02-28-14 LETTING ITEM 005

	FUNCTIONAL CLASSIFICATION	ADT	SPEED
IL ROUTE 50	OTHER PRICIPAL ARTERIAL / SRA ROUTE	43,500	35MPH
SOUTHWEST HWY WEST OF IL RTE 50	MINOR ARTERIAL	27,400	зомрн
SOUTHWEST HWY EAST OF IL RTE 50	MAJOR COLLECTOR	17,700	зомрн

THIS PROJECT IS LOCATED IN THE VILLAGE OF OAK LAWN

0

0

0

0

FOR LIST OF INDEX SHEETS, SEE SHEET NO. 2

IDOT HIGHWAY STANDARDS:

STD. No. 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 001006 DECIMAL OF AN INCH AND OF A FOOT PERPENDICULAR CURB RAMPS FOR SIDEWALKS 424001-07 424011-01 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER 606001-05 701101 -04 OFF-RD OPERATIONS, MULTI-LANE 15, (4.5 m) TO 24" (60 mm) FROM PAVEMENT EDGE OFF-RD OPERATIONS, MULTI-LANE, MORE THAN 15' (4.5 m) AWAY 701106-02 701427-02 LANE CLOSURE, MULTI-LANE, INTERMITTENT OR MOVING OPERATION FOR < 40 MPH 701602-07 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE URBAN LANE CLOSURE, MULTILANE INTERSECTION 701701-09 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE TRAFFIC CONTROL DEVICES 701901-03 720001-01 SIGN PANEL MOUNTING DETAILS HANDHOLES 814001-02

814006-02 DOUBLE HANDHOLES

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

SUPERVISED RAILROAD INTERCONNECT CIRCUIT 857006-01 UNINTERRUPTABLE POWER SUPPLY (UPS)

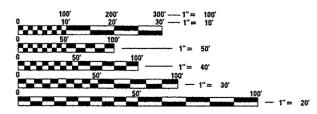
873001-02 TRAFFIC SIGNAL GROUNDING & BONDING

CONCRETE FOUNDATION DETAILS 878001-09

877011-05 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55' 877012-02 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'

SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION 880001-01 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

DETECTOR LOOP INSTALLATIONS



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

886001-01

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

CONTRACT NO. 60X25

STATE OF ILLINOIS

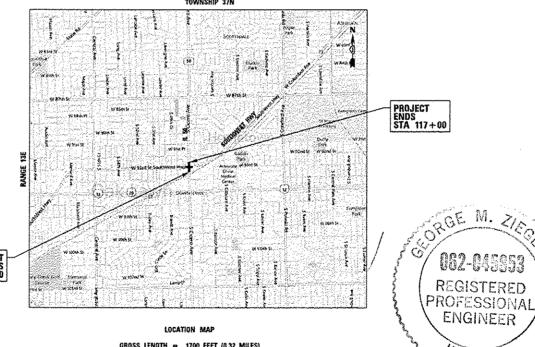
DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

FAP 350 (IL ROUTE 50 / CICERO AVENUE) AT SOUTHWEST HIGHWAY **SECTION 461TS-2(13)**

PROJECT: ACHSIP-0350(040) INTERSECTION IMPROVEMENT AND TRAFFIC SIGNAL MODERNIZATION **COOK COUNTY**

C-91-046-14

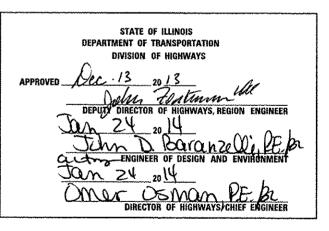


GROSS LENGTH = 1700 FEET (0.32 MILES)

Dearge M. Zieglan

461TS-2(13) C00K X 42 1 FED. ROAD DIST. NO. | ILLINOIS CONTRACT NO. 60X25

MANKARIT LOCATION OF SECTION INDICATED THUS: - -



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV.

SURVEYED PLOTIED ALEMANT CHECKED RT. OF NAT CHECKED CADO FILE NAME PLAN NOTE BOOK B. BURKE Sutto 600 CHRISTOPHER 9575 West Higgins Road, St. Rosemon, Bhods 60018 (847) 823-0500

9

INDEX OF SHEETS

1	COVER SHEET
2	INDEX & GENERAL NOTES
3-9	SUMMARY OF QUANTITIES
10	TYPICAL SECTIONS
11	REMOVAL PLAN (SHEET 1 OF 2)
12	REMOVAL PLAN (SHEET 2 OF 2)
13	ROADWAY AND SIDEWALK IMPROVEMENT PLAN (SHEET 1 OF 2)
14	ROADWAY AND SIDEWALK IMPROVEMENT PLAN (SHEET 2 OF 2)
15	ROADWAY LIGHTING GENERAL NOTES & BILL OF MATERIALS
16	ROADWAY LIGHTING EXISTING CONDITIONS & REMOVAL PLAN
17	PROPOSED ROADWAY LIGHTING MODIFICATION PLAN
17A	ROADWAY LIGHTING DETAILS
18	TEMPORARY TRAFFIC SIGNAL INSTALLATION IL ROUTE 50 AND SOUTHWEST HIGHWAY (SHEET 1 OF 2)
19	TEMPORARY TRAFFIC SIGNAL INSTALLATION IL ROUTE 50 AND SOUTHWEST HIGHWAY (SHEET 2 OF 2)
20	TEMPORARY CABLE PLAN IL ROUTE 50 AND SOUTHWEST HIGHWAY
21-22	TEMPORARY SEQUENCE OF OPERATION, TEMPORARY RAILROAD PREEMPTION SEQUENCE, TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 50 AND SOUTHWEST HIGHWAY
23	TRAFFIC SIGNAL MODERNIZATION PLAN IL ROUTE 50 AND SOUTHWEST HIGHWAY (SHEET 1 OF 2)
24	TRAFFIC SIGNAL MODERNIZATION PLAN IL ROUTE 50 AND SOUTHWEST HIGHWAY SHEET 2 OF 2)
25	SCHEDULE OF QUANTITIES AND CABLE PLAN IL ROUTE 50 AND SOUTHWEST HIGHWAY
26-27	SEQUENCE OF OPERATION, RAILROAD PREEMPTION SEQUENCE, EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 50 AND SOUTHWEST HIGHWAY
28	TEMPORARY INTERCONNECT PLAN IL ROUTE 50 (FROM 94th STREET TO 91st STREET)
29	TEMPORARY INTERCONNECT SCHEMATIC IL ROUTE 50 (FROM 94th STREET TO 91st STREET
30	INTERCONNECT PLAN IL ROUTE 50 (FROM 94th STREET TO 91st STREET
31	INTERCONNECT SCHEMATIC IL ROUTE 50 (FROM 94th STREET TO 91st STREET
32	LED INTERNALLY ILLUMINATED STREET NAME SIGN
33	DISTRICT ONE ILLUMINATED STREET NAME SIGN
34-39	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
39A	DISTRICT ONE LUMINAIRE SAFETY CABLE ASSEMBLY STANDARD DETAIL
39 8	DISTRICT ONE TEMPORARY LIGHT POLE STANDARD DETAIL
40	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS. INTERSECTIONS, AND DRIVEWAYS
41	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

ARTERIAL ROAD INFORMATION SIGN

GENERAL NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSREC), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS; ADOPTED JANUARY 1, 2014 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO: IN CASE OF CONFLICT. THE MORE RESTRICTIVE PROVISIONS SHALL APPLY. ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERRETED TO BE THE LATEST STANDARDS OR THE DEPARTMENT. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. AND THE VILLAGE OF DAK LAWN, THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND CUTTER TO EXISTING CURB AND GUTTER, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND CUTTER TO EXISTING CURB AND GUTTER, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
THE CONTRACTOR SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
THE CONTRACTOR SHALL NOTIFY THE IDOT ARTERIAL TRAFFIC CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES

A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT OR AT THE DIRECTION OF THE ENGINEER.

THE GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) UNDER SECTION 6G. 18: WORK IN THE VICINITY A GRADE CROSSING WHICH STATES: "WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TIC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE OUEUED ACROSS THE TRACKS. IF THE OUEUING OF VEHICLES ACROSS THE TRACKS. CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE."

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

FIL	LE NAME :	USER NAME = fborise	DESIGNED - LJ	REVISED -		**************************************	F.A.P. SECTION	COLDITY TOTAL SHEET
N±N	\ldot\130116\Work Order 13018 - 11585Wr	my\Traffia\{NX_130}16,aht	DRAWN - FP8 / FCP	REVISED -	STATE OF ILLINOIS	INDEX OF SHEETS AND GENERAL NOTES	RTE, SECTION	COUNTY SHEETS NO.
		PLOT SCALE = 2	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	HIDEN AL QUELLO MAD GENERAL MOLEO	350 461TS-2(13)	COOK 42 2
L		PLGT DATE + 1/22/2814	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA, TO STA.	FED. ROAD DIST. NO. 10 INDISTEED.	CONTRACT NO. 60X25

IL ROUTE 50 AT SOUTHWEST HIGHWAY INTERCONNECT CONSTRUCTION CODE 0005 0021 0021 0021 URBAN HSIP FUNDS HSIP FUNDS LOCAL FUNDS HSIP FUNDS CODE TOTAL ITEM UNIT 90% FED 90% FED 90% FED QUANTITY NO. 10% STATE 10% STATE 100% LOCAL 10% STATE CU YD 7 20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL 7 20700220 POROUS GRANULAR EMBANKMENT CU YD 7 7 SQ YD 20 20 21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SQ YD 21101615 TOPSOIL FURNISH AND PLACE, 4" 325 325 25000400 NITROGEN FERTILIZER NUTRIENT POUND 6 6 POUND 6 6 25000500 PHOSPHORUS FERTILIZER NUTRIENT 25000600 POTASSIUM FERTILIZER NUTRIENT POUND 6 6 325 25200110 SODDING, SALT TOLERANT 325 325 SQYD UNIT 25200200 SUPPLEMENTAL WATERING 1 EACH 28000510 INLET FILTERS 10 10 31101200 SQ YD 713 713 SUBBASE GRANULAR MATERIAL, TYPE B 4" PORTLAND CEMENT CONCRETE BASE COURSE 9" SQ YD 330 330 35300400 40603085 HOT-MIX ASPHALT BINDER COURSE. IL-19.0, N70 TON 75 75 40603340 TON 30 30 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70

• SPECIALITY ITEM

Rev.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES SHEET 1 OF 7

_ TO STA. _

OFFOL

F.A.P. SECTION COUNTY SHEETS NO. 350 46175-2113) COOK 42 3 CONTRACT NO. 60X25

SUPPERED CHECKER ALTONERS CHECKER HIL OF MAY CHECKER CLOS FIRE NAME.

CHRISTOPHER

9575 West Higgins Read, Sag B. Razemert, Brobs 60018 (847) 823-0200

ATION

SCALE: _____ SHEET NO. __ OF ___ SHEETS | STA. ____

		:		CONSTRUC					
				URBAN	0005	0021	0021	0021	
	CODE		***	TOTAL	HSIP FUNDS	HSIP FUNDS	LOCAL FUNDS	HSIP FUNDS	
	NO.	ITEM	UNIT	QUANTITY	90% FED	90% FED		90% FED	
	140.		***	COMITTI	10% STATE	10% STATE	100% LOCAL	10% STATE	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	3583		3583			
					L				
	42400800	DETECTABLE WARNINGS	SO FT	115		115			
	44000100	PAVEMENT REMOVAL	SQ YD	466	466				
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	520		520			
	44000600	SIDEWALK REMOVAL	SQ FT	2559		2559			
	60001333								
	60261300	INLETS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	rood.					
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	546		546			
	0000000	COMMENTAL CONTROL CONTROL DOTTER, THE DOTTE	1 1001	350					
	67100100	MOBILIZATION .	L SUM	1		1			
	70102632	TRAFFIC CONTROL AND PROTECTION. STANDARD 701602	L SUM	1		1			
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		prod			

	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		1			
*									
,	72000100	SIGN PANEL - TYPE 1	SO FT	48		48			
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	110		110			
•	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1610		1610			
									- SPECIALITY ITEM
15 •	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	827		827			
USER NAME = #jen# 218 - (L585W) wy\Treffio\SUM_)32()		DESIGNED - LJ	E OF ILLINOIS	***************************************		SUMMARY OF Q		F.A.P. RTE.	SECTION COUNTY TO
PLOT SCALE = 2'	PAYE.ECV		OF TRANSPORTAT	ION		SHEET 2 0		350	461TS-2(13) COOK CONTRACT NO.
	2813	DATE - REVISED -				T NO OF SHEETS		1	

IL ROUTE 50 AT SOUTHWEST HIGHWAY

INTERCONNECT

				IL ROUTE SO AT SOUTHWEST HIGHWAY CONSTRUCTION CODE			INTERCONNECT	
			URBAN	0005	0021	0021	0021	
CODE			TOTAL	HSIP FUNDS	HSIP FUNDS	LOCAL FUNDS	HSIP FUNDS	
NO.	ITEM	UNIT	QUANTITY	90% FED	90% FED		90% FED	
·····				10% STATE	10% STATE	100% LOCAL	10% STATE	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	45		45			
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	225		225		**************************************	
age in the street was the filler contract of the first field from							***************************************	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1375		1375			
7250000							-	
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		4			
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1787		1579		208	
· · · · · · · · · · · · · · · · · · ·								
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL. 2 1/2" DIA.	FOOT	78		78			
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	88		88			
0.0000.00		5007			569			
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL. 4" DIA.	FOOT	569		307		A STATE OF THE PROPERTY OF THE	
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	100		100			
		AL PARTY AND ALL						
81400100	HANDHOLE	EACH	6		6			
81400200	HEAVY-DUTY HANDHOLE	EACH	5		5			
81400300	DOUBLE HANDHOLE	EACH	3		A. S.			
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2680		2680			
011 VE 11V	ELECTRIC CAME AT CONDOLL, GOOT WELL THE GOE! IT C 1901 IV	100						
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	880		880			
				· · · · · · · · · · · · · · · · · · ·			 	

Rey.

DESIGNEO - LJ DRAWN - FPB / FCP REVISED - ___ FILE NAME : USER NAME - ejensen REVISED -Nyldot\138116\Work Order 13818 - ILS8SWigy\Traffic\SUM_138116_83.sht PLOT SCALE * 2" PLOT DATE * 12/11/2813 REVISED - ____ CHECKED - CMZ REVISED -DATE - ___

PLAN SENETED NOTE OF SENETED NOTE BOOK RECKED NO CHICAGE NEW CHECKED NO CHICAGE NEW CHECKED NOTE NEW CHICAGE NEW C

CHRISTOPHER B. BURKE
C 3 9575 West (Aggies Read, Safe 800
E 3 Roserowa, Mande (60018
(847)823-9540

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES SHEET 3 OF 7

COUNTY SHEETS NO.
COOK 42 5
CONTRACT NO. 60X25 F.A.P. RTE. 350 SECTION 46175-2(13)

SCALE: _____ SHEET NO. _ DF __ SHEETS STA. _____ TO STA, ____

				IL ROUTE S	INTERCONNEC		
			URBAN	0005	0021	0021	0021
CODE NO.	ITEM	UNIT	TOTAL	HSIP FUNDS 90% FED	HSIP FUNDS 90% FED	LOCAL FUNOS	HSIP FUNDS 90% FED
		any and a second		10% STATE	10% STATE	100% LOCAL	10% STATE
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2640	rance and a second	2640		
82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL. 400 WATT	EACH	The state of the s		7		
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	7		7		
84200804	REMOVAL OF POLE FOUNDATION	EACH	7		7		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2				2
85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	7			7	
85100901	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4			4	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	4114		144		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2355.				2355
			And the state of t				
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2466		2466		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2587		1942	645	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3213		3213		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2369		2369		
							A A A A A A A A A A A A A A A A A A A
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2422		2422		The state of the s
87301750	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	310		310		The state of the s

CHRISTOPHER B. BURKE Spris West Hoppes Read Suite 600 Reservont Witch 60018

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES SHEET 4 OF 7 SCALE: _____ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. ____ FED. ROAD DIST. NO. _ ILLINOIS FED. AID

				IL ROUTE SO AT SOUTHWEST HIGHWAY CONSTRUCTION CODE		INTERCONNECT	
			URBAN	0005	0021	0021	0021
CODE NO.	ITEM	UNIT	TOTAL	HSIP FUNDS 90% FED	HSIP FUNDS 90% FED	LOCAL FUNDS	HSIP FUNDS 90% FED
		+ Arrivative	OUANTITI	10% STATE	10% STATE	100% LOCAL	10% STATE
87301805	ELECTRIC CARLE IN COMPRIT SERVICE NO. C 2 C	5007	7.47		343		
01301903	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	343		J.T.		are the same and t
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 10	FOOT	1024		1024		
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3		3		
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4		4		
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1		1		
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	end				
87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	2		2		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28		28		
87800150	CONCRETE FOUNDATION, TYPE C	F00T	4		4		
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60		60	FA A CONTRACTOR OF THE CONTRAC	
87900200	DRILL EXISTING HANDHOLE	EACH	į				**
88030012	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	1		1		
88030020	SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	11		11		
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		5		
			•				
	DESIGNED - 11 REVISED -						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 5 OF 7
_____ | SHEET NO. ___ OF ___ SHEETS | STA. _____ TO STA. ____

				IL ROUTE S	O AT SOUTHWEST	HIGHWAY	INTERCONNECT
			URBAN	0005	0021	0021	0021
CODE NO.	ITEM	UNIT	TOTAL OUANTITY	HSIP FUNDS 90% FED	HSIP FUNDS 90% FED	LOCAL FUNDS	HSIP FUNDS 90% FED
				10% STATE	10% STATE	100% LOCAL	10% STATE
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	Verification of the second of		1		
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3		3		
88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	8		8		
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16		16		
				Araba da			
88500100	INDUCTIVE LOOP DETECTOR	EACH	10		10		
88600100	DETECTOR LOOP, TYPE 1	FOOT	955		955		Parameter and the second secon

88700200	LIGHT DETECTOR	EACH	3	MARIA		3	1
88700300	LIGHT DETECTOR AMPLIFIER	EACH	4.01			e e e e e e e e e e e e e e e e e e e	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8		
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		e e d		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5722		3300		2422
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH			î		
						The state of the s	
89502380	REMOVE EXISTING HANDHOLE	EACH	14		14		
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9		TOTAL PARTY AND THE PARTY AND
		-			THE PARTY OF THE P		
X0323927	MAINTENANCE OF LIGHTING SYSTEM	EACH	1 .		u de la companya de l		
<i>-</i>	OFCIONED		· · · · · · · · · · · · · · · · · · ·				IFAR

FILE NAME :	USER NAME = ajansan	DESIGNED .	LJ	REVISED	•
N:\Idot\i38116\Work Order 13818 - 1L585W:	vg\~raffio\\$UM_138116_86,±ht	DRAWN -	FPB / FCP	REVISED	
	PLOT SCALE > 2'	CHECKED -	GMZ -	REVISED	
	PLOT DATE * 12/31/2813	DATE -		REVISED	

CHRISTOPHER B. BURKE
C B 5025 West Hoppins Read Suffre Eco
B (E47) 823-6500

0005 0021 0021 0021 URBAN HSIP FUNDS HSIP FUNDS HSIP FUNDS LOCAL FUNDS CODE TOTAL ITEM UNIT 90% FED 90% FED 90% FED NO. QUANTITY 10% STATE 10% STATE 100% LOCAL LOW STATE FOOT X0324085 EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C 645 645 X4402805 ISLAND REMOVAL SQ FT 551 551 6 EACH X8100105 CONDUIT SPLICE EACH X8571215 RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL 1 X8620200 UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH 5 2407 X8710024 FIBER OPTIC CABLE IN CONDUIT, NO. 62,5/125, MM12F SM24F FOOT 2407 CHRISTOPHER

9575 West (Kygins Reper, Sis)

Rosemant Received, Sis)

(847) 823-0500 X0327698 LED INTERNALLY ILLUMINATED STREET NAME SIGN EACH Z0013798 CONSTRUCTION LAYOUT L SUM Z0033044 EACH 1 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL I Z0048665 RAILROAD PROTECTIVE LIABILITY INSURANCE L SUM ZOO76600 TRAINEES HOUR 500 500 Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING EACH 20076604 TRAINEES-TRAINING PROGRAM GRADUATE 500 500 HOUR

Ø0042

3

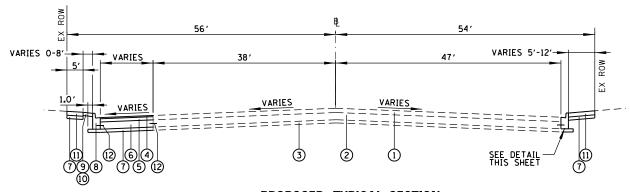
* SPECIALITY ITEM

REVISED -COUNTY TOTAL SHEE SHEETS NO. FILE NAME : DESIGNED - LJ USER NAME = ejensen SECTION SUMMARY OF QUANTITIES DRAWN - FPB / FCP REVISED -STATE OF ILLINOIS COOK 42 9 CONTRACT NO. 60X25 Nildotlisgiislwork Order 13819 - It.585wheylTraffiolSUM_13816_87.aht 46175-2013) SHEET 7 OF 7 350 CHECKED - GMZ PLOT SCALE * 2' DEPARTMENT OF TRANSPORTATION REVISEO -SCALE: _____ SHEET NO. __ OF ___ SHEETS | STA. ___ PLOT DATE * 12/11/2013 DATE -REVISED -

