07-31-2015 LETTING ITEM 008

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE VILLAGE OF GLENVIEW AND NILES

TRAFFIC DATA:

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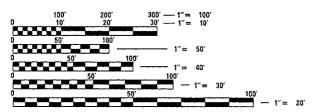
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IL. RTE. 21: 2013 ADT = 30,100SPEED LIMIT = 35 MPH

IL. RTE. 58: 2013 ADT = 31,500SPEED LIMIT = 35 MPH

GREENWOOD AVE.: 2010 ADT = 12,700SPEED LIMIT = 35 MPH



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT ENGINEER: KEN ENG PROJECT MANAGER: JENPAI CHANG (847) 705-4432

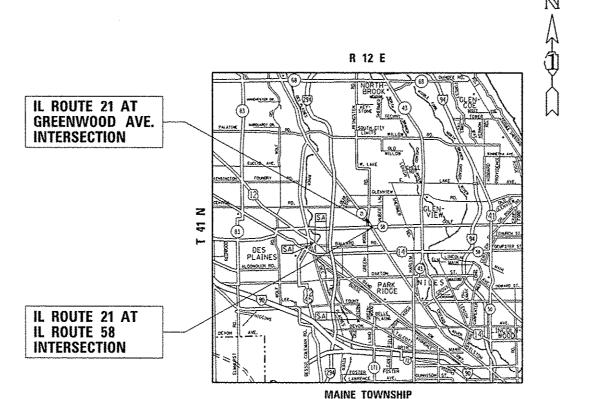
HIGHWAY PLANS **FAP 374: IL RTE. 21 (MILWAUKEE AVENUE)** AT IL. RTE. 58 (GOLF ROAD) AND AT GREENWOOD AVENUE

TRAFFIC SIGNAL MODERNIZATION, SIDEWALKS AND PEDESTRIAN RAMPS

SECTION: 2014-059-I

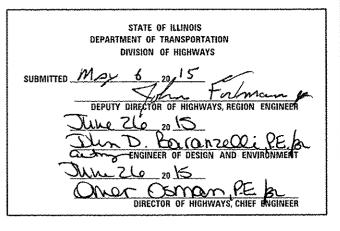
PROJECT: ACHSIP-0347(031)

COOK COUNTY C-91-022-15



ILLINOIS ROUTE 21: GROSS LENGTH = 1400 FEET (1/4 MILE) **NET LENGTH = 800 FEET**





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

1-800-892-0123

CONTRACT NO. 60Y78

INDEX OF SHEETS

STATE STANDARDS

SHEET NO	DESCRIPTION
. 1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES
3-6	SUMMARY OF QUANTITIES
7-8	EXISTING AND PROPOSED TYPICAL SECTION
9~14	ROADWAY AND PAVEMENT MARKING PLANS
15-21	STANDARD TRAFFIC SIGNAL DETAILS
22-3	O ILLINOIS ROUTE 21 AT ILLINOIS ROUTE 58 ELECTRICAL PLANS
31-38	8 ILLINOIS ROUTE 21 AT GREENWOOD AVENUE ELECTRICAL PLANS
39~4	3 INTERCONNECT PLAN
44-53	3 DISTRICT STANDARDS

STANDARD NO.	DESCRIPTION
000001 - 06	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
442201 - 03	CLASS C AND D PATCHES
606001 <i>-06</i>	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 2' FROM PAVEMENT EDGE
701427-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS SPEED < 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, NONTRAVERSABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801 <i>-05</i>	SIDEWALK, CORNER, CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES

DISTRICT DETAILS

80	-2
BD	-5
BD	-22
BD	-24
TC	-10
TC	-11
TC	-13
TC	-14
TC	-22
TC	-26
TS	-05

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR "CUAN" (CHICAGO UTILITY ALERT)

NETWORK) AT 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES, (48 HOURS NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES AND THE VILLAGE OF NILES AND GLENVIEW.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE RESIDENT ENGINEER SHOULD CONTACT JOE ECKERT. AREA TRAFFIC TECHNICIAN, USING EMAIL ONLY AT JOE.ECKERT@ILLINOIS.GOV 72 HOURS PRIOR TO PLACING ANY PAVEMENT MARKINGS.

THE CONTRACTOR SHALL CONTRACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO START OF WORK.

10 FEET (3 METERS) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H). WITH WRITEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75MM) MAY BE ALLOWED IFTHE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

COUNTY TOTAL SHEET NO.
COOK 53 2
CONTRACT NO. 60Y78

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-	os/p=,work/pxsdot/ladazmarm/d0333875/PI		DRAWN -	REVISED -	
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-		PLOT DATE = 5/19/2015	OATE -	REVISED -	

STATI	E OI	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

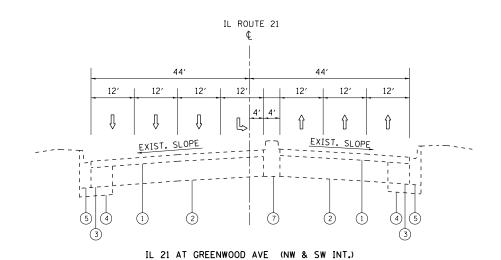
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***********						S & GENERAL NOTES		347	2014-059-1
***************************************	SCALE:	SHEET NO.	DF	SHEETS	STA,	TO STA.		!	ILLINOIS FEE

