

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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

**COUNTRY CLUB ROAD**  
**WEDGEWOOD DRIVE TO SOUTH ELEMENTARY**  
**SHARED USE PATH**  
**SECTION 14-00122-00-BT**  
**PROJECT SRTS-4009(276)**  
**CITY OF CRYSTAL LAKE**  
**MCHENRY COUNTY**

**JOB NO.: C-91-164-14**

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	1

CONTRACT NO: 61B66



**THIS PROJECT IS LOCATED IN  
ALGONQUIN AND GRAFTON TOWNSHIPS**

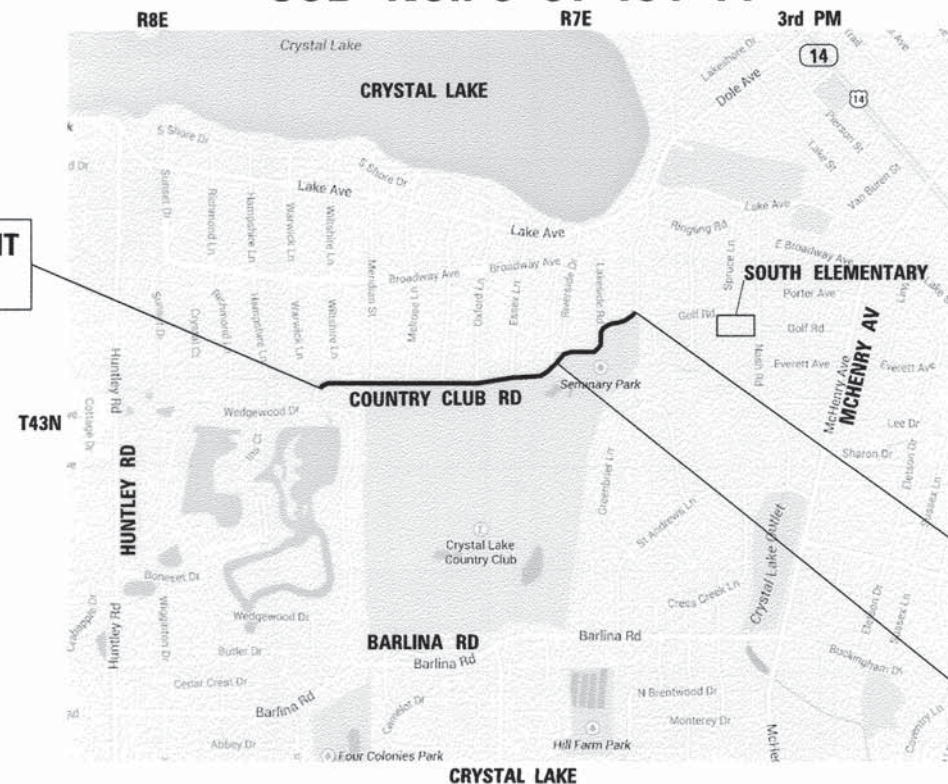
**DESIGN DESIGNATION AND TRAFFIC DATA**

**2013 ADT VEHICLES  
COUNTRY CLUB = 1,050**

**FUNCTIONAL CLASSIFICATION: LOCAL ROAD**

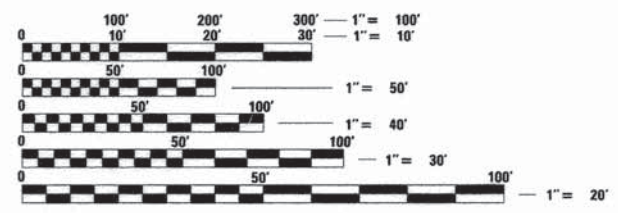
**DESIGN SPEED 25 MPH  
POSTED SPEED 25 MPH**

**BEGIN IMPROVEMENT  
STA 99 + 82.02**



**END IMPROVEMENT  
STA 135 + 43.05**

**PR STRUCTURE  
STA 125 + 35.41 -  
STA 125 + 95.41**



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.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123 OR 811

**LOCATION MAP**  
SCALE: NTS

GROSS LENGTH = 3545 FT. = 0.67 MILE  
NET LENGTH = 3545 FT. = 0.67 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED *[Signature]* December 1 2015  
CITY ENGINEER, CRYSTAL LAKE

PASSED *[Signature]* DECEMBER 17 2015  
CHRISTOPHER HOLT  
DISTRICT 1 ENGINEER LOCAL ROADS AND STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW *[Signature]* December 17 2015  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

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



## INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES AND STATE STANDARDS
3-7	SUMMARY OF QUANTITIES
8	EARTHWORK TABLE & ALIGNMENT COORDINATES
9	TYPICAL SECTIONS
10-16	PLAN & PROFILE
17	EROSION CONTROL AND GRADING PLAN
18-19	PREFABRICATED BRIDGE PLANS
20	SIGN DETAILS
21-22	SOIL BORINGS
23-25	DISTRICT 1 DETAILS
26-39	CROSS SECTIONS

## STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
602001-02	CATCH BASIN, TYPE A
604036-03	GRATE, TYPE 8
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701801-05	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS

## DISTRICT 1 DETAILS

BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

## TEMPORARY BENCHMARKS

TBM #1 IRON ROD. ELEVATION: 894.625  
33.0' SE OF SECTION CORNER, 39.6' SOUTH OF TOP NUT ON  
HYDRANT AT NE CORNER OF COUNTRY CLUB RD & MERIDIAN LN  
STA. 105+67.64, 3.22' LT

TBM #2 IRON ROD. ELEVATION: 900.105  
76.5' NW OF NW FACE OF PP AT STA. 112+17.32, 10.80' RT.  
69.6' SW OF TOP NUT ON HYDRANT AT NW CORNER OF COUNTRY  
CLUB RD & CUMBERLAND LN STA. 111+56.83, 35.71' LT

TBM #5 IRON ROD. ELEVATION: 896.170  
50.0' EAST OF 12" TREE, 11.6' SOUTH OF INTERSECTION OF  
SIDEWALK AND EOP STA. 129+60.26, 0.36' RT

## GENERAL NOTES

- SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
- ALL DAMAGE TO TOWNSHIP, CITY, COUNTY OR STATE OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRICAL CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.
- EXCEPT WHERE MODIFIED BY THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS OR THE DETAILS IN THE PLANS, ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2015; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JULY 2009 SIXTH EDITION; THE "DETAILS" IN THE PLANS; AND THE "SPECIAL PROVISIONS" IN THE CONTRACT DOCUMENTS.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST IDOT STANDARDS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE. THE STRUCTURE GEOTECHNICAL REPORT IS INCLUDED IN THE PROJECT SPECIFICATIONS FOR REVIEW AND INFORMATION.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, MCHENRY COUNTY, ALGONQUIN TOWNSHIP, GRAFTON TOWNSHIP AND THE CITY OF CRYSTAL LAKE.
- A STAGING AREA IS AVAILABLE FOR THE CONTRACTOR AT THE CITY'S WATER TREATMENT PLANT #2, WHICH IS LOCATED AT THE SOUTH END OF HIGHLAND DRIVE. THE AREA IS OUTSIDE THE FENCED AREA AND THE CONTRACTOR MUST MAKE SURE TO NOT BLOCK THE DRIVEWAY ENTRANCE AT ANY TIME. ANY AREAS WHICH ARE DISTURBED MUST BE RESTORED TO THEIR ORIGINAL CONDITION. RESTORATION OF THIS AREA IS CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 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.
- THE CONTRACTOR SHALL PLACE TREE TRUNK PROTECTION AROUND TREES WITHIN THE RIGHT OF WAY. ADDITIONALLY, TREE ROOT PRUNING SHALL BE CONDUCTED AT THE DIRECTION OF THE ENGINEER.
- DRAINAGE STRUCTURE STATIONS AND OFFSETS ARE SHOWN TO THE CENTER OF THE FRAME. DRAINAGE STRUCTURE RIM ELEVATIONS ARE SHOWN TO THE TOP OF THE FRAME.
- THE CONTRACTOR SHALL PLACE AND MAINTAIN PERIMETER EROSION BARRIER AROUND THE EXISTING AND PROPOSED OPEN GRATES AT THE DIRECTION OF THE ENGINEER.
- THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE ITS ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF SUCH FACILITIES SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS. THEIR FACILITIES MAY BE REQUIRED TO BE ADJUSTED OR RELOCATED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY, AND SHALL RESTORE SUCH PROPERTY AT HIS OWN EXPENSE.
- THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER MATERIAL EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS AT HIS EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE ON THE DAY IT IS EXCAVATED. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING MATERIAL TO LOCATIONS, PROVIDED BY THE CONTRACTOR, OUTSIDE THE LIMITS OF THE IMPROVEMENT.
- DURING CONSTRUCTION OPERATIONS, WHENEVER ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED BY THE CONTRACTOR AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF DRAINAGE STRUCTURES TO BE CLEANED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE AS NOTED ON THE PLANS OR INCLUDED IN PROPOSED STORM SEWER.
- WORKING HOURS SHALL BE LIMITED BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM ON WEEKDAYS ONLY UNLESS APPROVED BY THE CITY ENGINEER.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN FENCING, BARRICADES, TRAFFIC CONTROL SIGNS, AND OTHER SAFEGUARDING MEASURES DURING THE COURSE OF ALL WORK TO PROTECT THE PUBLIC FROM THE CONSTRUCTION OPERATIONS.
- MAINTAIN ACCESS TO ADJACENT STREETS DURING CONSTRUCTION. NO CLOSING OF STREETS UNLESS APPROVAL FIRST OBTAINED FROM THE AGENCY WITH JURISDICTION (CITY ENGINEERING DIVISION).
- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY CONTAMINATED SOILS ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT.
- VARIOUS TREES ARE INCLUDED IN THIS CONTRACT. LOCATION OF TREES TO BE DETERMINED BY ABIGAIL WILGREEN, CITY ENGINEER OF CRYSTAL LAKE.

DATE	
BY	
SURVEYED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
JOB FILE NAME	
PLAN	
NOTE BOOK	
NO.	

FILE NAME =	DESIGNED - RJP	REVISED -
10421_sht_gen_notes.dgn	DRAWN - RJP	REVISED -
USER NAME = RJP	CHECKED - MPM	REVISED -
PLOT DATE = 12/3/2015	DATE = 12/03/2015	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES AND STATE STANDARDS

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

	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	2
				CONTRACT NO. 61B66
				ILLINOIS FED. AID PROJECT



DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 ALIGNED \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 PLAN NOTE BOOK NO. \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 FILE NAME \_\_\_\_\_

SUMMARY OF QUANTITIES		URBAN	SRTS 100% FEDERAL FUNDING					LOCAL 100% LOCAL FUNDING	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0008	0020	0021	0028	0031	0043
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	14					14	
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	17					17	
20101100	TREE TRUNK PROTECTION	EACH	16					16	
* 20101200	TREE ROOT PRUNING	EACH	40					40	
* 20101700	SUPPLEMENTAL WATERING	UNIT	2.7					2.7	
20200100	EARTH EXCAVATION	CU YD	345				345		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,705				1,705		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1,609				1,609		
20800150	TRENCH BACKFILL	CU YD	33				33		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	4,034				4,034		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,000				1,000		
* 25000100	SEEDING, CLASS 1	ACRE	1.25					1.25	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	113					113	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	113					113	

\* SPECIALTY ITEM

FILE NAME =	DESIGNED - RJP	REVISED SOQ ADJ. 01/25/16
10421_sht_S00_01.dgn	DRAWN - RJP	REVISED -
USER NAME = RJP	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2016	DATE - 12/03/2015	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	3
		CONTRACT NO. 61B66	
ILLINOIS FED. AID PROJECT			



PLAN	DESIGNED	CHECKED	DATE
	BY	BY	
	NO.	NO.	
	FILE NAME	FILE NAME	

SUMMARY OF QUANTITIES		URBAN	SRTS 100% FEDERAL FUNDING					LOCAL 100% LOCAL FUNDING	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0008	0020	0021	0028	0031	0043
* 25100630	EROSION CONTROL BLANKET	SO YD	5,265		5,265				
28000305	TEMPORARY DITCH CHECKS	FOOT	115		115				
28000400	PERIMETER EROSION BARRIER	FOOT	3,908		3,908				
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SO YD	3,290				3,290		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	7,000				7,000		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	392				392		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	199				199		
42400800	DETECTABLE WARNINGS	SO FT	50			50			
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	262				262		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	78				78		
44000600	SIDEWALK REMOVAL	SO FT	3,810				3,810		
48101202	AGGREGATE SHOULDERS, TYPE B	CU YD	52				52		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	1,620				1,620		
50200100	STRUCTURE EXCAVATION	CU YD	137				137		

\* SPECIALTY ITEM

FILE NAME =	DESIGNED - RJP	REVISED SOQ ADJ. 01/25/16
18421_sht_S00_02.dgn	DRAWN - RJP	REVISED -
USER NAME = RJP	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2016	DATE - 12/03/2015	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	4
		CONTRACT NO. 61866	
[ILLINOIS] FED. AID PROJECT			



PLAN  
 NO. \_\_\_\_\_  
 CHECKED  
 BY \_\_\_\_\_  
 DATE \_\_\_\_\_  
 REVISIONS  
 NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DESCRIPTION \_\_\_\_\_  
 FILE NAME \_\_\_\_\_

SUMMARY OF QUANTITIES		UNIT	URBAN TOTAL QUANTITY	SRTS 100% FEDERAL FUNDING					LOCAL 100% LOCAL FUNDING 0043
CODE NO.	ITEM			0008	0020	0021	0028	0031	
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1				1		
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1				1		
50300225	CONCRETE STRUCTURES	CU YD	28.7				28.7		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,970				2,970		
550A0340	STORM SEWERS, CLASS A TYPE 2 12"	FOOT	54				54		
58700300	CONCRETE SEALER	SQ FT	392	392					
59100100	GEOCOMPOSITE WALL DRAIN	SD YD	18	18					
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	6				6		
60255500	MANHOLES TO BE ADJUSTED	EACH	7				7		
60603800	COMBINATION CURB AND GUTTER, TYPE B-6.12	FOOT	78				78		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3				3		
67100100	MOBILIZATION	LSUM	1				1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1				1		
72000100	SIGN PANEL - TYPE 1	SQ FT	12.8			12.8			

• SPECIALTY ITEM

FILE NAME =	DESIGNED - RJP	REVISED <i>S00 ADJ. 01/25/16</i>
10421.sht_S00_03.dgn	DRAWN - RJP	REVISED -
USER NAME = RJP	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2016	DATE - 12/03/2015	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	5
CONTRACT NO. 61866		ILLINOIS FED. AID PROJECT	



DATE  
BY  
SERVICES PROVIDED  
PLANNING  
DESIGN  
CONSTRUCTION  
OPERATION  
MAINTENANCE  
NO. FILE NAME

SUMMARY OF QUANTITIES			URBAN	SRTS 100% FEDERAL FUNDING					LOCAL 100% LOCAL FUNDING
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0008	0020	0021	0028	0031	0043
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	5			5			
72900100	METAL POST - TYPE A	FOOT	57			57			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	126			126			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	160			160			
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	12			12			
* 81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	3,535						3,535
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,600						3,600
* A2000116	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	5					5	
* A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	3					3	
* A2008920	TREE, ULMUS REGAL (REGAL ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3					3	
X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	840	840					
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	6				6		
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1				1		
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	11	11					

\* SPECIALTY ITEM

FILE NAME *	DESIGNED - RJP	REVISED SOQ ADJ. 01/25/16
*FILE#	DRAWN - RJP	REVISED -
USER NAME = *USER*	CHECKED - MPM	REVISED -
PLOT DATE = *DATE*	DATE - 12/03/2015	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	6
CONTRACT NO. 61B66		ILLINOIS FED. AID PROJECT	





