

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAU 8379 (US RTE 45)
SECTION (12R)N
PROJECT: AC M-8379(001)
RESURFACING AND RIGHT TURN LANE
EFFINGHAM COUNTY

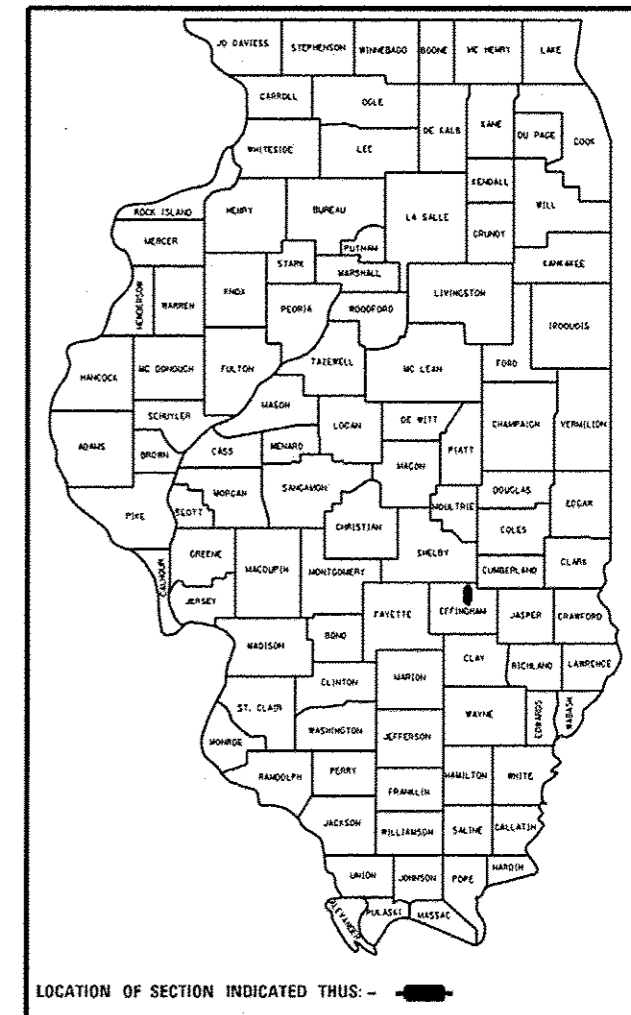
C-97-001-08

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8379	12R)N	Effingham	36	1
ILLINOIS CONTRACT NO. 74282				