	SUMMARY OF QUANTITIES		URBAN			CONSTRUCT	ION TYPE	CODE	-		SUMMA	RY OF QUANTITIES		URBAN			CONSTRUCT	ON TYPE	CODE	
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35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	53	The state of the s	53					44201798	CLASS D PATO	CHES, TYPE I, 13 (NCH	SQ YO	3	3					
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	75	69	6	Armen and the second	A PRINCIPAL DE VICTOR DE V	Table of the state	- Andrew Control of the Control of t	44201803	CLASS D PATO	CHES. TYPE II. 13 [NCH	SO YO	51	51				The state of the s	
		vorte de la constante de la co				***************************************	real and sensor the sensor that the sensor thas the sensor that the sensor that the sensor that the sensor tha													
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX	TON	27	The state of the s	27		THE PARTY OF THE P			44201809	CLASS D PATO	HES, TYPE IV. 13 INCH	SO YO	72	72					
	"D", N50		-		4		The state of the s		verbucker er de en er											
		and the same of th			and the state of t			The state of the s		60603500	COMBINATION	CONCRETE CURB AND GUTTER.	F00T	121	121					
42001300	PROTECTIVE COAT	SO YD	698	612	86	7000	Apparatus Appara	THE TAXABLE PARTY AND			TYPE B-6.06									
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SO FT	3934	3337	597	TO THE PROPERTY OF THE PROPERT	Amazon de la constanta de la c	anderen wediter eren here		60605000	COMBINATION	CONCRETE CURB AND GUTTER,	F00T	580	580			,		
	INCH						A.S. Company of the state of th	L U U U U U U U U U U U U U U U U U U U	2011		TYPE B-6. 24									
		11	manufacture and a second and a						A PARTIES											
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8	SO FT	176		176			mana de la companya d		60618300	CONCRETE MED	IAN SURFACE. 4 INCH	SO FT	555	555					The state of the s
	INCH								manner and d											
								Arten de la constitución de la c	The state of the s	60620800	CONCRETE MED	IIAN, TYPE SB-9.12	SO FT	165	165					
42400800	DETECTABLE WARNINGS	SO FT	275	265	10				-	60624600	CORRUGATED N	IED I AN	SQ FT	289	289			***************************************		
44000100	PAVEMENT REMOVAL	SO YD	138	138		A THE STATE OF THE	Anna de la contraction de la c		de sample de la constante de l				-						Tomas of Manager	ACCOUNTS OF THE PROPERTY OF TH
							and a second		TO THE PERSON NAMED IN COLUMN TO THE	*66900200	NON-SPECIAL	WASTE DISPOSAL	CU YD	35	35					
44000200	DR[VEWAY PAVEMENT REMOVAL	SO YO	72		72			A CONTRACTOR OF THE CONTRACTOR												
										•66900450	SPECIAL WAST	E PLANS AND REPORTS	LSUM	1	1					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	676	676			Arman tayanan tayan	Activities of the second of th	the state of the s	66666570	SAL GIRBOSA		54611			-				AND THE PROPERTY OF THE PROPER
						,				*66900530	SOIL DISPOSA	L ANALISIS	EACH	1	1		distribution of the state of th		-	
44000600	SIDEWALK REMOVAL	SO FT	71	71		100 pro	Acquiring parts before the control of the control o	A TANK WANTED TO THE STATE OF T		67000400	ENGINEER'S F	IELD OFFICE, TYPE A	CAL MO	3	3					an a
44201670	CLASS D PATCHES, TYPE I. 2 INCH	S0 Y0	16	14	2		Vandana Antonia Antoni	The state of the s	I I I I I I I I I I I I I I I I I I I											
					- Anna Anna Anna Anna Anna Anna Anna Ann					67100100	MOBILIZATION	ı	LSUM		ı					
44201672	CLASS D PATCHES, TYPE [[. 2 INCH	SQ YD	. 39	26	13				***************************************	Anna para para para para para para para p				**************************************	2					
		-				-			-	70102630		ROL AND PROTECTION.	LSUM	4	1					
44201674	CLASS D PATCHES, TYPE III, 2 INCH	SO YO	112	112		Table on the control of the control	The second secon	Normal Walkerson	-	×	STANDARD 701			AND THE PROPERTY OF THE PROPER	understand in the second secon					
		1 00000		1	ļ		A CALL STREET,		The state of the s			SPECIALTY ITEMS:		<u></u>		le .			L	TOTAL I SUEST
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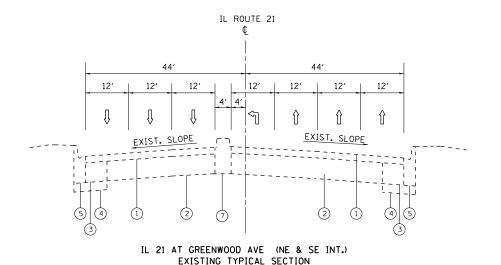