IL ROUTE 50 AT SOUTHWEST HIGHWAY

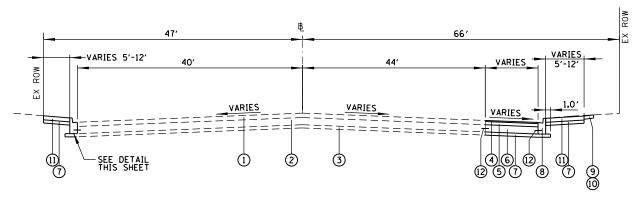
CONSTRUCTION CODE

INTERCONNECT



PROPOSED TYPICAL SECTION

IL 50 (CICERO AVE.) STA 113+85 - STA 114+88



PROPOSED TYPICAL SECTION

IL 50 (CICERO AVE) STA 112+29 - STA 113+00

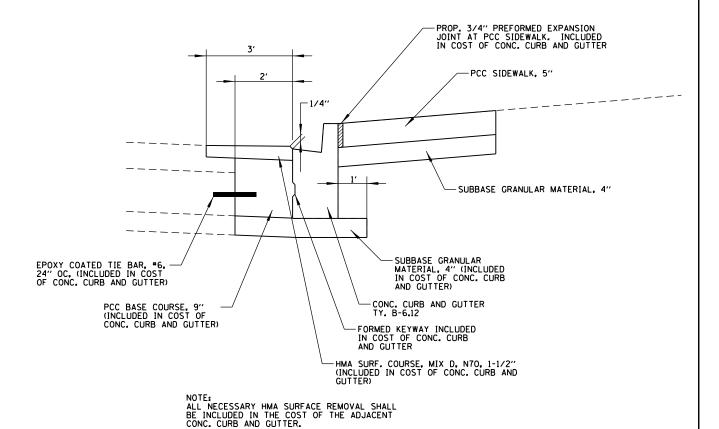
HOT-MIX ASPHALT REQUIREMENT	TS
MIXTURE TYPE	AIR VOIDS NDES
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL 9,5mm)	4% © 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% e 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQYD/IN
THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76-22" AND
FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-28" UNLESS MODIFIED
BY DISTRICT ONE SPECIAL PROVISIONS"

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ON SPECIAL PROVISIONS

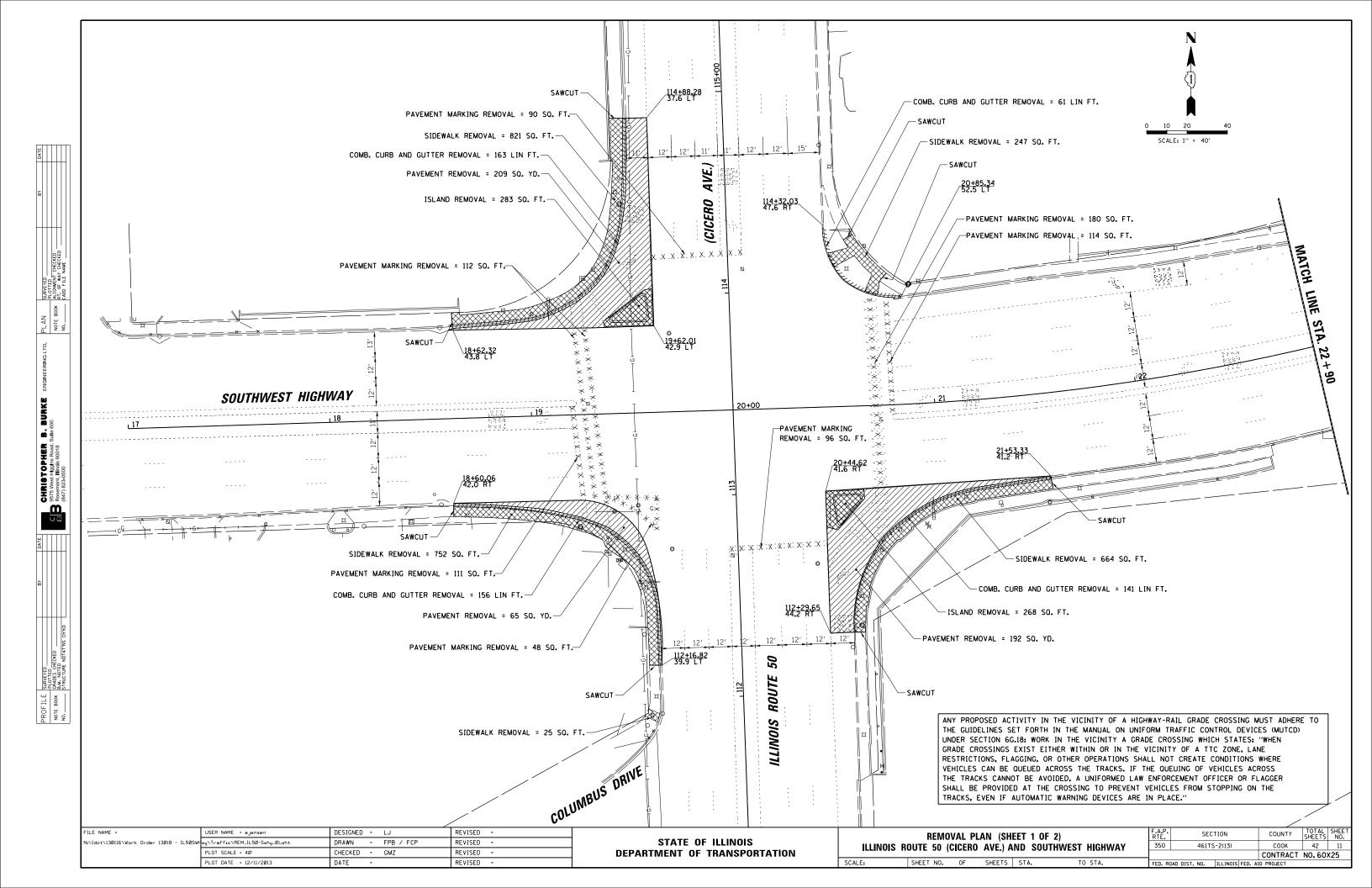
LEGEND

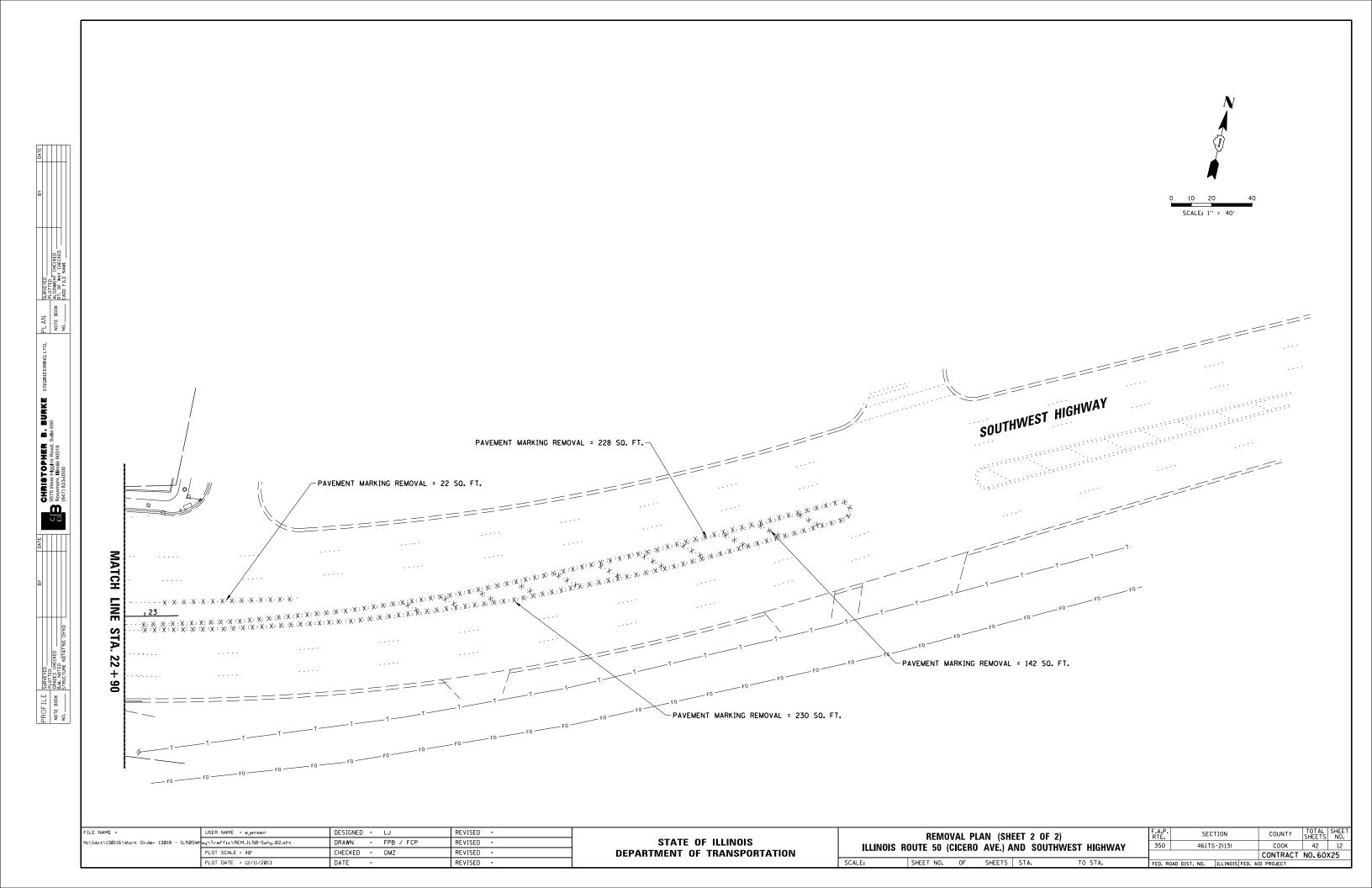
- 1) EXISTING HMA PAVEMENT
- 2 EXISTING PCC BASE COURSE
- 3 EXISTING SUBBASE GRANULAR MATERIAL
- 4) HMA SURFACE COURSE, MIX D, N70, 1-1/2"
- 5) HMA BINDER COURSE, IL-19.0, 4"
- 6 PCC BASE COURSE, 9"
- 7) SUBBASE GRANULAR MATERIAL, 4"
- 8 COMBINATION CONCRETE CURB AND GUTTER, TY B-6.12
- (9) TOPSOIL, FURNISHED AND PLACED, 4"
- 10 SODDING, SALT TOLERANT
-) PCC SIDEWALK, 5"
- EPOXY COATED TIE BAR, *6, 24" OC, INCLUDED IN COST OF CONCRETE BASE COURSE

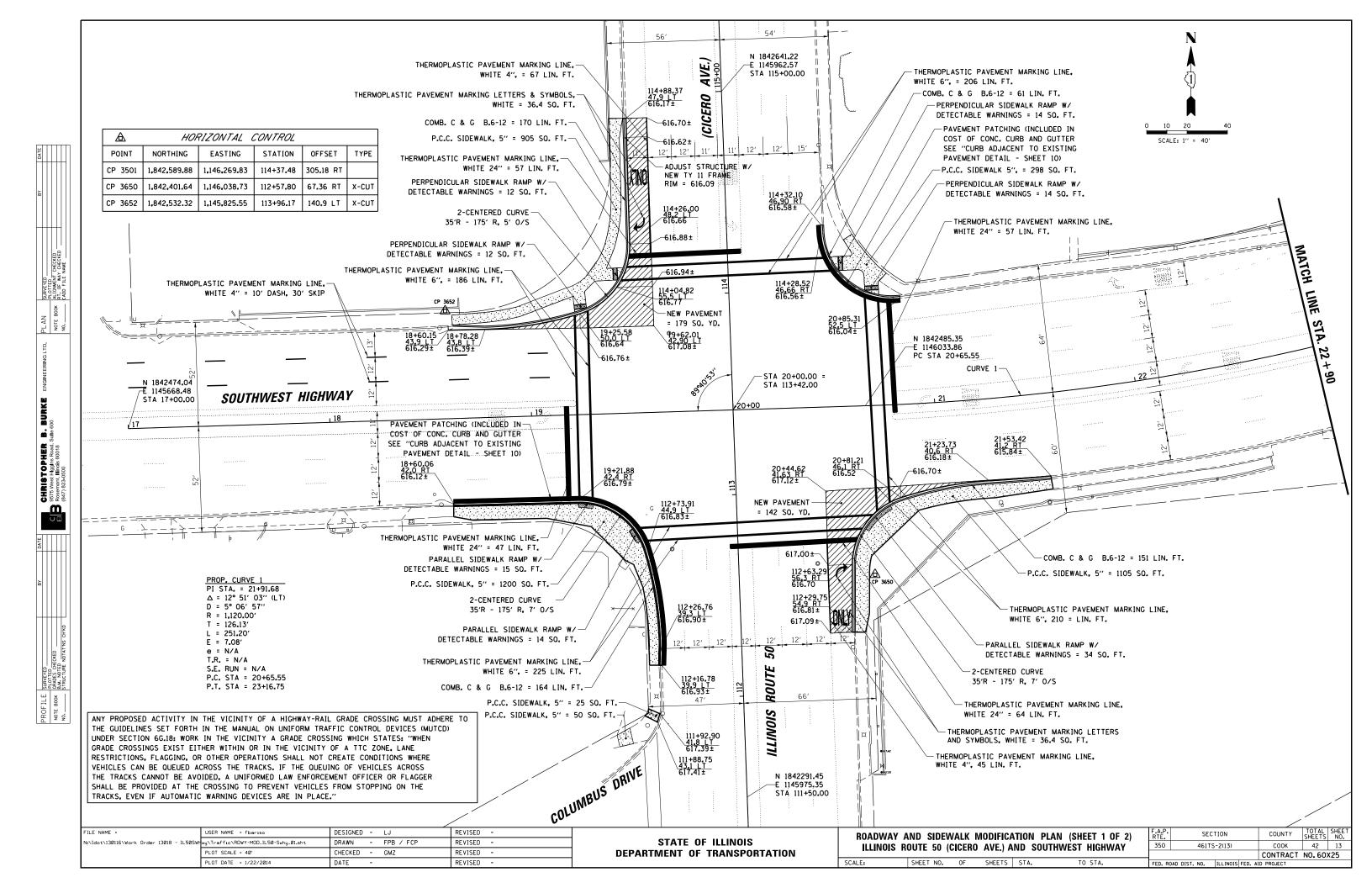


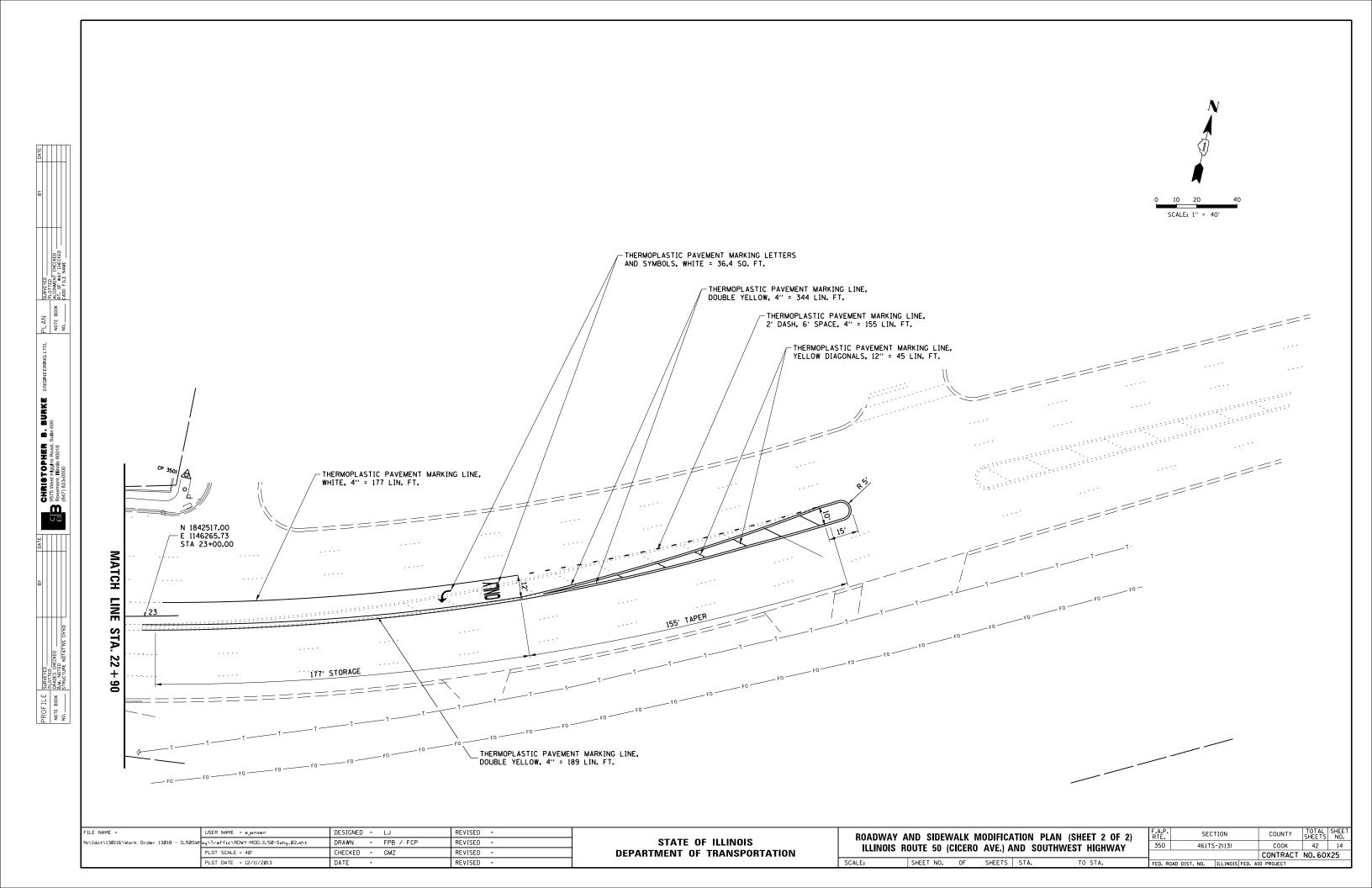
CURB ADJACENT TO EXISTING PAVEMENT DETAIL

FILE NAME =	USER NAME = fbariso	DESIGNED - LJ	REVISED -			F.A.P.	SECTION	COUNTY	TOTAL	SHEET
N:\Idot\130116\Work Order 13018 - IL50SWH	wy\Traffic\TYP_130116.sht	DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS	TYPICAL SECTIONS	350	461TS-2(13)	СООК	42	10
	PLOT SCALE = 20'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 60	X25
	PLOT DATE = 1/22/2014	DATE -	REVISED -	1	SCALE: SHEET NO. OF SHEETS STA. TO STA.	EED BOAD DIST N	NO THE INDISEED			









DATE					
ВҮ					
		L CHECKED	VY CHECKED	NAME	

E ENGINEERING LTD.

CHRISTOPHER B. 9575 West Higgins Road, Sulte Rosemont, Illinois 60018



	1	<u>-</u>	Û
DAIE			

PLOTTED GRADES CHECKED B.M. NOTED STRICTIBE NOTATING CHIKD

NOTE BOO

LIGHTING NOTES

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/ DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
- 2. ALL POLE HANDHOLES SHALL FACE AWAY FROM TRAFFIC.
- EXISTING UNIT DUCT IS $1/\!\!/_4$ " DIAMETER SCH 40 HDPE WITH 3/C "4 & 1/C "6 GROUND XLP-TYPE USE CABLES, OR AS SHOWN ON PLANS.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE VILLAGE OF OAK LAWN BEFORE THE START OF WORK, ANY COST FOR PERMIT SHALL BE INCIDENTAL.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:

"STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", AS PREPARED BY IDOT.

"THE NATIONAL ELECTRICAL CODE".

MUNICIPAL CODES & STANDARDS.

- 6. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE OWNER'S REPRESENTATIVE.
- 7. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF THE PROPOSED SIDEWALK ELEVATION WITH THE FINISHED GRADE AND TOP OF CURB ELEVATIONS.
- 9. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE VILLAGE OF OAK LAWN FOR MAINTAINING SERVICE TO THE LIGHTNG SYSTEM.
- 10. THE CONTRACTOR SHALL LABEL ALL WIRES WITH WIRE MARKERS INDICATING THE CIRCUIT ID IN EVERY CONTROLLER, POLE BASE, HAND HOLE AND SPLICE/CONNECTION POINT. WIRE MARKERS SHALL BE MECHANICALLY FASTENED WHITE PLASTIC, TYPE "PLM" AS MANUFACTURED BY PANDUIT OR APPROVED EQUAL.
- 11. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
- 12. ALL DISTURBED AREA WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. THE WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS INCLUDING ALL ABOVE AND BELOW GRADE APPURTENANCES. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 14. THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF THE EXISTING LIGHTING SYSTEM. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION AT NO ADDITIONAL COST TO THE OWNER. THE COST ASSOCIATED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.
- 15. THE ELECTRICAL CONTRACTOR SHALL FURNISH TWO SETS OF FULL SIZE RECORD DRAWINGS TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE INSTALLED LOCATIONS OF ALL LIGHT POLES, UNDERGROUND CONDUITS/WIRING, HANDHOLES, JUNCTION BOXES & CONTROLLER CABINETS. THE DRAWINGS WILL BE REVIEWED BY THE OWNER'S REPRESENTATIVE.
- 16. THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLTION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS AND VILLAGE OF OAK LAWN STREET LIGHTING ORDINANCE.