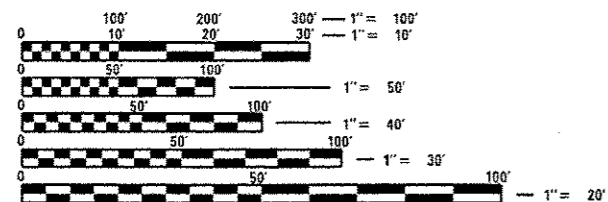
36+1 = 37 TOTAL SHEETS

D-97-001-08



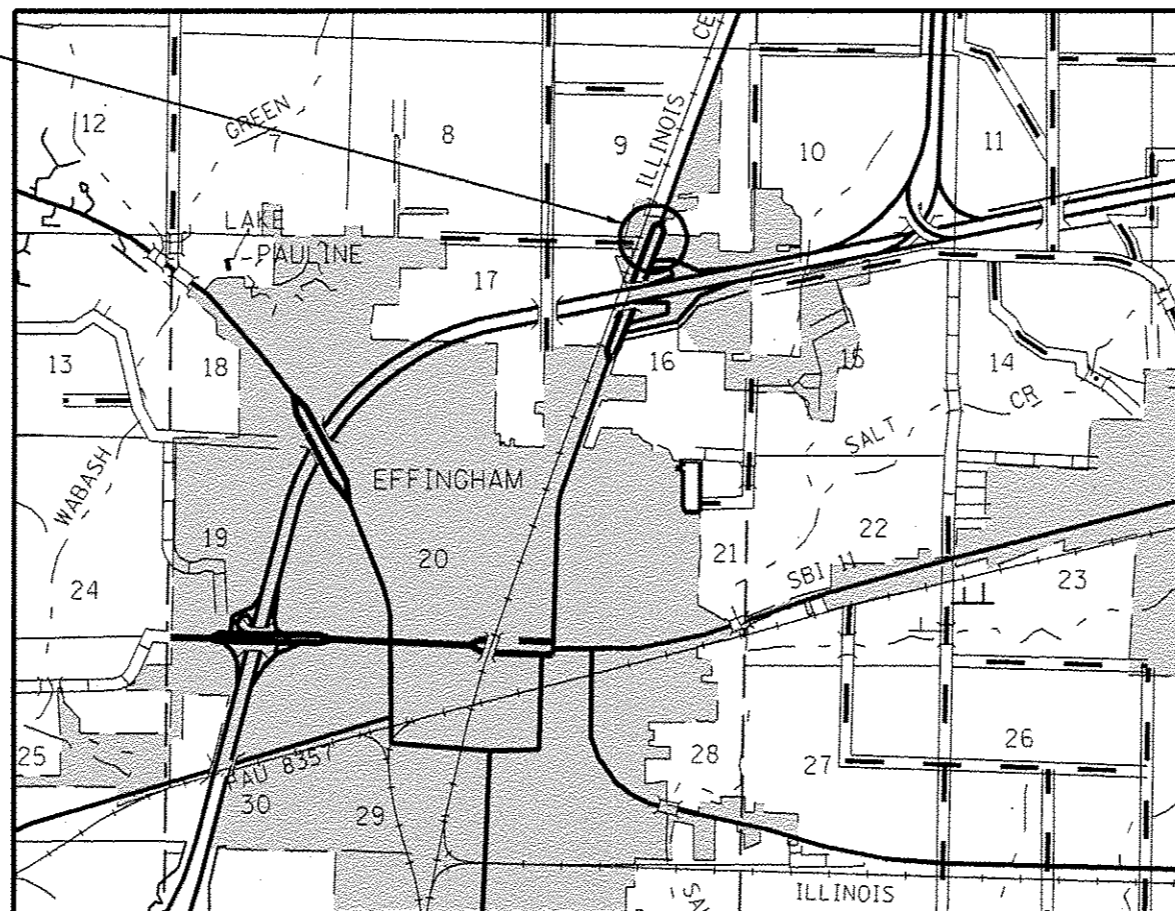
ADT 2009 = 12,000

LOCATION OF PROPOSED IMPROVEMENT



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



GROSS LENGTH = 1,045 FT. = 0.2 MILE
NET LENGTH = 1,045 FT. = 0.2 MILE

PROJECT ENGINEER: MARK DAUGHERTY
PROJECT MANAGER: BRIAN LEWIS

CONTRACT NO. 74282

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 07 20 14
Roy L. Dinkel
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 27 20 14
John D. Baranec, P.E./pc
ENGINEER OF DESIGN AND ENVIRONMENT

June 27 20 14
Omer Osman, P.E./pc
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

REVISD 9-3-14

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET, AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CONSTRUCTION OF PCC PAVEMENT, CURB & GUTTER, STORM SEWER, HMA SURFACE REMOVAL, HMA SURFACE COURSE, THERMOPLASTIC PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

SHORT TERM PAVEMENT MARKING ON THE MILLED SURFACE SHALL BE PAINT. ALL OTHER SHORT TERM PAVEMENT MARKINGS SHALL BE TAPE.

COST OF REMOVAL OF ALL FOUNDATIONS, POSTS, PARKING BLOCKS, VALVE VAULTS, CASTINGS, ETC. WITHIN THE LIMITS OF THE AREAS OF DRIVEWAY PAVEMENT REMOVAL SHALL BE INCLUDED IN THE BID PRICE FOR DRIVEWAY PAVEMENT REMOVAL.

THE WORK IN THIS CONTRACT ABUTS WORK ON ANOTHER CONTRACT CURRENTLY IN PROGRESS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE CONTRACTOR PERFORMING THE WORK ON THE ABUTTING PROJECT. SEE ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS.

STORM SEWER TEES WILL NOT BE PAID FOR SEPARATELY BUT WILL BE MEASURED IN PLACE SAME AS REGULAR STORM SEWER AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE SIDEWALK SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN IN ORDER TO ALLOW FOR THE CONSTRUCTION OF A FUTURE MULTI-USE PATH. LIMITS OF ADDITIONAL SIDEWALK WIDTH FOR FUTURE CONSTRUCTION ARE ALSO SHOWN ON THE PLANS USING DASHED LINES.

CURB REMOVAL IS FOR THE PURPOSE OF ENLARGING THE OPENING FOR THE PROPOSED SIDEWALK RAMP IN THE NORTHEAST QUADRANT OF THE RICKELMAN AND US 45 INTERSECTION TO THE WIDTH OF FIVE FEET. THIS WORK SHALL BE ACCOMPLISHED BY SAWING, CHIPPING AND GRINDING OF THE EXISTING CURB AND SHALL BE PERFORMED SO THAT THE RESULTING SURFACE OF THE REMAINING CONCRETE IS REASONABLY SMOOTH.

ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2 (SPECIAL) IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF UTILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

RIGHT-OF-WAY MARKERS SHALL BE ERECTED WITH THE BACK FACE OF THE MARKER ON THE RIGHT-OF-WAY LINE UNLESS THE NEW RIGHT-OF-WAY LINE HAS BEEN SURVEYED AND PINNED, IN WHICH INSTANCE THE RIGHT-OF-WAY MARKER WILL BE ERECTED 12 INCHES INSIDE THE NEW RIGHT-OF-WAY LINE.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICES FOR OTHER ITEMS IN THE CONTRACT.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE BITUMINOUS SURFACE COURSE.

COST OF REMOVAL OF TEMPORARY RAMP SHALL BE INCLUDED IN THE UNIT PRICE FOR TEMPORARY RAMP.

RUBBER TIERED ROLLERS SHALL NOT BE USED ON THIS PROJECT.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE
POLYMERIZED BIT CONC SURFACE COURSE MIX "D" N90	SBS PG 76-22	4.0% @ N=90	1L - 9.5	MIXTURE D

INDEX OF SHEETS

SHEET NO	TITLE
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS
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7-8	TYPICAL SECTIONS
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10	QUANTITY SCHEDULES
11-12	PLAN AND PROFILE SHEETS
13	STORM SEWER DETAILS
14	RIGHT OF WAY PLANS
15-19	PAVEMENT MARKING DETAILS
* 20-25	TRAFFIC SIGNAL SHEETS
26	MEDIAN DETAILS
27-36	CROSS SECTIONS

*** ADD SHEET 22A**

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

00001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420101-04	24' JOINTED PCC PAVEMENT
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALK
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542606-07	REINFORCED CONCRETE PIPE TEE
602301-04	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
604006-04	FRAME AND GRATE, TYPE 3
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-02	OUTLET FOR CONCRETE CURB AND GUTTER, TYPE B-8.24
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701502-06	URBAN LANE CLOSURE, 2L 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-03	TRAFFIC CONTROL DEVICES
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782001	PRISMATIC CURB REFLECTORS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
876001-03	PEDESTRIAN PUSH BUTTON POST
878001-09	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

**720001-01 SIGN PANEL MOUNTING DETAILS
720006-04 SIGN PANEL ERECTION DETAILS
728001-01 TELESCOPING STEEL SIGN SUPPORT**

REVISD 9-3-14

FILE NAME =	USER NAME = staffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & INDEX OF SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\p\work\p\idoc\staffennk\08157883\07	4282-wht-gen-mta.dgn	DRAWN -	REVISED -			8379	112RN	Effingham	36	2	
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 74282					
	PLOT DATE = 5/8/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	