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70102635	TRAFFIC CONTROL AND PROTECTION.	LSUM	1	HSIP	SIOEWALK	EVP & TS				81028220	MARERCOOLING	CONDUIT, GALVANIZED STEEL,	FOOT	148	HS(P	SIDEWALK	EVP & TS			
10102833		Laum	ļ	L	e de la companya de l					- - -	UNDERGROUND	CONDUIT, GALVANIZED STEEL,		140	140	<u> </u>				
	STANDARD 701701	-		-				-			3" DIA.		-							
					ra vanaman and a			ļ	ļ	.										-
70102640	TRAFFIC CONTROL AND PROTECTION,	LSUM	1	L	4	and the same of th			real property of the second	81028240	UNDERGROUND	CONDUIT, GALVANIZED STEEL,	FOOT	1869	1859					
	STANDARD 701801				A construction of the cons						4" DIA.									
		AND THE RESERVE AND THE RESERV	The state of the s		paragraphic paragr															
72000100	SIGN PANEL - TYPE 1	SO FT	63	63						81400100	HANDHOLE		EACH	15	15					
		A Company of the Comp		-				-												
*72000200	SIGN PANEL - TYPE 2	\$0 FT	114	114		1		the state of the s	the state of the s	81400200	HEAVY-DUTY F	HANDHOLE	EACH	7	7					
									And the state of t											ļ
- 78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	473	473			-			81400300	DOUBLE HAND!	HOLE	EACH	6	6					
	LETTERS AND SYMBOLS			ļ																
									The statement of the st	85000200	MAINTENANCE	OF EXISTING TRAFFIC SIGNAL	EACH	3	3					
- 78000200	THERMOPLAST(C PAVEMENT MARKING - L(NE	FOOT	5950	5950					AND THE PERSON AND TH		[NSTALLAT [ON	•		<u> </u>						
	4"																			
						-	ļ		ļ	85100500	PAINT NEW TR	RAFFIC SIGNAL POST	EACH	9			9			
- 78000600	THERMOPLAST(C PAVEMENT MARKING - L(NE	FOOT	2082	2082																
	12"									85100600	PAINT NEW MA	AST ARM AND POLE, UNDER 40	EACH	1						
											FOOT									
- 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	322	322																
	24"									85100701	PAINT NEW MA	ST ARM AND POLE, 40 FOOT	EACH	7		-	?			
									1		AND OVER									
78300100	PAVEMENT MARKING REMOVAL	SQ FT	631	631																
		A A A A A A A A A A A A A A A A A A A								86400100	TRANSCEIVER	- FIBER OPTIC	EACH	2	2		To the state of th			
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2	2																
										87300925	ELECTRIC CAE	BLE IN CONDUIT, TRACER, NO.	FOOT	3707	3707					
81028200	UNDERGROUND CONDUIT, CALVANIZED STEEL,	FOOT	3390	3390							14 10									
	2" DIA.											·								
										87301215	ELECTRIC CAE	BLE IN CONDUIT, SIGNAL NO.	FOOT	4875	4875					
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	128	128						-	14 2C									
	2 1/2" DIA.									7		SPECIALTY ITEMS			A de la constante de la consta					
FILE HAME :		DESIGNED - DRAWN -		REVISED REVISED			-		STATE OF	ILLINOIS		ILLINOIS ROUTE 21 AT ILLINOI			WOOD A	VE RTE.	SECT		COUNTY S	TOTAL SHEET
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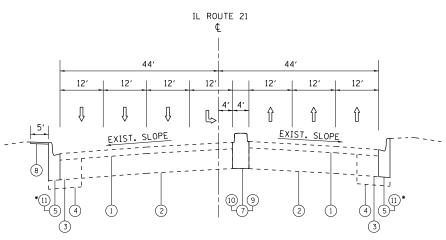
		SUMMARY OF QUANTITIES		URBAN			CONSTRUCTI	ON TYPE (CODE			SUMMAF	RY OF QUANTITIES		URBAN			ONSTRUCTI	ON TYPE	CODE	
25 Mo			T	TOTAL	90% FED	20%	100% NILES								TOTAL	90% FED	80% ST 20%				
	CODE NO	ITEM	UNIT		0021	NILES 0021	0021		***************************************		CODE NO		ITEM	UNIT		0021	NILES 0021	0021			
10.10	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	7528	7528			-			87700240	STEEL MAST A	RM ASSEMBLY AND POLE, 40	EACH	1	L L					
20.15 C-2017 C-2016 To Code To		14 3C	ALL AND									FT.				A CONTRACTOR OF THE CONTRACTOR					
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2000 CASCINIC CARGE IN COMMUNIC, LOCAL-IN- NO. 1927 2009 1930 1930 1930 1930 1930 1930 1930 1	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO,	FOOT	2541	2541						87700270	STEEL MAST A	RM ASSEMBLY AND POLE, 46	EACH	1	1					
14 1-24/18		14 7C										FT.							······································		
14 1-24/18	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN. NO.	FOOT	9330	9330					·····	87700280	STEEL MAST A	RM ASSEMBLY AND POLE. 48	EACH	t	1					