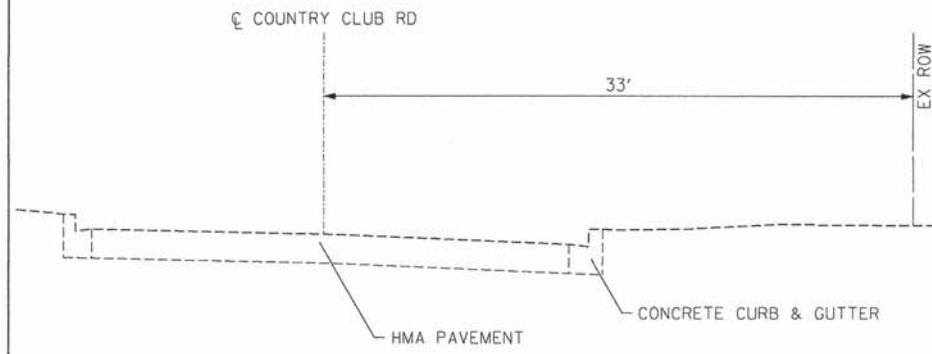


**COUNTRY CLUB ROAD EARTH WORK**

STATION	END AREA (SQ. FT.)					LENGTH (FT.) (STA. - STA.)	AVERAGE END AREA (SQ. YD.)					CUMULATIVE (CU. YD.)					BORROW EXCAVATION (CU. YD.)	CUMULATIVE FURNISHED EXCAVATION (CU. YD.)			
	SUITABLE MATERIAL EXCAVATION	EMBANKMENT	TOPSOIL STRIPPING	TOPSOIL PLACEMENT	REMOVAL OF UNSUITABLE MATERIAL		SUITABLE MATERIAL EXCAVATION	SUITABLE MATERIAL EXCAVATION (INCLUDING SHRINKAGE FAC.)	EMBANKMENT	TOPSOIL STRIPPING	TOPSOIL PLACEMENT	REMOVAL OF UNSUITABLE MATERIAL	SUITABLE MATERIAL EXCAVATION	(SUITABLE MATERIAL EXCAVATION INCL. SHRINKAGE FACTOR)	EMBANKMENT	TOPSOIL STRIPPING			TOPSOIL PLACEMENT	REMOVAL OF UNSUITABLE MATERIAL	
100+00.00	3.8	0	5.1	0	0																
100+04.84	8.8	0	9.6	0	0	4.84	0.70	0.53	0.00	0.82	0.00	0.00	1.13	0.85	0.00	1.32	0.00	0.00	-0.85	-0.85	
100+50.00	4.3	0	6	0	0	45.16	0.73	0.55	0.00	0.87	0.00	0.00	12.08	9.06	0.00	14.36	0.00	0.00	-8.22	-9.06	
101+00.00	3.6	0.1	6.3	0.3	0	50.00	0.44	0.33	0.01	0.68	0.02	0.00	19.40	14.55	0.09	25.75	0.28	0.00	-5.39	-14.46	
101+50.00	0.5	3	7.1	1	0	50.00	0.23	0.17	0.17	0.74	0.07	0.00	23.20	17.40	2.96	38.16	1.48	0.00	0.02	-14.43	
102+00.00	2.4	0.1	7.3	1.3	0	50.00	0.16	0.12	0.17	0.80	0.13	0.00	25.88	19.41	5.83	51.49	3.61	0.00	0.86	-13.58	
102+50.00	4.3	0	6.4	0.4	0	50.00	0.37	0.28	0.01	0.76	0.09	0.00	32.08	24.06	5.93	64.18	5.19	0.00	-4.56	-18.14	
103+00.00	3.8	0	6	0	0	50.00	0.45	0.34	0.00	0.69	0.02	0.00	39.58	29.69	5.93	75.66	5.56	0.00	-5.63	-23.76	
103+50.00	3.9	0	6.2	0.2	0	50.00	0.43	0.32	0.00	0.68	0.01	0.00	46.71	35.04	5.93	86.96	5.74	0.00	-5.35	-29.11	
103+64.99	0	0	0	0	0	14.99	0.22	0.16	0.00	0.34	0.01	0.00	47.80	35.85	5.93	88.68	5.80	0.00	-0.81	-29.92	
104+00.00	0.2	0.8	7.2	1.2	6.4	35.01	0.01	0.01	0.04	0.40	0.07	0.36	47.93	35.95	6.44	93.35	6.57	4.15	0.42	-29.50	
104+50.00	0.1	2.4	6.5	0.6	5.9	50.00	0.02	0.01	0.18	0.76	0.10	0.68	48.20	36.15	9.41	106.03	8.24	15.54	2.75	-26.75	
105+00.00	0.1	3.1	8.2	0.4	8.1	50.00	0.01	0.01	0.31	0.82	0.06	0.78	48.39	36.29	14.50	119.64	9.17	28.50	4.95	-21.79	
105+50.00	0	5.6	8.6	2	7.8	50.00	0.01	0.00	0.48	0.93	0.13	0.88	48.48	36.36	22.56	135.20	11.39	43.22	7.99	-13.81	
106+00.00	0	5.7	8.8	2.1	7.9	50.00	0.00	0.00	0.63	0.97	0.23	0.87	48.48	36.36	33.02	151.31	15.19	57.76	10.46	-3.34	
106+50.00	4.4	7.2	10.1	4.5	7.6	50.00	0.24	0.18	0.72	1.05	0.37	0.86	52.56	39.42	44.96	168.81	21.30	72.11	8.89	5.55	
107+00.00	2.4	23.6	11.5	5.3	8.5	50.00	0.38	0.28	1.71	1.20	0.54	0.89	58.85	44.14	73.48	188.81	30.37	87.02	23.80	29.34	
107+50.00	2.8	14.5	11.1	5	8.7	50.00	0.29	0.22	2.12	1.26	0.57	0.96	63.67	47.75	108.76	209.73	39.91	102.95	31.67	61.01	
108+00.00	1.7	15.9	10	3.7	8.3	50.00	0.25	0.19	1.69	1.17	0.48	0.94	67.83	50.88	136.91	229.27	47.96	118.69	25.02	86.03	
108+50.00	2.1	13	10.1	3.9	8.5	50.00	0.21	0.16	1.61	1.12	0.42	0.93	71.35	53.51	163.67	247.88	55.00	134.24	24.12	110.15	
108+97.44	2.9	9	10.2	4.2	8.7	47.44	0.28	0.21	1.22	1.13	0.45	0.96	75.75	56.81	182.99	265.72	62.12	149.35	16.03	126.19	
109+00.00	2.8	9	10.4	4.2	8.6	2.56	0.32	0.24	1.00	1.14	0.47	0.96	76.02	57.01	183.85	266.69	62.51	150.17	0.65	126.84	
109+50.00	3.2	8.7	10.8	4.4	8.6	50.00	0.33	0.25	0.98	1.18	0.48	0.96	81.57	61.18	200.24	286.32	70.48	166.10	12.22	139.06	
110+00.00	1.3	16.2	10	3.5	8.7	50.00	0.25	0.19	1.38	1.16	0.44	0.96	85.74	64.30	223.29	305.58	77.79	182.12	19.93	158.99	
110+50.00	1.5	14.2	9.2	3.1	8	50.00	0.16	0.12	1.69	1.07	0.37	0.93	88.33	66.25	251.44	323.36	83.90	197.58	26.20	185.19	
111+00.00	1.2	11.6	6.7	0.3	7.2	50.00	0.15	0.11	1.43	0.88	0.19	0.84	90.83	68.12	275.33	338.08	87.05	211.65	22.01	207.21	
111+50.00	1.1	10.6	7.5	0.6	7.5	50.00	0.13	0.10	1.23	0.79	0.05	0.82	92.96	69.72	295.88	351.23	87.88	225.27	18.96	226.16	
112+00.00	1	11.5	8.4	1.5	7.4	50.00	0.12	0.09	1.23	0.88	0.12	0.83	94.90	71.18	316.35	365.95	89.83	239.06	19.00	245.17	
112+50.00	5	11.2	11.2	4.3	7.6	50.00	0.33	0.25	1.26	1.09	0.32	0.83	100.46	75.34	337.37	384.10	95.20	252.95	16.85	262.02	
112+63.01	3.3	13.4	10.7	3.8	7	13.01	0.46	0.35	1.37	1.22	0.45	0.81	102.46	76.84	343.29	389.38	97.15	256.47	4.43	266.45	
113+00.00	1	10.8	7.9	1.1	7.3	36.99	0.24	0.18	1.34	1.03	0.27	0.79	105.41	79.05	359.87	402.12	100.51	266.26	14.37	280.82	
113+50.00	1.8	6.3	8.1	1.6	7.3	50.00	0.16	0.12	0.95	0.89	0.15	0.81	108.00	81.00	375.70	416.93	103.01	279.78	13.89	294.70	
114+00.00	4	6.4	9.5	3.3	7	50.00	0.32	0.24	0.71	0.98	0.27	0.79	113.37	85.03	387.46	433.23	107.54	293.02	7.73	302.44	
114+29.87	4	5.6	3.5	0	7.2	29.87	0.44	0.33	0.67	0.72	0.18	0.79	117.79	88.34	394.10	440.42	109.37	300.88	3.32	305.76	
114+50.00	2.2	8.1	7.8	2.1	6.8	20.13	0.34	0.26	0.76	0.63	0.12	0.78	120.10	90.08	399.21	444.63	110.15	306.10	3.37	309.13	
115+00.00	1.1	39	8.3	1.9	35.9	50.00	0.18	0.14	2.62	0.89	0.22	2.37	123.16	92.37	442.82	459.54	113.86	345.63	41.32	350.45	
115+50.00	3	38.7	9	3.1	35.5	50.00	0.23	0.17	4.32	0.96	0.28	3.97	126.96	95.22	514.76	475.56	118.49	411.74	69.10	419.55	
116+00.00	3.8	39	10.7	4.1	33.2	50.00	0.38	0.28	4.32	1.09	0.40	3.82	133.25	99.94	586.71	493.80	125.15	475.36	67.22	486.77	
116+50.00	1.1	38	8.8	2.1	36.1	50.00	0.27	0.20	4.28	1.08	0.34	3.85	137.79	103.34	658.00	511.85	130.89	539.52	67.89	554.66	
117+00.00	5.5	33.5	10.3	3.8	36.9	50.00	0.37	0.28	3.97	1.06	0.33	4.06	143.90	107.93	724.21	529.54	136.36	607.11	61.62	616.28	
117+50.00	1.9	34.3	8.5	2.3	36.6	50.00	0.41	0.31	3.77	1.04	0.34	4.08	150.75	113.06	786.99	546.95	142.00	675.17	57.64	673.92	
118+00.00	1.2	35.7	7.6	1.5	38.9	50.00	0.17	0.13	3.89	0.89	0.21	4.12	153.62	115.22	851.80	561.85	145.52	743.78	62.66	736.58	
118+50.00	3.3	37.5	8.8	2.6	38.2	50.00	0.25	0.19	4.07	0.91	0.23	4.21	157.79	118.34	919.58	577.04	149.32	813.87	64.65	801.24	
119+00.00	8.4	33.2	10.8	3.9	43	50.00	0.65	0.49	3.93	1.09	0.36	4.51	168.62	126.47	985.04	595.19	155.34	889.06	57.34	858.57	
119+50.00	1.9	39.9	9.2	2.4	40.7	50.00	0.57	0.43	4.06	1.11	0.35	4.65	178.16	133.62	1052.73	613.71	161.17	966.56	60.53	919.11	
120+00.00	1.3	41.2	8.1	1.4	41.2	50.00	0.18	0.13	4.51	0.96	0.21	4.55	181.12	135.84	1127.82	629.72	164.69	1042.39	72.87	991.98	
120+50.00	0.9	41.4	7.3	0.6	39.4	50.00	0.12	0.09	4.59	0.86	0.11	4.48	183.16	137.37	1204.30	643.98	166.54	1117.02	74.95	1066.93	
121+00.00	0.9	39.9	7.6	1.1	37.9	50.00	0.10	0.08	4.52	0.83	0.09	4.29	184.83	138.62	1279.58	657.78	168.12	1188.60	74.03	1140.96	
121+50.00	1	44.2	8.2	1.6	36.8	50.00	0.11	0.08	4.67	0.88	0.15	4.15	186.59	139.94	1357.45	672.41	170.62	1257.76	76.55	1217.51	
122+00.00	1.1	41.7	7.7	1.4	37	50.00	0.12	0.09	4.77	0.88	0.17	4.10	188.53	141.40	1436.99	687.13	173.39	1326.10	78.08	1295.59	
122+50.00	0.8	42.3	8.6	1.7	38.1	50.00	0.11	0.08	4.67	0.91	0.17	4.17	190.29	142.72	1514.76	702.22	176.26	1395.63	76.46	1372.05	
123+00.00	0	30.2	7.5	1.3	30.2	50.00	0.04	0.03	4.03	0.89	0.17	3.79	191.03	143.27	1581.89	717.13	179.04	1458.87	66.57	1438.62	
123+50.00	0	27.2	6.5	0.6	33	50.00	0.00	0.00	3.19	0.78	0.11	3.51	191.03	143.27	1635.04	730.10	180.80	1517.39	53.15	1491.77	
124+00.00	0	28.2	6.6	0.6	32	50.00	0.00	0.00	3.08	0.73	0.07	3.61	191.03	143.27	1686.34	742.22	181.91	1577.58	51.30	1543.06	
124+38.36	0	0	0	0	0	38.36	0.00	0.00	1.57	0.37	0.03	1.78	191.03	143.27	1706.37	746.91	182.34	1600.31	20.03	1563.10	
124+50.00	0	27.7	7.3	1.2	32.1	11.64	0.00	0.00	1.54	0.41	0.07	1.78	191.03	143.27	1712.34	748.49	182.60	1607.23	5.97	1569.07	
125+00.00	0.1	28.6	7.2	0.8	35.3	50.00	0.01	0.00	3.13	0.81	0.11	3.74	191.12	143.34	1764.47	761.91	184.45	1669.64	52.06	1621.13	
125+50.00																					
125+64.29																					
126+00.00	0	47.5	13.7	7.7	12.8	35.71	0.00	0.0													

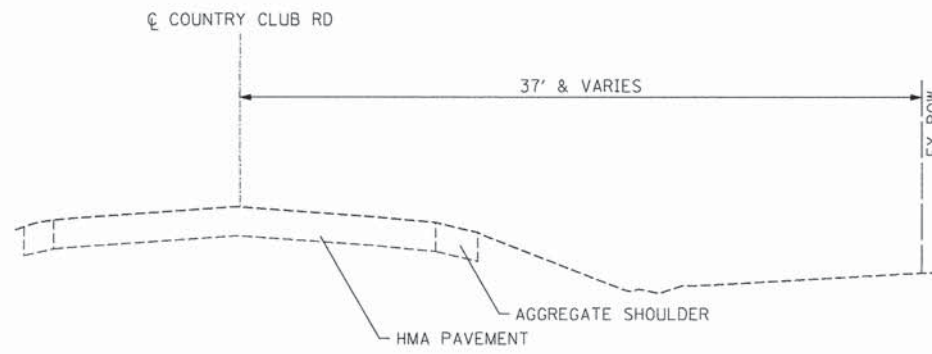


DATE	
BY	
SURVEYED	
ALIGNED	
CHECKED	
BY	
NOTE BOOK	
NO.	
PROJ. FILE NAME	



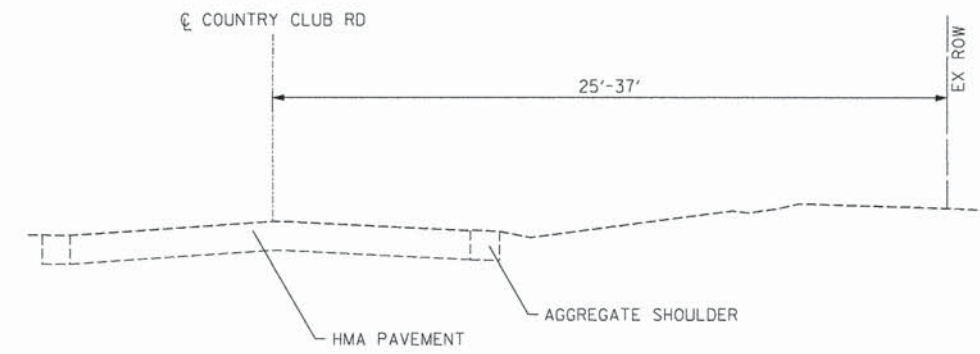
**EXISTING TYPICAL SECTION**

(LOOKING EAST)  
STA. 99+81 TO STA. 104+53



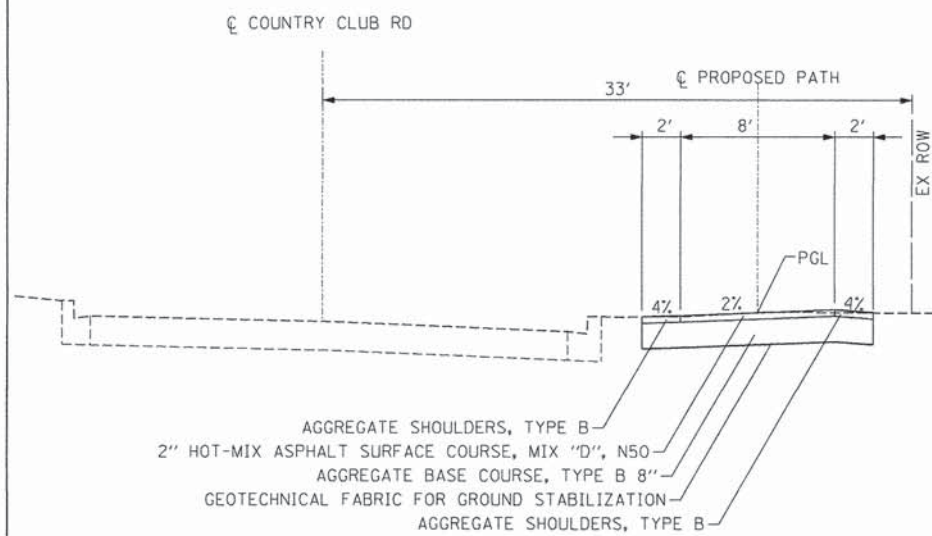
**EXISTING TYPICAL SECTION**

(LOOKING EAST)  
STA. 104+53 TO STA. 110+83



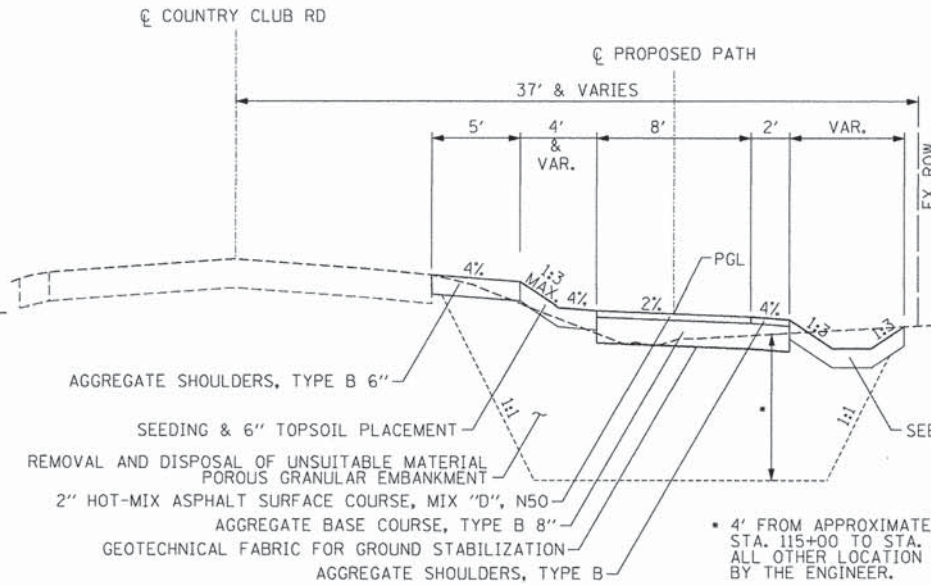
**EXISTING TYPICAL SECTION**

(LOOKING EAST)  
STA. 110+83 TO STA. 135+50  
PROPOSED BRIDGE & APPROACH OMISSION STA. 125+00 TO 126+00



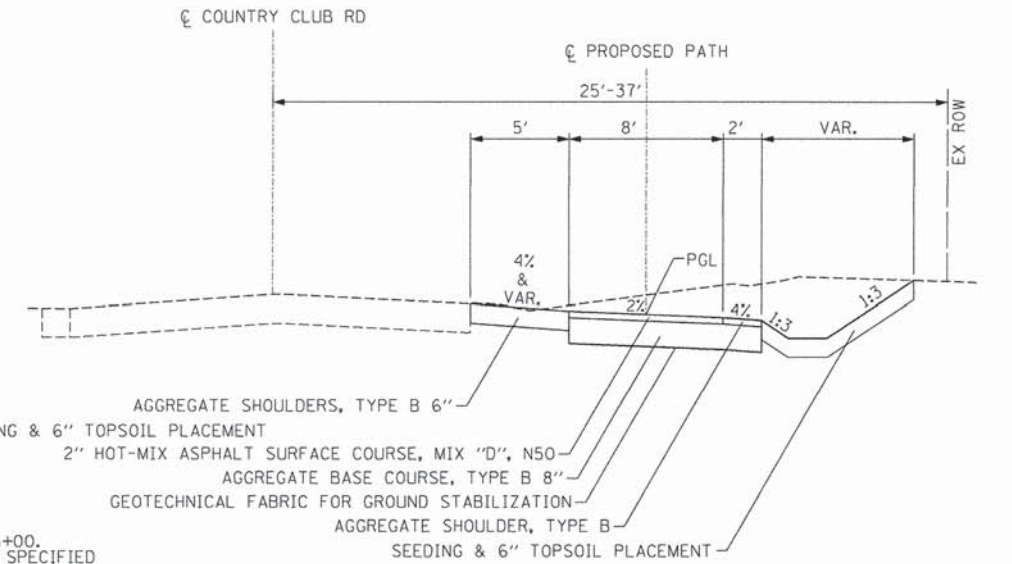
**PROPOSED TYPICAL SECTION**

(LOOKING EAST)  
STA. 99+82 TO STA. 104+53  
STA. 122+43 TO STA. 125+35  
PREFABRICATED BRIDGE OMISSION 125+35 TO 125+95  
STA. 125+95 TO STA. 126+76



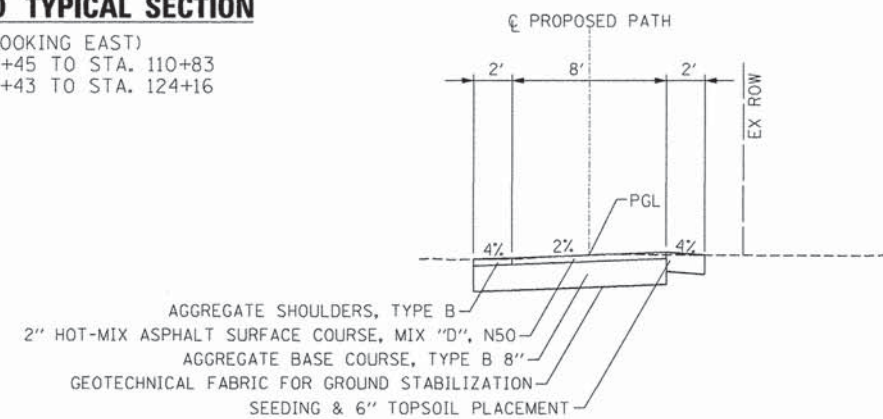
**PROPOSED TYPICAL SECTION**

(LOOKING EAST)  
STA. 106+45 TO STA. 110+83  
STA. 122+43 TO STA. 124+16



**PROPOSED TYPICAL SECTION**

(LOOKING EAST)  
STA. 104+53 TO STA. 106+45  
STA. 110+83 TO STA. 122+43  
STA. 126+76 TO STA. 133+00



**PROPOSED TYPICAL SECTION**

(LOOKING EAST)  
STA. 133+00 TO STA. 135+43

**HOT-MIX ASPHALT REQUIREMENTS**

MIXTURE TYPE	THICKNESS	VOIDS @ N <sub>DES</sub>
SHARED USE PATH (PAVEMENT) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	2" MIN.	4% @ 50 Gyr

NOTE: ALL EXISTING AND PROPOSED TYPICAL SECTIONS  
REFERENCE THE PROPOSED SHARED USE PATH STATIONING

FILE NAME =	DESIGNED - RJP	REVISED -
10421_sht_ttypicalsections.dgn	DRAWN - RJP	REVISED -
USER NAME = RJP	CHECKED - MPM	REVISED -
PLOT DATE = 12/3/2015	DATE = 12/03/2015	REVISED -

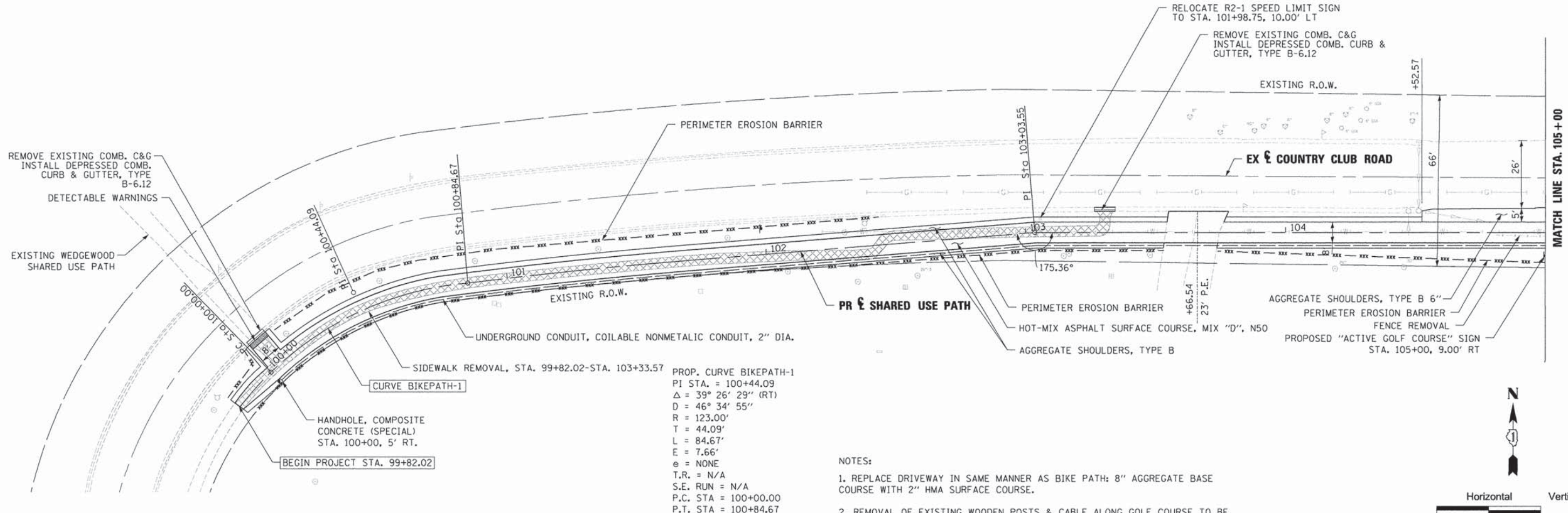


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

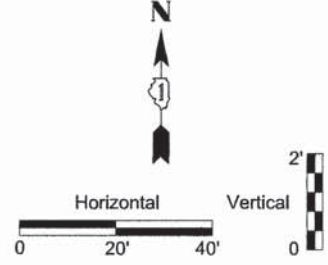
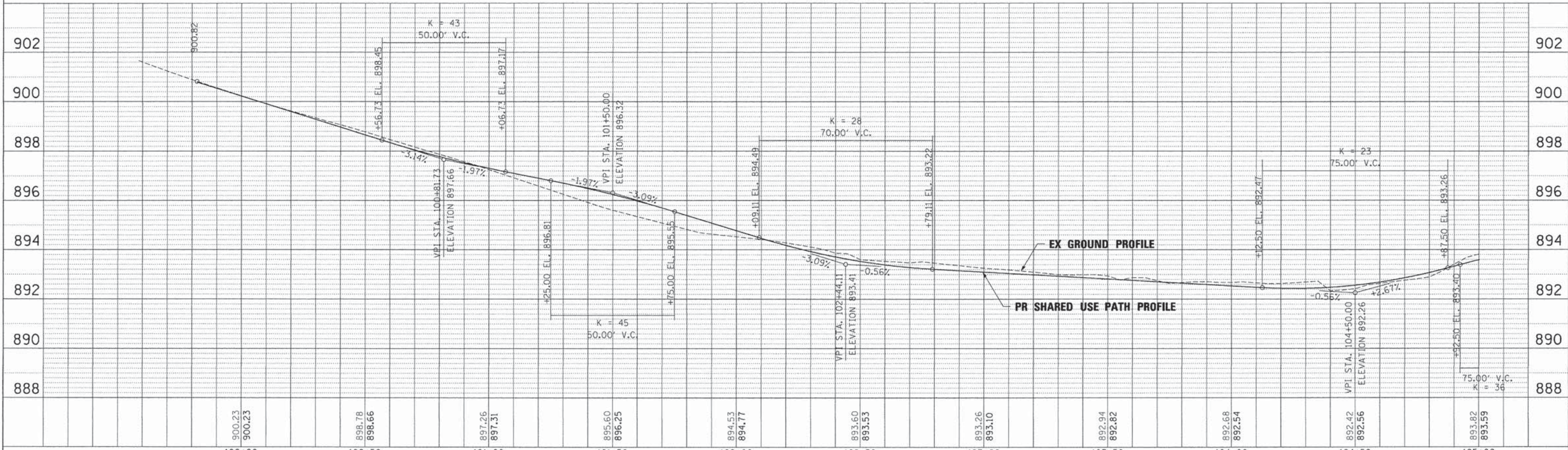
EXISTING AND PROPOSED TYPICAL SECTIONS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NTS		14-00122-00-BT	MCHENRY	39	9
SHEET NO. 1 OF 1 SHEETS		CONTRACT NO. 61B66		ILLINOIS FED. AID PROJECT	