URBAN

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 80% FEDERAL 20% STATE	0021 80% FEDERAL 20% STATE	0021 100% CITY
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6. 24	FOOT	637	637		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	1	1		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	50	50		
67100100	MOBILIZATION	L SUM	1	1		
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1		
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2629	2629		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	292	292		
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	34	34		
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	249.6	249.6		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	16	16		
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2920	2920		
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	926	926		
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	1073	1073		
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	77	77		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 80% FEDERAL 20% STATE	0021 80% FEDERAL 20% STATE	0021 100% CITY
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	135	135		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	47	47		
* 78200300	PRISMATIC CURB REFLECTOR	EACH	58	58		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	945	945		
* 81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	22		22	
* 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	425		425	
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	149		149	
* 81400100	HANDHOLE	EACH	1		1	
* 81500100	GULFBOX JUNCTION	EACH	2		2	
* 85700210	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	424		424	
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1		1	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	679		679	
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2127		2127	
* 87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	1		1	

* SPECIALTY ITEMS

* SPECIALTY ITEMS

REVISD 9-3-14

FILE NAME =	USER NAME = staffanek	DESIGNED -	REVISED -
cr:\p\work\ps\dpc\staffanek\02157803\074282-shr-eqs.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 1/8" = 1' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/8/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8379	12RIN	Effingham	36	4
CONTRACT NO. 74282			ILLINOIS FED. AID PROJECT	

URBAN

URBAN

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				0005 80% FEDERAL 20% STATE	0021 80% FEDERAL 20% STATE	0021 100% CITY
* 87602000	PEDESTRIAN PUSH-BUTTON POST	EACH	2		2	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3		3	
* 87900200	DRILL EXISTING HANDHOLE	EACH	4		4	
⚠ * 88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1	
* 88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1		1	
⚠ * 88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1		1	
* 88040290	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1	
⚠ * 88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2		2	
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	3		3	
⚠ * 88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2		2	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	812		812	
* 88700200	LIGHT DETECTOR	EACH	4			4
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	2		2	
* 89100400	ILLUMINATED SIGN, LED	EACH	4		4	
⚠ * 89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1		1	
⚠ * 89502220	MODIFY EXISTING CONCRETE FOUNDATION	EACH	1		1	

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				0005 80% FEDERAL 20% STATE	0021 80% FEDERAL 20% STATE	0021 100% CITY
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	852		852	
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
* 89502380	REMOVE EXISTING HANDHOLE	EACH	2		2	
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2		2	
* X0323071	SPARE FULL ACTUATED CONTROLLER, SPECIAL	EACH	1		1	
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2	0.2		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2462	2462		
X6061300	CONCRETE MEDIAN, TYPE SB-6.06 (DOWELLED)	SQ FT	2776	2776		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
* X7830060	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	249.6	249.6		
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	2920	2920		
* X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	926	926		
* X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	1073	1073		⚠

* SPECIALTY ITEMS

⚠ REVISED 9-3-15

FILE NAME =	USER NAME = gstaffanck	DESIGNED -	REVISED -
o:\p\work\pvsdot\staffanck\02157883107	4282-ahtr-eod.dgn	DRAWN -	REVISED -
Default	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -
	PLOT DATE = 5/8/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8379	(12RN	Effingham	36	5
			CONTRACT NO. 74282	
ILLINOIS FED. AID PROJECT				

URBAN

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				0005 80% FEDERAL 20% STATE	0021 80% FEDERAL 20% STATE	0021 100% CITY
* X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	77	77		
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	135	135	▲	
▲ * X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1	1		
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1123			1123
Z0049799	PROTECTING OR RESETTING SURVEY MARKERS	EACH	6	6		
▲ Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		

* SPECIALTY ITEM

▲ REVISED 9-3-14

PAVEMENT MARKING SCHEDULE

STATION	TO	STATION	LENGTH FEET																	
				SHORT TERM PAVEMENT MARKING FT.	WORK ZONE PAVEMENT MARKING REMOVAL SQ. FT.	PAVEMENT MARKING REMOVAL SQ. FT.	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS SQ. FT.	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS SQ. FT.	GROOVING FOR RECESSED PAVEMENT MARKING 5" FT.	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" FT.	GROOVING FOR RECESSED PAVEMENT MARKING 7" FT.	MODIFIED URETHANE PAVEMENT MARKING - LINE 6" FT.	GROOVING FOR RECESSED PAVEMENT MARKING 9" FT.	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" FT.	GROOVING FOR RECESSED PAVEMENT MARKING 13" FT.	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" FT.	GROOVING FOR RECESSED PAVEMENT MARKING 25" FT.	MODIFIED URETHANE PAVEMENT MARKING - LINE 24" FT.	RAISED REFLECTIVE PAVEMENT MARKER EACH	PRISMATIC CURB REFLECTORS EACH
32+05	TO	33+61	156	109	12				780	780			32	32	44	44			10	
33+61	TO	35+25	164	796	88		46.8	46.8	491	491			324	324	33	33	33	33	20	
35+25	TO	36+71	146																	
36+71	TO	38+96	225	939	104		109.2	109.2	618	618	448	448					36	36	14	24
38+96	TO	39+71	75	74	8		31.2	31.2	225	225	75	75							3	6
39+71	TO	42+50	279	711	80		62.4	62.4	806	806	223	223								28
WEST LEG OF RICKELMAN						725							717	717			25	25		
EAST LEG OF RICKELMAN						220				180	180						41	41		
PROJECT TOTALS			1,045	2,629	292	945	249.6	249.6	2,920	2,920	926	926	1,073	1,073	77	77	135	135	47	58

626' YELLOW
2003' WHITE

WHITE

834' WHITE
2086' YELLOW

WHITE

33' WHITE
44' YELLOW

WHITE

27 ONE-WAY CRYSTAL
10 ONE-WAY AMBER
10 TWO-WAY AMBER

AMBER

PAVING SCHEDULE

STATION	TO	STATION	LENGTH FEET	WIDTH FEET	AREA SQ YD	BITUMINOUS MATERIALS (PRIME COAT) POUND	HOT MIX ASPHALT SURFACE REMOVAL 1 1/2" SQ YD	POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N90 TON	TEMPORARY RAMP SQ YD
32+05	TO	42+50	1,045	VAR.	5,472	2,462	5,472	460	151

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION CU. YD.	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE CU. YD.	EMBANKMENT CU. YD.	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) CU. YD.	TOPSOIL FURNISH AND PLACE 4" SQ. YD.
LT. STA. 36+15 TO 42+10	236	175	356	-181	985

FURNISHING AND ERECTING RIGHT OF WAY MARKERS
55.00' LT. STA. 41+49.20 1 EACH

PCC PAVEMENT 10"
LT. STA. 36+13 TO 40+69 564 S. Y.

