCKS AND FUSE.
- c. 11/2" DIA PVC CONDUIT (SCHEDULE 40) d. 1" DIA PVC CONDUIT (SCHEDULE 40)

IN A BRIDGE STRUCTURAL JOINTS, EXPANSION FITTINGS SHALL BE INSTALLED. FOR ALL ELECTRICAL RACEWAY RUNS.

COST OF FURNISHING AND INSTALLATION THESE MATERIAL SHALL BE INCLUDED WITH BRIDGE STRUCTURE MATERIALS AND WILL NOT BE PAID SEPERATELY.

GENERAL NOTES

- WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL FOR ELECTRICAL WORK.
- 2. IT SHALL BE THE CONTRACTOR,S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE EXACT LOCATIONS OF ALL OTHER ROADWAY LIGHTING ITEMS, INCLUDING THE LIGHTING CONTROLLER(S), SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- 3. THE RESPONSIBILITY FOR COORDINATING FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL BE REMAIN WITH THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER APPROVAL, WITHIN 30 DAYS AFTER CONTRACT EXECUTION, EIGHT (8) COPIES OF APPROVABLE MANUFACTURER'S PRODUCT DATA AND DETAIL SHOP DRAWINGS TO THE ATTENTION OF SMITH ENGINEERING, 4500 PRIME PARKWAY MCHENRY, IL 60050, Ph. 815-385-1778 THE FOLLOWING:
- d. TRENCH: ELECTRICAL WARNING TAPE
 b. FOUNDATION: CLASS "SI" CONCRETE, REINFORCEMENT, RACEWAYS.
 ANCHOR BOLTS WITH NUTS & WASHERS.
 c. CONDUIT: CONDUIT AND CONDUIT FITTINGS.
- d. GROUND ROD: GROUND ROD, COPPER WIRE, EXOTHERMIC WELD.
 e. UNIT DUCT/CABLES: UNIT DUCT, CABLES
 f. ELECTRIC CABLES: ELECTRIC CABLES
 g. LIGHT POLE/ARM: POLE DETAILS, SHOP DRAWING, & WIND
- LOAD CALCULATIONS, POLE WIRE
 h. LUMINAIRE: ROADWAY LUMINAIRE WITH BALLAST ASSEMBLY.
- I. ELECTRICAL ITEMS: ELECTRIC TAPES, QUICK DISCONNECT WITH FUSE, LAMPS.
 J. LIGHTING CONTROLLER: CIRCUITRY DETAIL, CATALOG ON MATERIALS, PAINT. k. JUNCTION BOX: CATALOG CUTS.
- 5. UNIT DUCT SHALL BE 11/4" DIA. DUCT WITH 5-1/c NO.6 (BLACK-RED, BLUE-ORANGE, WHITE) 1/c NO.6 (GREEN) GROUND SOLID COLOR CODED INSULATED CONDUCTOR.
- 6. THE CONTRACTOR SHALL SUBMIT FOUR (4) SET FULL SIZED COMPLETE, NEAT AND ACCURATE "RECORD DRAWINGS" PLAN SETS TO THE ENGINEER FOR REVIEW AND COMMENT, AS SPECIFIED. THE "RECORD DRAWINGS" SHALL BE UPDATED ON REGULAR BASIS AND DEPICT ALL ROADWAY LIGHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.
- 7. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (1-800-892-0123) TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL GIVE IN WRITING TO THE ENGINEER FOR REVIEW, CONSTRUCTION STAGING FOR THE PROPOSED ROADWAY LIGHTING WORK, AND THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER.
- 9. THE LIGHT POLE SETBACK SHALL BE 6^\prime FROM THE BACK OF CURB TO THE FACE OF FOUNDATION.
- 10. RESTORATION OF PARKWAY AND PROJECT SITE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- 11. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
- 12. THE PROPOSED TRENCH SHALL BE 36 INCH BELOW FINISHED GRADE
- 13. BALLAST LOSSES SHALL NOT EXCEED 37% FOR A 100 WATT HPS, 55V LAMP LUMINAIRE.

SYMBOLS

- LIGHT POLE, ALUMINUM, 25 FT MOUNTING HEIGHT, 6 FT MAST ARM, 111/2" DIA BOLT CIRCLE, LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 100 WATT CLEAR LAMP, 240 VOLT BALLAST,
- DECORATIVE, LIGHT POLE, ALUMINUM, 16FT MOUNTING HEIGHT, 12/2" DIA BOLT CIRCLE, 2 PIECE BOLT ON DECORATIVE CAST ALUMINUM BASE, WITH BANNER ARMS AND FESTOON GFCI OUTLET, DECORATIVE LANTERN STYLE LUMINAIRE TENON MOUNT. 100 WATT CLEAR LAMP, 240 VOLT BALLAST CWA.
- DECORATIVE LIGHT POLE, ALUMINUM, MOUNTED ON BRIDGE CONCRETE RAIL, 16 FT MOUNTING HEIGHT, 6¾" DIA BOLT CIRCLE, 2 PIECE BOLT ON DECORATIVE CAST ALUMINUM BASE, WITH BANNER ARMS AND FESTOON GFCI OUTLET, DECORATIVE LANTERN STYLE LUMINAIRE - TENON MOUNT, 100 WATT CLEAR LAMP, 240 VOLT BALLAST CWA

-STATION NUMBER (TYP) STA 19+42 A13-F17 -NUMBER OF LOAD ON CIRCUIT BREAKER -FESTOON CIRCUIT BREAKER DESIGNATION

POLE NUMBER (TYP) -LIGHTING CIRCUIT BREAKER DESIGNATION

EXISTING LIGHTING POLE TO BE REMOVED, FROM BRIDGE RAIL UTILITY SERVICE POLE. MOUNTED TRANSFORMER

EXISITNG LIGHTING CONTROLLER, TO BE REMOVED

GROUND ROD, 5/8" DIA. × 10 FT

CONDUIT IN TRENCH (T) CONDUIT, PUSHED (P) RIGID GALVANIZED STEEL (RGSC) CONDUIT DIA. x LENGTH

ELECTRIC CABLE IN UNIT DUCT, NUMBER OF CONDUCTORS AND DIAMETER OF CONDUIT AS SHOWN IN DETAILS

UNIT DUCT WITH 5-1/C NO. 6 AND 1-1/C NO.6 GROUND, 600 V (XHHW-2), 11/4" POLYETHYLENE

LIGHTING CONTROLLER, SPECIAL

JUNCTION BOX STAINLESS STEEL EMBEDDED IN STRUCTURE JB

CONDUITS EMBEDDED IN STRUCTURE

NOTE:

THE MATERIALS AND WORK FOR THIS PROJECT SHALL CONFORM TO THE LATEST APPLICABLE STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ISSUED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. SPECIAL PROVISIONS CHECK LIST IS ATTACHED WITH THIS PROJECT.