ROADWAY LIGHTING BILL OF MATERIALS

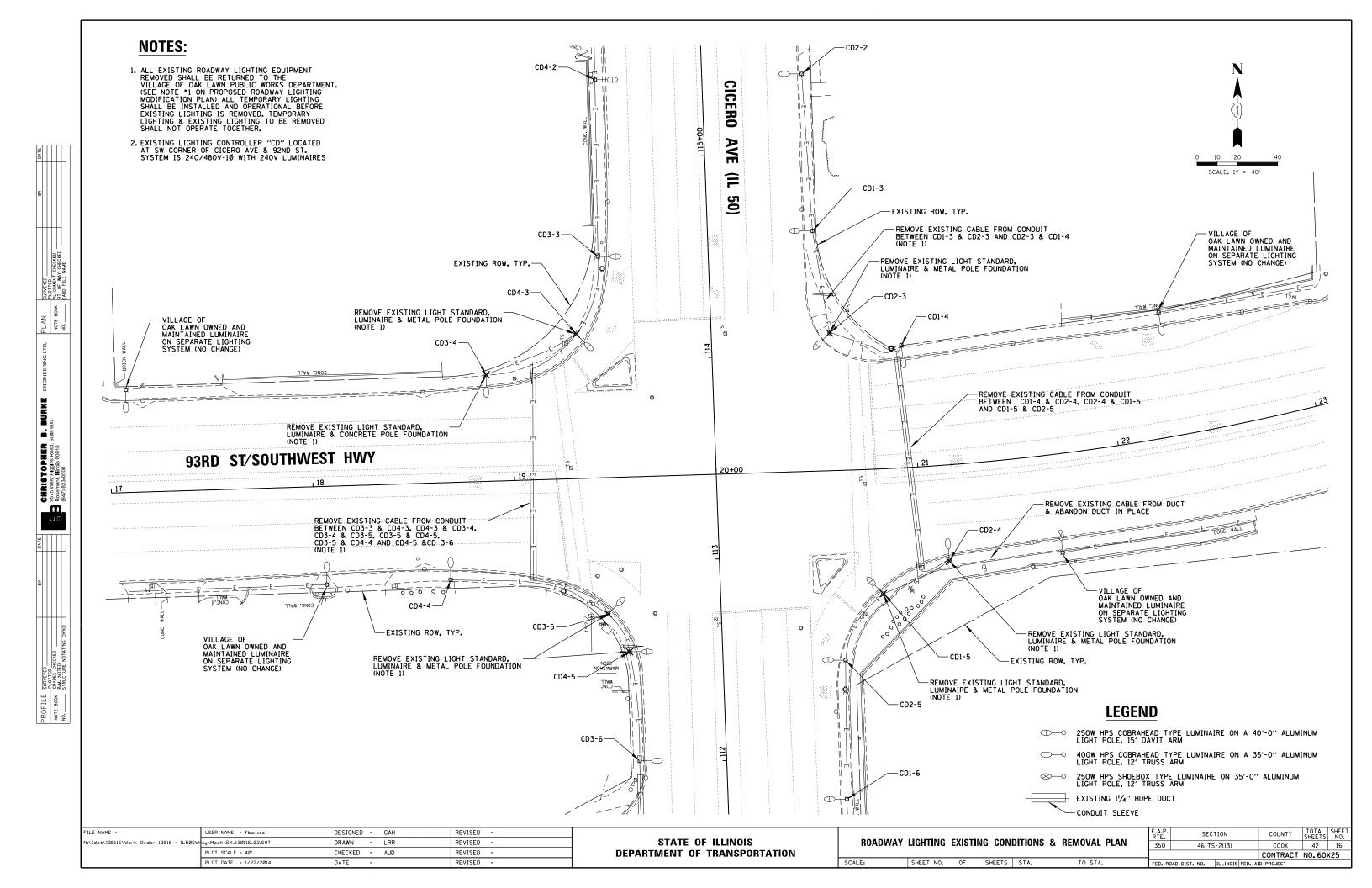
Code No.	Description	Unit	Quantity
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	100
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 10	FOOT	2680
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 6	FOOT	880
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 4	FOOT	2640
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	7
84200804	REMOVAL OF POLE FOUNDATION	EACH	7
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3300
•X0323927	MAINTENANCE OF LIGHTING SYSTEM	EACH	1
•X8100105	CONDUIT SPLICE	EACH	6

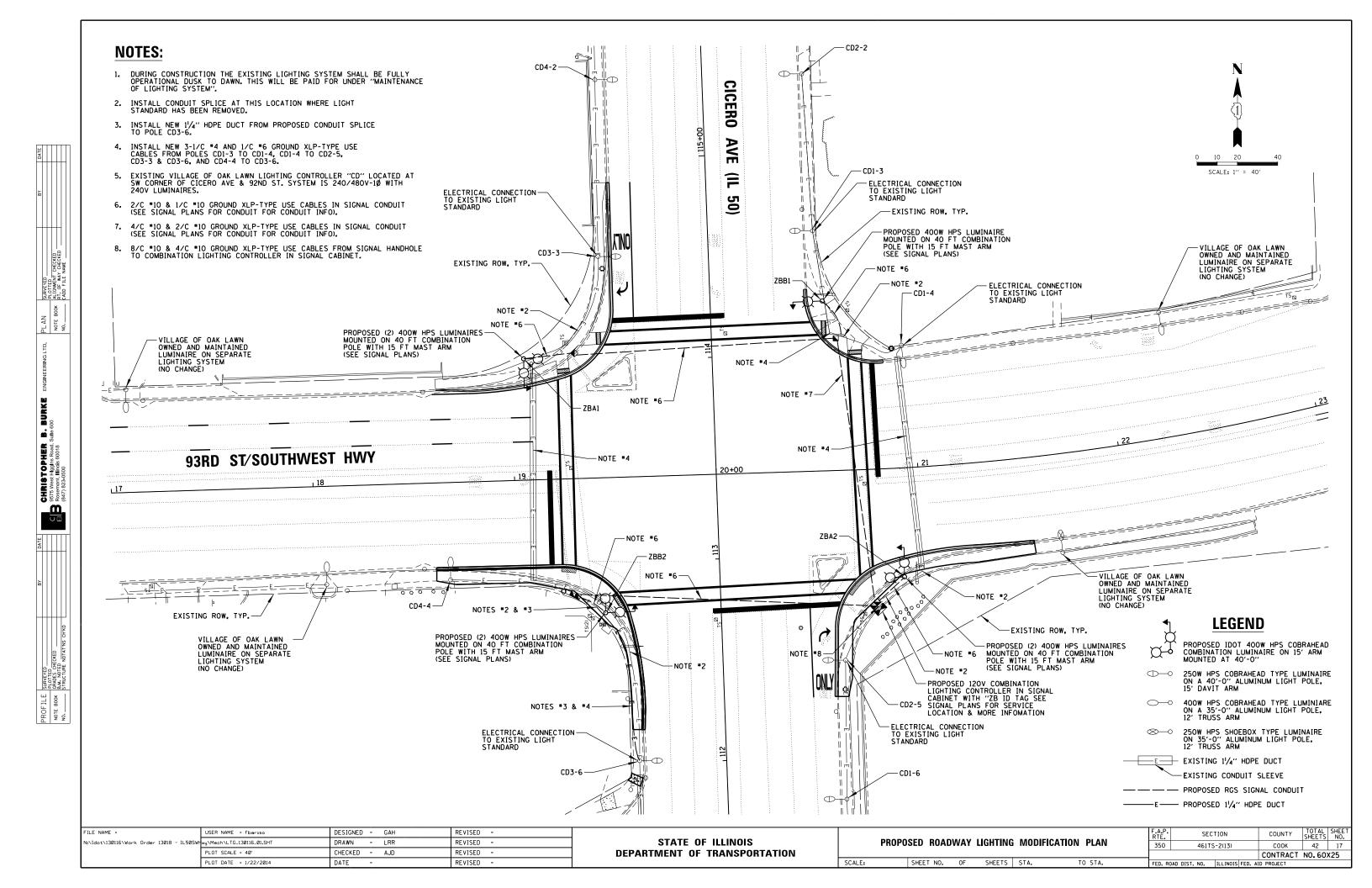
FILE NAME =	USER NAME = fbariso	DESIGNED -	GAH	REVISED -
N:\Idot\130116\Work Order 13018 - IL50SWH	wg\Mech\GN_130116_01.SHT	DRAWN -	LRR	REVISED -
	PLOT SCALE = 40'	CHECKED -	AJD	REVISED -
	PLOT DATE = 1/22/2014	DATE -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

DO A DIAVAN	LIGHTING	05115041					F.A.P. RTE.	SECT	ΓΙΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.
ROADWAY	LIGHTING	GENERAI	. NOTI	ES & I	BILL OF	MATERIALS	350	461TS	-2(13)	соок	42	15
										CONTRACT	NO. 60	X25
г.	CHEET NO	OF C	UEETC	CTA		TO CTA						

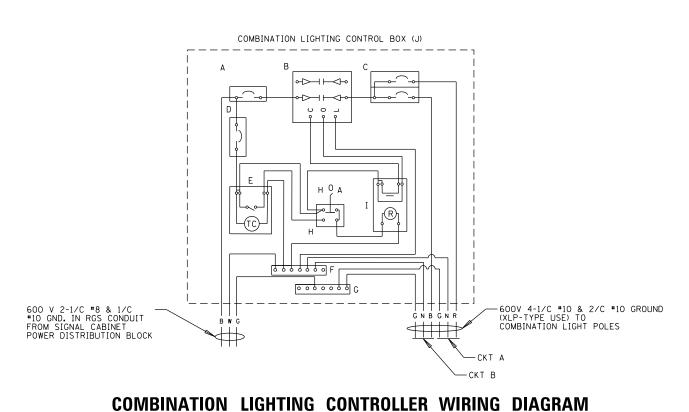


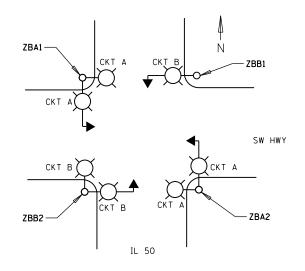


N.T.S

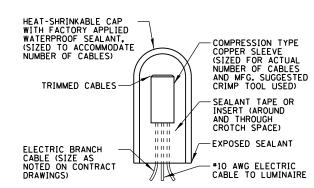
PANEL EQUIPMENT

		BILL OF MATERIALS
ITEM	QUANTITY	DESCRIPTION
А	1	CIRCUIT BREAKER, THERMAL MAGNETIC MOLDED CASE, 1 POLE, 120 VOLT 100 AMP FRAME, 40 AMP TRIP, INTERRUPTING RATING 10K RMS SYMMETRICAL AMP
В	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 60 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT
С	2	CIRCUIT BREAKERS, 1 POLE, 100 AMP. FRAME 30 AMP NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 10K AMP
D	1	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE 100 AMP FRAME, 15 AMP NON-INTERCHANGEABLE TRIP, INTERRUPTING RATING 10K RMS SYMMETRICAL AMP
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH)
F	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
G	1	COPPER NEUTRAL BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
н	1	H-O-A SWITCH
I	1	RELAY, 2 POLE, SINGLE THROW, 120 VOLT COIL, CURRENT RATING TO BE COORDINATED WITH CONTRACTOR
J	1	FIBERGLASS ENCLOSURE, APPROX. 20"W x 24"H x 8"D WITH HINGED COVER & 3 POINT LATCH, NEMA 4X, GRAY

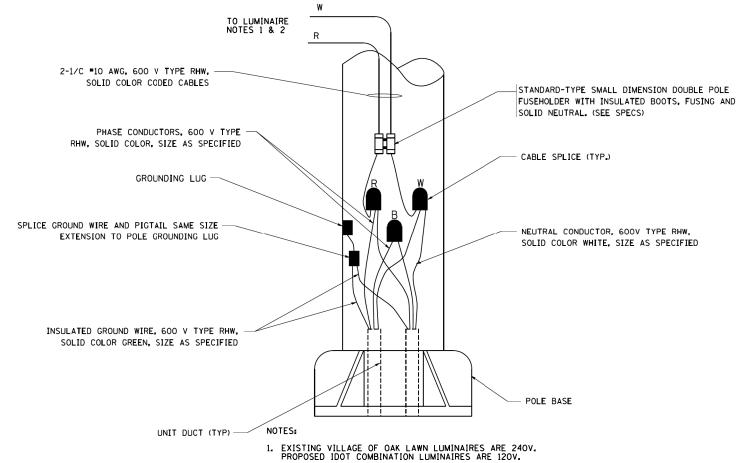




LIGHTING LAYOUT



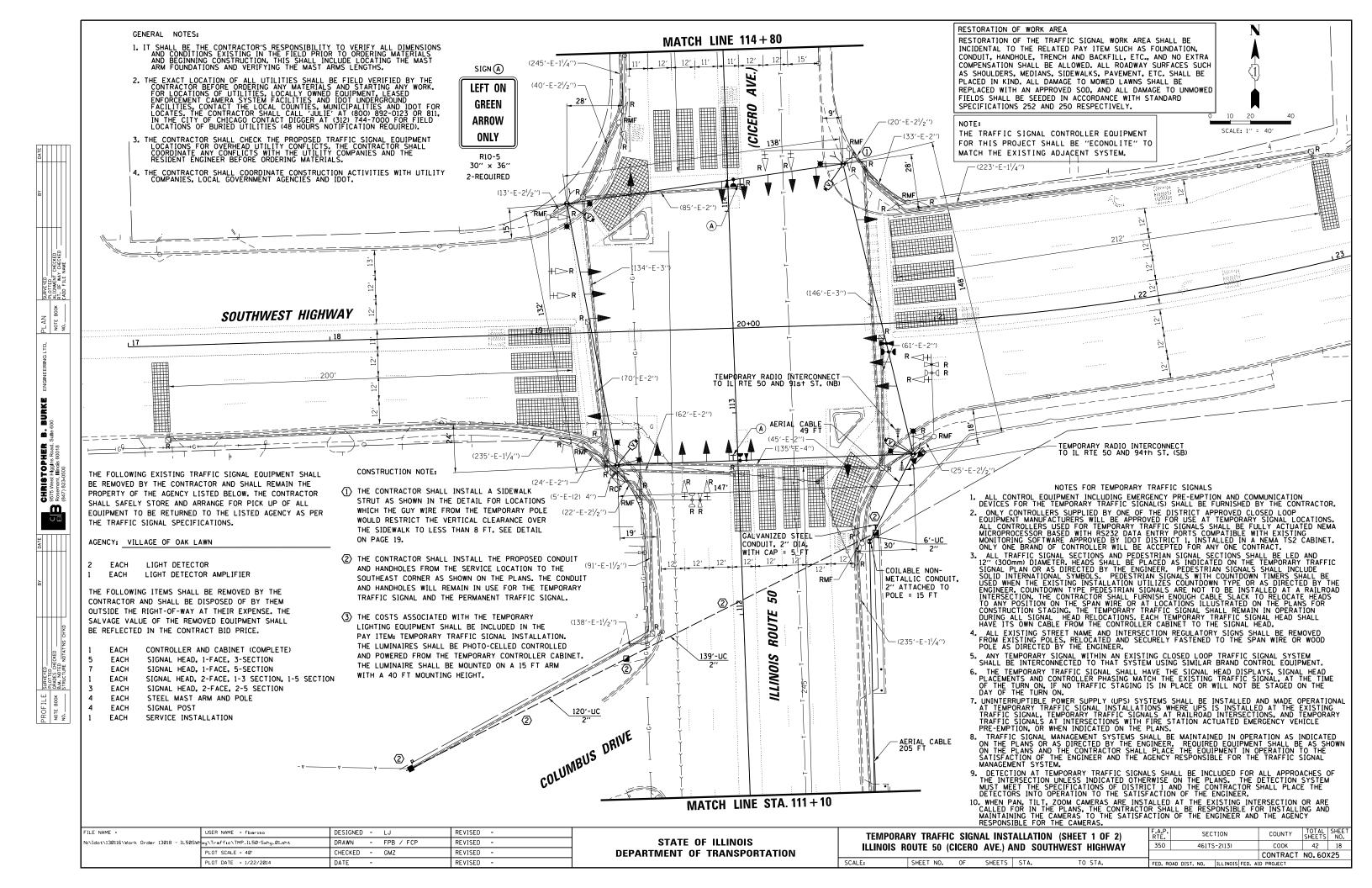
SPLICING ELECTRIC CABLE

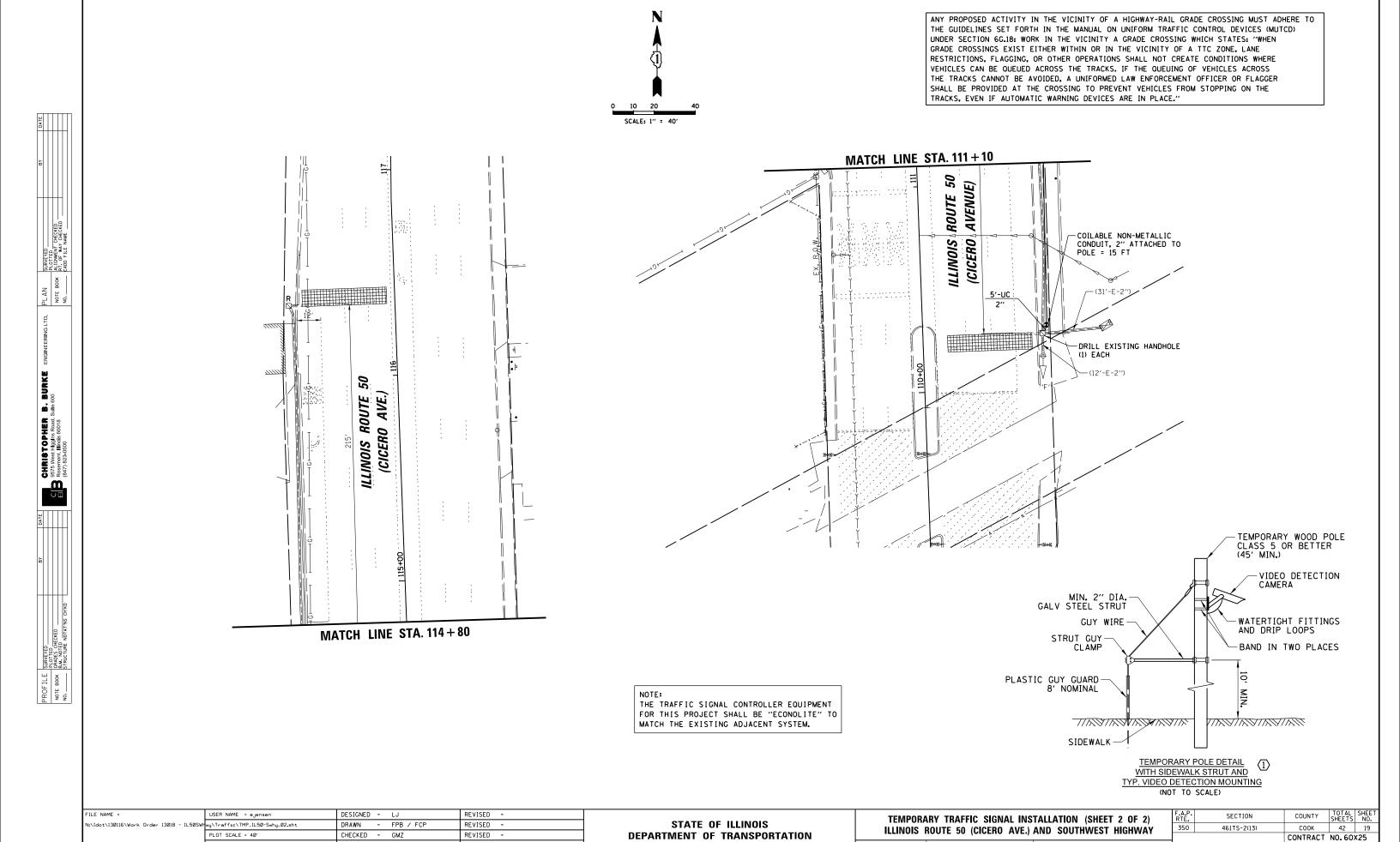


- 2. WHERE 2 LUMINAIRES ARE PRESENT, EACH LUMINAIRE SHALL BE FUSED SEPARATELY.

HANDHOLE WIRING DIAGRAM

F	ILE NAME =	USER NAME = fbariso	DESIGNED - GAH	REVISED - 1 ADDENDUM				F.A.P.	SECTION	COUNTY	TOTAL	SHEET
١	:\ldot\l30116\Work Order 13018 - IL50SWH	wy\Mech\LDT_130116_01.SHT	DRAWN - LRR	REVISED -	STATE OF ILLINOIS		ROADWAY LIGHTING DETAILS	350	461TS-2(13)	соок	42	17A
		PLOT SCALE = 40'	CHECKED - AJD	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	NO. 60)x25
		PLOT DATE = 1/22/2014	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. RC	OAD DIST. NO. ILLINOIS	FED. AID PROJECT		

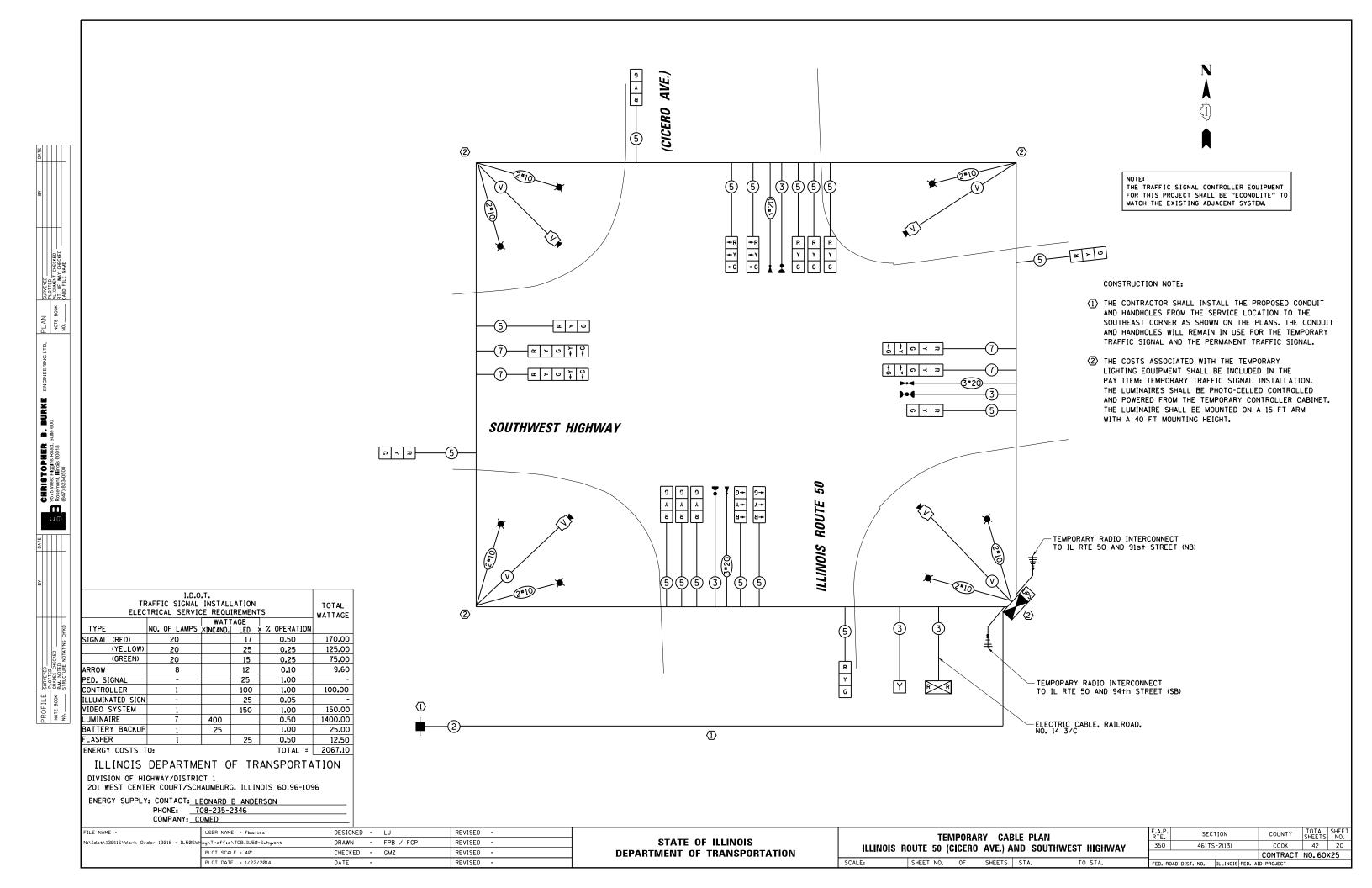




SHEET NO. OF SHEETS STA.