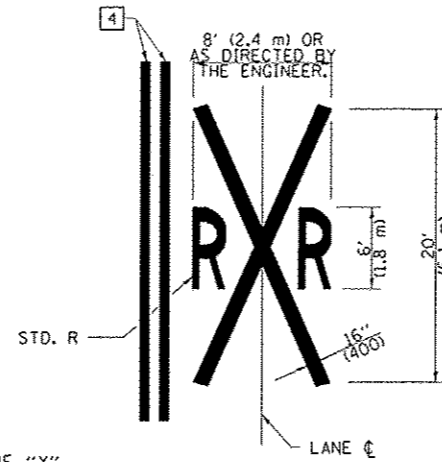
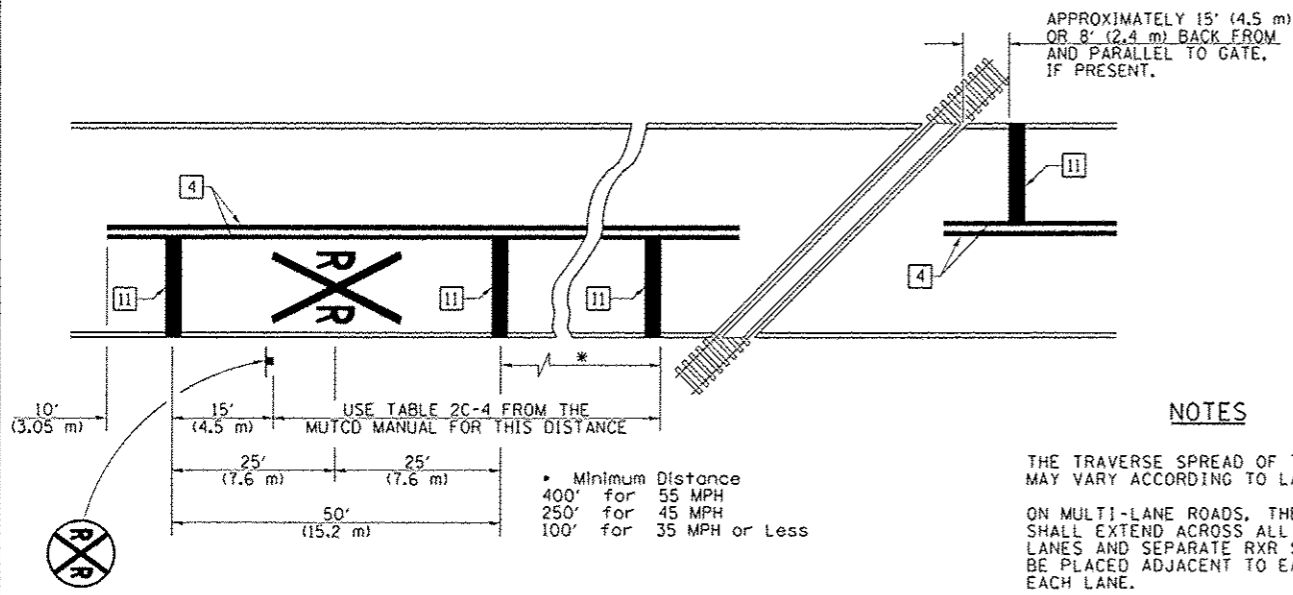
PROTECTING OR RESETTING SURVEY MARKERS
60.00' LT. STA. 36+47.56 1 EACH
55.00' LT. STA. 36+75.00 1 EACH
55.00' LT. STA. 37+70.68 1 EACH
55.00' LT. STA. 39+75.00 1 EACH
45.00' LT. STA. 40+75.00 1 EACH
45.00' LT. STA. 41+00.00 1 EACH

COMB. CONC. CURB & GUTTER, TYPE B6.24
LT. STA. 36+15 TO 42+07 637 FEET

CONC. MEDIAN, TYPE SB-6.06 (DOWELLED)
STA. 36+71.5 TO 42+30.1 2776 S. F.

9-3-14 REVISED SHEET

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

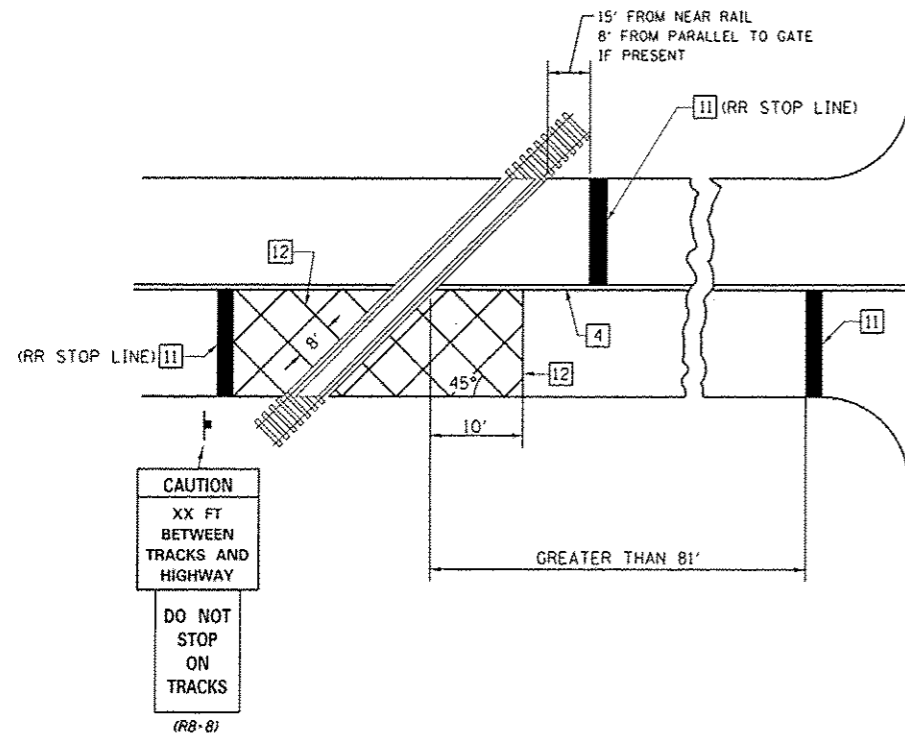
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