PROJECT DRAWINGS #E-1 TO #E-12 ARE PREPARED BY SUNJOY INC. REVISION 02-26-05

Sunjoy Inc. Area Lighting 212 TIMBERCREST DRIVE

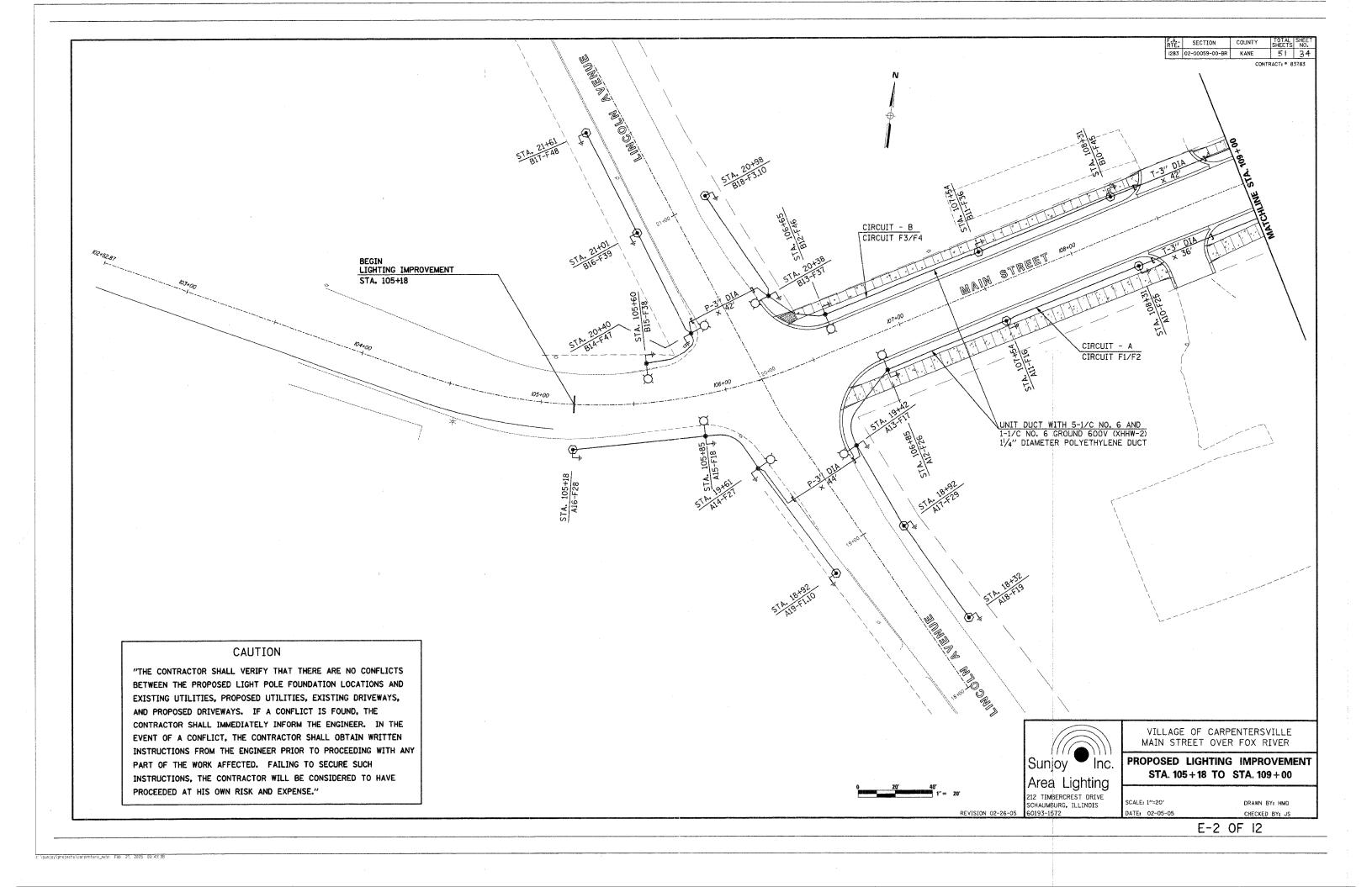
SCHAUMBURG, ILLINOIS

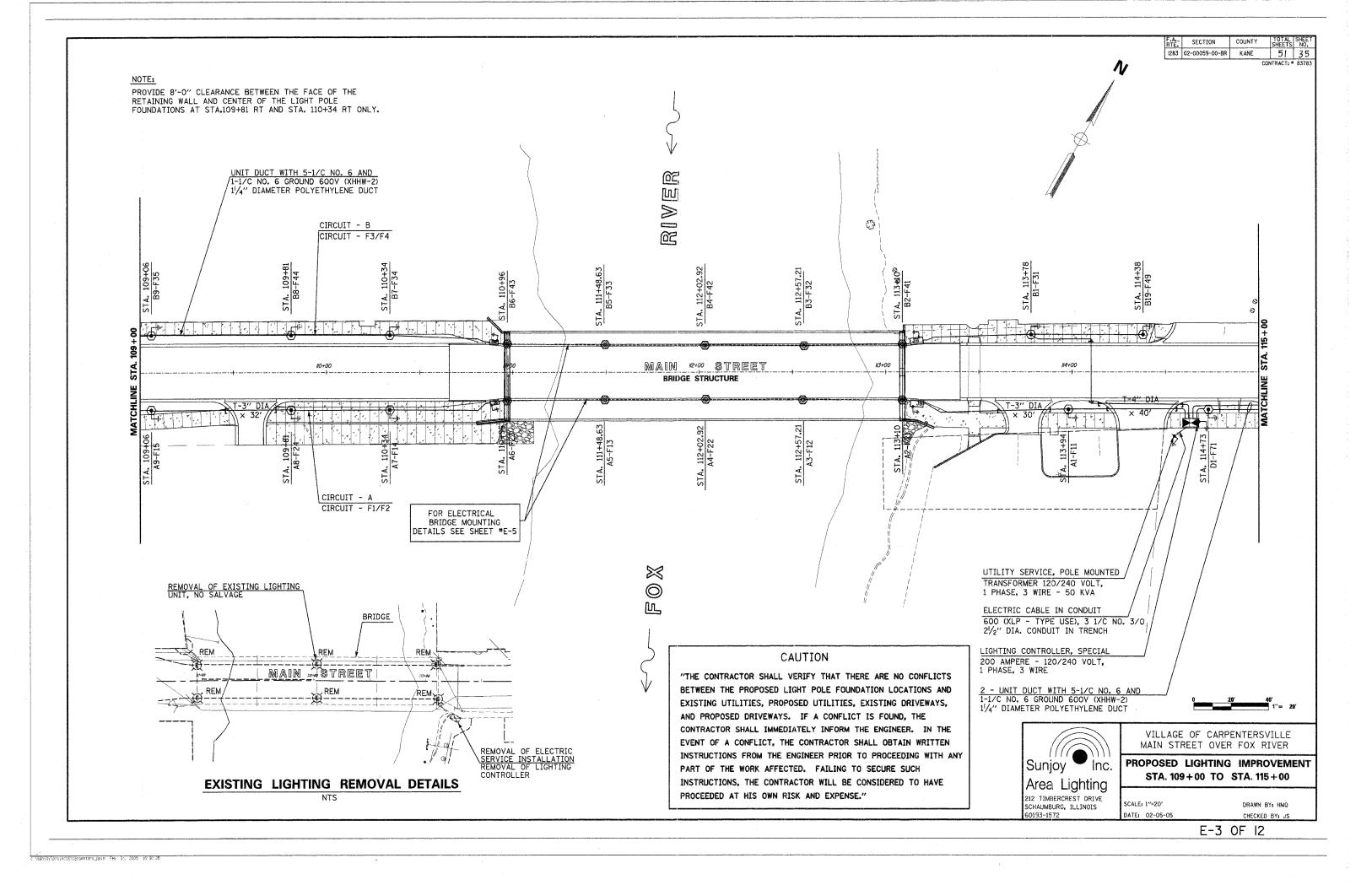
VILLAGE OF CARPENTERSVILLE MAIN STREET OVER FOX RIVER

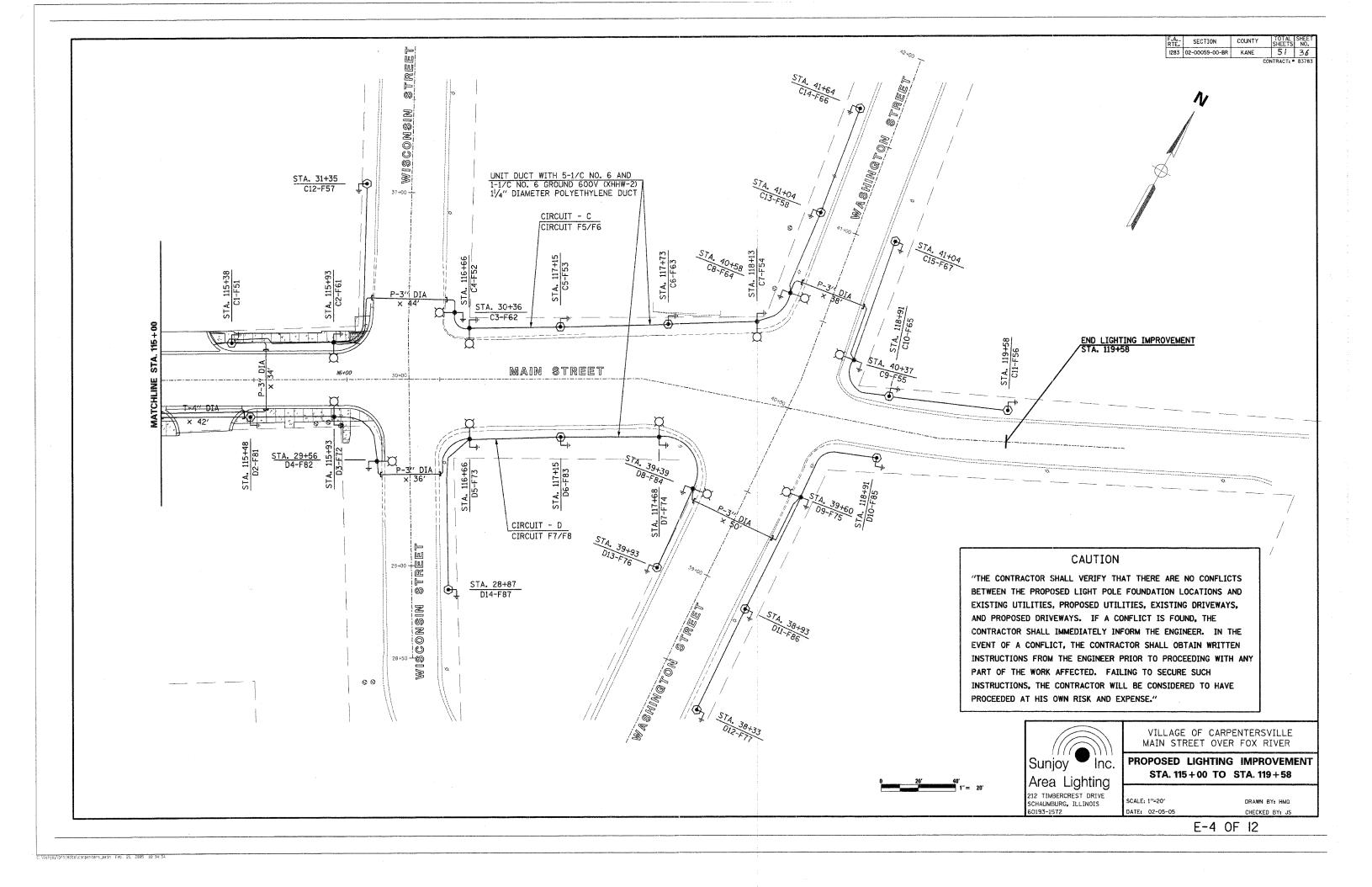
BILL OF MATERIALS, SYMBOLS & GENERAL NOTES