F C FT.								<u> </u>	district the second sec												
F C FT.									TO THE PERSON NAMED IN THE		The state of the s										
201900 ELECTRIC CHARLE IN CONDUIT, EQUIPMENT FOOT 2016 2016	87301805		FOOT	90	90						87700340		RM ASSEMBLY AND POLE, 58	EACH	1	1					
SOUNDING CONDUCTOR, NO. 6 10 FT.		6 2 C							A TELEVISION OF THE PERSON OF			fī.		-		-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
87700408 STEEL MAST ARM ASSENDELY AND POLE, 64 EACH 1 1 1 87800400 TRAFFIC SIGNAL POST, CALVANIZED STEEL EACH 2 2 2 87800100 CONCRETE FOUNDATION, TYPE A FOOT 36 36 87800100 CONCRETE FOUNDATION, TYPE A FOOT 36 36 87800100 CONCRETE FOUNDATION, TYPE A FOOT 36 36 87800100 CONCRETE FOUNDATION, TYPE C FOOT 8 8 8 87800410 CONCRETE FOUNDATION, TYPE C SIGNAL POST, CALVANIZED STEEL EACH 2 2 2 87800410 CONCRETE FOUNDATION, TYPE C SIGNAL POST, CALVANIZED STEEL EACH 2 2 2 87800410 CONCRETE FOUNDATION, TYPE C SIGNAL POST, CALVANIZED STEEL EACH 2 2 2 87800410 CONCRETE FOUNDATION, TYPE C 36-INCH FOOT 63 63 87800420 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 63 63 97800410 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 62 63 97800420 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 62 63 97800420 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 62 63 97800420 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 62 63 97800420 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 62 63 97800420 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 62 63 97800420 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 62 63 97800420 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 62 63 97800420 CONCRETE FOUNDATION, TYPE C 42-INCH FOOT 62 63 97800420 CONCRETE FOUNDATION SOUTE SA AND GREENWOOD AVE AND CONCRETE FOUNDATION SUMMANY OF QUANTITIES	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	2016	2016						87700400	STEEL MAST A	RM ASSEMBLY AND POLE, 60	EACH	2	2	Arrivate of the first of the fi				
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14 FT. 87800150 CONCRETE FOUNDATION, TYPE C FOOT 8 8 8					14.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.															·	
87800150 CONCRETE FOUNDATION, TYPE C FOOT 8 8 8	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	2	2		·				87800100	CONCRETE FOU	NOATION, TYPE A	FOOT	36	36					
16 FT. 87800415 CONCRETE FOUNDATION, TYPE & 36-INCH FOOT 6.3 6.3		14 FT,			-					***************************************											
16 FT. 87800415 CONCRETE FOUNDATION, TYPE E 36-INCH FOOT 6.3 6.3	97500500	TRACEIA CIANTA PACT ALLUMINITES CITES	540.		2	,					87800150	CONCRETE FOU	NDATION, TYPE C	FOOT	8	8					
DIAMETER DIAMET	87502500		EACH	2	2						87800415	CONCRETE FOU	NDATION, TYPE E 36-INCH	FOOT	63	63	***************************************				
FT. 87800420 CONCRETE FOUNDATION, TYPE E 42-INCH FOOT 63 63			*****																		
NAME: USER NAME: INDERNATION DESIGNED - REVISED - STATE OF ILLINOIS ROUTE 21 AT ILLINOIS ROUTE 58 AND GREENWOOD AVE OF SHEETS REVISED - REVISED - STATE OF ILLINOIS SUMMARY OF QUANTITIES REVISED - DEPARTMENT OF TRANSPORTATION DIAMETER DIAMETER DIAMETER LILINOIS ROUTE 21 AT ILLINOIS ROUTE 58 AND GREENWOOD AVE OF SHEETS	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36	EACH	1	t			9									The second secon				
NAME: USER NAME: INDESTRUCTION DESIGNED - REVISED - STATE OF ILLINOIS PLOT SCALE + 800,0000 / In CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES BLUINOIS ROUTE 21 AT ILLINOIS ROUTE 58 AND GREENWOOD AVE SHEETS OF CONTRACT NO. 60Y		FT.		Parameter state of the state of							87800420		NDATION, TYPE & 42-INCH	FOOT	63	63	THE PARTY AND TH				
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CONTROL OF THE PARTY OF THE PAR	сі\риширгіі\риіфапіва											rion:				,	374	2014-1	059-1	COOK	53 5
PLOT DATE - SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								D	DEPARTIVIT	Ur I	AINDACNINI					TO STA.		2040 0151	hi navel ess		iu. 60Y78

