

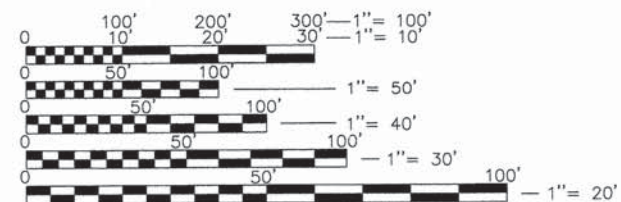
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	1
ILLINOIS CONTRACT NO. 61B04				

09-18-2015 LETTING ITEM 023

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

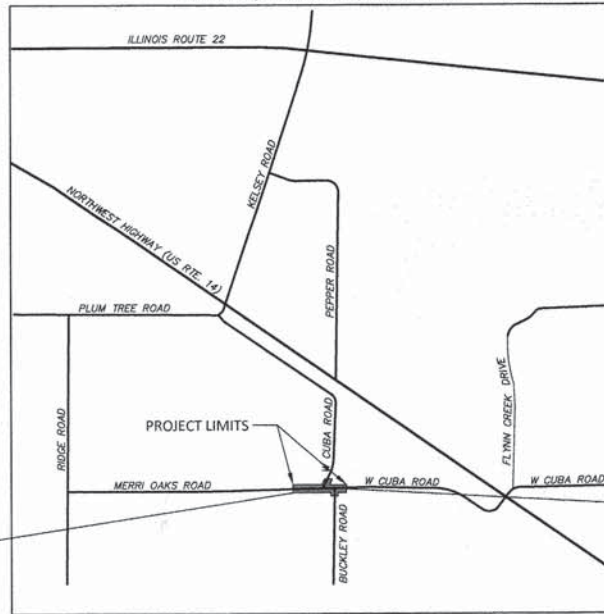
**PLANS FOR PROPOSED FEDERAL AID PROJECT**  
**FAU ROUTE 1260 (CUBA ROAD)**  
**CUBA ROAD**  
**AT FLINT CREEK**  
**BRIDGE RECONSTRUCTION**  
**SECTION 12-00020-00-BR**  
**PROJECT NO. BRM-4003(107)**  
**VILLAGE OF BARRINGTON HILLS**  
**LAKE COUNTY**  
**C-91-083-13**

INDEX OF SHEETS (SEE SHEET 2)



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.

**LOCATION MAP**  
(NOT TO SCALE)  
SECTION 28, TOWNSHIP 43N, RANGE 9 EAST 3rd P.M.



**PLANS PREPARED FOR:**  
 VILLAGE OF BARRINGTON HILLS  
 112 ALGONQUIN ROAD  
 BARRINGTON HILLS, IL 60010

PROJECT BEGINS STA. 36+50

PROJECT ENDS STA. 40+50

**CUBA TOWNSHIP**  
**PROJECT INFORMATION**  
 GROSS & NET LENGTH OF PROJECT = 400' (0.076 MILES)  
 ADT = 770 VPD (2012)  
 POSTED SPEED LIMIT = 25 MPH  
 DESIGN SPEED LIMIT = 30 MPH  
 FUNCTIONAL CLASSIFICATION = MAJOR COLLECTOR

**J.U.L.I.E.**  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811  
  
 Know what's below. Call before you dig.

**CIVIL PLANS PREPARED BY:**  
**GIA GEWALT HAMILTON ASSOCIATES, INC.**  
 Consulting Engineers  
 Corporate Headquarters  
 625 Forest Edge Drive  
 Vernon Hills, IL 60061  
 847-478-9700  
 FAX: 847-478-9701

STRUCTURAL PLANS (SHEETS 15-24)  
 PREPARED BY WISS, JANNEY, ELSTNER ASSOCIATES (SEE SHEETS FOR SEAL & SIGNATURE)

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

APPROVED: \_\_\_\_\_ DECEMBER 15, 2014  
 M.A.H. ML  
 VILLAGE OF BARRINGTON HILLS

PASSED: DECEMBER 29, 2014  
 C. Holt  
 DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW DECEMBER 30, 2014  
 D. Strahan  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PROFESSIONAL ENGINEER'S SIGNATURE & SEAL  
  
 Daniel J. Strahan, P.E. DATE: 12-15-14 EXPIRES: 11/30/15 SEAL

**PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS**

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E. (847)-705-4021 SCHAUMBURG, IL

**GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR 811 FOR FIELD LOCATIONS, BURIED ELECTRIC LINES, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITIES OF MT. PROSPECT AND ARLINGTON HEIGHTS.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATIONS FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
- THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH, WITH WRITTEN APPROVAL FROM THE ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO THE DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED ACCORDING TO ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS.
- THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB & GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLANS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC FIELD ENGINEER, WALTER CZARNY, AT (847) 715-8419, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS. THE CONTRACTOR SHALL CONTACT THE IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

**NOTE:**

THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. FOR INFORMATION REGARDING THE EXISTING STRUCTURE SEE RECORD PLANS ON SHEETS 36-41.

- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKING ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKING DETAIL (TC-13).
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT IN ACCORDANCE WITH DISTRICT 1 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-LOW RESISTANT) (TC-11).
- INVERT ELEVATIONS FOR EXISTING PIPES HAVE BEEN SHOWN ON THE PLANS WHEN SURVEY INFORMATION WAS AVAILABLE. THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS FOR EXISTING PIPES IN THE FIELD AT THE TIME OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL DRAINAGE ITEMS INCLUDING PIPES, CULVERTS, AND MANHOLES; THAT ARE SET IN PLACE WITH NO CONNECTING END SHALL BE BLOCKED WITH MASONRY BEFORE BACKFILL IS PLACED OVERTOP, SO AS TO PREVENT FILL FROM ENTERING.
- FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
- TOP OF FRAME ("RIM") ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS PART OF THE STRUCTURE COST.
- DRAINAGE ADJUSTMENTS OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF THE UTMOST IMPORTANCE TO THE VILLAGE OF BARRINGTON HILLS. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- TREE ROOT PRUNING IS TO BE USED ON EXISTING TREES TO PREVENT THE RIPPING UP OF ROOTS WHEN TRENCHING OR EXCAVATION IS WITHIN THE ROOT ZONE OF ADJACENT TREES TO REMAIN. SUPPLEMENTAL WATERING OF TREES SHOULD BEGIN IMMEDIATELY AFTER ROOT PRUNING OF THE TREES HAS OCCURRED.
- ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6-7	ALIGNMENT AND TIES AND PLATS OF HIGHWAY
8	MAINTENANCE OF TRAFFIC - DETOUR
9	EXISTING CONDITIONS / DEMOLITION PLAN
10	ROADWAY PLAN & PROFILE - CUBA ROAD
11	UTILITY AND DRAINAGE PLAN
12	SOIL EROSION AND SEDIMENT CONTROL PLAN
13	WETLAND IMPACT AREA
14	TREE PRESERVATION PLAN
15-24	STRUCTURAL DRAWINGS
25-27B	DETAILS
28-35	CROSS SECTIONS
36-41	CUBA ROAD BRIDGE RECORD PLANS

**POINTS OF CONTACT**

VILLAGE OF BARRINGTON HILLS  
ATTN: ROBERT KOSIN  
112 ALGONQUIN ROAD  
BARRINGTON HILLS, IL 60010  
(847)-551-3000

AT&T/DISTRIBUTION  
ATTN: DAVID SAINT GERMAIN  
1000 COMMERCE DRIVE 2ND FLOOR  
OAK BROOK, IL 60523  
(815)-394-7297

MCHENRY COUNTY COUNCIL OF MAYORS  
ATTN: JANELL JENSEN  
MCHENRY COUNTY DIVISION OF TRANSPORTATION  
16111 NELSON ROAD  
WOODSTOCK, IL 60098  
(815)-334-4960

COMMONWEALTH EDISON  
ATTN: DAVID SCHACHT  
2 LINCOLN CENTER  
OAKBROOK TERRACE, IL 60181  
(630)-437-2129

COMCAST  
ATTN: ROBERT L. SCHULTER, JR.  
688 INDUSTRIAL DR.  
ELMHURST, IL 60126  
(630)-600-6352

NICOR GAS  
ATTN: CONSTANCE LANE  
1844 FERRY ROAD  
NAPERVILLE, IL 60563  
(630)-388-3830

**HIGHWAY STANDARD LIST**

LCDOT HIGHWAY STANDARDS

LC6310 TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)

IDOT HIGHWAY STANDARDS

Code	Description
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602011-02	CATCH BASIN - TYPE C
602301-04	INLET - TYPE A
604036-03	GRATE, TYPE 8
604091-03	FRAME & GRATE, TYPE 24
630001-10	STEEL PLATE BEAM GUARDRAIL
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600 MM)
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS
701901-04	TRAFFIC CONTROL DEVICES
720006-04	SIGN PANEL ERECTION DETAILS

**BENCHMARK:**

LAKE COUNTY DOT BENCHMARK: BM7-23R FROM THE INTERSECTION OF U.S. 14 AND CUBA ROAD GO NW ON U.S. 14 APPROX. 0.35 MI. TO MARK. CUT SQUARE IN ABUTMENT OF W BOUND LANES. APPROX. LATITUDE N 42.178902, LONGITUDE W -8818129.

ELEVATION: 770.41 (NGVD 29)

**EXISTING UTILITIES:**

INFORMATION PRESENTED REGARDING THE LOCATION AND DEPTH OF UTILITY EQUIPMENT (POLES, LINES, WIRES, CABLES, PEDESTALS, TRANSFORMERS, SWITCHGEAR, VALVES, VAULTS, GAS MAIN ETC.) HAS BEEN PROVIDED TO THE ENGINEER BY THE UTILITY COMPANIES.

THE ENGINEER HAS ENDEAVORED TO ACCURATELY TRANSFER THE INFORMATION PROVIDED BY THE UTILITY COMPANIES ONTO THESE PLANS. UTILITY DEPTH AND LOCATION INFORMATION PROVIDED BY UTILITY COMPANIES SHALL IN NO WAY DIMINISH THE IMPORTANCE OF, NEED FOR, OR MANDATE REGARDING J.U.L.I.E. UTILITY LOCATES.

Point Table				
Point #	Northing	Easting	Elevation	Description
1	2006805.73	1024315.05	771.26	CP1-FMN-CP
100	2006782.27	1023860.66	777.48	CP100-SMN
101	2006822.07	1024280.45	769.90	CP101-SMN
102	2006796.47	1023607.07	782.70	CP102-FMN
104	2006819.42	1024461.77	774.90	CP104-SMN
105	2006814.93	1024790.31	788.72	CP105-SMN
210	2007030.77	1024395.39	765.75	CP200-MN
250	2006509.58	1024446.62	780.59	CP250-SMN
60001	2006812.22	1024093.76	771.16	WP
60003	2006897.59	1024443.22	780.78	WP

FILE NAME = 4853.000-DTI.dwg	USER NAME = DAN STRAHAN	DESIGNED - DJS	REVISED - 10/17/14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES CUBA ROAD BRIDGE RECONSTRUCTION</b>	FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - PJS	REVISED - 10/28/14			1260	12-00020-00-BR	LAKE	41	2	
		CHECKED - DJS	REVISED - 12/15/14			SCALE N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. NA	TO STA. NA	CONTRACT #:	61B04
		DATE - 9/26/14	REVISED - 1/14/15			ILLINOIS FED. AID PROJECT					

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0011 BRIDGE REPLACEMENT	0042 TRAINEES
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	130	130		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16	16		
20101000	TEMPORARY FENCE	FOOT	200	200		
20101100	TREE TRUNK PROTECTION	EACH	3	3		
20101200	^ TREE ROOT PRUNING	EACH	3	3		
20101700	SUPPLEMENTAL WATERING	UNIT	50	50		
20200100	EARTH EXCAVATION	CU YD	450	450		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50	50		
20800150	* TRENCH BACKFILL	CU YD	48	48		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,575	1,575		
21101625	^ * TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1,870	1,870		
21400100	GRADING AND SHAPING DITCHES	FOOT	350	350		
25000300	^ SEEDING, CLASS 3	ACRE	0.13	0.13		
25000312	^ SEEDING, CLASS 4A	ACRE	0.19	0.19		
25000314	^ SEEDING, CLASS 4B	ACRE	0.07	0.07		
25100630	^ * EROSION CONTROL BLANKET	SQ YD	1,870	1,870		
28000250	^ TEMPORARY EROSION CONTROL SEEDING	POUND	80	80		
28000305	TEMPORARY DITCH CHECKS	FOOT	35	35		
28000400	* PERIMETER EROSION BARRIER	FOOT	625	625		
28000510	INLET FILTERS	EACH	3	3		
28100105	STONE RIPRAP, CLASS A3	SQ YD	12	12		
28100107	STONE RIPRAP, CLASS A4	SQ YD	292		292	
28200200	FILTER FABRIC	SQ YD	220		220	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	50	50		
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SQ YD	1,575	1,575		
31101000	* SUBBASE GRANULAR MATERIAL, TYPE B	TON	1,550	1,550		
40201000	* AGGREGATE FOR TEMPORARY ACCESS	TON	20	20		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	180	180		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	360	360		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50	TON	180	180		
42000100	PORTLAND CEMENT CONCRETE PAVEMENT 6"	SQ YD	127		127	

\* DENOTES SPECIAL PROVISION  
^ DENOTES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0011 BRIDGE REPLACEMENT	0042 TRAINEES
42001200	PAVEMENT FABRIC	SQ YD	127		127	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	60		60	
42100100	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	182		182	
42100615	PAVEMENT REINFORCEMENT	SQ YD	182		182	
44000100	PAVEMENT REMOVAL	SQ YD	1,750	1,750		
48101500	AGGREGATE SHOULDERS, TYPE B, 6"	SQ YD	340	340		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50200100	STRUCTURE EXCAVATION	CU YD	760		760	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	60		60	
50201101	COFFERDAM (TYPE I) (LOCATION - 1)	EACH	1		1	
50201102	COFFERDAM (TYPE I) (LOCATION - 2)	EACH	1		1	
50300225	CONCRETE STRUCTURES	CU YD	173.9		173.9	
50300254	RUBBED FINISH	SQ FT	1,060		1060	
50300285	* FORM LINER TEXTURED SURFACE	SQ FT	308		308	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	21,651		21651	
51500100	NAME PLATES	EACH	1		1	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1		
55100500	STORM SEWER REMOVAL, 12"	FOOT	40	40		
58000100	MEMBRANE WATERPROOFING	SQ FT	3,350		3350	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	371		371	
60100080	FRENCH DRAIN	CU YD	4		4	
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ YD	310		310	
20046306	PIPE UNDERDRAIN FOR STRUCTURES, 6"	FOOT	168		168	
60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60219530	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	1	1		
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1		
60500050	REMOVING CATCH BASINS	EACH	1	1		
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	1		1	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	126	126		
63000001	^ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	238	238		

FILE NAME = 4853.000-071.dwg

USER NAME = DAN STRAHAN

DESIGNED - DJS

REVISED - 10/17/14

DRAWN - PJS

REVISED - 10/28/14

CHECKED - DJS

REVISED - 12/15/14

DATE - 9/26/14

REVISED - 1/14/15

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
CUBA ROAD BRIDGE RECONSTRUCTION**

SCALE: N.T.S.

SHEET NO. 1 OF 2 SHEETS

STA. NA

TO STA. NA

F.A.U. RITE

1260

SECTION

12-00020-00-BR

COUNTY

LAKE

TOTAL SHEETS

41

SHEET NO.

3

CONTRACT #:

61B04

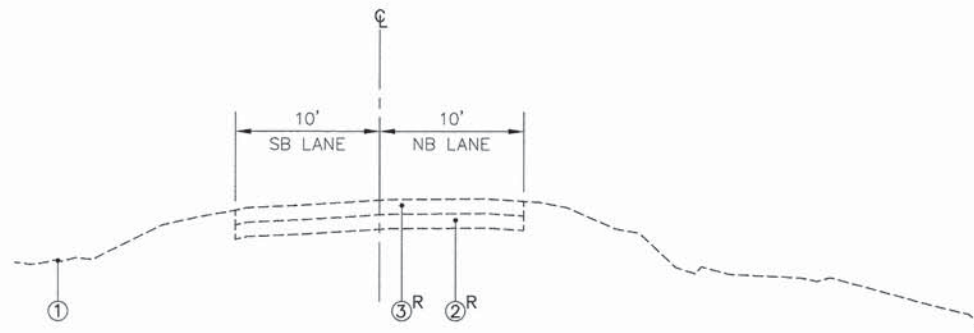
ILLINOIS FED. AID PROJECT

**SUMMARY OF QUANTITIES**

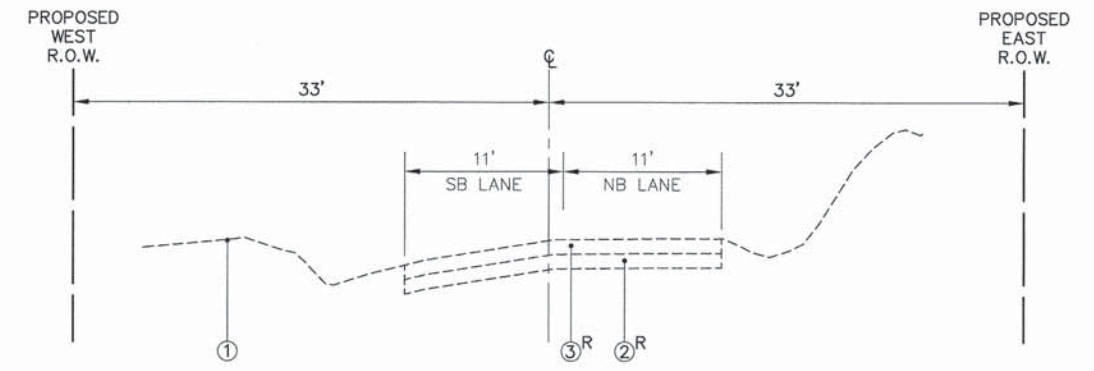
CODE NO.		ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0011 BRIDGE REPLACEMENT	0042 TRAINEES
6300025	^	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	40		40	
6310075	^	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2		2	
63100167	^	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
63200310	^	GUARDRAIL REMOVAL	FOOT	316	316		
66400105	^	CHAIN LINK FENCE, 4'	FOOT	105	105		
67100100		MOBILIZATION	L SUM	1	1		
70106800		CHANGEABLE MESSAGE SIGN	CAL MO	4	4		
70400100		TEMPORARY CONCRETE BARRIER	FOOT	96		96	
72000200		SIGN PANEL - TYPE 2	SQ FT	15	15		
72900200		METAL POSTS - TYPE B	FOOT	26	26		
78000200	^	THERMOPLASTIC PAVEMENT MARKINGS - LINE 4"	FOOT	200	200		
78000300	^	THERMOPLASTIC PAVEMENT MARKINGS - LINE 5"	FOOT	651	651		
78200100	^	MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	12		12	
78201000	^	TERMINAL MARKER - DIRECT APPLIED	EACH	2		2	
550A0050		STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	115	115		
A2001724	^	TREE, ACER SACCHARUM (SUGAR MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	4	4		
A2007122	^	TREE, QUERCUS RUBRA (RED OAK), 3" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
X0322587		CONSTRUCTION ACCESS	EACH	1	1		
X0322936		REMOVE EXISTING FLARED END SECTION	EACH	1	1		
X0326443	*	SILANE SURFACE SEALER	SQ YD	433		433	
X2070304	*	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	1,600		1600	
X5030290	*	STAINING CONCRETE STRUCTURES	SQ FT	308		308	
X6640300		CHAIN LINK FENCE REMOVAL	FOOT	105	105		
X7010216	*	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1		
Z0018911		DRILL AND GROUT #6 TIE BARS	EACH	70		70	
Z0023201		SEDIMENT CONTROL, SILT CURTAIN	EACH	2	2		
Z0030850	*	TEMPORARY INFORMATION SIGNING	SQ FT	109	109		
Z0032470		JOINT SEALER	FOOT	289		289	
Z0033700	*	LONGITUDINAL JOINT SEALANT	FOOT	222		222	
Z0038145	*	THREE SIDED PRECAST CONCRETE STRUCTURE, 36' X 13'	FOOT	44		44	

CODE NO.		ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0011 BRIDGE REPLACEMENT	0042 TRAINEES
Z0043900		PREFORMED JOINT FILLER	FOOT	77		77	
Z0051500		REMOVING AND RESETTING STREET SIGNS	EACH	6	6		
Z0073346		SLEEPER SLAB	SQ YD	60		60	
Z0076600	*	TRAINEES	HOUR	500			500
Z0076604	*	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500
XX006658	*	FLOCCULATION LOGS	EACH	40	40		
XX006659	*	FLOCCULATION POWDER	POUND	20	20		
XX009027	*	PRECAST STONE COPING, SPECIAL	FOOT	77		77	

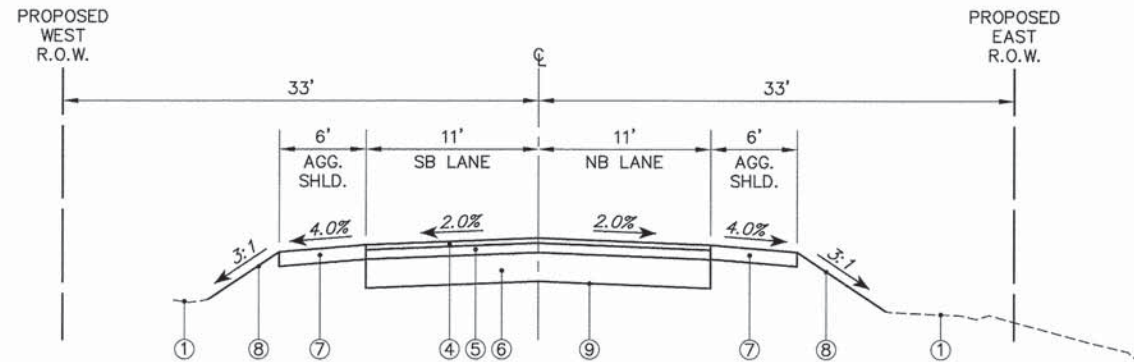
\* DENOTES SPECIAL PROVISION  
^ DENOTES SPECIALTY ITEM



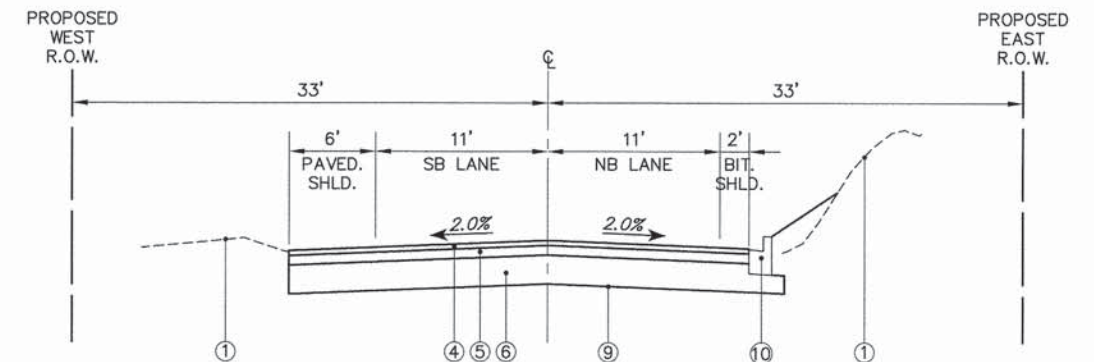
**TYPICAL EXISTING CROSS SECTION**  
STA. 1+00 TO STA. 2+45, CUBA ROAD



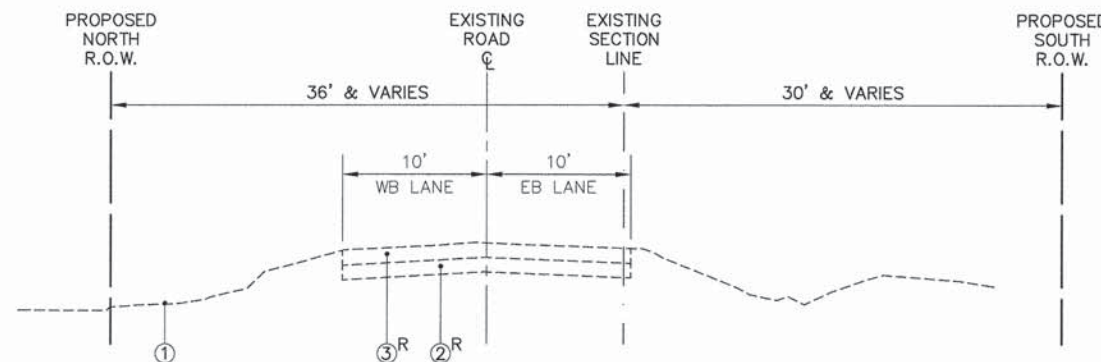
**TYPICAL EXISTING CROSS SECTION**  
STA. 39+00 TO STA. 39+90, BUCKLEY ROAD



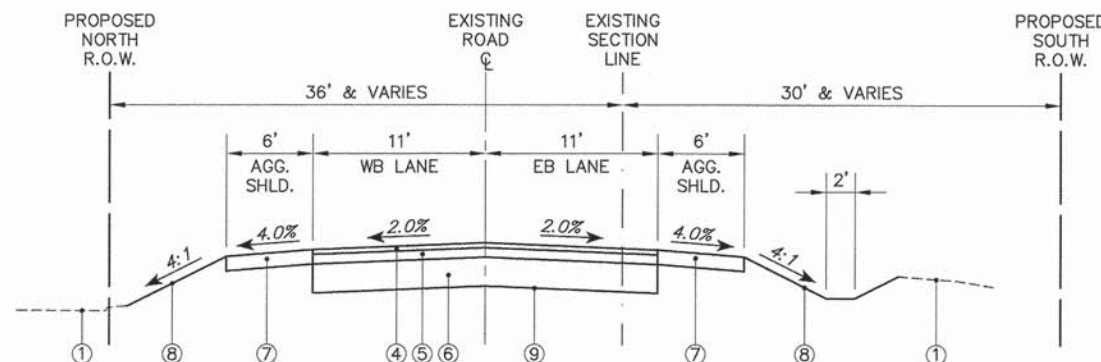
**TYPICAL PROPOSED CROSS SECTION**  
STA. 1+00 TO STA. 2+45, CUBA ROAD



**TYPICAL PROPOSED CROSS SECTION**  
STA. 39+00 TO STA. 39+90, BUCKLEY ROAD



**TYPICAL EXISTING CROSS SECTION**  
STA. 36+50 TO STA. 40+50, MERRI OAKS ROAD / CUBA ROAD



**TYPICAL PROPOSED CROSS SECTION**  
STA. 36+50 TO STA. 40+50, MERRI OAKS ROAD / CUBA ROAD

- ① EXISTING GROUNDLINE
- ② EXISTING SUB-BASE GRANULAR MATERIAL
- ③ EXISTING ASPHALT PAVEMENT (DEPTH VARIES- 7"-10")
- ④ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 2"
- ⑤ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
- ⑥ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑦ PROPOSED AGGREGATE SHOULDERS, TYPE B, 6"
- ⑧ PROPOSED GROUND
- ⑨ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑩ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- <sup>R</sup> ITEM TO BE REMOVED

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"	4% @ 50 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQYD/IN.

"AC TYPE" SHALL BE "PG-64-22" UNLESS MODIFIED BY DISTRICT 1 SPECIAL PROVISION

FOR USE OF RECYCLED MATERIALS, SEE SPECIAL PROVISIONS

FILE NAME = 4853.000-PR2.dwg

USER NAME = DAN STRAHAN

DESIGNED -	DJS	REVISED -	10/17/14
DRAWN -	PJS	REVISED -	10/28/14
CHECKED -	DJS	REVISED -	12/15/14
DATE -	9/26/14	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS  
CUBA ROAD BRIDGE RECONSTRUCTION**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. NA TO STA. NA

FALL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	5
CONTRACT #:			61B04	

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RIGHT OF WAY PLANS  
**FOR PROPOSED  
FEDERAL AID HIGHWAY**

F.A.U. ROUTE 1260  
SECTION 12-00020-00-BR  
LAKE COUNTY  
JOB NO. R-91-006-13  
CONTRACT 61B04



PARCEL NUMBER	OWNER'S NAME	SHEET NUMBER	PROPERTY ACQUIRED BY
0001	ROGER J. CHERRY AND TERESA H. CHERRY TRUSTEES OF THE ROGER J. CHERRY 1998 LIVING TRUST	2	
0002	JOHN C. ADAMS AND JULIE A. ADAMS, TRUSTEES OF THE JOHN C. ADAMS LIVING TRUST	2	
0003	LEIGH A. SELLARI AND VICTOR CERDA	2	
0004	THOMAS DIDOMENICO AND SHARON DIDOMENICO	2	
0005	THE TOWNSHIP OF CUBA	2	



JULIE  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED \_\_\_\_\_ 20 \_\_\_\_\_  
\_\_\_\_\_  
DISTRICT ENGINEER

EXAMINED \_\_\_\_\_ 20 \_\_\_\_\_  
\_\_\_\_\_  
DISTRICT LAND ACQUISITION ENGINEER

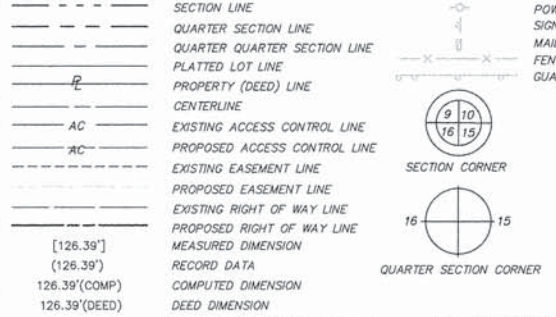
PASSED \_\_\_\_\_ 20 \_\_\_\_\_  
\_\_\_\_\_  
DISTRICT CHIEF OF PLOTS AND PLANS

REVIEWED \_\_\_\_\_ 20 \_\_\_\_\_  
\_\_\_\_\_  
CENTRAL BUREAU RIGHT OF WAY PLANS ENGINEER

APPROVED \_\_\_\_\_ 20 \_\_\_\_\_  
\_\_\_\_\_  
ENGINEER OF LAND ACQUISITION

CONTRACT NO. 61B04

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES.



SECTION LINE  
QUARTER SECTION LINE  
QUARTER QUARTER SECTION LINE  
PLATTED LOT LINE  
PROPERTY (DEED) LINE  
CENTERLINE  
EXISTING ACCESS CONTROL LINE  
PROPOSED ACCESS CONTROL LINE  
EXISTING EASEMENT LINE  
PROPOSED EASEMENT LINE  
EXISTING RIGHT OF WAY LINE  
PROPOSED RIGHT OF WAY LINE  
MEASURED DIMENSION  
RECORD DATA  
COMPUTED DIMENSION  
DEED DIMENSION

IRON PIPE OR ROD FOUND  
CUT CROSS FOUND OR SET

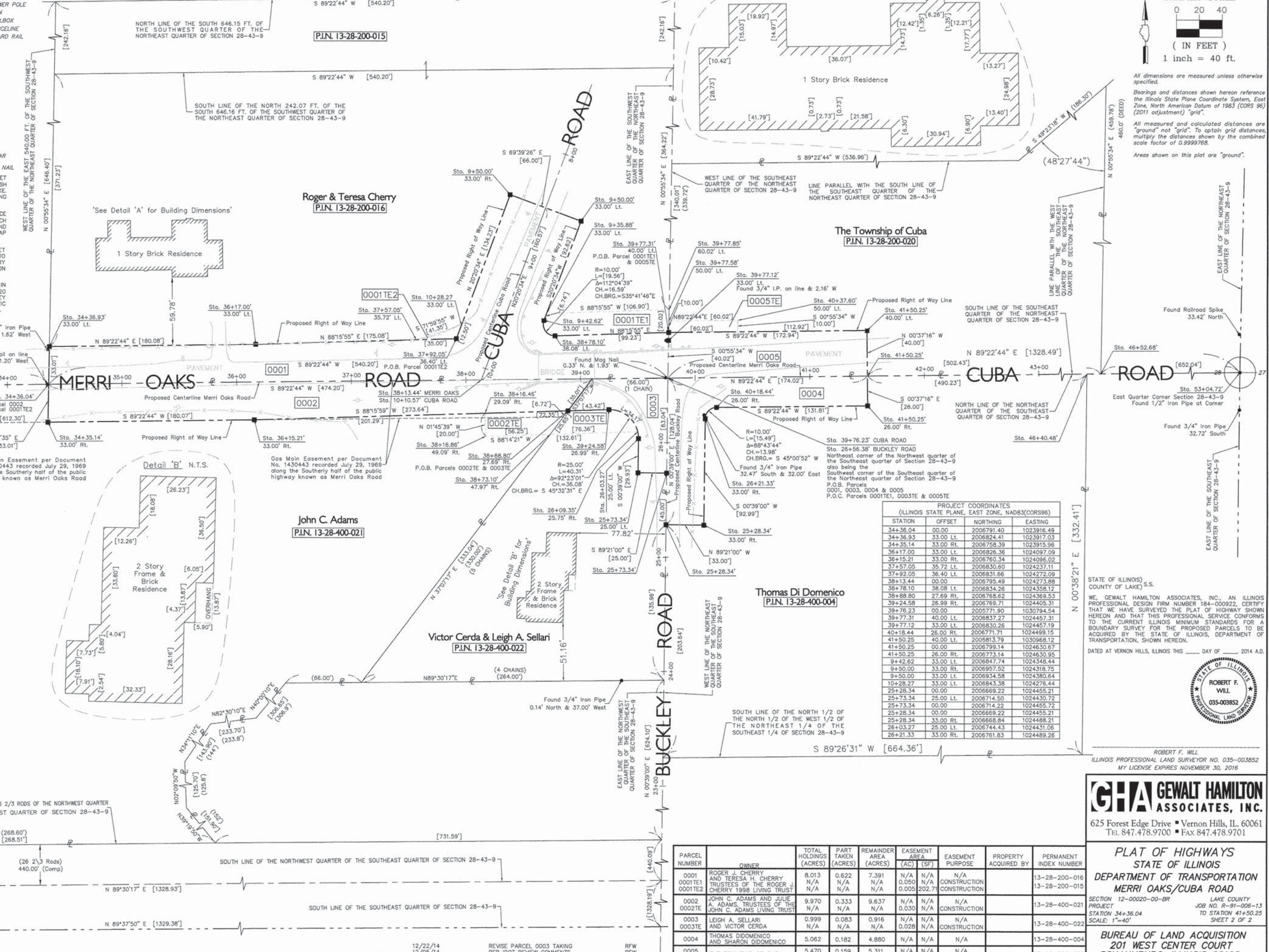
SET 5/8" X 30" REBAR  
MAG FOUND OR SET MAG NAIL

T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION, SET 5/8 INCH REBAR FLUSH WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

T2 THESE STAKES IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION, BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

Southwest corner 1-Story Brick & Frame Animal Hospital  
Witness corner per Monument Record 242443  
Southwest corner 1-Story Brick & Frame Animal Hospital  
Witness corner per Monument Record 242443  
North Quarter Corner Section 28-43-9  
Witness corner per Monument Record 242443  
North Quarter Corner Section 28-43-9  
Witness corner per Monument Record 242443  
West Quarter Corner Section 28-43-9  
Witness corner per Monument Record 6415953  
West Quarter Corner Section 28-43-9  
Witness corner per Monument Record 6415953  
Found 1" Iron Pipe  
Witness corner per Monument Record 6415953  
Found 1" Iron Pipe  
Witness corner per Monument Record 6415953



PROJECT COORDINATES  
(ILLINOIS STATE PLANE, EAST ZONE, NAD83(CORS96))

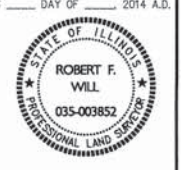
STATION	OFFSET	NORTHING	EASTING
34+36.04	00.00	2006791.40	1023916.49
34+36.93	33.00 Lt.	2006824.41	1023917.03
34+35.14	33.00 Rt.	2006758.39	1023915.96
36+17.00	33.00 Lt.	2006826.36	1024097.09
36+15.21	33.00 Rt.	2006760.34	1024096.02
37+57.05	35.72 Lt.	2006830.60	1024237.11
37+92.05	36.40 Lt.	2006831.66	1024272.09
38+13.44	00.00	2006795.49	1024273.88
38+78.10	38.08 Lt.	2006834.28	1024358.12
38+88.80	27.69 Rt.	2006769.62	1024369.53
39+24.58	26.99 Rt.	2006769.71	1024405.31
39+76.23	00.00	2005771.90	1030794.54
39+77.31	40.00 Lt.	2006837.27	1024457.31
39+77.12	33.00 Lt.	2006830.26	1024457.19
40+18.44	26.00 Rt.	2006771.71	1024499.15
41+50.25	40.00 Lt.	2005813.79	1030968.12
41+50.25	00.00	2006799.14	1024630.67
41+50.25	26.00 Rt.	2006773.14	1024630.95
9+42.62	33.00 Lt.	2006847.74	1024348.44
9+50.00	33.00 Rt.	2006957.52	1024318.75
9+50.00	33.00 Lt.	2006934.58	1024380.64
10+28.27	33.00 Lt.	2006843.38	1024278.44
25+28.34	00.00	2006669.22	1024455.21
25+73.34	25.00 Lt.	2006714.50	1024430.72
25+73.34	00.00	2006714.22	1024455.72
25+28.34	00.00	2006669.22	1024455.21
25+28.34	33.00 Rt.	2006668.84	1024488.21
26+03.27	25.00 Lt.	2006744.43	1024431.06
26+21.33	33.00 Rt.	2006761.83	1024489.28

STATE OF ILLINOIS  
COUNTY OF LAKE, S.S.

WE, GEWALT HAMILTON ASSOCIATES, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-000922, CERTIFY THAT WE HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCELS TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED AT VERNON HILLS, ILLINOIS THIS \_\_\_\_ DAY OF \_\_\_\_\_, 2014 A.D.

ROBERT F. WILL  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003852  
MY LICENSE EXPIRES NOVEMBER 30, 2016



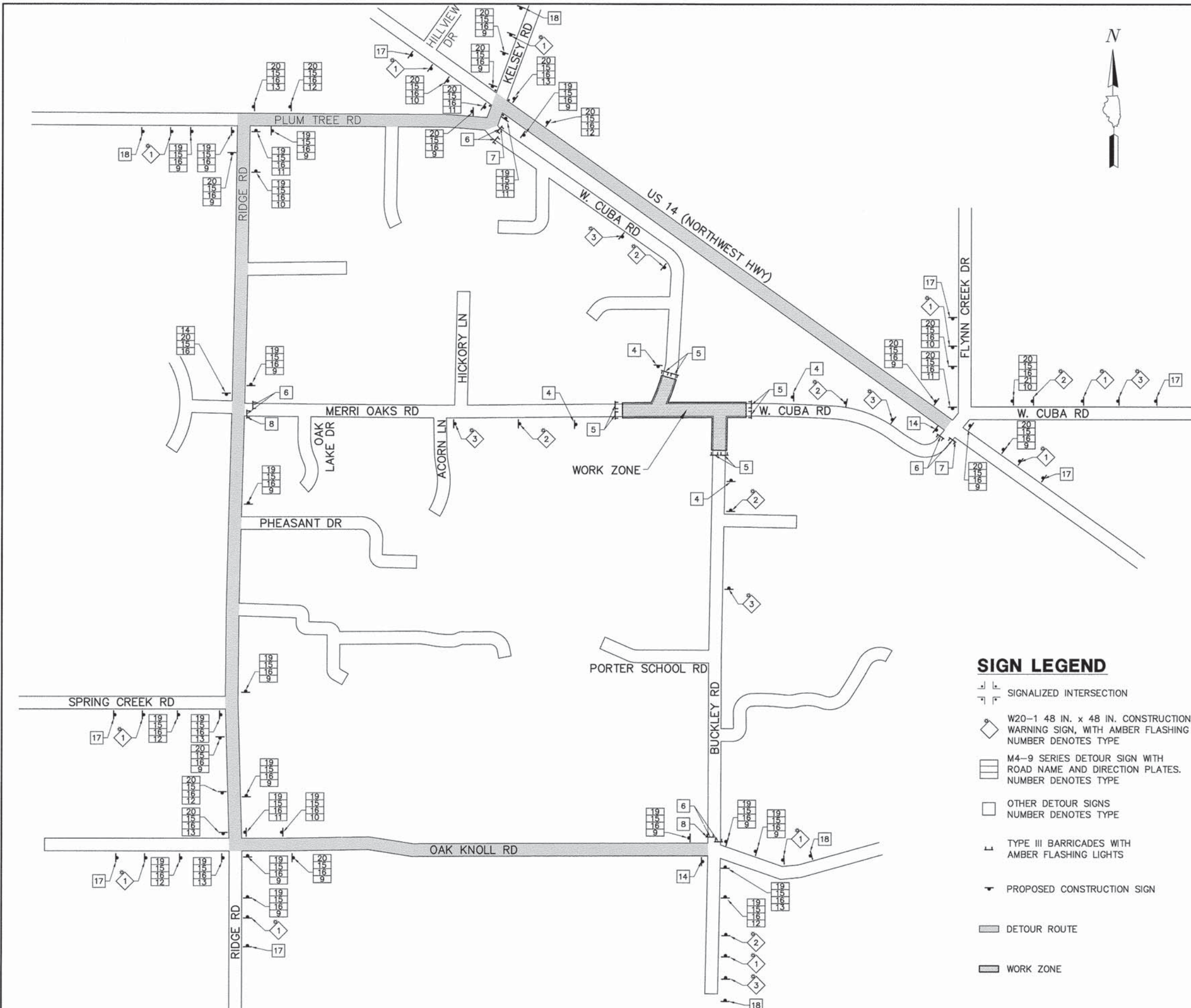
PARCEL NUMBER	OWNER	TOTAL HOLDINGS (ACRES)	PART TAKEN (ACRES)	REMAINDER AREA (ACRES)	EASEMENT AREA (AC) (SF)	EASEMENT PURPOSE	PROPERTY ACQUIRED BY	PERMANENT INDEX NUMBER
0001	ROGER J. CHERRY AND TERESA H. CHERRY TRUSTEES OF THE ROGER J. CHERRY 1998 LIVING TRUST	8.013	0.522	7.391	N/A	N/A	N/A	13-28-200-016
0001TE1		N/A	N/A	N/A	0.060	N/A	CONSTRUCTION	13-28-200-015
0001TE2		N/A	N/A	N/A	0.005	202.71		
0002	JOHN C. ADAMS AND JULIE A. ADAMS, TRUSTEES OF THE JOHN C. ADAMS LIVING TRUST	9.970	0.333	9.637	N/A	N/A	N/A	13-28-400-021
0002TE		N/A	N/A	N/A	0.030	N/A	CONSTRUCTION	
0003	LEIGH A. SELLARI AND VICTOR CERDA	0.999	0.083	0.916	N/A	N/A	N/A	13-28-400-022
0003TE		N/A	N/A	N/A	0.028	N/A	CONSTRUCTION	
0004	THOMAS DIDOMENICO AND SHARON DIDOMENICO	5.062	0.182	4.880	N/A	N/A	N/A	13-28-400-004
0005	THE TOWNSHIP OF CUBA	5.470	0.159	5.311	N/A	N/A	N/A	13-28-200-020
0005TE		N/A	N/A	N/A	0.014	N/A	CONSTRUCTION	

**GEWALT HAMILTON ASSOCIATES, INC.**  
625 Forest Edge Drive ■ Vernon Hills, IL 60061  
TEL 847.478.9700 ■ FAX 847.478.9701

**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**MERRI OAKS/CUBA ROAD**

SECTION 12-00020-00-BR LAKE COUNTY  
PROJECT JOB NO. R-91-006-13  
STATION 34+36.04 TO STATION 41+50.25  
SCALE: 1"=40' SHEET 2 OF 2

**BUREAU OF LAND ACQUISITION**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, ILLINOIS 60196**



**SCHEDULE OF QUANTITIES**

SIGN NO.	SIGN TYPE	QUANTITY
1	DETOUR AHEAD	W20-2 (0) 48
2	ROAD CLOSED 500 FT	W20-3 (0) 48
3	ROAD CLOSED AHEAD	W20-3 (0) 48
4	ROAD WILL BE CLOSED FROM MMM TO THRU MMM	ARTERIAL ROAD INFORMATION SIGN FOR ROADS TO BE FULLY CLOSED AND DETOURED
5	ROAD CLOSED	R11-2 4830
6	ROAD CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY	R11-3 6030
7	DETOUR	M4-10R (0) 4818
8	DETOUR	M4-10L (0) 4818
9	DETOUR	M4-9 (0) 3024
10	DETOUR	M4-9R (0) 3024
11	DETOUR	M4-9R (0) 3024
12	DETOUR	M4-9L (0) 3024
13	DETOUR	M4-9L (0) 3024
14	END DETOUR	M4-8a (0) 2418
15	Cuba Rd	SPECIAL (0) 9 VARIABLE
16	Merri Oaks Rd	SPECIAL (0) 9 VARIABLE
17	Cuba Rd/Merri Oaks Rd CLOSED TO THRU TRAFFIC USE Plum Tree Rd.	SPECIAL (0) 6030
18	Cuba Rd/Buckley Rd CLOSED TO THRU TRAFFIC USE Ridge Rd.	SPECIAL (0) 6030
19	EAST	M3-2 (0) 2412
20	WEST	M3-4 (0) 2412
21	DETOUR SECOND RIGHT	CUSTOM

**SIGN LEGEND**

- SIGNALIZED INTERSECTION
- W20-1 48 IN. x 48 IN. CONSTRUCTION WARNING SIGN, WITH AMBER FLASHING LIGHT. NUMBER DENOTES TYPE
- M4-9 SERIES DETOUR SIGN WITH ROAD NAME AND DIRECTION PLATES. NUMBER DENOTES TYPE
- OTHER DETOUR SIGNS NUMBER DENOTES TYPE
- TYPE III BARRICADES WITH AMBER FLASHING LIGHTS
- PROPOSED CONSTRUCTION SIGN
- DETOUR ROUTE
- WORK ZONE

NOTE: THE CONTRACTOR SHALL NOTIFY LAKE COUNTY PASSAGE TWO WEEKS BEFORE THE DETOUR IS IMPLEMENTED.