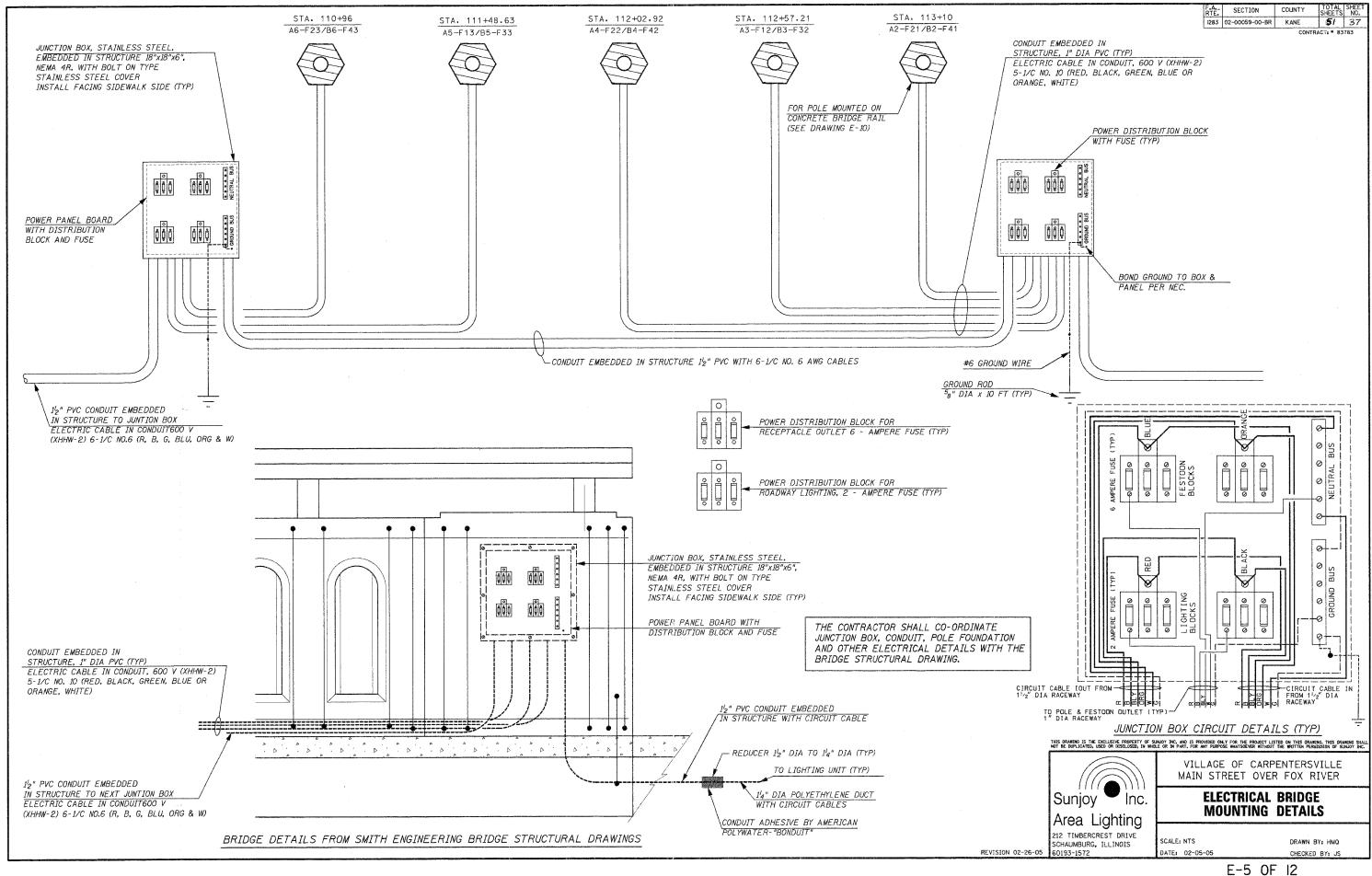
SCALE: NTS DRAWN BY: HMQ DATE: 02-05-05 CHECKED BY: JS

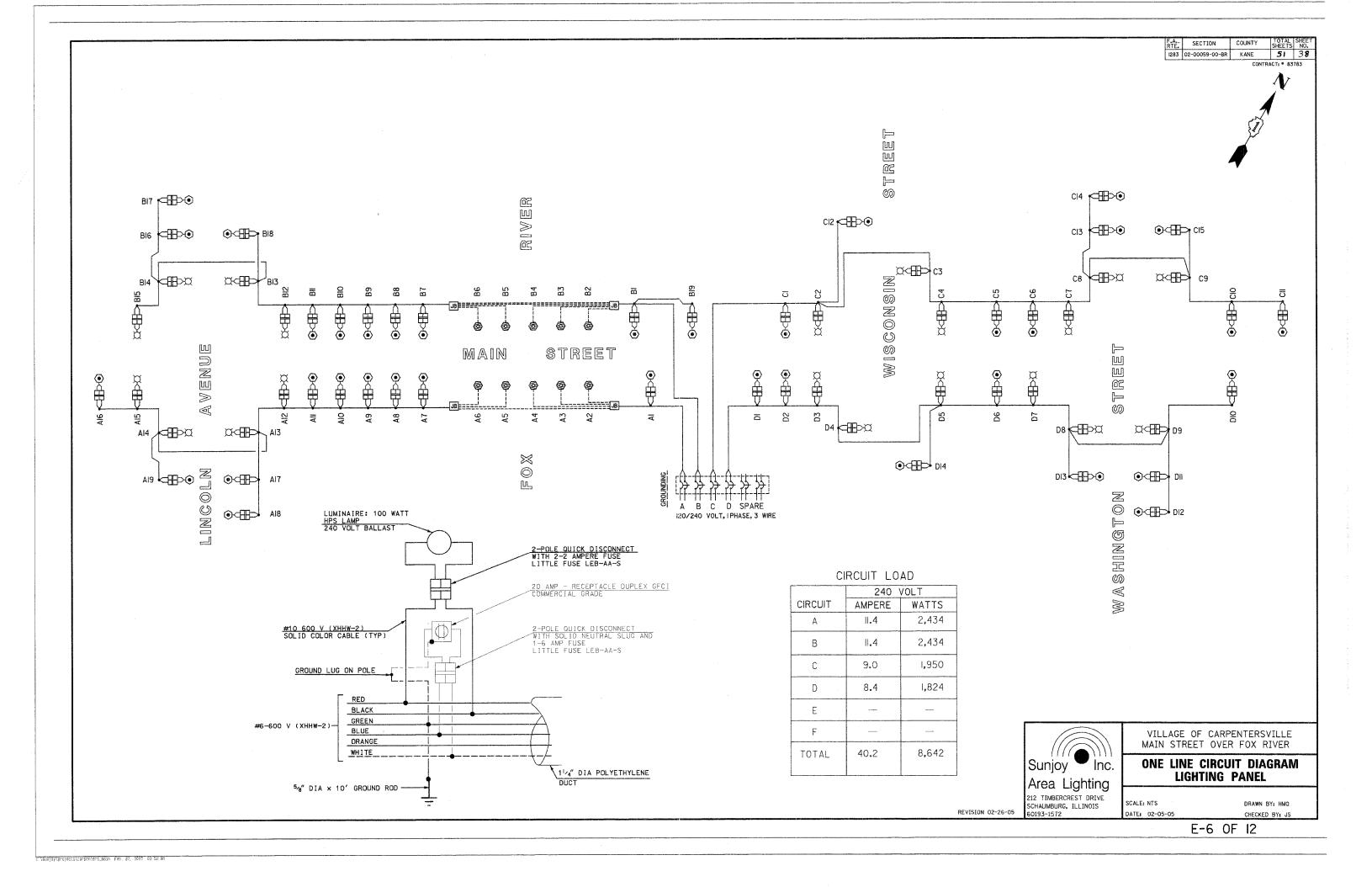
E-I OF 12

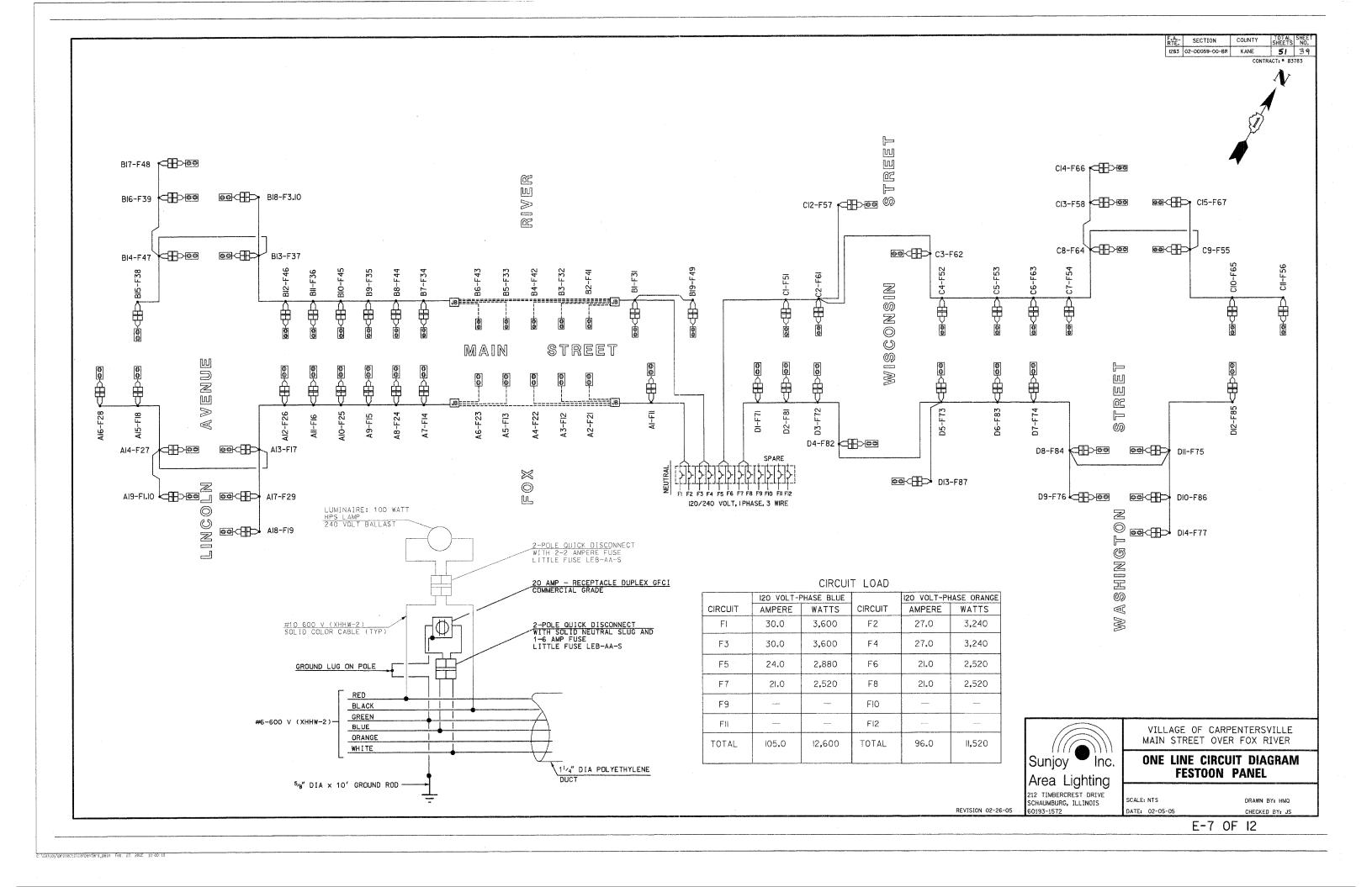


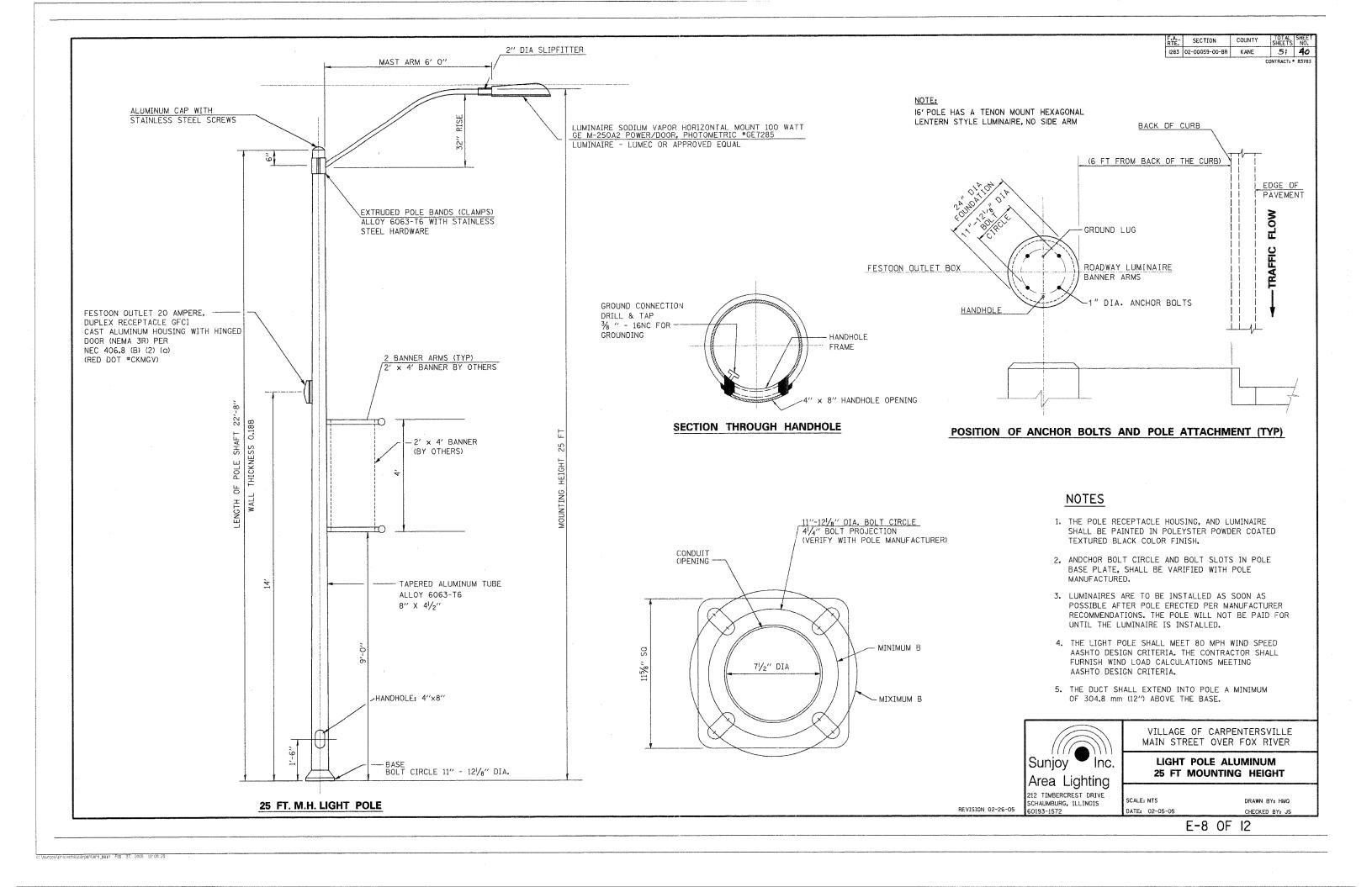


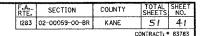


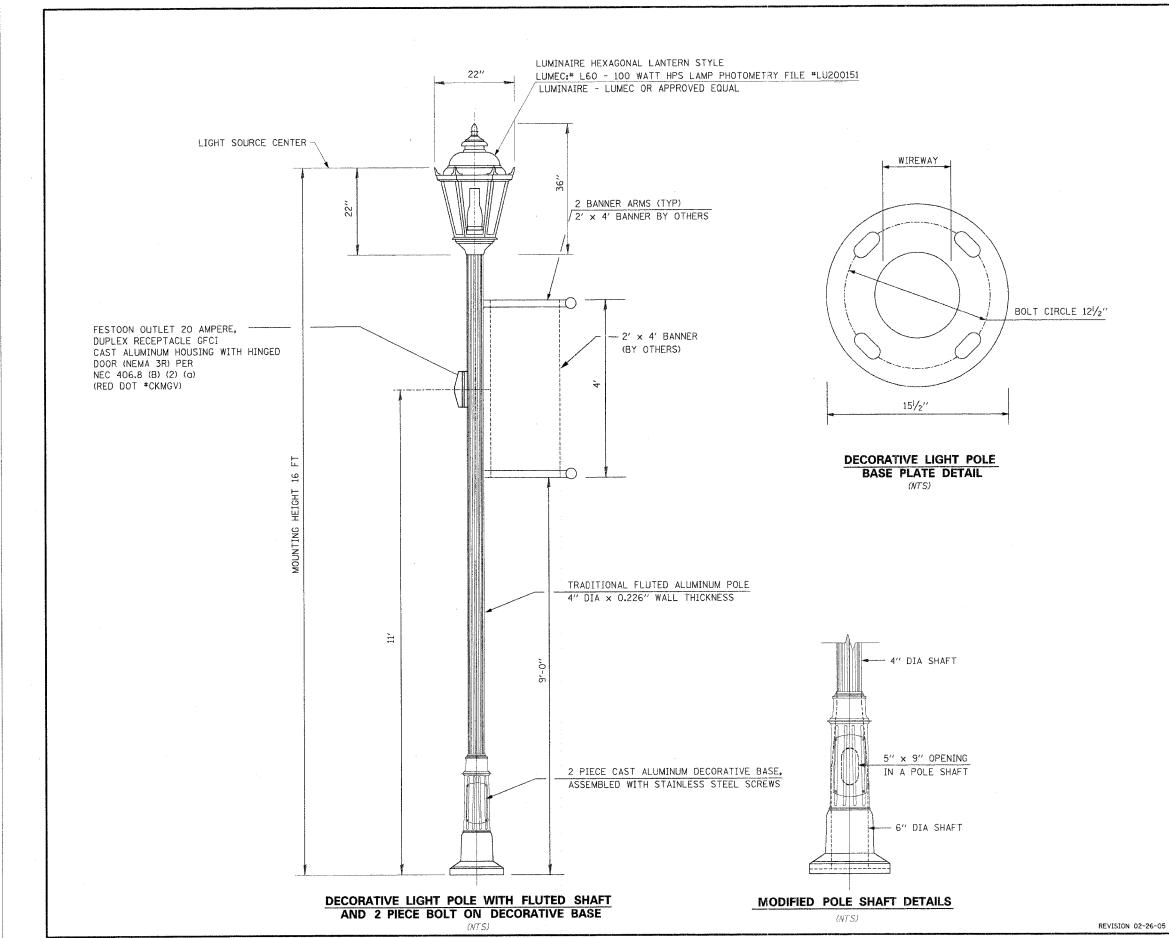












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NOTES