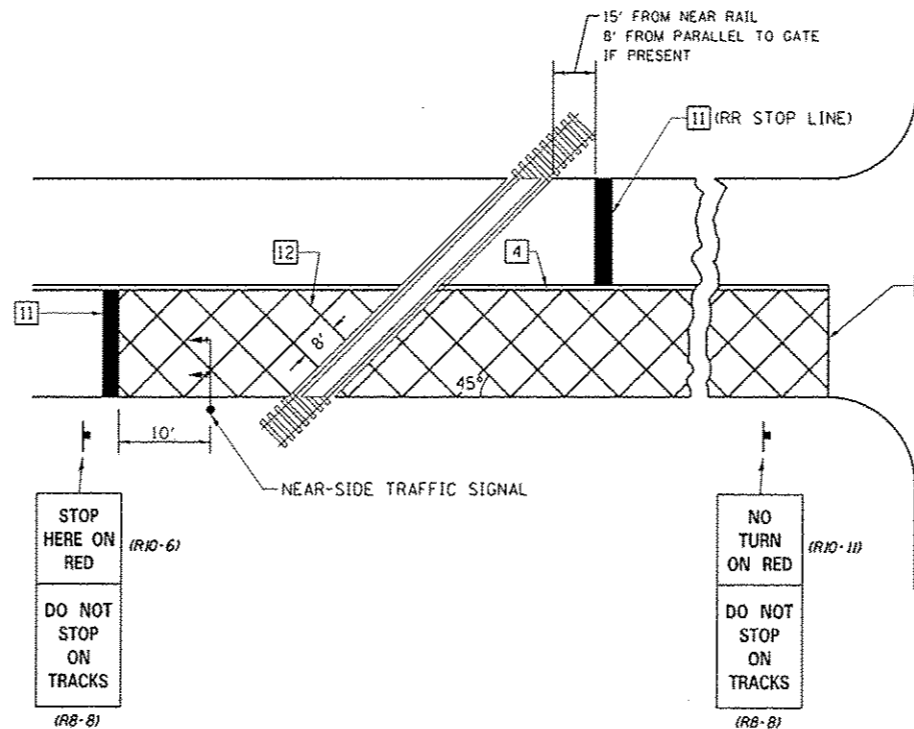
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 12" (300) SOLID WHITE
 - 6 RESERVED
 - 7 6" (150) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) PARKING WHITE
-

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

9-3-14 REVISED SHEET

FILE NAME :	USER NAME : teesleyck	DESIGNED -	REVISED -
c:\pwwork\pvidot\teesleyck\d0157883-07	4282-sh1-details.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
	PLOT DATE = 8/28/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

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

DISTRICT 7 DETAIL NO. 7800001					
F.A.U. RTE. 8379	SECTION 02RN	COUNTY Effingham	TOTAL SHEETS 36	SHEET NO. 18	
CONTRACT NO. 74282					
ILLINOIS FED. AID PROJECT					

TRAFFIC SIGNAL GENERAL NOTES

THE TRAFFIC SIGNAL PORTION OF THIS PROJECT CONSISTS OF MODIFICATION OF TRAFFIC SIGNALS AT THE INTERSECTION OF US 45 & RICKELMAN AVENUE, EFFINGHAM COUNTY.

THE EXISTING UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CALL J.U.L.J.E. AT 1-800-892-0123. THE TRAFFIC SIGNAL UTILITY LINES WILL BE LOCATED BY THE CONTRACTOR.

THE TRAFFIC SIGNAL ENGINEER AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED AT 217-342-8291 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNIT.

THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNALS ARE TURNED ON. THE REPRESENTATIVE SHALL MAKE CERTAIN THAT ALL EQUIPMENT OPERATES TO THE SATISFACTION OF THE ENGINEER.

A 2 FOOT MINIMUM, 6 FOOT DESIRABLE, HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF CURB TO THE EDGE OF HANDHOLES, JUNCTION BOXES AND SIGNAL POST FOUNDATIONS.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED WITH THE UNDERGROUND CONDUIT PAY ITEM.

THE NUMBER OF CONDUCTORS FOR ELECTRIC CABLES AS SHOWN ON THE PLANS SHALL BE THE MINIMUM NUMBER OF CONDUCTORS FURNISHED FOR EACH LOCATION. THE CONTRACTOR MAY SUBSTITUTE AN ELECTRIC CABLE WITH MORE CONDUCTORS THAN SPECIFIED BUT NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE EXTRA CONDUCTORS.

ALL NEW TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL NOT BE ALLOWED.