**TYPICAL DETOUR SIGN ASSEMBLY**



FILE NAME = 4853.000-Detour.dwg	USER NAME = DAN STRAHAN	DESIGNED - DJS	REVISED - 10/17/14
		DRAWN - PJS	REVISED - 10/28/14
		CHECKED - DJS	REVISED - 12/15/14
		DATE - 6/20/14	REVISED - 1/14/15

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**








**MAINTENANCE OF TRAFFIC - DETOUR PLAN  
CUBA ROAD BRIDGE RECONSTRUCTION**

SCALE: N.T.S. SHEET NO. 01 OF 1 SHEETS STA. NA TO STA. NA

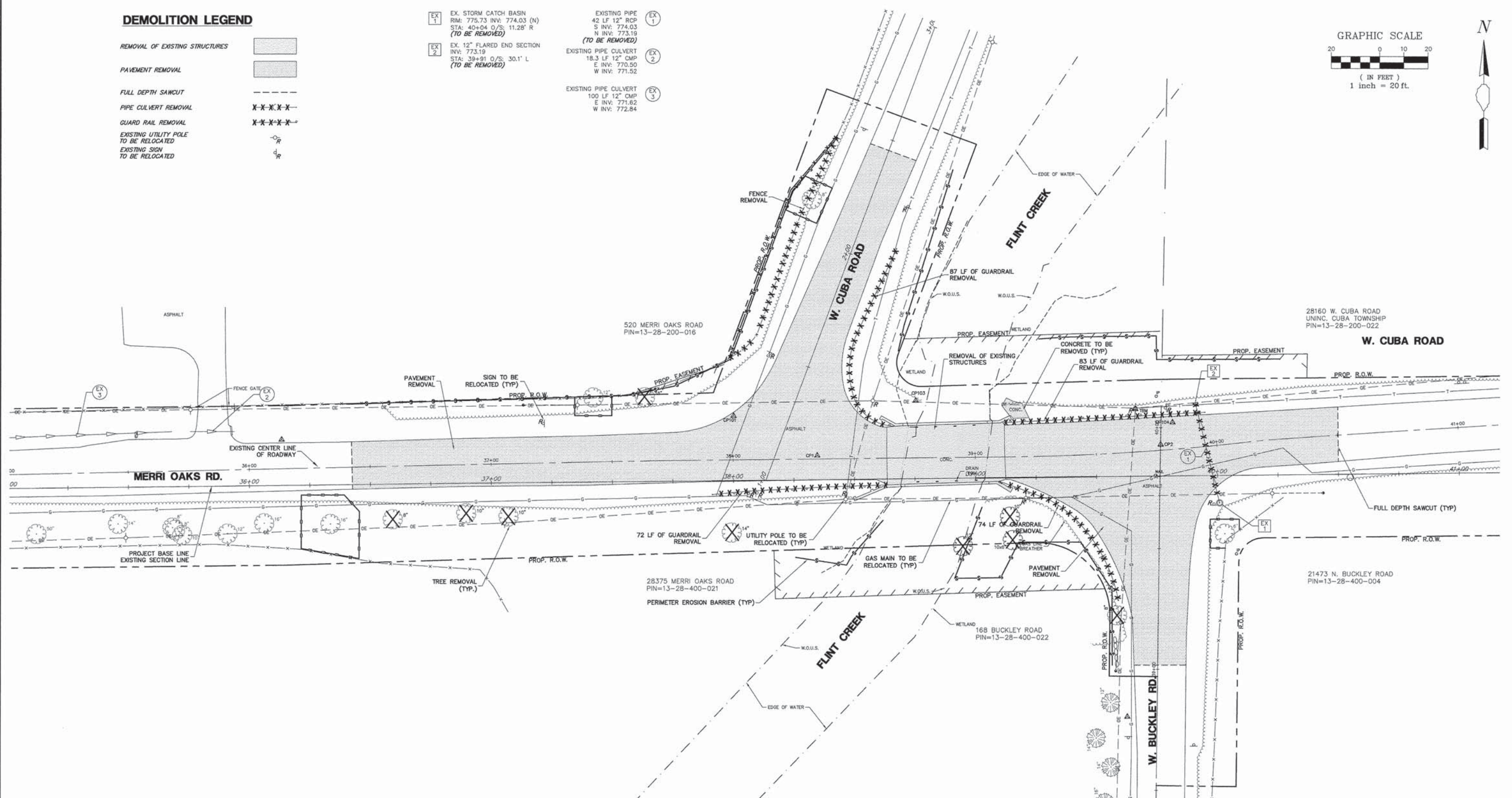
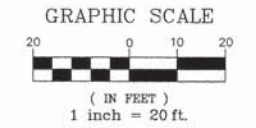
FAU. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	8
			CONTRACT #: 61B04	
ILLINOIS FED. AID PROJECT				



**DEMOLITION LEGEND**

- REMOVAL OF EXISTING STRUCTURES 
- PAVEMENT REMOVAL 
- FULL DEPTH SAWCUT 
- PIPE CULVERT REMOVAL 
- GUARD RAIL REMOVAL 
- EXISTING UTILITY POLE TO BE RELOCATED 
- EXISTING SIGN TO BE RELOCATED 

- EX 1 EX. STORM CATCH BASIN  
RIM: 775.73 INV: 774.03 (N)  
STA: 40+04 O/S: 11.28' R  
(TO BE REMOVED)
- EX 2 EX. 12" FLARED END SECTION  
INV: 773.19  
STA: 39+91 O/S: 30.1' L  
(TO BE REMOVED)
- EXISTING PIPE 42 LF 12" RCP  
S INV: 774.03  
N INV: 773.19  
(TO BE REMOVED)
- EXISTING PIPE CULVERT 18.3 LF 12" CMP  
E INV: 770.50  
W INV: 771.52
- EXISTING PIPE CULVERT 100 LF 12" CMP  
E INV: 771.62  
W INV: 772.84



**SUMMARY OF DRY UTILITIES**

	EXISTING EQUIPMENT	EQUIPMENT TO BE RELOCATED
AT&T CORPORATION	BURIED CABLE & OVERHEAD CABLE WITHIN PROJECT LIMITS	UTILITY POLES NORTH AND SOUTH OF EXISTING BRIDGE TO BE RELOCATED.
COMCAST	OVERHEAD CABLES ONLY	UTILITY POLES NORTH AND SOUTH OF EXISTING BRIDGE TO BE RELOCATED.
COMED	OVERHEAD LINES ONLY WITHIN PROJECT LIMITS	UTILITY POLES NORTH AND SOUTH OF EXISTING BRIDGE TO BE RELOCATED.
NICOR GAS	2" GAS MAIN SOUTH OF BRIDGE	GAS MAIN TO BE RELOCATED

FILE NAME = 4853.000-PR2.dwg	USER NAME = DAN STRAHAN	DESIGNED - DJS	REVISED - 10/17/14
		DRAWN - PJS	REVISED - 10/28/14
		CHECKED - DJS	REVISED - 12/15/14
		DATE - 9/26/14	REVISED - 1/14/15

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

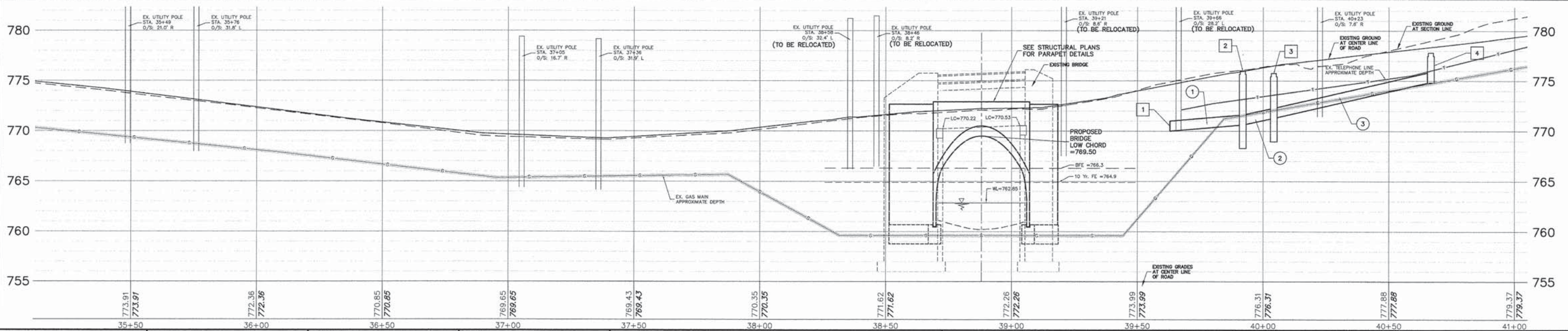
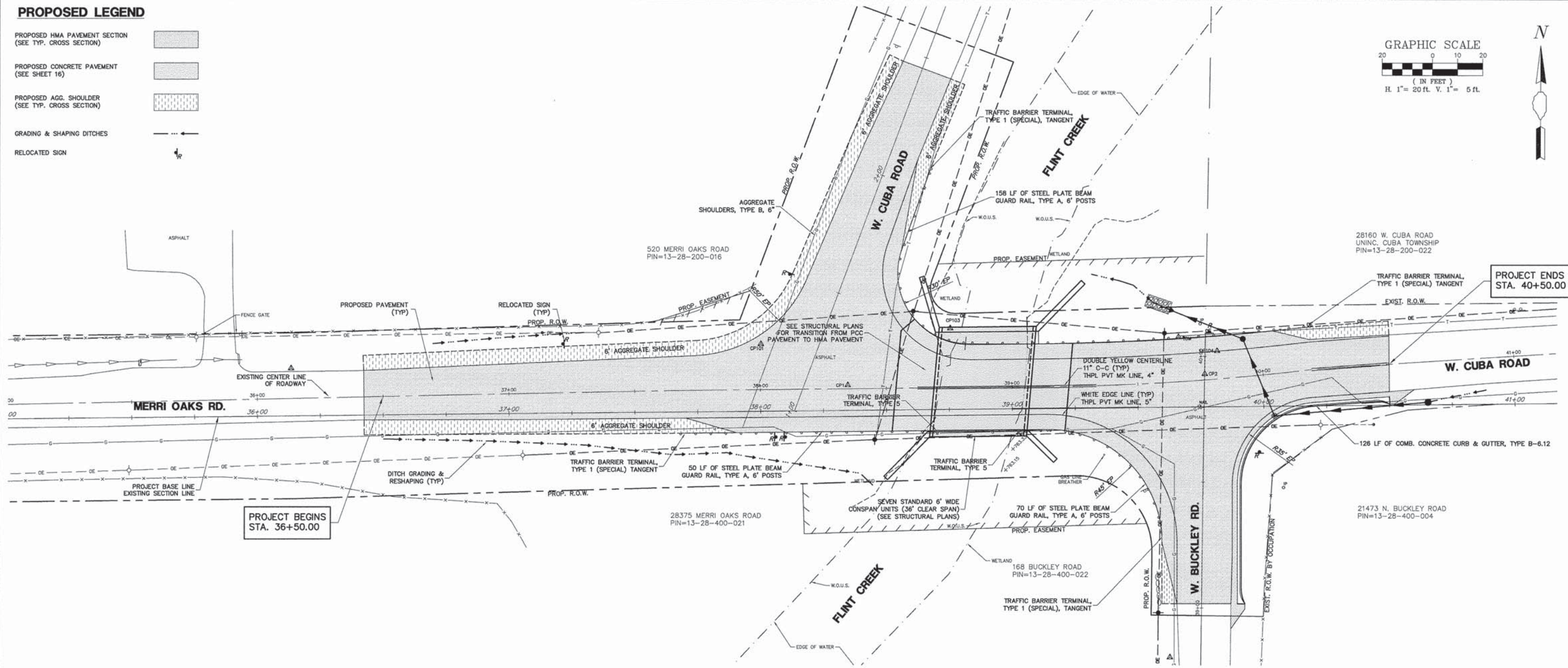
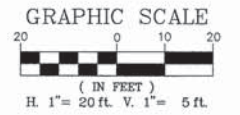
**EXISTING CONDITIONS / DEMOLITION PLAN  
CUBA ROAD BRIDGE RECONSTRUCTION**

SCALE 1"=20' SHEET NO. 1 OF 1 SHEETS STA. NA TO STA. NA

FAU. RTE. 1260	SECTION 12-00020-00-BR	COUNTY LAKE	TOTAL SHEETS 41	SHEET NO. 9
			CONTRACT #: 61B04	
ILLINOIS FED. AID PROJECT				

**PROPOSED LEGEND**

- PROPOSED HMA PAVEMENT SECTION  
(SEE TYP. CROSS SECTION)
- PROPOSED CONCRETE PAVEMENT  
(SEE SHEET 16)
- PROPOSED AGG. SHOULDER  
(SEE TYP. CROSS SECTION)
- GRADING & SHAPING DITCHES
- RELOCATED SIGN



FILE NAME = 4853.000-PR2.dwg

USER NAME = DAN STRAHAN	DESIGNED - DJS	REVISED - 10/17/14
PLOT SCALE = 1" = .08'	DRAWN - PJS	REVISED - 10/28/14
PLOT DATE = 05/25/2015	CHECKED - DJS	REVISED - 12/15/14
	DATE - 9/26/14	REVISED - 1/14/15

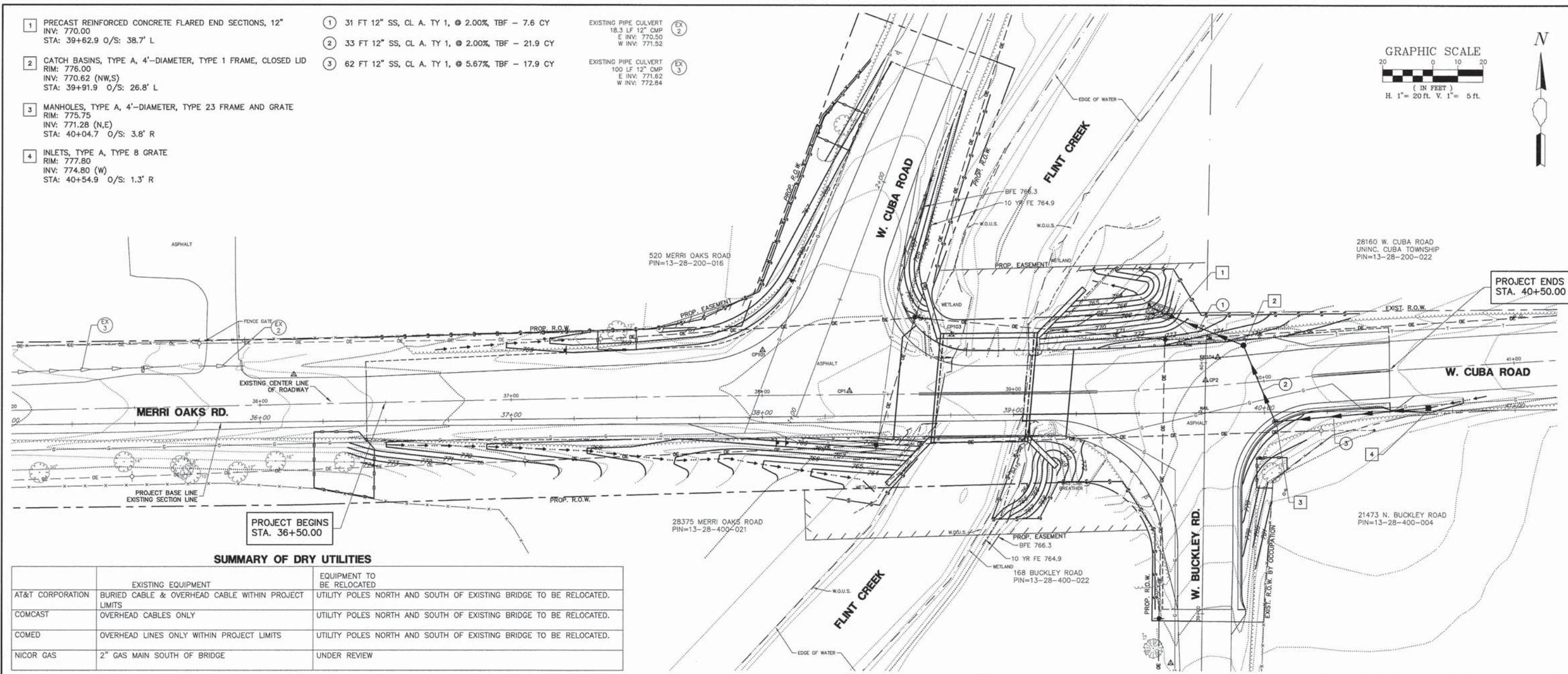
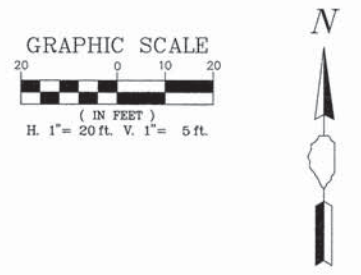
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN & PROFILE  
CUBA ROAD BRIDGE RECONSTRUCTION**

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	10
CONTRACT #:			61804	
ILLINOIS FED. AID PROJECT				

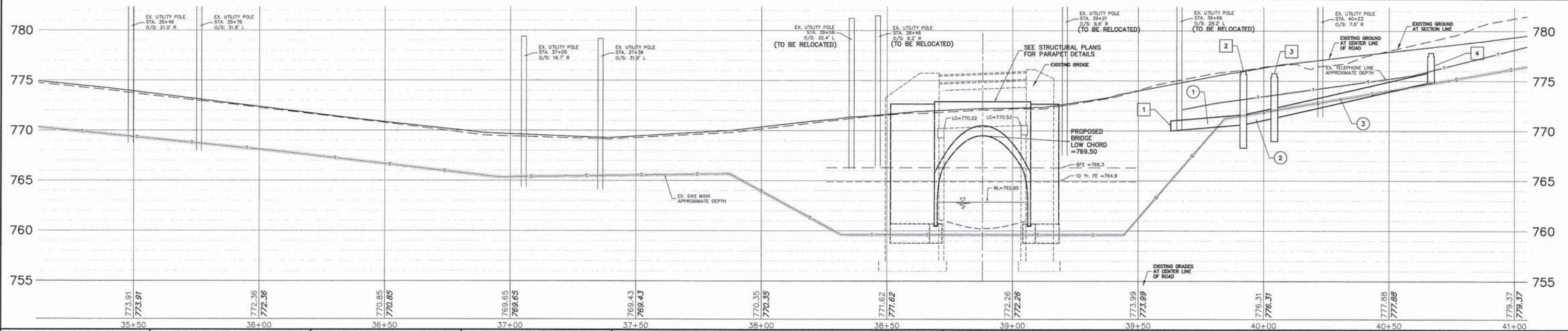
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. NA. TO STA. NA.

- 1 PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12" INV: 770.00 STA: 39+62.9 O/S: 38.7' L
  - 2 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID RIM: 776.00 INV: 770.62 (NW,S) STA: 39+91.9 O/S: 26.8' L
  - 3 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE RIM: 775.75 INV: 771.28 (N,E) STA: 40+04.7 O/S: 3.8' R
  - 4 INLETS, TYPE A, TYPE 8 GRATE RIM: 777.80 INV: 774.80 (W) STA: 40+54.9 O/S: 1.3' R
- 1 31 FT 12" SS, CL. A. TY 1, @ 2.00%, TBF - 7.6 CY
  - 2 33 FT 12" SS, CL. A. TY 1, @ 2.00%, TBF - 21.9 CY
  - 3 62 FT 12" SS, CL. A. TY 1, @ 5.67%, TBF - 17.9 CY
- EXISTING PIPE CULVERT  
18.3 LF 12" CMP  
E INV: 770.50  
W INV: 771.52
- EXISTING PIPE CULVERT  
100 LF 12" CMP  
E INV: 771.62  
W INV: 772.84



**SUMMARY OF DRY UTILITIES**

	EXISTING EQUIPMENT	EQUIPMENT TO BE RELOCATED
AT&T CORPORATION	BURIED CABLE & OVERHEAD CABLE WITHIN PROJECT LIMITS	UTILITY POLES NORTH AND SOUTH OF EXISTING BRIDGE TO BE RELOCATED.
COMCAST	OVERHEAD CABLES ONLY	UTILITY POLES NORTH AND SOUTH OF EXISTING BRIDGE TO BE RELOCATED.
COMED	OVERHEAD LINES ONLY WITHIN PROJECT LIMITS	UTILITY POLES NORTH AND SOUTH OF EXISTING BRIDGE TO BE RELOCATED.
NICOR GAS	2" GAS MAIN SOUTH OF BRIDGE	UNDER REVIEW



**LAKE COUNTY STORMWATER MANAGEMENT COMMISSION  
SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES**

- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
  - UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
  - AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- I. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
- M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

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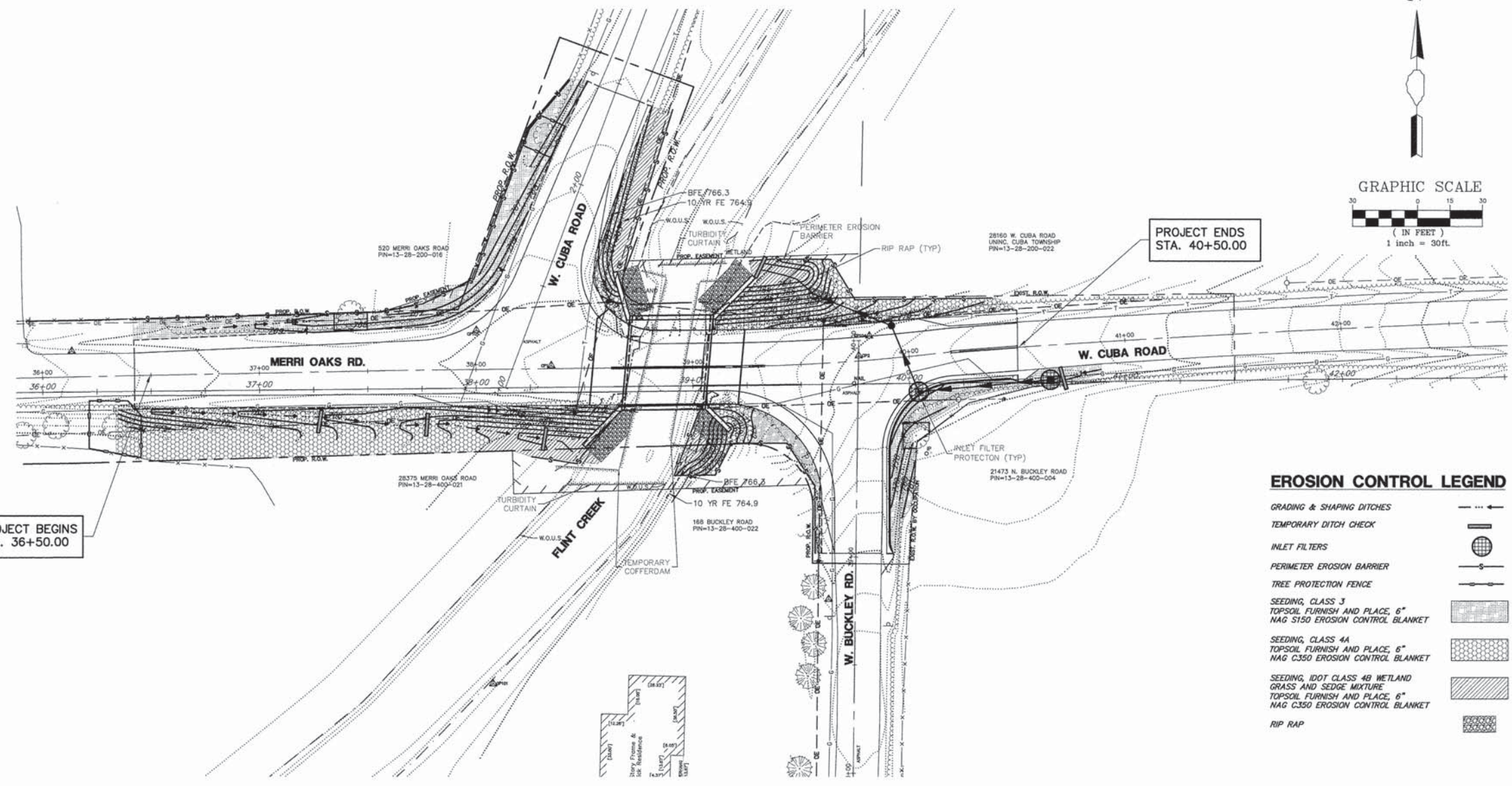


**STORMWATER MANAGEMENT COMMISSION**

**TYPICAL CONSTRUCTION SEQUENCING**

- 1.) Installation of soil erosion and sediment control SE/SC measures
    - a.) Selective vegetation removal for silt fence installation
    - b.) Silt fence installation
    - c.) Construction fencing around areas not to be disturbed
    - d.) Stabilized construction entrance
  - 2.) Tree removal where necessary (clear & grub)
  - 3.) Construct sediment trapping devices (sediment traps, basins...)
  - 4.) Construct detention facilities and outlet control structure with restrictor & temporary perforated riser
  - 5.) Strip topsoil, stockpile topsoil and grade site
  - 6.) Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)
  - 7.) Install storm sewer, sanitary sewer, water and associated inlet & outlet protection
  - 8.) Permanently stabilize detention basins with seed and erosion control blanket
  - 9.) Temporarily stabilize all areas including lots that have reached temporary grade
  - 10.) Install roadways
  - 11.) Permanently stabilize all outlet areas
  - 12.) Install structures and grade individual lots
  - 13.) Permanently stabilize lots
  - 14.) Remove all temporary SE/SC measures after the site is stabilized with vegetation
- \* Soil erosion and sediment control maintenance must occur every two weeks and after every 1/2 or greater rainfall event

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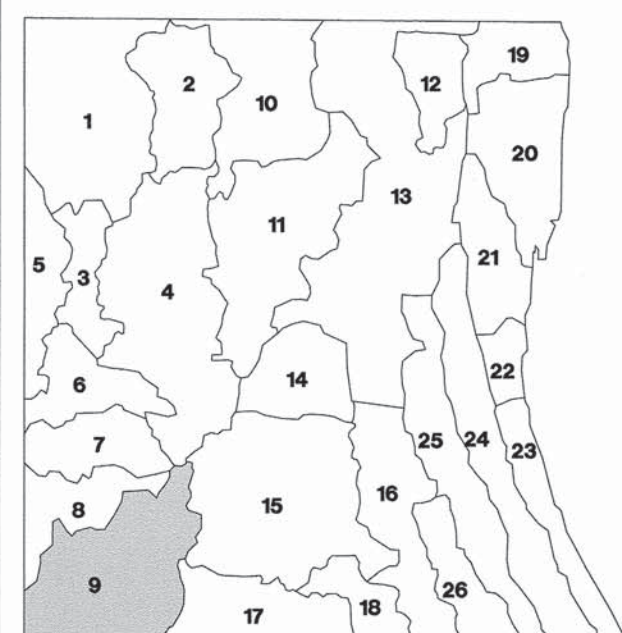
PROJECT BEGINS  
STA. 36+50.00

PROJECT ENDS  
STA. 40+50.00

**EROSION CONTROL LEGEND**

- GRADING & SHAPING DITCHES
- TEMPORARY DITCH CHECK
- INLET FILTERS
- PERIMETER EROSION BARRIER
- TREE PROTECTION FENCE
- SEEDING, CLASS 3  
TOPSOIL FURNISH AND PLACE, 6" NAG S150 EROSION CONTROL BLANKET
- SEEDING, CLASS 4A  
TOPSOIL FURNISH AND PLACE, 6" NAG C350 EROSION CONTROL BLANKET
- SEEDING, IDOT CLASS 4B WETLAND GRASS AND SEDGE MIXTURE TOPSOIL FURNISH AND PLACE, 6" NAG C350 EROSION CONTROL BLANKET
- RIP RAP

**DRAINAGE BASINS OF LAKE COUNTY**



- I. FOX RIVER WATERSHED
  1. UPPER FOX RIVER
  2. SEQUOIA CREEK
  3. FISH LAKE DRAIN
  4. SQUAW CREEK
  5. LOWER FOX RIVER
  6. MUTTON CREEK
  7. SLOOUM LAKE DRAIN
  8. TOWER LAKE DRAIN
  9. FLINT CREEK
- II. DES PLAINES RIVER WATERSHED
  10. NORTH MILL CREEK
  11. MILL CREEK
  12. NEWPORT DRAINAGE DITCH
  13. UPPER DES PLAINES RIVER
  14. BULL CREEK
  15. INDIAN CREEK
  16. LOWER DES PLAINES RIVER
  17. BUFFALO CREEK
  18. APTAKISIC CREEK
- III. LAKE MICHIGAN WATERSHED
  19. KELLOGG CREEK
  20. DEAD RIVER
  21. WAUKEGAN RIVER
  22. PETTIBONE CREEK
  23. BLUFF / RAVINE
- IV. CHICAGO RIVER WATERSHED
  24. SKOKIE RIVER
  25. MIDDLE FORK
  26. WEST FORK

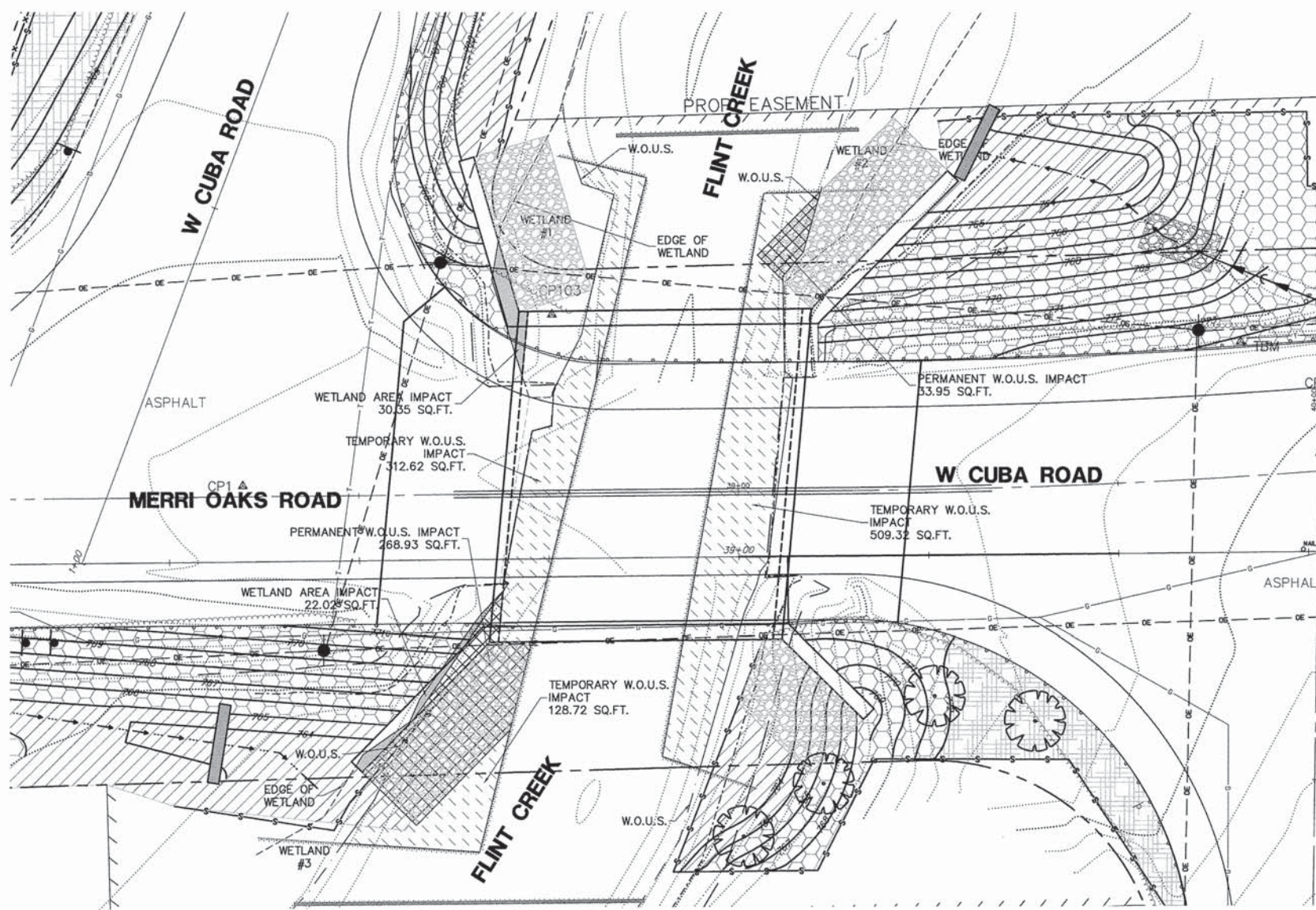
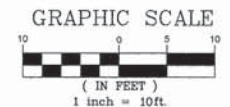
Stabilization Type:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Seeding, Class 3			A			X	X	X				
Seeding, Class 4A				B		X	X	X	X	X	X	X
Seeding, Class 4B				C		X	X	X	X	X	X	X
Temporary Seeding			D			X	X	X	X	X		
Mulching			E									

A = SEEDING, CLASS 3  
 B = SEEDING, CLASS 4A  
 C = SEEDING, CLASS 4B  
 D = SPRING OATS @ 100 LBS/AC.  
 E = STRAW MULCH (HYDROMULCH OR USE STRAW BLANKET) @ 2 TONS/AC.  
 XXX = IRRIGATION NEEDED  
 IRRIGATION SHOULD BE PROVIDED AS NECESSARY TO THOROUGHLY ESTABLISH INTENDED GROWTH.  
 NOTE: SPRAYED ON PRODUCTS CANNOT BE USED NOV.-FEB.

**TYPICAL SOIL PROTECTION CHART**

FILE NAME = 4853.000-PR2.dwg	USER NAME = DAN STRAHAN	DESIGNED - DJS	REVISED - 10/17/14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL EROSION AND SEDIMENT CONTROL PLAN CUBA ROAD BRIDGE RECONSTRUCTION</b>	SCALE 1"=30'	SHEET NO. 1 OF 1 SHEETS	STA. NA	TO STA. NA	FAU. RTE. 1260	SECTION 12-00020-00-BR	COUNTY LAKE	TOTAL SHEETS 41	SHEET NO. 12		
	PLOT SCALE = 1" = .08'	DRAWN - PJS	REVISED - 10/28/14													
	PLOT DATE = 05/25/2015	CHECKED - DJS	REVISED - 12/15/14													
		DATE - 9/26/14	REVISED - 1/14/15													

ILLINOIS FED. AID PROJECT



**10 YEAR FLOOD PLAIN = 764.9  
CREEK WATER LEVEL = 762.85**

**IDOT Class 4B Wetland Grass & Sedge Mixture**  
 Annual Ryegrass 25 lbs. / acre  
 Spring Oats 25 lbs. / acre  
 Wetland Grasses (below) 6 lbs. / acre  
 56 lbs. / acre

Wetland Grasses:	% by Weight
Species	12%
Blue Joint Grass	6%
Lake-Bank Sedge	6%
Awl-Fruited Sedge	6%
Tussock Sedge	6%
Fox Sedge	6%
Needle Spike Rush	3%
Blunt Spike Rush	3%
Fowl Manna Grass	14%
Common Rush	6%
Slender Rush	6%
Torrey's Rush	6%
Rice Cut Grass	10%
Hard-Stemmed Bulrush	3%
Dark Green Rush	3%
River Bulrush	3%
Softstem Bulrush	3%
Cord Grass	4%

**NATIVE SEED SPECIFICATIONS**

**OPTIMUM SEEDING TIME:**  
 SEED, CLASS 3  
 4/1 - 6/15 &  
 8/1 - 11/1

SEED, CLASS 4A & 4B  
 5/15 - 6/30 &  
 10/15 - 12/1

SURROUNDING SOILS MUST BE STABILIZED BEFORE SEEDING. TOPSOIL, PEAT, COMPOST AND/OR BLACK DIRT SHALL BE INCORPORATED INTO THE SUBSTRATE BEFORE PLANTING IF THE SOIL IS HEAVY OR NUTRIENT POOR.

SEEDBED PREPARATION - EXISTING VEGETATIVE GROWTH SHOULD BE REMOVED OR KILLED WITH HERBICIDES. SURFACE TILL THE SEEDBED TO A DEPTH OF 2" TO 4". IF THE GROUND IS WET, DELAY TILLING UNTIL THE SOIL DRIES ENOUGH TO BREAK APART WHEN TILLED. LIGHTLY COMPACT THE TILLED SOIL WITH A ROLLER, CULTIVATOR, OR SIMILAR IMPLEMENT. TILLING CAN USUALLY BE OMITTED IF USING A NO-TILL SEED DRILL.

SOW SEED BY HAND OR WITH A BROADCASTER AND PRESS INTO THE SOIL WITH A ROLLER, CULTIPACKER, OR SIMILAR IMPLEMENT. DO NOT COVER SEED MORE THAN 1/4" DEEP. VERY LIGHT RAKING IS AN ACCEPTABLE ALTERNATIVE, BUT BE CAREFUL NOT TO COVER SEED MORE THAN 1/4" DEEP. IF NOT ALREADY INCLUDED IN THE SEED MIX, PLANT A COVER CROP OF SEED OATS AT 32 POUNDS PER ACRE AND ANNUAL RYE AT 10 POUNDS PER ACRE WITH THE SEED. IF USING A NO-TILL SEED DRILL, FOLLOW THE MANUFACTURER'S RECOMMENDATIONS, BEING CAREFUL TO NOT COVER THE SEED MORE THAN 1/4" DEEP.

WINTER SOWING  
 SOW WET AND DRY-PACKAGED SEED IN THE ZONES AS DESCRIBED ABOVE DIRECTLY ON BARE GROUND DURING A WINTER THAW, OR OLD, FROZEN SNOW. DO NOT APPLY TO LOOSE, NEWLY-FALLEN SNOW DUE TO THE POTENTIAL FOR WIND LOSS. NORMAL FREEZING AND THAWING WILL CREATE OPENINGS IN THE GROUND, ALLOWING THE SEED TO WORK ITS WAY NATURALLY INTO THE SOIL. THE SEED WILL BE IN PLACE TO GERMINATE WHEN CONDITIONS ARE RIGHT IN THE SPRING.

WATERING  
 NEWLY SEEDED AREAS SHOULD RECEIVE THE EQUIVALENT OF ONE INCH OF WATER PER WEEK THROUGHOUT CONSTRUCTION, EITHER VIA RAINFALL OR IRRIGATION. DO NOT PULL WEEDS WHILE SEED IS GERMINATING AND SEEDLINGS ARE ESTABLISHING.

**NOTES**

1. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
2. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.