DATE	
BY	
SURVEYED	
ALIGNED	
NOTED	
PLANNED	
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
DATE	
BY	
SURVEYED	
ALIGNED	
NOTED	
PLANNED	
DESIGNED	
DRAWN	
CHECKED	
APPROVED	



DATE	
BY	
SURVEYED	
GRADES CHECKED	
BLM. NOTED	
STRUCTURE NOTATIONS CHECKED	
DATE	
BY	
SURVEYED	
GRADES CHECKED	
BLM. NOTED	
STRUCTURE NOTATIONS CHECKED	



FILE NAME =	DESIGNED - RJP	REVISED -
PLNPRF-CCR-01.dgn	DRAWN - RJP	REVISED -
USER NAME = RJP	CHECKED - MPM	REVISED -
PLOT DATE = 12/3/2015	DATE = 12/03/2015	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

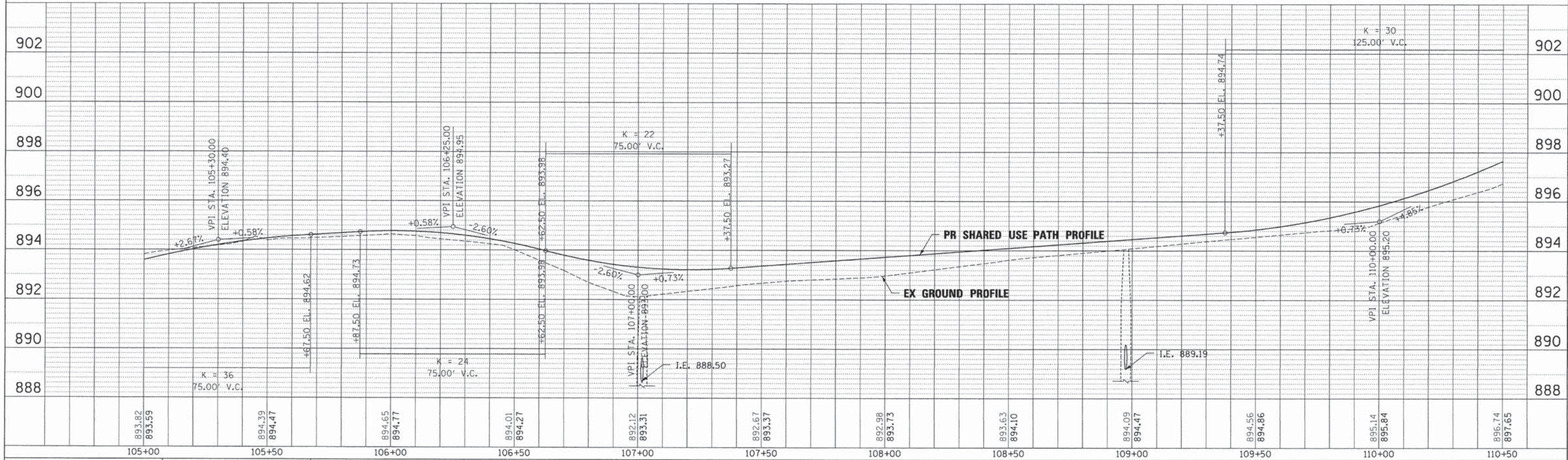
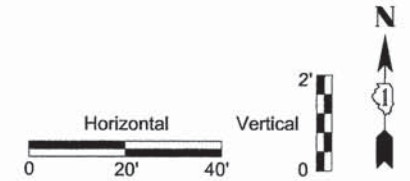
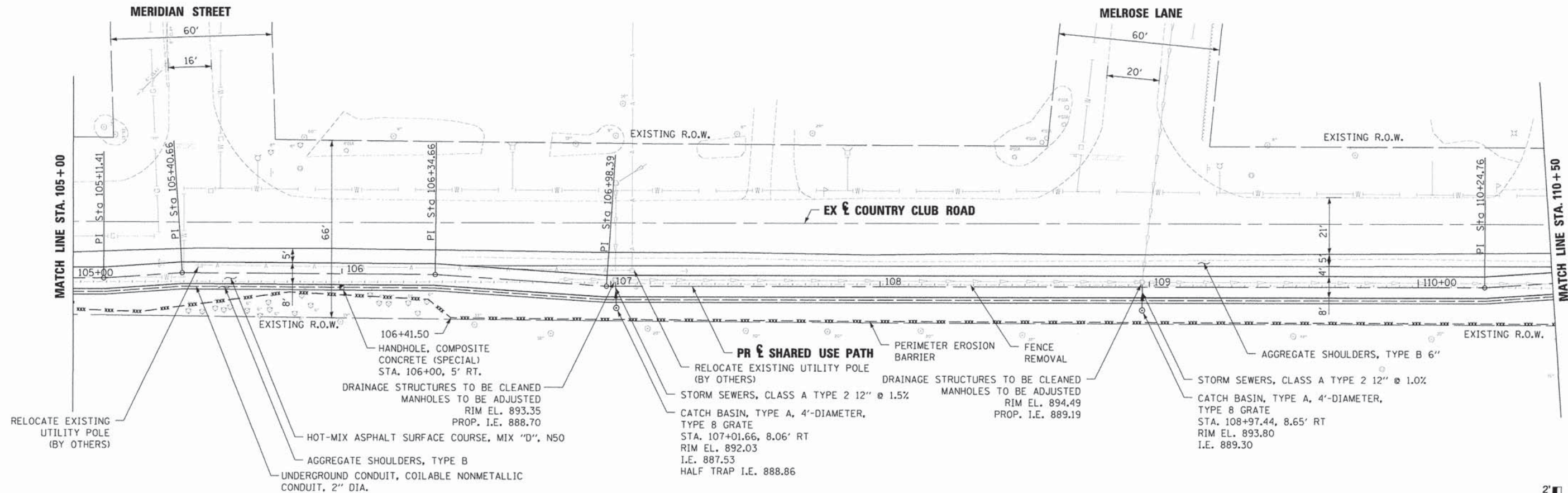
COUNTRY CLUB ROAD SHARED USE PATH PLAN AND PROFILE	
H: 1"=20' V: 1"=2'	SHEET NO. 1 OF 7 SHEETS STA. 100+00 TO STA. 105+00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	10
CONTRACT NO. 61B66		ILLINOIS FED. AID PROJECT	



PLAN	NO.	BY	DATE
SUBMITTED			
GRADES CHECKED			
ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
PROJ. FILE NAME			

PROFILE	NO.	BY	DATE
SUBMITTED			
GRADES CHECKED			
ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
PROJ. FILE NAME			



FILE NAME =	DESIGNED - RJP	REVISED -
PLNPRF-CCR-02.dgn	DRAWN - RJP	REVISED -
USER NAME = RJP	CHECKED - MPM	REVISED -
PLDT DATE = 12/3/2015	DATE = 12/03/2015	REVISED -

893.62	893.59	894.39	894.47	894.65	894.77	894.01	894.27	892.12	893.31	892.67	893.37	892.98	893.73	893.63	894.10	894.09	894.47	894.56	894.86	895.14	895.84	896.74	897.65	
105+00		105+50		106+00		106+50		107+00		107+50		108+00		108+50		109+00		109+50		110+00		110+50		



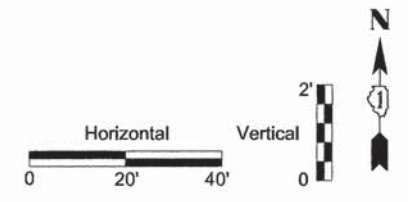
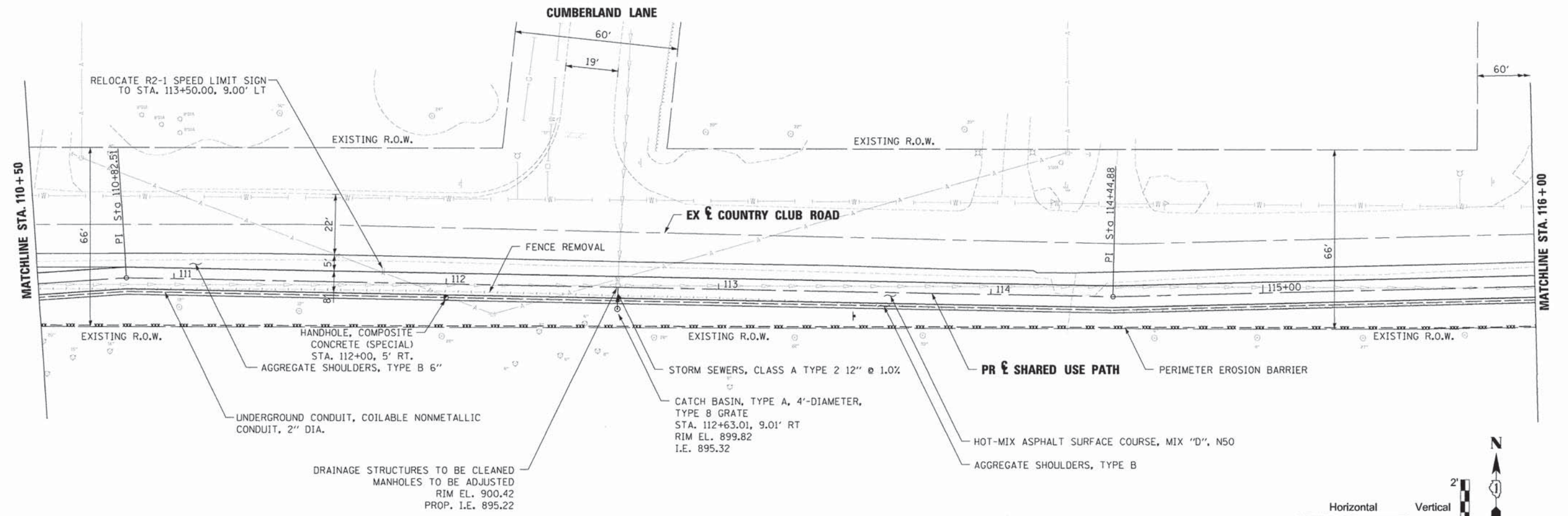
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COUNTRY CLUB ROAD SHARED USE PATH  
PLAN AND PROFILE  
H: 1"=20' V: 1"=2' SHEET NO. 2 OF 7 SHEETS STA. 105+00 TO STA. 110+50

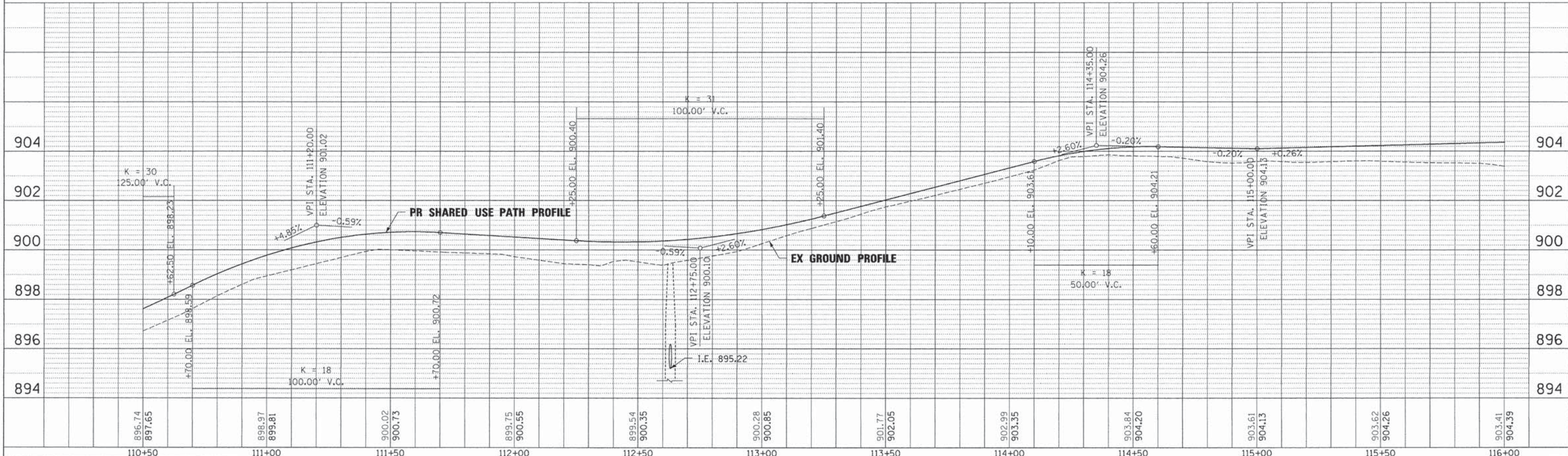
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	11
CONTRACT NO. 61B66		ILLINOIS FED. AID PROJECT	



PLAN	SURVEYED	BY	DATE
	ALIGNED		
	NOTED		
	RT. OF WAY CHECKED		
	NO.		
	FILE NAME		



PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

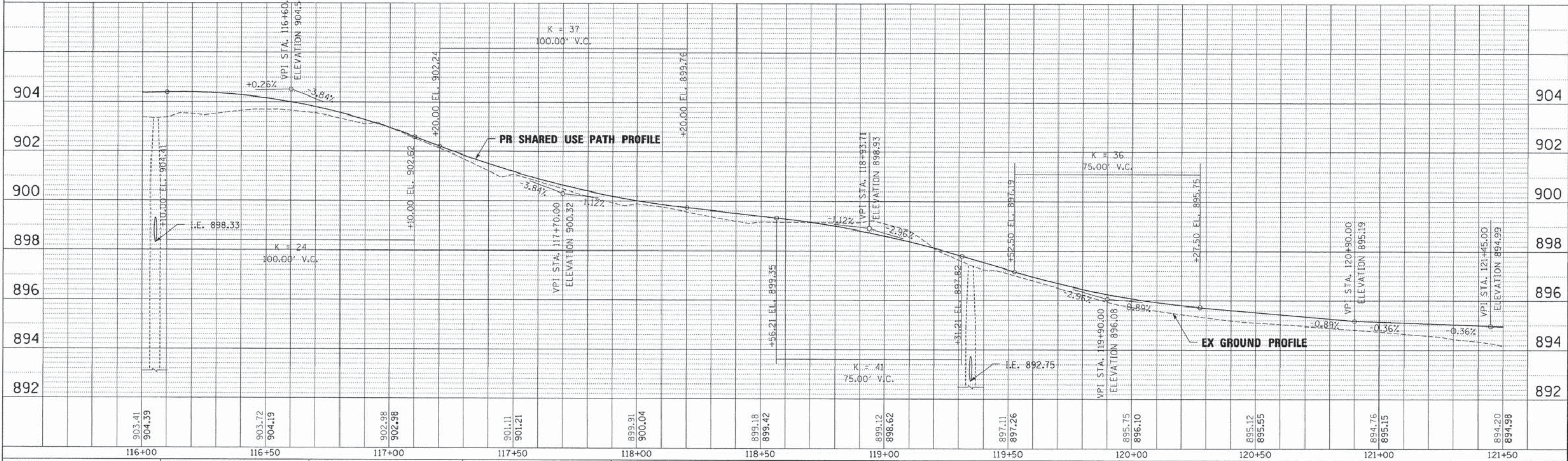
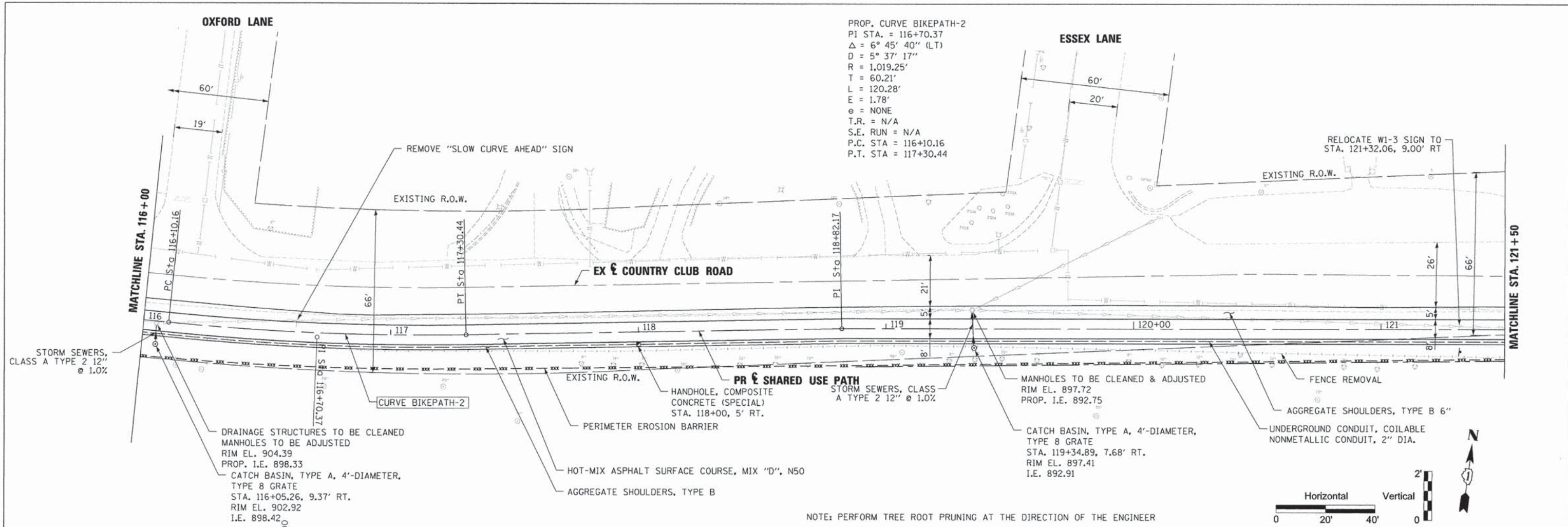


FILE NAME =	DESIGNED - RJP	REVISED -		<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>COUNTRY CLUB ROAD SHARED USE PATH</b> <b>PLAN AND PROFILE</b>		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLNPRF-CCR-03.dgn	DRAWN - RJP	REVISED -			14-00122-00-BT	MCHENRY	39	12		
USER NAME = RJP	CHECKED - MPM	REVISED -			CONTRACT NO. 61B66		ILLINOIS FED. AID PROJECT			
PLOT DATE = 12/3/2015	DATE = 12/03/2015	REVISED -			H: 1"=20' V: 1"=2'		SHEET NO. 3 OF 7 SHEETS STA. 110+50 TO STA. 116+00			



DATE	
BY	
REVIEWED	
PLAN	
NOTE BOOK	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
REVIEWED	
PROFILE	
NOTE BOOK	
NO.	
NO.	
NO.	
NO.	
NO.	