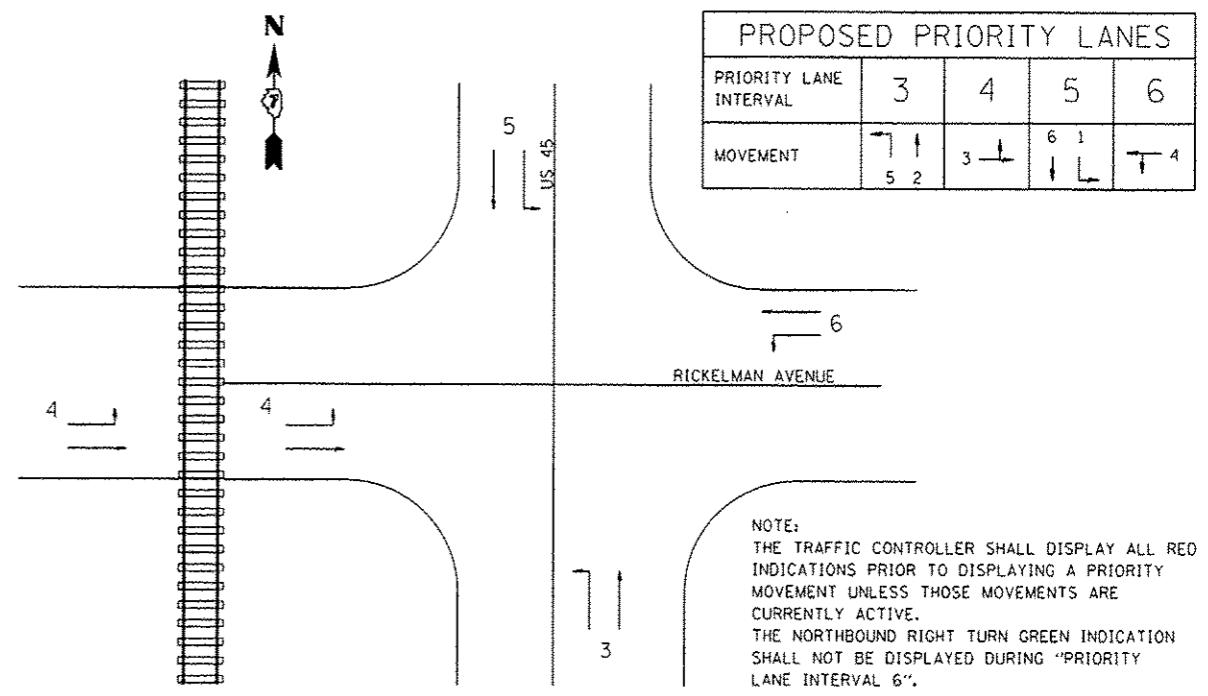
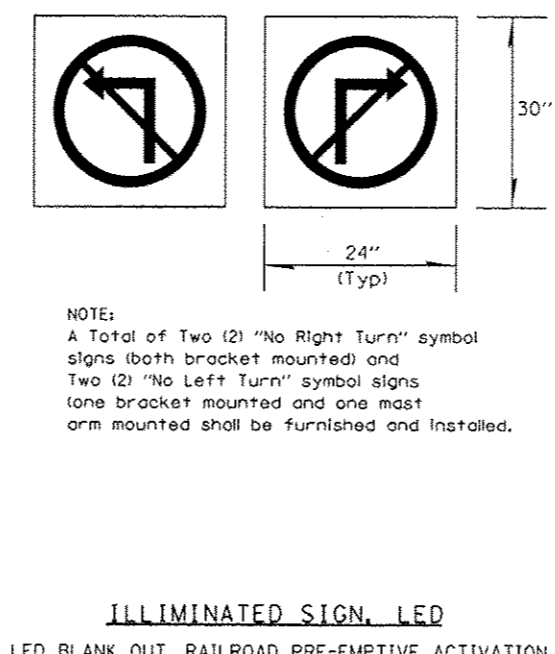
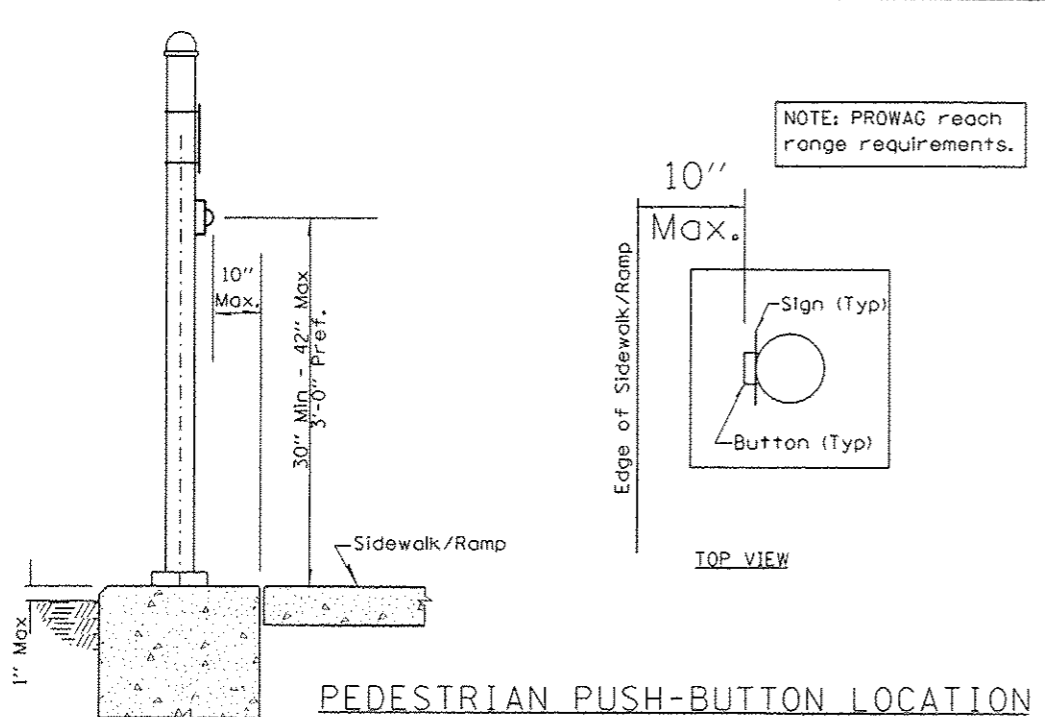
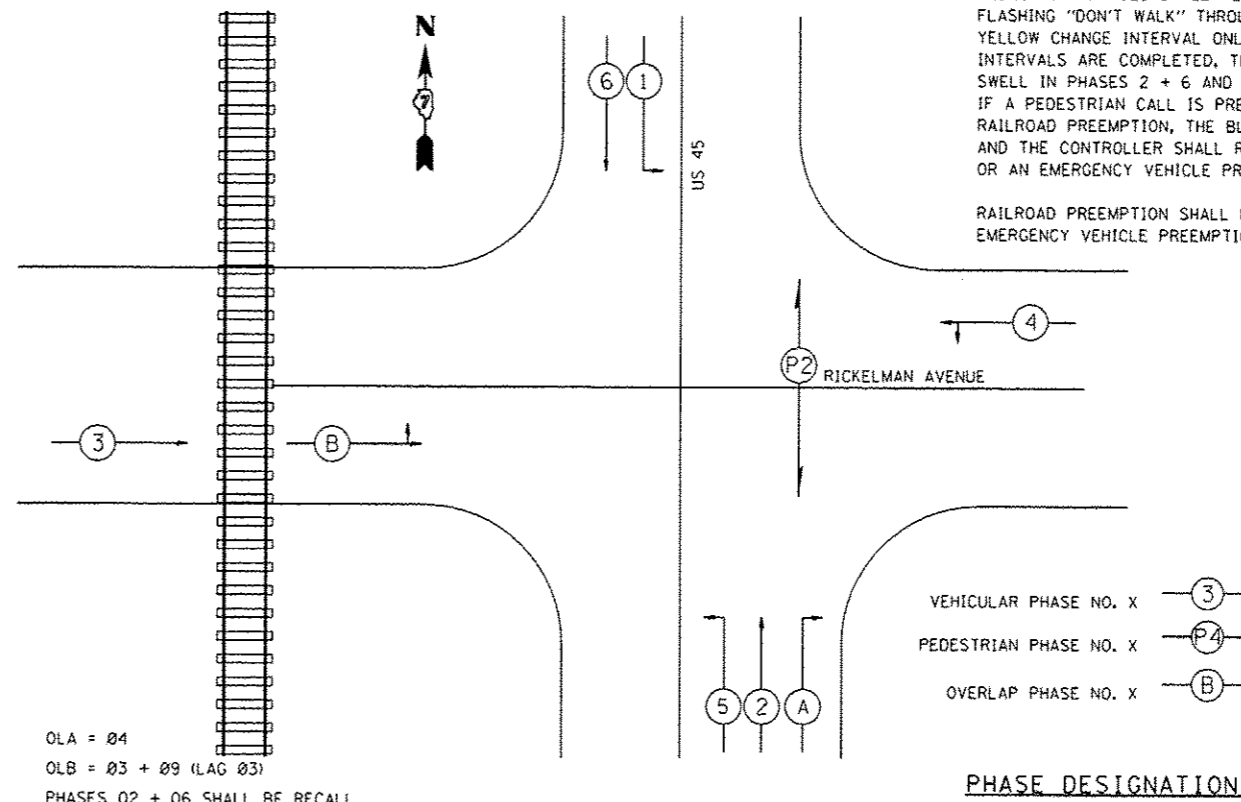
ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.