**WETLAND IMPACT LEGEND**

- WETLAND IMPACT TOTAL AREA - 52.37 SQ.FT.
- PERMANENT W.O.U.S. IMPACT TOTAL AREA - 302.88 SQ.FT.
- TEMPORARY W.O.U.S. IMPACT TOTAL AREA - 950.66 SQ.FT.
- IDOT CLASS 4B WETLAND GRASS & SEDGE MIXTURE
- IDOT LOW PROFILE CLASS 4A NATURE SEED MIX
- IDOT CLASS 3 SEED MIX

FILE NAME = 4853.000-PR2.dwg

USER NAME = DAN STRAHAN

DESIGNED - DJS

REVISED - 10/17/14

DRAWN - PJS

REVISED - 10/28/14

PLOT SCALE = 1" = .08'

CHECKED - DJS

REVISED - 12/15/14

PLOT DATE = 01/19/2015

DATE - 9/26/14

REVISED - 1/14/15

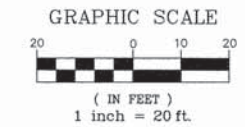
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WETLAND IMPACT AREA  
CUBA ROAD BRIDGE RECONSTRUCTION**

SCALE 1"=30' SHEET NO. 1 OF 1 SHEETS STA. NA TO STA. NA

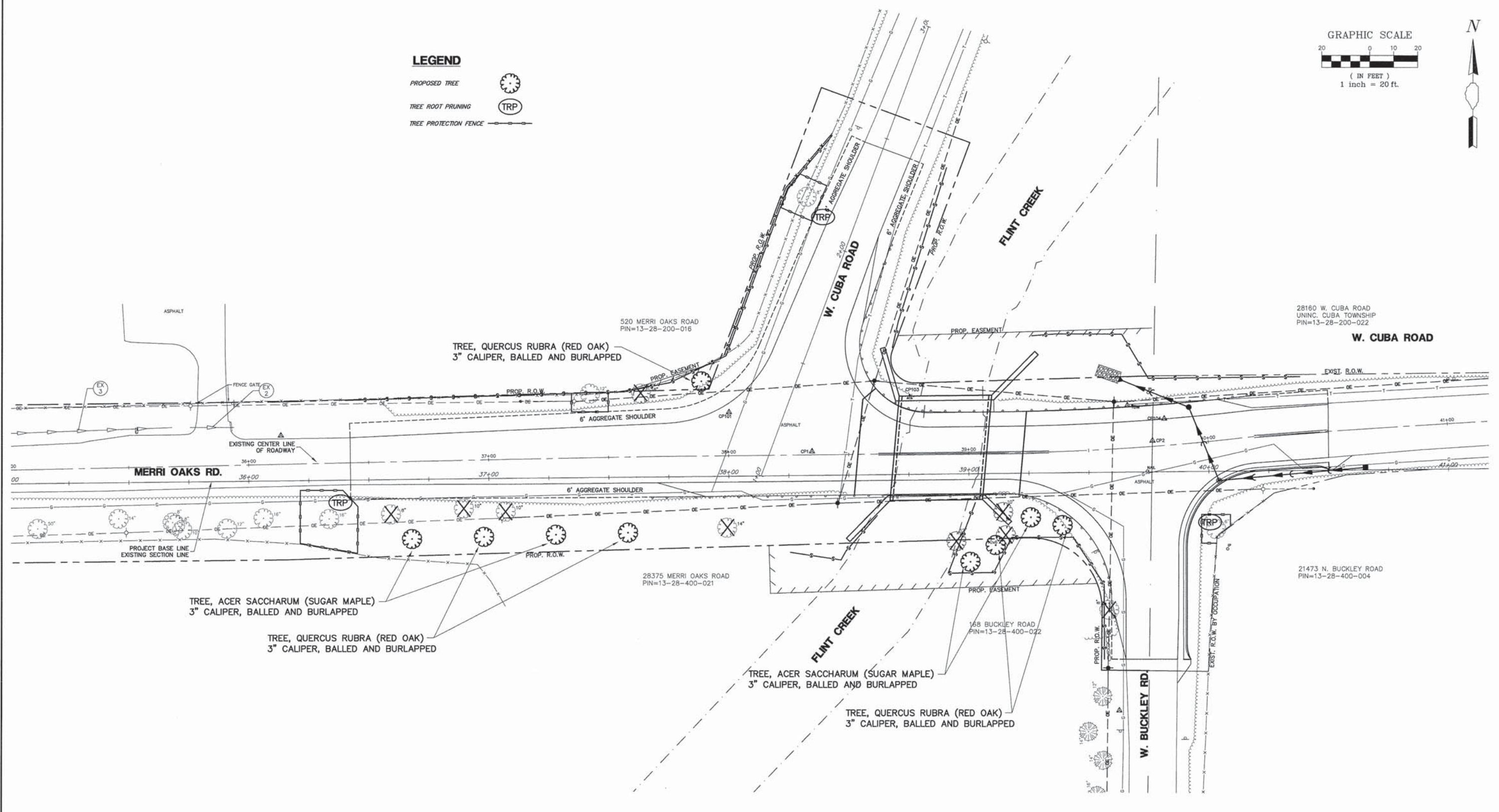
FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	13
CONTRACT #:			61804	

ILLINOIS FED. AID PROJECT



**LEGEND**

- PROPOSED TREE
- TREE ROOT PRUNING
- TREE PROTECTION FENCE



FILE NAME = 4853.000-PR2.dwg  
 USER NAME = DAN STRAHAN  
 PLOT SCALE = 1" = .08"  
 PLOT DATE = 09/25/2015

DESIGNED - DJS  
 DRAWN - PJS  
 CHECKED - DJS  
 DATE - 9/26/14

REVISED - 10/17/14  
 REVISED - 10/28/14  
 REVISED - 12/15/14  
 REVISED - 1/14/15

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TREE PRESERVATION AND REPLACEMENT PLAN  
 CUBA ROAD BRIDGE RECONSTRUCTION**

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	14
CONTRACT #:				61804
ILLINOIS FED. AID PROJECT				

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

CONCRETE NOTES

1. Reinforcing bars shall conform to the requirements of AASHTO A706, Grade 60.
2. Reinforcing bars designated (E) shall be epoxy-coated according to AASHTO M284. Damage to the epoxy coating during handling, placement, etc., shall be repaired with a compatible epoxy.
3. All accessories, including bolsters, chairs, tie wire, etc., used to tie or support the epoxy-coated bars shall be epoxy-coated.
4. Structural Concrete: Concrete shall be IDOT Class SI having a minimum compressive strength (fc) of 3500 psi at 14 days. The concrete mix shall have an air content between 5 and 8 percent of the volume of the concrete. The Contractor shall submit concrete mix designs to the Engineer for approval.
5. The Contractor shall use a form lined textured surface when casting the headwalls/parapets for this project. The selected textured surface, approved by the Engineer, shall match as close as possible to a stacked stone masonry pattern as presented in the Special Provisions.
6. Wingwall surfaces shall not be textured.
7. The back face of the wingwalls shall be waterproofed according to Article 503.18 of the Standard Specifications.
8. The Contractor shall make allowance for the lateral deflection of forms, shrinkage and settlement of falsework or braces, in addition to allowance for deadload deflection, as applicable.
9. Design and construction of formwork shall be the responsibility of the Contractor and shall be performed in accordance with ACI 347 and the Standard Specifications.

DEMOLITION NOTES

1. The Contractor shall exercise care with demolition activities on the existing foundation. Vibrations from demolition of concrete in direct contact with the ground may be too excessive for the buried gas line and shall be avoided.
2. The Contractor may elect to sawcut or otherwise partition the existing concrete abutment footings for removal from the excavation area. Concrete break-up and disposal would be performed away from the existing utilities to avoid damage. This work activity will not be paid for separately, but shall be considered incidental to the concrete removal cost.
3. Sound and rotted timber pile tops, if encountered, shall be trimmed to below the new bottom of pile cap elevation to prevent load transfer.
4. The extent of the demolition work is as shown on and reasonably inferable from the drawings. Provide for off-site disposal of all demolished material.
5. The existing name plate shall be salvaged and furnished to the engineer. Cost included with Name Plates.

MOISTURE PROTECTION

1. Construction joints designated on the drawings will be filled with a 2-component sealant supported by closed cell foam backer rod. The joint sealant is specific for the joint to be sealed, as follows:
  - a. Polysulfide Sealant: Use for buried joints or where long-term water exposure is anticipated. Color shall be black.
  - b. Polyurethane Sealant: Architectural joint sealant for exposed-to-view surfaces. Color shall match the substrate.
  - c. Refer to Special Provisions for additional information on joint sealant.
2. Joint sealant used to seal joints in the three-sided precast structure segments shall be included with the Three-Sided Precast Structures pay item.
3. Joint sealant shall be applied as specified in the construction plans and as determined by the Engineer.
4. Designated concrete surface shall be coated with a silane surface sealer. The sealer shall be isobutyl trimethoxy silane in a 40% solids solution of anhydrous isopropyl alcohol. Surfaces to receive silane include the concrete pavement, precast concrete rail caps, cast-in-place concrete headwalls/parapet, and wingwalls.
5. The silane surface sealer shall be used as an alternate to the Department's protective coat requirements.

EPOXY-GROUTED DOWELS

1. All drilled-in reinforcing bar dowels shall be set with an IDOT pre-qualified epoxy adhesive grouting material meeting the requirements of the Standard Specifications. Reinforcing bars to be epoxy-grouted may be epoxy coated, as shown on the plans.
2. Following drilling, anchor holes shall be thoroughly cleaned with oil-free and moisture-free compressed air, using a nozzle extended to the bottom of the hole, and supplemented with a permitted to dry. Core-drilled holes shall be flushed with clean water immediately following drilling, blown out with compressed air, and brushed as necessary to remove all dust and loose material.
3. Unless otherwise indicated, adhesive or grout shall be placed through a tube or gun extension, beginning at the maximum depth of the hole and withdrawn as adhesive is pumped, followed by insertion of the anchor to the specified depth. Spaces around anchors at the surface shall be sealed at vertical and overhead locations where necessary to prevent escape of the adhesive during curing.
4. Epoxy-grouted reinforcing bars shall not be bent after being embedded in hardened, sound concrete unless permitted by the Engineer.

THREE-SIDED PRECAST CONCRETE STRUCTURE

1. The Three-Sided Precast Concrete Structure shall be designed according to AASHTO for an HL93 load and shall include the effects of unyielding foundation conditions for the sequence of construction anticipated. Design to be sealed by an Illinois Licensed Structural Engineer.
2. Precast units shall be constructed and installed in accordance with the manufacturer's specifications. Details shown are for the Con/Span B-Series Precast Arch System. The Contractor may use a precast arch from another supplier, subject to approval - See Special Provision.
3. Precast concrete for the segments shall be IDOT Class PC and shall have a minimum compressive strength of 4500 psi.
4. All joints between segments shall be sealed and waterproofed, according to the drawings and Special Provision. This cost shall be included with the Three-Sided Precast Structures cost.
5. As a precaution against introducing unbalanced stresses in the precast unit and wingwalls, when placing backfill at no time shall the difference between the heights of fill on opposite sides of the precast unit exceed 24 inches. Backfill against a waterproofed surface shall be placed carefully to avoid damage to the waterproofing material and geocomposite wall drain.
6. The headwalls/parapets can be precast. Contractor to provide shop drawings and calculations sealed by an Illinois Licensed Structural Engineer.
7. This work will be paid for at the contract unit price per foot for THREE-SIDED PRECAST CONCRETE STRUCTURES of the size specified. This price will be payment in full for all precast units, porous granular bedding material, and excavation, except rock excavation. The cost of all cast-in-place wingwalls, headwalls, and footings will not be included in this item but will be paid for separately.
8. All connecting hardware and inserts to be stainless steel.

SUBBASE/BACKFILL

1. Subbase calculated assuming an average thickness of 8 1/4" with minimum thickness = 0" and maximum thickness = 12".
2. Costs for backfilling to the limit of Critical Backfill Zone (C.B.Z.) are included with the costs of Three-Sided Precast Concrete Structures.
3. Porous granular embankment (PGE) Special is to be used as backfill at wing walls. Costs for PGE backfill to be included with concrete structures.
4. Embankment required to achieve proposed grade to be PGE Special paid at CY measured.

REFERENCE STANDARDS

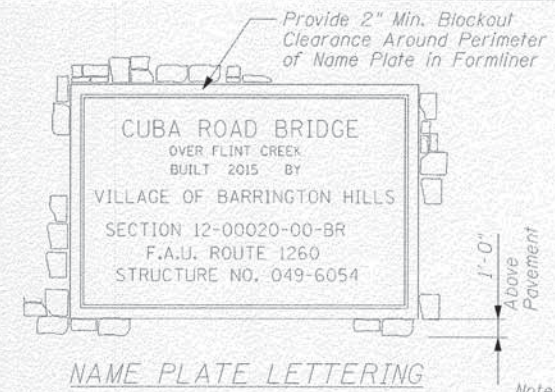
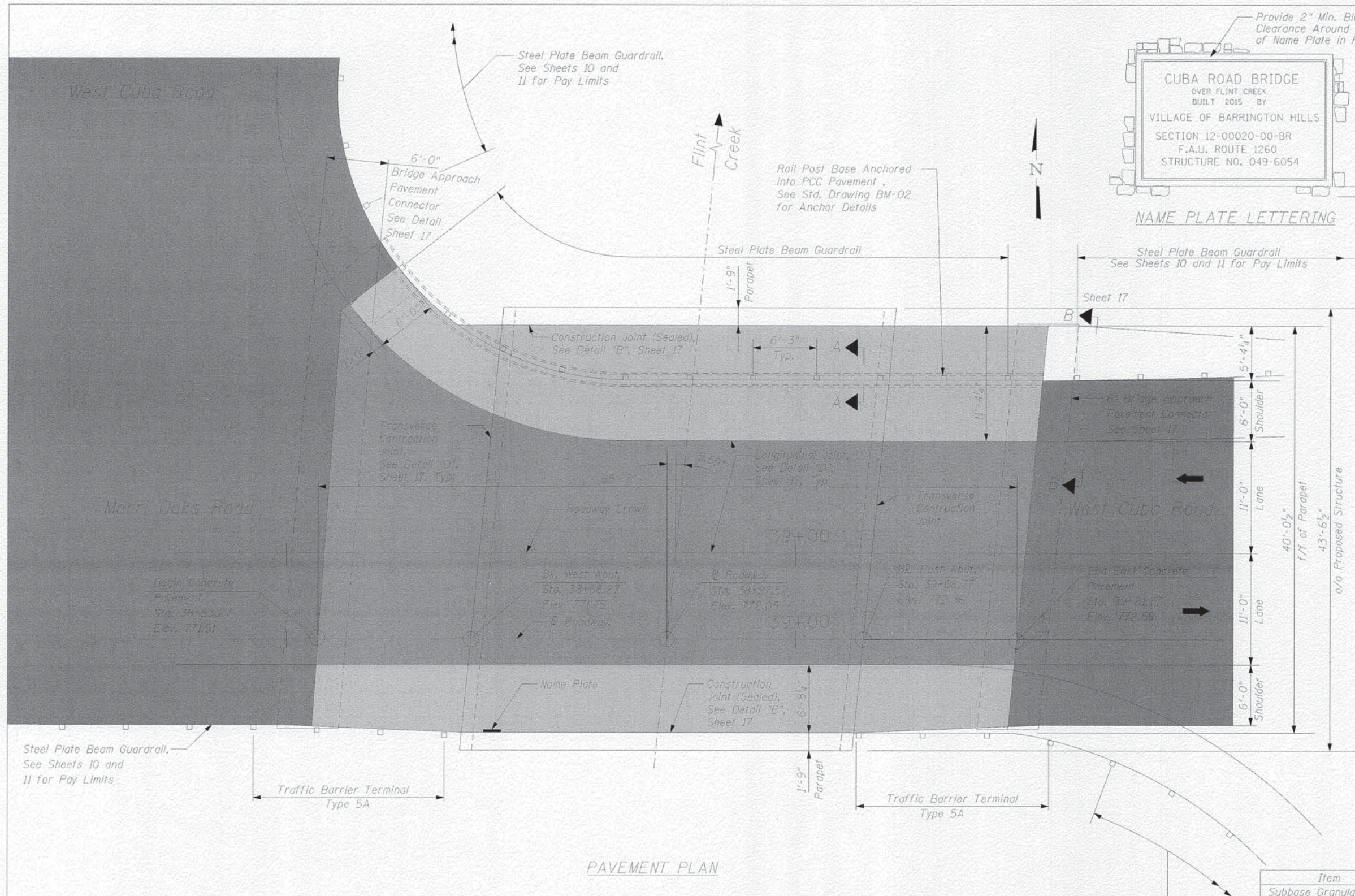
1. Illinois Department of Transportation (IDOT)
  - a. Standard Provisions for Road and Bridge Construction (Adopted January 1, 2012)
  - b. Supplemental Specifications and Recurring Special Provisions (Adopted January 1, 2014)
  - c. Highway Standards
2. American Association of State Highway and Transportation Officials (AASHTO)
  - a. Standard Specifications for Highway Bridges
  - b. Standard Specifications for Transportation Materials and Methods of Sampling and Testing
  - c. Bridge Welding Code (ANSI/AASHTO/AWS D1.5)
3. American Institute of Steel Construction (AISC)
  - a. Code of Standard Practice for Steel Buildings and Bridges

DESIGN DATA

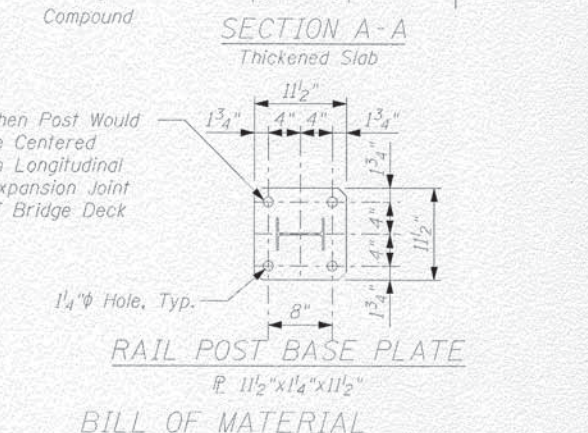
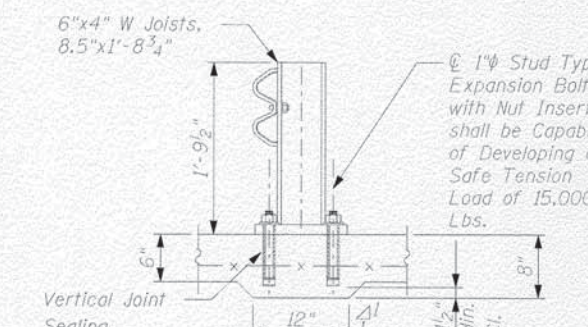
Design Loading: HL-93  
Design Method: LRFD Per AASHTO Specifications



Wiss, Janney, Elstner Associates, Inc. Engineers, Architects, Material Scientists 330 Pfingsten Road, Northbrook, IL 60062 (847) 272-7400, Fax: (847) 291-4813 WJE No. 2011.51550	USER NAME = IGHOBRIAL	DESIGNED SLL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST CUBA ROAD BRIDGE REPLACEMENT GENERAL NOTES STRUCTURE NO. 049-6054			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = NOT TO SCALE	CHECKED JCM	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	1260	12-00020-00-BR	LAKE	41	15
	PLOT DATE = 12/15/2014	DATE 12/12/2014	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61B04						



**Note:**  
 For Details of rail elements, rail splice, nut, bolt and side view of rail, See IDOT Std. 2230-2.  
 All welds shall be ground smooth.  
 Posts shall be cut and welded to the base plate so that the post will be plumb when erected.  
 Two percent (2%) of all anchor bolts shall be test loaded in place, minimum test loads = 8 kips. If one anchor bolt fails during load test, two other anchor bolts shall be tested in that same connection. Load test to be witnessed by Engineer.  
 Provide 1/8" and 2/16" galvanized shim for 25% of the posts.



**BILL OF MATERIAL**

Item	Unit	Quantity
Subbase Granular Material, Type B, Varies	Sq. Yd.	3050
Bridge Approach Pavement Connector (Flexible)	Sq. Yd.	59
Cont. Reinforced Portland Cement Concrete Pavement, 8"	Sq. Yd.	182
Pavement Reinforcement	Sq. Yd.	182
Portland Cement Concrete Pavement	Sq. Yd.	127
Pavement Fabric, 6"	Sq. Yd.	127
Silane Surface Sealer	Sq. Yd.	309
Preformed Joint Filler	Foot	77
Bridge Name plate	Each	1
Joint Sealant	Foot	289
Steel Plate Beam Guard Rail	Foot	67
Traffic Barrier Terminal, Type 5A	Each	2
Geotechnical Fabric For Ground Stabilization	Sq. Yd.	193

Notes: For Bridge Cross Sections, Bridge Approach Pavement Connector, Sealant Details, Detail "B", Detail "D" and Partial Section B-B, See Sheet 17.

**PAVEMENT PLAN**

**LEGEND:**

	Bituminous Pavement
	New CRC Pavement 8"
	New PCC Pavement 6"



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 330 Pfingsten Road, Northbrook, IL 60062  
 (847) 272-7400, Fax: (847) 291-4813  
 WJE No. 2011.5195.0

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PLOT DATE = 12/14/2014	CHECKED JCM	REVISED -
	DATE 12/12/2014	REVISED -

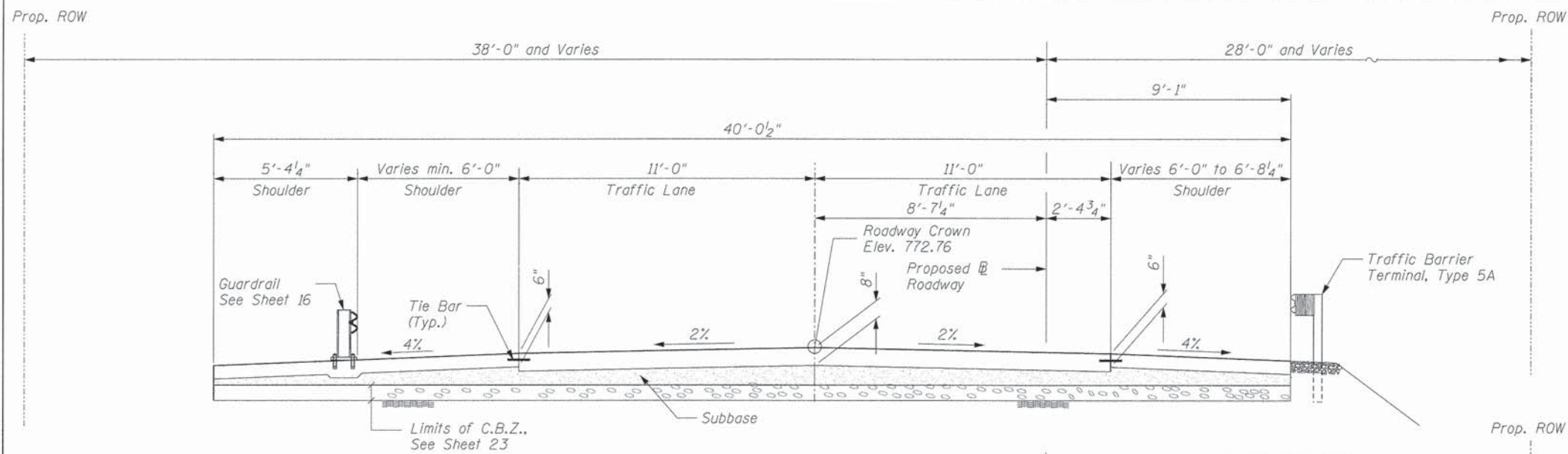
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**WEST CUBA ROAD BRIDGE REPLACEMENT  
 BRIDGE PAVEMENT PLAN  
 STRUCTURE NO. 049-6054**

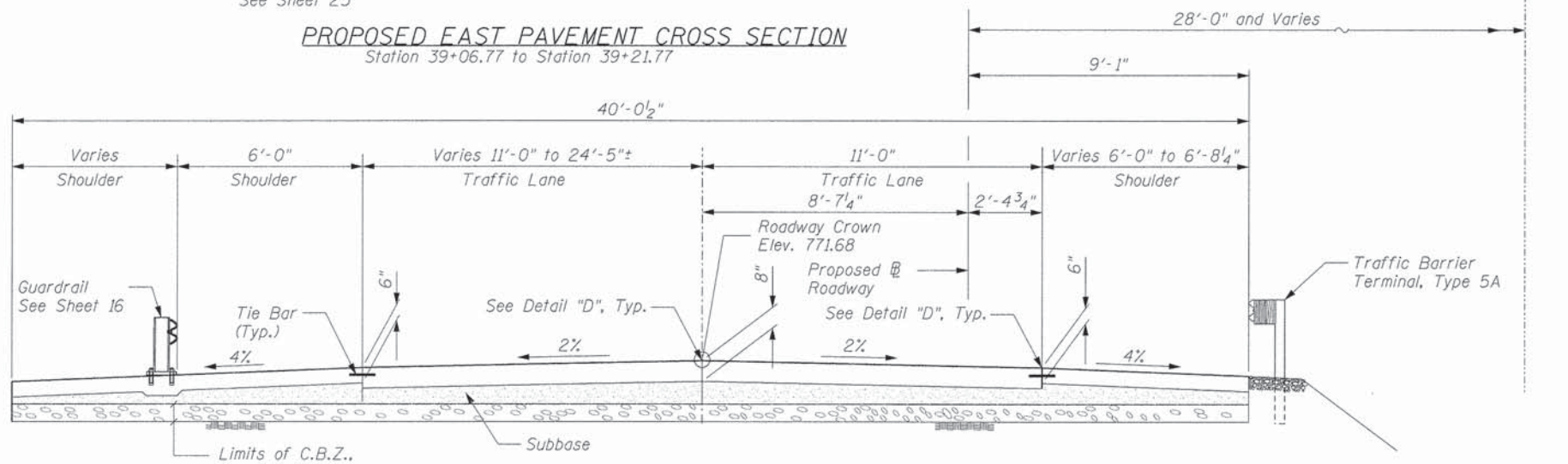
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B04	

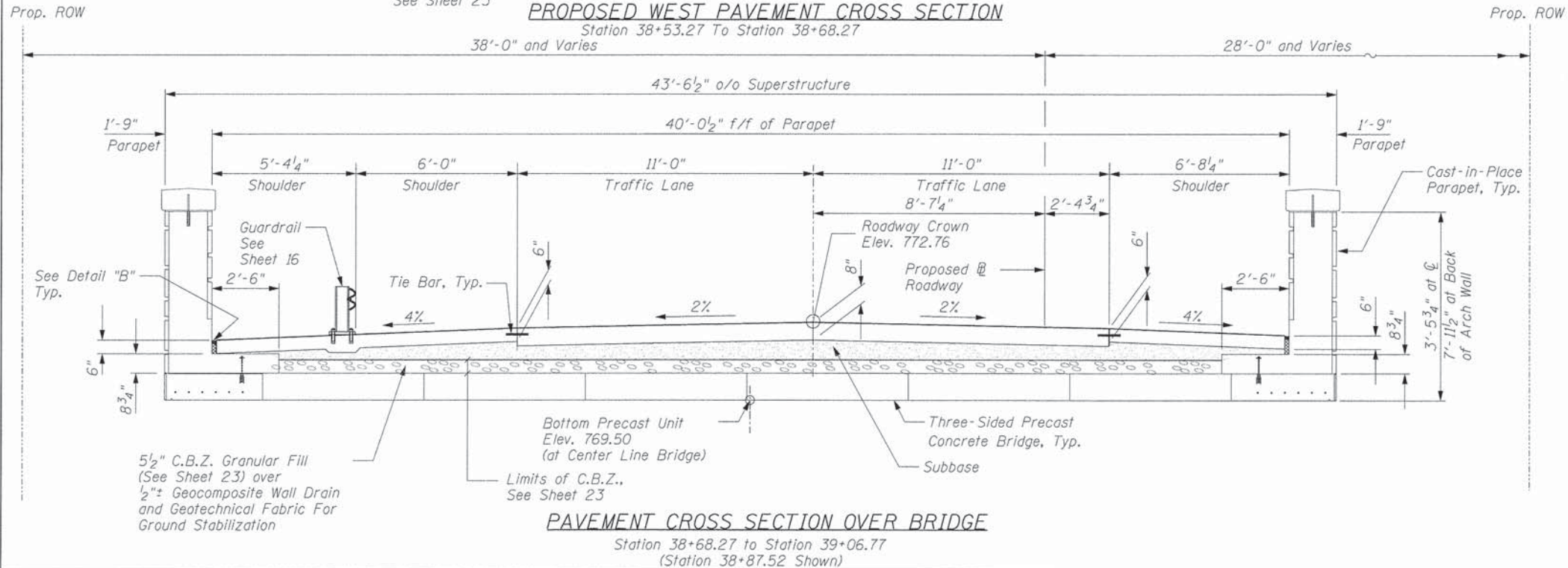




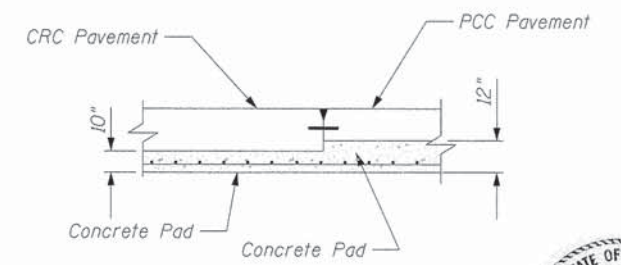
**PROPOSED EAST PAVEMENT CROSS SECTION**  
Station 39+06.77 to Station 39+21.77



**PROPOSED WEST PAVEMENT CROSS SECTION**  
Station 38+53.27 To Station 38+68.27



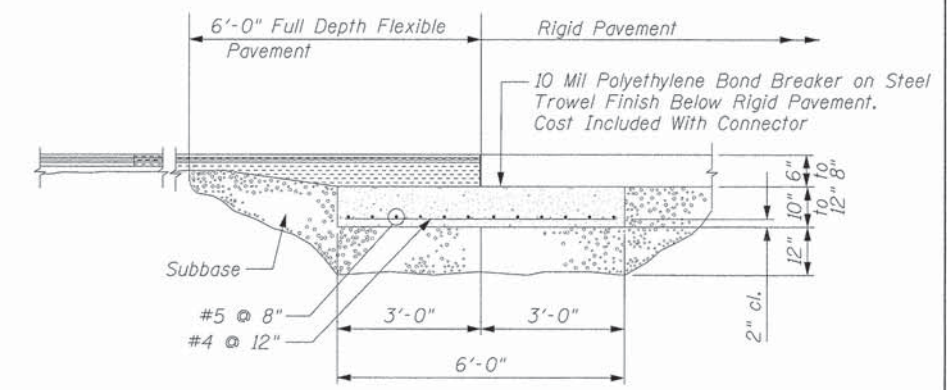
**PAVEMENT CROSS SECTION OVER BRIDGE**  
Station 38+68.27 to Station 39+06.77  
(Station 38+87.52 Shown)



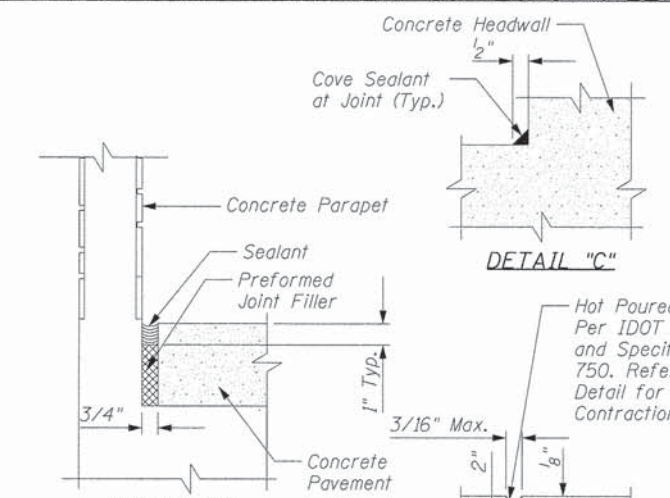
**PARTIAL SECTION B-B**



- Notes:
1. Refer to IDOT Std. Drawing 92/101-09 for CRC Pavement Details.
  2. For CRC Pavement Reinforcement Details use IDOT Std. Drawing 42 1001-02 Adjusted for 11' Lane.
  3. Refer to IDOT Std. Drawing 42 0601-05 for PCC Pavement Details.
  4. For PCC Pavement Fabric Reinforcement Details, use IDOT Std. Drawings 420701-02



**BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)**



**DETAIL "C"**

**DETAIL "B"**

**DETAIL "D"**

Tie Bar, No. 6 At 30" Long On 24" Centers Positioned 3" From Top. Costs To Be Included With PCCP Pavement. Refer To Longitudinal Construction Joint On IDOT Std. Dwg. 420001-08.

**SEALANT DETAILS**

**WJE** Wiss, Janney, Elstner Associates, Inc.  
Engineers, Architects, Material Scientists  
330 Pingston Road, Northbrook, IL 60062  
(847) 272-7400, Fax: (847) 291-4813  
WJE No. 2011.5155.0

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	DATE 12/12/2014	REVISED -

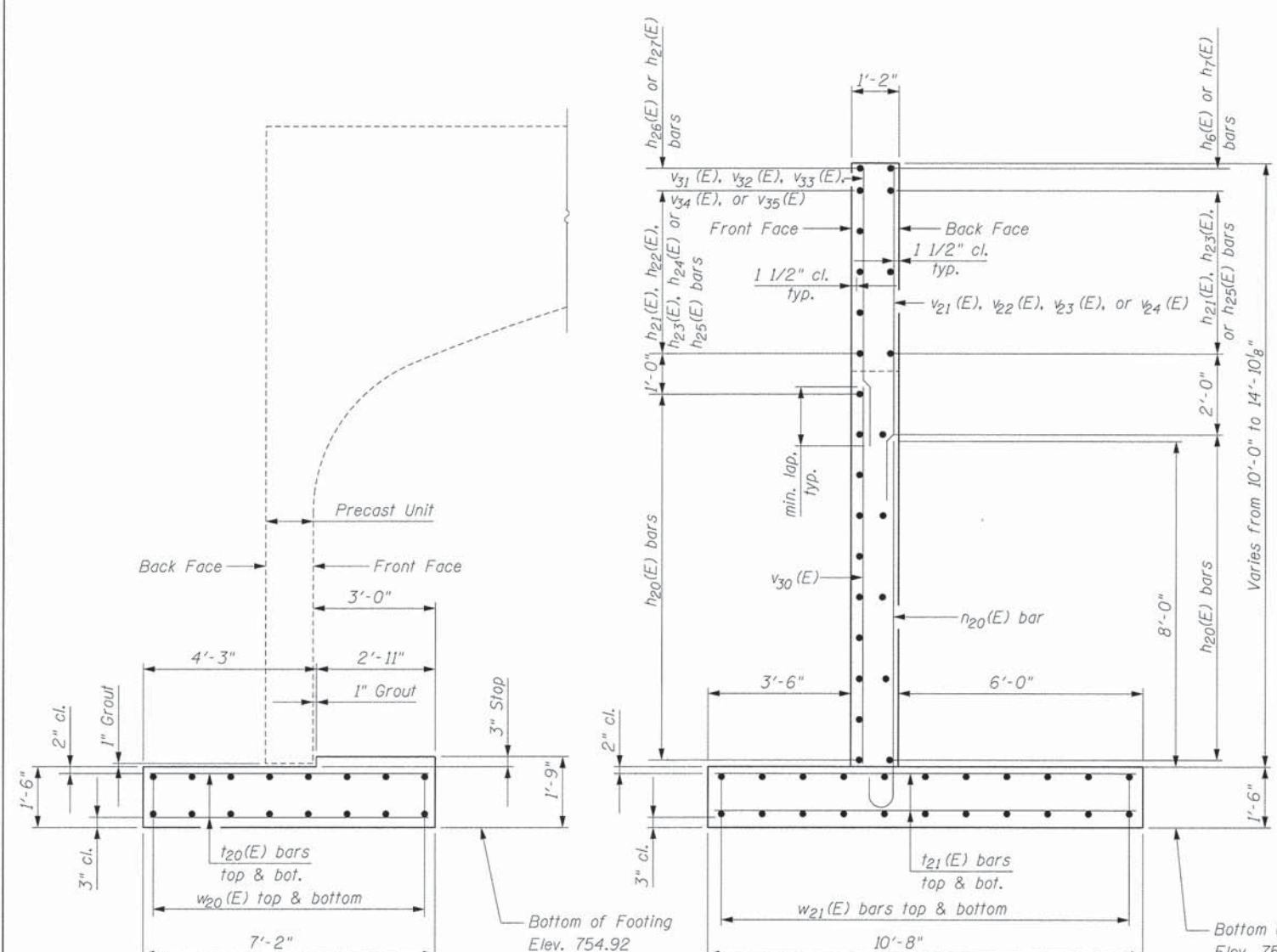
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WEST CUBA ROAD BRIDGE REPLACEMENT**  
**TYPICAL PAVEMENT DETAILS**  
**STRUCTURE NO. 049-6054**

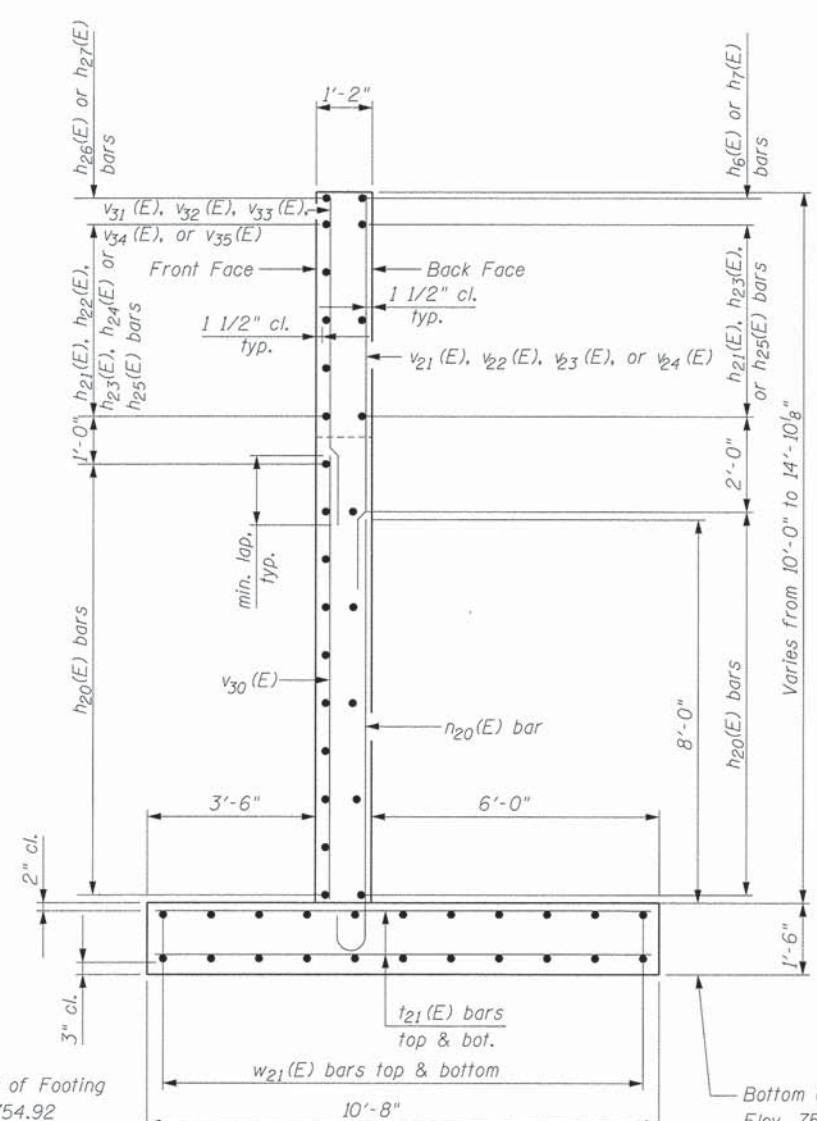
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61B04	

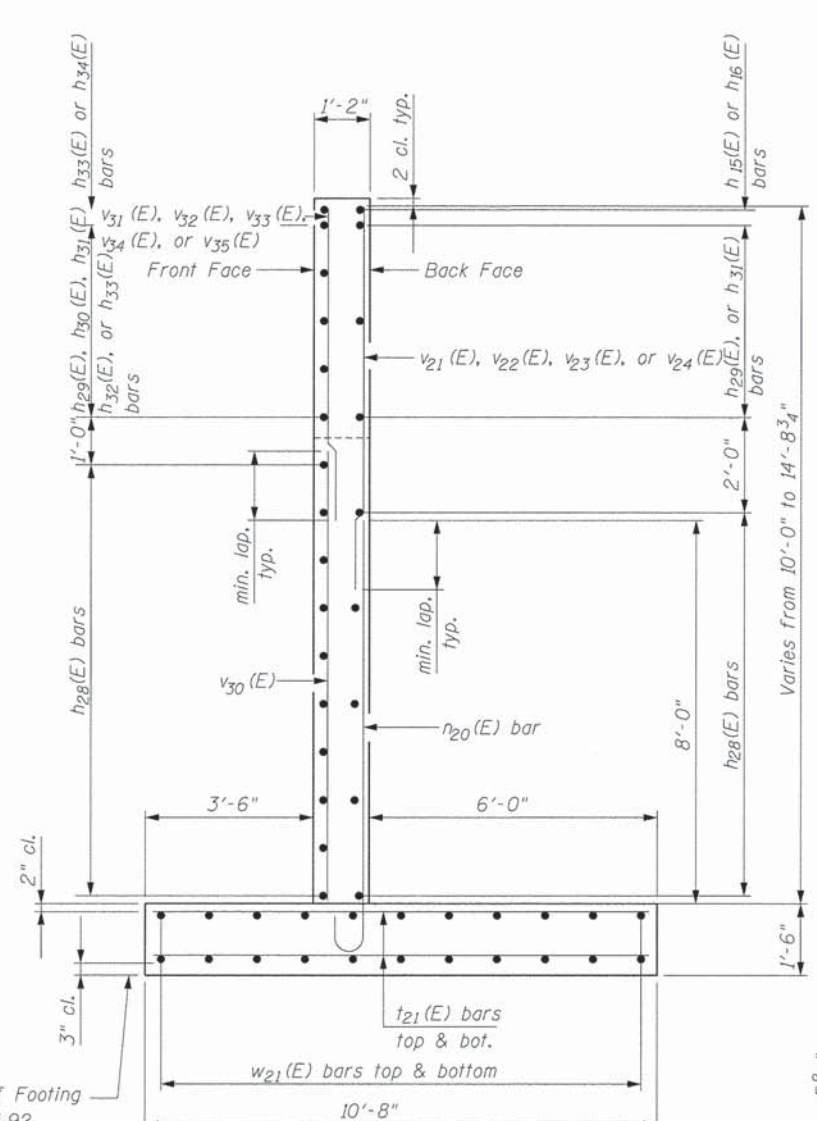




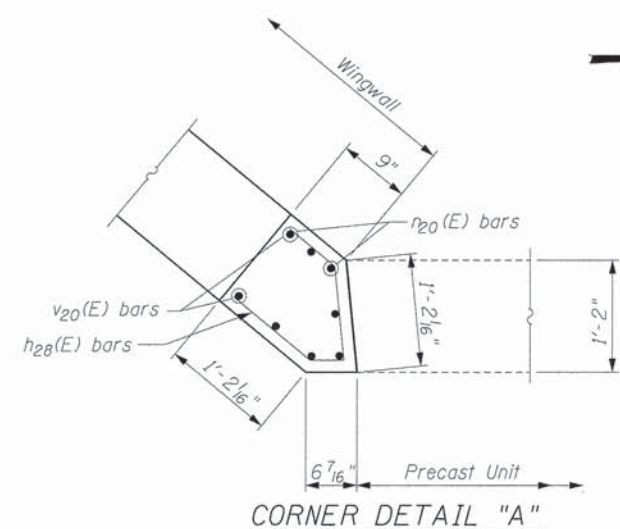
SECTION B-B



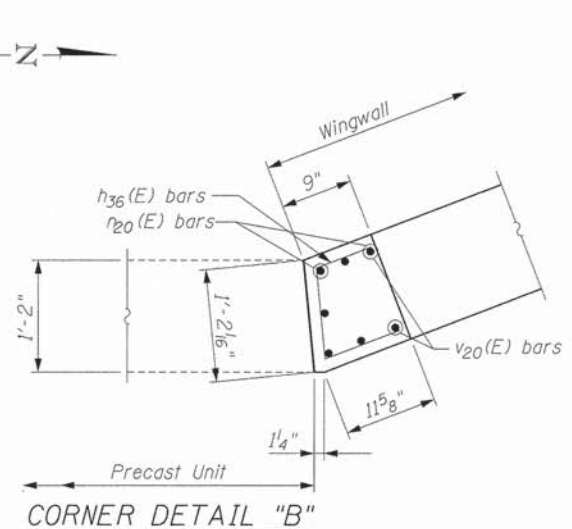
SECTION C-C



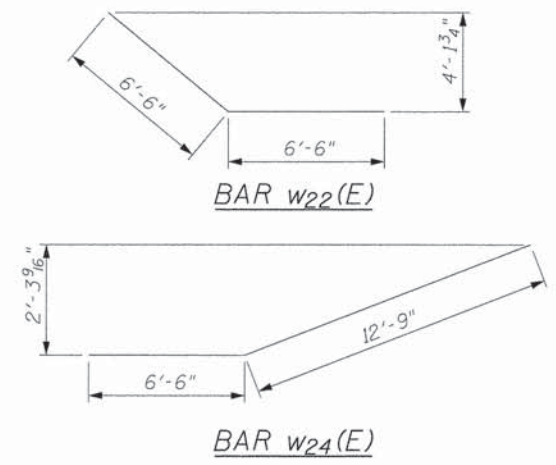
SECTION D-D



CORNER DETAIL "A"