### CODE NO ### REPORT OF THE PORT OF THE	ITEM EXISTING HANDHOLE HEAD, LED, 1-FACE, 3-SECTION, T MOUNTED HEAD, LED, 1-FACE, 3-SECTION, T MOUNTED	EACH EACH		0021		100% NILES 0021 EVP & TS			CODE NO 89502300	SUMMARY OF QUANTITIES ITEM REMOVE ELECTRIC CABLE FROM CONDUIT	UNIT	TOTAL QUANTITIES	0021	20% NILES 0021	100% NILES 0021 EVP & TS		A.	<i>ξ</i>
88030020 SIGNAL F MAST-ARM 88030050 SIGNAL F BRACKET	HEAD, LED, 1-FACE, 3-SECTION, RM MOUNTED HEAD, LED, 1-FACE, 3-SECTION, T MOUNTED	EACH	. 25	#SIP 2 25	SIDEWALK F	OUZI EVP & TS	11 11 11 11 11 11 11 11 11 11 11 11 11		89502300	REMOVE ELECTRIC CABLE FROM CONQUIT	FOOT	2503	HS(P	SIDEWALK	EVP & TS		A .	
88030020 SIGNAL F MAST-ARM 88030050 SIGNAL F BRACKET	HEAD, LED, 1-FACE, 3-SECTION, RM MOUNTED HEAD, LED, 1-FACE, 3-SECTION, T MOUNTED	EACH	. 25	25					89502300	REMOVE ELECTRIC CABLE FROM CONQUIT	FOOT	2503	2503		· ·		is a second	
88030050 SIGNAL 8 88030100 SIGNAL 8	RM MOUNTED HEAD, LED, 1-FACE, 3-SECTION, T MOUNTED	EACH							89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2503	2503					·
88030050 SIGNAL 8 88030100 SIGNAL 8	RM MOUNTED HEAD, LED, 1-FACE, 3-SECTION, T MOUNTED	EACH									\$						1	
88030050 SIGNAL R BRACKET 88030100 SIGNAL R	HEAD, LED, 1-FACE, 3-SECTION, T MOUNTED		12	12					1 1									
BRACKET 88030100 SIGNAL H	T MOUNTED		12	12	Annual diseasan penassan				89502375	REMOVE EXISTING TRAFFIC SIGNAL	EACH	2	2			,		
88030100 SIGNAL H										EQUIPMENT	Andrew State of the State of th							:
	HEAD, LEO. 1-FACE, 5-SECTION,				and a second			And the second s										
	HEAD, LEO, 1-FACE, 5-SECTION,								89502380	REMOVE EXISTING HANDHOLE	EACH	26	26					
		EACH	4	4														
BRACKET	T MOUNTED							# P P P P P P P P P P P P P P P P P P P	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2	2					
99070110 CICNA	HEAD. LED. 1-FACE, 5-SECTION.	EACH	4	4					89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	19	19					
<u> </u>		LACH	1	7	-					ALIGNE EXTENSION SOCIONETE POSICIATION						·····		
MAST-ARI	RM MOUNTED							-	x0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE	FOOT	1666			1666			
88102717 PEDESTR	RIAN SIGNAL HEAD, LED, 1-FACE.	EACH	22	22					annahannan maaaannan	SENSOR CABLE, NO. 20 3/C	The same of the sa							
BRACKET	T MOUNTED WITH COUNTDOWN TIMER																	
		***					-	WAS ARREST TO THE PARTY OF THE	X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SO FT	1401	1401					1
88200410 TRAFFIC	C SIGNAL BACKPLATE, LOUVERED.	EACH	29	29				and the second second										
FORMED (PLASTIC							nover the novertheen the nover the novertheen the nover the nover the nover the novertheen the nover the nover the nover the novertheen the novere	X4403300	CONCRETE MEDIAN REMOVAL	SQ FT	729	729					
88500100 [NDUCT[)	(VE LOOP DETECTOR	EACH	23	23	1		***	100 mm	X8600105	MASTER CONTROLLER (SPECIAL)	EACH	3	3					
		mg al-	Table Of the Control				****		X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2	2					~
88600100 DETECTOR	OR LOOP. TYPE I	FOOT	1445	1445					X8710024	FIBER OPTIC CABLE IN CONDUIT, NO.	FOOT	3811	3811					
				N F PARENTAL AN MINISTER	Appa against passages	AAA AATINI VAAA MINIS			ALLE AND	62.5/125, MM12F SM24F								
88700200 LIGHT D	DETECTOR	EACH	6			6		-	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	168	158					
						SECULA MANUEL MA	-		Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL	EACH	2	2					· · · · · · · · · · · · · · · · · · ·
88700300 LIGHT 0	DETECTOR AMPLIFIER	EACH	2		THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF TH	2				t			TO THE PROPERTY OF THE PROPERT					
9990100 7505575	RIAN PUSH-BUTTON	EACH	19	19			THE PARTY OF THE P		20073510		EACH	2	2		*			
88800100 PEDESTR	NEMA FUSHTUUT TON	CHUN	19	13			s constant		20013798 X1460108	CONSTRUCTION LAYOUT FULL-ACTUATED CONTROLLER AND TYPE SUPER	C SUM EACH	2	2					·
	ARY TRAFFIC SIGNAL INSTALLATION	EACH	2	2	V-1				6	R CABINET (SPECIAL)								Rev.
FILE NAME :		DESIGNED -		REVISED				OTATE SE	· HIBIOTO	ILLINOIS ROUTE 21 AT ILLINOI	S ROUTE 58	AND GREET	WOOD A	VE RIE.				TOTAL SHEET SHEETS NO.
q:\pm_wcr#\pwlddVedexmarm\d0353875\RII	L-i	DRAWN - CHECKED -		REVISED REVISED		- Personal	DEPAR	STATE OF TMENT OF	· ILLINOIS TRANSPORTA	CURTESADA	OF QUANTI	TIES	O STA.	374	2014-	059-1	COOK CONTRACT	53 6 NO. 60Y78