ALL MAST ARM MOUNTED SIGNAL HEADS SHALL BE MOUNTED AS TO ALIGN WITH THE CENTER OF THE LANE.

IN ADDITION TO THE STOP SIGNS REQUIRED BY ARTICLE 801.11(b)(3), THE CONTRACTOR SHALL PROVIDE TWO FLAGGERS TO CONTROL TRAFFIC AT THE INTERSECTION DURING THE TIME(S) WHEN THE SIGNALS ARE NOT OPERATING. COST SHALL BE INCLUDED IN THE TRAFFIC SIGNAL ITEMS.

NOTE:
UPON ACTIVATION OF RAILROAD PREEMPTION, THE BLANK-OUT SIGNS SHALL ILLUMINATE AND THE PHASES IN SERVICE SHALL TERMINATE TO PHASE 9 (OVERLAP B) FOR TRACK CLEARANCE. ANY ACTIVE PEDESTRIAN PHASES SHALL TERMINATE AND BE LIMITED TO FLASHING "DON'T WALK" THROUGH THE ASSOCIATED VEHICULAR YELLOW CHANGE INTERVAL ONLY. WHEN THE TRACK CLEARANCE INTERVALS ARE COMPLETED, THE TRAFFIC CONTROLLER SHALL SWELL IN PHASES 2 + 6 AND PHASE 2 PEDESTRIAN INDICATIONS. IF A PEDESTRIAN CALL IS PRESENT. UPON COMPLETION OF THE RAILROAD PREEMPTION, THE BLANK-OUT SIGNS SHALL GO DARK AND THE CONTROLLER SHALL RESUME NORMAL OPERATIONS OR AN EMERGENCY VEHICLE PREEMPTION INTERVAL, IF ACTIVE.

RAILROAD PREEMPTION SHALL HAVE PRIORITY OVER EMERGENCY VEHICLE PREEMPTION.