PLOT DATE = 12/11/2013

REVISED -



TEMPORARY SEQUENCE OF OPERATION

MOVEMENT N				1						6 1	→		↑ 5						6 † †					ر ہ	√_3			+	-8 -3			7 <u>-</u> 4 -				4	-	F
PHASE				1+	5					1+6	3		2 +	+ 5					2+6	3				3	+ 7			3	+ 8			4	+ 7			4 + 8	8	
INTERVAL	1	2A	2B	3A	T :	3B 4	\	4B	5	6A	6B	-	7 8,	A	8B	9	10A	10B	11A	11B	12A	12B	13	14	15	16	17	18A	18B	19	20	21A	21B	22	23	24A	24B	5 S
CHANGE TO		1	1+6		2+5		2+6	5		:	2+6			2+6			1	l+6	:	2+5	3 3	+5 3+7 3+8 3+8		1+5 1+6 2+5 2+6 4+8		4+7		1 2	+5 +6 2+5 2+6	4+8		1 2	+5 +6 !+5	4+8		2	1+5 1+6 2+5 2+6	H
IL ROUTE 50 (CICERO AVENUE) N/B NEAR RIGHT AND 3 FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R		R F		R	R	R	R	(G G	;	G	G	Υ	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL ROUTE 50 (CICERO AVENUE) 2 FAR LEFT SPAN WIRE SIGNALS	← G	← Y	← F	₹ 🛨	€ 4	– G ←	Y	← R	← R	← F	4 F	₹ 🛧	-G ←	•Y •	⊢ R	← R	← R	← R	← R	←R	← R	←R	R ←R	← R	← R	← R	← R	← R	← R	← F	R ← R	← R	← R	← R	← R	← R	₹ 🛖 F	₹ R
IL ROUTE 50 (CICERO AVENUE) S/B NEAR RIGHT AND 3 FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R		R F		R	G	G	G	F	R F	₹	R	G	G	G	Υ	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL ROUTE 50 (CICERO AVENUE) S/B 2 FAR LEFT SPAN WIRE SIGNALS	← G	← G	4 0	€\	′ •	- R ←	Y	← R	← G	← Y	4 F	२ 🛧	-R ←	•R •	← R	←R	← R	← R	R ← R	← R	← R	← R	← R	← R	← R	← F	R ← R	← R	← R	← R	← R	← F	₹ 🛖 F	₹ ← R				
SOUTHWEST HIGHWAY E/B NEAR AND FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R		R F		R	R	R	R	F	R F	۲	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	G	Y	R	R
SOUTHWEST HIGHWAY E/B 2 FAR LEFT SPAN WIRE SIGNALS	R	R	R	R		R F		R	R	R	R	F	R F	۲	R	R	R	R	R	R	R	R	R ← G	R ← Y	R ← Y	R ← G	R	R	R	R	G ← G	Υ	R	G ← Y	G	Υ	R	R
SOUTHWEST HIGHWAY W/B NEAR AND FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R		R F		R	R	R	R	F	R F	۲	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	R	R	R	R	G	Υ	R	R
SOUTHWEST HIGHWAY W/B 2 FAR LEFT SPAN WIRE SIGNALS	R	R	R	R		R F		R	R	R	R	F	R F	۲	R	R	R	R	R	R	R	R	R ← G	R ← Y	R ← G	R ← Y	G ← G	Υ	R	G ← Y	, R	R	R	R	G	Y	R	R
IL ROUTE 50 (CICERO AVENUE) YELLOW FLASHER	FL Y	FL Y	FL Y	FL Y		FL F Y Y	-	FL Y	FL Y	FL Y	FL Y	DA	RK DA	RK D	ARK	DARK	FL Y	FL Y	DARI	K DARK	, FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y

PHASE 2+6 SHALL BE PLACED ON RECALL

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TEMPORARY RAILROAD PREEMPTION SEQUENCE OF OPERATION

							_								PREEMPTOR	PREE	MPTOR	PREE	MPTOR	PREEMPTOR]			
															NUMBER 3	NUM	BER 4	NUM	BER 5	NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF		1		5	7		9	13		17	,	20		23							1			
OPERATION INTERVAL NUMBER		1		J	'		9	13		17	4	20	4	23										
CHANGE FROM EMERGENCY VEHICLE PREEMPTION															2		3		4					
SEQUENCE OF OPERATION INTERVAL NUMBER															-		3		4					
RAILROAD PREEMPTION SEQUENCE OF	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	11.	1M	1N	1P	1Q	1R	18	1T	1U	2	3	4	5	CLEAR
OPERATION INTERVAL NUMBER	'^	''	'	''	'-	''	10	""	13	"	'-	1101	111	"	10	"	'3	l ''	'0	_		7		TO
CHANGE TO RAILROAD PREEMPTION	1B	2	1D	2	2	1G	2	2	1K	2	1M	2	1P	2	2	18	2	1U	2	3	4	5		NORMAL
SEQUENCE OF OPERATION INTERVAL NUMBER	"	-	''	-	-	''	~	2	l IX	~	IIIVI	~	15	~	2	13	^	10	-]	~	١		SEQUENCE
IL ROUTE 50 (CICERO AVENUE) N/B	R	R	R	R	G	G	G	R	R	R	R	R	R	R	G	R	R	R	R	G	V	R	R	Λ
NEAR RIGHT AND 3 FAR RIGHT SPAN WIRE SIGNALS	'`	1	1	1	١		٥	11	1	'		'`	'`	1		'\	'\	18		9	'	'`	11	Δ
IL ROUTE 50 (CICERO AVENUE) N/B	← G	4 G	← R	← R	← G	← R	← R	⊸ ₽	← R	← R	←R	_ ₽	← R	⊿ .R	← G	← R	← R	⊿ -₽	← R	← G	← Y	⊿ .R	← R	Λ
2 FAR LEFT SPAN WIRE SIGNALS	1	1	1	1	10	_ · ·	1	-	1	-10	1	1	1	1	-0	11	-11	— IX	1	— 5	-	1	-11	Δ
IL ROUTE 50 (CICERO AVENUE) S/B	R	R	V	R	R	V	R	R	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	R	Λ
NEAR RIGHT AND 3 FAR RIGHT SPAN WIRE SIGNALS		'`		1	_ '`		_ '`	11	- '`	_ '`	'`	_ '`	- '`	- '`	1		- '`	- ' \		1	- ' \	1	- 11	Δ
IL ROUTE 50 (CICERO AVENUE) S/B	← Y	4 -D	← Y	← R	← R		← R	4 .0	← R	← R	← R	_ D	← R	_ D	← R	← Y	p	← R	_ D	← R	D	← R	4 -D	_ A
2 FAR LEFT SPAN WIRE SIGNALS	— ·	— IX	-	— IX	-11	_ · ·	— IX	— IV	— IX	— IX	— IX	- IX	— IX	— IX	— IX		- IX	— IX	— IX	- '\	— IX	— IX	-11	$\mid \Delta \mid$
SOUTHWEST HIGHWAY E/B	R	R	R	R	R	R	R	R	R	R	V	R	V	R	R	R	R	V	R	R	R	R	G	٨
NEAR AND FAR RIGHT SPAN WIRE SIGNALS	'	'			'\	'\	'		'\	'	'	'\	' '	'\		'\	'\	'			'`	'\	١	$\mid \Delta \mid$
SOUTHWEST HIGHWAY E/B	R	R	R	R	R	R	R	R	R	R	V	R	\ \ \	R	R	R	R		R	R	R	R	G	Λ.
2 FAR LEFT SPAN WIRE SIGNALS						"		←Y			'		'			^		'					١٩	$\mid \Delta \mid$
SOUTHWEST HIGHWAY W/B	R	R	R	R	R	R	R	R	V	R	R	R	V	R	R	R	R	V	R	R	R	R	G	
NEAR AND FAR RIGHT SPAN WIRE SIGNALS	"	"	I K		"	"	"	K	1	K	"	"	'	"		"	"	'	"		"	"	٦	$\mid \Delta \mid$
SOUTHWEST HIGHWAY W/B	R	R	R	R	R	R	R	R	V	R	R	R	V	R	R	R	R	V	R	R	R	R	G	Α
2 FAR LEFT SPAN WIRE SIGNALS	"	"	^	^	"	"	\ \ \	←Y	"	"	"	^	'	^	"	"	^	"	^	^	rx	1	٦	$\mid \Delta \mid$
IL ROUTE 50 (CICERO AVENUE) N/B	FL	FL	FL	FL	DARK	DARK	DARK	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	DARK	FL	FL	FL	Λ
YELLOW FLASHER	Y	Y	Υ	Y	DAIN	DARK	DAIN	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Υ	Y	DAKK	Υ	Υ	Υ	Δ
																							HOLD	

RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

FILE NAME =	USER NAME = ejensen	DESIGNED -	FN	REVISED -
N:\Idot\130116\Work Order 13018 - IL50SWH	wy\Traffic\TMP_SEQ_IL50-Swhy_01.sht	DRAWN -	FPB / FCP	REVISED -
	PLOT SCALE = 2'	CHECKED -	GMZ	REVISED -
	PLOT DATE = 12/11/2013	DATE -		REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

					TION AND	F.A.P. RTE.	SEC.	TION		(
					NCE OF OPERATION WEST HIGHWAY	350	461TS	-2(13)		-
										CO
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RC	AD DIST. NO.	ILL INO IS F	ED. AI	D PR

FED.	ROAD	DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		
						Т	CONTRACT	NO. 60	K25
350			461TS	-2(13)		Т	соок	42	21
RTE.			SEC	TION			COUNTY	SHEETS	NO.

BY DATE							
	SURVEYED	PLOTTED	ALIGNMENT CHECKED	RT, OF WAY CHECKED	CADD FILE NAME		
	PLAN		NOTE BOOK	1	ا اي		
	CHAIGHOPHER B. BORKE ENGINEERING LTD.	0675 Wast Harden Doad Suite 600	Total State of the	Kosemont, Illinois 60018	(847) 823-0500		
DATE							
ВҮ							
			GRADES CHECKED		STRUCTURE NOTATINS CHIKD	•	

FILE NAME = N:\Idot\130116\Work

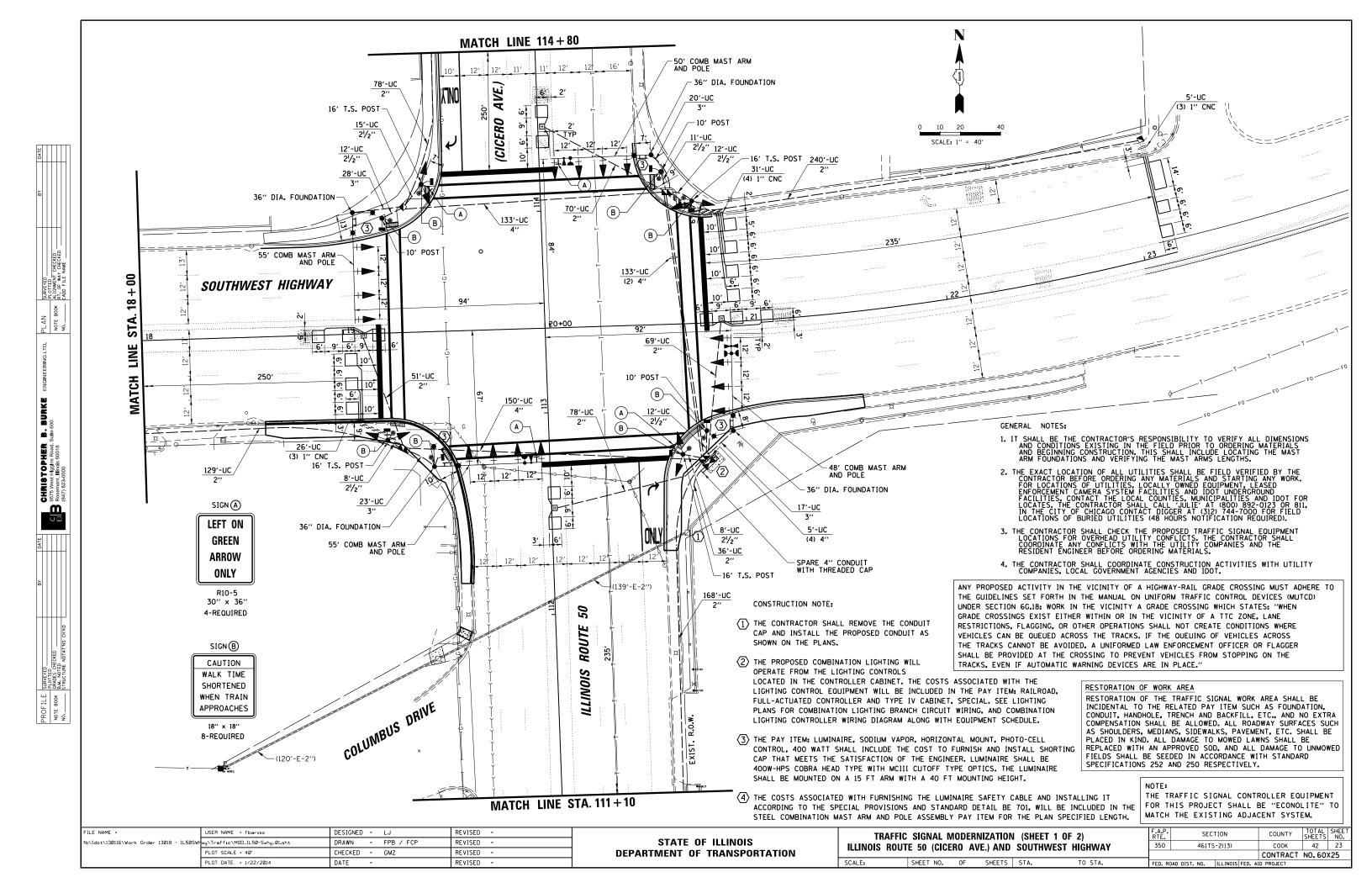
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

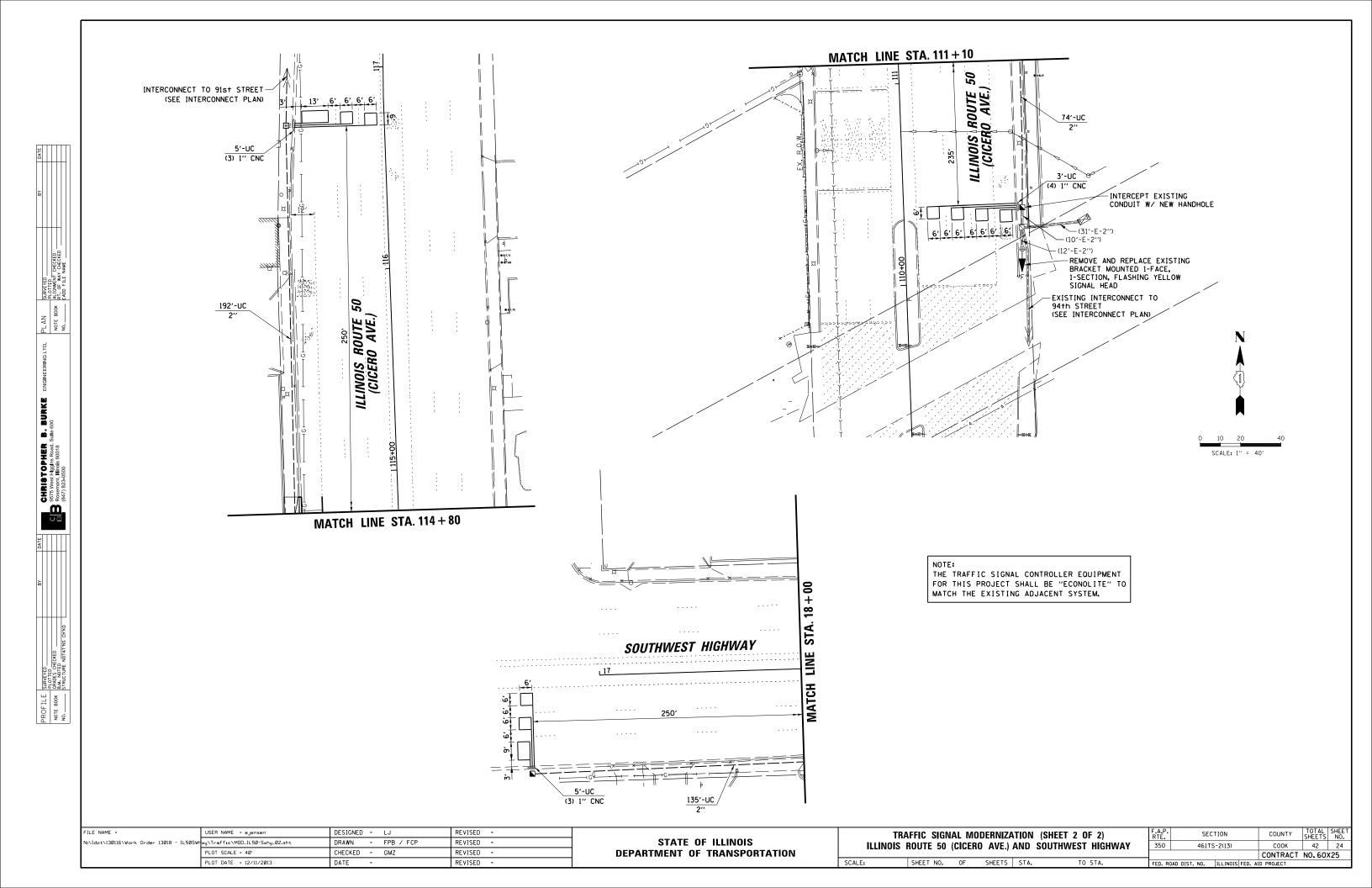
TEMI CIVART EMERCENCY VEHICLET	\ <u></u>				ΨΟ.			<u> </u>			<u>-</u>																			PREEMPTOR	DREEMPTOR	PREEMPTOR	1
																															NUMBER 4		
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		1		1	I		5	5	7		7	,	9	,	9	,	9	13	1	7	17	2	20	20		23	23				
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1,	A 11	В	IC	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	18	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	2	3	4	CLEAR TO
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	11	В 2	2 .	1D	3	1F	4	1H	2 OR 4	3	2	1M	3 OR 4	1P	2	1R	3	1T	4	2, 3 OR 4	1W	2 OR 3	4	1Z	2 OR 3	4	1CC	2 OR 3	4				NORMAL SEQUENC
IL ROUTE 50 (CICERO AVENUE) N/B NEAR RIGHT AND 3 FAR RIGHT SPAN WIRE SIGNALS	F	₹ F	2	R	R	R	R	R	R	R	G	Υ	R	G	G	Υ	R	Υ	R	R	R	R	R	R	R	R	R	R	R	G	R	R	♦
IL ROUTE 50 (CICERO AVENUE) N/B 2 FAR LEFT SPAN WIRE SIGNALS	+	·G 🗲	·G 🖣	-Y -	← R	← Y	← R	← R	← R	← R	← G	← Y	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← G	← R	← R	\Q
IL ROUTE 50 (CICERO AVENUE) S/B NEAR RIGHT AND 3 FAR RIGHT SPAN WIRE SIGNALS	F	R F	3	R	R	R	R	Y	R	G	R	R	R	Υ	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	G	R	\Q
IL ROUTE 50 (CICERO AVENUE) S/B 2 FAR LEFT SPAN WIRE SIGNALS	+	Y 🗲	·R 🖣	- G ◀	← G	← Y	← R	←Y	← R	← G	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← G	← R	\Q
SOUTHWEST HIGHWAY E/B NEAR AND FAR RIGHT SPAN WIRE SIGNALS	F	R F	3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Υ	R	G	Υ	R	G	R	R	G	\Q
SOUTHWEST HIGHWAY E/B 2 FAR LEFT SPAN WIRE SIGNALS	F	R F	3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ← Y	R	R	R	Υ	R	G ← Y	Υ	R	G	R	R	G	\lambda
SOUTHWEST HIGHWAY W/B NEAR AND FAR RIGHT SPAN WIRE SIGNALS	F	R F	3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Υ	R	G	R	R	R	Υ	R	G	R	R	G	\langle
SOUTHWEST HIGHWAY W/B 2 FAR LEFT SPAN WIRE SIGNALS	F	R F	3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ← Y	Υ	R	G ← Y	R	R	R	Υ	R	G	R	R	G	\lambda
IL ROUTE 50 (CICERO AVENUE) N/B YELLOW FLASHER	F Y			FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	DARK	FL Y	FL Y	DARK	DARK	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	DARK	FL Y	FL Y	\Q