- 1. THE POLE RECEPTACLE HOUSING, AND LUMINAIRE SHALL BE PAINTED IN POLEYSTER POWDER COATED TEXTURED BLACK COLOR FINISH.
- ANDCHOR BOLT CIRCLE AND BOLT SLOTS IN POLE BASE PLATE, SHALL BE VARIFIED WITH POLE MANUFACTURED.
- 3. LUMINAIRES ARE TO BE INSTALLED AS SOON AS POSSIBLE AFTER POLE ERECTED PER MANUFACTURER RECOMMENDATIONS. THE POLE WILL NOT BE PAID FOR UNTIL THE LUMINAIRE IS INSTALLED.
- 4. THE LIGHT POLE SHALL MEET 80 MPH WIND SPEED AASHTO DESIGN CRITERIA. THE CONTRACTOR SHALL FURNISH WIND LOAD CALCULATIONS MEETING AASHTO DESIGN CRITERIA.
- 5. THE DUCT SHALL EXTEND INTO POLE A MINIMUM OF 304.8 mm (12") ABOVE THE BASE.



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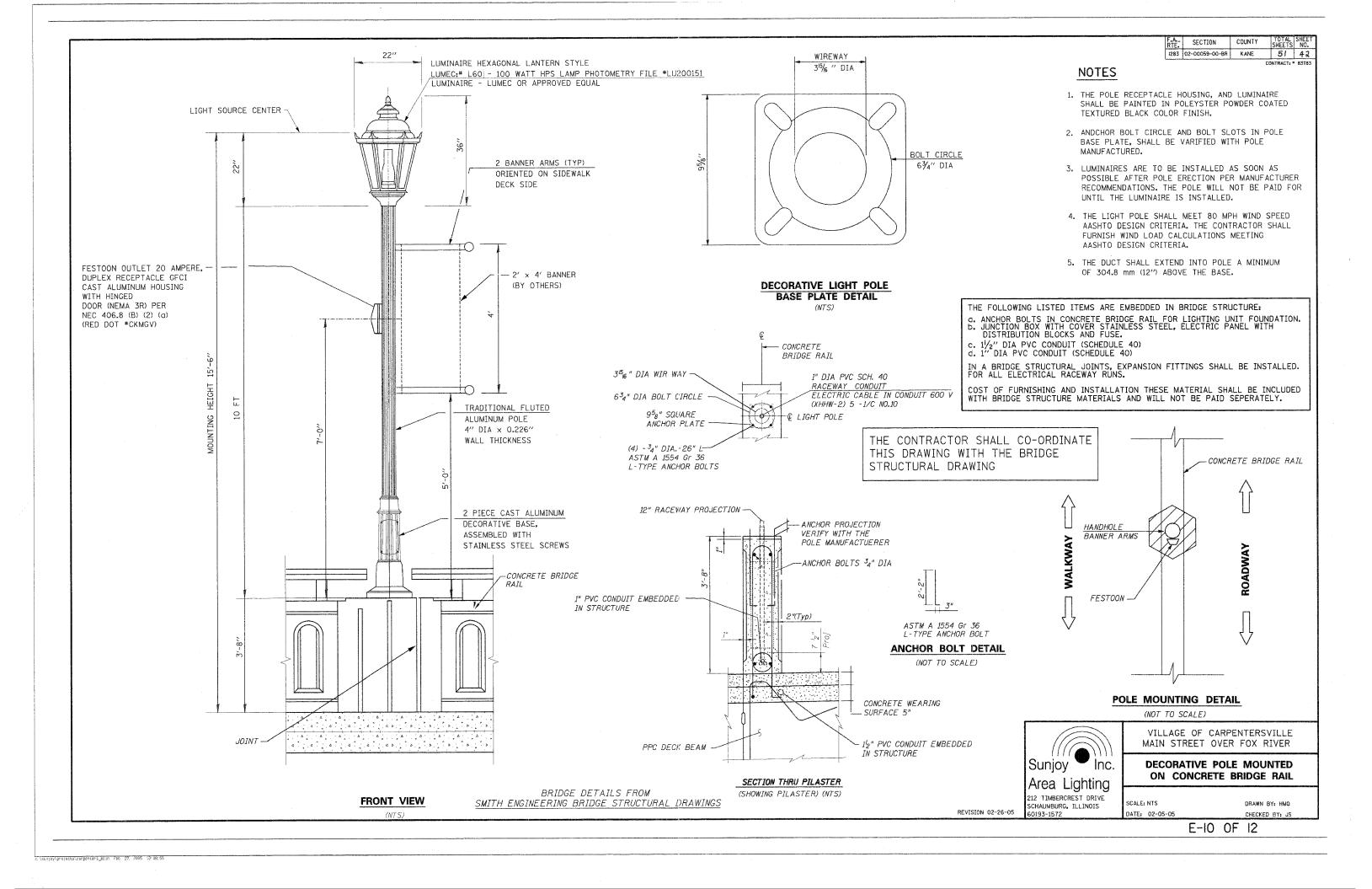
VILLAGE OF CARPENTERSVILLE
MAIN STREET OVER FOX RIVER