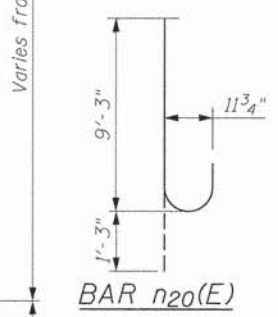


CORNER DETAIL "B"

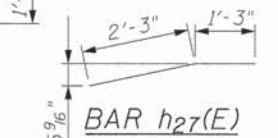


BAR w22(E)

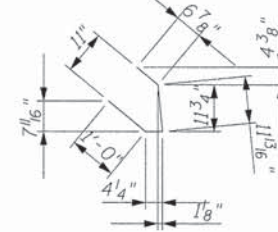
BAR w24(E)



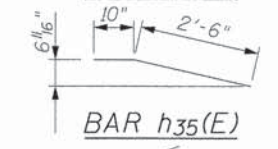
BAR n20(E)



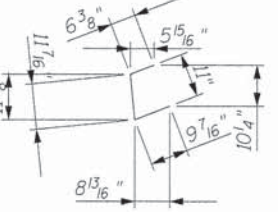
BAR h27(E)



BAR h28(E)



BAR h35(E)



BAR h36(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	15	#4	23'-6"	—
h21(E)	2	#4	21'-10"	—
h22(E)	1	#4	17'-1"	—
h23(E)	2	#4	12'-4"	—
h24(E)	1	#4	7'-7"	—
h25(E)	2	#4	3'-6"	—
h26(E)	2	#4	23'-1"	—
h27(E)	2	#4	3'-6"	—
h28(E)	15	#5	2'-9"	U
h29(E)	15	#4	21'-2"	—
h30(E)	2	#4	19'-7"	—
h31(E)	1	#4	15'-2"	—
h32(E)	2	#4	10'-7"	—
h33(E)	1	#4	6'-5"	—
h34(E)	2	#4	21'-0"	—
h35(E)	2	#4	3'-4"	—
h36(E)	15	#4	2'-3"	U
n20(E)	63	#9	10'-6"	U
t20(E)	68	#5	6'-10"	—
t21(E)	144	#6	10'-4"	—
v20(E)	15	#4	14'-7"	—
v21(E)	12	#4	4'-4"	—
v22(E)	16	#4	5'-8"	—
v23(E)	16	#4	7'-0"	—
v24(E)	15	#4	8'-5"	—
v30(E)	12	#4	9'-6"	—
v31(E)	2	#4	2'-7"	—
v32(E)	2	#4	3'-6"	—
v33(E)	2	#4	4'-5"	—
v34(E)	2	#4	5'-4"	—
v35(E)	2	#4	6'-3"	—
w20(E)	14	#5	48'-0"	—
w21(E)	22	#5	24'-4"	—
w22(E)	22	#5	13'-0"	—
w23(E)	22	#5	20'-7"	—
w24(E)	22	#5	19'-3"	—
Silane Application		Sq. Yd.	64.9	
Concrete Structures		Cu. Yd.	71.4	
Reinforcement Bars, Epoxy Coated		Pound	8649	

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WJE No. 2011.5155.0

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	DATE 12/12/2014	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

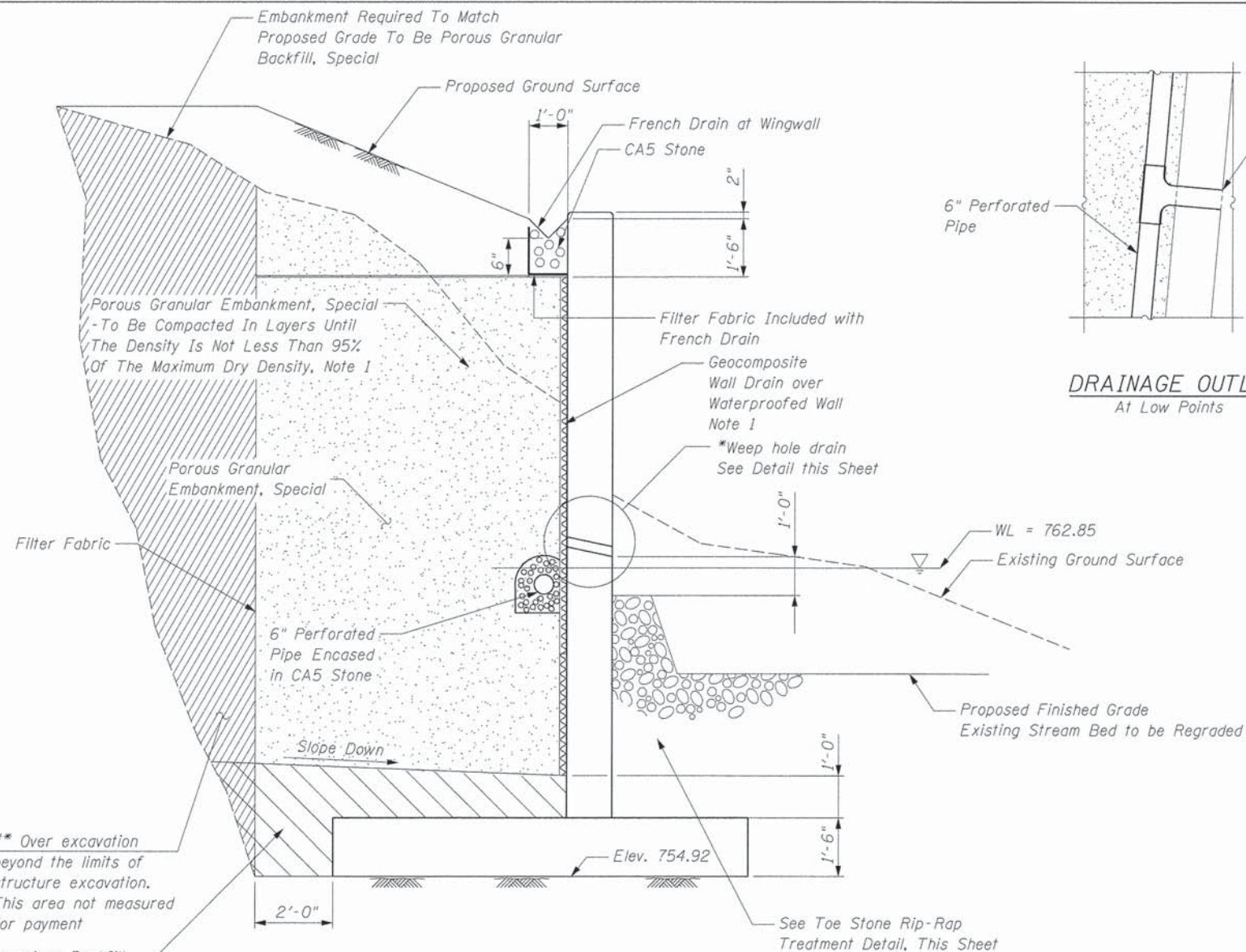
WEST CUBA ROAD BRIDGE REPLACEMENT  
WEST ABUTMENT SECTIONS AND DETAILS  
STRUCTURE NO. 049-6054

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 61B04	

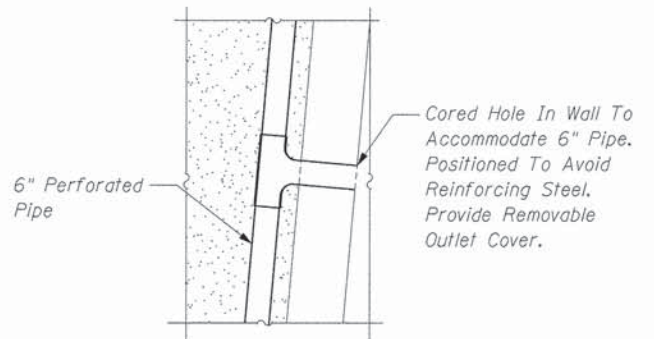






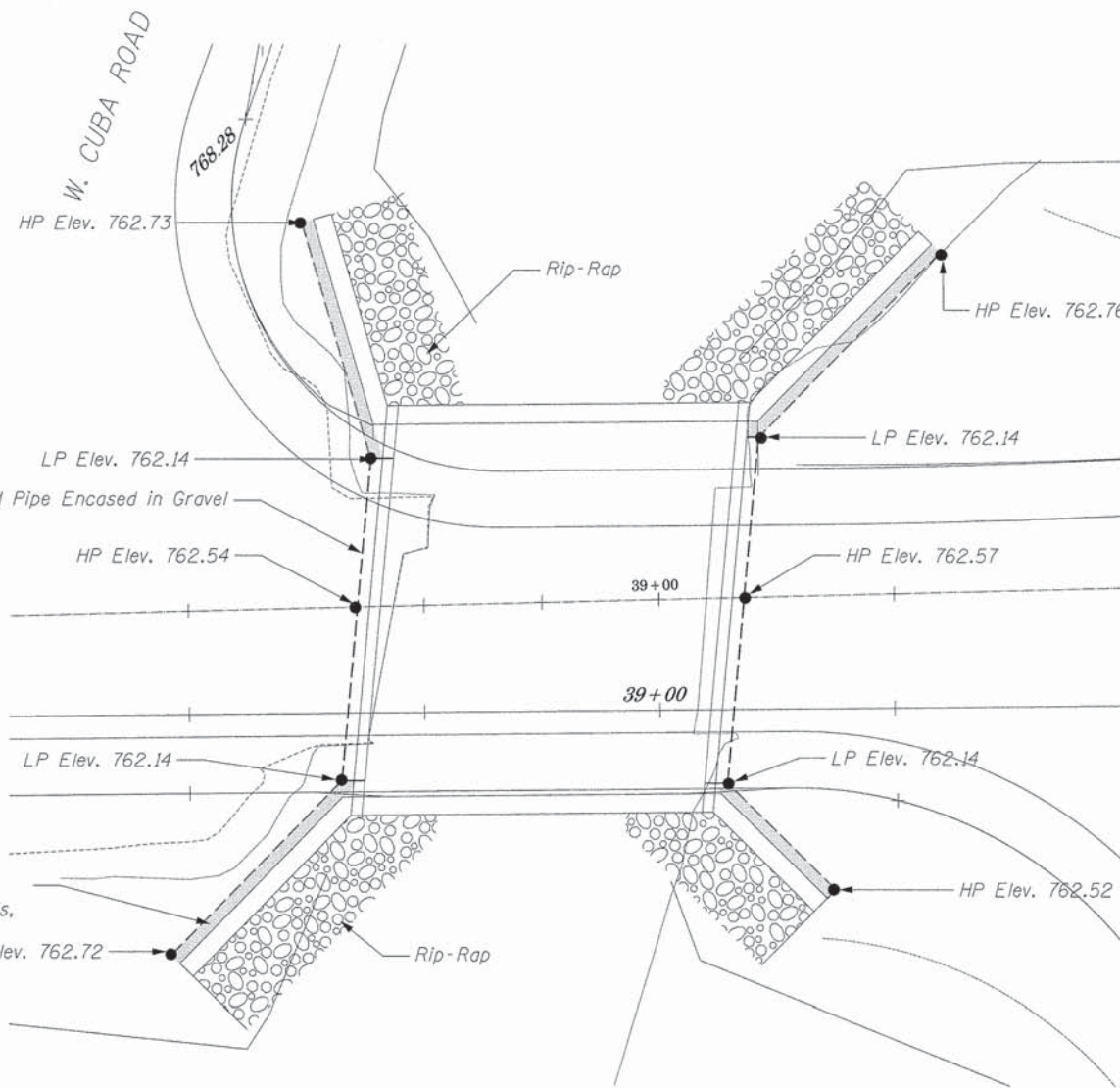
**WINGWALL DRAINAGE DETAILS WITH WEEP HOLE OUTLET**

**DRAINAGE OUTLET At Low Points**



Cored Hole In Wall To Accommodate 6" Pipe. Positioned To Avoid Reinforcing Steel. Provide Removable Outlet Cover.

French Drain at Wingwall See This Sheet for Details, Typ.

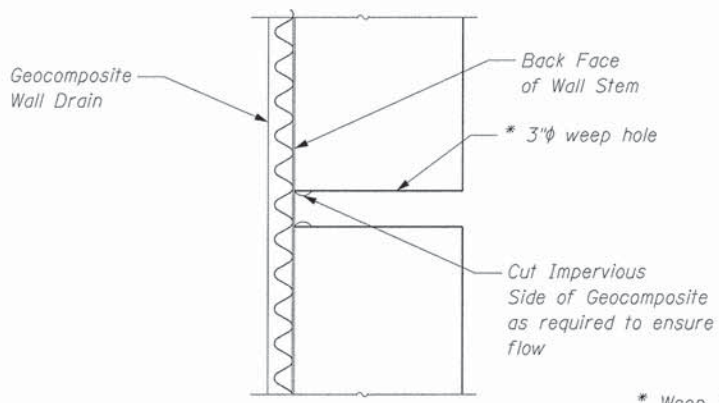


**DRAINAGE PLAN**  
Scale 1" = 20'-0"

\*\* Over excavation beyond the limits of structure excavation. This area not measured for payment

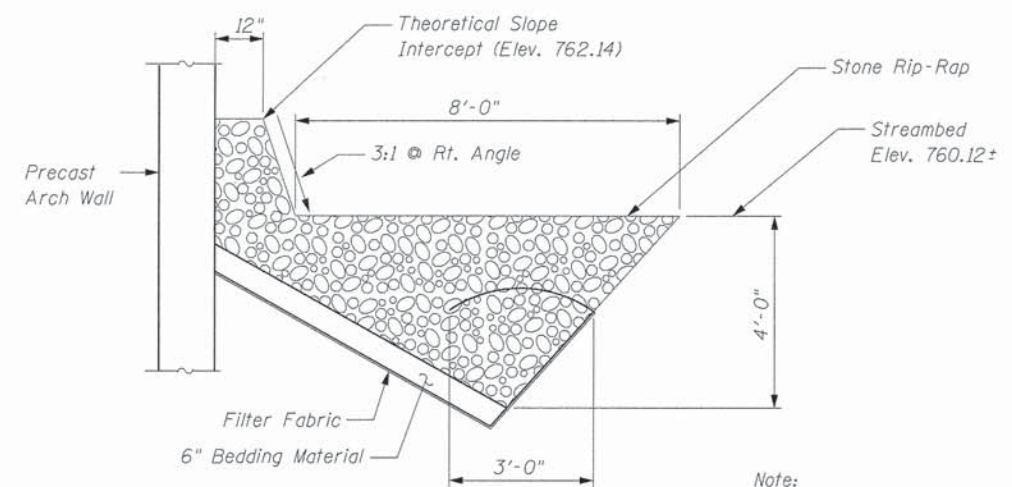
Impervious Backfill. Costs Included With PGE, Special

Note:  
1. Quantity for Wingwalls Only



**WEEP HOLE DRAIN DETAIL**

\* Weep hole spacing shall be at ±8'-0" horizontally



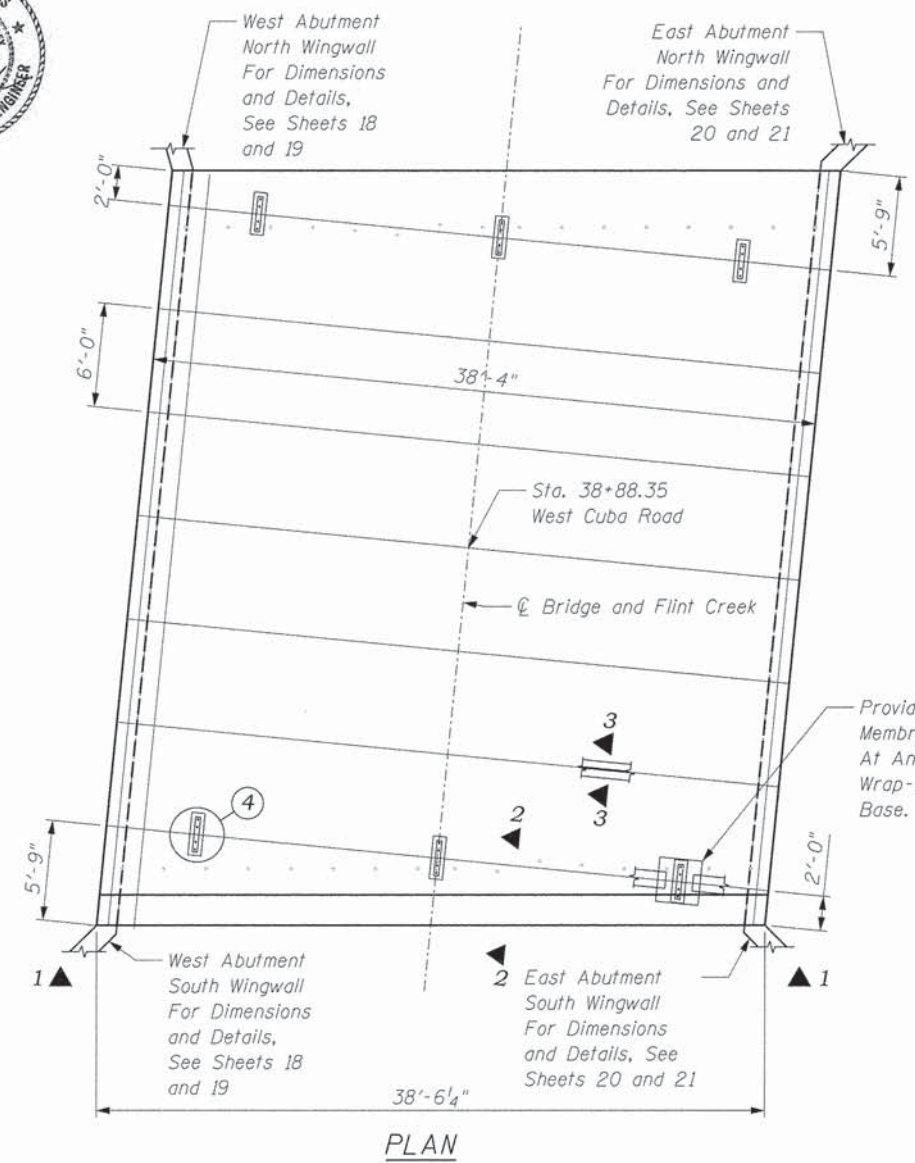
**TOE STONE RIP-RAP TREATMENT STREAM CROSSING**

Note:  
The Cost of Bedding Material is Included in The Cost of Stone Rip-Rap Class A4

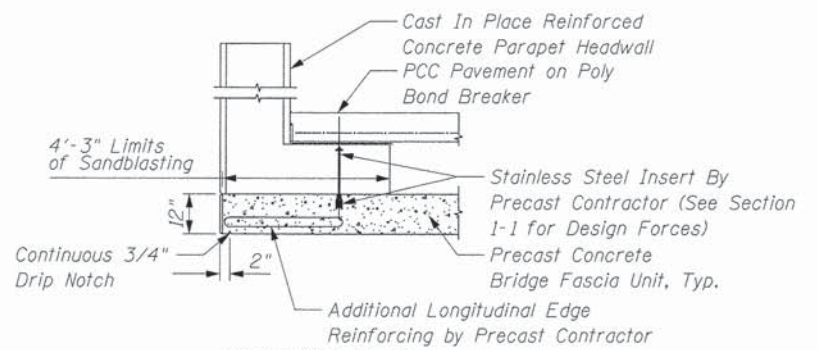
**BILL OF MATERIAL**

Item	Unit	Quantity
Geocomposite Wall Drain	Sq. Yd.	93
Stone Rip-Rap, Class A4	Sq. Yd.	211
Filter Fabric for use with Rip-Rap/Backfill	Sq. Yd.	514
Pipe Underdrains for Structure, 6"	Foot	168
French Drain	Cu. Yds.	3.9

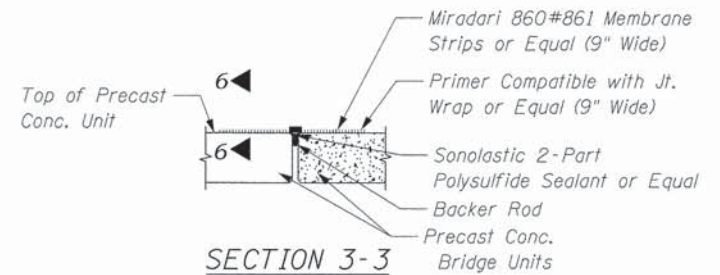




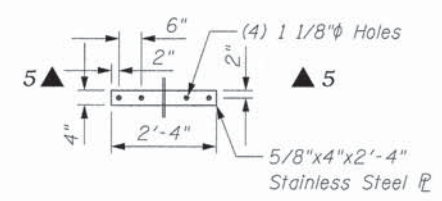
PLAN



SECTION 2-2

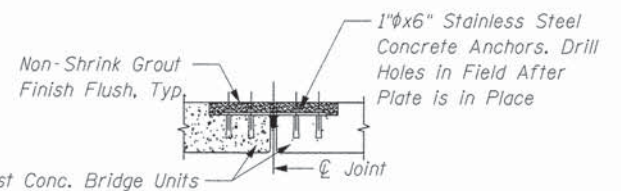


SECTION 3-3

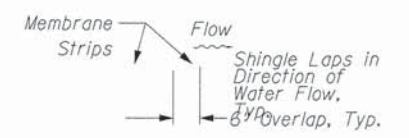


DETAIL 4

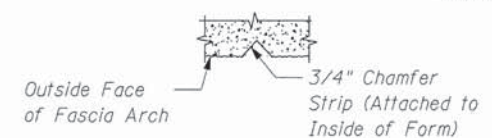
Note: Final Design of Plate and Anchors by Precaster



SECTION 5-5



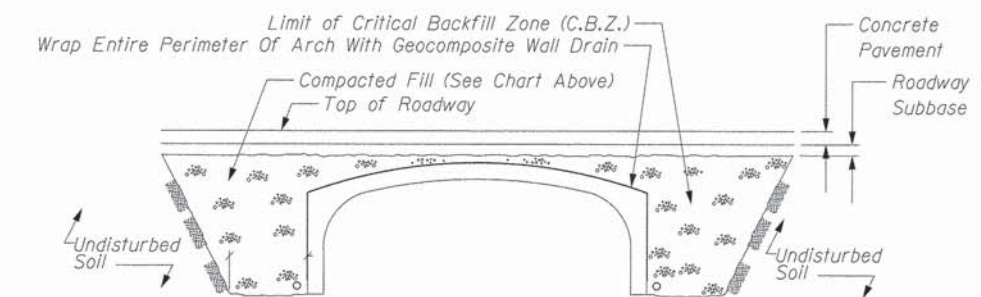
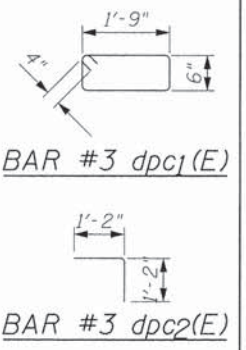
SECTION 6-6



SECTION 7-7  
ARCH JOINT REVEAL

BACKFILL DESCRIPTION

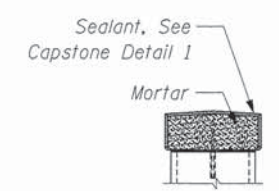
Group Classification	A1a	A1b	A3
Sleeve Analysis, Percent Passing			
No. 10	50 max.		51 max.
No. 40	30 max.	50 max.	10 max.
No. 200	15 max.	25 max.	
Characteristics of Fraction Passing No. 40			
Plasticity Index	6 max.		N.P.
Usual Types of Significant Constituent Materials	Stone Fragments, Gravel & Sand		Fine Sand
General Rating as Subgrade			Excellent to Good



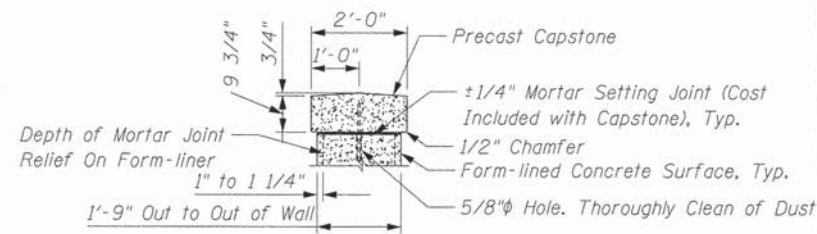
ELEVATION

Notes

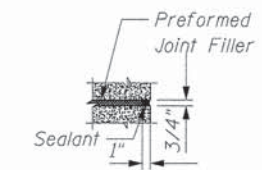
- See Con/Span B-Series Specifications Section 13.7 For Backfill Specifications.
- For Fill Heights Less Than 2'-0", The Finished Grade Shall Be The Boundary Line For The C.B.Z.
- Backfilling Operations Within The C.B.Z. Shall Be Performed In Lifts Of 8" Or Less (Loose Depth).
- Maximum Dry Density Shall Be Determined By AASHTO T-99 Or Other Approved Methods.
- Backfill Shall Be Compacted In Layers Until The Density Is Not Less Than 95% Of The Maximum Dry Density.
- Acceptable Material inside the C.B.Z. is A1a, A1b, and A3.



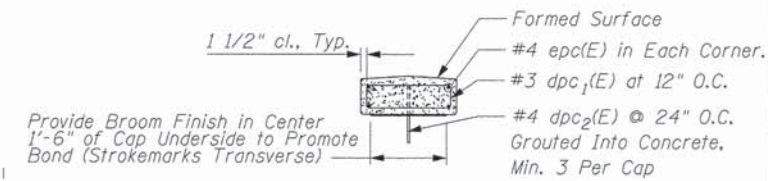
CAPSTONE JOINT DETAIL



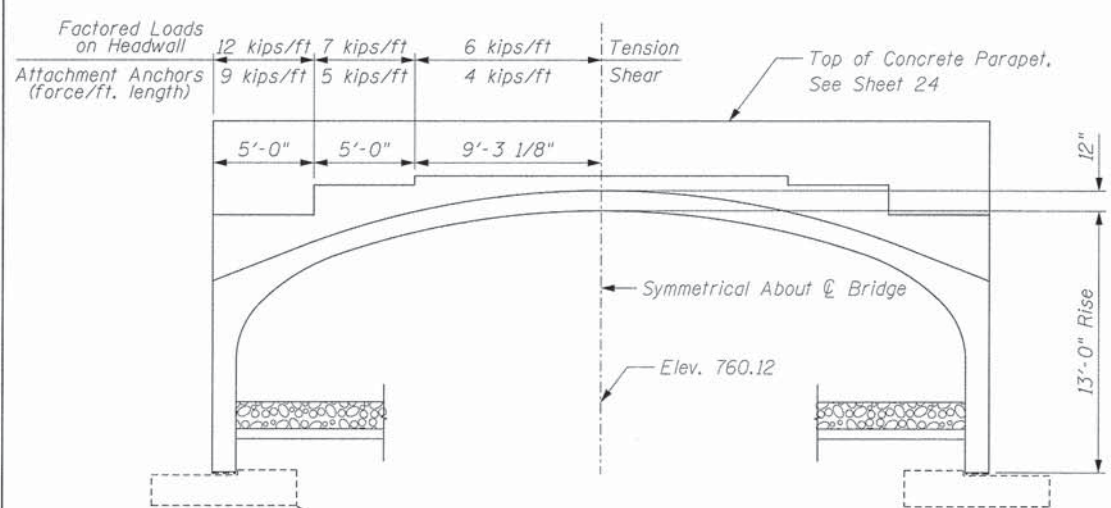
PRECAST CAPSTONE SECTION



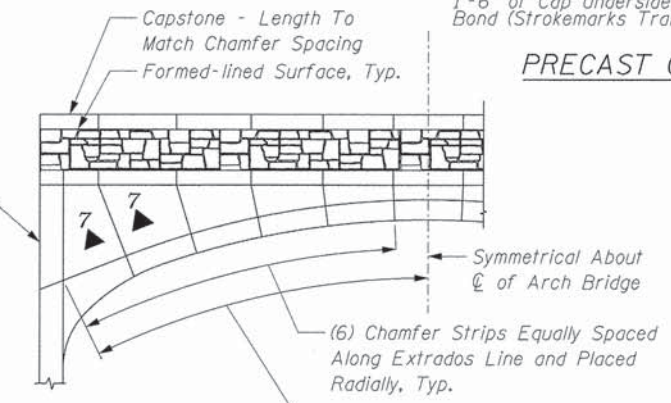
CAPSTONE DETAIL 1



PRECAST CAPSTONE REINFORCING SECTION



SECTION 1-1



HALF ELEVATION OF FASCIA ARCH

BILL OF MATERIAL

Bar No.	Size	Length	Shape
dpc1(E)	#3	5'-2"	□
dpc2(E)	#4	2'-4"	└
epc(E)	#4	38'-2"	—
Precast Stone Coping		Lin. Ft.	77
Form Liner Textured Surface		Sq. Ft.	308
Three-Sided Precast Reinforced Concrete Bridges		Lin. Ft.	43.5
Geocomposite Wall Drain		Sq. Yd.	278

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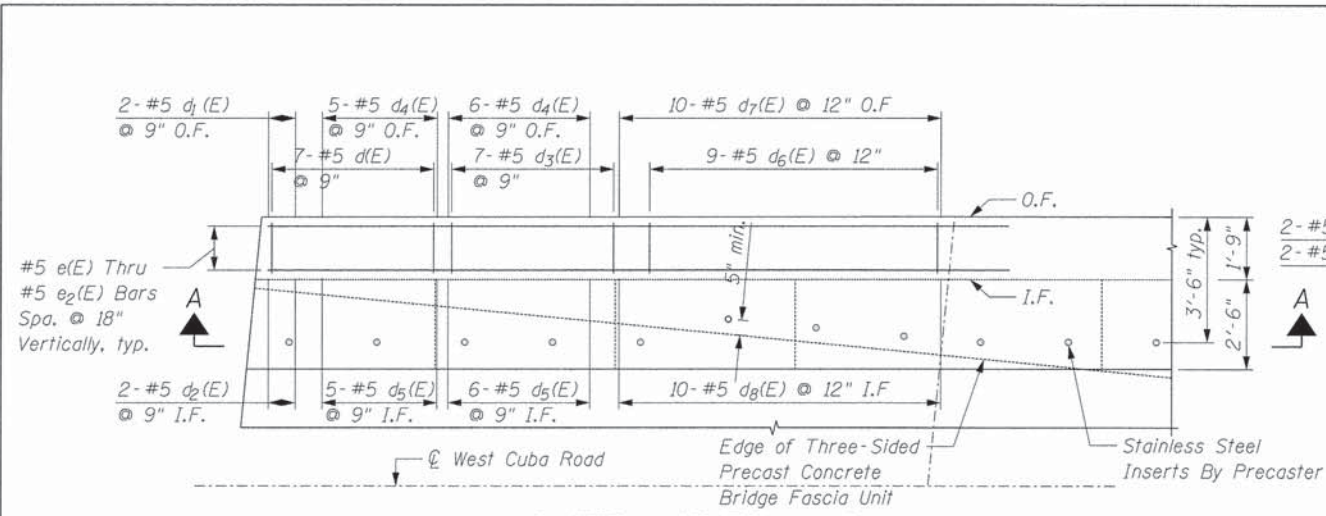
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PLOT SCALE = NOT TO SCALE	DRAWN SLL	REVISED -
PLOT DATE = 12/15/2014	CHECKED JCM	REVISED -
	DATE 12/12/2014	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

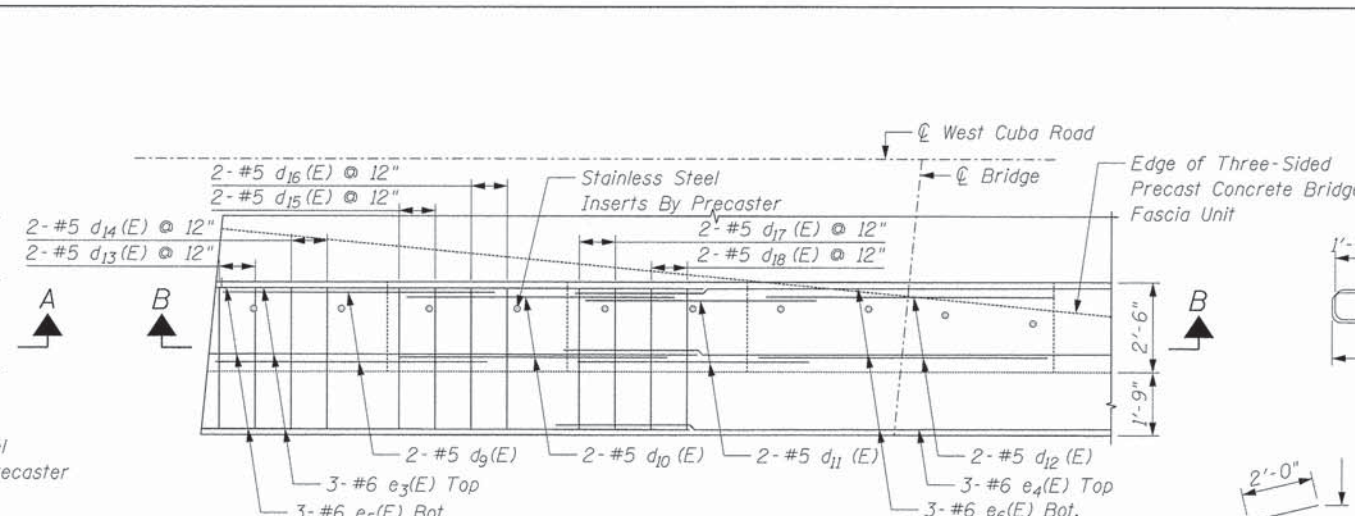
WEST CUBA ROAD BRIDGE REPLACEMENT BRIDGE PLAN, SECTION, AND DETAILS STRUCTURE NO. 049-6054

F.A.U. RTE. 1260	SECTION 12-00020-00-BR	COUNTY LAKE	TOTAL SHEETS 41	SHEET NO. 23
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61B04	

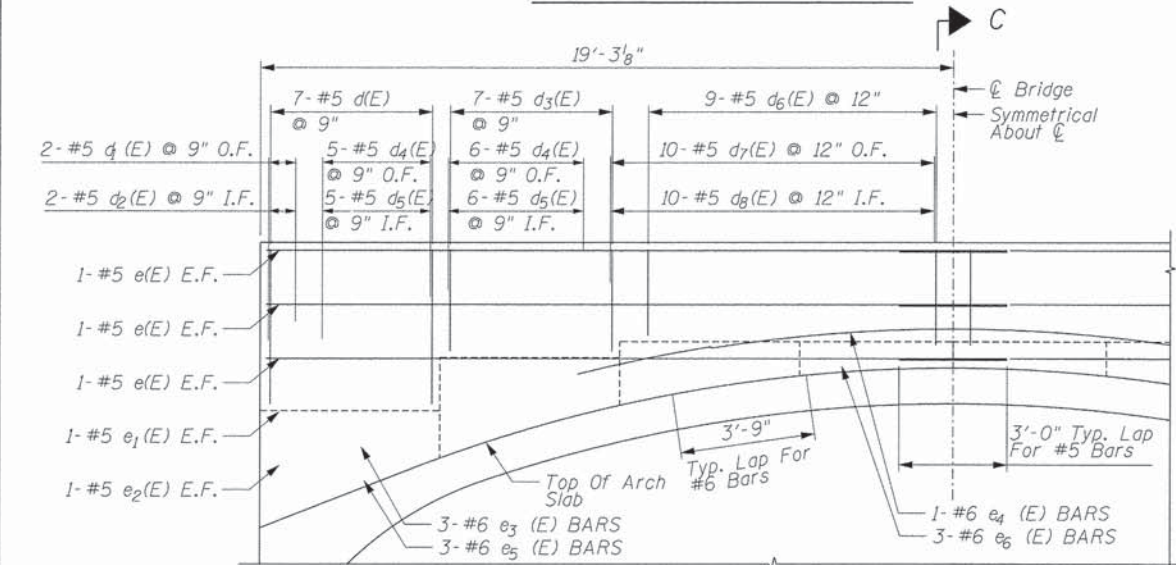
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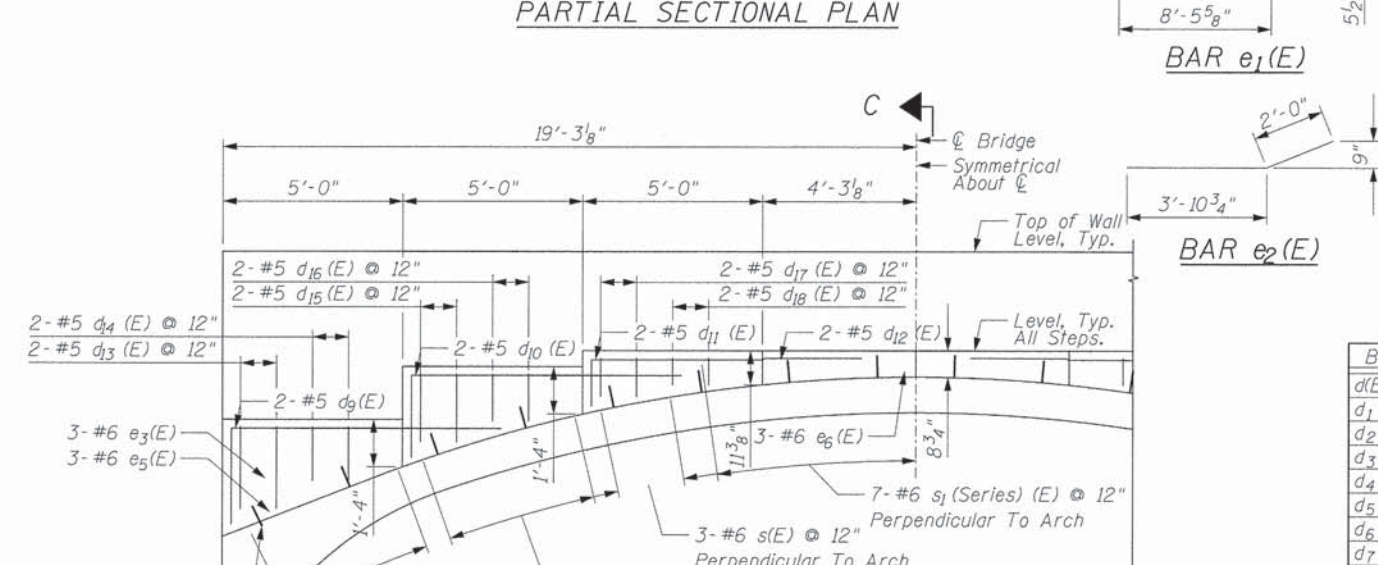
PARTIAL SECTIONAL PLAN



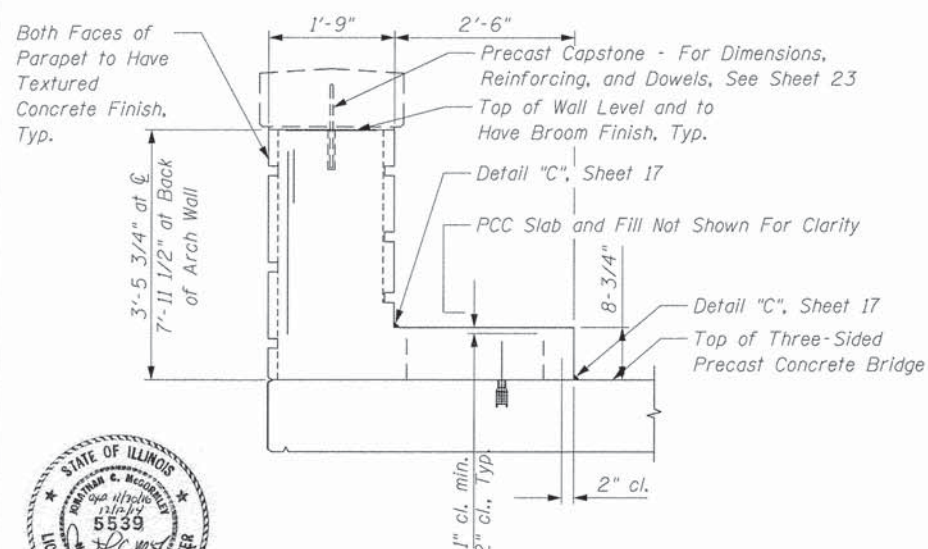
PARTIAL SECTIONAL PLAN



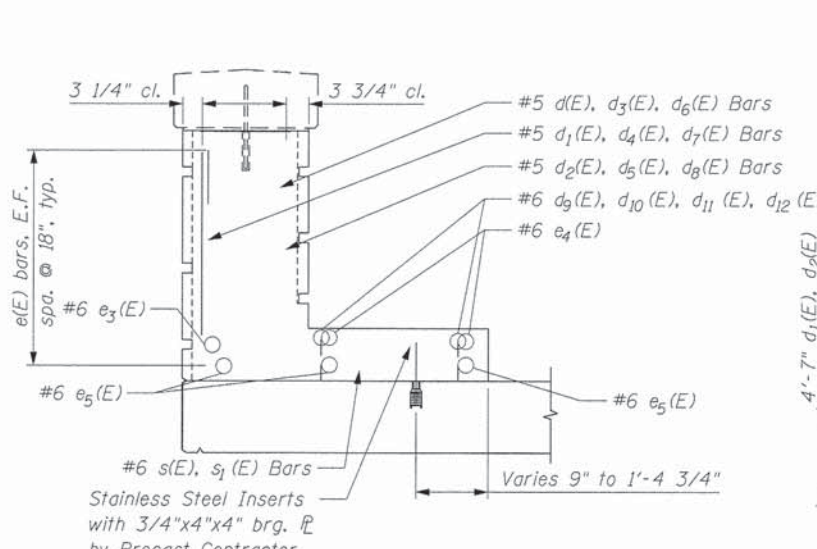
PARTIAL SECTIONAL PLAN A-A



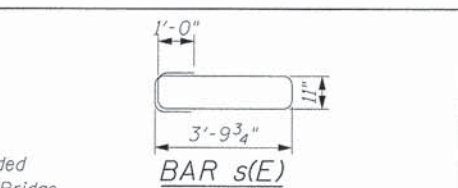
PARTIAL SECTIONAL PLAN B-B



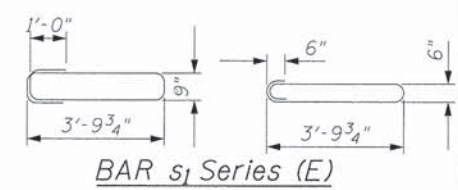
SECTION C-C (SHOWING DIMENSIONS)