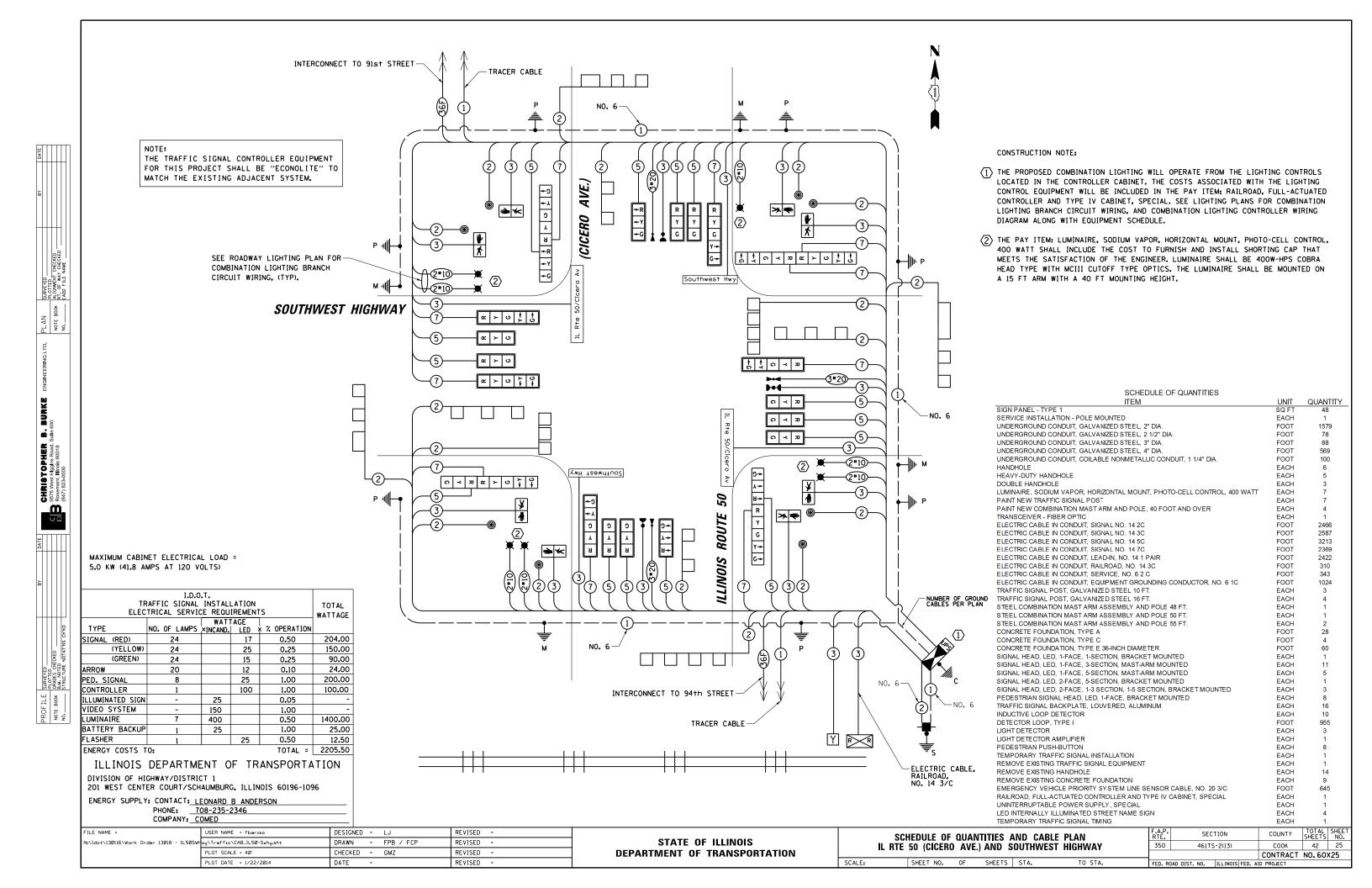
EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3 OR 4 IS TERMINATED.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT
FOR THIS PROJECT SHALL BE "ECONOLITE" TO
MATCH THE EXISTING ADJACENT SYSTEM.

	USER NAME = ejensen	DESIGNED - FN	REVISED -		TEMBOI	RARY EMERG	ENICV	VEHICLI	E PREEMI	PTION SEQUENCE	F.A.P.	SECTION	COUNTY	TOTAL SHEET
ork Order 13018 - IL50SWH	wy\Traffic\TMP_SEQ_IL50-Swhy_02.sht	DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS						NEST HIGHWAY	350	461TS-2(13)	соок	42 22
	PLOT SCALE = 2'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 110	DIE 30 (CICE	LIIU A	VL./ AIVE	3001111	WEST IIIUIIWAT			CONTRACT	NO. 60X25
	PLOT DATE = 12/11/2013	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A		







SEQUENCE OF OPERATION

MOVEMENT N			+		<u>† or</u>				P 6) 1 , t c	<u>D</u> L		↑ 5 2	P				P P	ţ	†	P P			OI ∢ 7 -	۽ ورا	OL 3		P	Ţ oi	3	— P	Ρ-	7	DLJ•		P	P	4	- 8 	—Р	F L
PHASE				1 +	5				1 +	- 6			2 +	5					2 +	6					3 + 7				3 +	8				4 + 7				4 +	- 8		_
INTERVAL	1		2A 2B	ЗА	. 3B	4A	4B	5	6	7A	7B	8	9	10A	10B	11	12	13A	13B	14A	14B	15A	15B	16	17	18 1	9 20	21	22A	22B	23	24	25	26A	26B	27	28	29	30A	30B	<u> </u>
CHANGE TO			1+6		2+5	2	!+6	θ/	θ	2+6	- 1	Э/	θ/	2+	-6			1-	+6	2+5	5	1+5 3+7 3+8 4+7 4+8	7 3		1+5 1+6 2+5 2+6 4+8	i+8 4	+7 Θ	θ	´ :	1+5 1+6 2+5 2+6	4+8	θ	θ	1 2	+5 +6 +5 +6	4+8		$\sqrt{}$	1+5 1+6 2+5 2+6	5 6 H	Н
IL ROUTE 50 (CICERO AVENUE) N/B NEAR AND FAR RIGHT SIGNALS	R		RR	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	G	G	Υ	R	R 3 → Y	R ′ → G	R → Y	R → G-	R → G •		R	R Y =	R	R	R	R	R	R	R	R	R F	R
IL ROUTE 50 (CICERO AVENUE) N/B MID MAST ARM SIGNALS	R		R R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Υ	R	G	G	Υ	R	R	R	R	R R	R	R	R	R	R	R	R	R	R	R	R	R	R F	R
IL ROUTE 50 (CICERO AVENUE) N/B END MAST ARM AND FAR LEFT SIGNALS	-	G ◀	⊢ Y ← R	40	G ← G	← Y	← R	← R	← R	← R •	← R	← G	← G	←Y	← R	← R	← R	← R	← R	← R ·	← R	← R ·	← R ◆	← R •	⊢ R ◀	- R ◆	-R ←	R ←	R ← F	₹ 🛖 ह	₹ ← F	₹ 🛖 F	₹ ← R	← R	← R	← R	← R	← R	← R ·	← R ◆	- R
IL ROUTE 50 (CICERO AVENUE) S/B NEAR AND FAR RIGHT SIGNALS	R		R R	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	G	Υ	R	Υ	RI			- 1	₹ R	R	R	R	R	R G =		R Y →	R	R Y →	R	R	R	R F	R
IL ROUTE 50 (CICERO AVENUE) S/B MID MAST ARM SIGNALS	R		R R	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	G	Υ	R	Υ	R	R	R	R	R R	R	R	R	R	R	R	R	R	R	R	R	R	R F	R
IL ROUTE 50 (CICERO AVENUE) S/B END MAST ARM AND FAR LEFT SIGNALS	-	G ◀	⊢ G ← G	4)	Y ← R	← Y	← R	← G	← G	← Y	← R •	← R	← R	← R ·	← R •	← R ·	← R	← R •	⊢ R ◀	- R ◆	-R ←	R ←	R ← F	₹ 🕳 ह	₹ ← F	₹ 🛖 F	₹ ← R	← R	← R	← R	← R	← R	← R •	← R ◆	-R						
SOUTHWEST HIGHWAY E/B NEAR RIGHT, FAR RIGHT AND MID MAST ARM SIGNALS	R		R R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R R	R	R	R	R	G	G	Υ	R	G	G	G	Υ	R F	R
SOUTHWEST HIGHWAY E/B END MAST ARM AND FAR LEFT SIGNALS	R		R R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			R ►Y ◀		₹ R	R	R	R	R	G ← G		Υ	R	G ← Y	G	G	Υ	R F	R
SOUTHWEST HIGHWAY W/B NEAR AND FAR RIGHT MAST ARM SIGNALS	R G■		R R S→ G→	R Y =	R	R Y →	R	R G →	R G →	R Y →	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	₹ G	G	Y	R	G	R	R	R	R	R	G	G	Υ	R F	R
SOUTHWEST HIGHWAY W/B MID MAST ARM SIGNALS	R		R R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R G	G	Y	R	G	R	R	R	R	R	G	G	Υ	R F	R
SOUTHWEST HIGHWAY W/B END MAST ARM AND FAR LEFT SIGNALS	R		R R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R ⊨ G ◀	R ►Y ◀	R ■G ←	₹ G •Y ← •		I Y	R	G ◆\	R	R	R	R	R	G	G	Υ	R F	R
IL ROUTE 50 (CICERO AVENUE) N/B YELLOW FLASHER	FL Y		FL FL Y Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y		FL Y	ARK [DARK	DARK	DARK	DARK	DARK	FL Y	FL Y	DARK	DARK	FL Y	FL Y	FL Y	FL I	FL F	L FL Y Y		. FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y		FL F Y Y	FL Y
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY ON EAST SIDE OF IL ROUTE 50 (CICERO AVENUE)	Н		н н	Н	Н	Н	н	Н	Н	Н	н	* P >	**FH	Н	н	* P	**FH	н	Н	Н	Н	н	Н	Н	н	н	н н	Н	Н	Н	н	н	н	Н	Н	н	Н	Н	н	Н	 D
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY ON WEST SIDE OF IL ROUTE 50 (CICERO AVENUE)	Н		н н	Н	Н	Н	н	* P	**FH	Н	н	Н	Н	н	Н	* P	**FH	н	Н	Н	Н	н	Н	Н	н	н	н н	Н	Н	Н	н	н	н	н	Н	н	Н	Н	н	Н	Α
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUE ON SOUTH SIDE OF SOUTHWEST HIGHWAY) н		н н	Н	Н	Н	н	Н	Н	Н	н	н	Н	Н	Н	Н	н	н	Н	Н	Н	н	Н	Н	н	н	н н	Н	Н	Н	н	* P	**F	н	Н	н	*P	**FH	н	Н	R K
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUE ON NORTH SIDE OF SOUTHWEST HIGHWAY) H		н н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	-	**F	нн	Н	Н	Н	Н	Н	Н	Н	* P	**FH	Н	Н	

PHASE 2+6 SHALL BE PLACED ON RECALL

- * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- ** FLASHING "T IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.
- HIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.
- P = ILLUMINATED PERSON = WALK
- FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RAILROAD PREEMPTION SEQUENCE OF OPERATION

																DDEEMDTOD		MOTOD	IDDEE	MOTOD	PREEMPTOR	1			
CHANGE FROM NORMAL SEQUENCE OF																NUMBER 3	NUM	BER 4	NUM	BER 5	NUMBER 2				
OPERATION INTERVAL NUMBER		1			5	8	1	1	16	2	.0	2	24	2	28										
CHANGE FROM EMERGENCY VEHICLE PREEMPTION																					1				
SEQUENCE OF OPERATION INTERVAL NUMBER																2	:	3		4					
RAILROAD PREEMPTION SEQUENCE OF		_									1		_		_										
OPERATION INTERVAL NUMBER	'	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	18	1T	1U	2	3	4	5	CLEAR
CHANGE TO RAILROAD PREEMPTION		_																							TO NORMAL
SEQUENCE OF OPERATION INTERVAL NUMBER	-	1B	2	1D	2	2	1G	2	2	1K	2	1M	2	1P	2	2	1S	2	1U	2	3	4	5		SEQUENCE
	В	-							_	_															OLGOLITOL
NEAR AND FAR RIGHT SIGNALS	١ ٢	R	R	R	R	G	G	G	R	R	R	R	R	R	R	G	R	R	R	R	G	Y	R	R	Δ
	_	_							Y →	Y →															
	В	R	R	R	R	G	G	G	R	R	R	R	R	R	R	G	R	R	R	R	G	Y	R	R	Δ
MID MAST ARM SIGNALS		_																							
,	′B ◀	_ G	← G	← R	← R	← G	← R	← R	← R	← R	← R	← R	← R	← R	← R	← G	← R	← R	← R	← R	← G	← Y	← R	← R	Δ
END MAST ARM AND FAR LEFT SIGNALS				-		`				` '	, ,		1		1	_ `	1	, ,	1	, ,	,	`			
	/B	R I	R	Υ	R	R	Υ	R	R	R	R	R	R	R	R	R	Ιγ	R	R	R	R	R	R	R	Δ
NEAR AND FAR RIGHT SIGNALS		``		·	.,	.,	·	.,	Y →	'''	.,,	Y →	· ``				ı '	.,,		.,		.,	''	.,	Δ
IL ROUTE 50 (CICERO AVENUE)	/B	R I	R	Υ	R	R	Υ	R	R	R	R	R	R	R	R	R	V .	R	R	R	R	R	R	R	Δ
MID MAST ARM SIGNALS		' '	- 1 1		11	- 1		- '`	- 1 1	- 1	11	- ' '	- 11	1	- 11		'	_ '`	- 1	_ '`	10	- 1 \	1		Δ
IL ROUTE 50 (CICERO AVENUE)	′B 📗	_Y	← R	← Y	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← Y	⊸ R	← R	← R	← R	← R	← R	← R	Λ
END MAST ARM AND FAR LEFT SIGNALS		- '	— ''	_	— "		— ''	— ''	—			— ''	— ''	— ''	— ''	_ · ·	Τ.	—.,		— .,	— "	— "	— ''	1,	Δ
SOUTHWEST HIGHWAY E	B	R	R	R	R	R	R	R	R	R	R	Υ	R	v	R	R	R	R	v	R	R	R	R	G	Α
NEAR RIGHT, FAR RIGHT AND MID MAST ARM SIGNALS		n	К	K	K	K	K	"	"	K	K	'	K	'	K	"	K	"	,	"	, r	K	"	G	Δ
SOUTHWEST HIGHWAY E	/B	R	R	R	R	R	1	R	R	R	R	Y	R	v	R	R	R	R	v	R	R	R	R	G	A
END MAST ARM AND FAR LEFT SIGNALS		к	ĸ	ĸ	K	K	R	K	← Y	K	K	*	K	Y	K	"	K	K	*	K	K	K	K	G	Δ
SOUTHWEST HIGHWAY W	/B	R		R	R	_	_			Y	_			V			_		V	_				_	
NEAR AND FAR RIGHT MAST ARM SIGNALS	ΙY	→	R	Y →	K	R	R	R	R	ľ	R	R	R	Y	R	R	R	R	ľ	R	R	R	R	G	Δ
SOUTHWEST HIGHWAY W	/B		_		_			_	_		_	_		.,	_	_	_				_	_	_		
MID MAST ARM SIGNALS	-	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	Y	R	R	R	R	G	Δ
	//B								R																
END MAST ARM AND FAR LEFT SIGNALS	,,,	R	R	R	R	R	R	R	← Y	Y	R	R	R	Y	R	R	R	R	Y	R	R	R	R	G	Δ
	В	FL	FL	FL	FL				FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL		FL	FL	FL	
YELLOW FLASHER	- 1	γ	Y	Y	ν	DARK	DARK	DARK	Y	Y	Y	l v	Y	'_	Y	\ \v	V .	Υ	Y	Ϋ́	DARK	Y	Y	Y	Δ
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY	_	•							<u> </u>	<u> </u>		-	<u> </u>	<u> </u>	· ·	<u> </u>		<u> </u>		<u> </u>		· ·			
ON EAST SIDE OF IL ROUTE 50 (CICERO AVENUE)		н	Н	Н	Н	FH	FH	н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Δ
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY		_																							
		н	Н	FH	н	н	FH	н	н	Н	н	Н	н	н	н	н	н	Н	н	Н	н	н	н	н	Δ
ON WEST SIDE OF IL ROUTE 50 (CICERO AVENUE)		_																							
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVEN	UE)	н	н	Н	н	н	Н	н	н	н	н	FH	Н	FH	Н	н	н	Н	н	Н	н	н	н	Н	Δ
ON SOUTH SIDE OF SOUTHWEST HIGHWAY		_																							
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVEN	UE)	нΙ	н	Н	Н	н	Н	Н	Ιн	FH	Н	Ιн	н	FH	н	Ιн	Н	Н	Н	Н	н н	Н	Н	н	Δ
ON NORTH SIDE OF SOUTHWEST HIGHWAY								L	L	L	L	L	L	L	L		L	L.,	L	L.,					

RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

FILE NAME =	USER NAME = ejensen	DESIGNED	-	FN	REVISED -
N:\[dot\ 30 16\Work Order 30 18 - IL50SWH	wy\Traffic\SEO_IL50-Swhy_01.sht	DRAWN	-	FPB / FCP	REVISED -
	PLOT SCALE = 2'	CHECKED	-	GMZ	REVISED -
	PLOT DATE = 12/11/2013	DATE	-		REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DAILDO		JENCE OF	· · - · · · ·	TION AND NCE OF OPE	DATION	
				SOUTHWEST		
SCALE:	SHEET NO	O. OF	SHEETS	STA.	TO STA.	

FED. RO	DAD DIST	. NO.	ILLINOIS	FED. A	ID PROJECT		
					CONTRACT	NO. 60	X25
350		461TS	-2(13)		соок	42	26
F.A.P. RTE.		SEC	TION		COUNTY	TOTAL SHEETS	SHE

CHRISTOPHER B. BURKE ENGINEERING LTD. G 9575 Wast Highles Road, Suite 600 FIG. 6947) 823-0500 CHRISTOPHER B. BURKE ENGINEERING LTD. NOTE 8000 NOTE 80	DATE			П	
CHRISTOPHER B. BURKE ENGINEERING LTD. PLAN STANSE STANSE FOOD ROSE STANSE FOOD ROSE FO					
CHRISTOPHER B. BURKE ENGINEERING LTD. PLAN STANSE STANSE FOOD ROSE STANSE FOOD ROSE FO		0.	(ED		
CHRISTOPHER B. BURKE ENGINEERING LTD. PLAN STANSE STANSE FOOD ROSE STANSE FOOD ROSE FO	SURVEYED	PLOTTED ALIGNMENT CHECKE	RT. OF WAY CHECK		
CHRISTOPHER B. BURKE ENGINEERING LTD. Scessmon! Illinois 60018 (847) 823-0500		NOTE BOOK	NO.		
CHRISTOPHER B. BURKE 957 STATE ASSESSION OF STATE OF STAT	ENGINEERING LTD.				
	CHRISTOPHER B. BURKE	9575 West Higgins Road, Sulte 600	(847) 823-0500		
	DAT				
DA	ВУ				
BY BY			Ш		

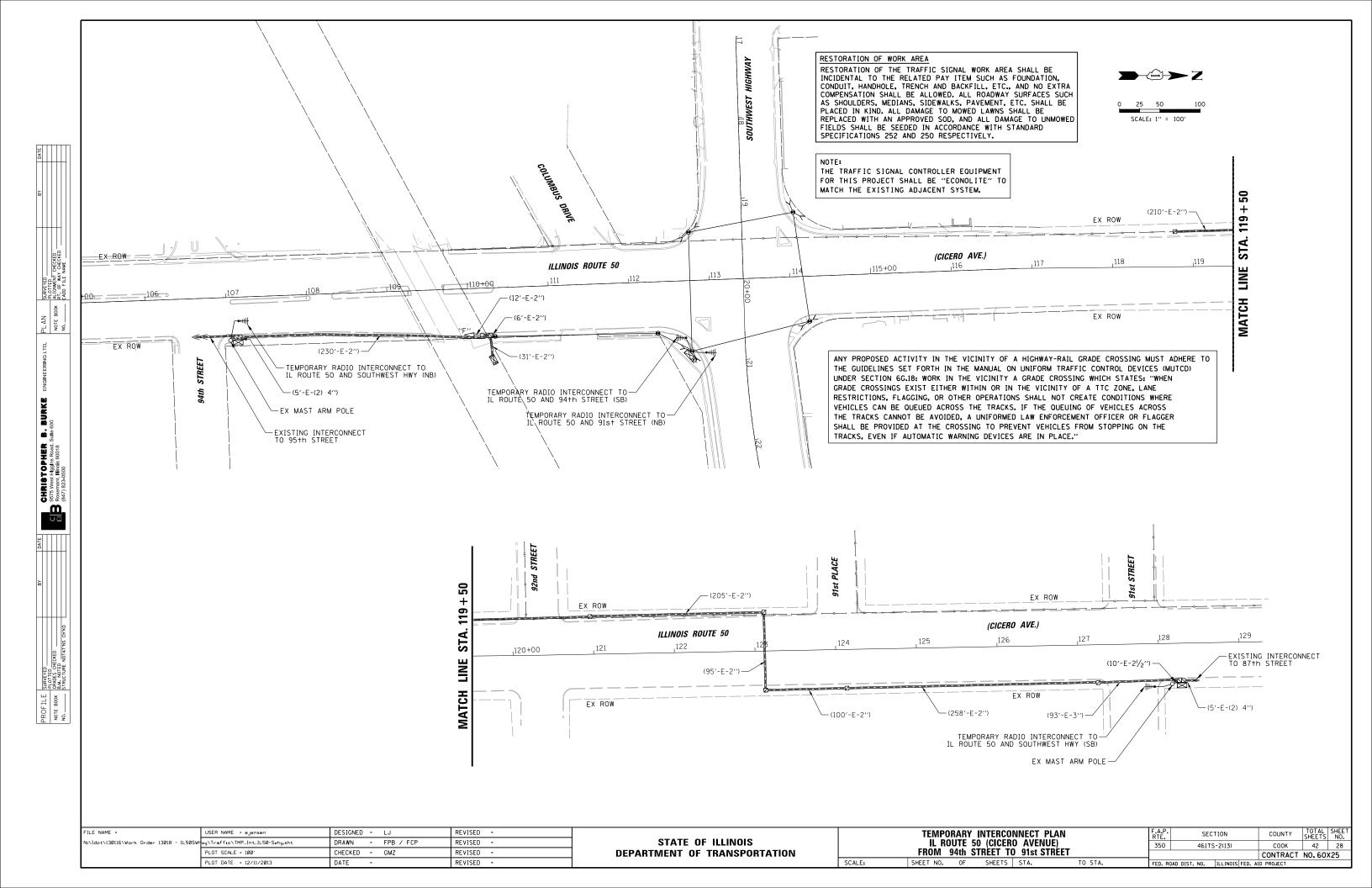
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