EXISTING TYPICAL SECTION





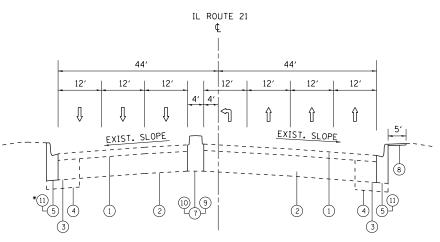
IL 21 AT GREENWOOD AVE (NW & SW INT.)
PROPOSED TYPICAL SECTION

NOTE:

NOTE:

SW CORNER:
PROPOSED PCC SIDEWALK, 5" TO TIE-IN WITH THE EXISTING PCC SIDEWALK ON GREGORY LANE.

NW CORNER:
PROPOSED HANDICAPPED RAMP WITH 5'
LANDING WILL BE CONSTRUCTED.



IL 21 AT GREENWOOD AVE (NE & SE INT.)
PROPOSED TYPICAL SECTION

NOTE:

SE CORNER:
PROPOSED HANDICAPPED RAMP TO
TIE-IN TO THE EXIT. PCC SIDEWALK.

NOTE:

IE CORNER:

PROPOSED PCC SIDEWALK, 5" TO TIE-IN

TO THE EXISTING BUS PAD.

LEGEND

- 1) EXISTING HMA SURFACING, ±4.5"
- 2 EXISTING PCC PAVEMENT
- 3 EXISTING PCC BASE COURSE
- 4 EXISTING STABILIZED SUB-BASE
- (5) EXISTING CC&G TYPE B-6.24
- 6 EXISTING PCC SIDEWALK
- 7) EXISTING CONCRETE BARRIER MEDIAN
- 8 PROPOSED PCC SIDEWALK, 5"
 (TIED-IN TO EXIST. PCC SIDEWALK)
- 9 PROPOSED CONCRETE MEDIAN (MONOLITHIC POURED MEDIAN)
- 10 PROPOSED MEDIAN REMOVAL
- PROPOSED CONC. COMB. C&G REM
 PROPOSED CONC. COMB. C&G B.6-24
 (LOCATIONS TO BE DETERMINED BY THE ENGINEER)

HOT-MIX ASPHALT MIXTURE REC	QUALITY MANAGEMENT										
MIXTURE TYPE	AIR VOIDS (%) @ NDES	PROGRAM (QMP)									
IL 59: HMA DRIVEWAY (C.E.)											
HMA SURFACE COURSE MIX "D", N50, (IL 9.5mm), 2"	4% @ 50 GYR.	QC/QA									
HMA BASE COURSE (HMA BINDER IL-19mm), 8" 4% © 50 GYR. OC/QA											
PATCHING											
CLASS D PATCHES 13" (HMA BINDER IL-19 MM) 4% @ 70 GYR. OC/QA											
CLASS D PATCHES 2" (IL-19 MM)	4% @ 50 GYR.	OC/OA									
QMP DESIGNATION QUALITY CON QUALITY CONTROL F											

NOTE.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 POUND PER SQUARE YARD-INCH

THE "AC TYPE" FOR NON-POLYMERIZED HMA
THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED
BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

COUNTY TOTAL SHEETS NO.

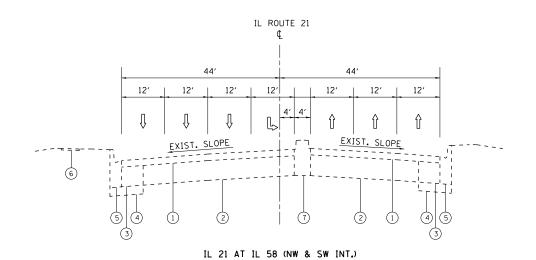
COOK 53 7

CONTRACT NO. 60Y78

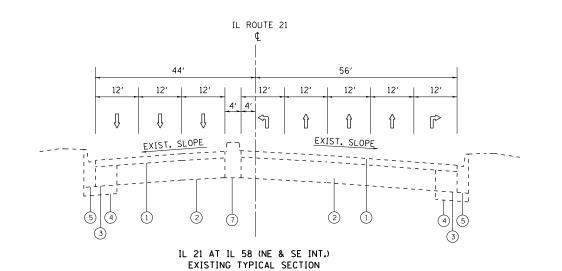
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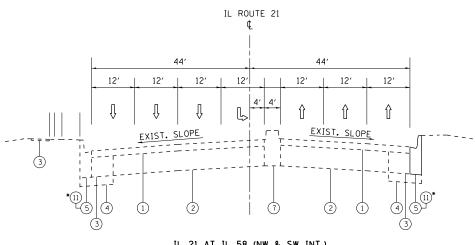
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