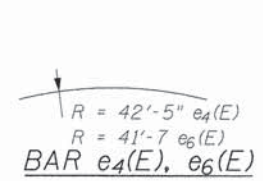
SECTION C-C (SHOWING REINFORCEMENT BARS)



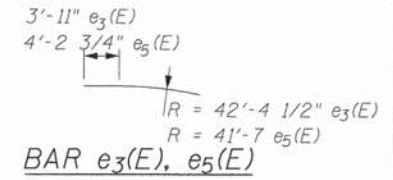
BAR s(E)



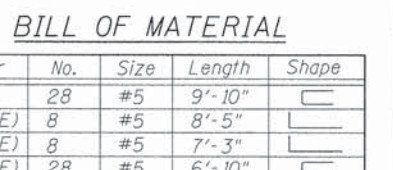
BAR s1 Series (E)



BAR e1(E)



BAR e4(E), e6(E)



BAR e3(E), e5(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	28	#5	9'-10"	U
d1(E)	8	#5	8'-5"	U
d2(E)	8	#5	7'-3"	U
d3(E)	28	#5	6'-10"	U
d4(E)	44	#5	8'-0"	U
d5(E)	44	#5	6'-10"	U
d6(E)	36	#5	6'-0"	U
d7(E)	40	#5	6'-10"	U
d8(E)	40	#5	5'-8"	U
d9(E)	8	#5	10'-3"	U
d10(E)	8	#5	9'-10"	U
d11(E)	8	#5	8'-10"	U
d12(E)	4	#5	9'-2"	U
d13(E)	8	#5	6'-2"	U
d14(E)	8	#5	5'-4"	U
d15(E)	8	#5	5'-9"	U
d16(E)	8	#5	5'-2"	U
d17(E)	8	#5	4'-11"	U
d18(E)	8	#5	4'-7"	U
e(E)	24	#5	20'-7"	U
e1(E)	8	#5	10'-6"	U
e2(E)	8	#5	5'-6"	U
e3(E)	12	#6	12'-11"	U
e4(E)	2	#6	21'-1"	U
e5(E)	12	#6	15'-8"	U
e6(E)	6	#6	15'-10"	U
s(E)	80	#6	12'-4"	U
s1(E)	26	#6	10'-8"	U
Concrete Structures			Cu. Yd.	36.7
Reinforcement Bars, Epoxy Coated			Pound	5860



WJE  
Wiss, Janney, Elstner Associates, Inc.  
Engineers, Architects, Material Scientists  
330 Pilsbury Road, Northbrook, IL 60062  
(847) 273-7400, Fax (847) 291-4813  
WJE No. 2011.5155 D

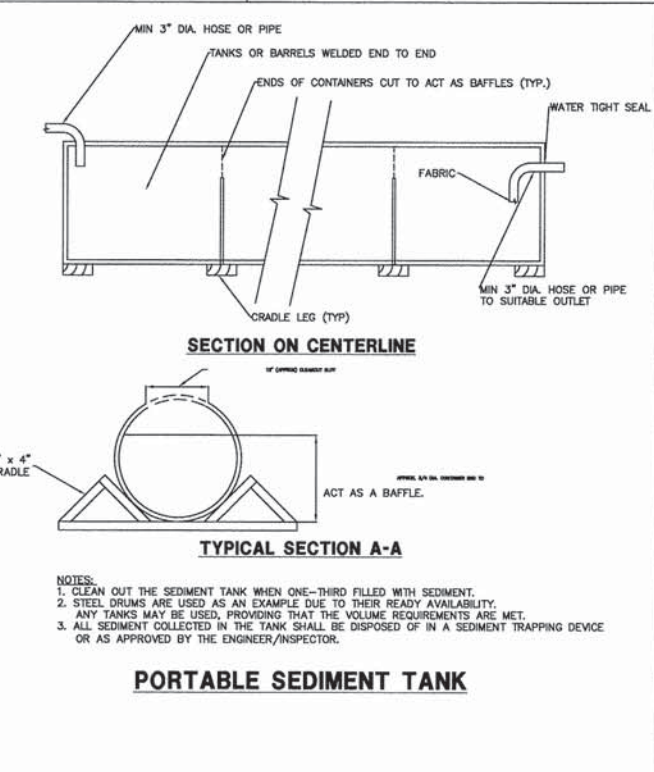
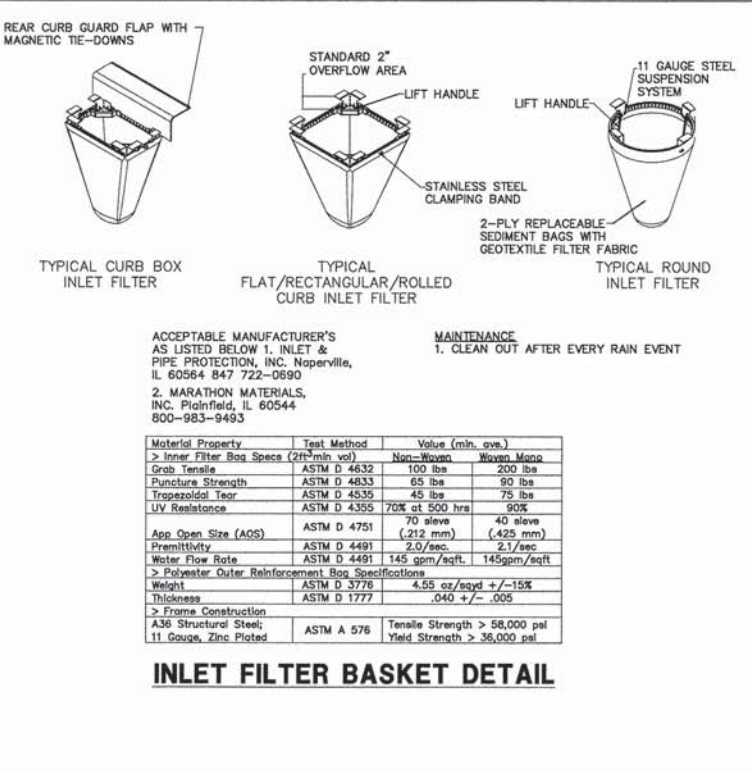
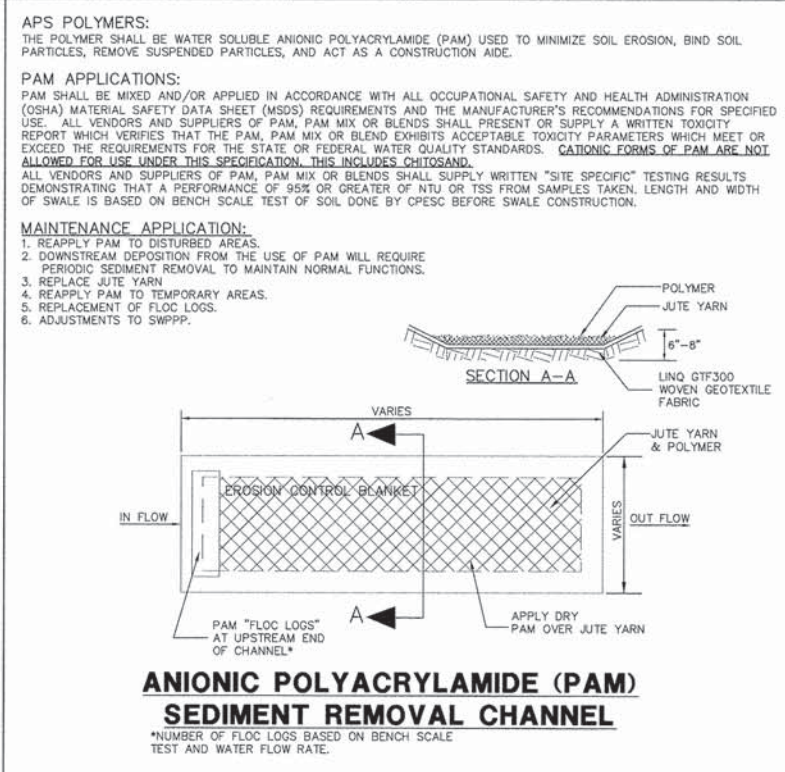
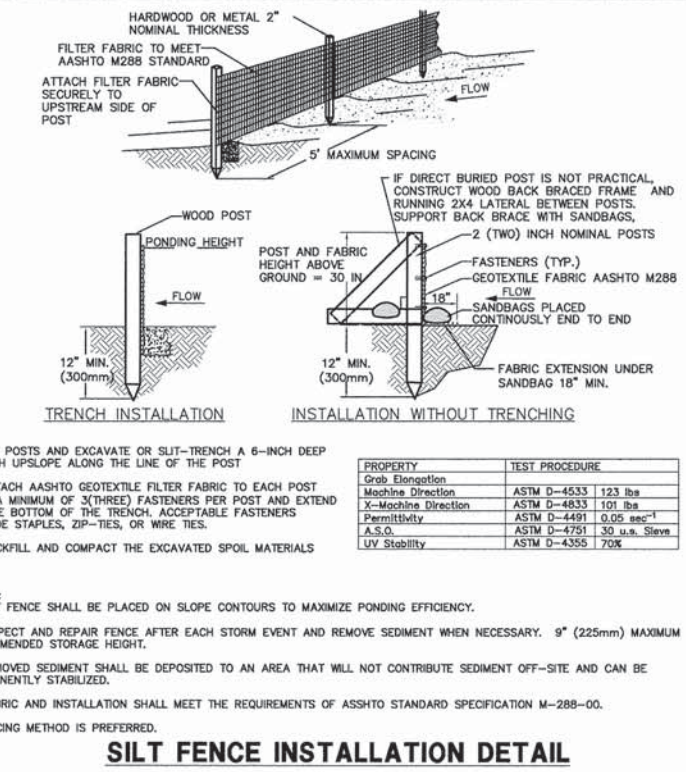
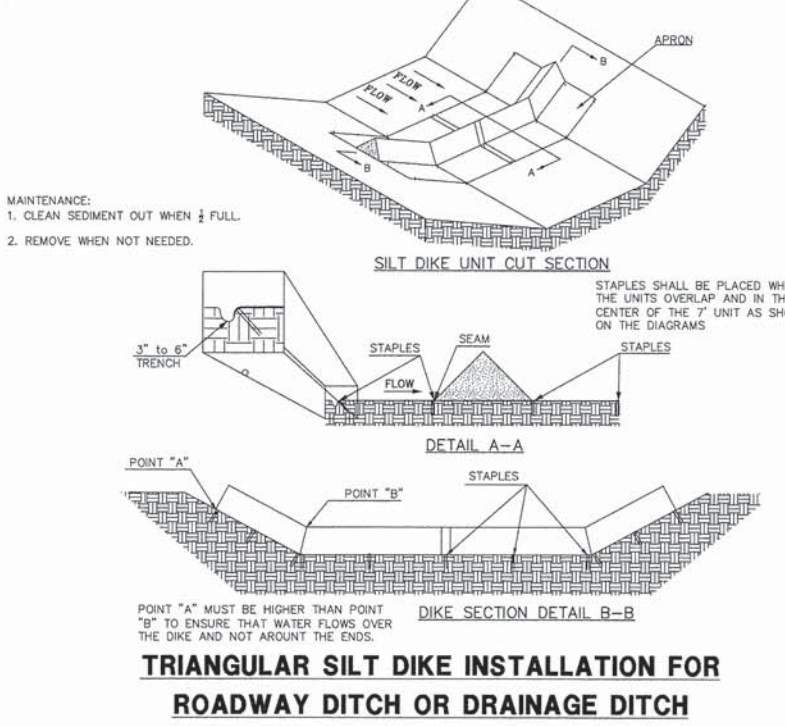
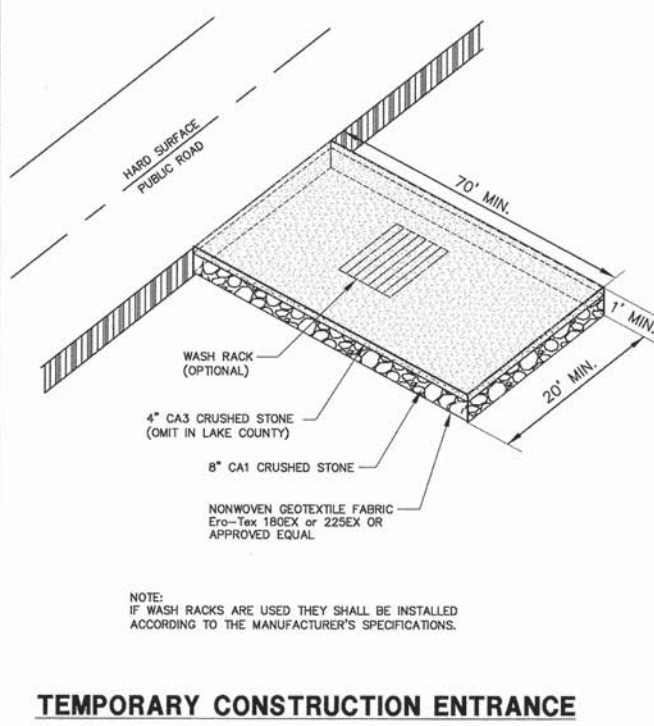
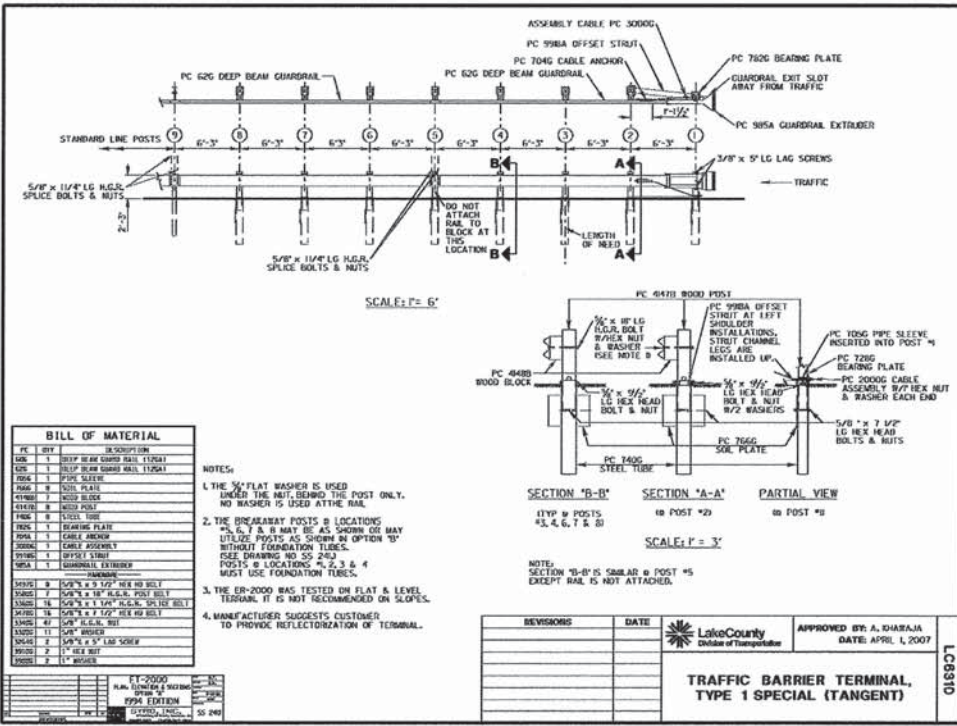
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DRAWN SLL  
CHECKED JCM  
DATE 12/12/2014  
PLOT SCALE = NOT TO SCALE  
PLOT DATE = 12/15/2014

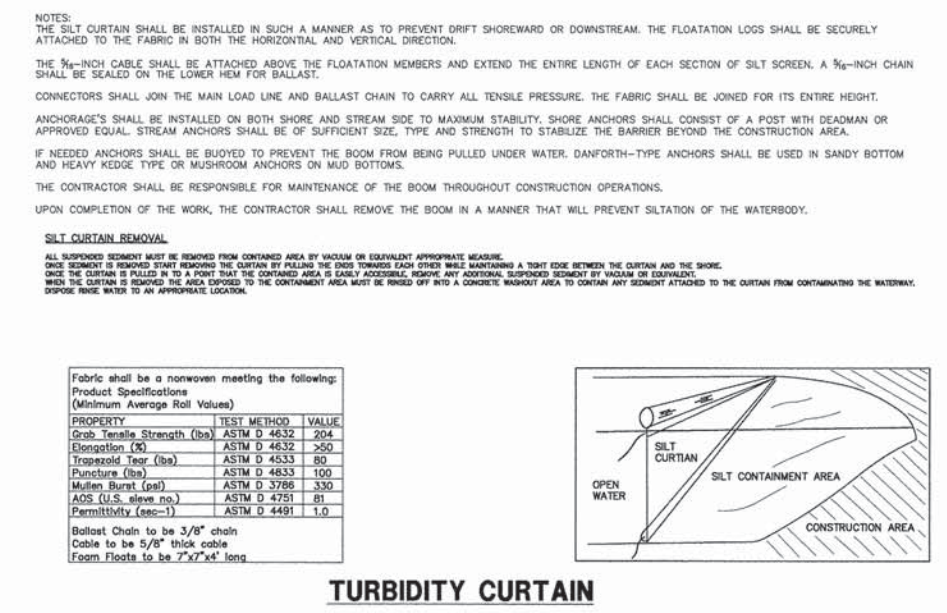
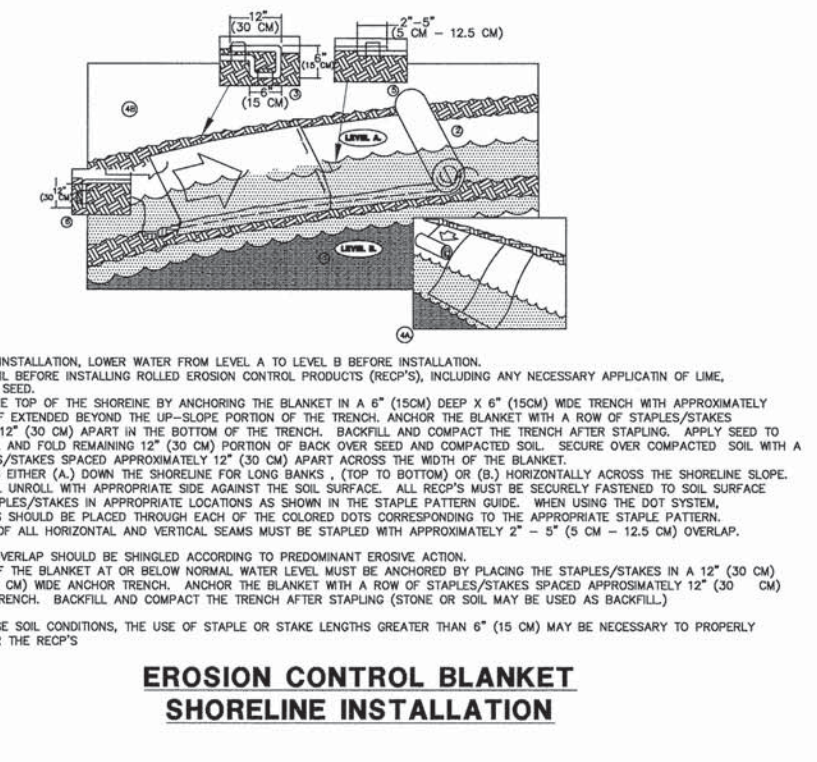
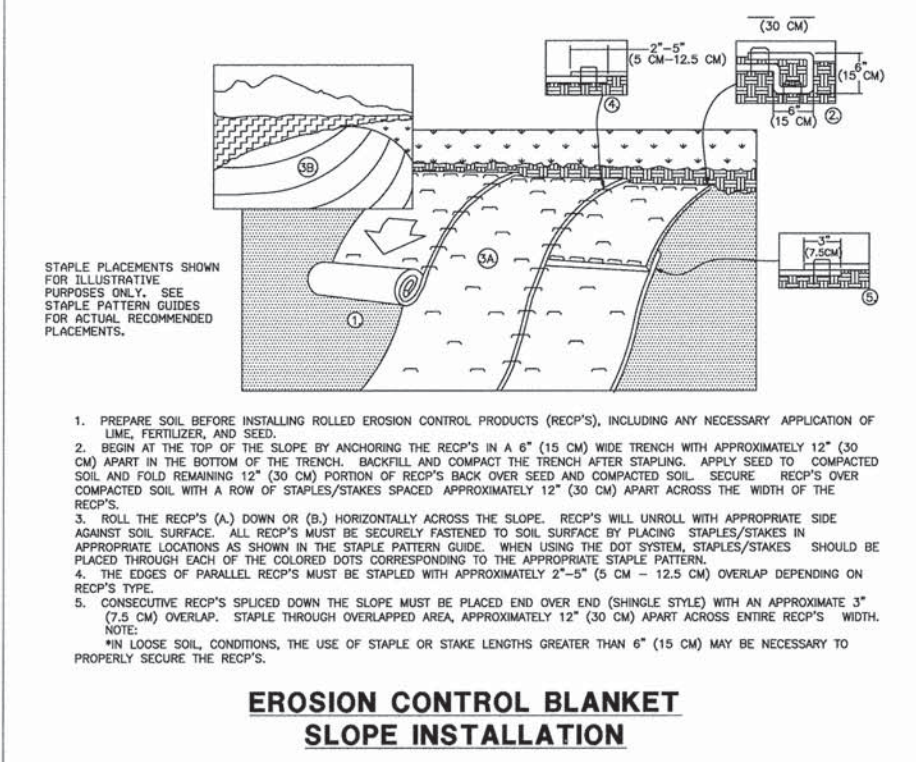
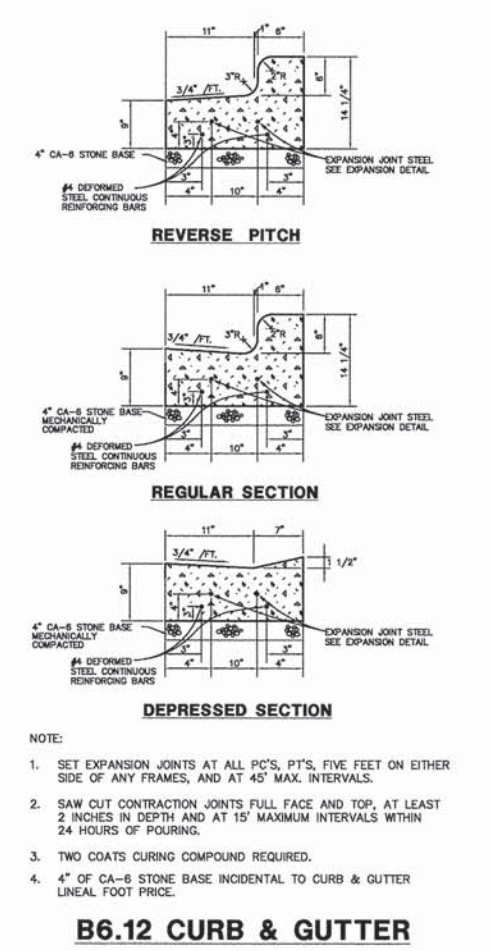
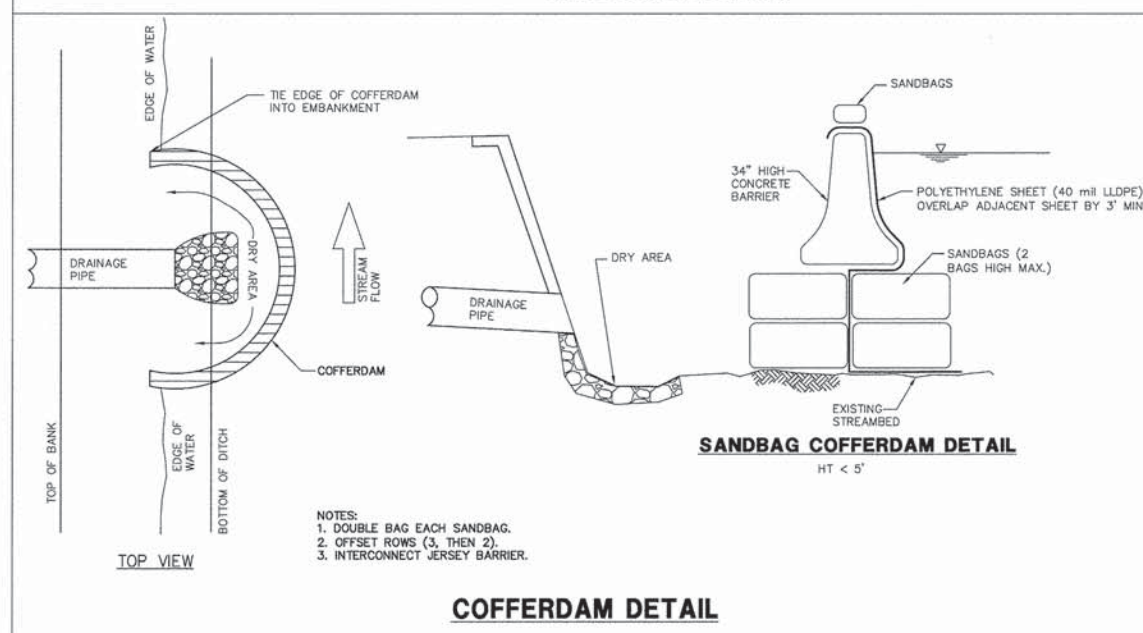
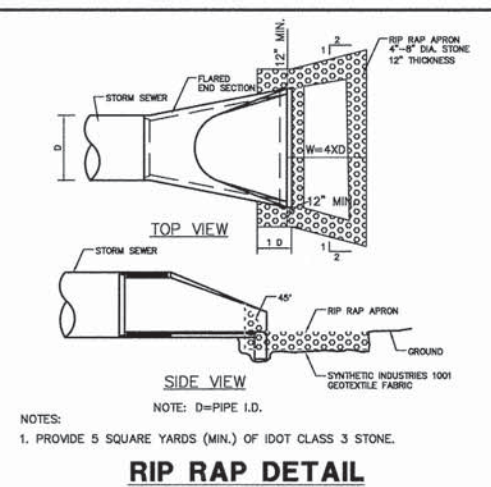
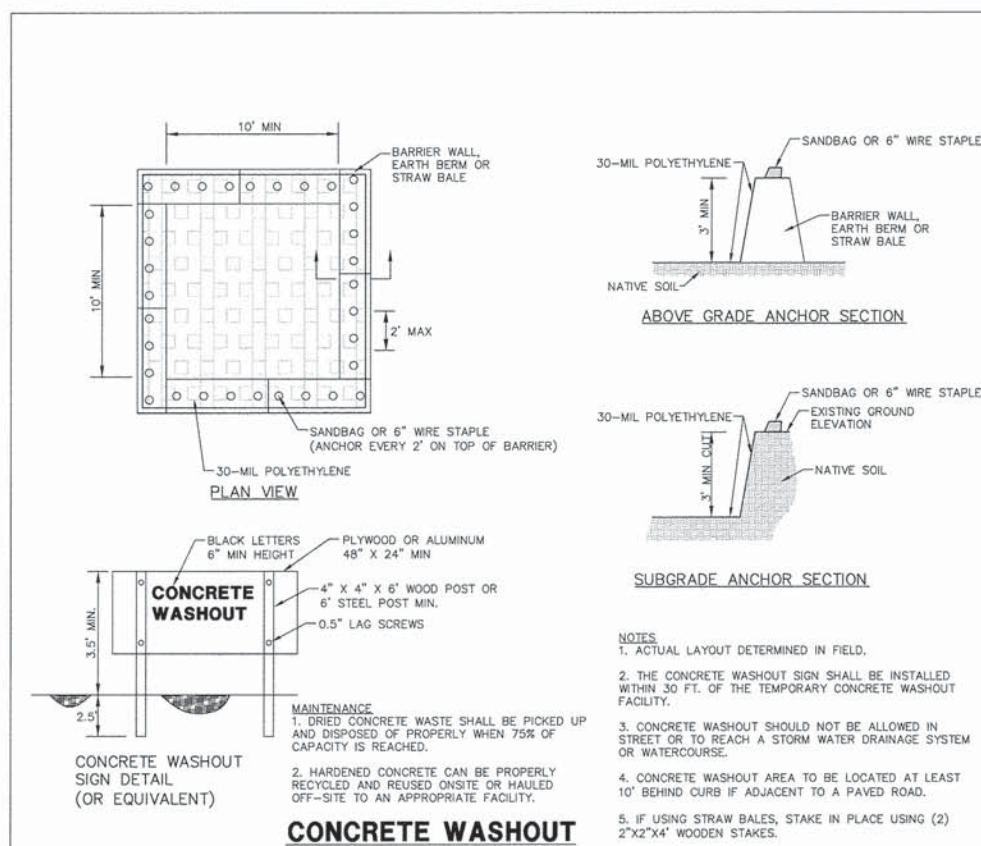
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

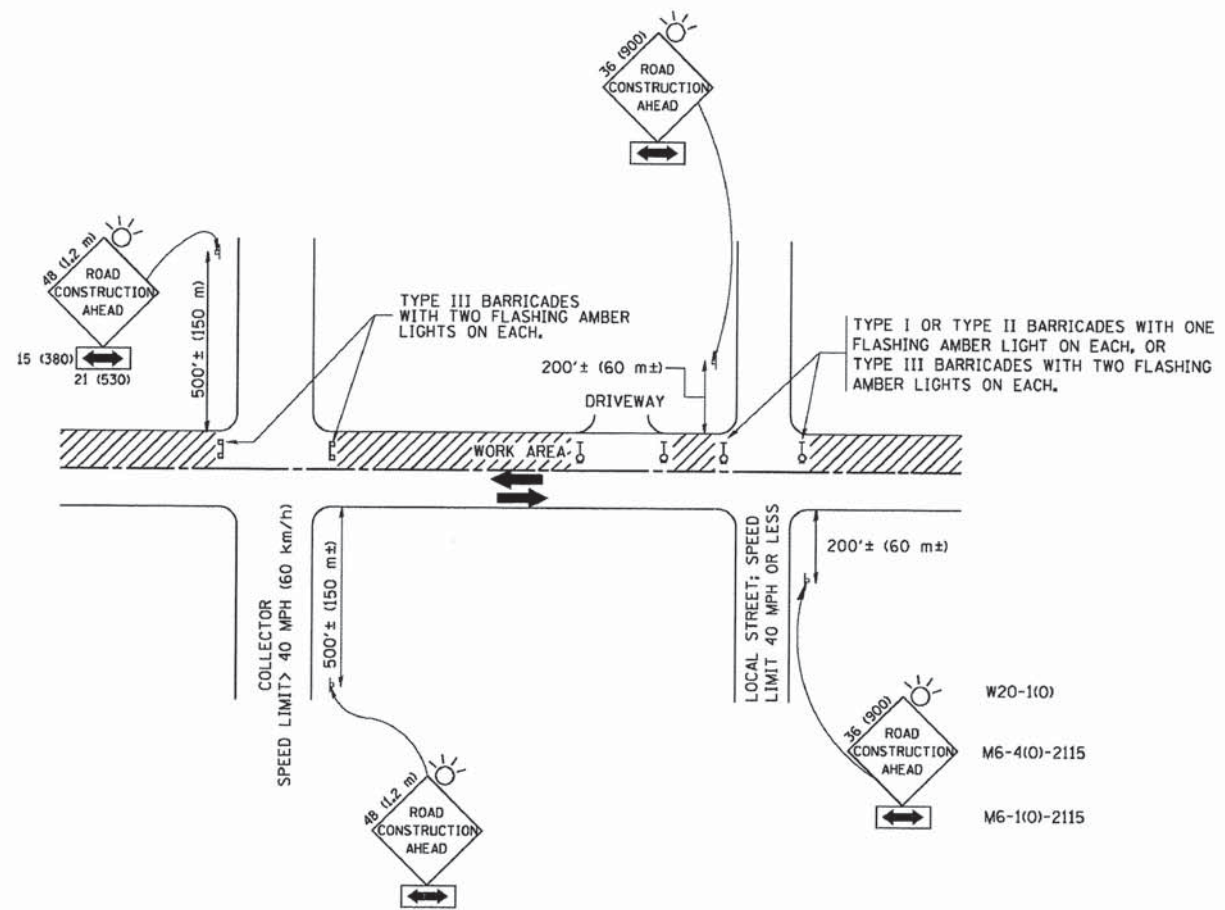
WEST CUBA ROAD BRIDGE REPLACEMENT  
BRIDGE HEADWALL PLAN, ELEVATION, AND DETAILS  
STRUCTURE NO. 049-6054

F.A.U. SHEET NO. 24  
SECTION 1260  
COUNTY LAKE  
TOTAL SHEETS 41  
CONTRACT NO. 61B04  
SCALE: SHEET NO. OF SHEETS STA. TO STA.









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 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) 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.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1,2 m x 1,2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) 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. 701501, 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.

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	PLOT SCALE = 58.828' / IN.	DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

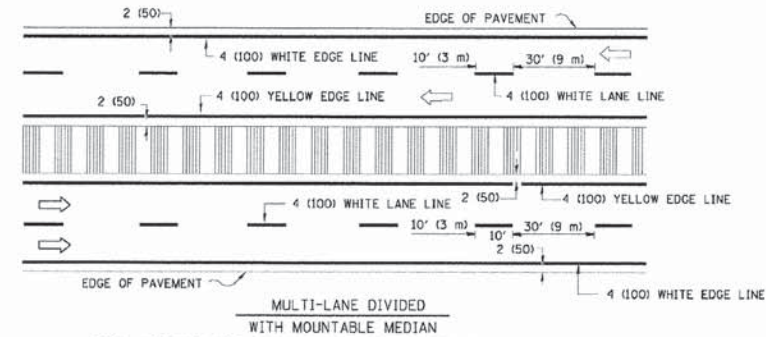
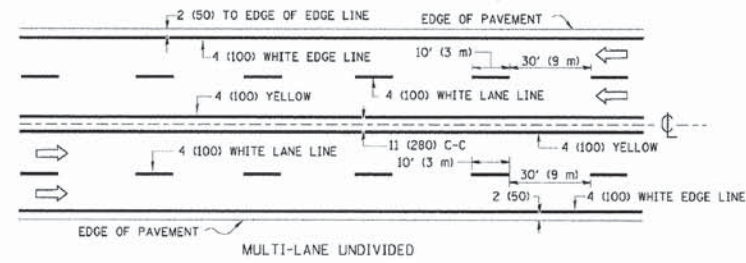
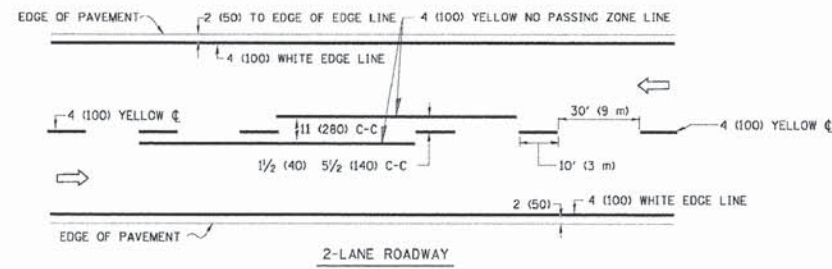
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-10			CONTRACT NO.	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

FILE NAME = 4853.000-DT1.dwg	USER NAME = DAN STRAHAN	DESIGNED - DJS	REVISED - 10/28/14
	PLOT SCALE = 1" = .08'	DRAWN - PJS	REVISED -
	PLOT DATE =	CHECKED - DJS	REVISED -
		DATE - 9/26/14	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

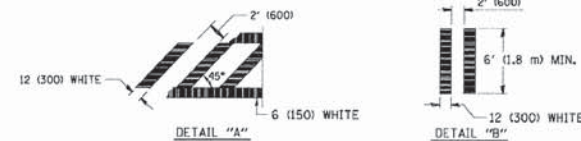
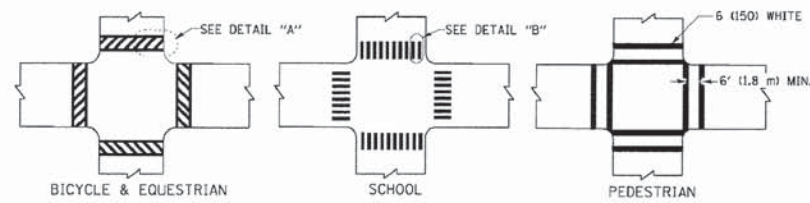
MISC. CONSTRUCTION DETAILS  
CUBA ROAD BRIDGE RECONSTRUCTION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	27
			CONTRACT #: 61B04	
ILLINOIS FED. AID PROJECT				

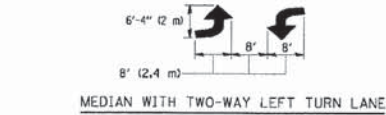
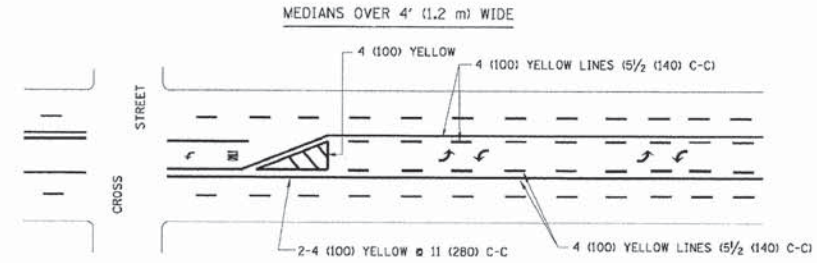
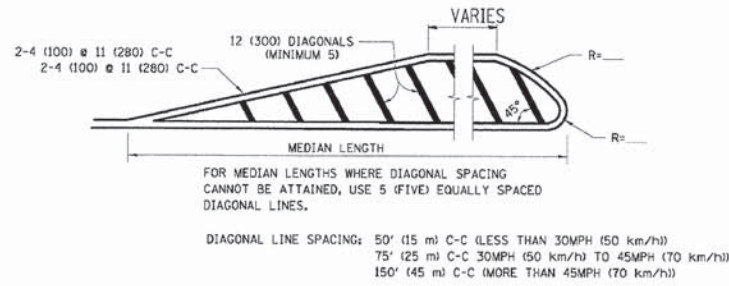
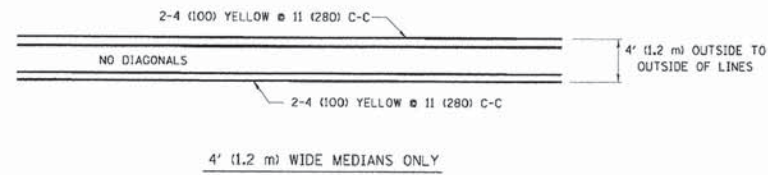


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

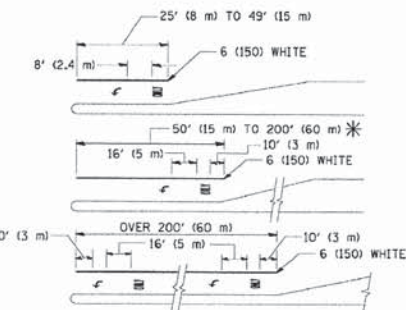
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



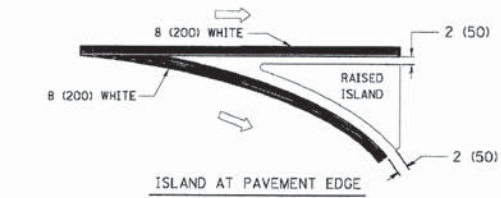
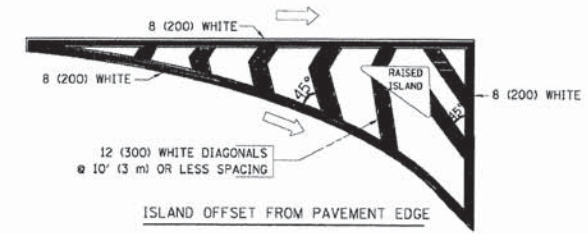
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 \* AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) 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



TYPICAL ISLAND MARKING

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

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

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

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es:\p\work\p\dot\drvakosgn\ad01283151\3.dgn		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 5/8" = 1' IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				TC-13			CONTRACT NO.
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

FILE NAME = 4853.000-DT1.dwg	USER NAME = DAN STRAHAN	DESIGNED - DJS	REVISED - 10/28/14
		DRAWN - PJS	REVISED -
	PLOT SCALE = 1" = .08'	CHECKED - DJS	REVISED -
	PLOT DATE =	DATE - 9/26/14	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MISC. CONSTRUCTION DETAILS  
CUBA ROAD BRIDGE RECONSTRUCTION

SCALE: N.T.S.	SHEET NO. 4 OF 5 SHEETS	STA. NA TO STA. NA	FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1260	12-00020-00-BR	LAKE	41	27A
			CONTRACT #: 61B04				
ILLINOIS FED. AID PROJECT							

**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

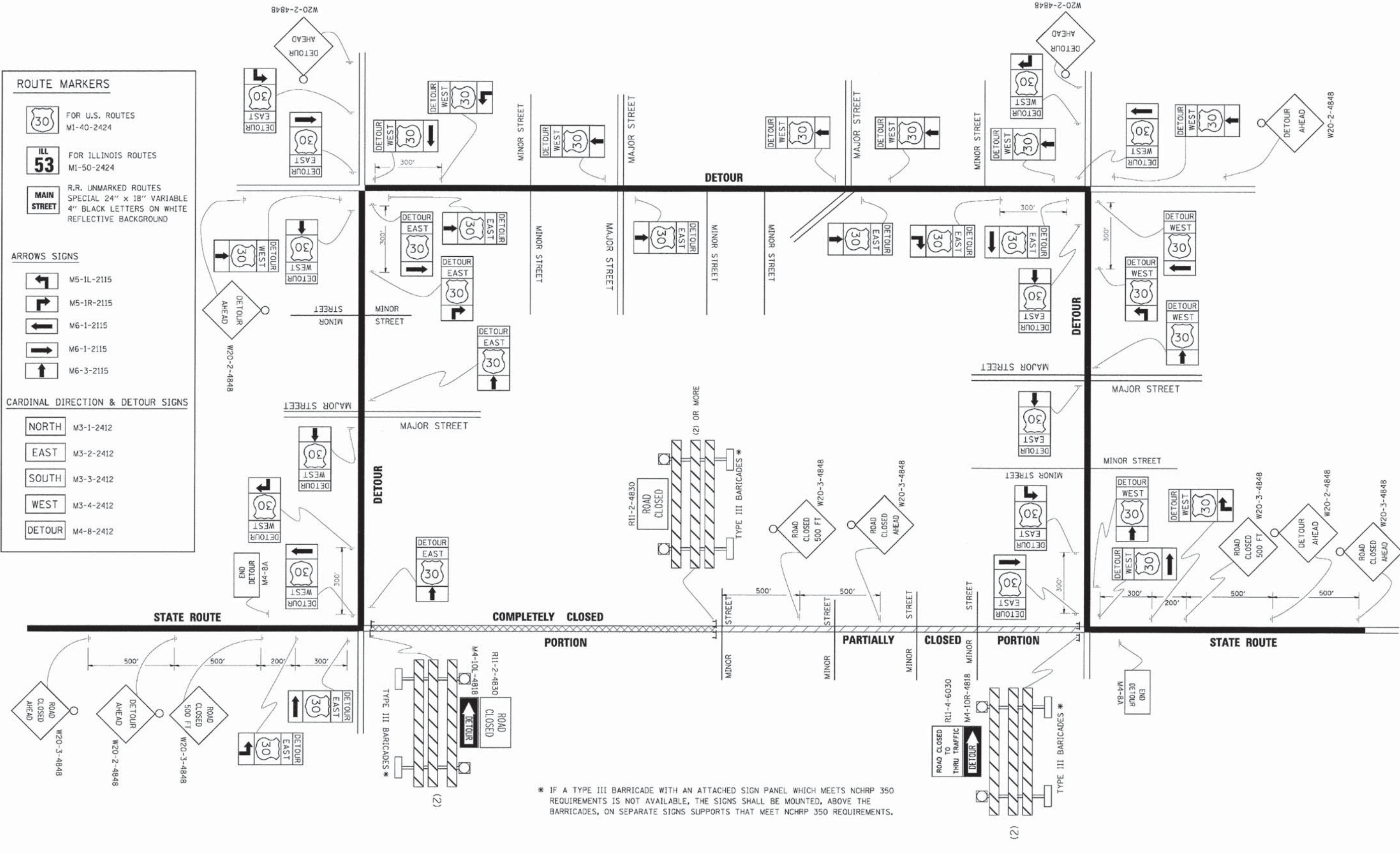
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drsvakosgn	DESIGNED -	REVISED - 10-18-02
21.dgn	21.dgn	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 1/4" = 10'		CHECKED -	REVISED -
PLOT DATE = 9/14/2009		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING  
FOR CLOSING STATE HIGHWAYS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-21			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO.	