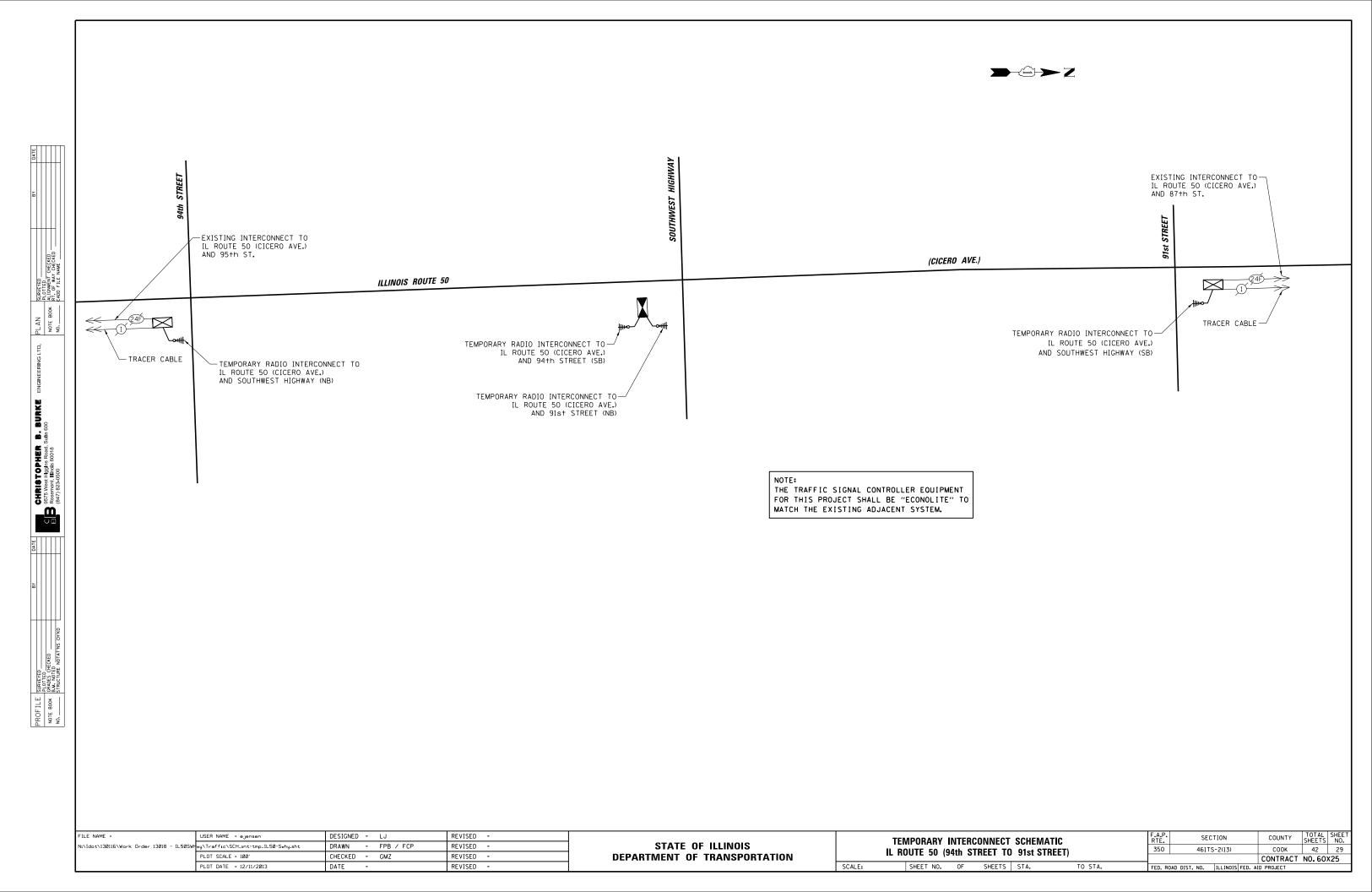
EMERGENCY VEHICLE PREEMPTION SEQU	LINC	LOF	OFI	<u>-NAI</u>	ION																														PREEMPT	OR PREEMPT	OR PREEMPTO	R
																																			NUMBER	3 NUMBER	R 4 NUMBER 5	5
CHANGE FROM NORMAL SEQUENCE OF				4		4				_	8				44			44		44		40		20		20		24		Ι	24		20	200				
OPERATION INTERVAL NUMBER		1		1		1	5			·	°	ŏ			11			11		11		16		20		20		24		'	24		28	28				
EMERGENCY VEHICLE PREEMPTION SEQUENCE	1.4	1B	1C	1D	1F	1F	1G 1F	1 J	1K	11	1M 1N	1P	10	1R	1S	1T	1U -	11/	W 12	X 1Y	17	1AA	1BB	1CC	100	1EE 1	EE 10	3 1HF	1.1.1	1KK	11.1	1MM	1NN 1P	P 100		2		CLEAR
OF OPERATION INTERVAL NUMBER	14	` 'B	'	''	'-	"	יין טי	ין י	''	IL.	IIVI IIN	"	וען	ır	13	''	10	''	1 VV	^ ''	'^	IAA	IDD		ן שטו	'EE '	יטין די	3 INI	1 133	IKK	ILL	IIVIIVI	ININ IF	ا الرار	۲ ۲	3	4	ТО
CHANGE TO EMERGENCY VEHICLE PREEMPTION	1B	2	1D	2	1F	1	1H 1.	J 2 OR	1L	2	2 1P	1Q	3 OR	1S	1T	2	1V 1	1W	3 1	Y 1Z	1	2, 3 OR	1CC	1DD	2 OR	1FF	4 1H	1.1.1	2 OR	1LL	4	1NN	1PP OF					NORMAL
SEQUENCE OF OPERATION INTERVAL NUMBER	"	' '	''	3	"	+	- "" ") OR 4	"-	3	2 15	الا	4	13	''	^	' '	'''	3 1	1 12	+	4	100	ן טטו	3	IFF	4 '''	1 133	3	''	4	IININ	1 3	` "				SEQUENC
IL ROUTE 50 (CICERO AVENUE) N/B	R	R	R	Ь	R	R	R R	R	R	R	G G	V	R	G	G	G	G	v	R G	Y	Ь	R	R	R	R		R b	R	R	R	R	R	R R	ь	G	R	R	\Diamond
NEAR AND FAR RIGHT SIGNALS		'\	'	1	'\		1 1	1	1	1	0 0	'	18	١	0	١		'		' '		Y →	G →	Y →	1	G → Y	→ '`	1	'`	'\	1	1		' '		IX.	1	
IL ROUTE 50 (CICERO AVENUE) N/B	В	Ь	R	Ь	R	Ь	D D	В	R	В	G G	V	ь	G	G	G	G	v	R G	` v	Ь	ь	R	۵	R	ь	R R	Ь	В	R	R	ь	R R	ь	G	В	В	\Diamond
MID MAST ARM SIGNALS	'`			1	'				1	IX.	ا ا	'	1	١	G	١		'	K C	' '		IX	IX.		IX	1	\			'\	1	'\		, ,		IX.	I N	
IL ROUTE 50 (CICERO AVENUE) N/B	4	G ← G	;	← R	v	∡ R	4 R 4	R AR	← R	← R	4 6 4 6	4 -Y	∡ R	∡ R	ا	← R	⊸ R .	- R -	⊢ R ←	R ← R	∡ R	← R	₽	← R	← R ·	← R •	-R ←	R 4 −F	2 4 R	← R	₽	← R ·	← R ←	R 4F	R ← G	≠ R	← R	\Diamond
END MAST ARM AND FAR LEFT SIGNALS		0 +0		-10					-11	-10	-0 -0		-10	-11	-11	-10		-10	-10		-10	-11	4 -10	-10	-11	-11	-1.	` -	,	-11	-10	-10	-11		`	— IX		
IL ROUTE 50 (CICERO AVENUE) S/B	l R	l R	l R	R	l R	R	G Y	l R	G	G	RR	R	R	G	Υ	R	G	G	G G	Y	l R	R	R	R	R	R	R R		l R	R		R	RR	R	l R	G	R	
NEAR AND FAR RIGHT SIGNALS			ļ ·``	.``	_ · `	'`						ļ ·`	- `		·					<u> </u>	.,	Y →			.,	.`	'` G-	► Y →	▶ '`	G→	Y →			` '`			.,	
IL ROUTE 50 (CICERO AVENUE) S/B	l R	l R	l R	R	l R	R	G Y	l R	G	G	RR	R	R	G	Υ	R	G	G	G G	Y	l R	R	R	R	R	R	RR	l R	l R	l R	R	R	RR	R	l R	G	R	
MID MAST ARM SIGNALS					_ ·`	_ '`				Ŭ		<u> </u>	'`			'`			<u> </u>	<u> </u>	.,	- ' \	.,	.,	.,	.,				- ' '	_ ··	- ' \		` '`				
IL ROUTE 50 (CICERO AVENUE) S/B	_ `	y l ₄ R	2 4-6	- G	← Y	← R	4 G 4	y I ← R	← G	← G	← R ← F	. Land	← R 4	← R ∢	⊢ R ←	R 🕳R	← R	← R	♣R	← R	♣R .	←R -	-R -	R	R ←R	← R	← R	← R .	← R ←	R ←F	R ← R	← G	← R					
END MAST ARM AND FAR LEFT SIGNALS	`	1 1 1	` ` `	10	ļ · ·	1	` ` `		1, 0	` `	1	1 1	```	` '`	1	1		• • •	```		1	1	7	` '`	` '`	• • •		` ` `	` ' ' '	1	1	```			` ` ` ` `	, ,	• • • •	V
SOUTHWEST HIGHWAY E/B	l R	l R	l R	R	l R	R	RR	R	l R	R	RR	R	R	R	R	R	R	R	RR	R	R	R	R	R	R	R	R G	ΙY	l R	G	G	G	YR	ı G	l R	R	G	
NEAR RIGHT, FAR RIGHT AND MID MAST ARM SIGNALS												1																	1									
SOUTHWEST HIGHWAY E/B	l R	l R	l R	R	R	R	RR	R	R	R	RR	R	R	R	R	R	R	R	RR	R	R	R	R	R	R	R	$_{R}\midG$		l R	G	G	G	YR	: G	R	R	G	
END MAST ARM AND FAR LEFT SIGNALS					<u> </u>				⊢ _								\rightarrow					← Y					` —	3		← G	←Y							
SOUTHWEST HIGHWAY W/E	.	l R	R	R	R	R	R	R	R	R	RR	R	R	R	R	R	R	R	RR	R	R	R	G	ΙΥ	R	G	g R	l R	l R	l R	R	G	YR	: G	R	R	G	
NEAR AND FAR RIGHT MAST ARM SIGNALS	Υ -	→	Y →	>	Y →	•	G→ Y•	→ '``	G→	Y →													_															
SOUTHWEST HIGHWAY W/E	3 R	R	l R	R	R	R	RR	R	R	R	RR	R	R	R	R	R	R	R	RR	R	R	R	G	Y	R	G	g R	l R	l R	l R	R	G	YR	: G	R	R	G	
MID MAST ARM SIGNALS	\vdash		+														\rightarrow									_							$-\!\!\!\!-\!\!\!\!\!-$					· ·
SOUTHWEST HIGHWAY W/E END MAST ARM AND FAR LEFT SIGNALS	3 R	R	R	R	R	R	RR	R	R	R	R R	R	R	R	R	R	R	R	RR	R	R	R	G ← G	Y			G Y R	R	R	R	R	G	YR	G	R	R	G	
IL ROUTE 50 (CICERO AVENUE) N/B	-	+	FL	FL	-	-		. FL	+			+					-				FL			FL				FL	+	FL	FL			_ FL				-
	FL		FL	FL	FL	FL	FL FI	- FL	FL	FL	DARK DAR	K FL	FL	DARK	DARK	DARK	JARK	FL	PL DAI	RK TL	FL	FL V	FL V	FL	FL		-L FL		FL	FL	FL	FL	FL FL		DARK	FL V	FL	
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY	Y	T Y	Ť	Y	<u> </u>	T T	YY	Y	<u> </u>	Y		<u> </u>	Y				-+	<u> </u>	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	<u> </u>	T Y	Y	Ť	<u> </u>	Y		1	<u> </u>	
ON EAST SIDE OF IL ROUTE 50 (CICERO AVENUE)	н	Н	Н	Н	Н	H	н н	H	Н	Н	FH FH	Н	Н	FH	Н	н	FH	н	H F	н н	Н	Н	Н	н	Н	Н	н н	Н	Н	H	Н	н	н Н	Н	Н	Н	Н	
PEDESTRIAN SIGNALS CROSSING SOUTHWEST HIGHWAY			-						-								-+	-							-		_			-			$-\!\!\!\!\!+\!\!\!\!\!-$	-				
ON WEST SIDE OF IL ROUTE 50 (CICERO AVENUE)	Н	Н	Н	Н	Н	H	FH H	н	FH	Н	н н	Н	Н	FH	Н	н	FH	н	H F	н н	Н	Н	Н	н	Н	Н	н н	Н	Н	H	Н	н	н Н	I Н	Н	Н	Н	
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUI	-\							_									-+	_							-		_		-				-					-
ON SOUTH SIDE OF SOUTHWEST HIGHWAY	[⊑] / H	Н	Н	Н	Н	H	н н	Н	Н	Н	н н	Н	Н	Н	Н	н	н	н	н н	I Н	Н	Н	Н	Н	Н	н	H FF	н	H	FH	Н	FH	н н	I FH	Н	Н	Н	$ \diamond $
PEDESTRIAN SIGNALS CROSSING IL ROUTE 50 (CICERO AVENUI	= \		+-		-	-			1			-	-				-+										_		-	-			-					<u> </u>
ON NORTH SIDE OF SOUTHWEST HIGHWAY	[⊑] / H	Н	Н	Н	Н	H	н н	н	Н	Н	н н	Н	н	н	Н	н	н	н	н н	I Н	н	Н	FH	Н	Н	FH	н н	Н	H	Н	Н	FH	н Н	l FH	н	Н	Н	\Diamond
ON NORTH SIDE OF SOUTHWEST HIGHWAT				1	1							1																										

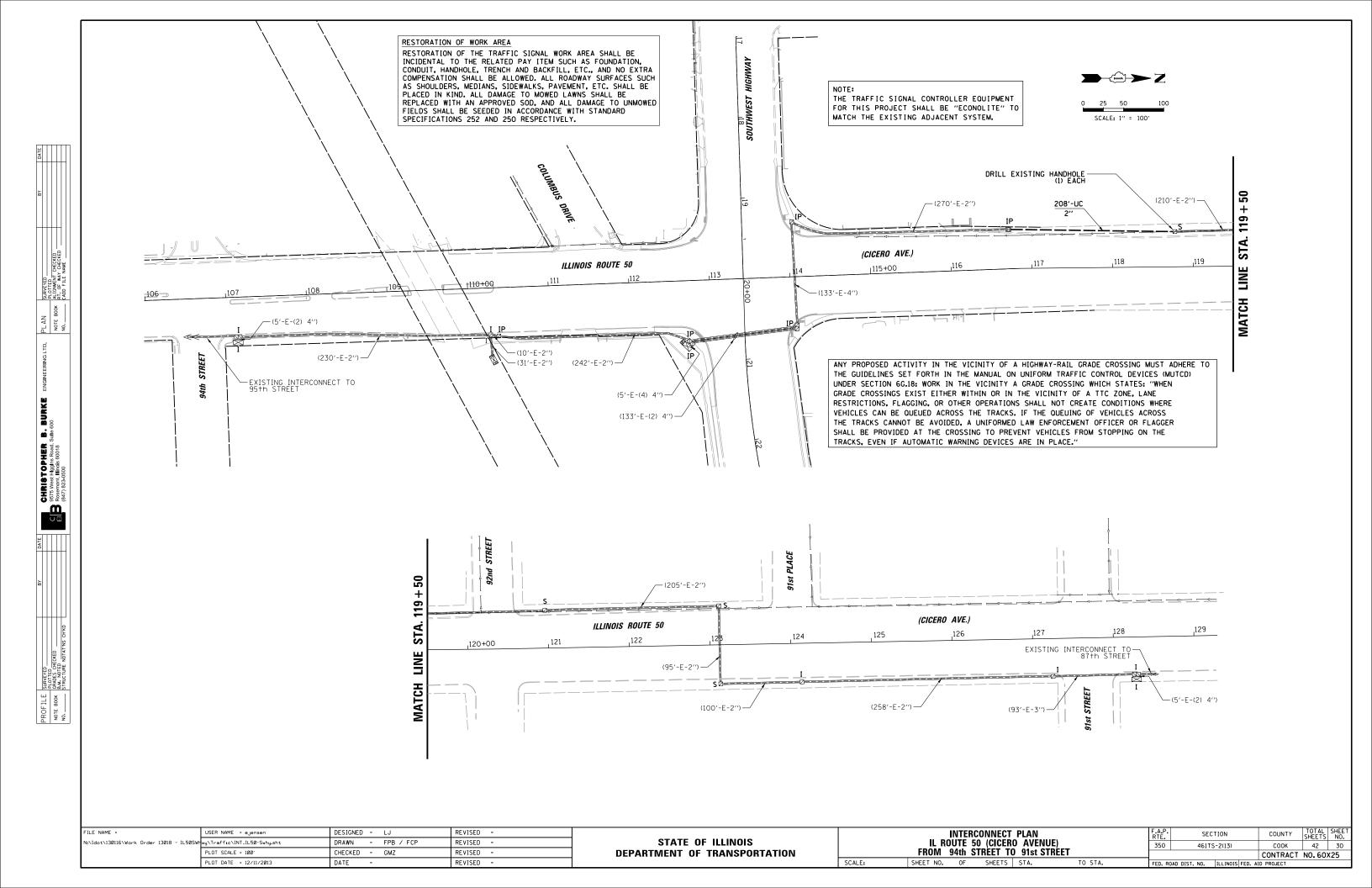
EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3 OR 4 IS TERMINATED.

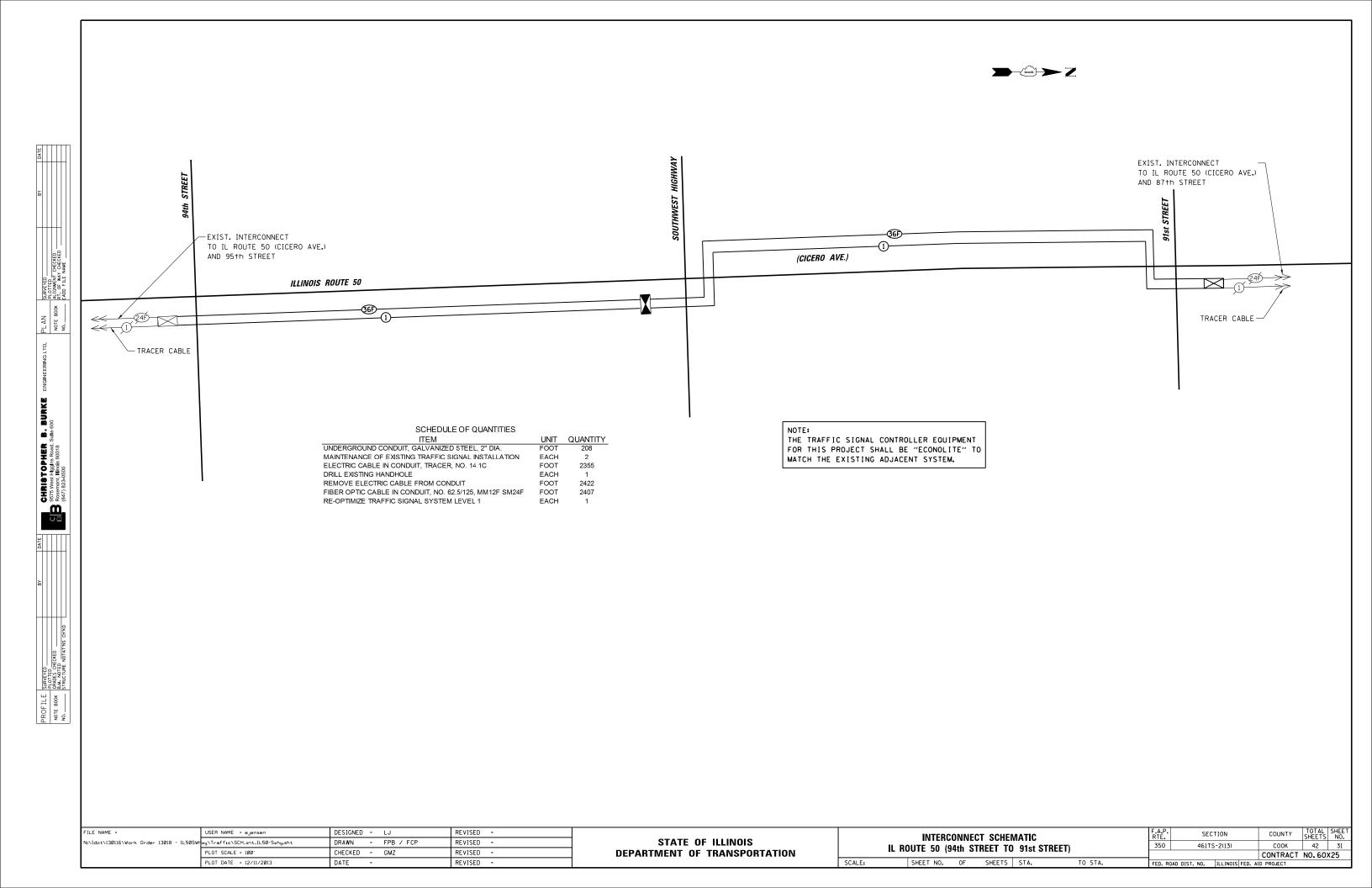
NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT
FOR THIS PROJECT SHALL BE "ECONOLITE" TO
MATCH THE EXISTING ADJACENT SYSTEM.