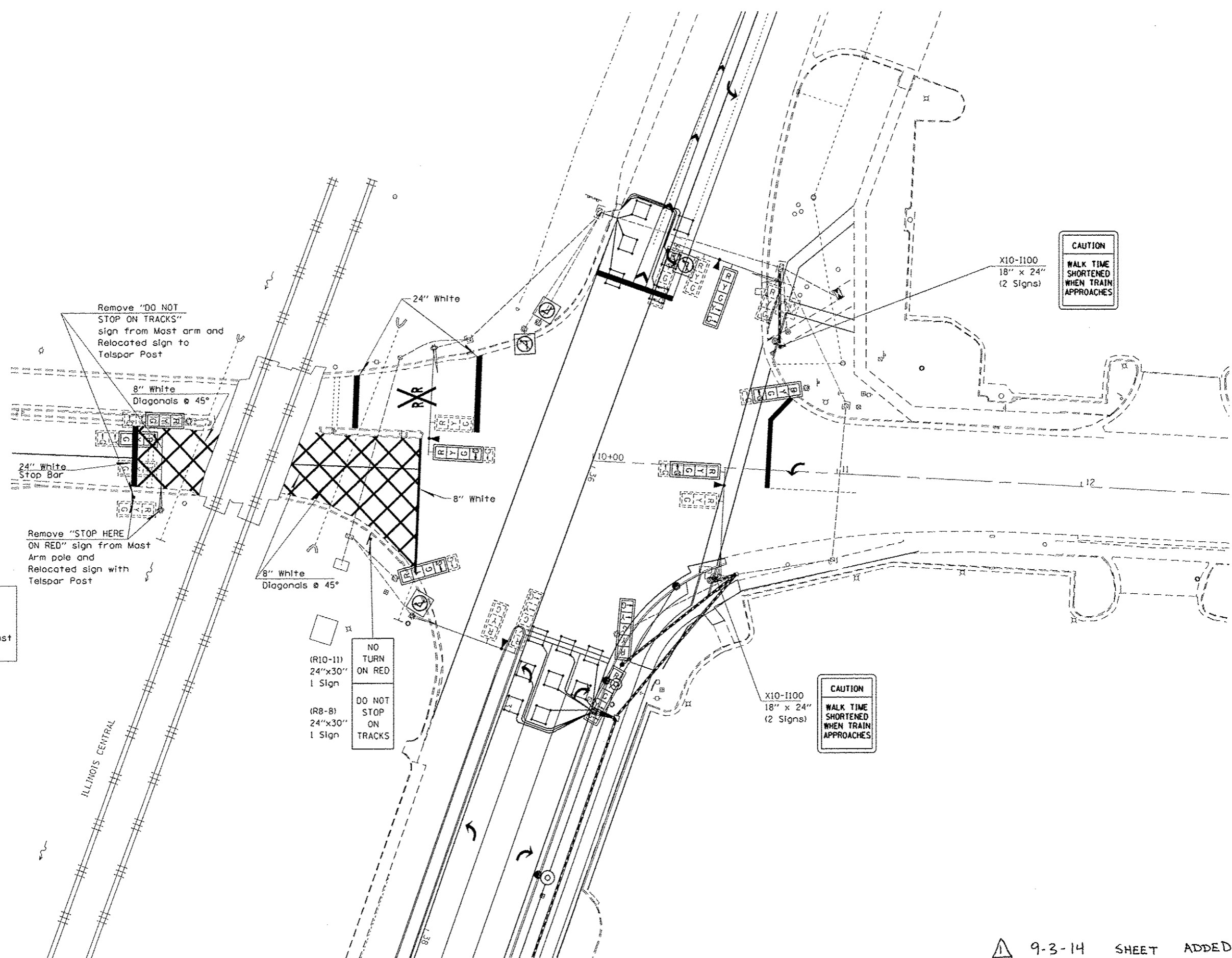


9-3-14 REVISED SHEET

BILL OF MATERIALS - US 45 & RICKELMAN AVENUE

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 3/4 " DIA.	FOOT	10.0
UNDERGROUND CONDUIT, PVC, 1 1/2 " DIA.	FOOT	272.0
UNDERGROUND CONDUIT, PVC 2" DIA.	FOOT	149.0
HANDHOLE	EACH	1.0
GULFBOX JUNCTION	EACH	2.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	424.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	679.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	2127.0
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	1.0
PEDESTRIAN PUSH-BUTTON POST	EACH	2.0
CONCRETE FOUNDATION, TYPE A	FOOT	3.0
DRILL EXISTING HANDHOLE	EACH	4.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5 SECTION, BRACKET MOUNTED	EACH	1.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	3.0
DETECTOR LOOP, TYPE 1	FOOT	812.0
LIGHT DETECTOR	EACH	4.0
LIGHT DETECTOR AMPLIFIER	EACH	1.0
PEDESTRIAN PUSH-BUTTON	EACH	2.0
ILLUMINATED SIGN, LED	EACH	4.0
△ MODIFY EXISTING CONTROLLER CABINET	EACH	1.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	852.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING HANDHOLE	EACH	2.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2.0
SPARE FULL ACTUATED CONTROLLER, SPECIAL	EACH	1.0
△ FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1.0
ELECTRIC CABLE IN CONDUIT NO. 20 3/C. TWISTED, SHIELDED	FOOT	1123.0
SIGN PANEL, TYPE 1	SQ FT	16.0
TELESCOPING STEEL SIGN SUPPORT	FOOT	34.0
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1.0
△ UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4 SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2.0
MODIFY EXISTING CONCRETE FOUNDATION	EACH	1.0

△ 9-3-14 REVISED



Remove "NO TURN ON RED" sign from Mast arm and Relocated sign to Mast Arm Pole

Remove "STOP HERE ON RED" sign from Mast Arm pole and Relocated sign with Telspar Post

Remove "DO NOT STOP ON TRACKS" sign from Mast arm and Relocated sign to Telspar Post

(R10-11)
24"x30"
1 Sign

(R8-8)
24"x30"
1 Sign

CAUTION
WALK TIME SHORTENED WHEN TRAIN APPROACHES

CAUTION
WALK TIME SHORTENED WHEN TRAIN APPROACHES

9-3-14 SHEET ADDED

FILE NAME :	USER NAME : MCELELLANLO	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAILROAD STRIPING & SIGN PLACEMENT			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74282-STR-15.dgn		DRAWN -	REVISED -		8379	112RIN	Effingham	36	22A			
PLOT SCALE = 40.0000 ' / in.		CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 74282				
PLOT DATE = 8/28/2014		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							