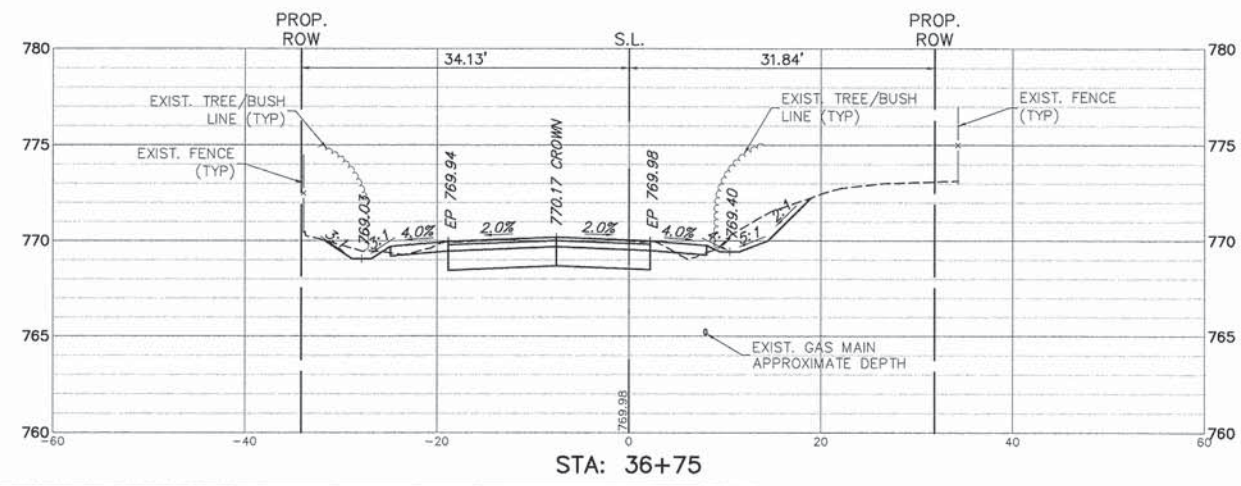
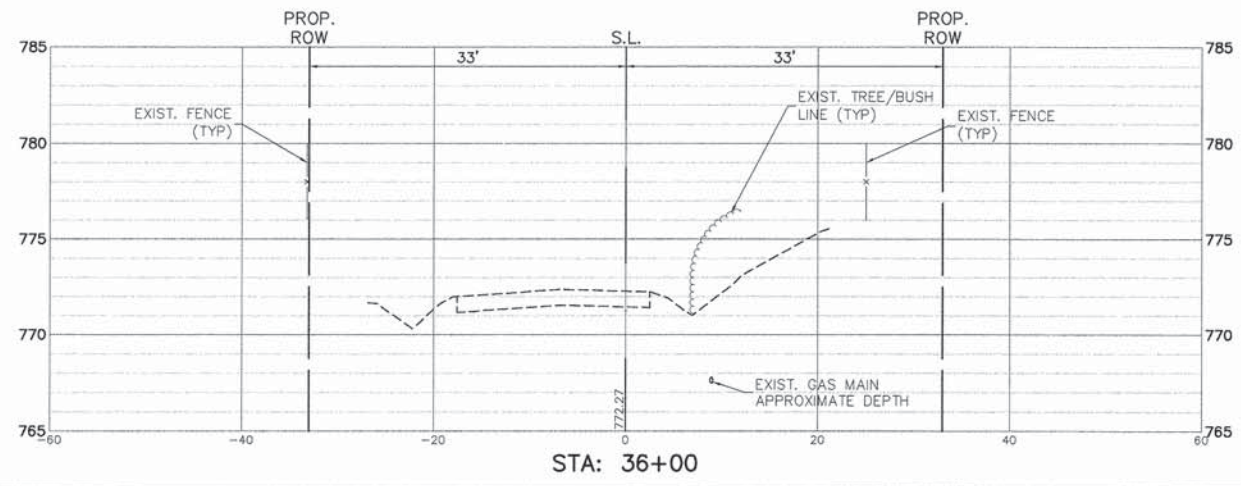
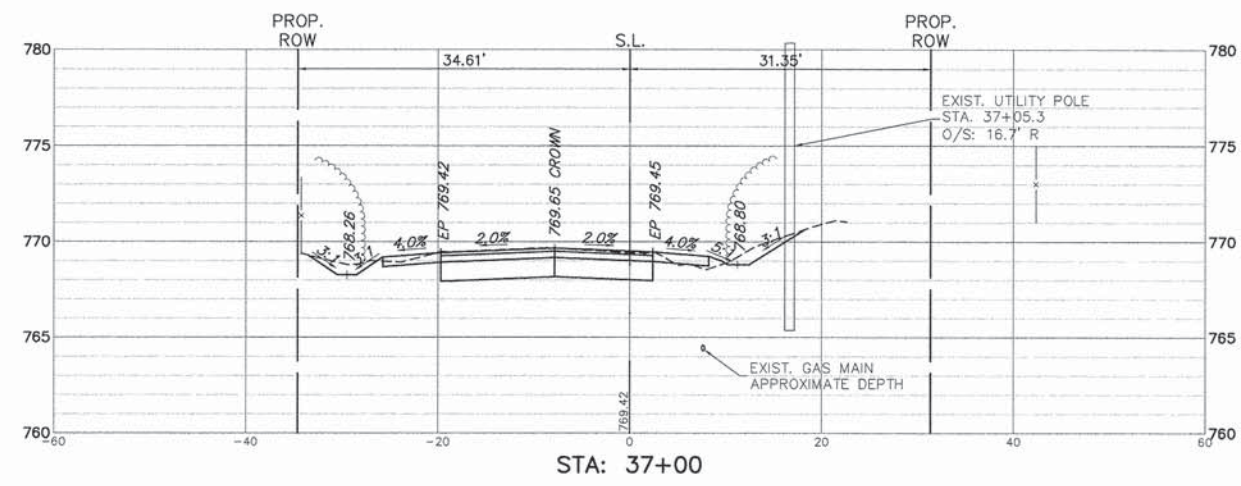
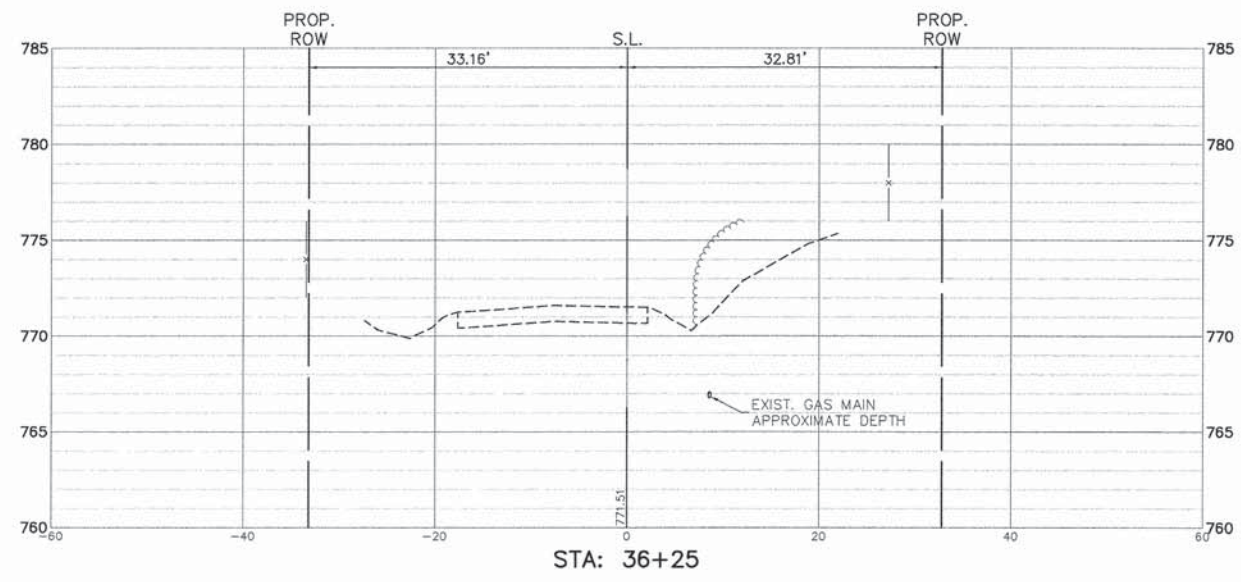
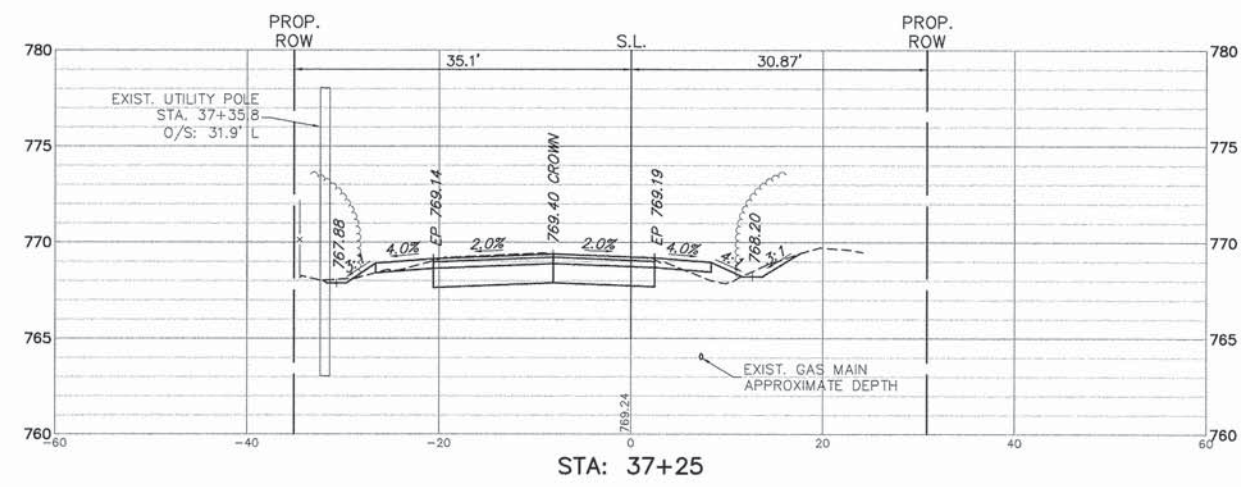
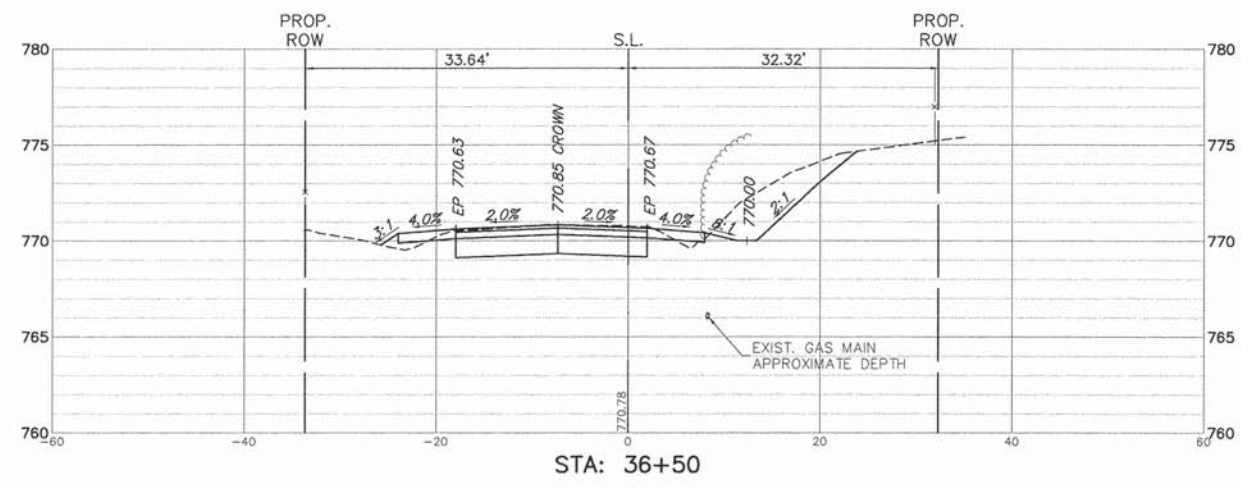
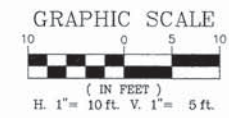
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		DRAWN - PJS	REVISED -
		CHECKED - DJS	REVISED -
		DATE - 9/26/14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

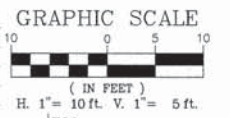
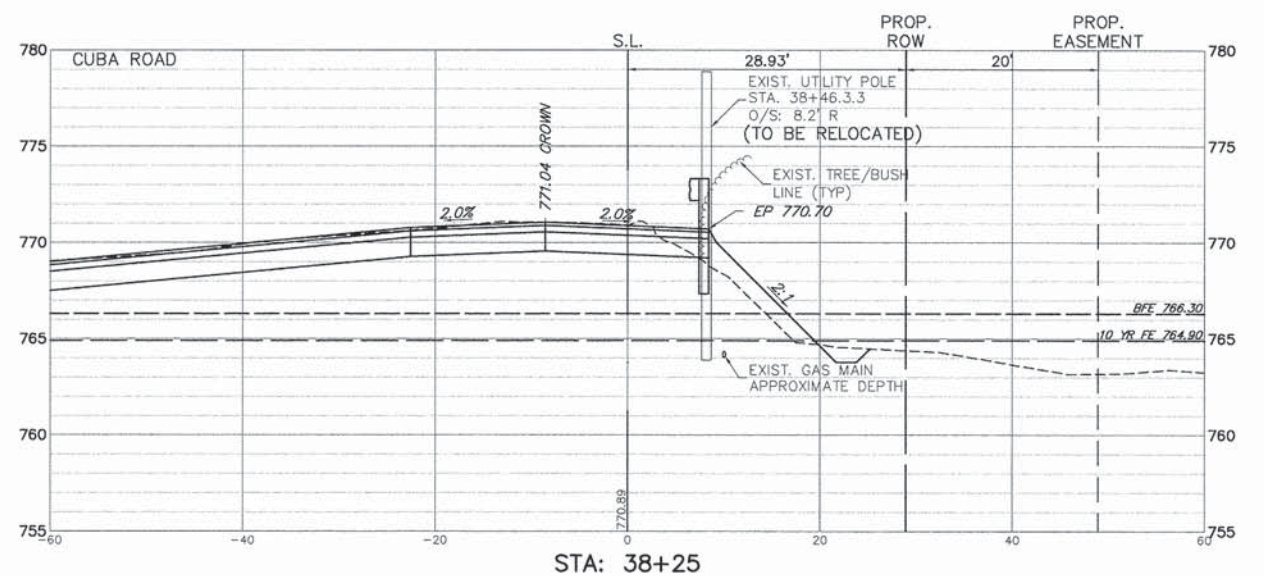
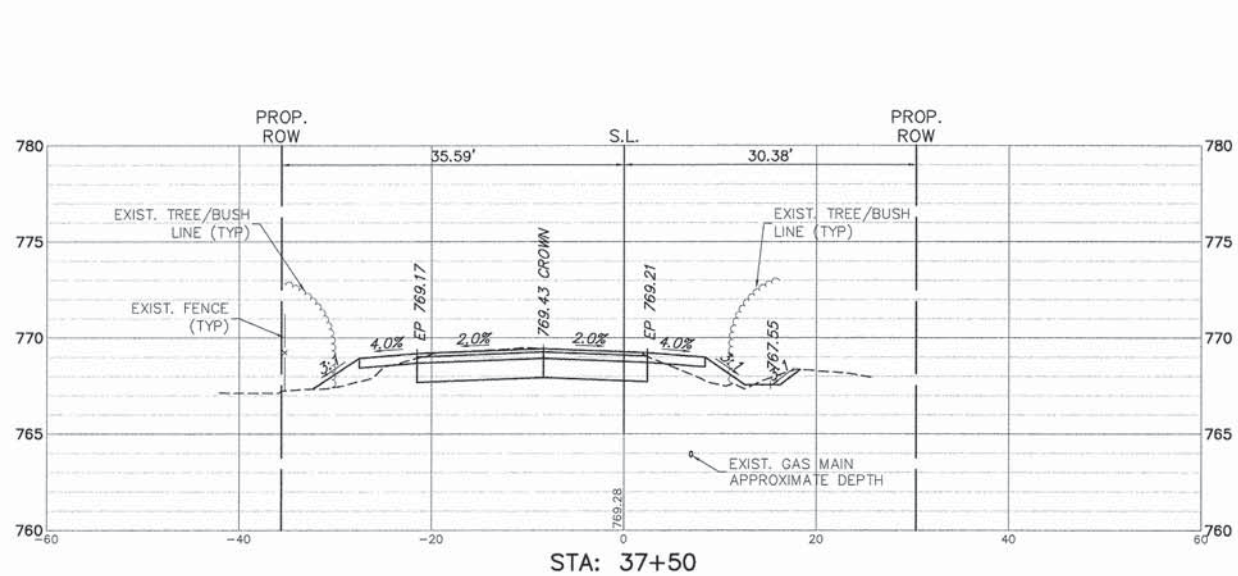
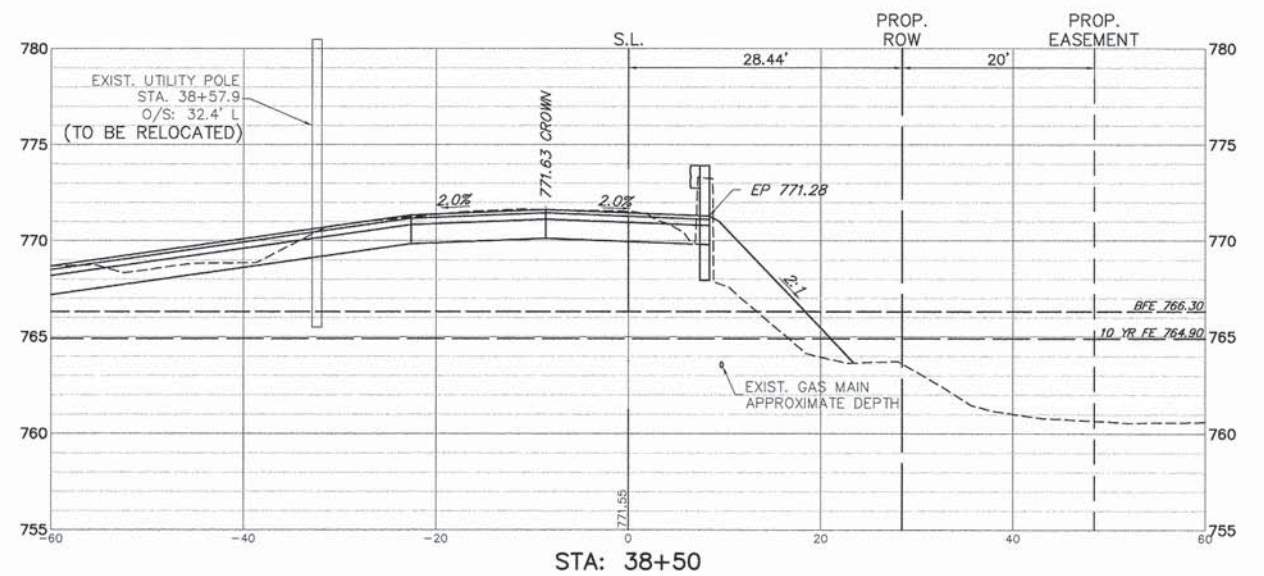
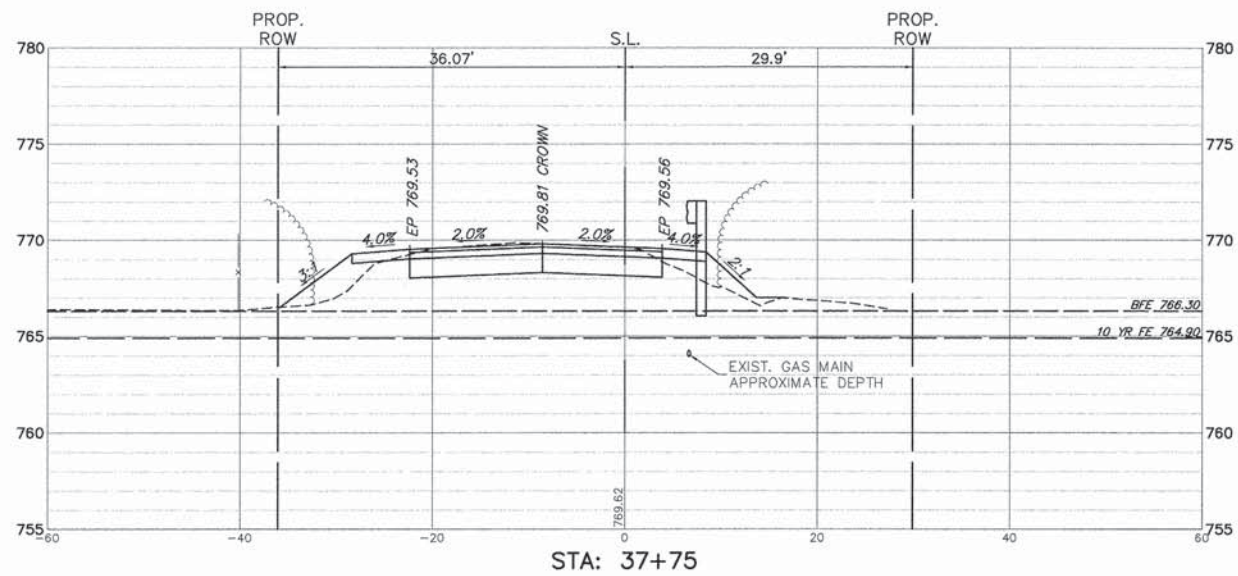
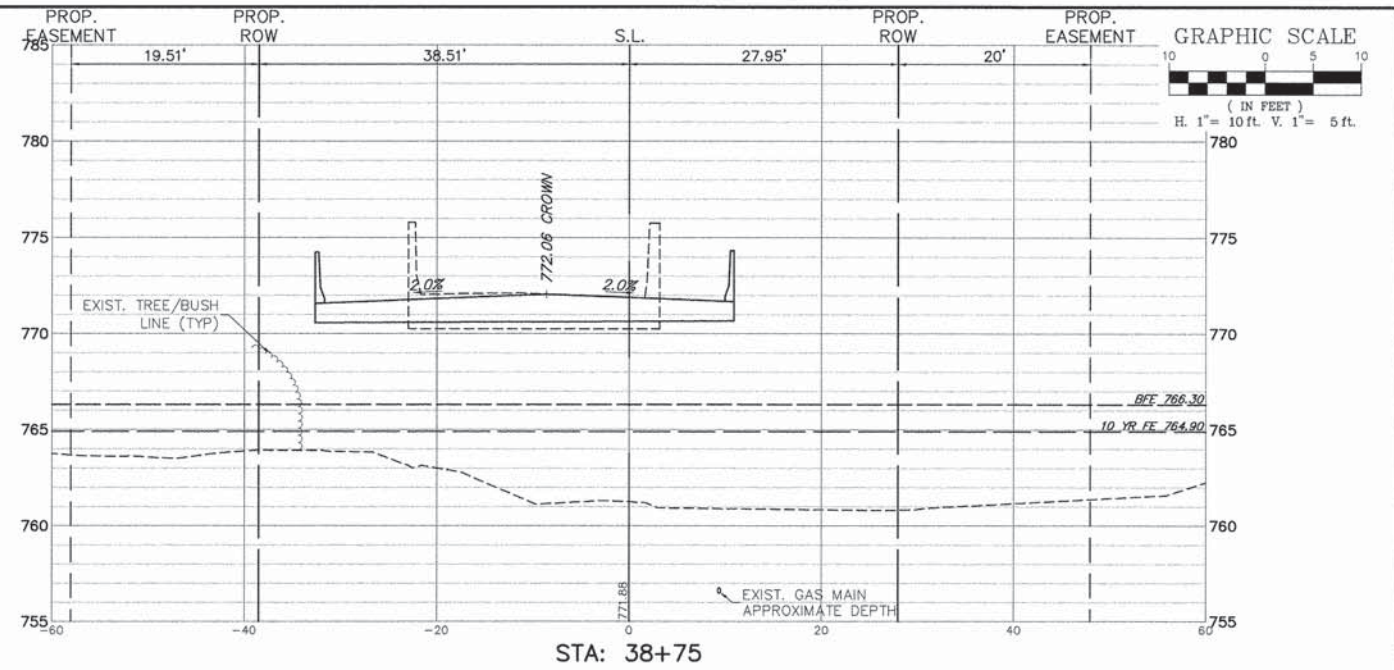
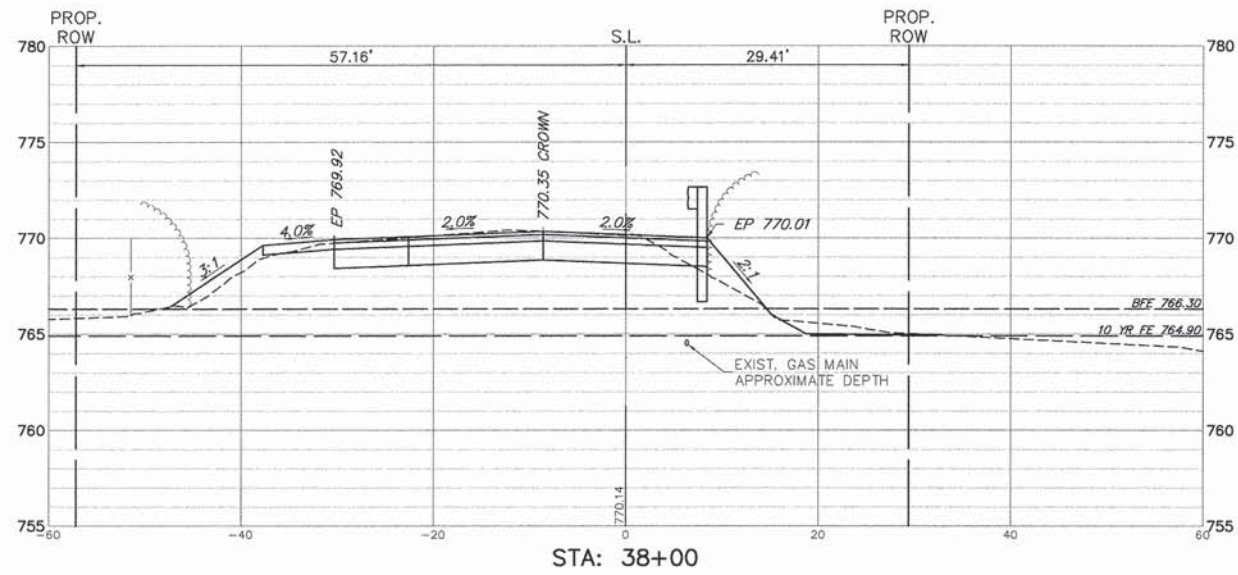
**MISC. CONSTRUCTION DETAILS  
CUBA ROAD BRIDGE RECONSTRUCTION**

SCALE: N.T.S. SHEET NO. 5 OF 5 SHEETS STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	27B
ILLINOIS FED. AID PROJECT			CONTRACT #: 61B04	



FILE NAME = 4853.000-Xsec.dwg	USER NAME = GEORGE WHITTEN	DESIGNED - DJS	REVISED - 10/28/14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - MERRI OAKS RD / CUBA RD CUBA ROAD BRIDGE RECONSTRUCTION</b>	FAU. RTE. 1260	SECTION 12-00020-00-BR	COUNTY LAKE	TOTAL SHEETS 41	SHEET NO. 28
	PLOT SCALE = 1" = .0833'	CHECKED - DJS	REVISED -			SCALE: H: 1"=10'	SHEET NO. 1 OF 8 SHEETS	STA. 36+00 TO STA. 37+25	CONTRACT #: 61B04	ILLINOIS FED. AID PROJECT
	PLOT DATE = 12/15/2014	DATE - 9/26/14	REVISED -							



FILE NAME = 4853.000-Xsec.dwg

USER NAME = GEORGE WHITTEN

DESIGNED - DJS REVISED - 10/28/14

PLOT SCALE = 1" = .0833'

DRAWN - PJS REVISED -

PLOT DATE = 12/15/2014

CHECKED - DJS REVISED -

DATE - 9/26/14 REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - MERRI OAKS RD / CUBA RD  
CUBA ROAD BRIDGE RECONSTRUCTION

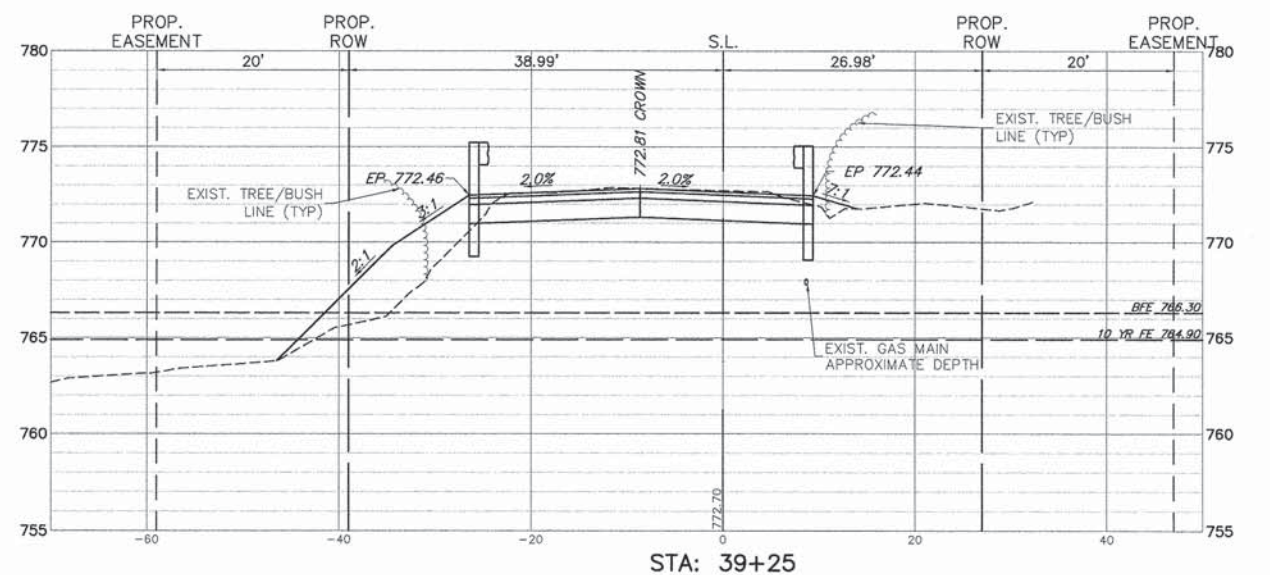
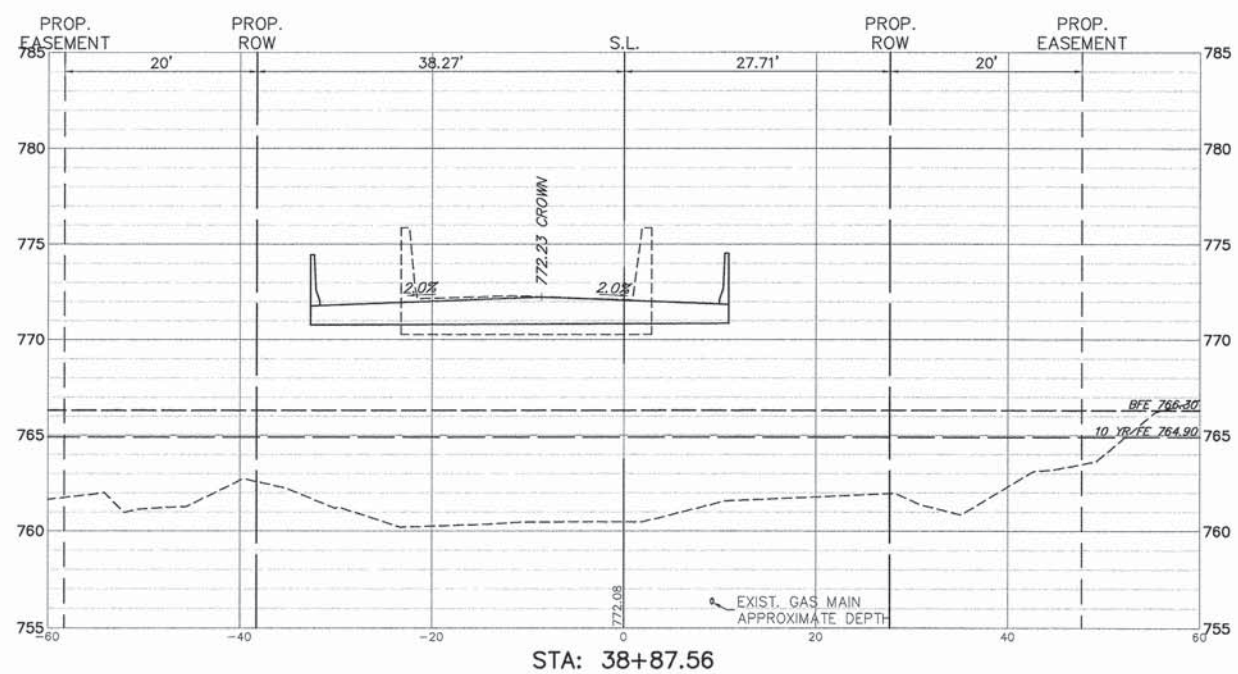
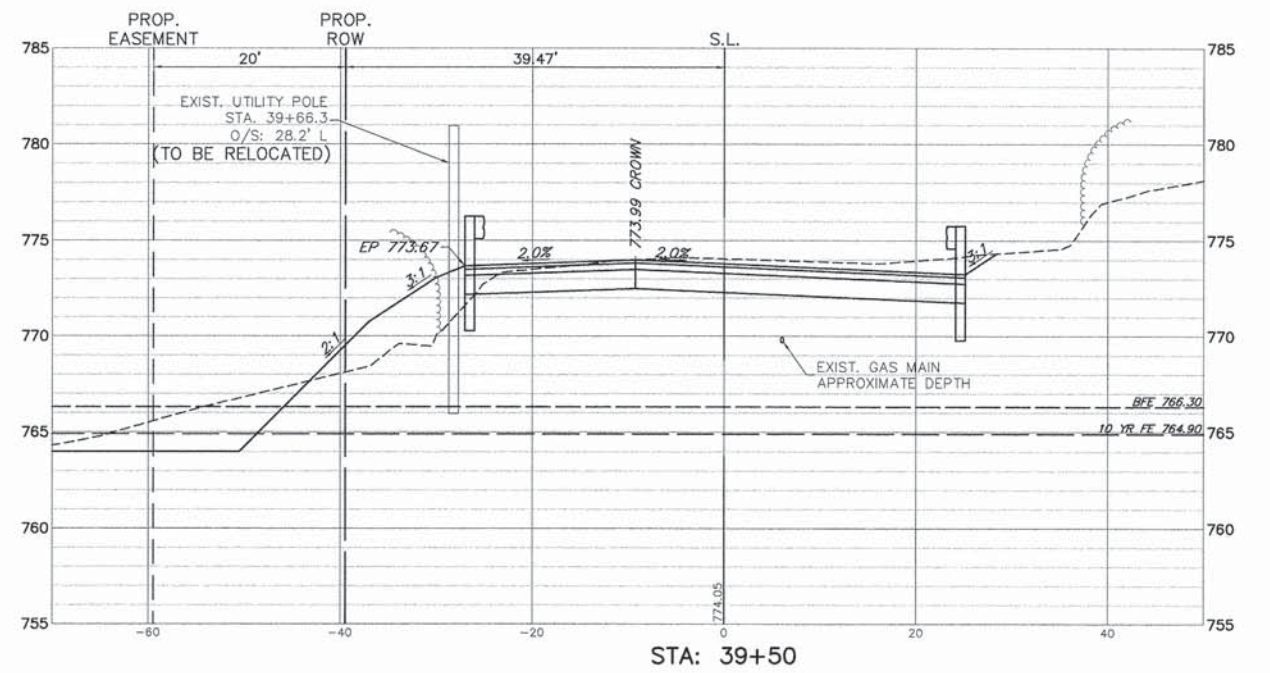
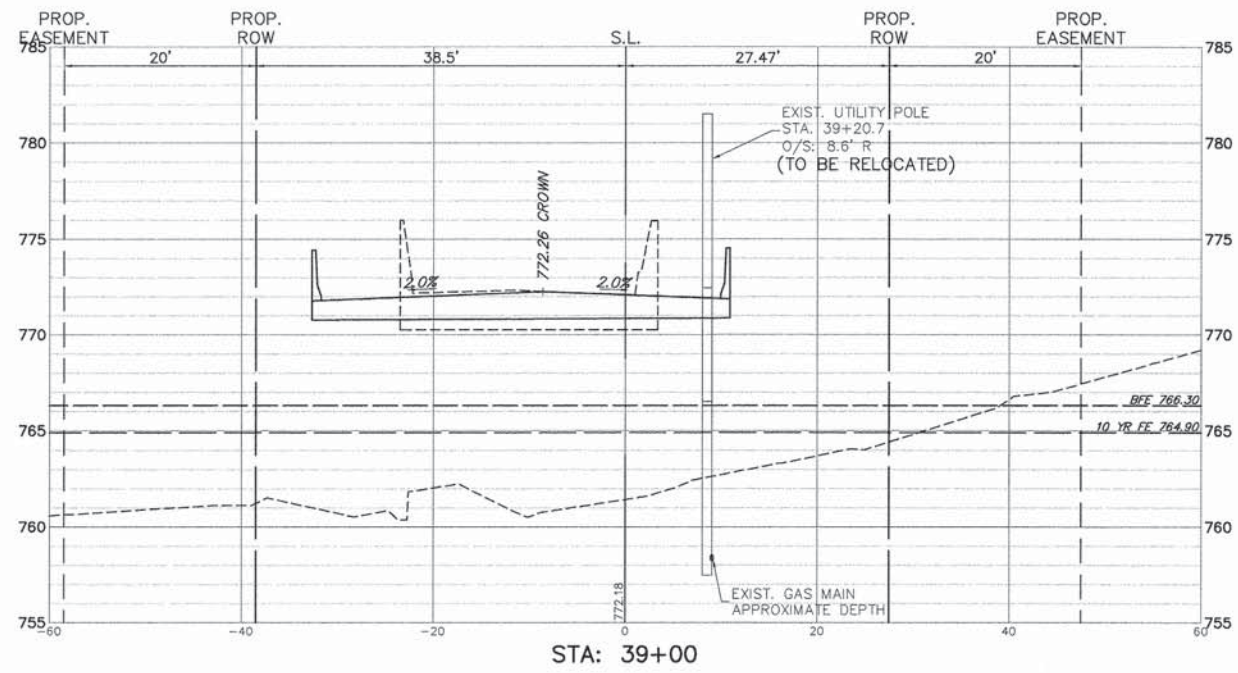
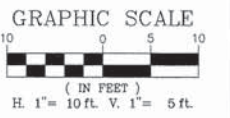
FAU. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.