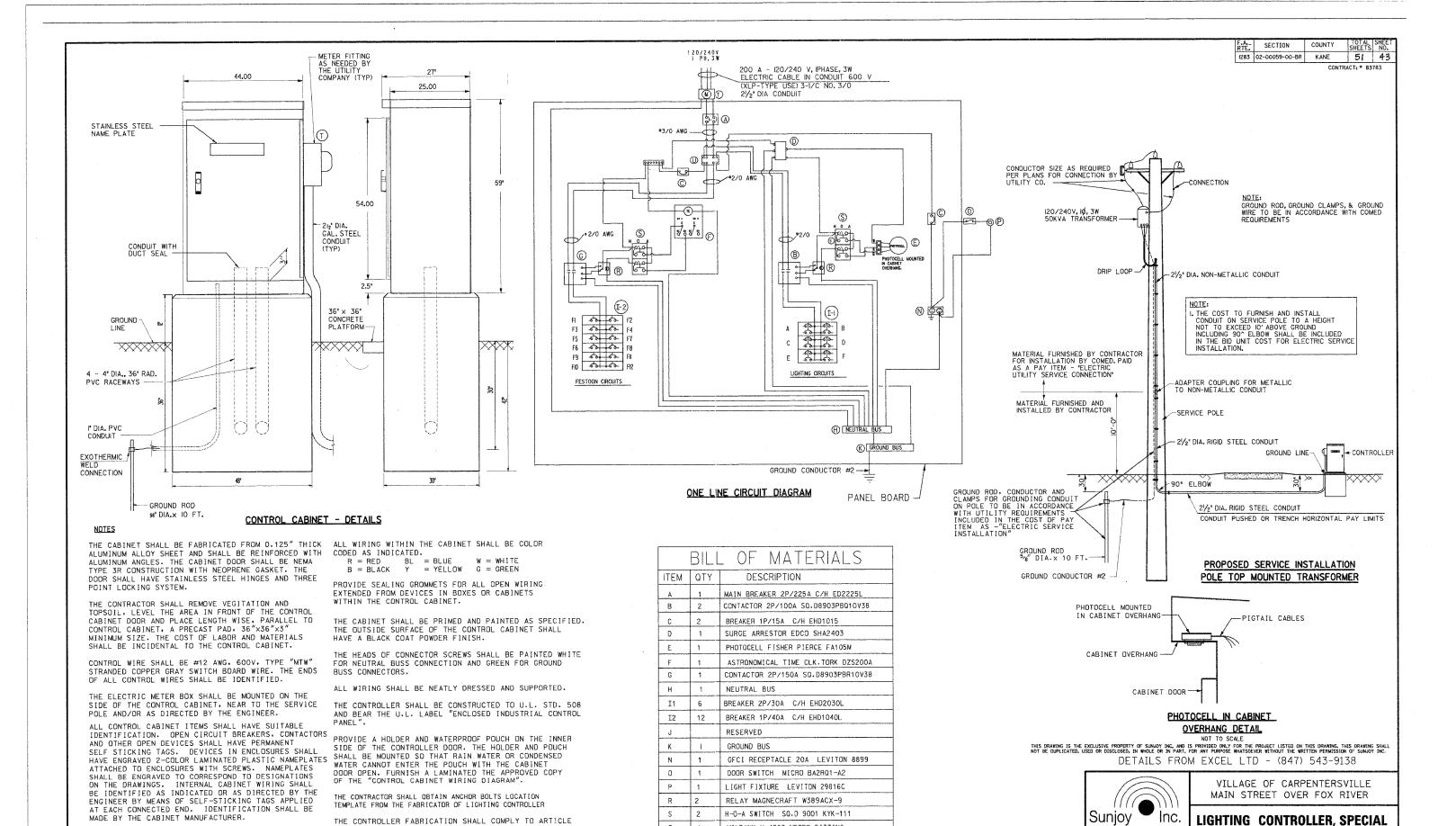
DECORATIVE POLE 16 FT MOUNTING HEIGHT

VE SCALE: NTS
DATE: 02-05-05

DRAWN BY: HMQ CHECKED BY: JS

E-9 OF 12





MILBANK U-4363 METER FITTING

MARATHON 1452129 SPLICE BLOCK

Area Lighting

CALE: NTS

DATE: 02-05-05

DRAWN BY: HMQ

CHECKED BY: JS

E-II OF 12

212 TIMBERCREST DRIVE

CHAUMBURG, ILLINOIS

60193-1572

REVISION 02-26-05

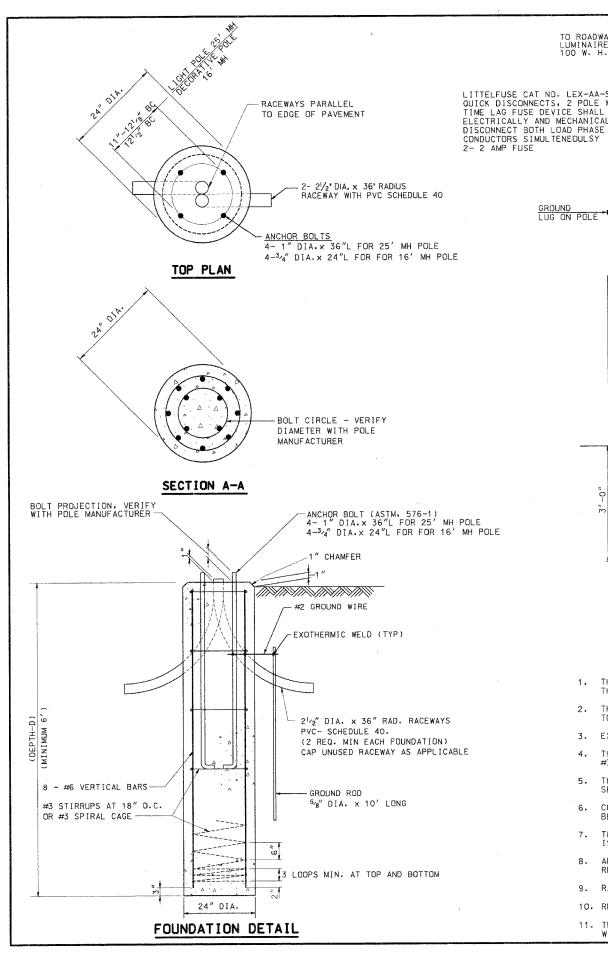
THE CONTROLLER FABRICATION SHALL COMPLY TO ARTICLE

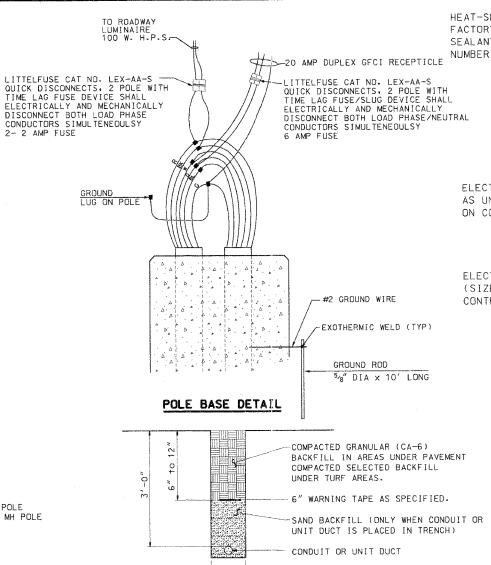
THE CONTROLLER CABINET DOOR SHOULD OPEN AWAY FROM

1068.01 OF THE STANDARD SPECIFICATIONS

THE STREET

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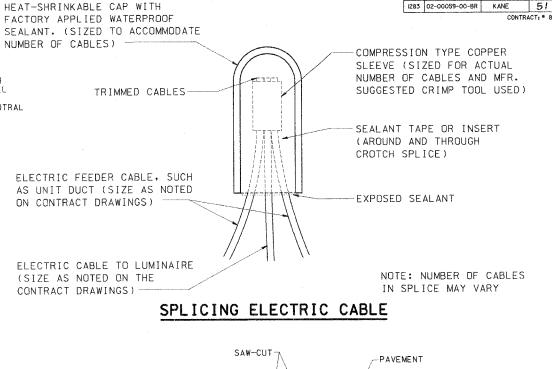
NOTES: FOUNDATION

- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- THE DESIGN DEPTH "D" OF FOUNDATION SHALL BE ACCORDING TO FIELD CONDITIONS.

6" to 12"

TRENCH AND BACKFILL

- 3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER 24" IN DIAMETER.
- 4. THE CONTRACTOR SHALL USE #3 SPIRAL AT 6" PITCH OR AT HIS OPTION MAY SUBSTITUTE #3 TIES AT 12" O.C.
- THE ANCHOR BOLTS TIED WITH REINFORCEMENT AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR (10) TEN DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
- 7. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT POLE
- ANCHOR BOLTS PROJECTION ABOVE THE TOP OF THE FOUNDATION SHALL BE ACCORDING TO THE REQUIREMENTS OF POLE MANUFACTURER.
- 9. RACEWAYS SHALL PROJECT " ABOVE THE TOP OF THE FOUNDATION.
- 10. REINFORCEMENT BARS SHALL COMPLY WITH ARTICLE 1006.10 OF THE STANDARD SPECIFICATION.
- 11. THE GROUND ROD, REINFORCING BAR AND ANCHOR BOLT SHALL BE TIED WITH #2 COPPER WIRE AND CONNECTION SHALL BE EXOTHERMIC WELD.