FILE NAME =	PLNPRF-CCR-04.dgn
DESIGNED -	RJP
DRAWN -	RJP
CHECKED -	MPM
DATE	12/03/2015

REVISED -	
REVISED -	
REVISED -	
REVISED -	



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

**COUNTRY CLUB ROAD SHARED USE PATH**  
**PLAN AND PROFILE**

H: 1"=20' V: 1"=2' SHEET NO. 4 OF 7 SHEETS STA. 116+00 TO STA. 121+50

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	13
CONTRACT NO. 61B66		ILLINOIS FED. AID PROJECT	







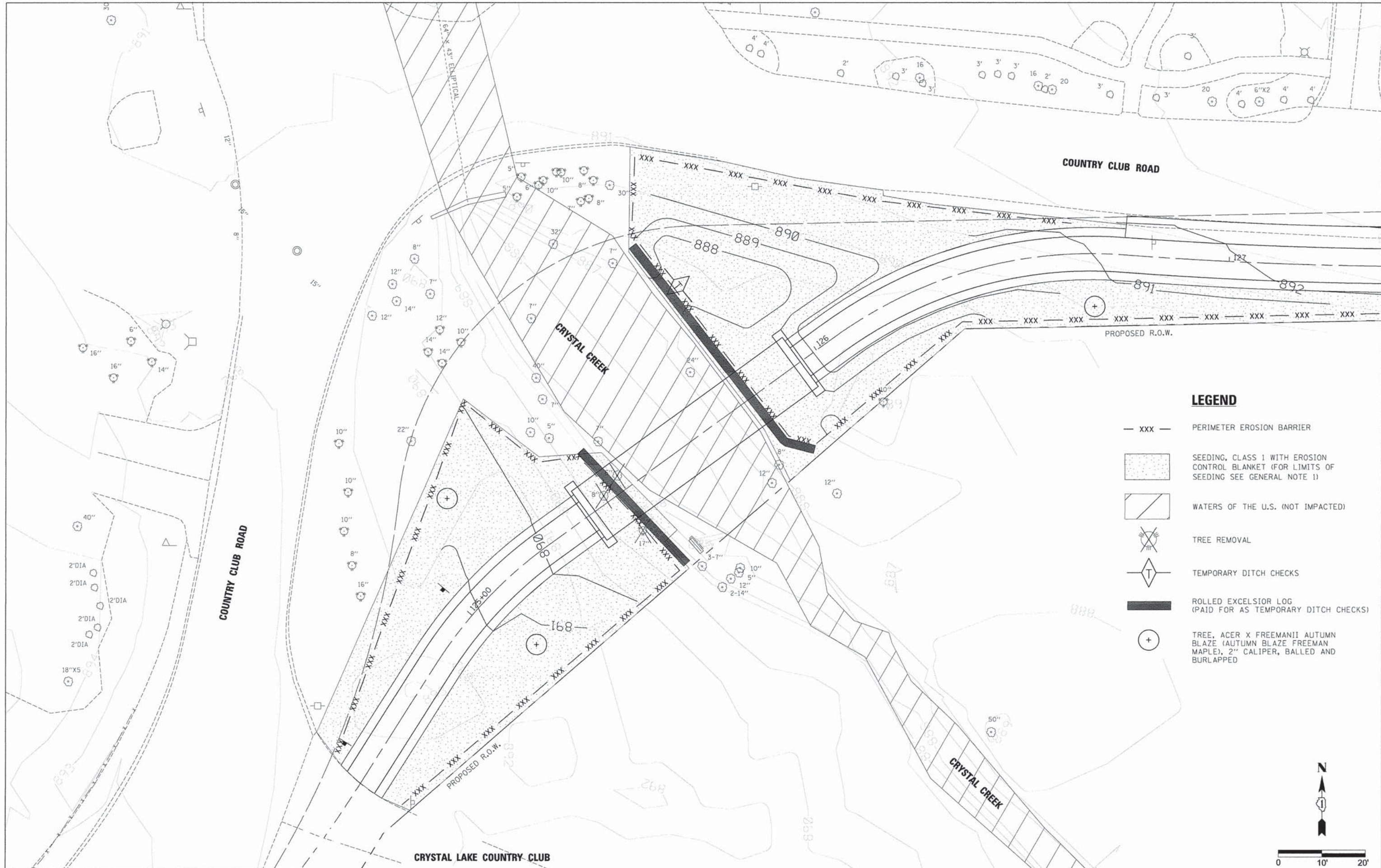








PLAN	DATE
BY	
SURVEYED	
ALIGNED	
CHECKED	
BY	
NO.	
FILE NAME	



- LEGEND**
- XXX — PERIMETER EROSION BARRIER
  - [Stippled Box] SEEDING, CLASS 1 WITH EROSION CONTROL BLANKET (FOR LIMITS OF SEEDING SEE GENERAL NOTE 1)
  - [Diagonal Lines Box] WATERS OF THE U.S. (NOT IMPACTED)
  - [Tree with X] TREE REMOVAL
  - [T in Diamond] TEMPORARY DITCH CHECKS
  - [Thick Line] ROLLED EXCELSIOR LOG (PAID FOR AS TEMPORARY DITCH CHECKS)
  - [Circle with +] TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2" CALIPER, BALLED AND BURLAPPED

CRYSTAL LAKE COUNTRY CLUB

FILE NAME =	DESIGNED - RJP	REVISED -
#FILEL#	DRAWN - RJP	REVISED -
USER NAME = #USER#	CHECKED - MPM	REVISED -
PLOT DATE = #DATE#	DATE - 12/03/2015	REVISED -



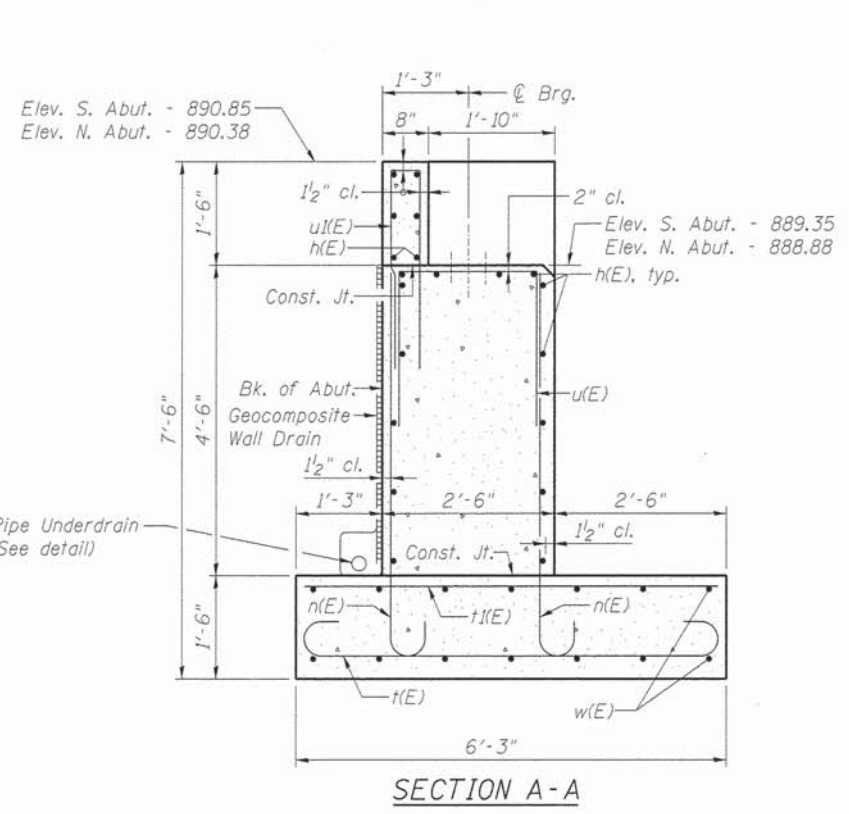
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND GRADING PLAN

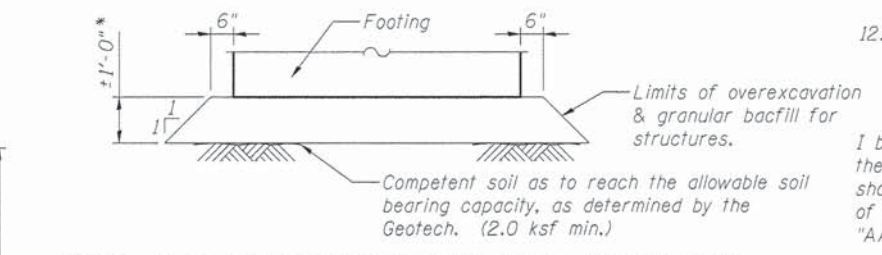
1"=10' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	17
		CONTRACT NO. 61B66	
ILLINOIS FED. AID PROJECT			





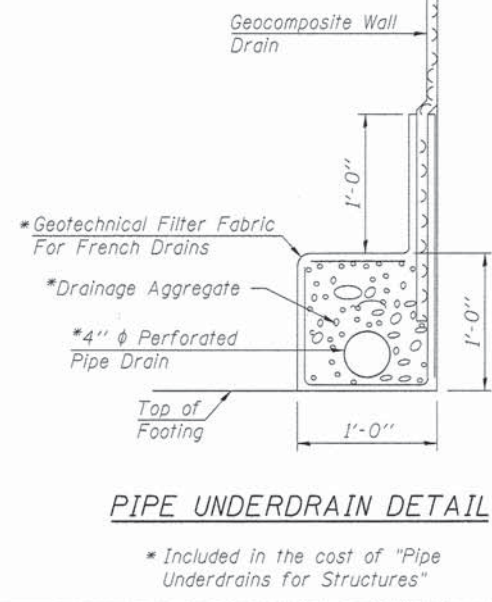
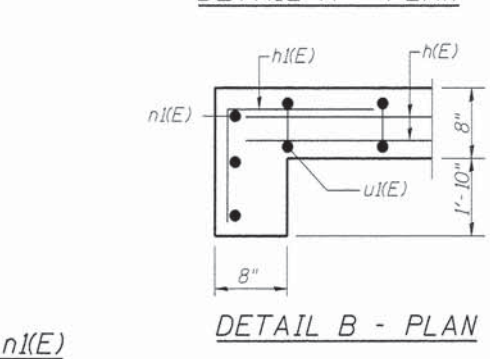
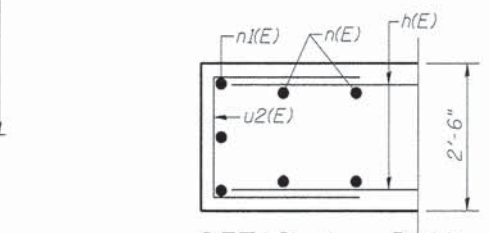
- NOTES:**
- All exposed concrete edges shall have a  $\frac{3}{4}$ " x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.
  - Reinforcement bars designated (E) shall be epoxy coated.
  - Concrete sealer shall be applied to the exposed areas of the backwall, seat, and front face of the abutment full length of the abutments.
  - The abutment backwall above the bridge seat shall be poured after the superstructure is in place.
  - Space reinforcement bars in bearing seat to miss anchor bolts.
  - Contractor shall not scale dimensions from the Contract Plans for construction purposes.
  - No construction joints except those shown on the plans will be allowed unless approved by the Engineer.
  - It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
  - The station and offsets are with reference to proposed  $\text{C}$  of Bike Path, see Civil Drawings for Details.
  - Underdrains shall outlet to pond northwest of pedestrian bridge through concrete headwalls. (See highway Standard 601101).
  - A representative of Rubino Engineering shall be present and shall inspect all excavation activities prior to placing any concrete or reinforcement.
  - The estimated quantity for Structure Excavation includes overexcavation at the abutments, if required.



I believe that to the best of my knowledge, information and belief, the bridge substructure is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO Bridge Design Specifications".

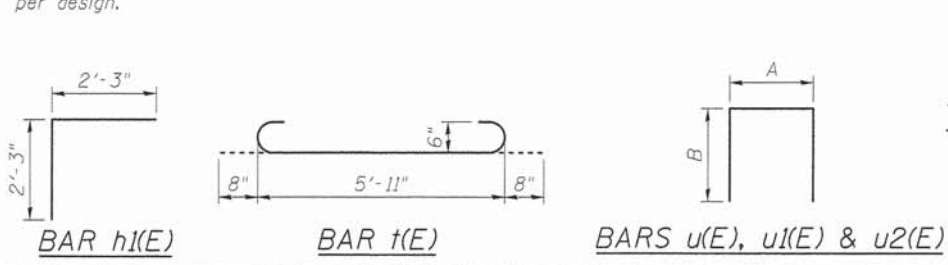
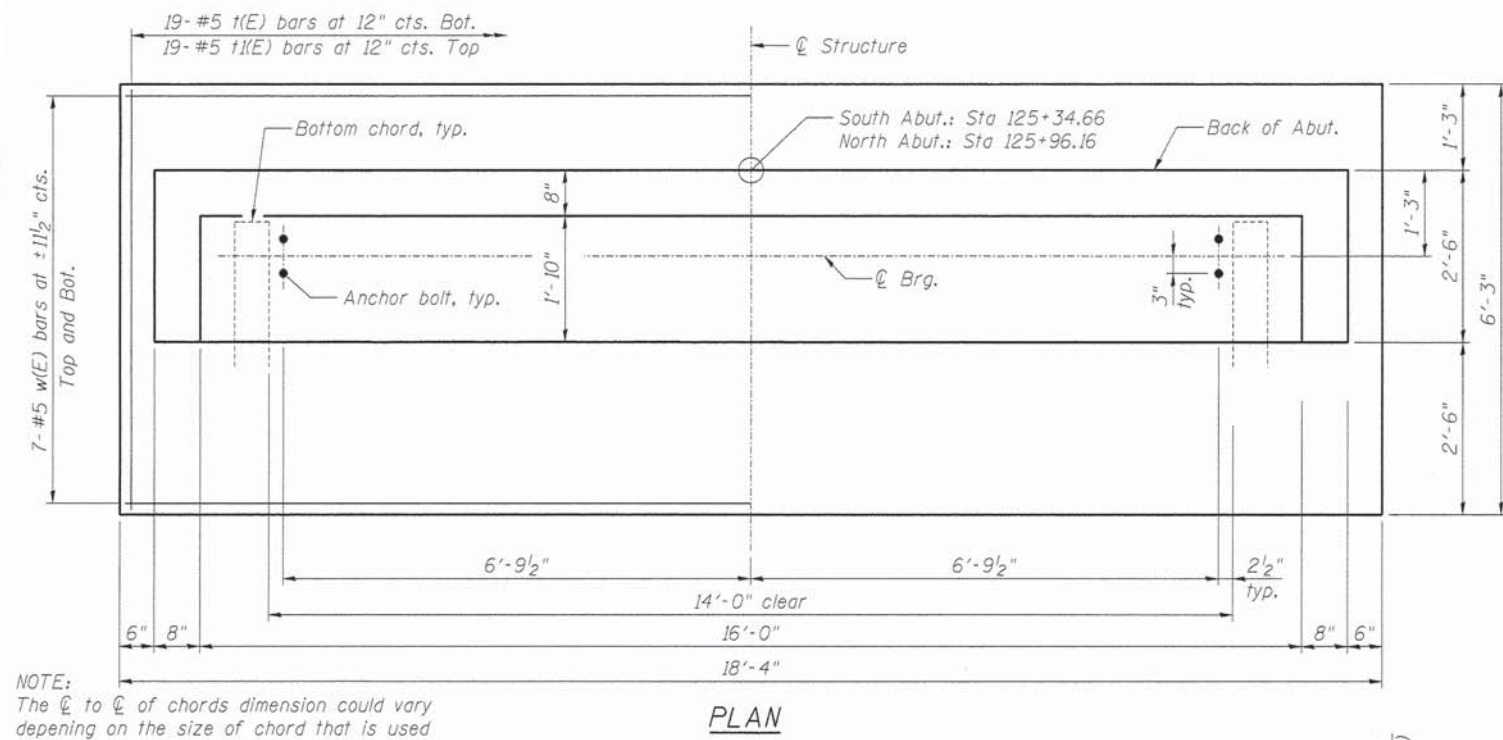
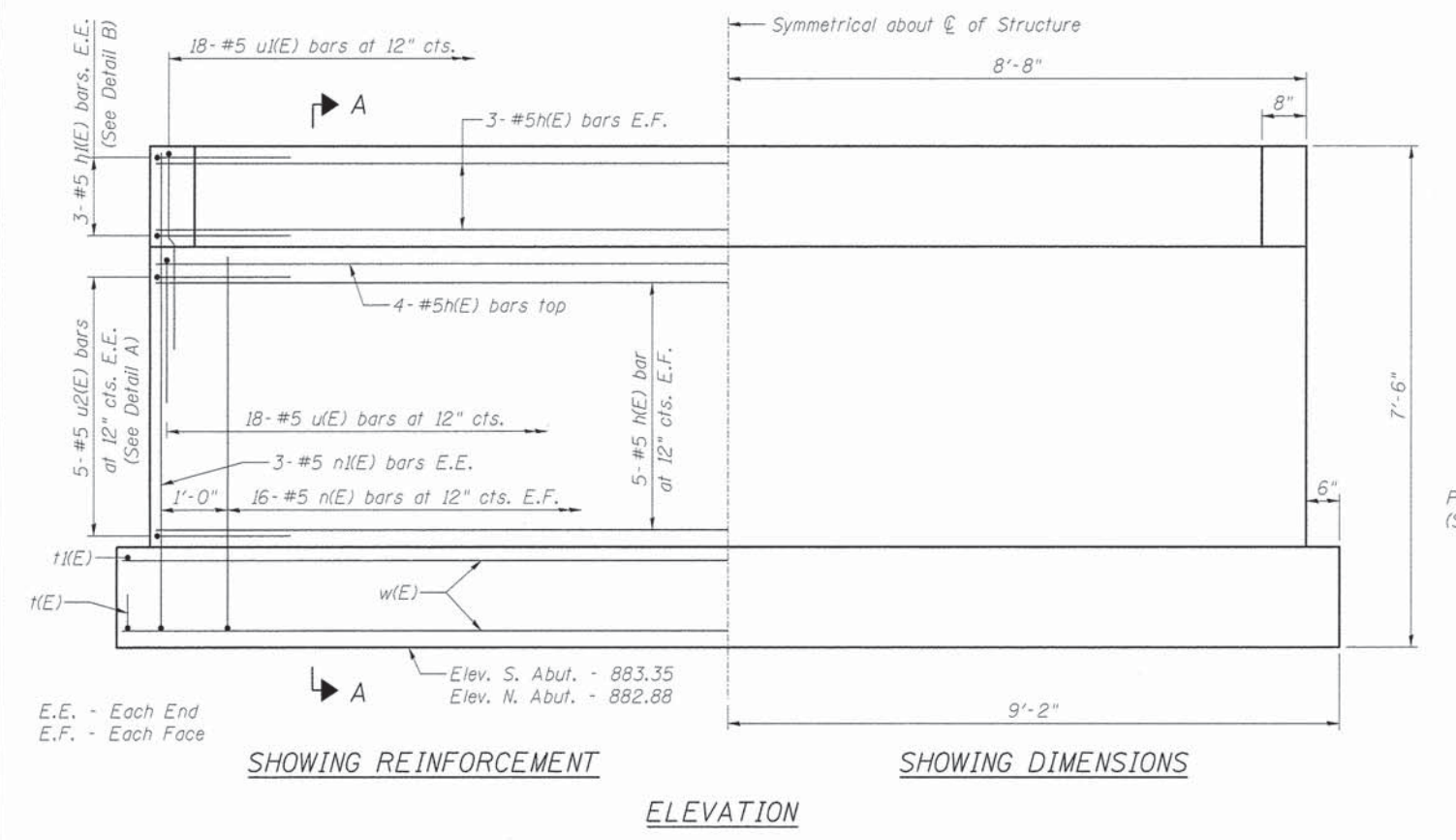
\*The need for and depth of overexcavation shall be determined by the Geotech in the field. It is estimated that the overexcavation could be  $\pm 1'-0"$  deep. If overexcavation is required, it shall be backfilled with CA-6 and compacted as required by the Geotechnical report prepared by Rubino Engineering Inc. for this project.

**OVEREXCAVATION DETAILS (IF REQ'D)**



**BILL OF MATERIAL (2 ABUTMENTS)**

Bar	No.	Size	Length	Shape
h(E)	40	#5	17'-0"	—
h(E)	12	#5	4'-6"	┌
n(E)	64	#5	6'-3"	—
n(E)	12	#5	7'-9"	—
t(E)	38	#5	7'-3"	—
t(E)	38	#5	5'-2"	—
u(E)	36	#5	6'-9"	—
u(E)	36	#5	7'-11"	—
u2(E)	20	#5	5'-9"	—
w(E)	28	#5	18'-0"	—
Structure Excavation			Cu. Yd.	137
Concrete Structures			Cu. Yd.	28.7
Reinforcement Bars, Epoxy Coated			Pound	2,970
Concrete Sealer			Sq. Ft.	392
Geocomposite Wall Drain			Sq. Yd.	18
Granular Backfill for Structures			Cu. Yd.	11
Pipe Underdrains for Structures 4"			Foot	76



FILE NAME =	DESIGNED - SLV	REVISED -
#FILE#	CHECKED - WHE	REVISED -
USER NAME = #USER#	DRAWN - SLV	REVISED -
PLOT DATE = #DATE#	CHECKED - WHE	REVISED -

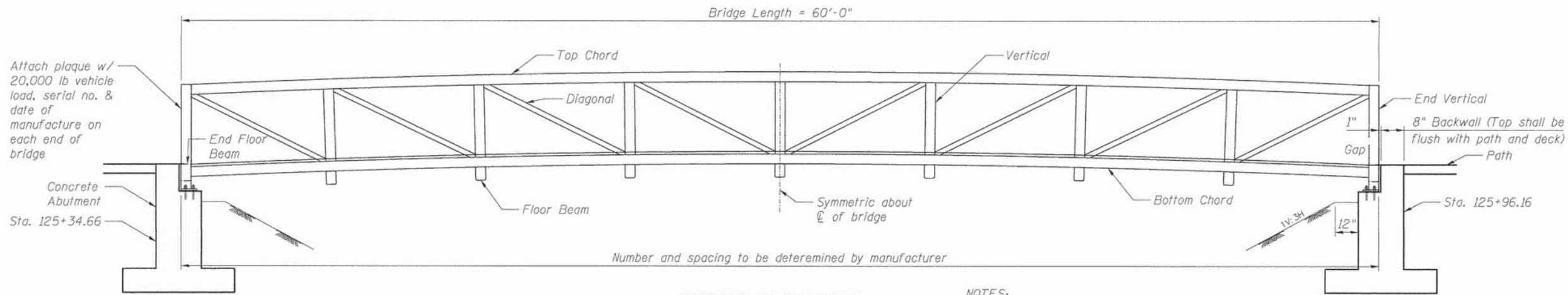


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFABRICATED BRIDGE ABUTMENT DETAILS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	18
		CONTRACT NO. 61B66	
[ILLINOIS] FED. AID PROJECT			





**BRIDGE ELEVATION**

**DESIGN SPECIFICATIONS**

2009 AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges, 2nd Edition  
 2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interim Revisions

**DESIGN STRESSES**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**NOTES:**  
 Bridge shall have  $1\frac{1}{2}$ " Camber plus Dead Load Deflection Camber (Determined by Manufacturer)  
 Safety rail and rub rail not shown in elevation. See bridge section for details

**GENERAL NOTES**

- Design stresses are in accordance with "Standard Specification for Highway Bridges" 6th Edition & "Guide Specifications for Design of Pedestrian Bridges" 2009 by AASHTO.
- Bridge members are to be fabricated from high strength, low alloy, enhanced atmospheric corrosion resistant ASTM 487 cold-formed welded square and rectangular tubing, and ASTM 588, ASTM A606, or ASTM A242 plate and structural shapes ( $f_y=50$  ksi.).
- Bridge decking shall be nominal 3-inch thick select structural fir #1 or better ( $f_b = 1,400$  psi min.).
- Gas metal arc welding process or flux cored arc welding process shall be used. Welding to be in accordance with AWS D1.1.
- All top and bottom chord shop splices to be complete penetration type welds. Weld between top chord and end vertical shall be designed and detailed by manufacturer.
- Unless otherwise noted, welded connections shall be fillet welds (or have the effective throat of a fillet weld) of a size equal to the thickness of the lightest gage member in the connection. Welds shall be applied as follows:

- Both ends of verticals, diagonals and floor beams shall be welded all around.
  - Brace diagonals will be welded all around.
  - Bottom of stringers will be stitch welded to top of floor beams.
  - Miscellaneous non-structural members will be stitch welded to their supporting members.
- Bridge design shall be based on combinations of the following loads which will produce maximum stress in each member.