		TYPICA	L SECTI	ONS			F.A.U RTE.	SECTION
ILLIMOIS RO	IITF 21 ΔT	HILIMOIS	ROUT	- 52 ΔNI	D GREENWOOD	ΔVF	347	2014-059-I
ILLINOID IIO	OIL ZI AI	ILLIIVOIO	110011	- JU AIV	D GIILLIAWOOD	AVL		
SCALE: 1" - 50"	SHEET	ΩE	SHEETS	STA	TO STA			TI I INOTE



EXISTING TYPICAL SECTION

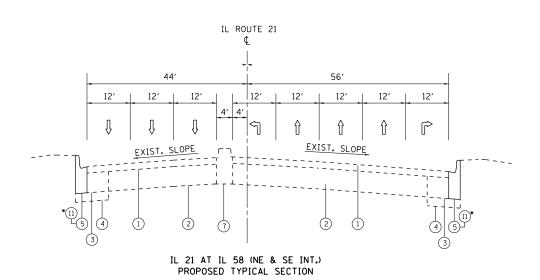




IL 21 AT IL 58 (NW & SW INT.) PROPOSED TYPICAL SECTION

NOTE:

NW CORNER:
PROPOSED HANDICAPPED RAMP
WILL BE CONSTRUCTED.



NOTE:

SE CORNER:
PROPOSED HANDICAPPED RAMP
WILL BE CONSTRUCTED.

NOTE:

NE CORNER:
PROPOSED HANDICAPPED RAMP
WILL BE CONSTRUCTED.

Default	PLOT DATE = 5/19/2015	DATE -	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		TYPICAI	. SECTI	ONS				F.
ILLINOIS RO	UTE 21 AT	ILLINOIS	ROUTE	58	AND	GREENWOOD	AVE	E
CALE: 1" - 50"	SHEET	ΩF	SHEETS	STA		TO STA		-

LEGEND

3

4

(5)

6

10

EXISTING HMA OVERLAY, ±2.5"

EXISTING PCC PAVEMENT, ±10"

EXISTING STABILIZED SUB-BASE

EXISTING CONCRETE BARRIER MEDIAN
PROPOSED PCC SIDEWALK, 5"
(TIED-IN TO EXIST. PCC SIDEWALK)

PROPOSED CONC. COMB. C&G REM
PROPOSED CONC. COMB. C&G B.6-24
(LOCATIONS TO BE DETERMINED BY THE ENGINEER)