REMOVE AND REPLACE ASPHALT -COMPACTED GRANULAR (CA-6) 0 BACKFILL IN AREAS UNDER PAVEMENT 6" WARNING TAPE AS SPECIFIED. — RIGID GALVANIZED STEEL CONDUIT WITH UNIT DUCT 6" to 12"

TRENCH AND BACKFILL UNDER ASPHALT PAVEMENT

ECHINDATION DESIGN TARES

	DESIGN DEPTH	OF FOUND'N		EMENT IN FO				
TYPE OF SOIL	SINGLE ARM	TWIN ARM	SINGLE			TWIN ARM		
	D	D	VERT BARS	SPIRAL	VERT BARS	SPIRAL		
SOFT CLAY	13'-0"	15'-0"	8-#6 X 12'-6"	#3 X 122′	8-#6X14'X3'	*3 X 141		
MEDIUM CLAY	9'-6"	10'~9''	8-#6 X 9'-0"	#3 X 90′	8-#6 X 10'-0'	*3 X 100		
STIFF CLAY	7'-0"	8'-0"	8-#6 X 6/-6"	*3 X 66"	8-#6 X 7'-6"	*3 X 76		
LOOSE SAND	9'-0"	10'-0"	8-*6 X 8'-6"	*3 X 85′	8-*6 X 9'-6"	#3 X 94		
MEDIUM SAND	8'-3"	9'-0"	8-#6 X 8'-0"	#3 X 78′	8-#6 X 8'-6"	#3 X 85		
DENSE SAND	7′-9″	9'-0"	8-46 X 7'-6"	*3 X 73′	8-#6 X 8'-6"	#3 X 85		
ROCK OR SOLIDIFIED SLAG	5'-0"	5′-0″	NONE	NONE	NONE	NONE		

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60193-1572

REVISION 02-26-05

VILLAGE OF CARPENTERSVILLE MAIN STREET OVER FOX RIVER

SECTION

COUNTY

SHEETS NO

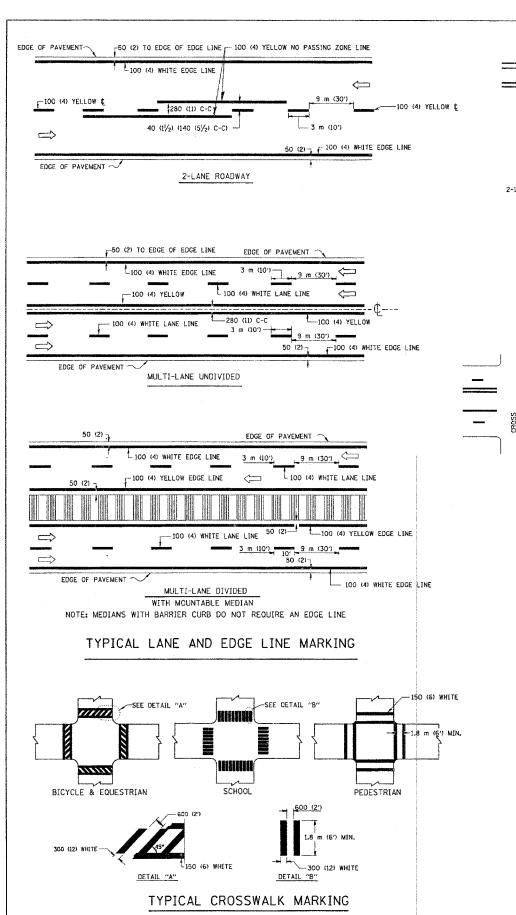
ELECTRICL DETAILS

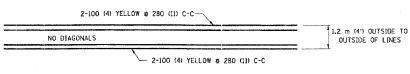
SCHAUMBURG, ILLINOIS

SCALE: NTS DATE: 02-05-05

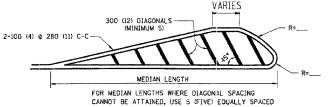
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E-12 OF 12



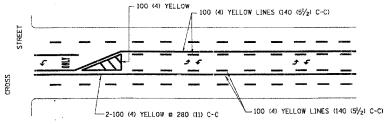


1.2 m (4') WIDE MEDIANS ONLY

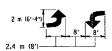


DIAGONAL LINE SPACING: 15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

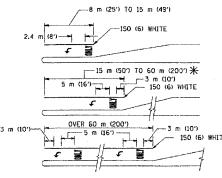


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200°) TO 90 m (300°) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

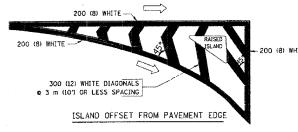


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. \P AREA = 1.5 m² (15.6 SQ. FT.) \P AREA = 1.9 m² (20.8 SQ. FT.)

* TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

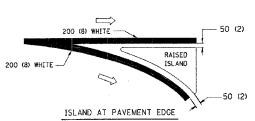
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



F. A. RTE.	SECTION			COUNTY	TOTA		T3HE NO
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CONTRACT #: 83783



TYPICAL ISLAND MARKING

Ť				
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 e 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5½) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE.	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (10") LINE WITH 9 m (30") SPACE FOR SKIP-DASH: 140 (5½) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
·	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPINE POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	280 (1) C-C FOR THE DOUBLE LINE
	© 45° NO DIAGONALS USED FOR 1.2 π (4') WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS & 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "M"-0.33m2 (3.6 SO. FT.) EACH "X"-5.0 m2 (54.0 SO. FT.)
SHOULDER DIAGONALS	300 (12) & 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (0VER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

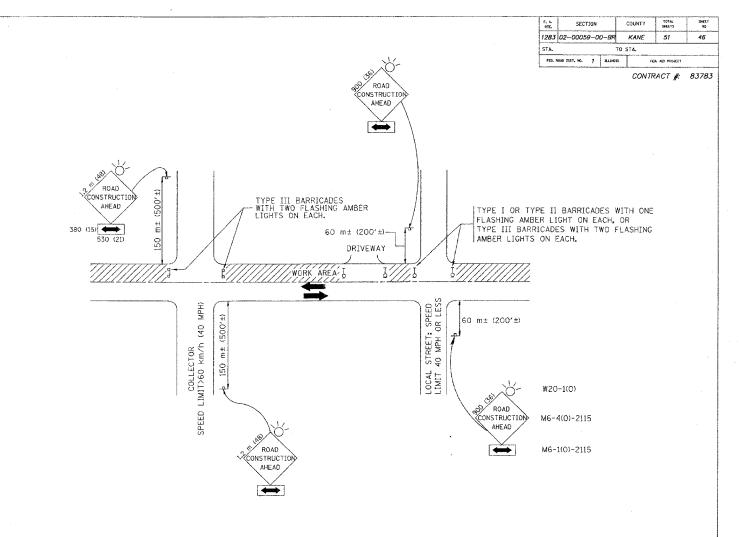
All dimensions are in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE DATE 11/20/01 DRAWN BY CADD CHECKED BY

TC-13



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 900×900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I. TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m \times 1.2 m (48 \times 48) WITH A FLASHER MOUNTED ON 1T APPROXIMATELY 150 m (500°) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 70150), STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

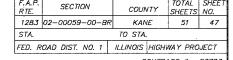
All dimensions are in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

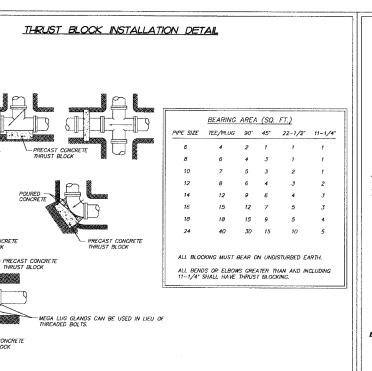
REVISIONS
NAME DATE
LHA 6/89
RAMMACHER 09/08/94
J. OBERLE 10/18/95
A. HOUSEH 03/06/96
A. HOUSEH 10/15/96

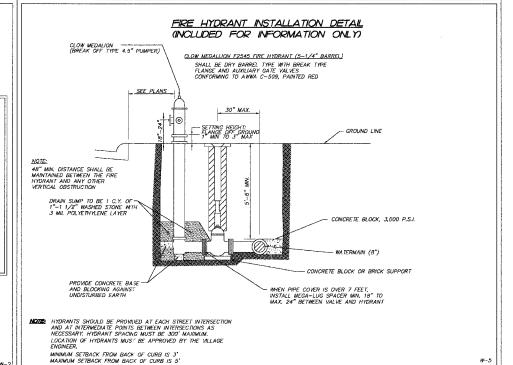
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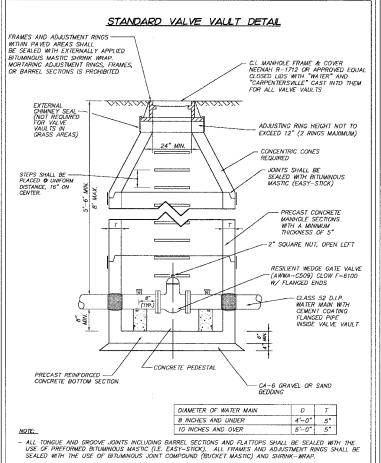
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1/20/01 CHECKED BY