- 90 psf uniform live loading on the full deck area, or one 20,000 lb. vehicle load. The load shall be distributed as a four-wheel vehicle with 80% of the load on the rear wheels. The wheel track width of the vehicle shall be 6'-0" and the wheel base shall be 14'-0". The vehicle shall be positioned so as to produce the maximum stresses in each member, including decking.

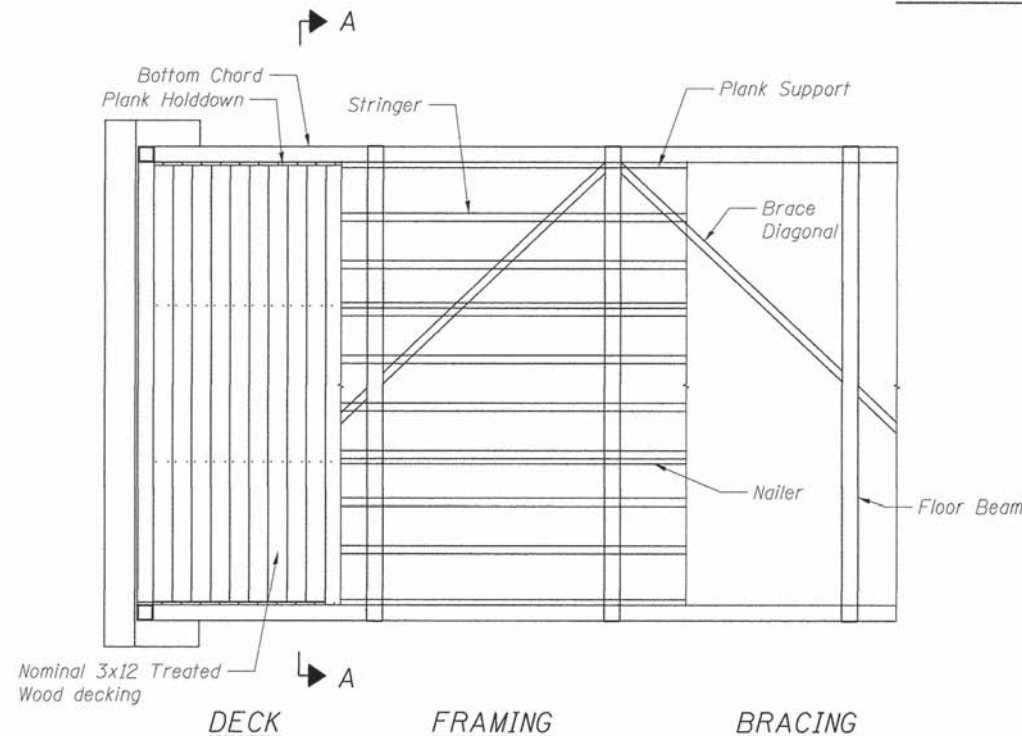
**GENERAL NOTES CONT'D**

- 35 psf wind load on the full height of the bridge, as if enclosed.
- 20 psf upward force applied at the windward quarter point of the transverse bridge width. (AASHTO 3.8.2)
- Additional design wind loads for pedestrian trusses in Illinois GBSP 33 as applicable, see design specifications.
- Allowable bearing pressure to be confirmed by Rubino Engineering Inc. in the field. Minimum allowable bearing pressure used for design shall be 2000 psf. See Geotechnical Report prepared by Rubino Engineering Inc, dated 12-5-14, report no. G14.091, for additional Geotechnical requirements.
- The following loads were used for the design of the abutment. If the loads are increased from those shown, a redesign of the abutment by the Contractor (at no additional cost to the project) is required.

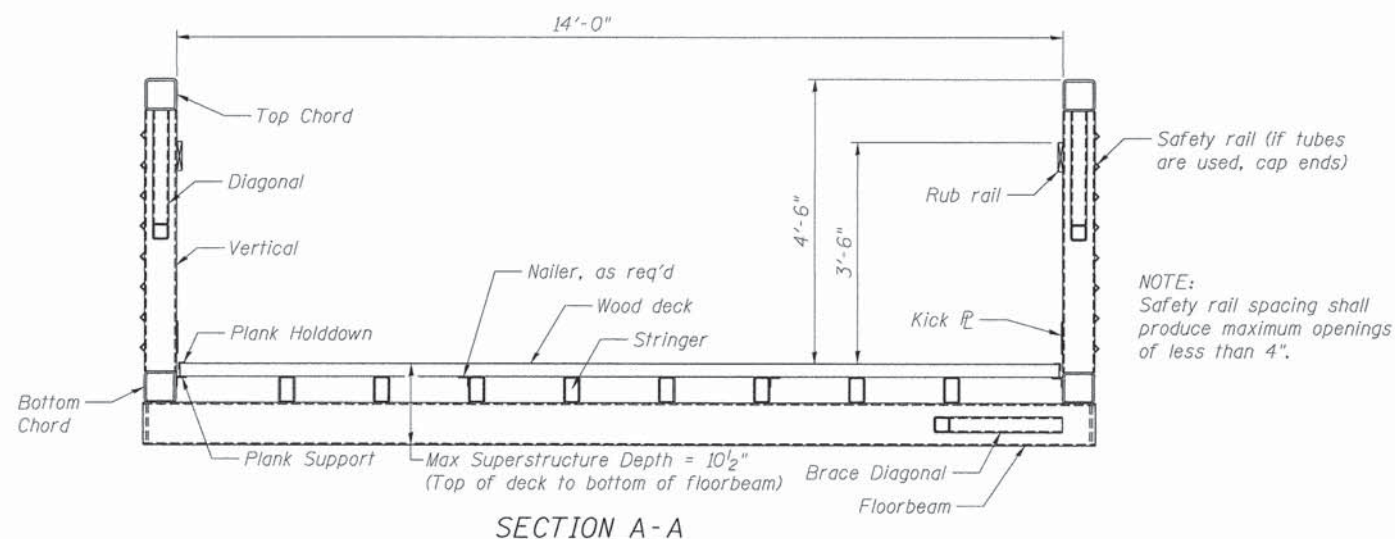
BRIDGE REACTIONS	P (lbs)	H (lbs)	L (lbs)
Dead Load	8,150		
Uniform Live Load	19,850		
Vehicle Live Load	10,000		
Wind Uplift (20 psf) - Winward	-7,100		
Wind Uplift (20 psf) - Leeward	-2,400		
Wind	+1,200	5,700	
Thermal			1,225

"P" - Vertical load at each Base  $\bar{L}$ .  
 "H" - Horizontal load at each abutment.  
 "L" - Longitudinal load at each Base  $\bar{L}$ .  
 "+" - Downward load  
 "-" - Upward Load

- Cleaning: All exposed surfaces of steel shall be cleaned in accordance with Steel Structures Painting Council Surfaces Preparation specifications no. 7 brush-off blast cleaning. SSPC-SP7-Latest edition.
- Minimum material thickness of  $\frac{1}{4}$ " on all structural members.
- The nameplate plaque shall be installed by the bridge manufacturer and is incidental to the cost of the bridge. Serial number to be assigned by manufacturer. Plaque to be approved by the Engineer.



**BRIDGE PLAN**  
(Showing Levels)



**SECTION A-A**

**NOTE:**  
 Safety rail spacing shall produce maximum openings of less than 4".

FILE NAME = 18421_sht_abutment.dgn	DESIGNED - SLV	REVISED -
USER NAME = RJP	CHECKED - WHE	REVISED -
PLDT DATE = 12/3/2015	DRAWN - SLV	REVISED -
	CHECKED WHE	REVISED -



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

**PREFABRICATED BRIDGE**

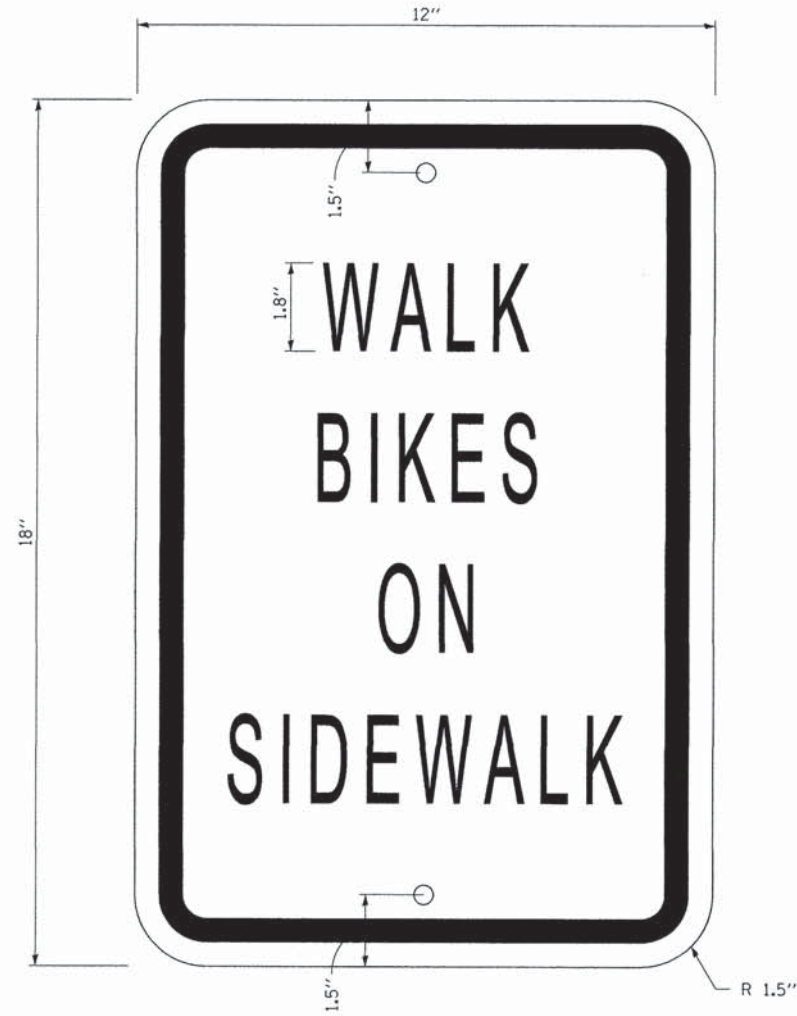
SHEET NO. 2 OF 2 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	19
		CONTRACT NO. 61B66	

ILLINOIS FED. AID PROJECT



PLAN	DATE
NO.	
BY	
DESIGNED	
DRAWN	
CHECKED	
REVISIONS	
DATE	
FILE NAME	



**R9-5 (SPECIAL)**



**ACTIVE GOLF COURSE SIGN**

FILE NAME =	DESIGNED - RJP	REVISED -
#FILEL#	DRAWN - RJP	REVISED -
USER NAME = #USER#	CHECKED - MPM	REVISED -
PLOT DATE = #DATE#	DATE - 12/03/2015	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGN DETAILS			
SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	20
CONTRACT NO. 61B66			
ILLINOIS FED. AID PROJECT			



PLAN	DATE
SURVEYED	BY
ALIGNED	BY
CHECKED	BY
NO. OF WAY CHECKED	
ADD FILE NAME	



<p>665 Tollgate Rd. Unit H Elgin, Illinois 60123</p>	<b>Project Name:</b> Country Club Road Bike Path <b>Project Location:</b> Country Club Road Crystal Lake, Illinois <b>Client:</b> Alfred Benesch & Company <b>Rubino Project #:</b> G14.091	<b>Boring Location Plan (1 of 5)</b>
--	---	--------------------------------------

rubino ENGINEERING INC.		Rubino Engineering, INC. 665 Tollgate Road Unit H Elgin, Illinois 60123 Telephone: 847-931-1555 Fax: 847-931-1560		LOG OF BORING B-01		Sheet 1 of 1	
Rubino Job No.: G14.091 Project: Country Club Road Bike Path Location: Country Club Road City, State: Crystal Lake, Illinois Client: Alfred Benesch & Company		Drilling Method: 2 1/2" Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: CME Automatic Boring Location: Country Club Road Crystal Lake, Illinois		<b>WATER LEVELS</b> While Drilling: N/A Upon Completion: N/A Delay: N/A		Station: N/A Offset: N/A	
Elevation (feet)	Depth (feet)	Graphic Log	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA
900	0				Surface Elev.: 900.2 ft TOPSOIL: Black and brown silty clay with sand and gravel		
895	5		1	12	Brown silty CLAY with sand and gravel; Medium stiff to hard	CL	4,16,18 N=34
			2	12			14,7,5 N=12
			3	12			1,3,2 N=5
			4	12	Brown SAND, trace fines; Loose End of boring at 10 feet. No free groundwater was encountered during drilling operations.	SP	3,4,5 N=9
Completion Depth: 10.0 ft		Date Boring Started: 12/4/14		Date Boring Completed: 12/4/14		Logged By: B.S.	
Drilling Contractor: G.T.C.		Sample Types: Auger Cutting, Split-Spoon, Rock Core		Shelby Tube, Hand Auger, Texas Cone		Latitude: Longitude: Drill Rig: CME 550 Remarks: Bike Path	

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.		Rubino Engineering, INC. 665 Tollgate Road Unit H Elgin, Illinois 60123 Telephone: 847-931-1555 Fax: 847-931-1560		LOG OF BORING B-02		Sheet 1 of 1	
Rubino Job No.: G14.091 Project: Country Club Road Bike Path Location: Country Club Road City, State: Crystal Lake, Illinois Client: Alfred Benesch & Company		Drilling Method: 2 1/2" Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: CME Automatic Boring Location: Country Club Road Crystal Lake, Illinois		<b>WATER LEVELS</b> While Drilling: N/A Upon Completion: N/A Delay: N/A		Station: N/A Offset: N/A	
Elevation (feet)	Depth (feet)	Graphic Log	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA
895	0				Surface Elev.: 899.4 ft TOPSOIL: Black and brown clayey silt with sand and gravel		
			1	12			1,4,5 N=9
			2	12	Brown and gray silty CLAY, trace sand and gravel; Medium stiff	CL	2,3,3 N=6
			3	12	Gray silty CLAY, trace sand and gravel; Medium stiff to very stiff	CL	2,3,4 N=7
			4	12	End of boring at 10 feet. No free groundwater was encountered during drilling operations.		5,7,10 N=17
Completion Depth: 10.0 ft		Date Boring Started: 12/4/14		Date Boring Completed: 12/4/14		Logged By: B.S.	
Drilling Contractor: G.T.C.		Sample Types: Auger Cutting, Split-Spoon, Rock Core		Shelby Tube, Hand Auger, Texas Cone		Latitude: Longitude: Drill Rig: CME 550 Remarks: Bike Path	

The stratification lines represent approximate boundaries. The transition may be gradual.

FILE NAME = 10421_sht_soilboring-01.dgn	DESIGNED - RJP	REVISED -
USER NAME = RJP	DRAWN - RJP	REVISED -
PLOT DATE = 12/3/2015	CHECKED - MPM	REVISED -
	DATE - 12/03/2015	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

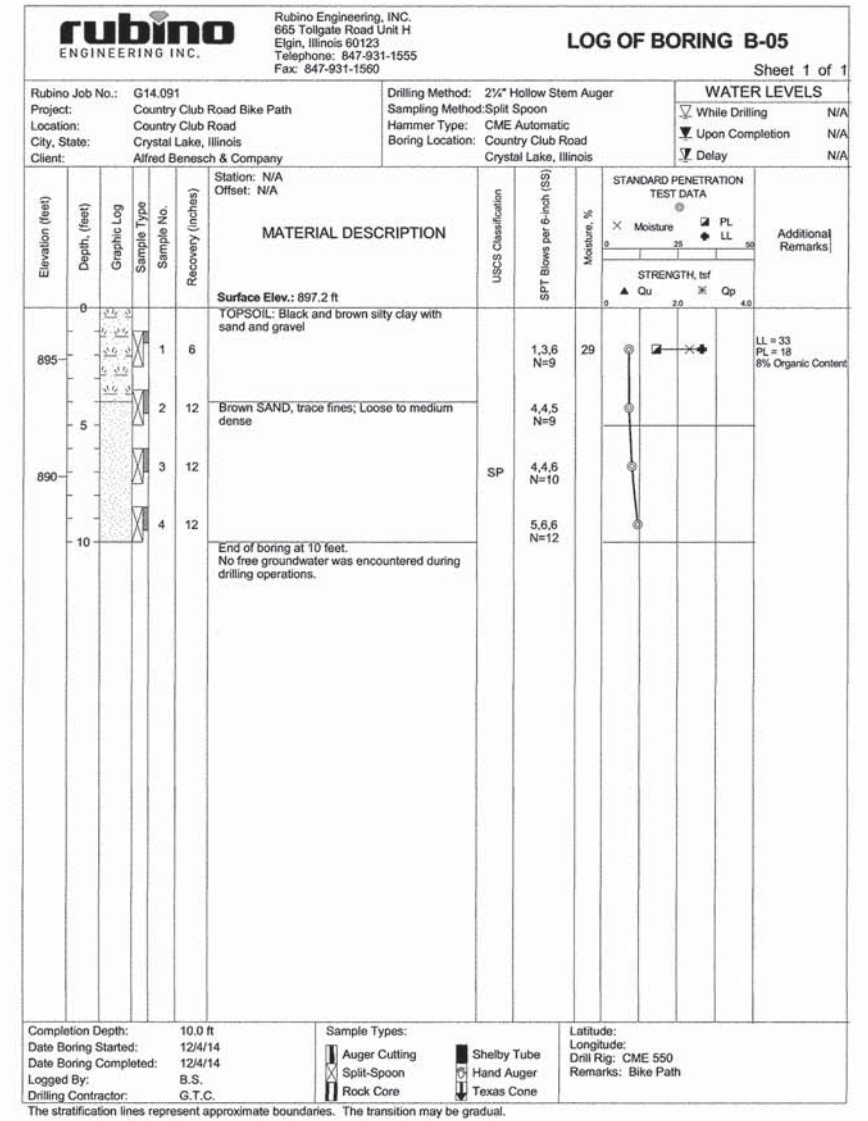
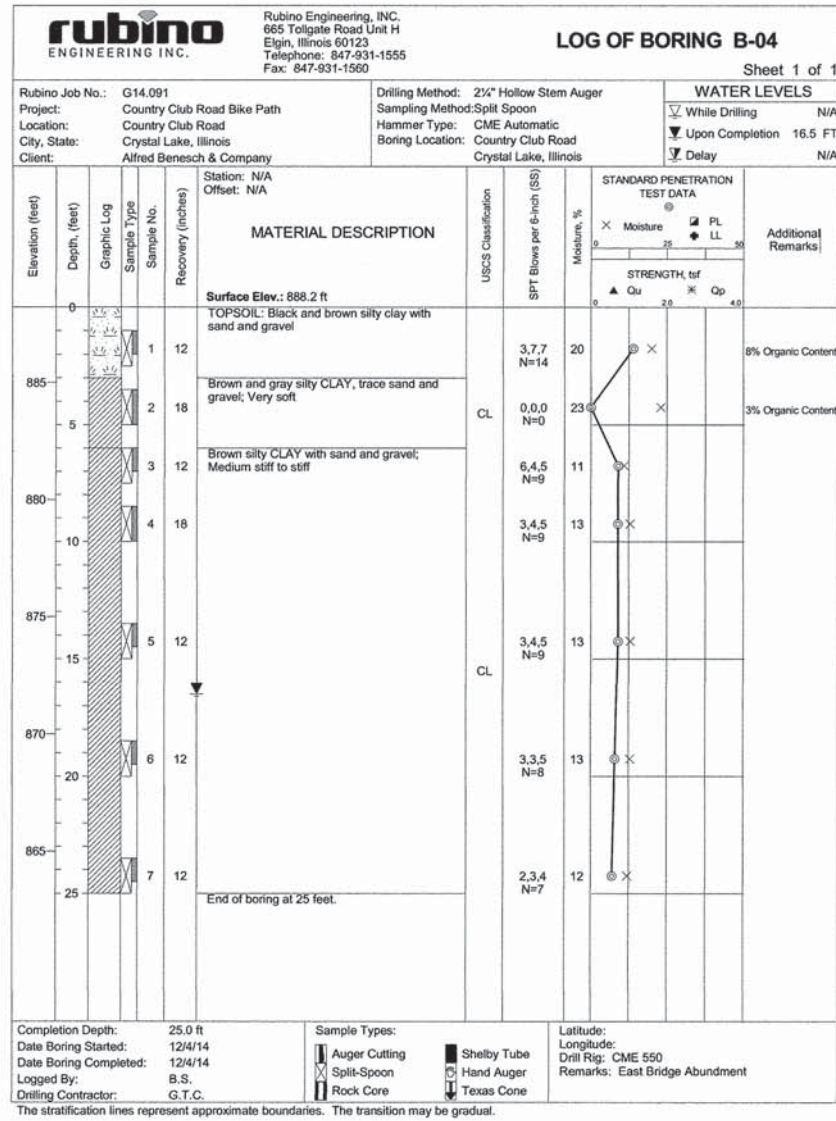
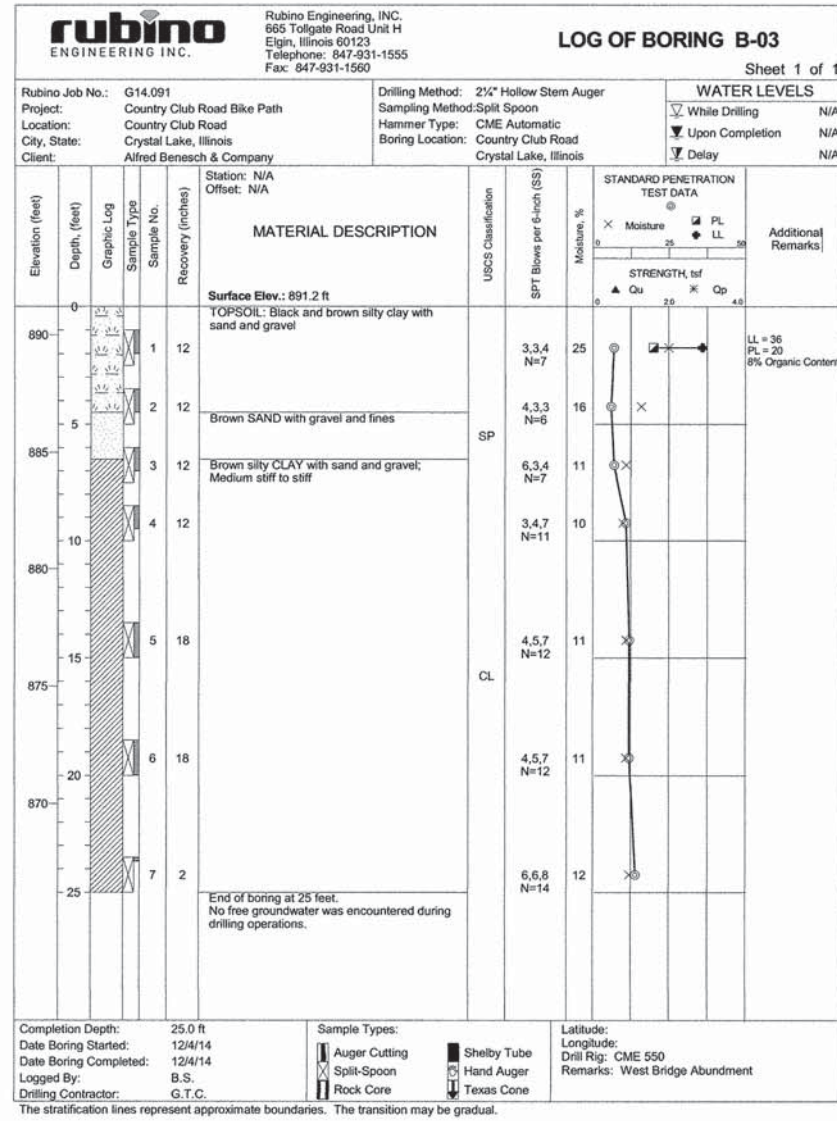
SOIL BORINGS