1260 12-00020-00-BR LAKE 41 29

CONTRACT #: 61B04

SCALE H: 1"=10' SHEET NO. 2 OF 8 SHEETS STA. 37+50 TO STA. 38+75

ILLINOIS FED. AID PROJECT



FILE NAME = 4853.000-Xsec.dwg	USER NAME = GEORGE WHITTEN	DESIGNED - DJS	REVISED - 10/28/14
		DRAWN - PJS	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - DJS	REVISED -
	PLOT DATE = 12/15/2014	DATE - 9/26/14	REVISED -

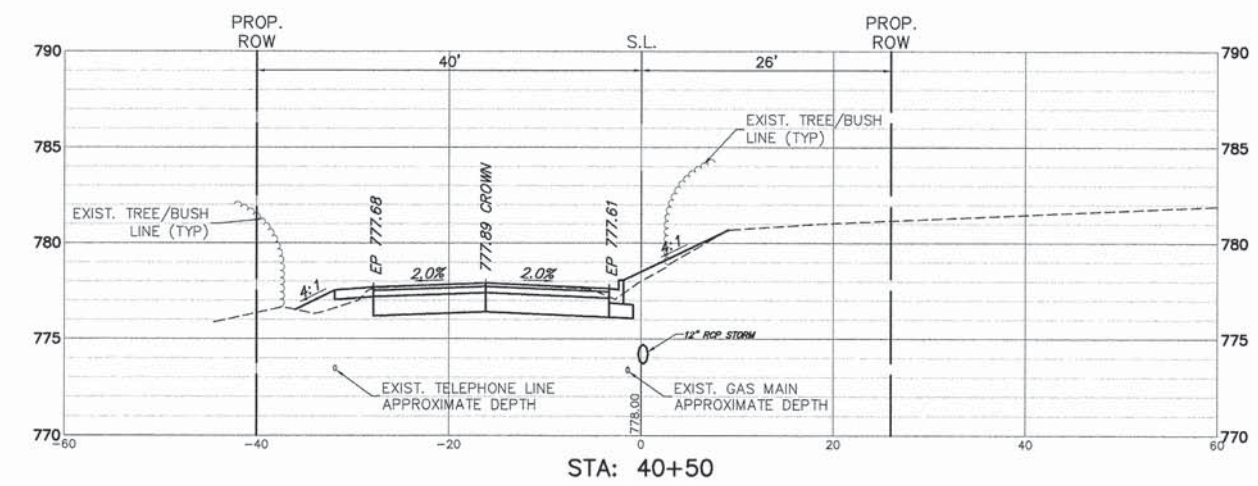
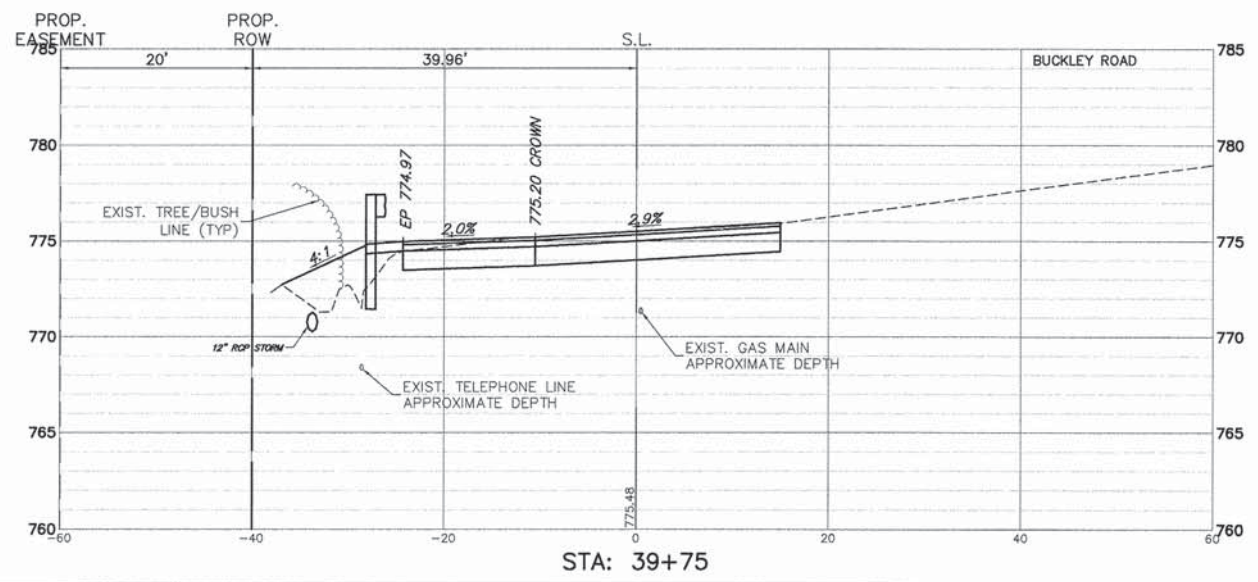
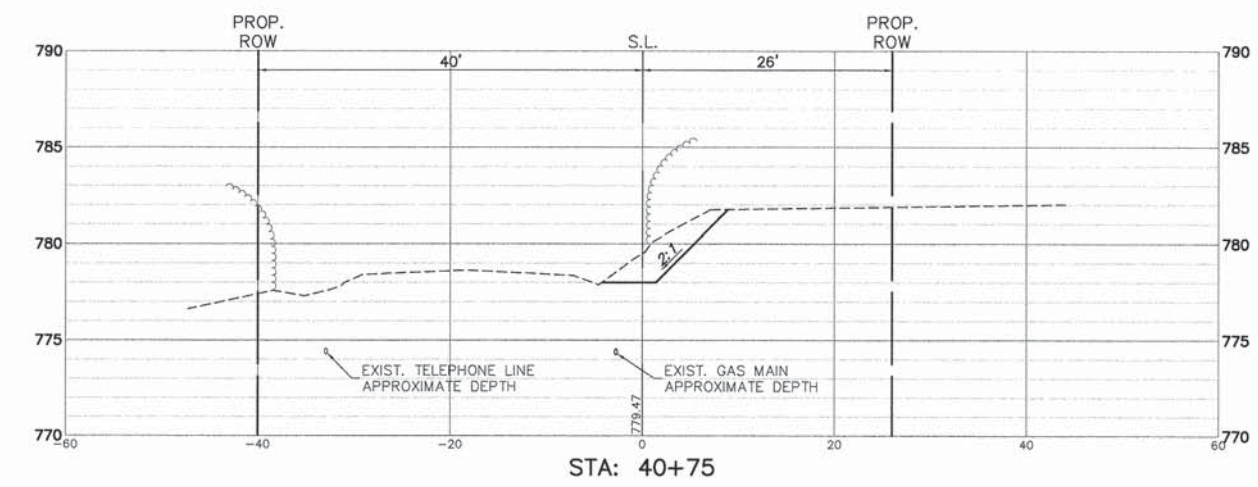
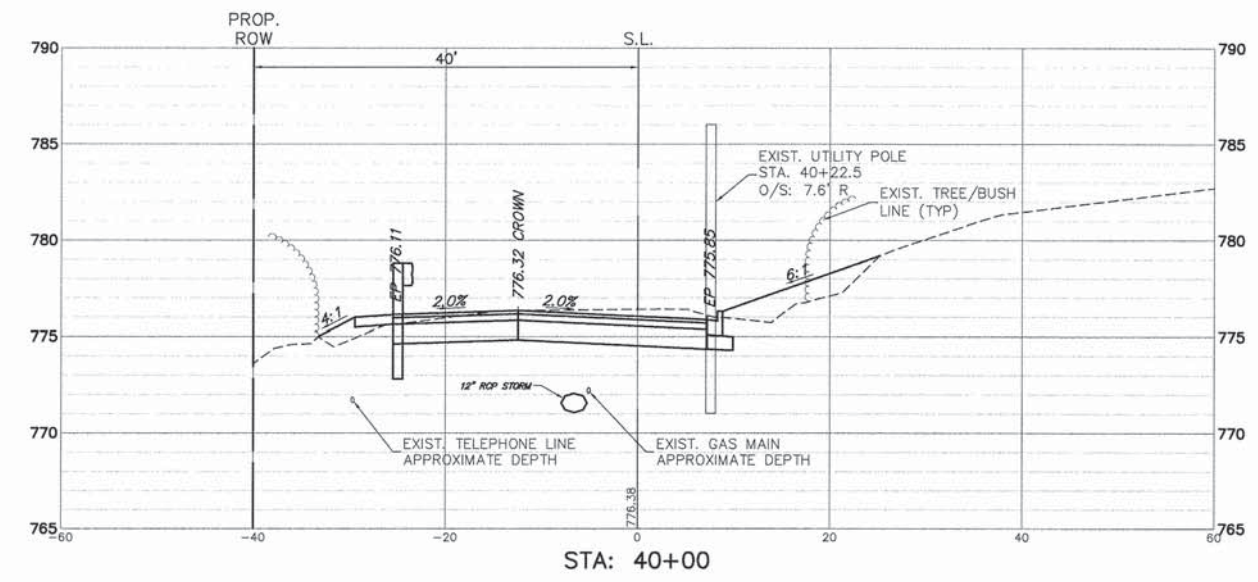
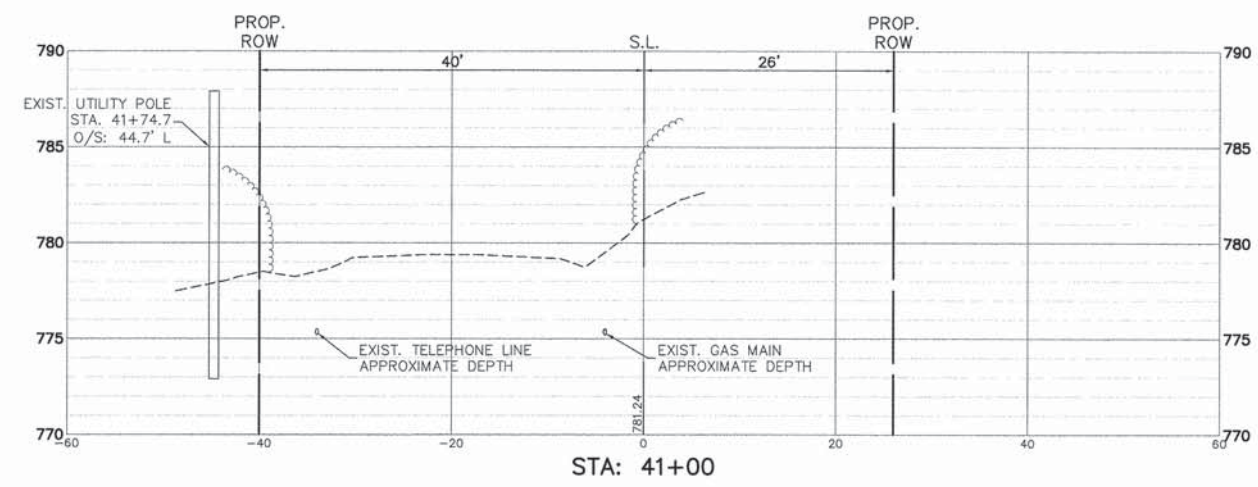
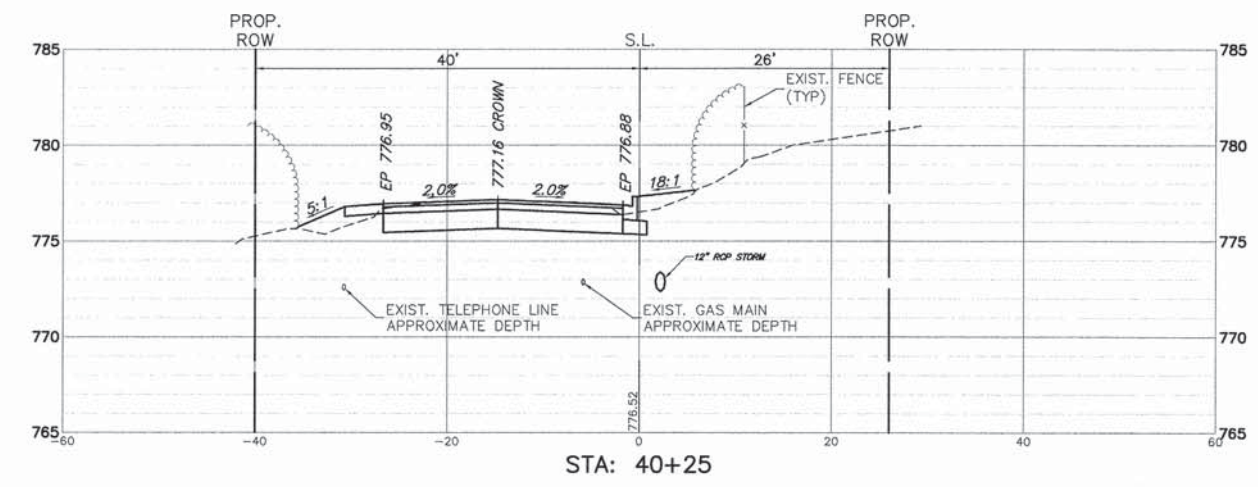
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - MERRI OAKS RD / CUBA RD  
CUBA ROAD BRIDGE RECONSTRUCTION**

SCALE: H: 1"=10' SHEET NO. 3 OF 8 SHEETS STA. 38+87 TO STA. 39+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	30
CONTRACT #:			61B04	
ILLINOIS FED. AID PROJECT				



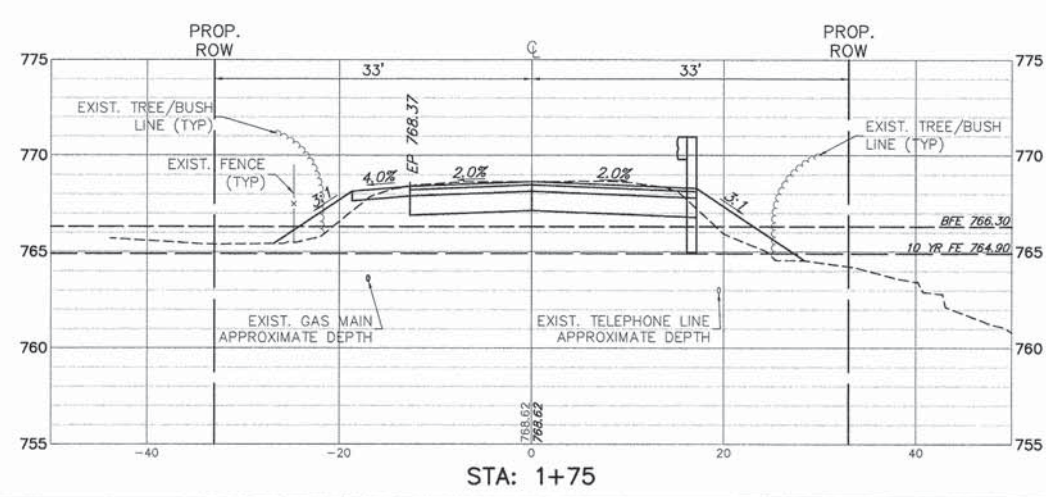
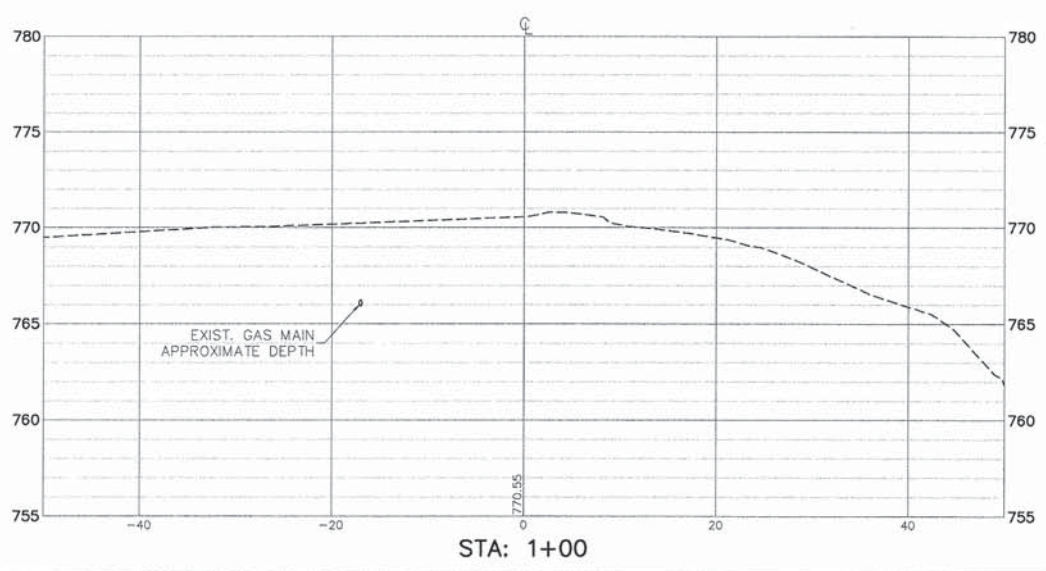
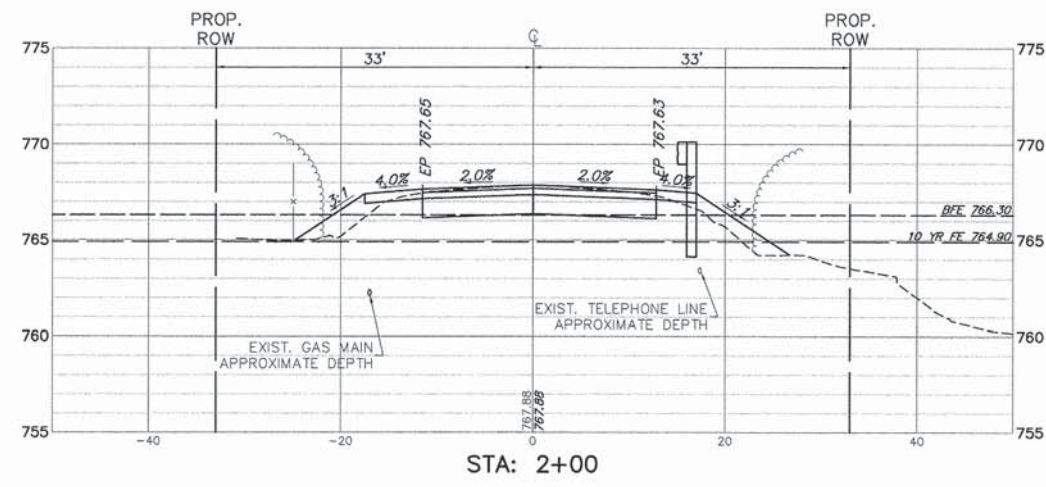
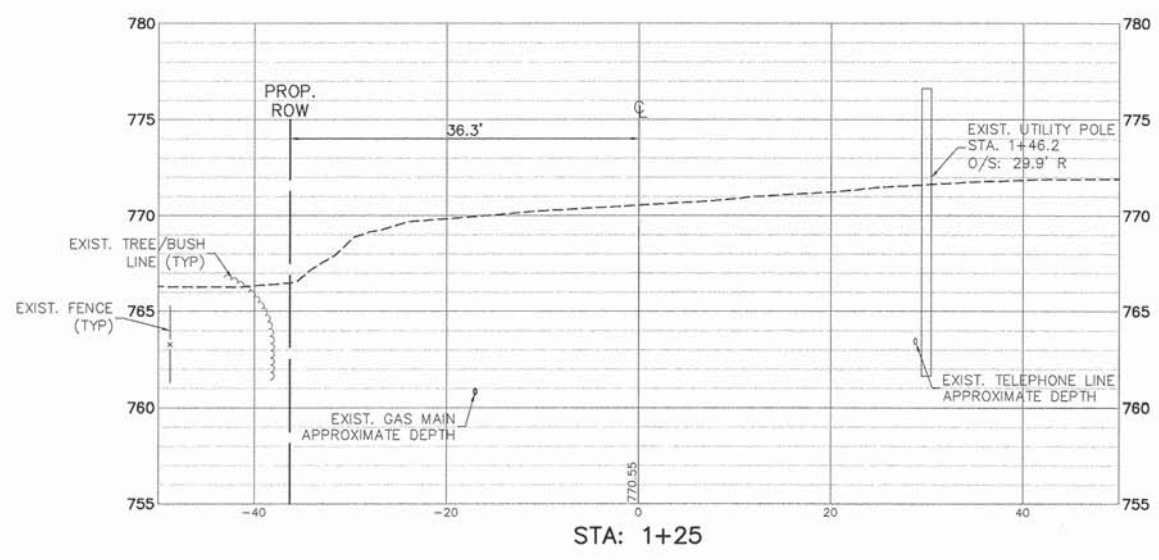
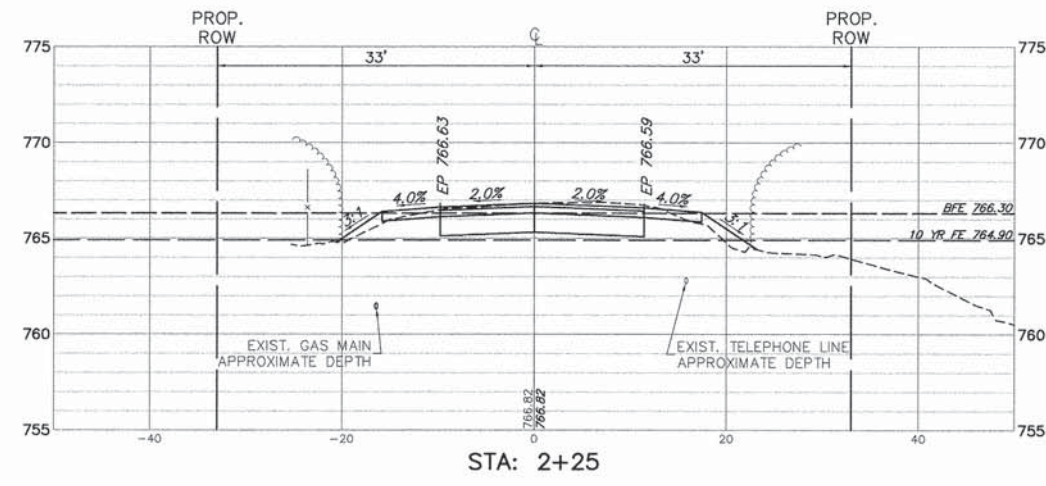
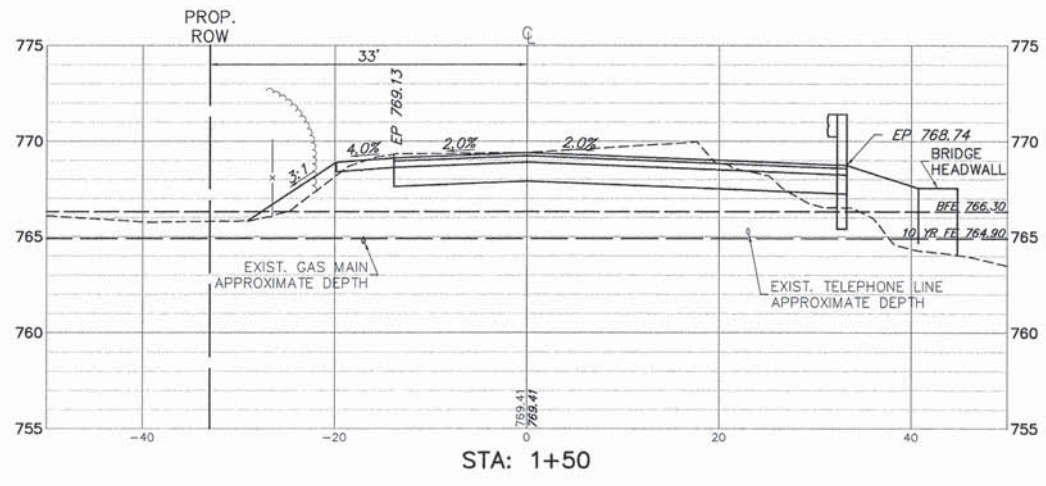


FILE NAME = 4853.000-Xsec.dwg	USER NAME = DAN STRAHAN	DESIGNED - DJS	REVISED - 10/28/14
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PLOT DATE = 05/25/2015		DATE - 9/26/14	REVISED -

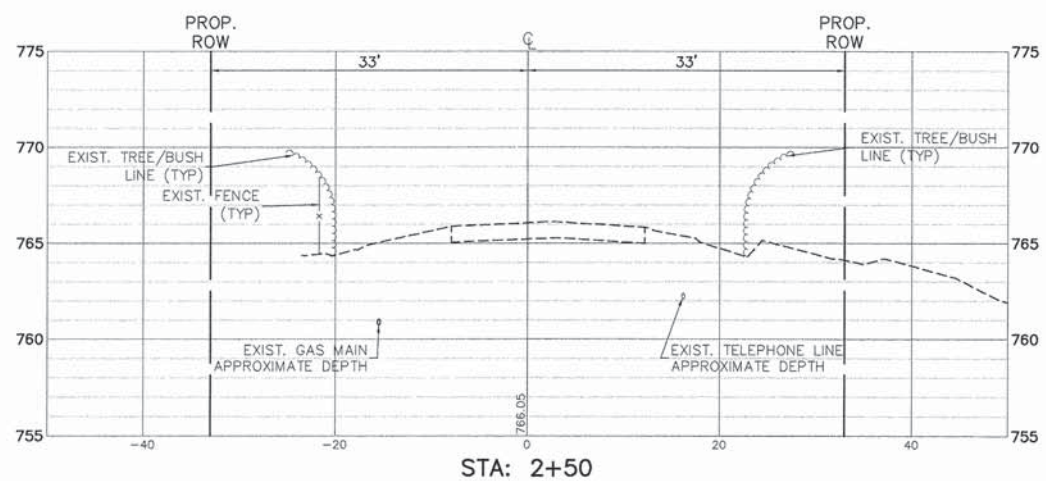
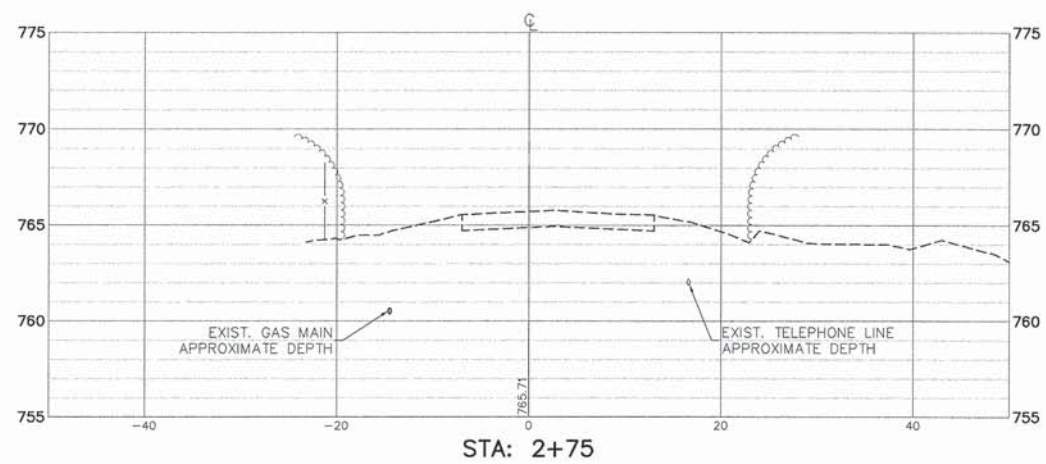
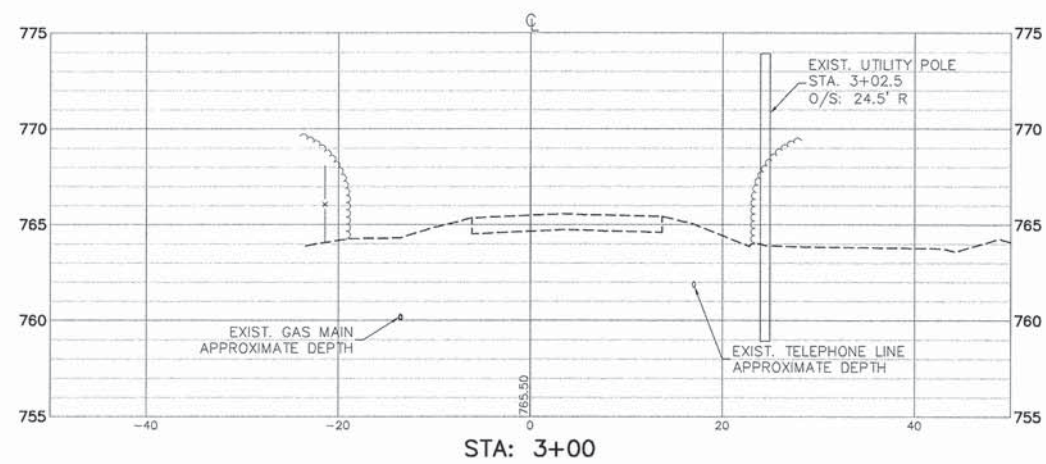
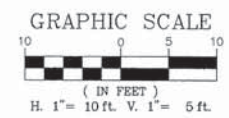
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - MERRI OAKS RD / CUBA RD  
CUBA ROAD BRIDGE RECONSTRUCTION**

FAU. RTE. 1260	SECTION 12-00020-00-BR	COUNTY LAKE	TOTAL SHEETS 41	SHEET NO. 31
SCALE: H: 1"=10'			SHEET NO. 4 OF 8 SHEETS	
STA. 39+75 TO STA. 41+00			CONTRACT #: 61B04	
ILLINOIS FED. AID PROJECT				



FILE NAME = 4853.000-Xsec.dwg	USER NAME = GEORGE WHITTEN	DESIGNED - DJS	REVISED - 10/28/14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - NORTH CUBA RD CUBA ROAD BRIDGE RECONSTRUCTION</b>	FALL RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 1" = .0833'	DRAWN - PJS	CHECKED - DJS	REVISED -			1260	12-00020-00-BR	LAKE	41	32	
PLOT DATE = 12/15/2014	DATE - 9/26/14	REVISED -	REVISED -			SCALE H: 1"=10' SHEET NO. 5 OF 8 SHEETS STA. 1+00 TO STA. 2+25		CONTRACT # 61B04		ILLINOIS FED. AID PROJECT	



FILE NAME = 4853.000-Xsec.dwg

USER NAME = GEORGE WHITTEN

DESIGNED - DJS  
 DRAWN - PJS  
 CHECKED - DJS  
 DATE - 9/26/14

REVISED - 10/28/14  
 REVISED -  
 REVISED -  
 REVISED -

PLOT SCALE = 1" = .0833'

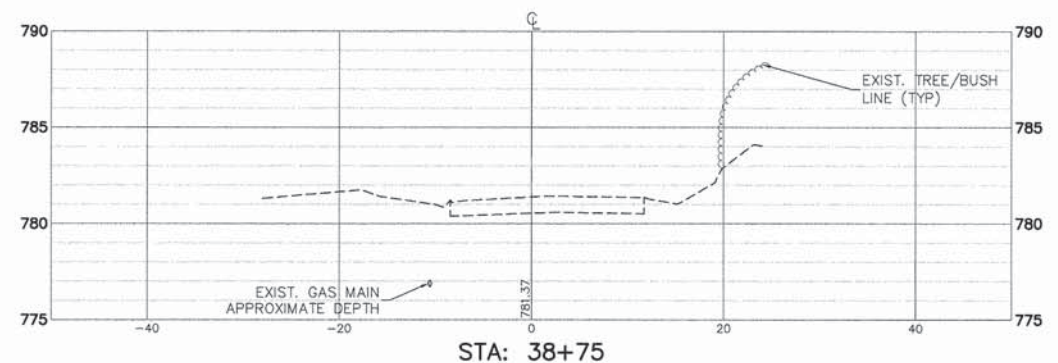
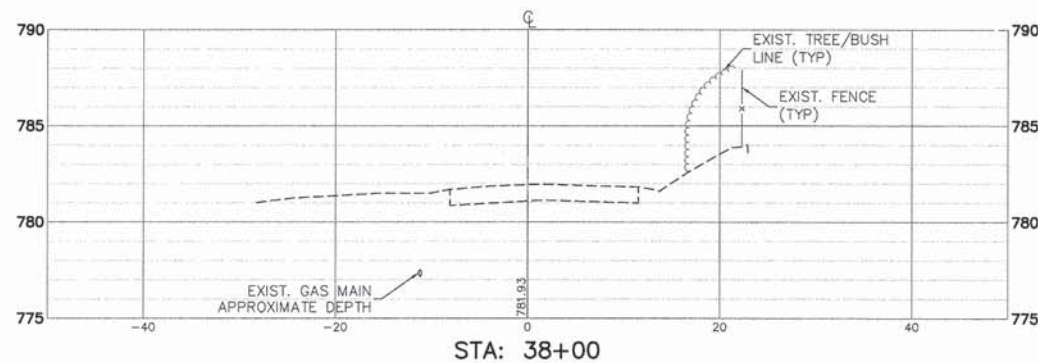
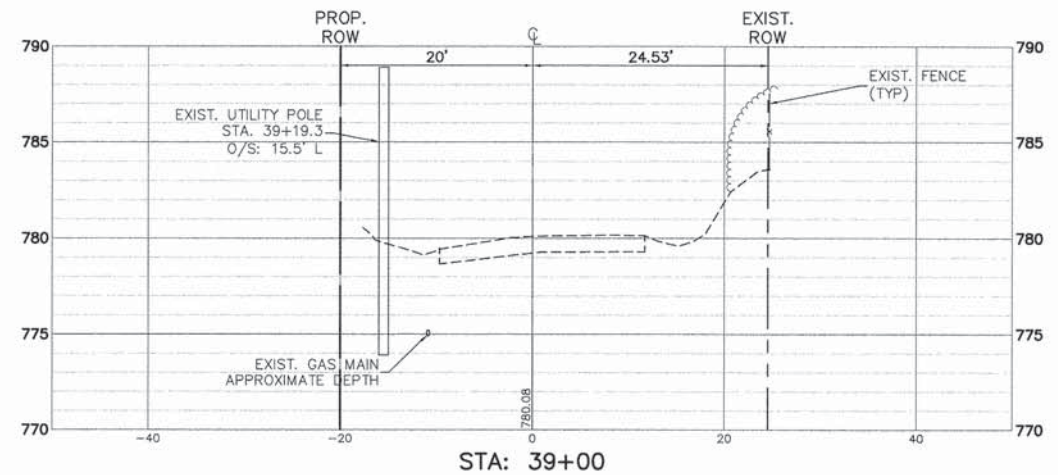
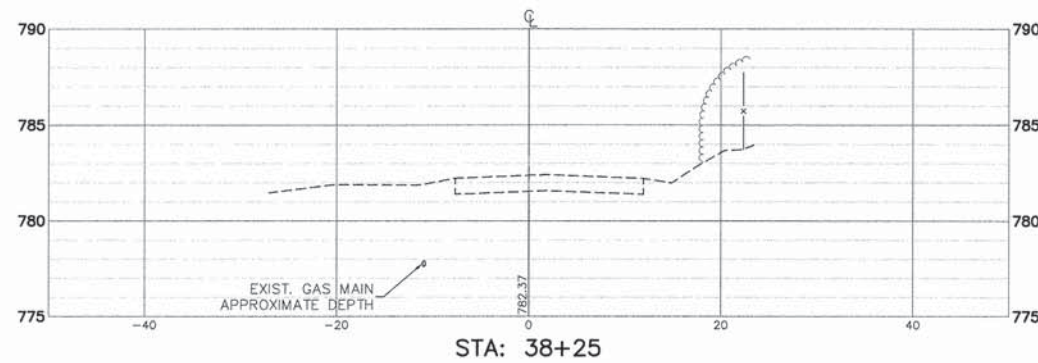
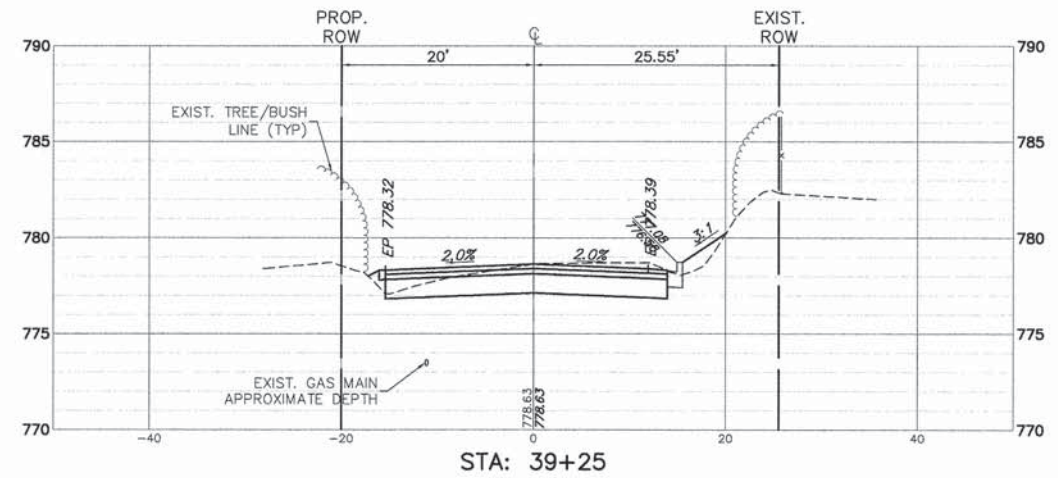
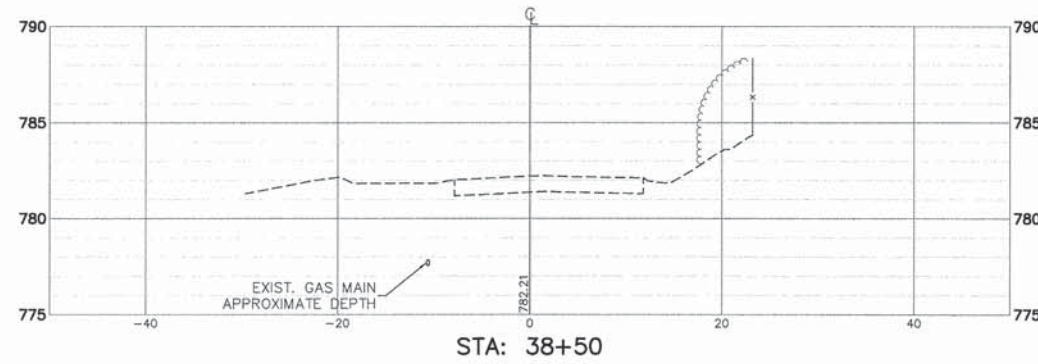
PLOT DATE = 12/15/2014

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - NORTH CUBA RD  
 CUBA ROAD BRIDGE RECONSTRUCTION**

SCALE: H: 1"=10' SHEET NO. 6 OF 8 SHEETS STA. 2+50 TO STA. 3+00

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	33
CONTRACT #:			61B04	
ILLINOIS FED. AID PROJECT				



FILE NAME = 4853.000-Xsec.dwg

USER NAME = DAN STRAHAN

DESIGNED - DJS

REVISED - 10/28/14

PLOT SCALE = 1" = .0833'

DRAWN - PJS

REVISED - 1/14/15

PLOT DATE = 05/25/2015

CHECKED - DJS

REVISED -

DATE - 9/26/14

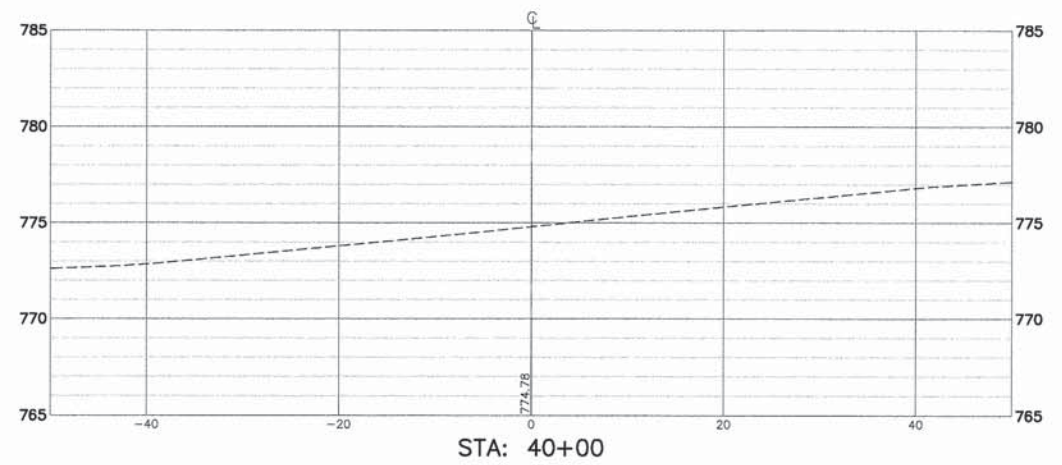
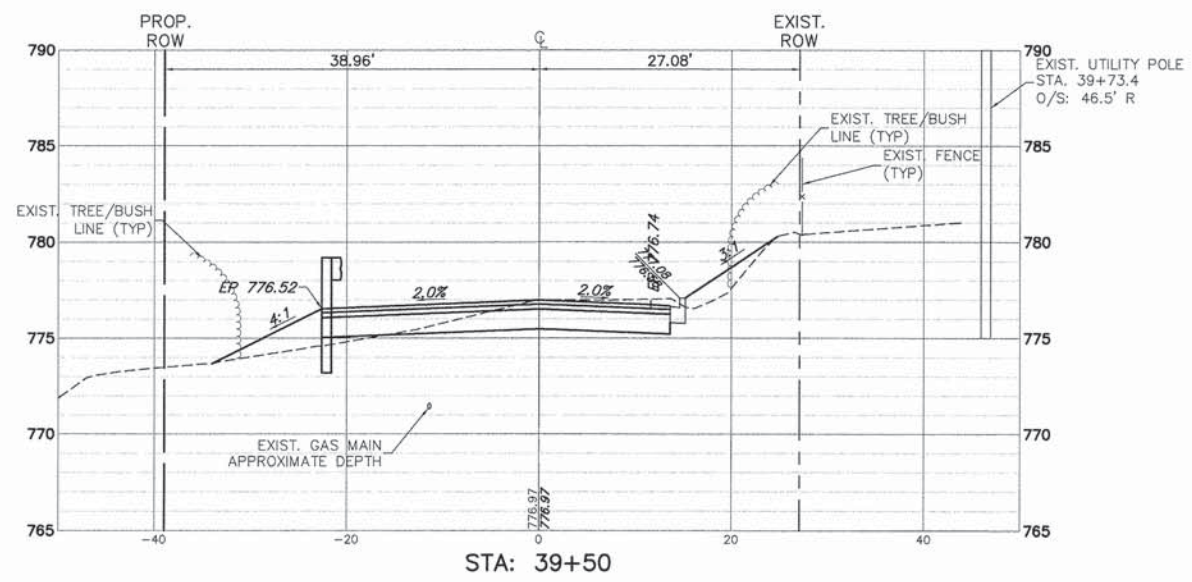
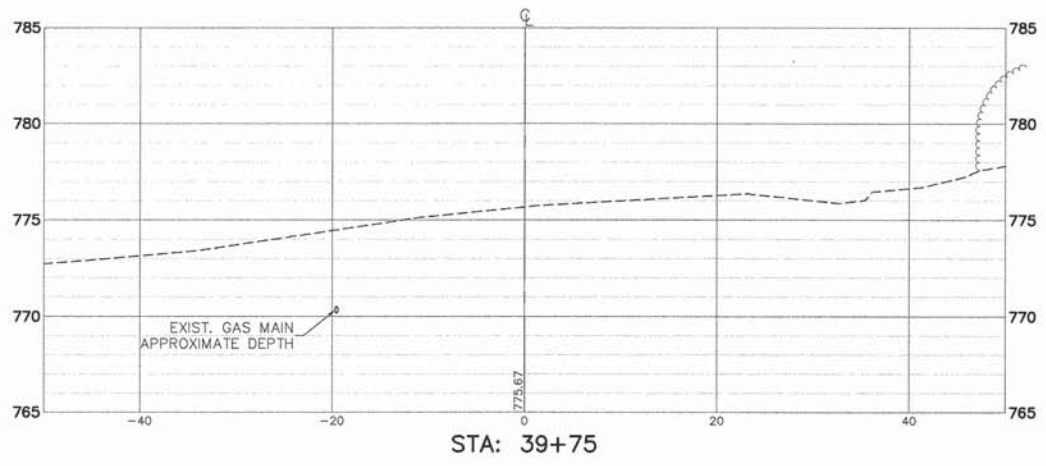
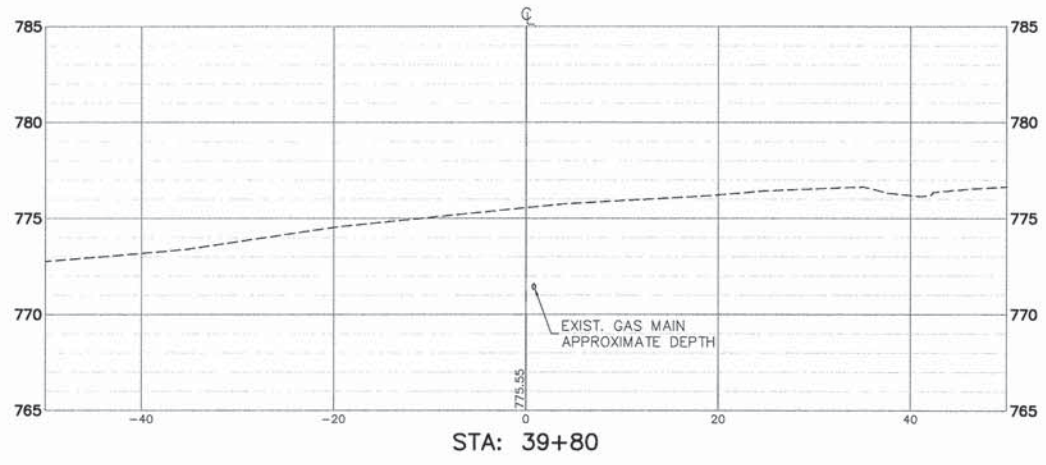
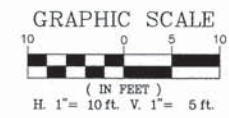
REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - BUCKLEY RD  
 CUBA ROAD BRIDGE RECONSTRUCTION

SCALE: H: 1"=10' SHEET NO. 7 OF 8 SHEETS STA. 38+00 TO STA. 39+25

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	12-00020-00-BR	LAKE	41	34
CONTRACT #:			61B04	
ILLINOIS FED. AID PROJECT				



FILE NAME = 4853.000-Xsec.dwg	USER NAME = DAN STRAHAN	DESIGNED - DJS	REVISED - 10/28/14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - BUCKLEY RD CUBA ROAD BRIDGE RECONSTRUCTION</b>		FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1" = .0833'	DRAWN - PJS	REVISED - 1/14/15				1260	12-00020-00-BR	LAKE	41	35
	PLOT DATE = 05/25/2015	CHECKED - DJS	REVISED -				CONTRACT #:		61B04		
	DATE - 9/26/14	REVISED -		SCALE H: 1"=10'		SHEET NO. 8 OF 8 SHEETS	STA. 39+50	TO STA. 40+00	ILLINOIS FED. AID PROJECT		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260		LAKE	6	1

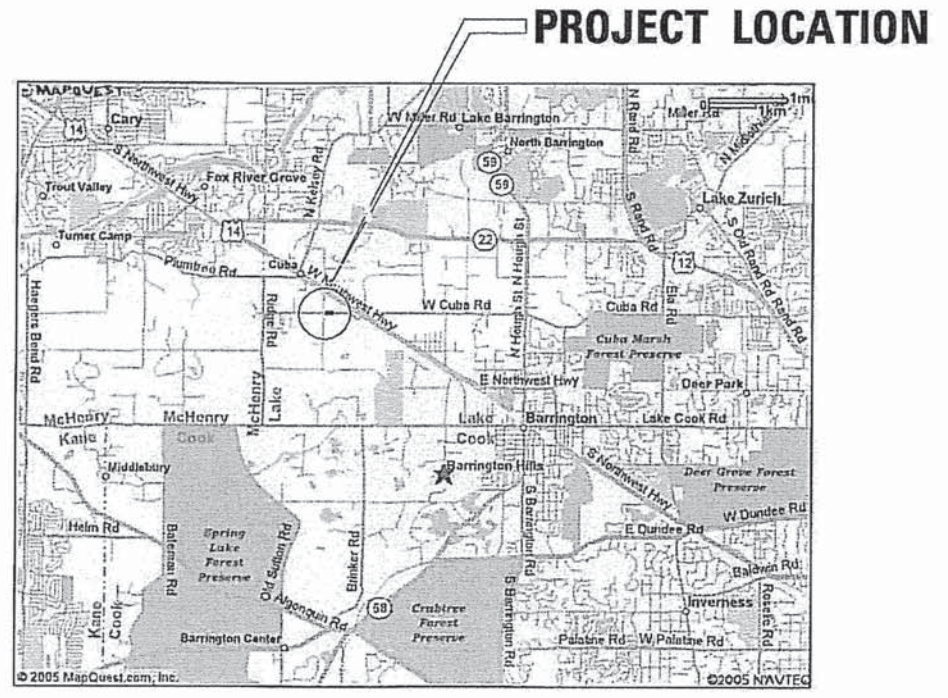
# VILLAGE OF BARRINGTON HILLS

## LAKE COUNTY, ILLINOIS

# PROPOSED RESURFACING PLANS CUBA ROAD OVER FLINT CREEK

### INDEX OF SHEETS

- 1-COVER SHEET
- 2-GENERAL NOTES AND TOTAL BILL OF MATERIAL
- 3-PLAN & PROFILE
- 4-ROADWAY TYPICAL SECTIONS
- 5-SUPERSTRUCTURE PLAN & CROSS SECTION
- 6-SUPERSTRUCTURE DETAILS



### VICINITY MAP

FOR INFORMATION ONLY

PLANS APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

PLANS PREPARED BY:

**WJE** *Wiss, Janney, Elstner Associates, Inc.*  
 Engineers, Architects, Material Scientists  
 330 Pilington Road, Northbrook, IL 60062  
 (847) 272-7400, Fax (847) 291-4813  
 WJE No. 2005.1315

CONTRACT NO.