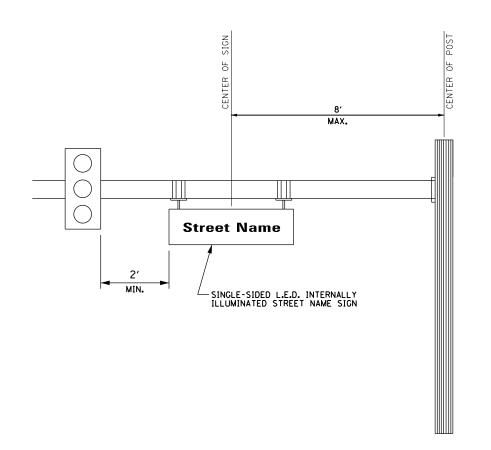
FILE NAME =	USER NAME = ejensen	DESIGNED - LJ	REVISED -		EMERGENCY VEHICLE PREEMPTION	F.A.P.	SECTION	COUNTY TO	TAL SHEET
N:\[dot\ 30116\Work Order 3018 - IL50SW	wy\Traffic\SEO_IL50-Swhy_02.sht	DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS	SEQUENCE OF OPERATION	350	461TS-2(13)	COOK 4	42 27
	PLOT SCALE = 2'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 (CICERO AVE.) AND SOUTHWEST HIGHWAY			CONTRACT NO.	.60X25
	PLOT DATE = 12/11/2013	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST	. NO. ILLINOIS FED.	. AID PROJECT	

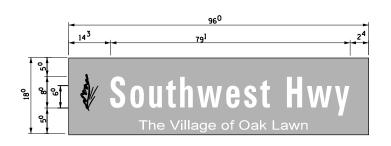


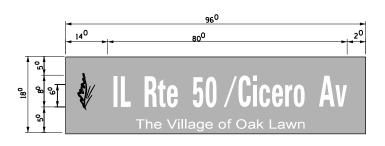












SCALE:

ILLUMINATED SIGNS

SIGN SIGN SIGN QUANTITY
DIMENSIONS NAME WATTAGE

8'-0" Southwest Hwy 45 2

8'-0" IL Rte 50/Cicero Av 45 2

<u> SIGNS</u>

2. SIGNS SHALL BE SINGLE SIDED AND PLACED ON THE MAST ARM AS INDICATED IN THE PLANS.

TO BE USED WITH INTERNALLY ILLUNMINATED STREET NAME SIGNS

MANUFACTURED BY TRAFFIC SIGNS, INC., OR APPROVED EQUAL.

1. THIS SHEET FOR INFORMATION ONLY.

FILE NAME =	USER NAME = ejensen	DESIGNED	-	LJ	REVISED	-
N:\idot\130116\Work Order 13018 - IL50SWH	wy\Traffic\STN_130116.sht	DRAWN	-	FPB / FCP	REVISED	-
	PLOT SCALE = 2'	CHECKED	-	GMZ	REVISED	-
	PLOT DATE = 12/11/2013	DATE	-		REVISED	-

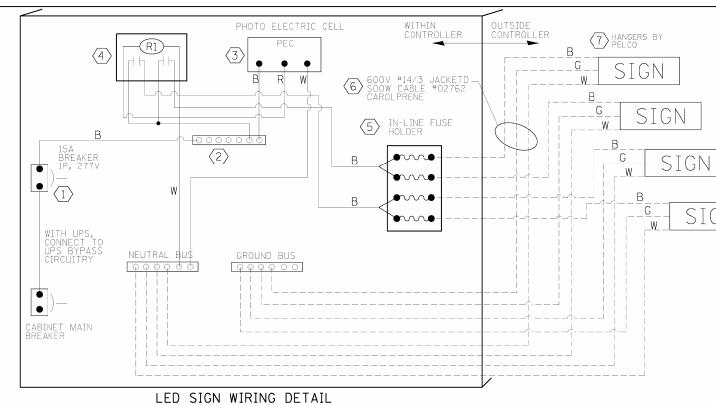
8" LOGO IN GREEN EC FILM OVER 3M DIAMOND GRADE TRANSLUCENT (DG 3 SERIES)

C & D SERIES FHWA STANDARD ALPHABET

PRODUCT CODE 4090T REFLECTIVE MATERIAL

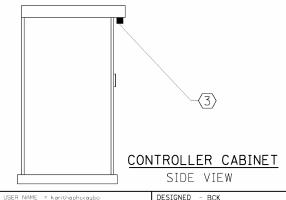
STATE	: OI	F ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

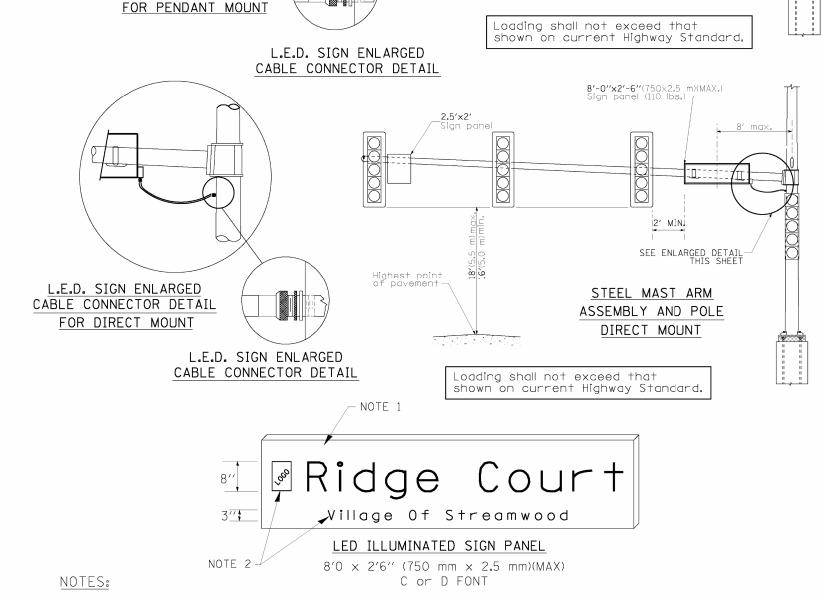
LED II	NITEDNIALL	v III		ED CIDEE	T NIABAT CICNI	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LED INTERNALLY ILLUMINATED STREET NAME SIGN						350	461TS-2(13)	соок	42	32
								CONTRACT	NO. 60	X25
	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. R	DAD DIST. NO. ILLINOIS FED. A	ID PROJECT		



BILL OF MATERIALS

DESCRIPTION	MANUFACTURER	MODEL	NOTES
1 CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere at 277V.
2 TERMINAL BLOCK	MARATHON	1502 DJSV	
3 PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
4 CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
5 INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
6 ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
(7) SIGN MOUNTING HARDWARE	PELCO	Pendant (SE-5015) Direct mount (AB-0104-L-SP) Additional sign stiffeners may be required for direct mounted signs.	S.S. HARDWARE





Highest point of pavement

1. SIGNS SHALL BE SIGNLE SIDED FOR DIRECT MOUNT AND DOUBLE SIDED FOR PENDANT MOUNT.

L.E.D. SIGN ENLARGED

CABLE CONNECTOR DETAIL

- 2. CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
- 3. SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- 4. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED: BL = BLUE W = WHITER = REDY = YELLOW G = GREEN

8'-0"x2'-6"(750x2.5 m)(MAX.) Sign panel (110 lbs.) 7

STEEL MAST ARM

ASSEMBLY AND POLE

PENDANT MOUNT

SEE ENLARGED DETAIL THIS SHEET

_**2.5'x2'**(750x600) Sign panel

- 5. ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #14AWG STRANDED UNLESS OTHERWISE INDICATED.
- 6. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

REVISED FILE NAME = ISER NAME = kanthaphixayb DRAWN - BCK REVISED LOT SCALE = 19.9680 '/ CHECKED - DAD REVISED DATE REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN

DISTRICT ONE ILLUMINATED STREET NAME SIGN SHEET NO. OF SHEETS STA.

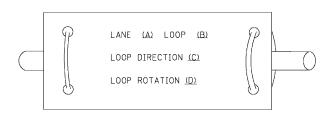
B = BLACK

350 461TS-2(13) COOK CONTRACT NO.60X25

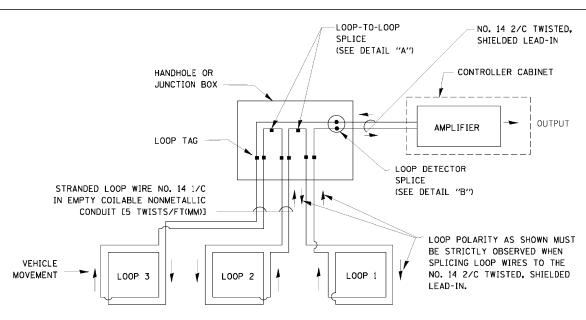
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

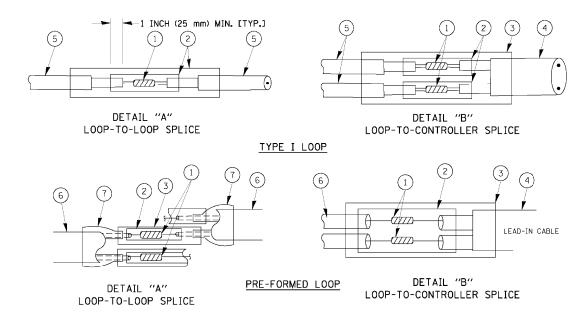


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES ① WESTERN UNION SELECTION OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
- BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

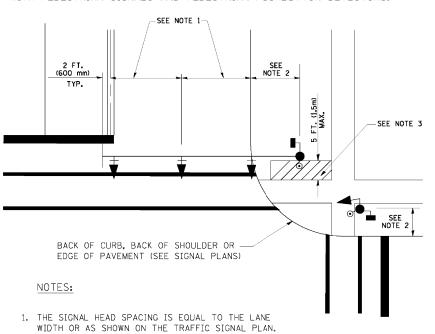
FILE NAME =	USER NAME = bauerdl	DESIGNED	-	DAD	REVISED -
c:\pw_work\PWIDOT\BAUERDL\dØ1Ø8315\tsØ5.c	dgn	DRAWN	-	BCK	REVISED -
	PLOT SCALE = 50,0000 '/ IN.	CHECKED	-	DAD	REVISED -
	PLOT DATE = 11/4/2009	DATE	_	10-28-09	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

						F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS					350	461TS-2(13)	COOK	42	34	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS							TS-05	CONTRACT	NO.602	(25
SCALE: NONE	SHEET NO. 1	OF 6	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT		

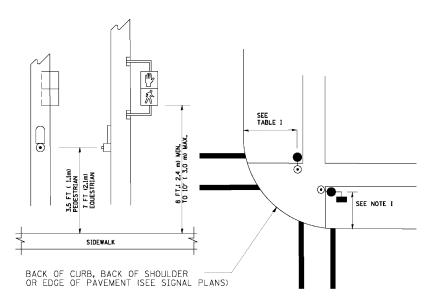
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



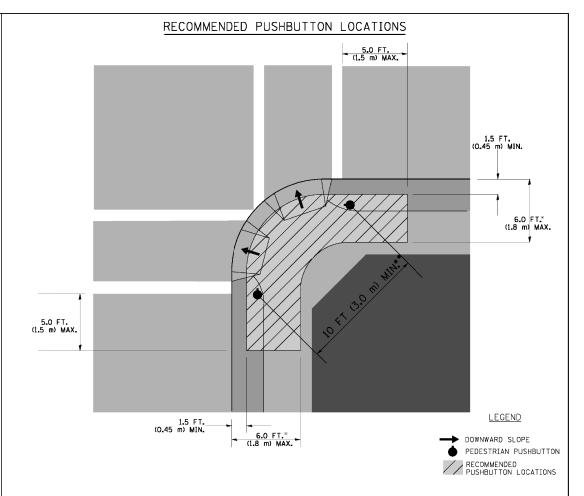
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) JP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACI_ITIES."



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- •• WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- . PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

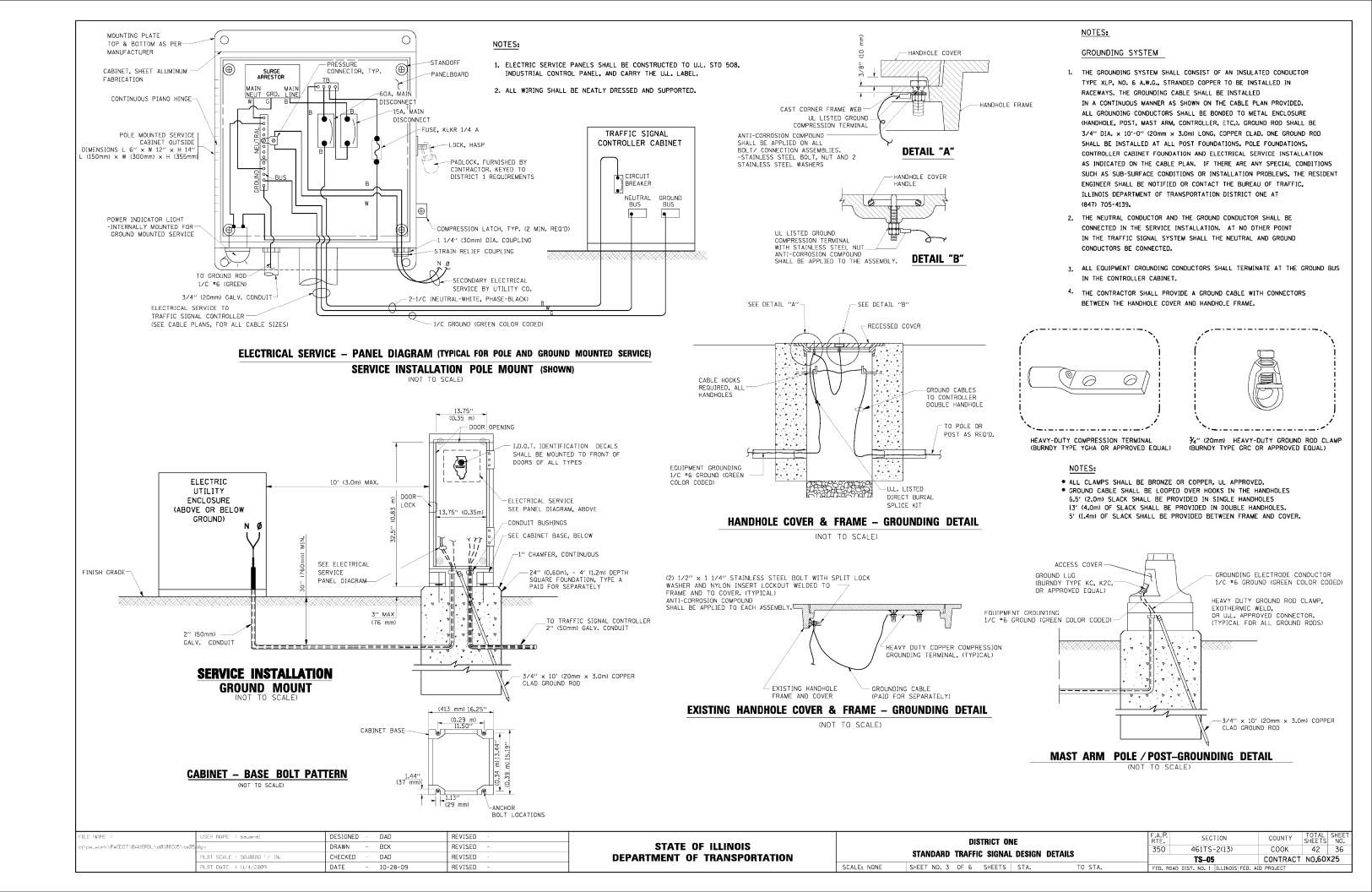
TRAFFIC SIGNAL EQUIPMENT OFFSET

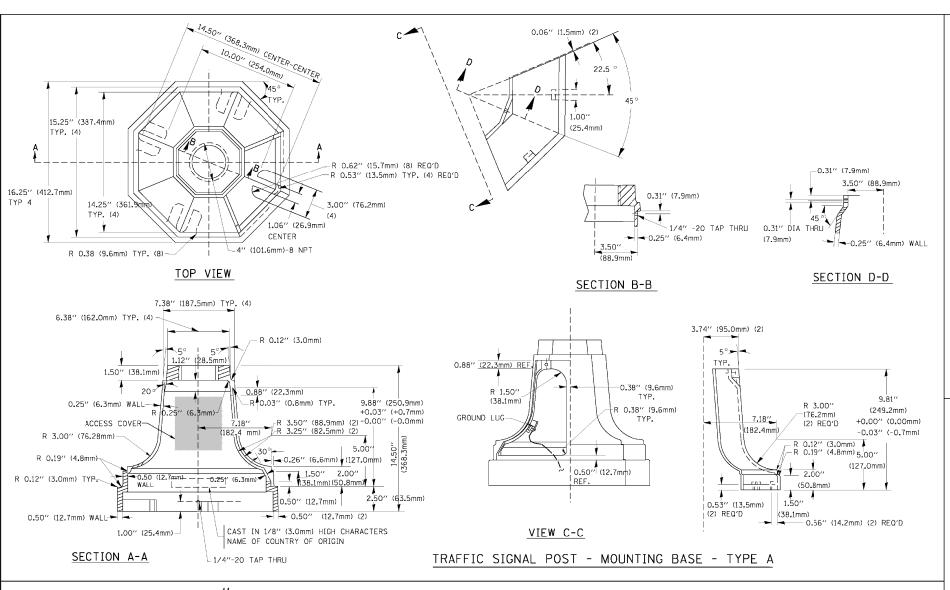
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)					
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.					
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.					

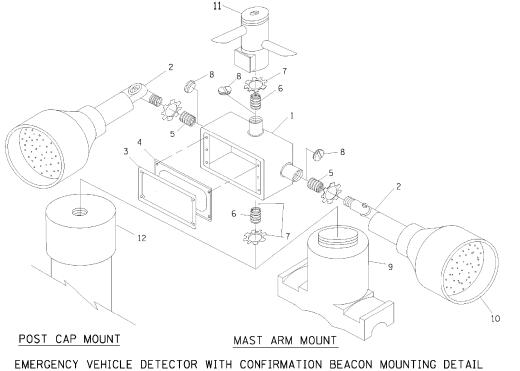
NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

DESIGNED FILE NAME SER NAME = bauerdl DAD REVISED SECTION COUNTY DISTRICT ONE DRAWN ВСК REVISED STATE OF ILLINOIS .pw_work\PWIDOT\BAUERDL\dØ1Ø8315\ 350 461TS-2(13) COOK STANDARD TRAFFIC SIGNAL DESIGN DETAILS CHECKED DAD REVISED **DEPARTMENT OF TRANSPORTATION** OT SCALE = 50.0000 1/ IN CONTRACT NO.60X25 TS-05 10-28-09 REVISED SCALE: NONE SHEET NO. 2 OF 6 SHEETS STA.







ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU.IN, (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾''(19 mm) CLOSE NIPPLE
7	¾4''(19 mm) LOCKNUT
8	3/4''(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/11(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

R0.50" 0.25 DRAIN 0.25" (6mm) PORT 0.25"-(6mm) 0.23"(5mm └─ 0.31′′(8mm) MATERIAL: - 0.20"(5mm) - ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED HEIGHT WEIGHT VARIES 19"(483mm) 7" (178mm) - 12" (300mm 53 lbs (24ka) 9.5"(241mm) VARIES 10.75"(273mn 21 5"(546mm) " (178mm) - 12" (300mm 68 lbs (31 kg)

В-В

10.75"(273mm) 21.5"(546mm) 7" (178mm) - 12" (300mm) 68 lbs (31 kg) 13.0"(330mm) 26"(660mm) 7" (178mm) - 12" (300mm) 81 lbs (37 kg) 18.5"(470mm) 37"(940mm) 7" (178mm) - 12" (300mm) 126 lbs (57 kg)

SHROUD

NOTES:

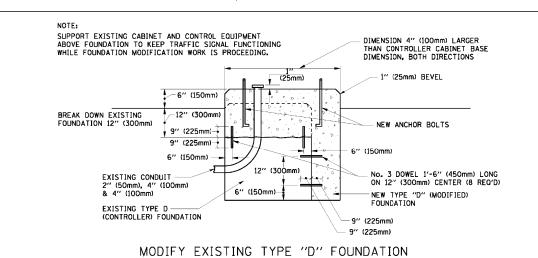
VARIES

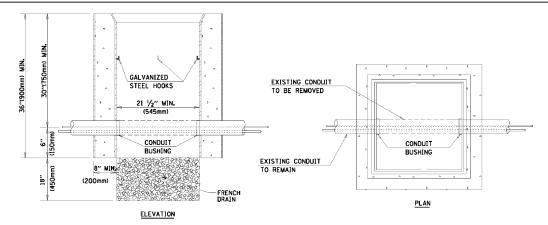
VARIES

- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD.
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.

(75mm)

3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.