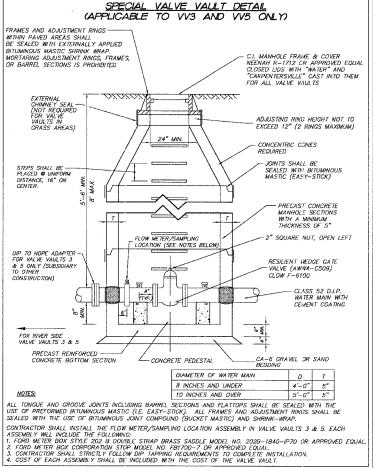


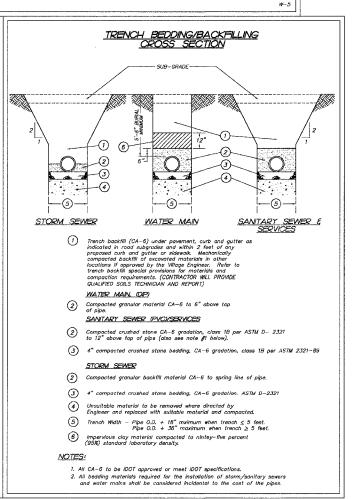






— PRECAST CONCRETE THRUST BLOCK







SMITH ENGINEERING CONSULTANTS, INC.
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS
4000 PIEME PARKENS, SUPE 201
PH. 615-505-1770 PAC. 615-305-1761
www.amithengineering.com B-MALIE Sociemithengineering.com
HUNTLEY ### 184-000108
ILLINOIS PROFESSIONAL DESIGN FIRM ## 184-000108

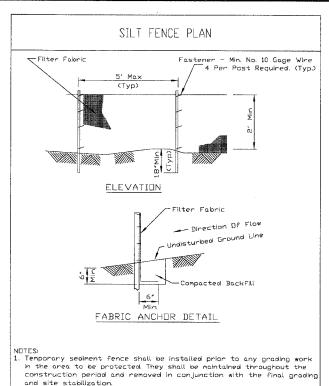
ILLINOIS DEPARTMENT OF TRANSPORTATION

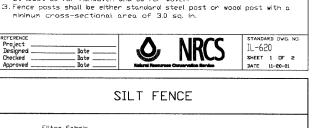
VILLAGE OF CARPENTERSVILLE MAIN STREET OVER THE FOX RIVER STANDARD CONSTRUCTION DETAILS

SCALE: "NTS"

DATE 02-25-2005

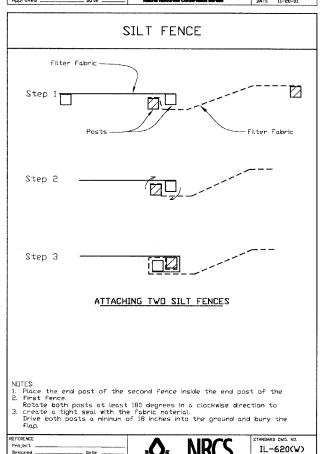
DRAWN BY WJH CHECKED BY TEH

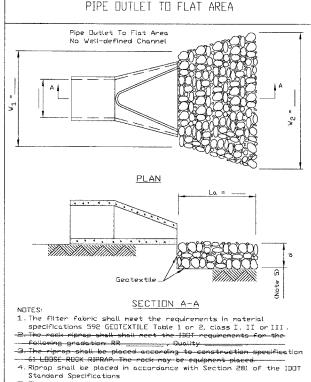




. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of

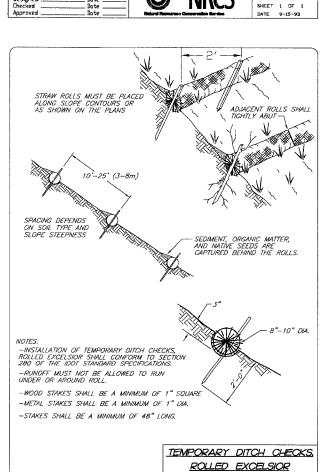
at least 30 for nonwoven and 50 for woven

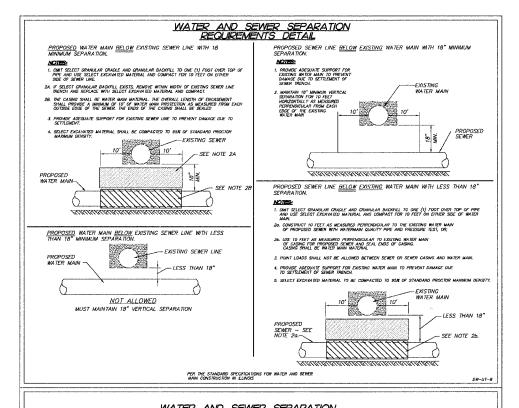


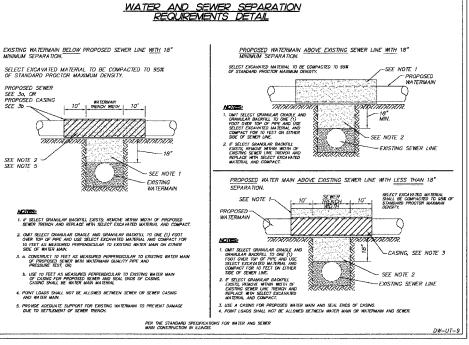


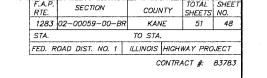
5. The type, size, and location of the stone rip rap are shown on the Erosion Control Plan. The depth d shall conform to Section 281 of the IDDT Standard Specifications

IL-610









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4500 PENE PARKAY, SURVE 201
PB. 615-686-1776 PAC 615-695-1761
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ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

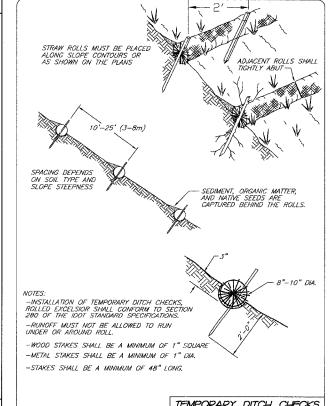
ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF CARPENTERSVILLE MAIN STREET OVER THE FOX RIVER STANDARD CONSTRUCTION DETAILS

SCALE: "NTS"

DATE

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NOT TO SCALE

PILE.

MITH ENGINEERING CONSULTANTS INC.

EARTHWORK TABLE

					IN STR					
		END AREAS SQ. FT.			s	UM END AREA SQ. FT.	s	5	SECTION TOTA CU. YD.	L
WEST OF E										
STA.		UNDERCUT	FILL	DISTANCE	CUT	UNDERCUT	FILL	CUT	UNDERCUT	FILL
10641	0		0							
10650	63.35	31	2.65	9	63.35	31	2.65	11	5	0
10700	37.95	31	8.12	50	101.3	62	10.77	94	57	10
10750	50.15	31	7.24	50	88.1	62	15.36	82	57	14
10800	57.2	31	5.96	50	107.35	62	13.2	99	57	12
10850	72.1	31	1.16	50	129.3	62	7.12	120	57	7
10856	70.65	31	1.04		142.75	62	2.2	16	7	0
10865	71.8	31	5.64	9	142.45	62	6.68	24	10	1
10900	56.1	31	2.64	35	127.9	62	8.28	83	40	5
10950	30.35	31	2.76	50	86.45	62	5.4	80	57	5
10959	27.3	31	8.16	9	57.65	62	10.92	10	10	2
11000	27.75	31	8.28	41	55.05	62	16.44	42	47	12
11050	37.1	31	0	50	64.85	62	8.28	60	57	8
11096	0		0	46	37.1	31	0	32	26	0
AST OF B	RIDGE									
11310	0	0	0							
11350	48.45	31	1.86	40	48.45	31	1.86	36	23	1
11356	52.75	31	1.8	6	101.2	62	3.66	11	7	0
11400	70.05	31	2.46	44	122.8	62	4.26	100	51	3
11432	52.5	31	2.24	32	122.55	62	4.7	73	37	3
11450	56.55	31	0.82	18	109.05	62	3.06	36	21	1
11468	49.45	31	1.74	18	106	62	2.56	35	21	1
11500	60.15	31	1.88	32	109.6	62	3,62	65	37	2
11509	56.5	31	1.02	9	116.65	62	2.9	19	10	0
11523	48.7	31	1.36	14	105.2	62	2.38	27	16	1
11550	45.9		3.06	27	94.6	62	4.42	47	31	2
11600	9.65		4.42	50	55.55	62	7.48	51	57	7
							CUT =	1253		
						UNDE	RCUT =		801	
							FILL =			99
	REMO	VAL AND DIS	POSAL O	F UNSUITARI	LE MATE	RIAL ≈			2053	
				FURNISHE						99

F.A. ROUTE	SECTION			COUNTY			TOTAL SHEETS	SHEET NO.
1283	0200	020005900BR			KANE		51	49
	STA.	106+4	1	то	STA.	116+1	8	
FED. ROAD [DIST.	1	ILLI	NOIS	FEDER.	AL AID	PROJECT	

CONTRACT #: 83783

CHECKED BY: TEH

TEMPORARY EASEMENT DETAIL