DATE: 10/20/2005 FILENAME: p:\2005\1301-1400\2005.1315\Other\MICROSTATION\2006.1316-COVERSHEET.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260		LAKE	6	2
STA. 0+96.01		TO STA. 1+75.98		
ILLINOIS				

**GENERAL NOTES:**

Plan dimensions and details relative to existing structure have been taken from survey data 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.

Prior to pouring the new concrete overlay, all bituminous materials, unsound concrete and other loose potentially detrimental foreign material shall be removed from the surfaces of the concrete deck planks in contact with concrete. One day prior to placing the new concrete overlay, the concrete deck planks shall be power-washed. At the time of the overlay placement, the top surfaces of the existing concrete planks shall be saturated surface dry (SSD). The cost of this work will be included in the pay item covering removal of the existing bituminous pavement. The concrete overlay is to be placed in a single day's pour.

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 except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR permit number which was issued for the permanent construction.

The Contractor shall obtain all required permits prior to commencing construction. Any cost associated with obtaining the required permits shall be considered incidental to the contract.

During the construction operation when any loose material is deposited in the flow line of the floor drain so the natural flow of water is obstructed, the material shall be removed at the close of each working day. At the conclusion of the construction operations, all drainage structures shall be free from all dirt and debris. This work shall not be paid for separately but shall be considered incidental to the contract.

The Contractor and any subcontractor retained by him shall comply with the state and federal requirements of the Occupational Safety and Health Act (OSHA).

All new concrete overlay shall be normal weight concrete with the following requirements:

Minimum 28-day compressive strength of 6,000 psi. The content mix shall have an air content between 6 and 8 percent of the volume of the concrete. The Contractor shall submit concrete mix designs to the Engineer for approval.

Reinforcement bars shall conform to the requirements of AASHTO M 31W, M 42M or M 53 Grade 60. Concrete clear cover of 2".

Reinforcement bars designated (E) shall be epoxy coated. Damage to the epoxy coating during handling, placement, etc. shall be repaired with a compatible epoxy.

All accessories, including bolsters, chairs, tie wire, etc. used to tie or support the epoxy coated bars shall be epoxy coated.

All drilled-in reinforcing bar dowels shall be set with an IDOT pre-qualified epoxy adhesive grouting material meeting the requirements of the Standard Specifications. Reinforcing bars to be epoxy-grouted may be epoxy coated, as shown on the plans. Installation of drilled-in bar dowels per Supplemental Specifications.

Traffic control devices shall conform to Section 700 of the IDOT Highway Standards and the Manual on Uniform Traffic Control Devices (MUTCD). Contractor shall submit traffic control plan for review prior to road closure.

**EXISTING STRUCTURE:**

Structure Number 049-6049  
 40'-0" Back to Back of Abutments,  
 26'-0" out to out Bridge Deck,  
 Reinforced Concrete Beams on Closed  
 Abutments Approximately 35' Long,  
 Bridge Constructed 1974,  
 Existing Structure to Remain.

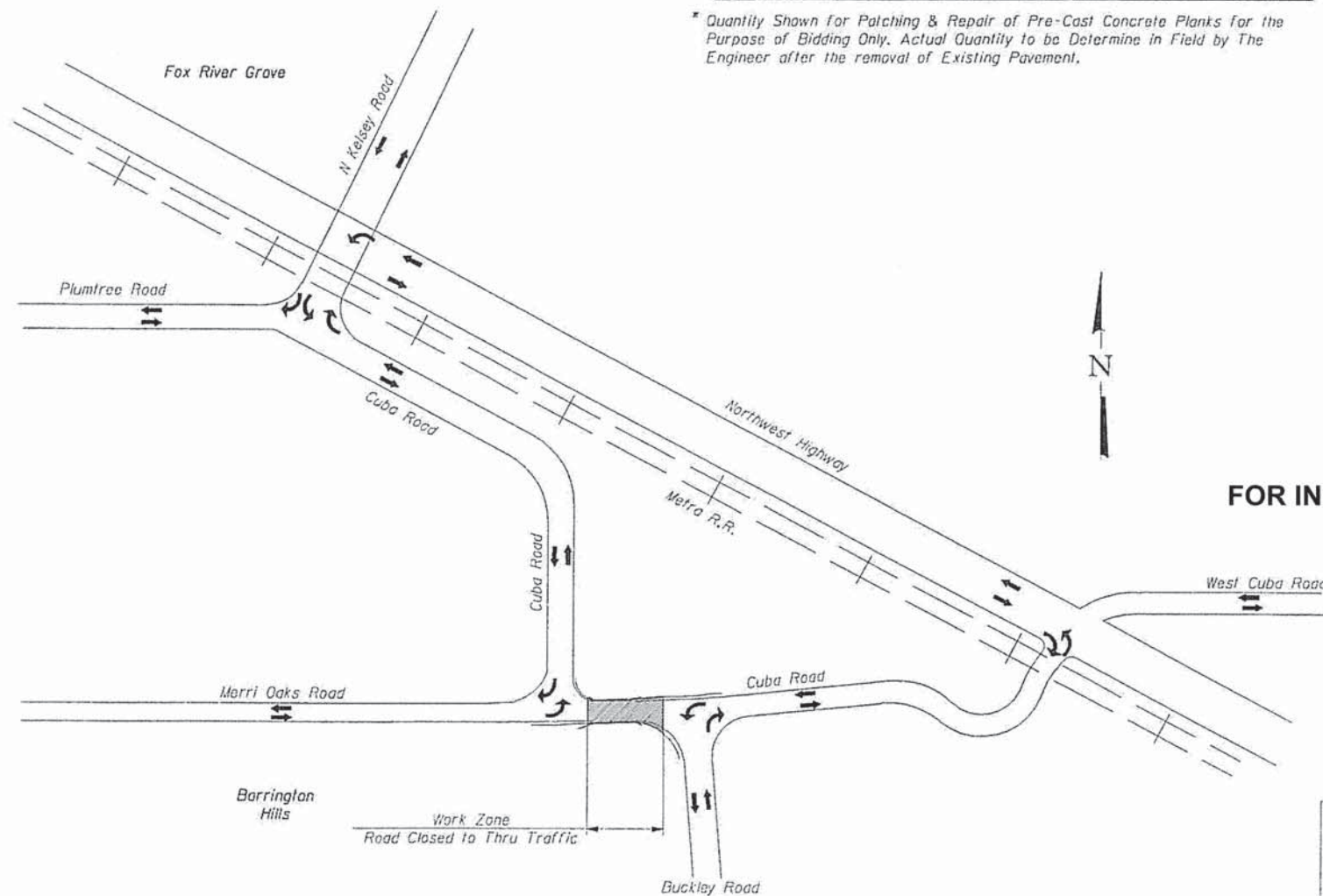
**SCOPE OF WORK:**

Remove Existing Bridge Bituminous Surface and Replace with Reinforced Concrete Overlay Raising P.G.L. as Required.  
 Remove Existing Approach Bituminous Surface, and Replace with Bituminous Concrete Surface Course.  
 No Staged Construction.  
 Bridge to be Closed during Construction. For Recommended Detour, See Details this Sheet.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	BRIDGE	ROADWAY	TOTAL
Bituminous Surface Removal (Appr.)	Sq. Yd.	-	80	80
Bituminous Surface Removal, 3"	Cu. Yd.	10.3	-	10.3
Topsoil Furnish and Place, 4"	Cu. Yd.	-	2.27	2.27
Seeding Class 2A	Sq. Yd.	-	21.8	21.8
Concrete Overlay	Cu. Yd.	15.45	-	15.45
Reinforcement Bars Epoxy Coated	Pound	1,880	-	1,880
Patching & Repair Pre-Cast Concrete Planks	Sq. Ft.	20	-	20
Bituminous Concrete Surface Course	Sq. Yd.	-	80	80
Maintenance of Traffic	L.Sum.	-	-	1
Special Detour	L.Sum.	-	-	1
Work Zone Signs	L.Sum.	-	-	1

\* Quantity Shown for Patching & Repair of Pre-Cast Concrete Planks for the Purpose of Bidding Only. Actual Quantity to be Determine in Field by The Engineer after the removal of Existing Pavement.



**FOR INFORMATION ONLY**

**RECOMMENDED DETOUR DIAGRAM DURING BRIDGE OVERLAY**

△				
△				
△				
△				
△				
△				
REV. NO.	DATE	REVISION RECORD	MADE BY	CHECKED BY

**WJE** Wiss, Janney, Elstner Associates, Inc.  
 Engineers, Architects, Material Scientists  
 330 Plingsten Road, Northbrook, IL 60062  
 (847) 272-7400, Fax (847) 291-4813  
 WJE No. 2005.1315

**VILLAGE OF BARRINGTON HILLS, ILLINOIS**

PROJECT: CUBA ROAD OVER FLINT CREEK  
 LAKE COUNTY STRUCTURE NO. 049-6049

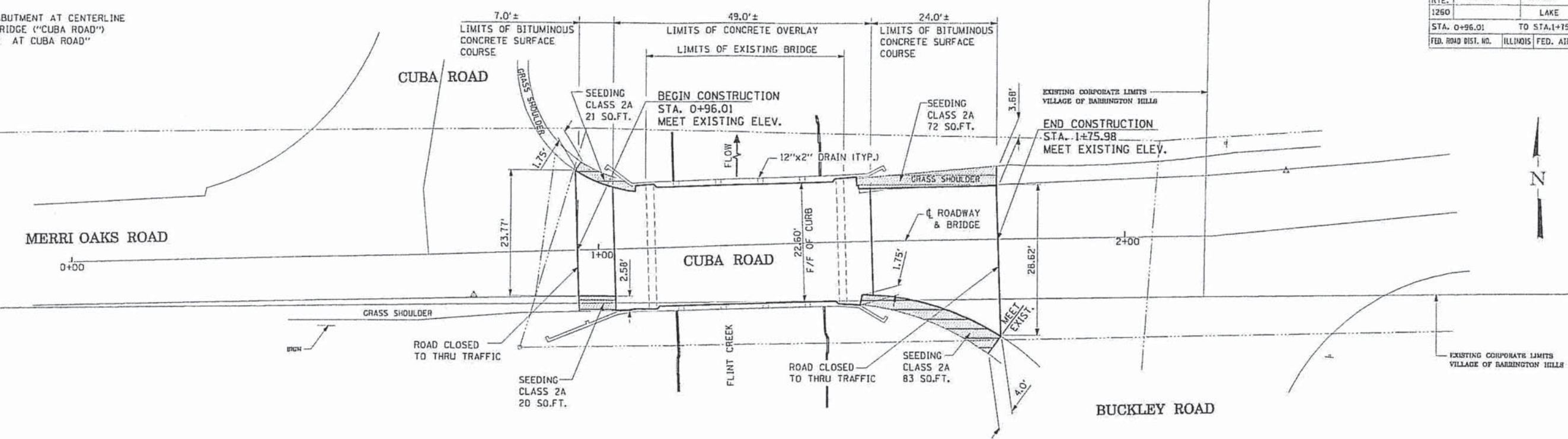
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 DATE: OCTOBER 2005 CHECKED BY: JCM

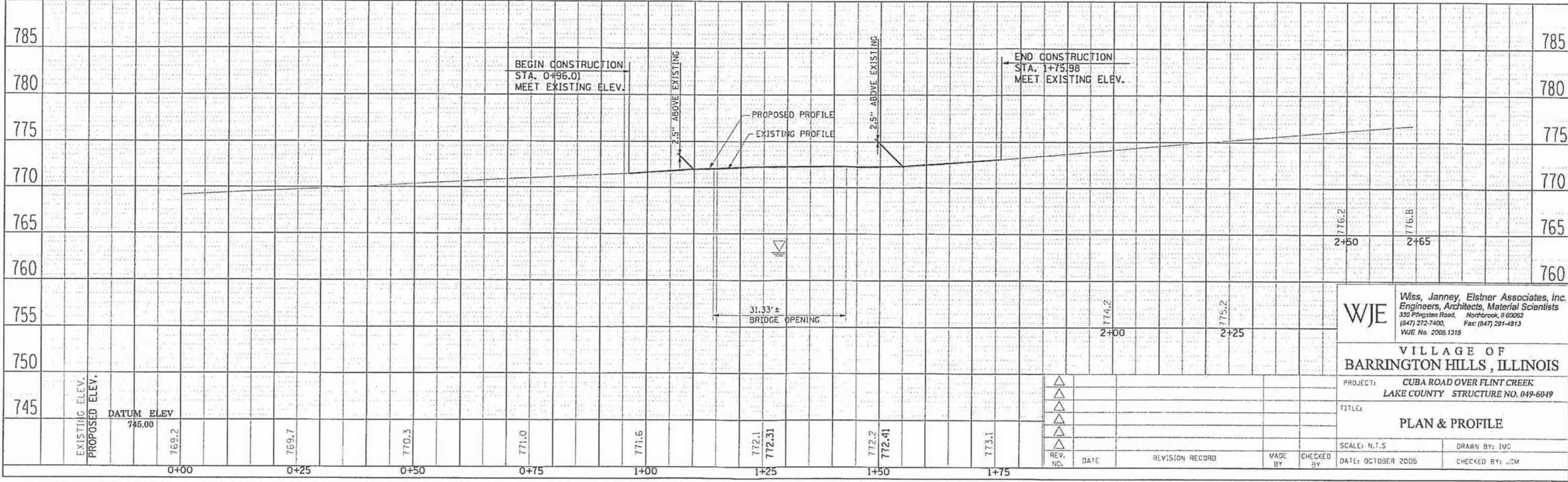
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260		LAKE	6	3
STA. 0+96.01		TO STA. 1+75.98		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**BENCH MARK:**  
 "TOP OF CONCRETE ABUTMENT AT CENTERLINE OF SOUTH SIDE OF BRIDGE ("CUBA ROAD") ON MERRI OAKS ROAD AT CUBA ROAD" ELEVATION = 774.35



FOR INFORMATION ONLY



**WJE** Wiss, Janney, Elstner Associates, Inc.  
 Engineers, Architects, Material Scientists  
 330 Pingston Road, Northbrook, IL 60062  
 (847) 272-7400, Fax: (847) 291-4813  
 WJE No. 2005.1315

VILLAGE OF BARRINGTON HILLS, ILLINOIS

PROJECT: CUBA ROAD OVER FLINT CREEK  
 LAKE COUNTY STRUCTURE NO. 049-6049

TITLE: PLAN & PROFILE

SCALE: N.T.S. DRAWN BY: JMC  
 DATE: OCTOBER 2005 CHECKED BY: JCM

REV. NO.	DATE	REVISION RECORD	MADE BY	CHECKED BY

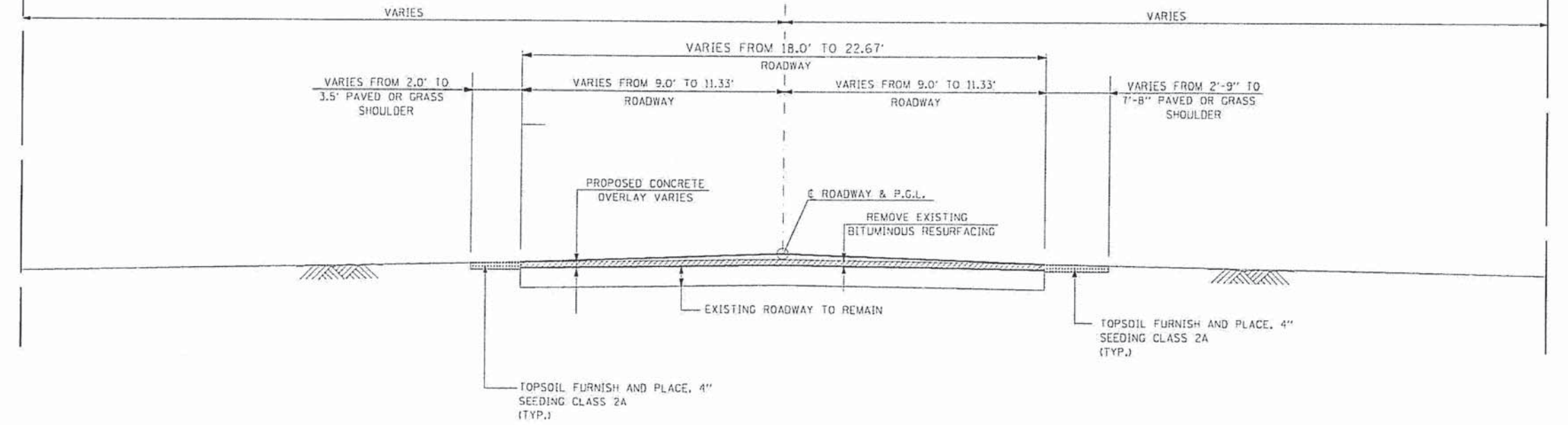
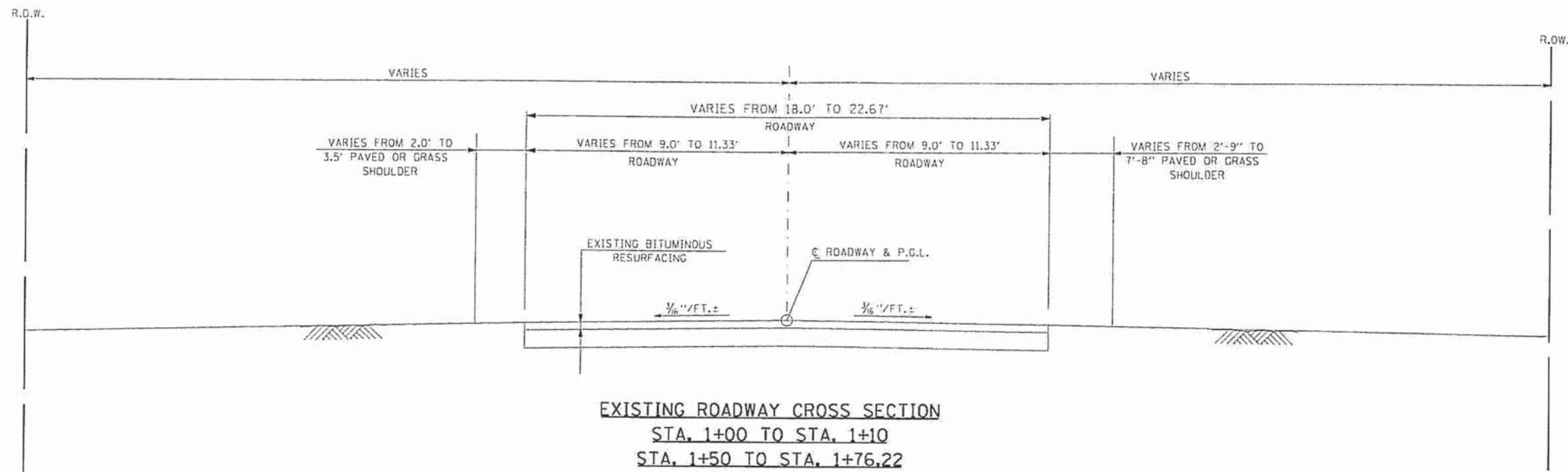
PLAN	DATE	BY

PROFILE	DATE	BY

DATE: 10/20/2006  
 FILENAME: P:\2005\1301-1400\2005.1015\Other\MICROSTATION\2005.1315-PLAN&PROF-L.jpg



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1250		LAKE	6	4
STA. 0+96.01		TO STA. 1+75.98		
ILLINOIS				



FOR INFORMATION ONLY

**WJE** *Wiss, Janney, Elstner Associates, Inc.*  
 Engineers, Architects, Material Scientists  
 330 Pfingsten Road, Northbrook, IL 60062  
 (847) 272-7400, Fax (847) 291-4813  
 WJE No. 2005.1315

VILLAGE OF  
 BARRINGTON HILLS, ILLINOIS

PROJECT: CUBA ROAD OVER FLINT CREEK  
 LAKE COUNTY STRUCTURE NO. 049-6049

TITLE: ROADWAY  
 TYPICAL CROSS SECTION

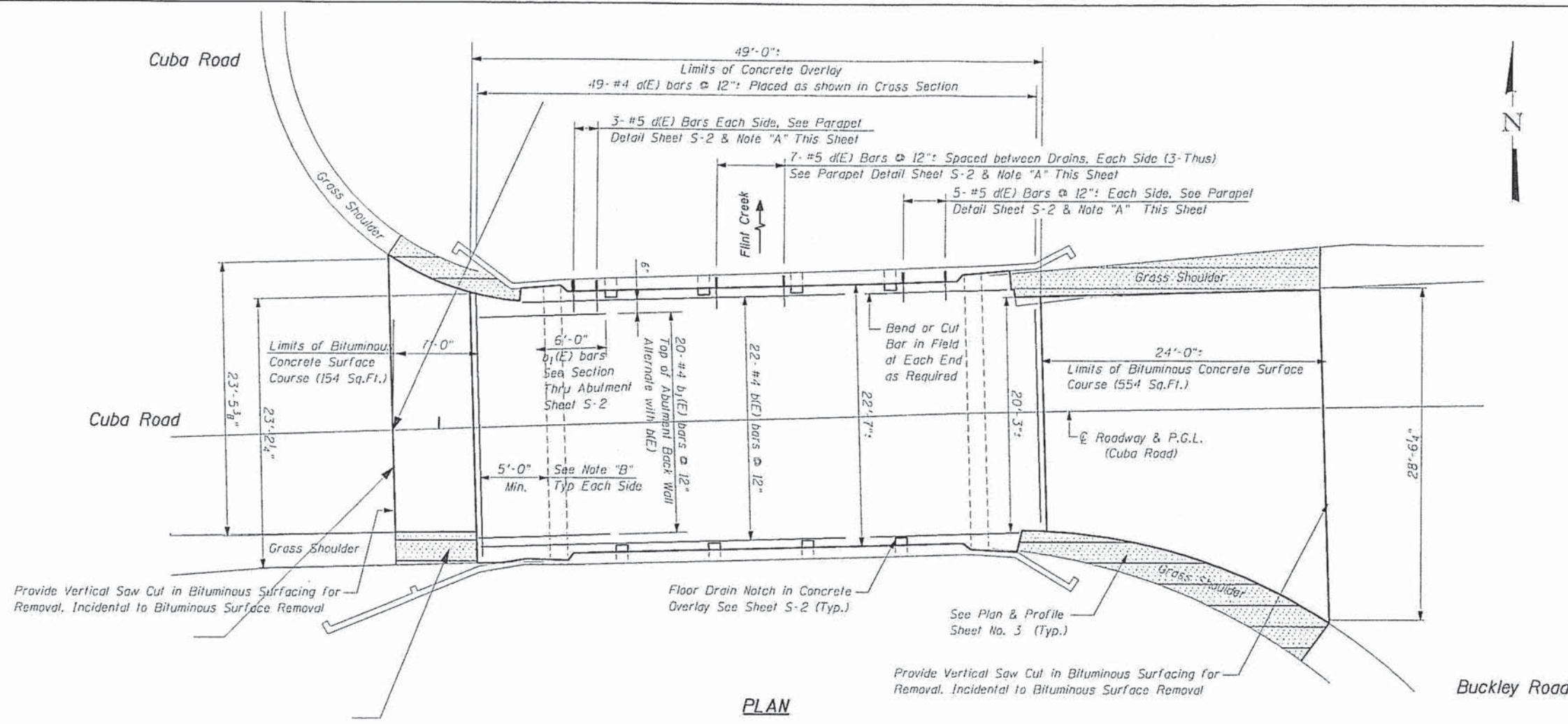
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REV. NO.	DATE	REVISION RECORD	MADE BY	CHECKED BY	

SCALE: N.T.S.	DRAWN BY: JMG
DATE: OCTOBER 2005	CHECKED BY: JCM

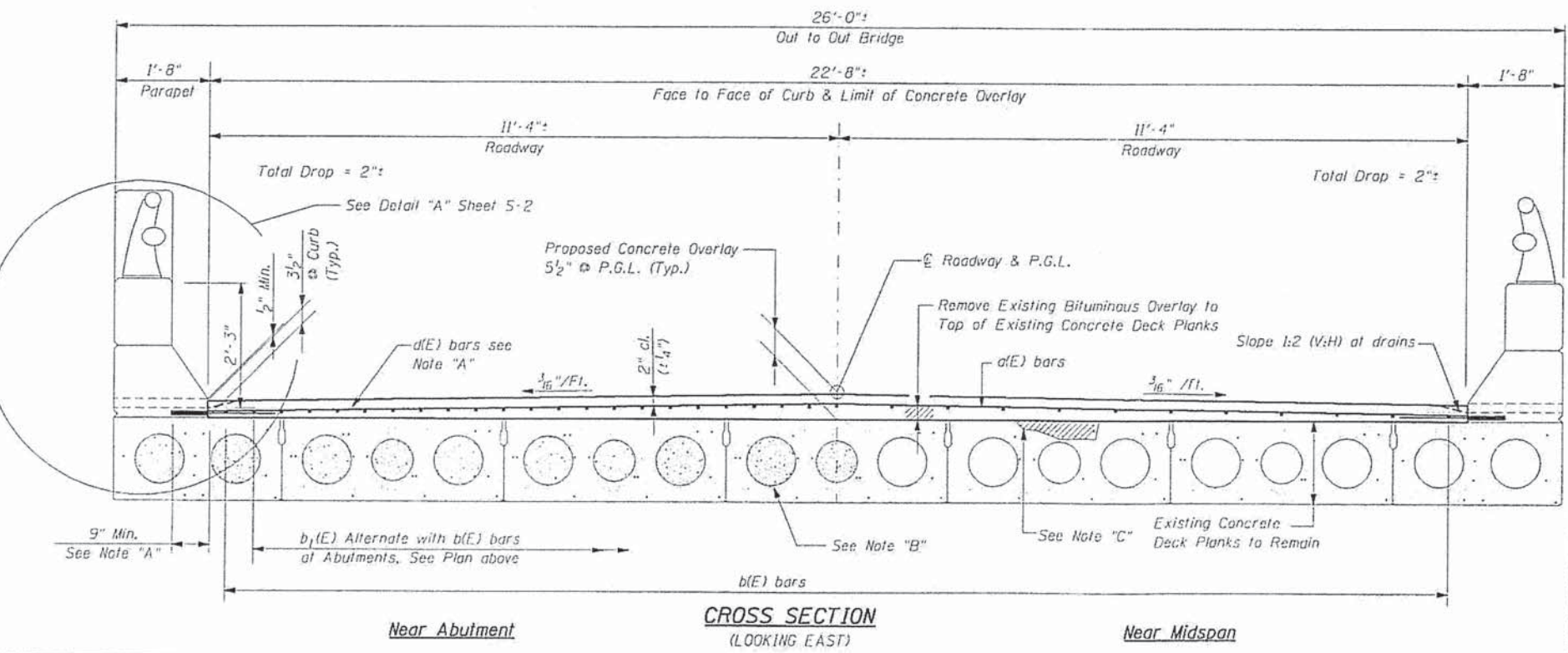
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260		LAKE	6	5
STA. 0+96.01		TO STA. 1+75.98		
ILLINOIS				

Sheet S-1 of S-2



- Note "A":**  
Epoxy grout d(E) Bars in 7/8" X 9" minimum drilled holes according to Section 584 of IDOT Standard Specifications.
- Note "B":**  
Chip holes in lap of planks at each plank core (Max 2-holes per plank core; each hole shall be less than 6" in diameter). Use holes to grout plank cores and to monitor grout placement to insure 5' length of each core at each plank end is fully grouted. Extreme care shall be taken not to fill core beyond 5'. Cost is included with Concrete Overlay.
- Note "C":**  
Contact Engineer for concrete removal and repair in the top flange of the concrete deck planks. The deck planks are prestressed and concrete removal in the top flange shall be reviewed by the Engineer prior to commencing work.
- Note "D":**  
Consult with Engineer about placement of screed rails near or atop the existing parapet prior to overlay placement.



FOR INFORMATION ONLY

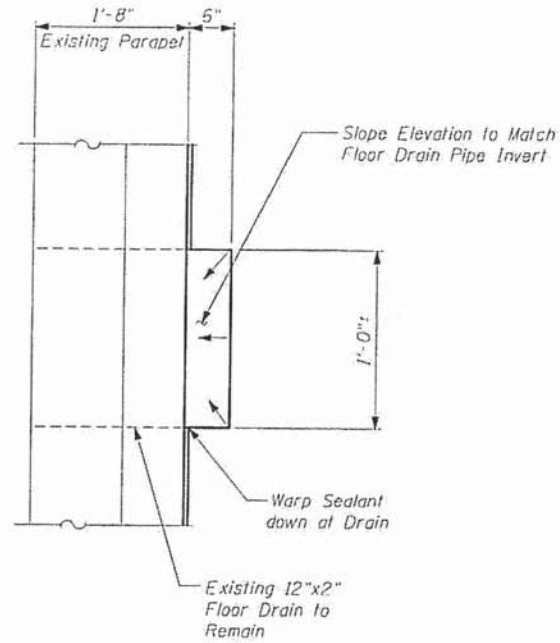
- Notes:**  
See Sheet S-2 of S-2 for superstructure details and Bill of Material.  
Reinforcement bars designated (E) shall be epoxy coated.

<b>WJE</b>	Wiss, Janney, Elstner Associates, Inc. Engineers, Architects, Material Scientists 330 Pfingsten Road, Northbrook, IL 60062 (847) 272-7400, Fax: (847) 291-4813 WJE No. 2005.1315	
	VILLAGE OF BARRINGTON HILLS, ILLINOIS	
PROJECT:	CUBA ROAD OVER FLINT CREEK LAKE COUNTY STRUCTURE NO. 049-6049	
TITLE:	SUPERSTRUCTURE PLAN & CROSS SECTION	
SCALE: N.T.S.	DRAWN BY: TMC	
REV. NO.	DATE	REVISION RECORD
		MADE BY: _____
		CHECKED BY: _____
	DATE: OCTOBER 2005	CHECKED BY: JCM

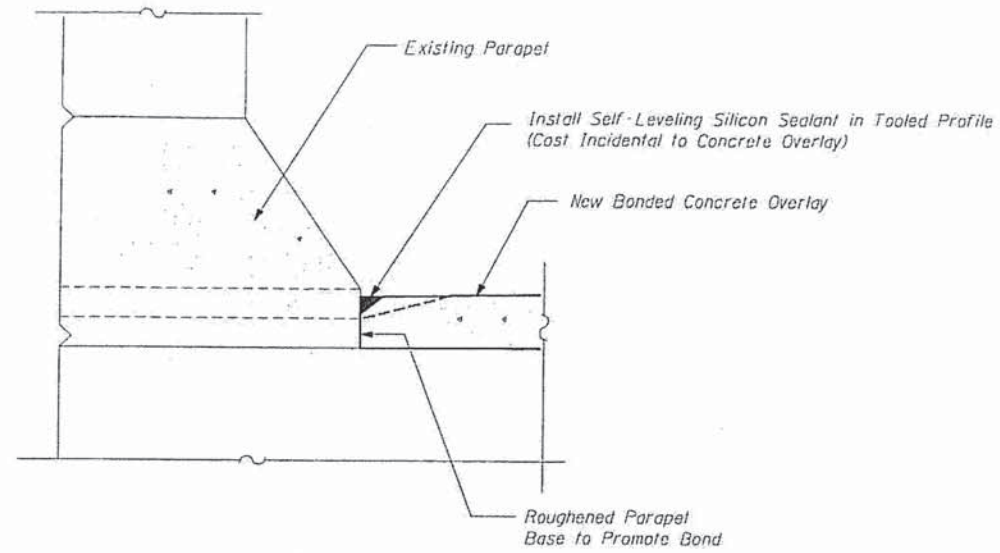
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F.A.M. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1260	LAKE	LAKE	6	6
STA. 0+96.01		TO STA. 1+75.99		
ILLINOIS				

Sheet S-2 of S-2



SECTION A-A



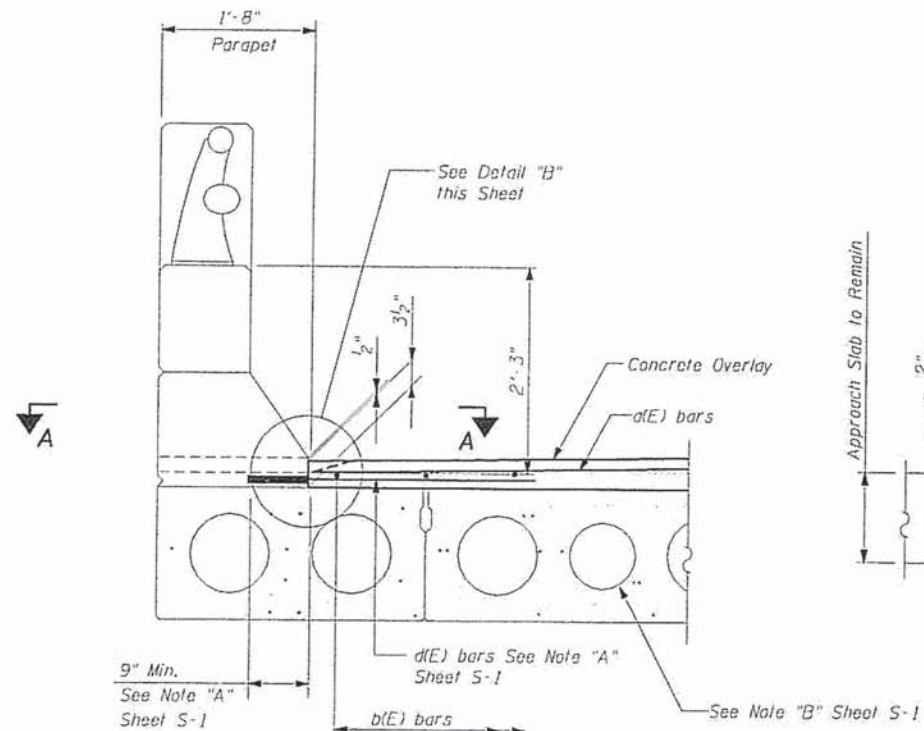
Note:  
Reinforcement bars not shown for clarity

DETAIL "B"

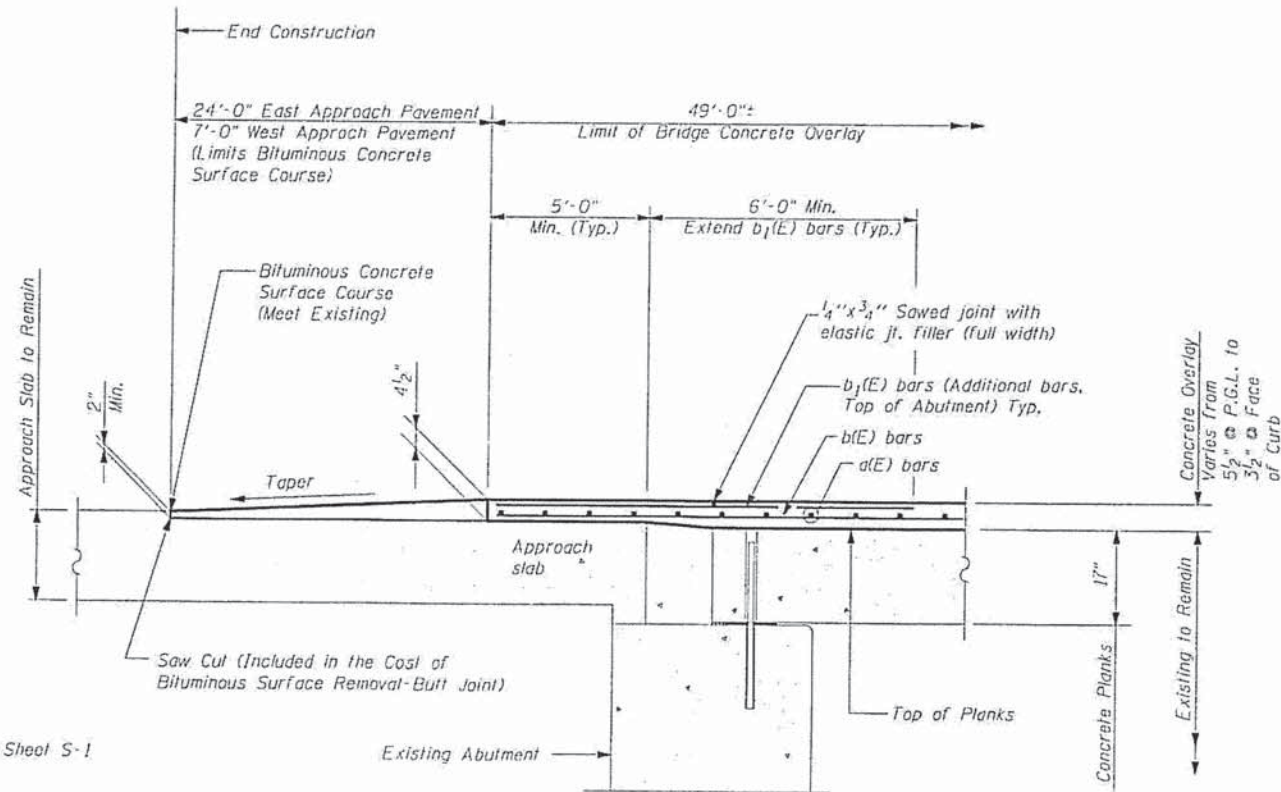
**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	49	#4	22'-4"	
b(E)	22	#4	48'-9"	
b <sub>1</sub> (E)	40	#4	11'-0"	
d(E)	58	#5	4'-0"	
Reinforcement Bars, Epoxy Coated		Pound	1,880	
Concrete Overlay		Cu. Yds.	15.45	

Reinforcement bars designated (E) shall be epoxy coated.



DETAIL "A"



SECTION THRU ABUTMENT

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(847) 272-7400, Fax (847) 291-4813  
WJE No. 2005.1315

**VILLAGE OF BARRINGTON HILLS, ILLINOIS**

PROJECT: **CUBA ROAD OVER FLINT CREEK LAKE COUNTY STRUCTURE NO. 049-6049**

TITLE: **SUPERSTRUCTURE DETAILS**

SCALE: N.T.S. DRAWN BY: JMG  
DATE: OCTOBER 2005 CHECKED BY: JCV

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REV. NO.	DATE	REVISION RECORD	MADE BY	CHECKED BY	