NOTES:

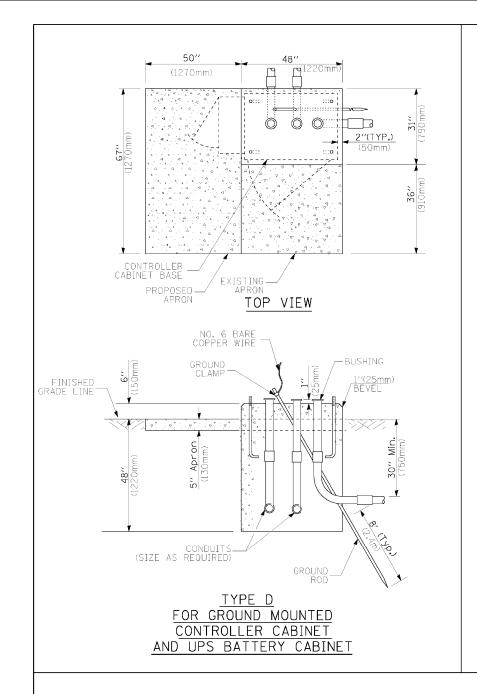
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

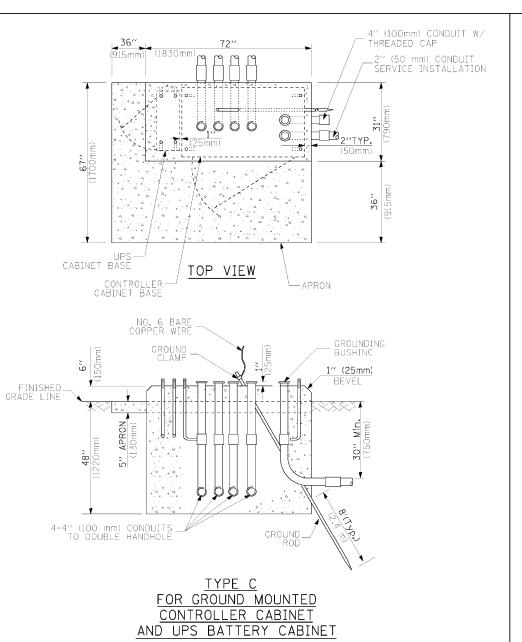
HANDHOLE TO INTERCEPT EXISTING CONDUIT

COUNTY

COOK 42 37 CONTRACT NO.60X25

		DESIGNED -	212	DEMICED					EAD	
FILE NAME =	USER NAME = bauerdl	DESTONED	DAD	KEAIZED -			DISTRICT ONE		RTE.	SECTION
c:\pw_work\PWIDOT\BAUERDL\dØ1Ø8315\tsØ5	dgn	DRAWN -	BCK	REVISED -	STATE OF ILLINOIS				350	461TS-2(13)
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		550	TS-05
	PLOT DATE = 11/4/2009	DATE -	10-28-09	REVISED -	S	SCALE: NONE	SHEET NO. 4 OF 6 SHEETS STA. TO	STA.	FED. ROAD D	IST. NO. 1 ILLINOIS FED. A





65" (SEE NOTE 4) (1651mm) 49" (SEE NOTE 3)
49" (SEE NOTE 3) 1245mm) (406mm) (1118mm)
2" × 6" (51mm × 152mm) WOOD FRAMING (TYP.)
<u> </u>
F====
→ TRAFFIC SIGNAL
☐ TRAFFIC SIGNAL CONTROLLER CABINET
ups──⊨
CABINET
PHYWOOD DECK
2" × 6" (51mm × 152mm) TREATED WOOD
(305mm)
N. B.
48° MIN (2019mm)
NOTES: 6" x 6" (152mm x 152mm) TREATED WOOD POSTS
BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF $16'' \times 25''$ (406mm \times 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE, FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

ERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
RACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
ERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
OUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

TYPE A - Signal Post	4'-0'' (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m
TYPE D - CONTROLLER	4'-0'' (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0'' (1.2m)

FOUNDATION

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3 _* 0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0'' (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

DEPTH

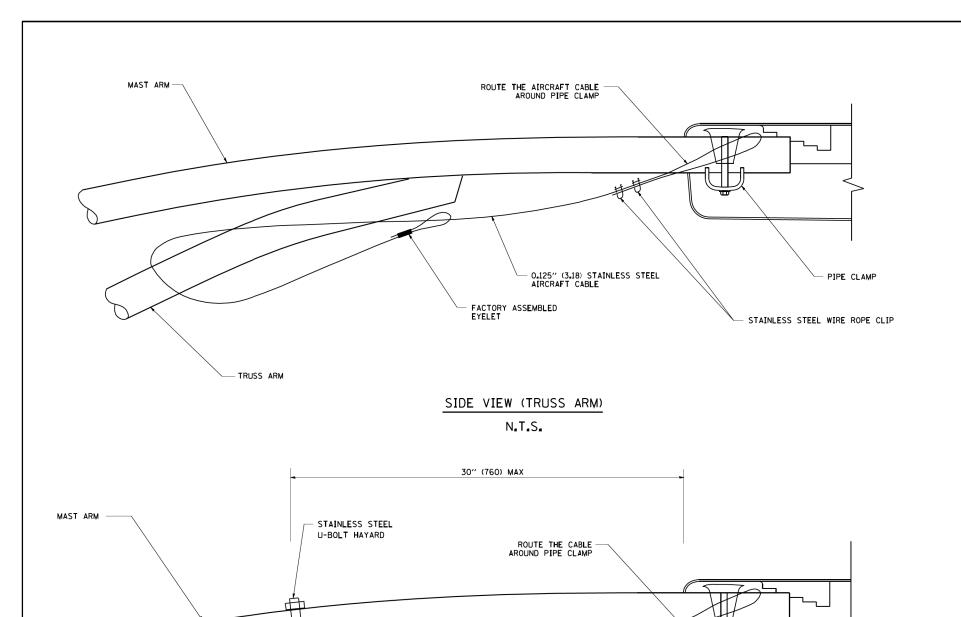
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa).
 This strength shall be verified by boring data prior to construction or with testing by the Engineer
 during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination most arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- 4. For mast arm assemblies with ducl arms refer to state standard 878001.

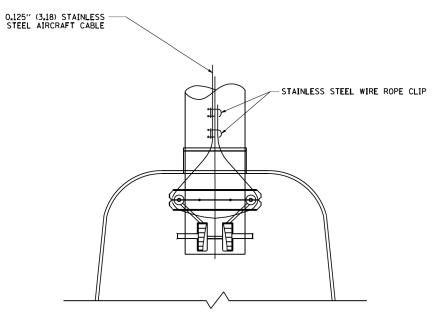
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

ſ	FILE NAME =	USER NAME = bauerdl	DESIGNED - DAG	REVISED -			DISTRICT ONE	F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
	c:\pw_work\PWIDOT\BAUERDL\dØ1Ø8315\tsØ5	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			350	461TS-2(13)	СООК	42	38
		PLOT SCALE = 50.00000 '/ IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRAC	T NO.60)	(25
		PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 6 SHEETS STA. TO STA.	FED. ROAL	D DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR		<u> </u>		ELECTRIC CABLE IN CONDUIT, TRACER,		<u> </u>	<u> </u>
RAILROAD CONTROL CABINET		<u> </u>		CONFIRMATION BEACON	R₀-(I	⊶ (₩.	NO. 14 1/C, UNLESS NOTED OTHERWISE		<i>)</i>	
COMMUNICATIONS CABINET	C C R	ECC	СС		R			COAXIAL CABLE		_ ©—	<u> </u>
MASTER CONTROLLER		EMC	MC	HANDHOLE	R 🖂						
MASTER MASTER CONTROLLER		EMMC	MMC	HEAVY DUTY HANDHOLE	R	H	H	VENDOR CABLE FOR CAMERA		————	
UNINTERRUPTIBLE POWER SUPPLY	UPS R	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE,		<u>—(e)</u>	-6-
SERVICE INSTALLATION,	R	_P	_ P	JUNCTION BOX	R 🔘		•	NO. 18 3 PAIR TWISTED, SHIELDED		ر فر	
(P) POLE OR (G) GROUND MOUNT TELEPHONE CONNECTION	-□ ^R	-O-F	 ■-	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F		<u> </u>	
(P) POLE OR (G) GROUND MOUNT	R	T	T	TEMPORARY SPAN WIRE, TETHER WIRE,	_R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		— <u>(24F</u>)—	-(24F)-
STEEL MAST ARM ASSEMBLY AND POLE	<u>`</u>	0	•	AND CABLE				FIBER OPTIC CABLE NO. 62.5/125,		,	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R -	0		COMMON TRENCH			СТ	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		- >-	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	$\overset{R}{\bigcirc \to}$	0-×	•	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		S	CNC S	GROUND ROD AT (C) CONTROLLER,		C.	Ca
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	Q	<u>PīZ</u> ¶	INTERSECTION ITEM		I	ΙΡ	(H) HANJHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		ll•	^c ∥ ⊢ •
SIGNAL POST	R	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R⊗	⊗	∞	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED			
BETTER) 45 FOO⊤ (13.7m) MINIMUM		₩	•	ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	O-RMF		
GUY WIRE	FR	>	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND	RMF		
SIGNAL HEAD		\rightarrow		12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED	0		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			-	YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
SIGNAL HEAD WITH BACKPLATE	+L>R	+->	+-			R	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED	R →>"P"	→ >"P"	- ►"P"	SIGNAL FACE			G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF O		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R ○- >''F''	O-⊳″F″	● ▶ "F"			◆ G	◆ Y ◆ G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	IS
PEDESTRIAN SIGNAL HEAD	R -	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		[s]	S
PEDESTRIAN PUSHBUTTON DETECTOR	R (®)		•	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		() ()	G 4 Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR	[P]	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS		APS			\$	 G				
ILLUMINATED SIGN	R	S	9			"Р"	"P"	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR	ÎPPÎ	
"NO LEFT TURN"	B		<u>W</u>	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		OW (w)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"				12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		[- 1 [PS]	[PS]
DETECTOR LOOP, TYPE I				INTERNATIONAL SYMBOL, OUTLINED							
PREFORMED DETECTOR LOOP			P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		(0)	*	RAILROAD	SYMBO	OLS	
MICROWAVE VEHICLE SENSOR	R (M)()	(M)	(M)	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		(E) C (S) D	₽ C ★ D			<u>EXISTING</u>	PROPOSED
VIDEO DETECTION CAMERA	R (V)	[V]	[Ŷ I	RADIO INTERCONNECT	 R F F	###0		RAILROAD CONTROL CABINET		R R	R ► < R
VIDEO DETECTION ZONE							·	RAILROAD CANTILEVER MAST ARM		X0 X = X X	XOX X
	R_			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL		X o X	X OX
PAN, TILT, ZOOM CAMERA		PTZ)		DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		_5		CROSSING GATE		X0X>	<u> </u>
WIRELESS DETECTOR SENSOR	RW -	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		,					*
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1	CROSSEUCK		\	
E NAME = USER NAME = bouerdl pw.work\PWIDOT\BAUERDL\dØ1Ø8315\ts05.dgn		ESIGNED - DAG/BCK	REVISED -	CTATE	OF HIMMO	•		DISTRICT ONE	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEETS
ow_work\PWIDOT\BAUERDL\dØlØ8315\tsØ5 dgn PLOT SCALE = 50.0000 ′/ I		RAWN - BCK HECKED - DAD	REVISED -	DEPARTMENT	OF ILLINOIS			STANDARD TRAFFIC SIGNAL DESIGN DETAILS	350	461TS-2(13) TS-05	COOK 42 CONTRACT NO.60





BOTTOM VIEW N.T.S.

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
- 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
- 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)

FACTORY ASSEMBLED

MAST ARM

-S.S. NUT &

STAINLESS STEEL U-BOLT HAYARD LOCK WASHER

EYELET

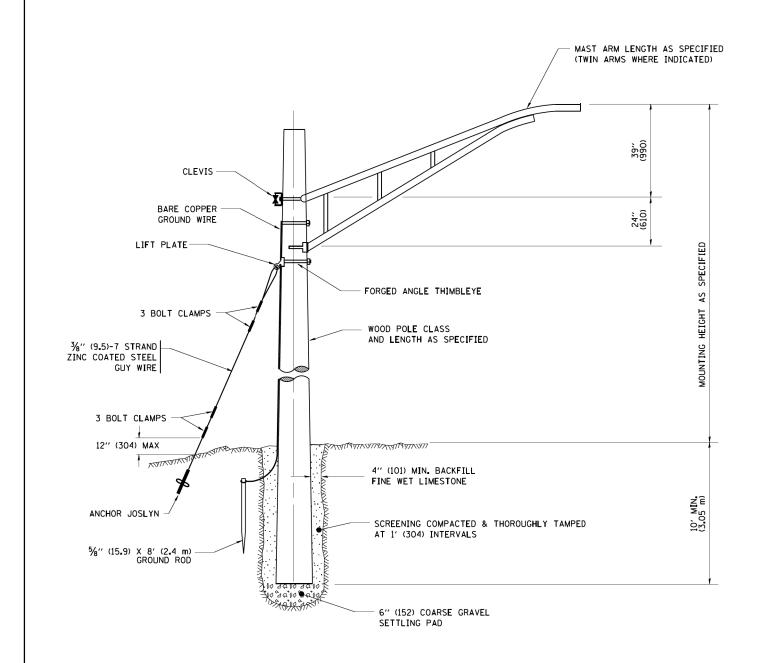
N.T.S.

O.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE

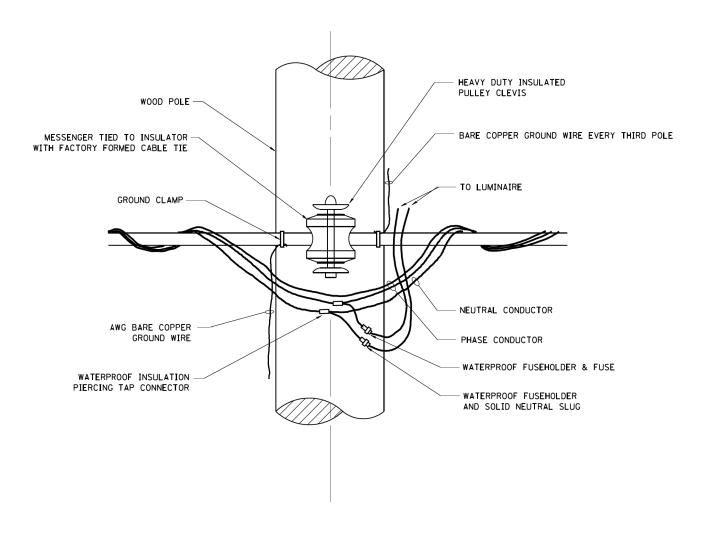
FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03			LUMINAIRE SAFETY CABLE ASSEMBLY		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET
W:\diststd\22x34\be701.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		LUMINAINE SAFETT CABLE ASSEMBLT		350	461TS-2(13)	СООК	42	39A
	PLOT SCALE = 50.000 '/ [N.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					BE-701	CONTRACT	T NO. 60	25
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO	STA.	FED. ROAD I	DIST. NO. 1 THE INDIS FED.			=

STAINLESS STEEL WIRE ROPE CLIP

- PIPE CLAMP





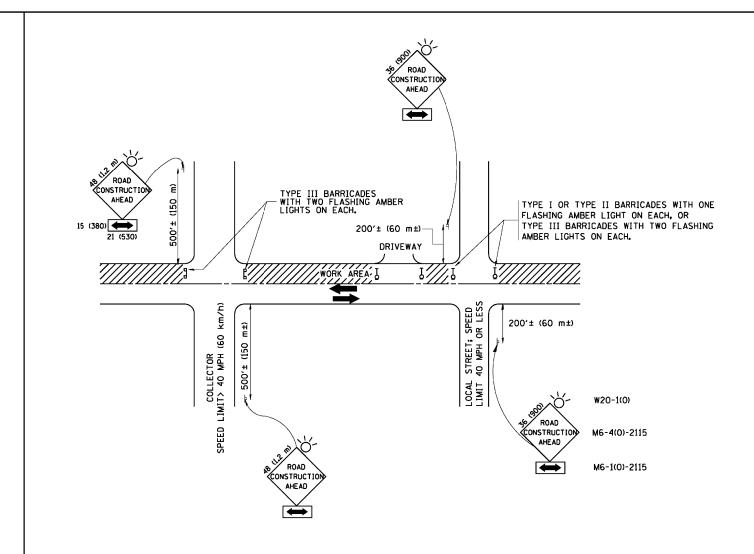


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03			TEMPORARY LIGHT POLE DETAILS		RTF	SECTION	COUNTY	SHEETS	NO.
W:\diststd\22x34\be800.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		TEMPORARI EIGHT FOLL DETAILS		350	461TS-2(13)	СООК	42	39B
	PLOT SCALE = 50.000 '/ [N.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					BE-800	CONTRACT	T NO. 60	25
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD	D DIST. NO. 1 ILLINOIS FED. A			



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:
- Q) 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:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1,2 m x 1,2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (50 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).

SCALE: NONE

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.

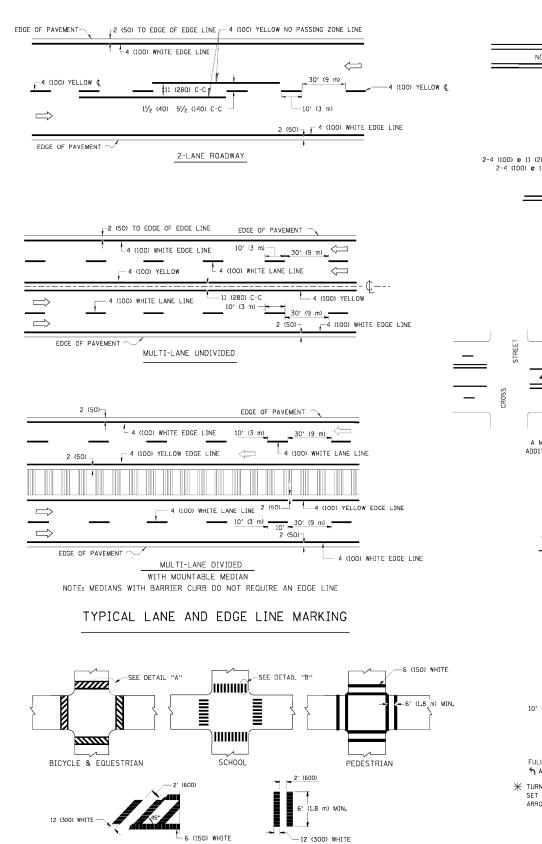
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

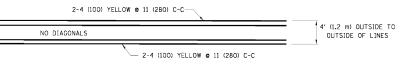
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
W:\diststd\22x34\tc10.dgn		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

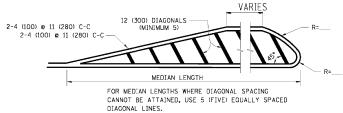
STATI	E OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CIDE DOADS INTERSECTIONS AND DRIVE	350	461TS-2(13)	COOK	42	40	
SIDE NUADS, INTENSECTIONS, AND DRIVE	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS					X25
SHEET NO. 1 OF 1 SHEETS STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT			



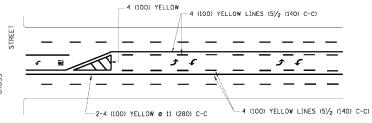


4' (1.2 m) WIDE MEDIANS ONLY

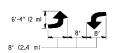


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH 150 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

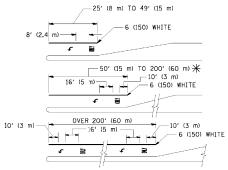


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

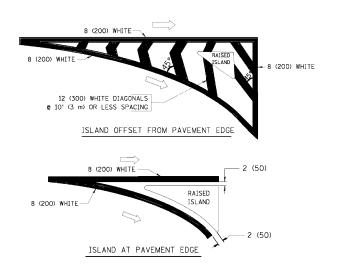


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²) \P AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (5 m) SPACE FOR SKIP-DASH; 5½ (140) C-C DETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 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 PASALLEL TO CROSSMALK, IF PRISENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	© 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	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 (OVFR 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 ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) e 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 (0VER 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.

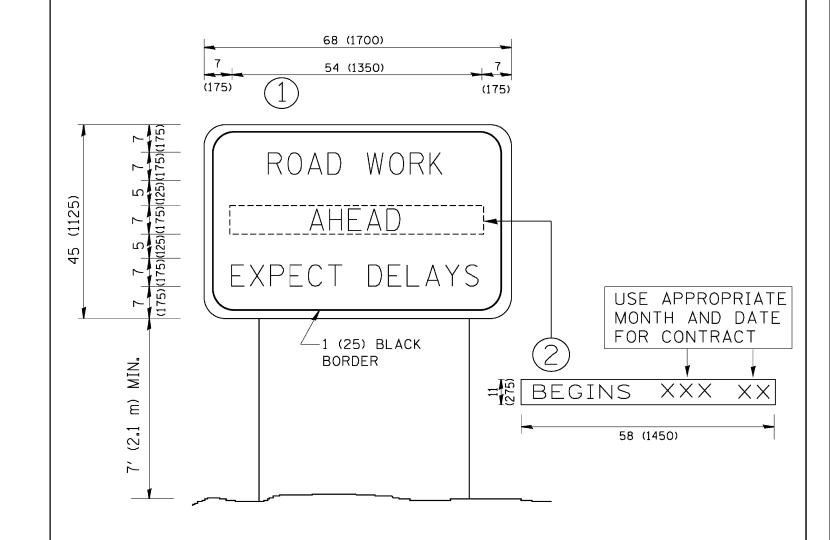
FILE NAME =	USER NAME = drivakosgn	DESIGNED -	EVERS	REVISED	-T. RAMMACHER	10-27-94
c:\pw_work\pwidot\drivakosgn\d0108315\tc	l3.dgm	DRAWN -		REVISED	-C. JUCIUS	09-09-09
	PLOT SCALE = 50.000 '/ IN.	CHECKED -		REVISED	-	
	PLOT DATE = 9/9/2009	DATE -	03-19-90	REVISED	-	

TYPICAL CROSSWALK MARKING

DETAIL "A"

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

DISTRICT ONE						SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TYPICAL PAVEMENT MARKINGS					461TS-2(13)	COOK	42	41
	ITFICAL FA	A CIAICIA I	MANKINGS			NO.60	X25		
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN () WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = geglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97	•	ARTERIAL ROAD	F.A. SECTION	COUNTY TOTAL SHEET
Wi\diststd\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		350 461TS-2(13)	COOK 42 42
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	TC-22	CONTRACT NO.60X25
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	