SCALE: NTS SHEET NO. 1 OF 2 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	21
CONTRACT NO. 61B66			
ILLINOIS FED. AID PROJECT			



DATE	
BY	
FILE NAME	
DESIGNED	
DRAWN	
CHECKED	
LOGGED	
DATE	



FILE NAME = 10421_sht_soilboring_02.dgn	DESIGNED - RJP	REVISED -
USER NAME = RJP	DRAWN - RJP	REVISED -
PLOT DATE = 12/3/2015	CHECKED - MPM	REVISED -
	DATE - 12/03/2015	REVISED -



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS**

SCALE: NTS      SHEET NO. 2 OF 2 SHEETS      STA.      TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00122-00-BT	MCHENRY	39	22
		CONTRACT NO. 61B66	
ILLINOIS FED. AID PROJECT			



VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

**BASIS OF PAYMENT:**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96
ct\pw\work\pwsdot\drivakosgn\d0100315\bd24.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09

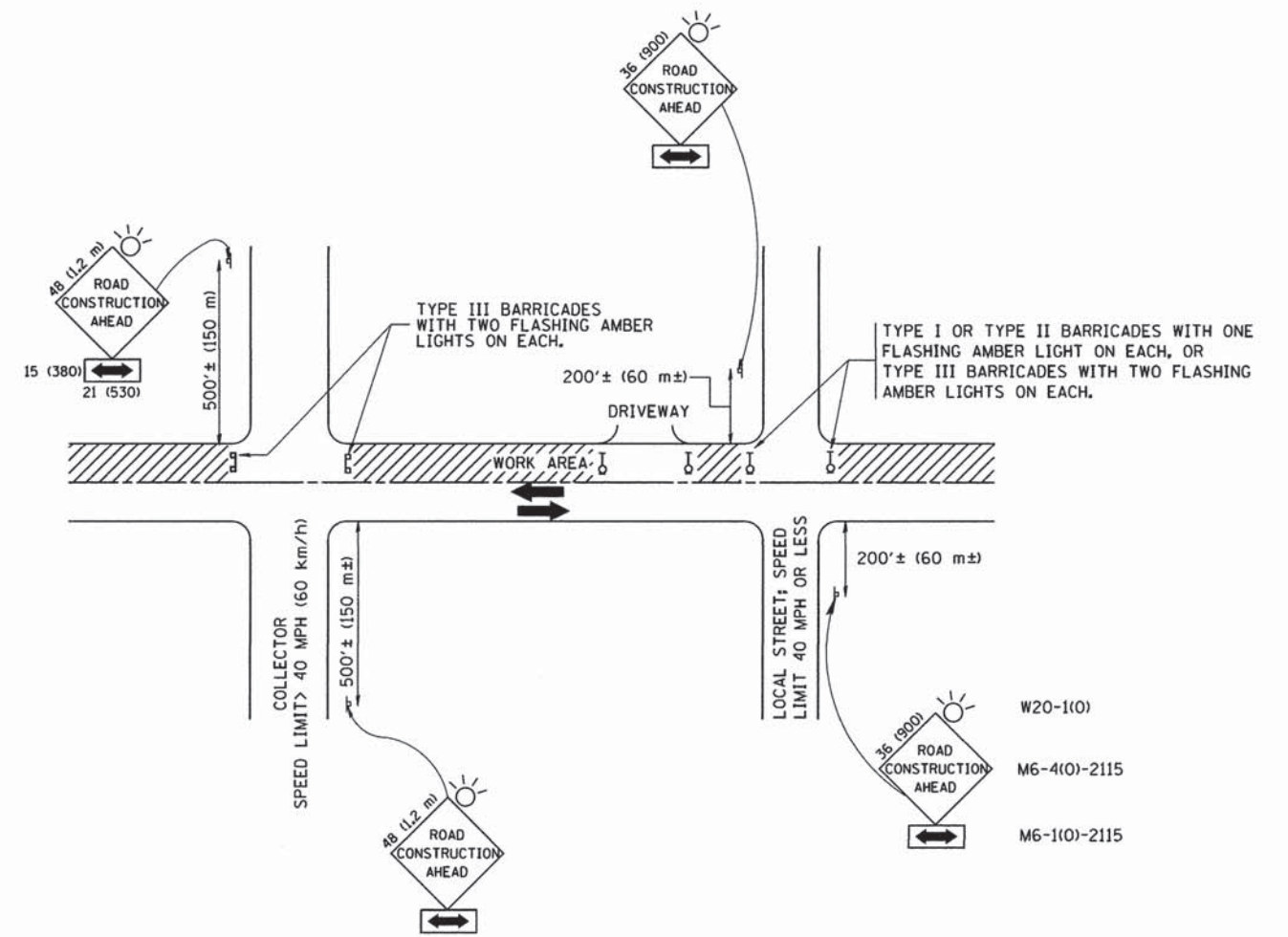
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	23
BD600-06 (BD-24)			CONTRACT NO. 61B66	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





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.

FILE NAME = W:\diststd\22x34\tcl0.dgn	USER NAME = gegl1enobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

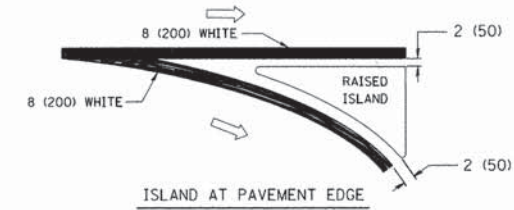
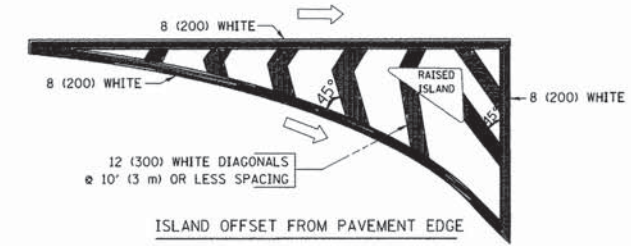
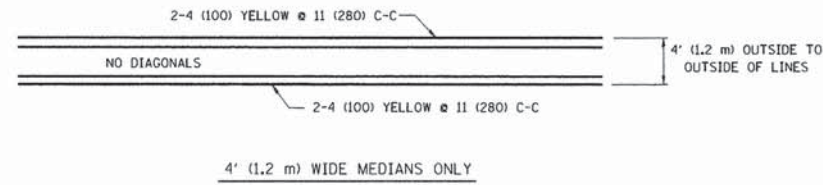
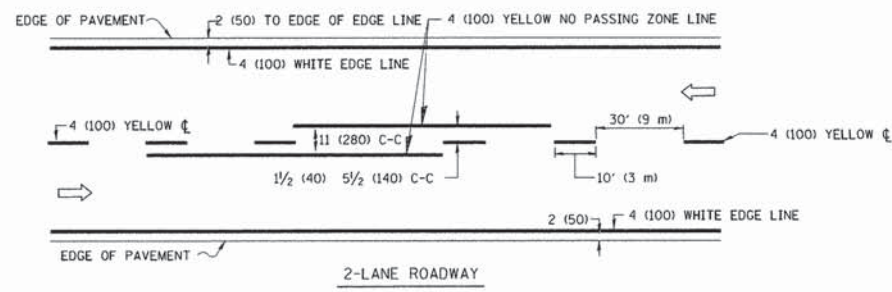
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

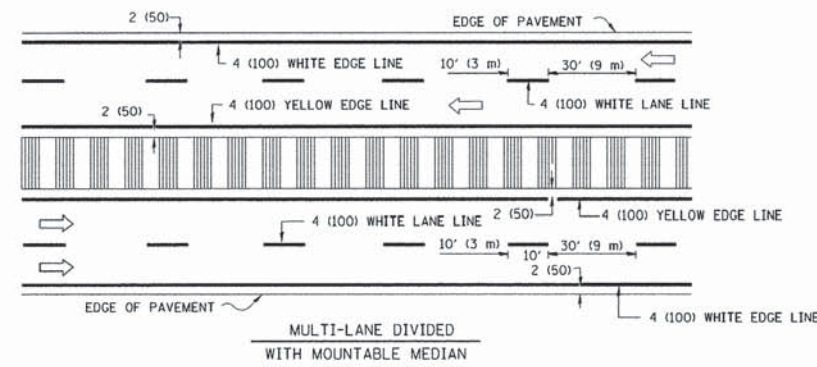
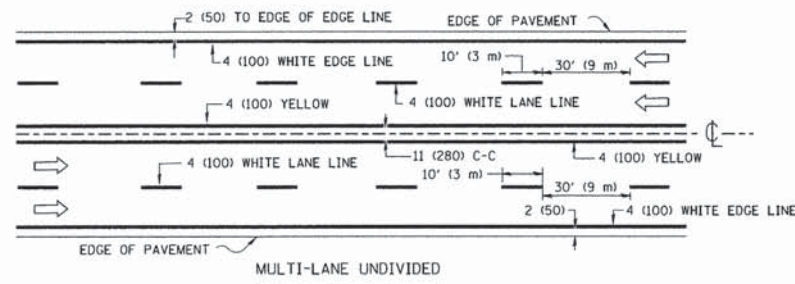
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	24
	TC-10	CONTRACT NO.	61B66	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



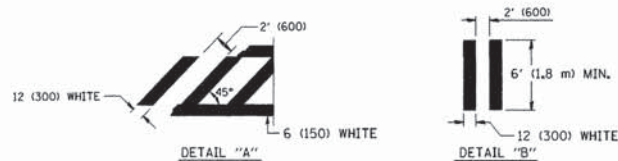
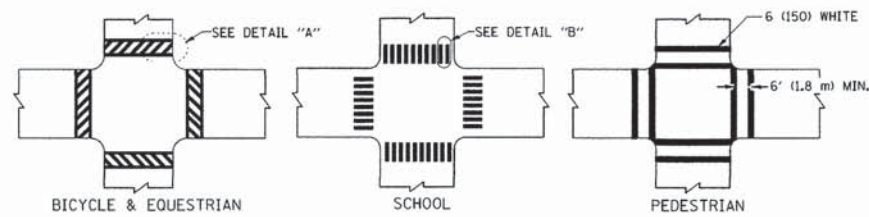


TYPICAL ISLAND MARKING

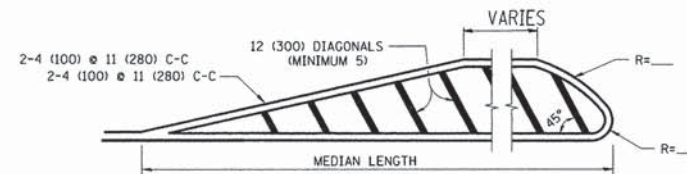


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



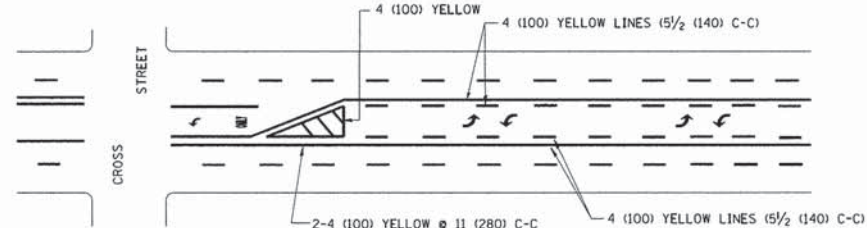
TYPICAL CROSSWALK MARKING



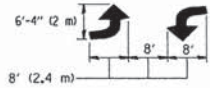
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

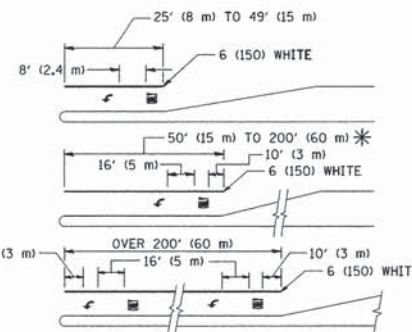


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

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

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 FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
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 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 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° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
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.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
cs:\pw_work\p\dot\drivakosgn\d0108315\td	3.dgn	DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 50.000" / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

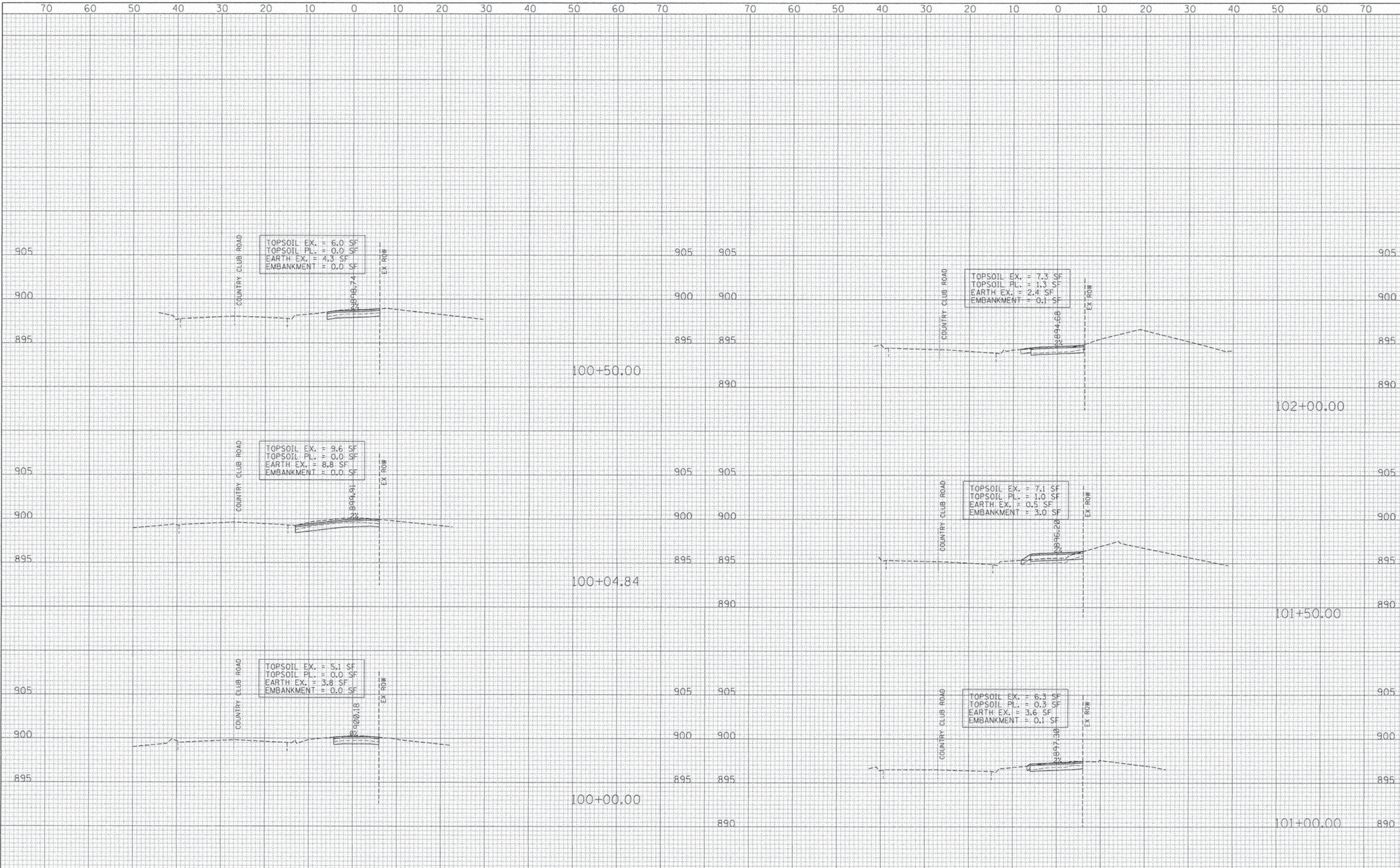
DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS			14-00122-00-BT	MCHENRY	39	25
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS			14-00122-00-BT	MCHENRY	39	25
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = 10421\_shts\_xsec.dgn  
 USER NAME = RJP  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = 12/3/2015

DESIGNED - RJP	REVISED -
DRAWN - RJP	REVISED -
CHECKED - MPM	REVISED -
DATE - 03/30/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

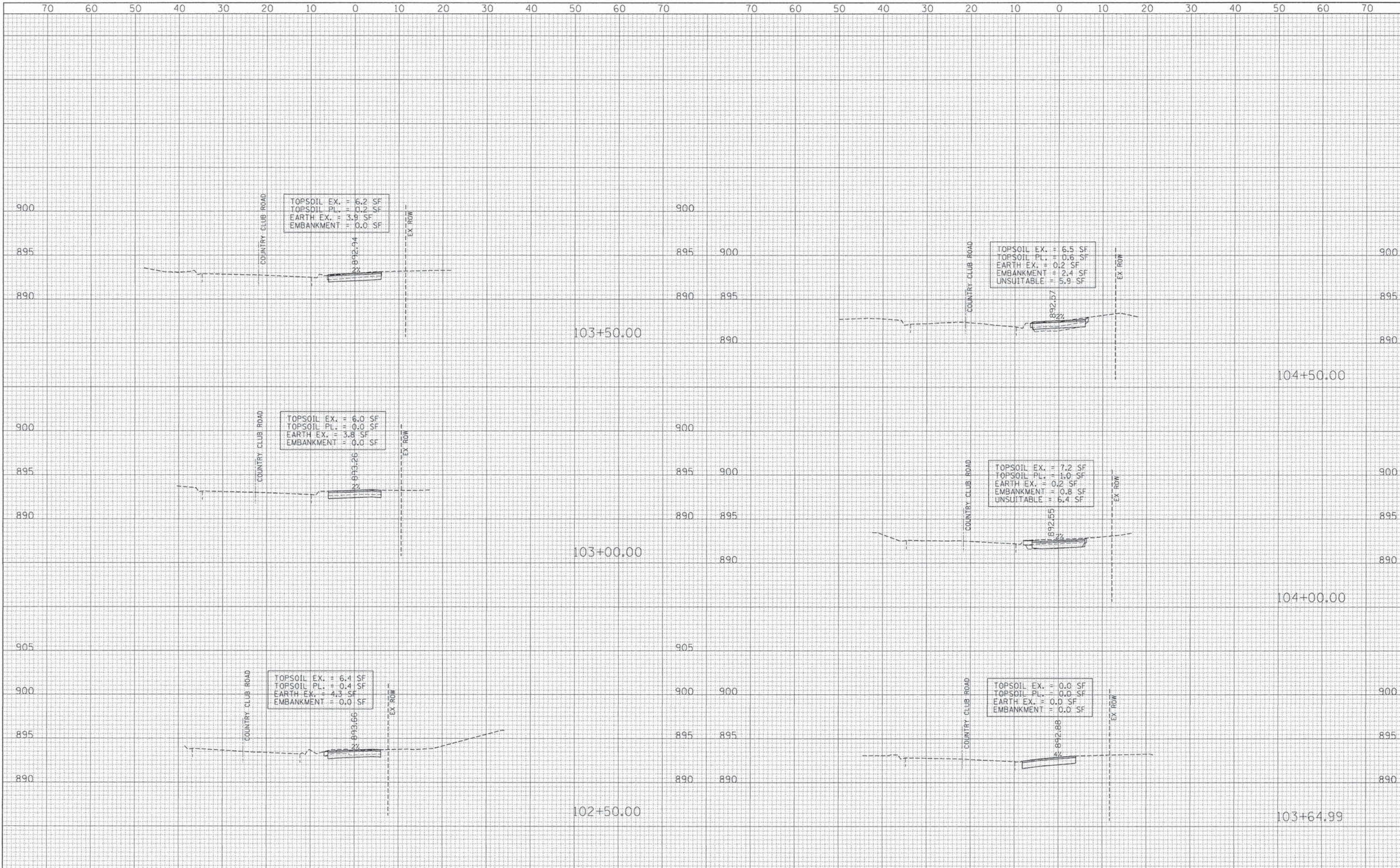
**CROSS SECTIONS**  
 H: 1"=10' V: 1"=5'  
 SHEET 1 OF 14 SHEETS  
 STA. 100+00 TO STA. 102+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	26
CONTRACT NO. 61B66			ILLINOIS FED. AID PROJECT	



DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	



FILE NAME = 10421\_shts\_xsec.dgn  
 #MODELNAME#

USER NAME = RJP  
 DESIGNED - RJP  
 DRAWN - RJP  
 CHECKED - MPM  
 DATE - 03/30/2015

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

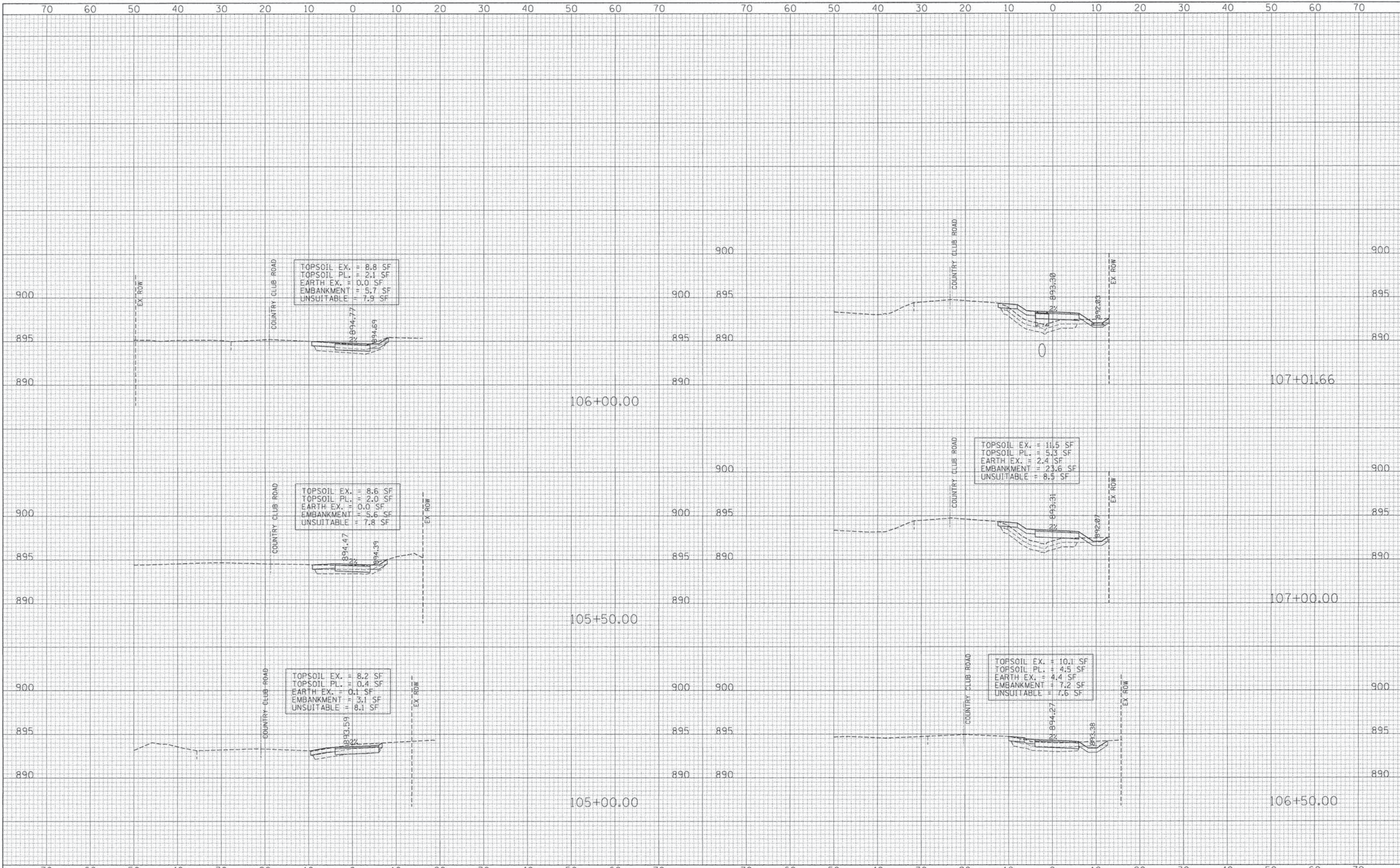
**CROSS SECTIONS**  
 H: 1"=10' V: 1"=5'  
 SHEET 2 OF 14 SHEETS  
 STA. 102+50 TO STA. 104+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	27
			CONTRACT NO. 61B66	
ILLINOIS FED. AID PROJECT				



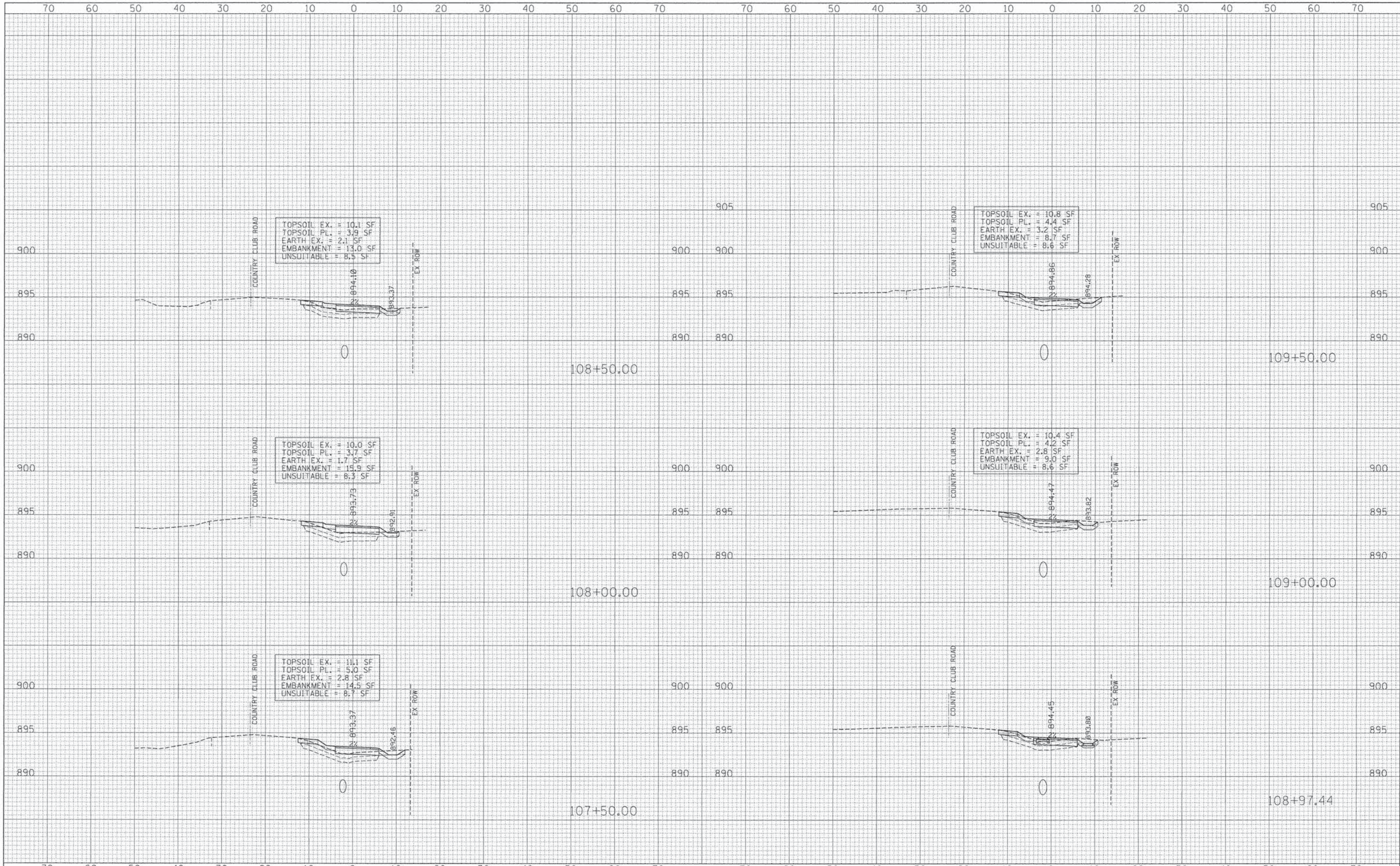
FINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME = 10421_shta_xsec.dgn	USER NAME = RJP	DESIGNED - RJP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MODEL NAME =	PLLOT SCALE = *SCALE*	CHECKED - MPM	REVISED -			14-00122-00-BT	MCHENRY	39	28	
	PLLOT DATE = 12/3/2015	DATE - 03/30/2015	REVISED -			CONTRACT NO. 61B66			ILLINOIS FED. AID PROJECT	
						H: 1"=10' V: 1"=5'		SHEET 3 OF 14 SHEETS		STA. 105+00 TO STA. 107+01.66

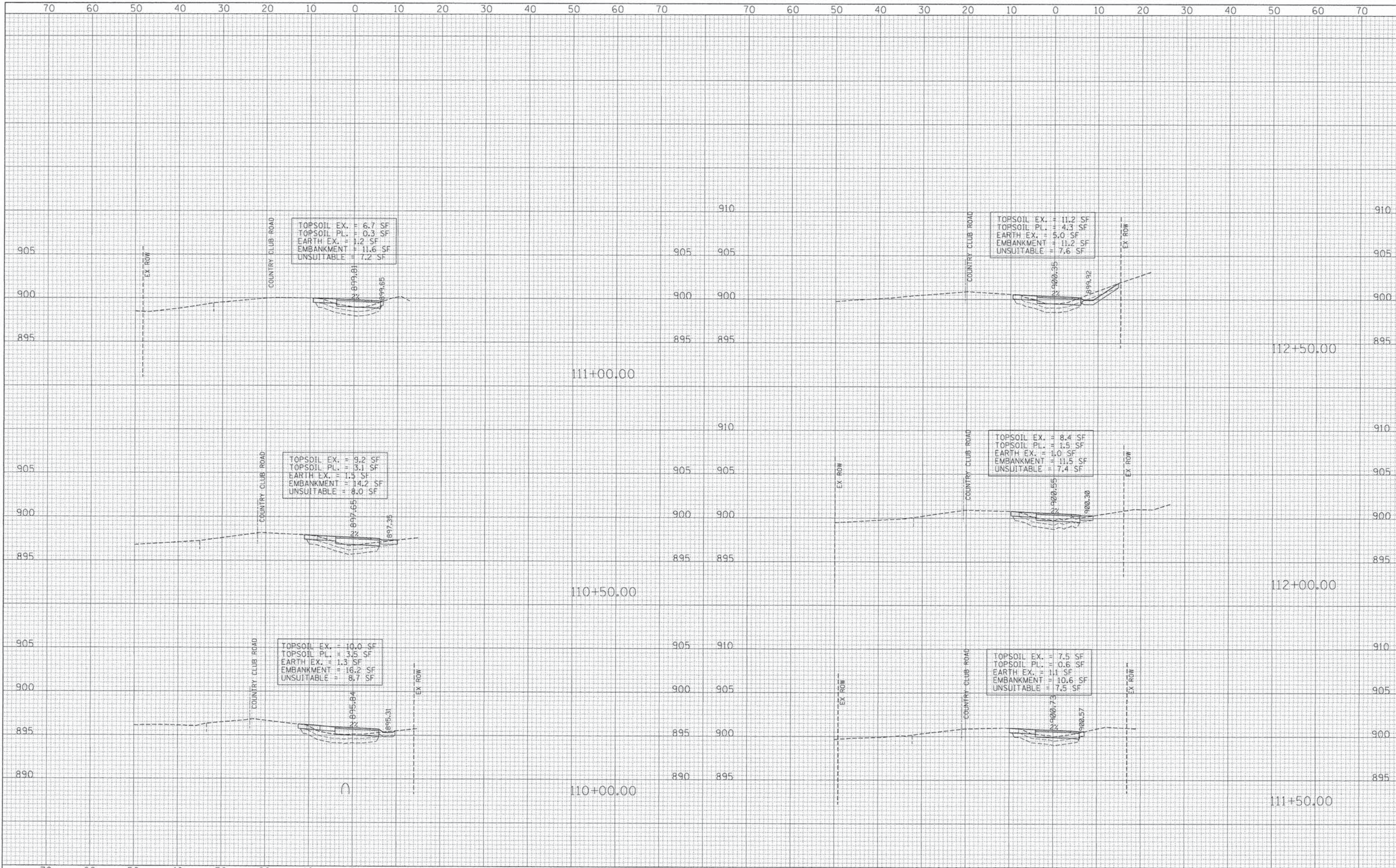




DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
NO.	
NO.	
NO.	
NO.	





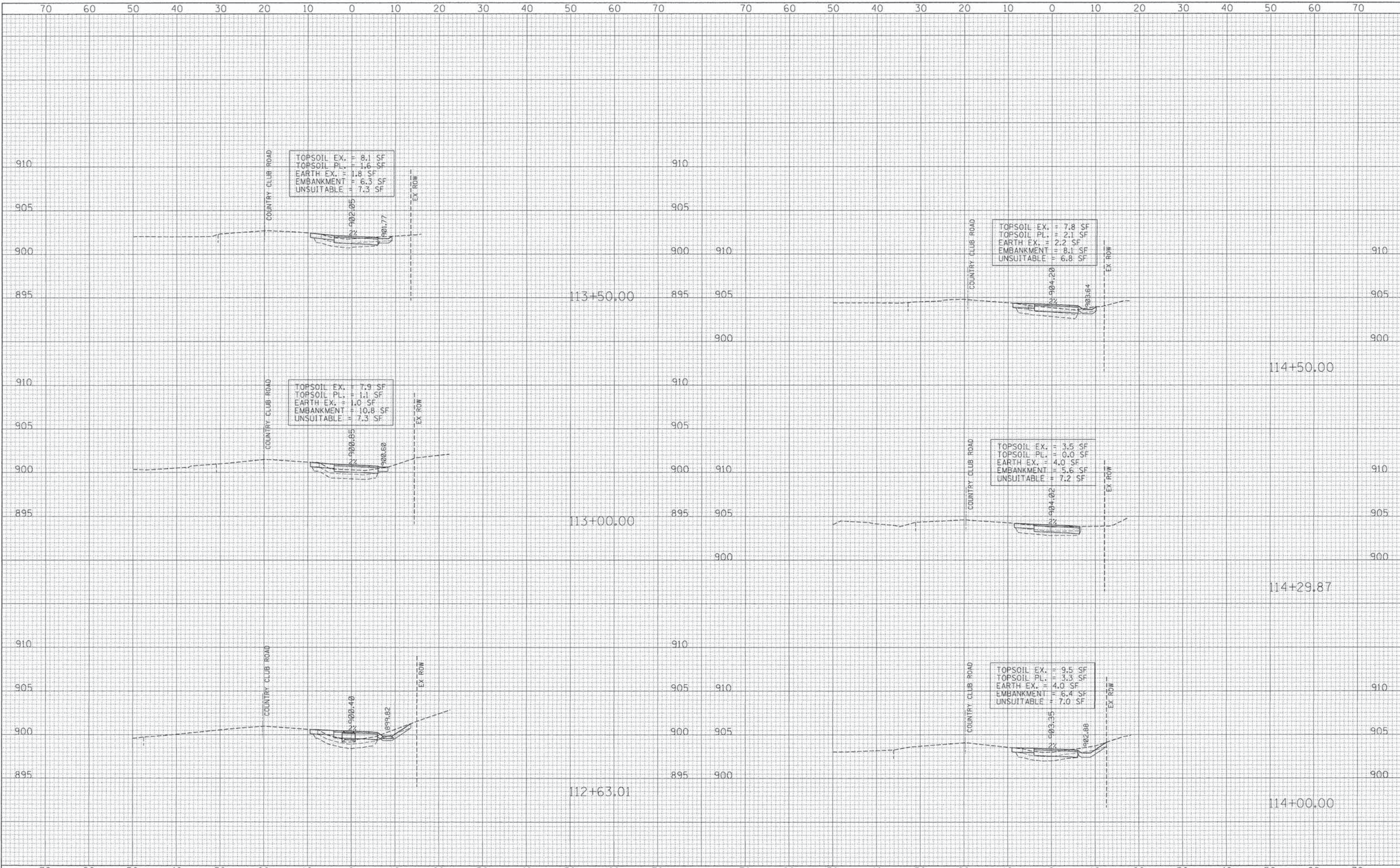
DATE	
BY	
FINAL SURVEY	
NOTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



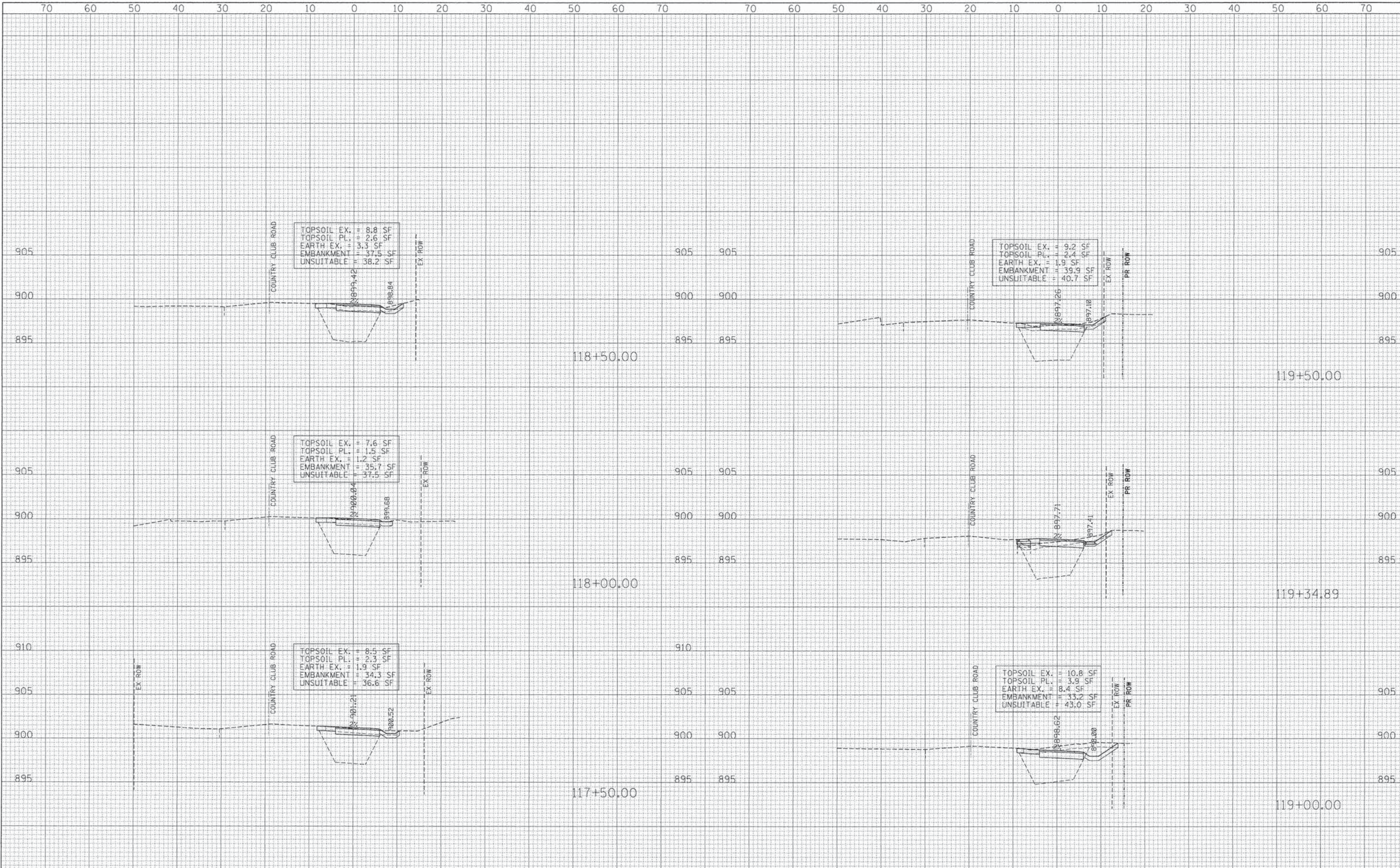






DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = 10421\_shts\_ksec.dgn  
 USER NAME = RJP  
 PLOT SCALE = #SCALE#  
 PLOT DATE = 12/3/2015

DESIGNED - RJP  
 DRAWN - RJP  
 CHECKED - MPM  
 DATE - 03/30/2015

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

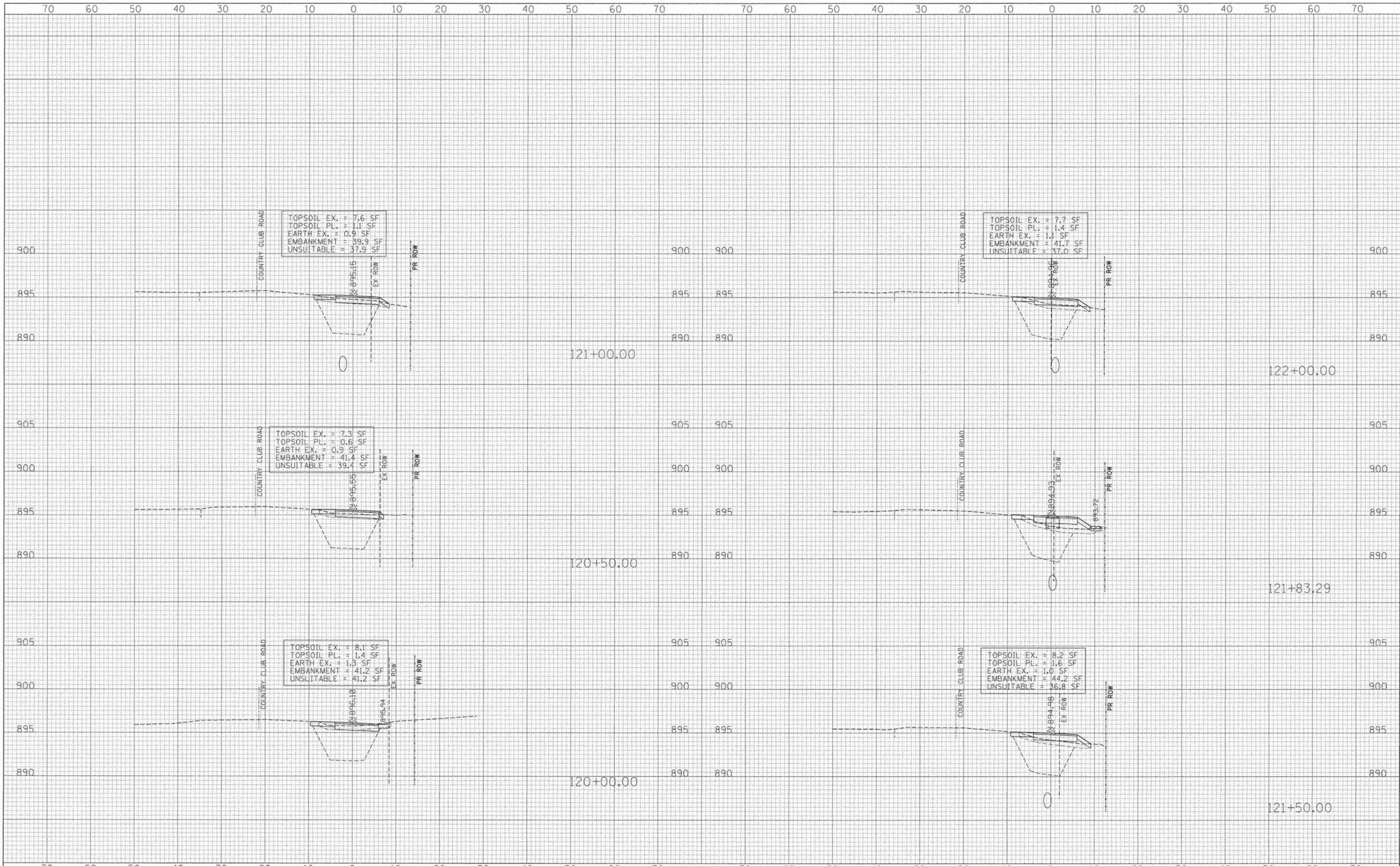
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

H: 1"=10' V: 1"=5' SHEET 8 OF 14 SHEETS STA. 117+50 TO STA. 119+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	33
CONTRACT NO. 61B66			ILLINOIS FED. AID PROJECT	





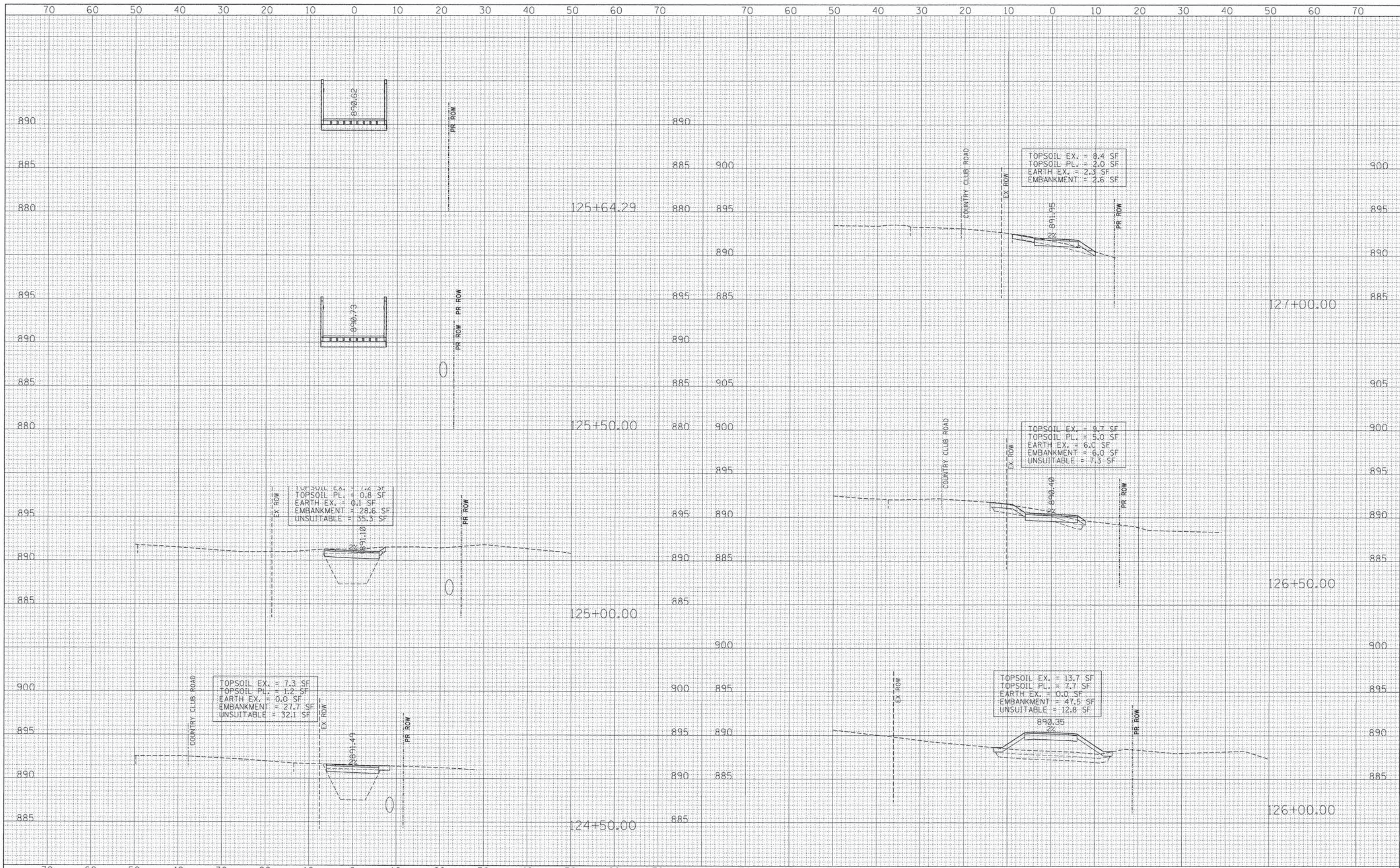
DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	









DATE	
BY	
FINISHED SURVEY	
NOTED SURVEY	
NO. OF SHEETS	
NO. OF SHEETS	
NO. OF SHEETS	
NO. OF SHEETS	
NO. OF SHEETS	

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
NO. OF SHEETS	
NO. OF SHEETS	
NO. OF SHEETS	
NO. OF SHEETS	
NO. OF SHEETS	

FILE NAME = 10421.shts.xsec.dgn  
 USER NAME = RJP  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = 12/3/2015

DESIGNED - RJP	REVISED -
DRAWN - RJP	REVISED -
CHECKED - MPM	REVISED -
DATE - 03/30/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

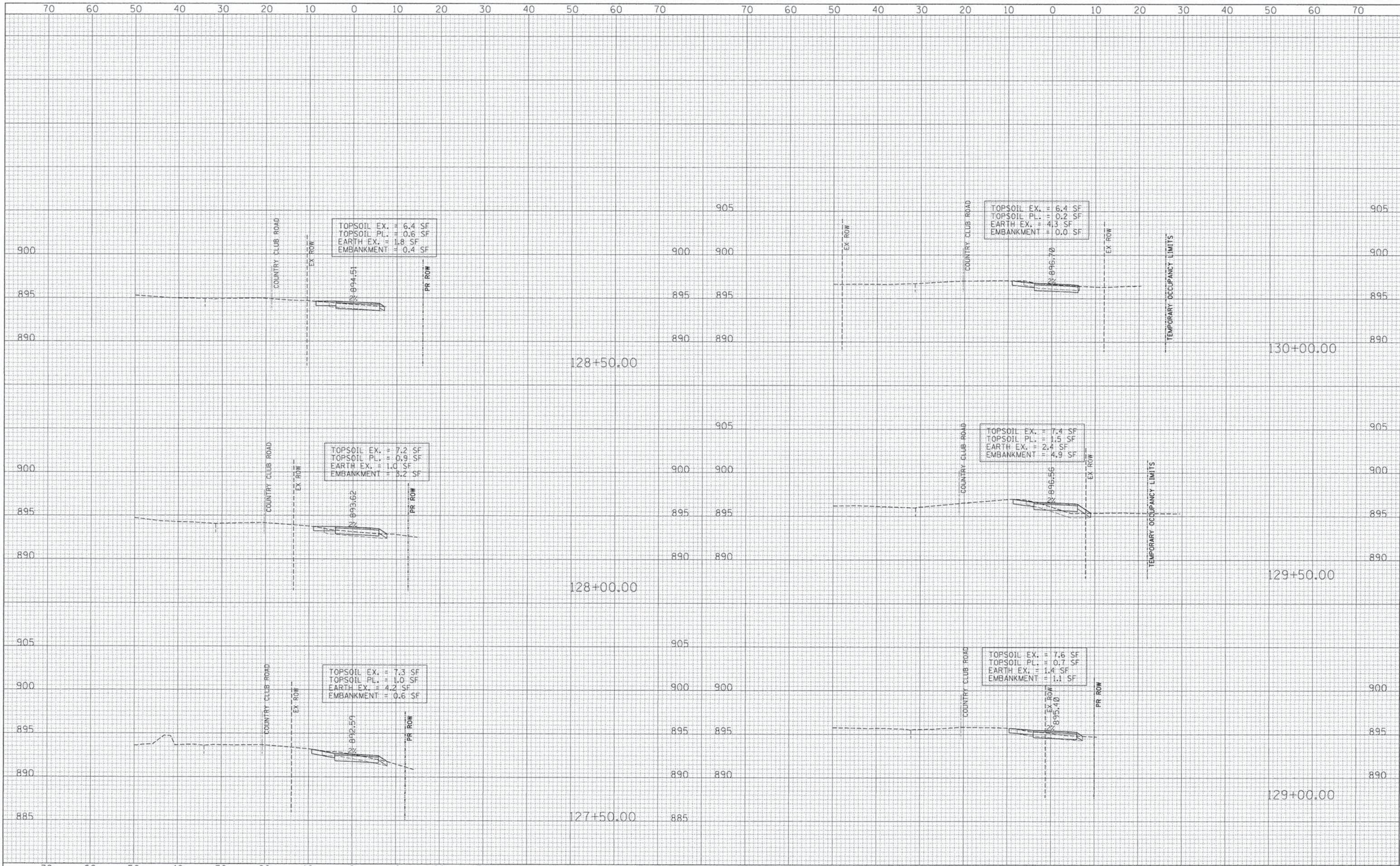
**CROSS SECTIONS**  
 H: 1"=10' V: 1"=5'  
 SHEET 11 OF 14 SHEETS STA. 124+50 TO STA. 127+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	36
			CONTRACT NO. 61B66	
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	
TEMPLATES	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
TEMPLATES	
AREAS CHECKED	



FILE NAME = 10421\_shts\_xsec.dgn  
 USER NAME = RJP  
 PLOT SCALE = #SCALE\*  
 PLOT DATE = 12/3/2015

DESIGNED - RJP  
 DRAWN - RJP  
 CHECKED - MPM  
 DATE - 03/30/2015

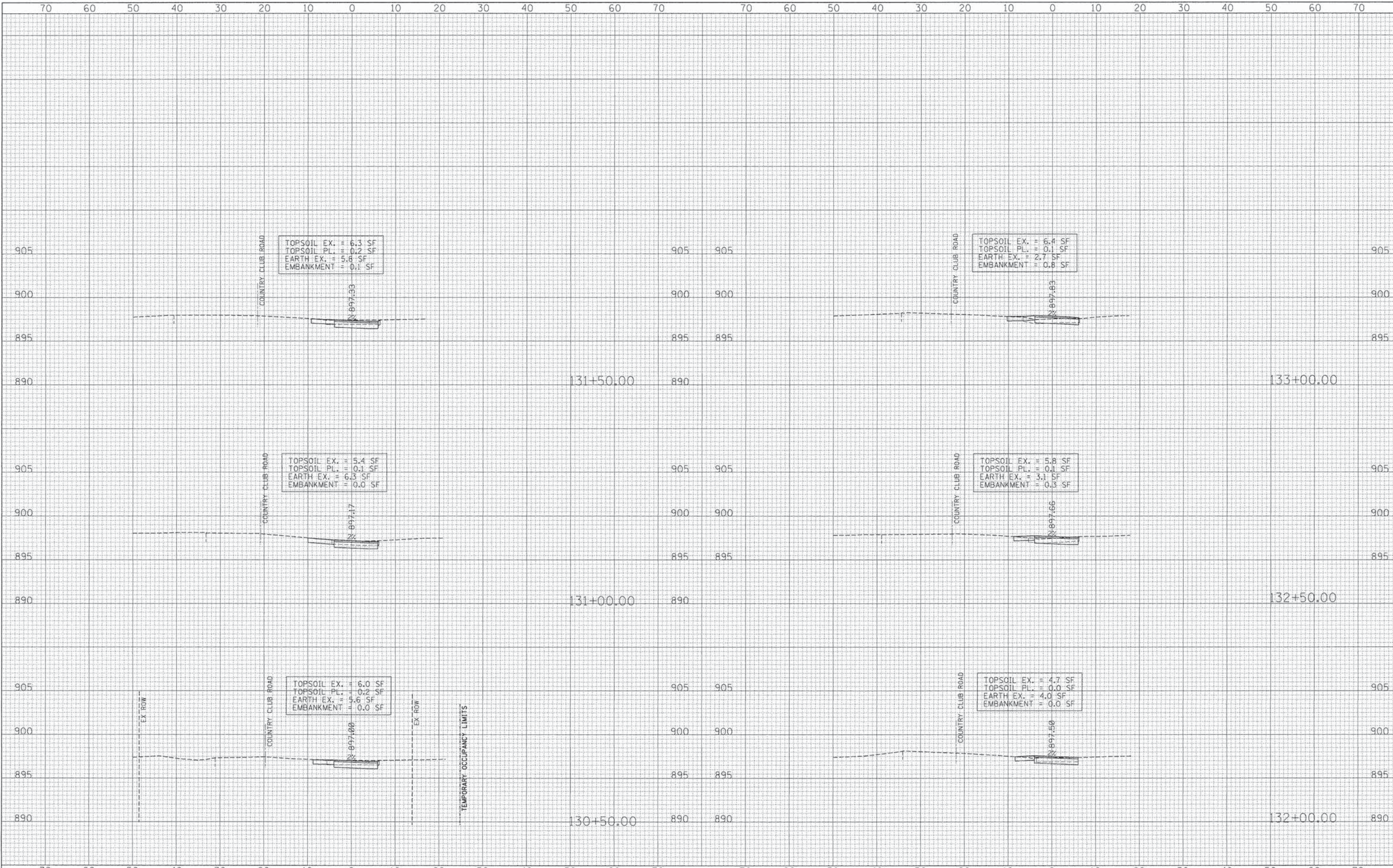
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
 H: 1"=10' V: 1"=5'  
 SHEET 12 OF 14 SHEETS STA. 127+50 TO STA. 130+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	37
CONTRACT NO. 61B66			ILLINOIS FED. AID PROJECT	





DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE NAME = 10421\_shts\_xsec.dgn  
 #MODELNAME\*

USER NAME = RJP  
 DESIGNED - RJP  
 DRAWN - RJP  
 CHECKED - MPM  
 DATE - 03/30/2015

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

H: 1"=10' V: 1"=5'  
 SHEET 13 OF 14 SHEETS  
 STA. 130+50 TO STA. 133+00

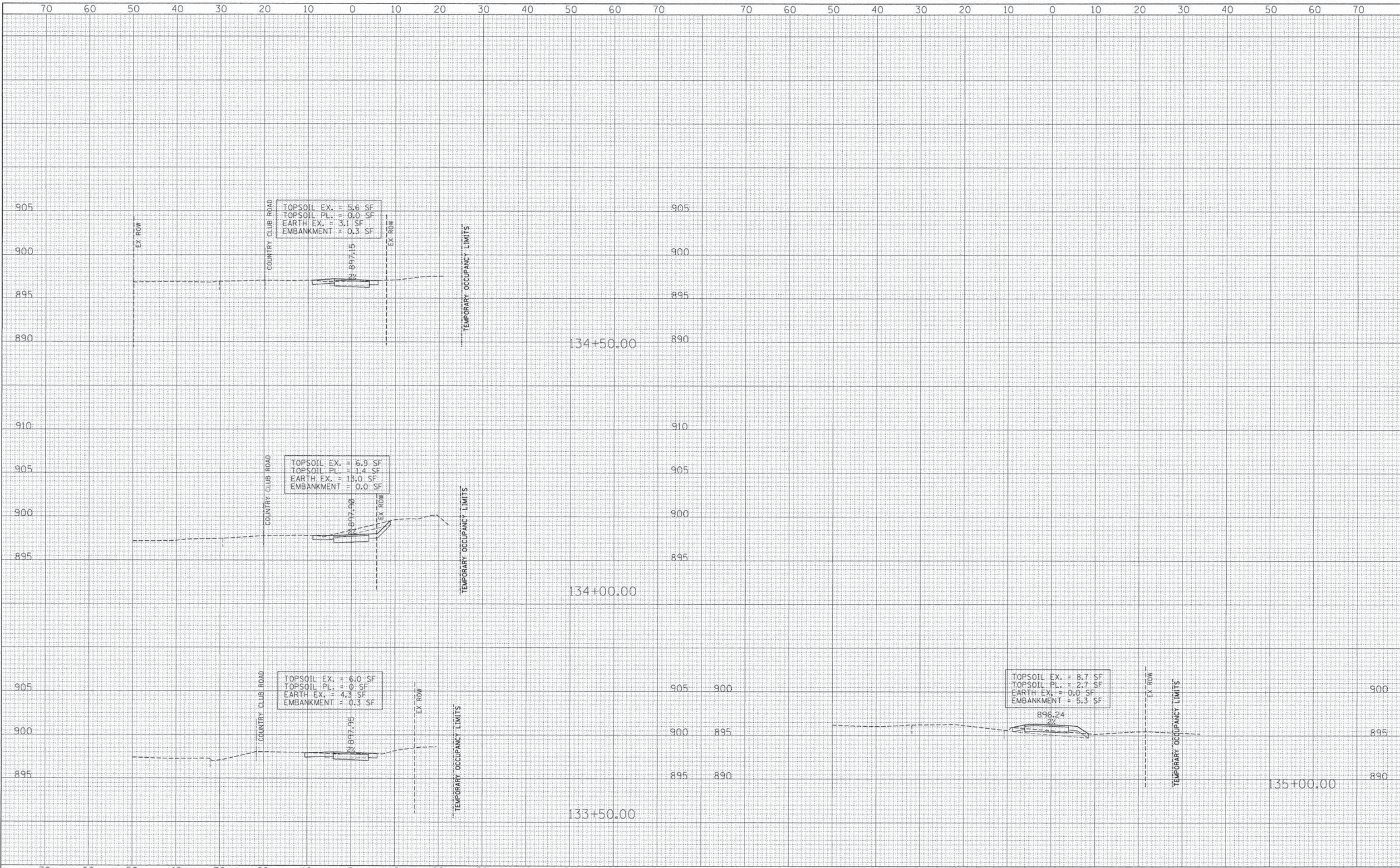
**CROSS SECTIONS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	38
			CONTRACT NO. 61B66	
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
NO. OF	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NO. OF	
NOTE BOOK	
AREAS CHECKED	



FILE NAME = 10421\_shts\_xsec.dgn  
 #MODELNAME#

USER NAME = RJP  
 DESIGNED - RJP  
 DRAWN - RJP  
 CHECKED - MPM  
 DATE - 03/30/2015

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

H: 1"=10' V: 1"=5' SHEET 14 OF 14 SHEETS STA. 133+50 TO STA. 135+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00122-00-BT	MCHENRY	39	39
CONTRACT NO. 61B66			ILLINOIS FED. AID PROJECT	