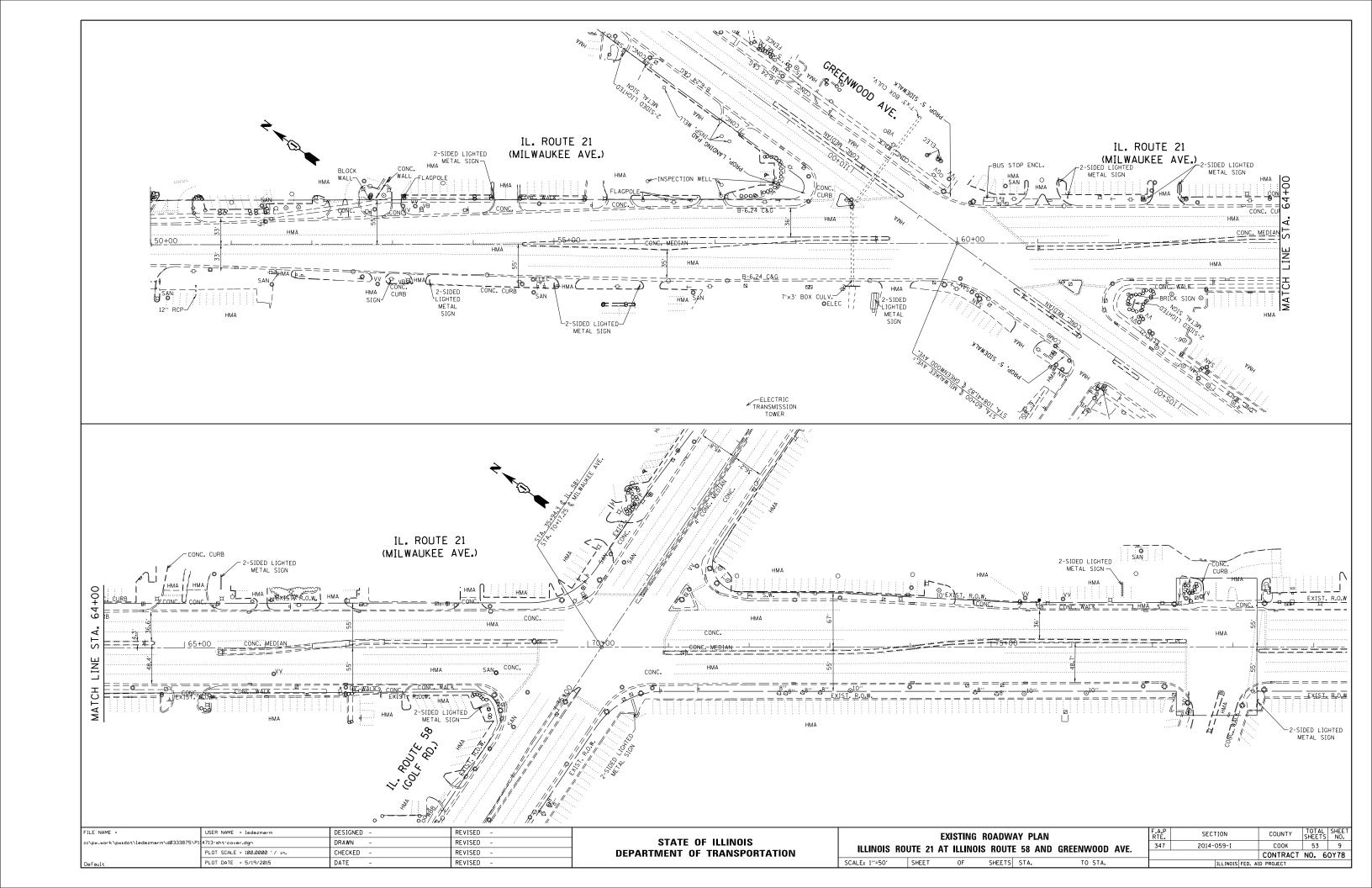
EXISTING PCC BASE COURSE

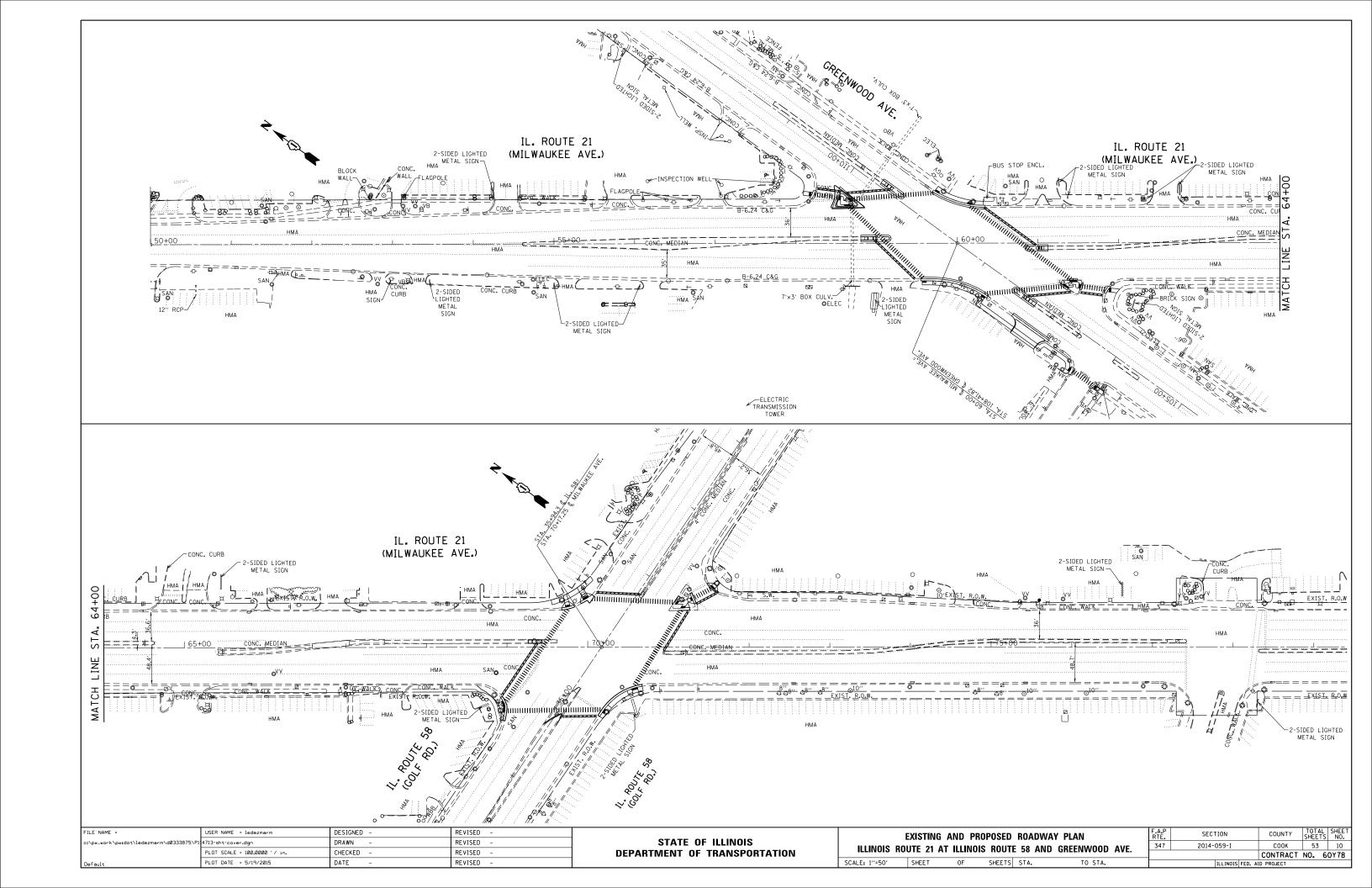
EXISTING CC&G TYPE B-6.24

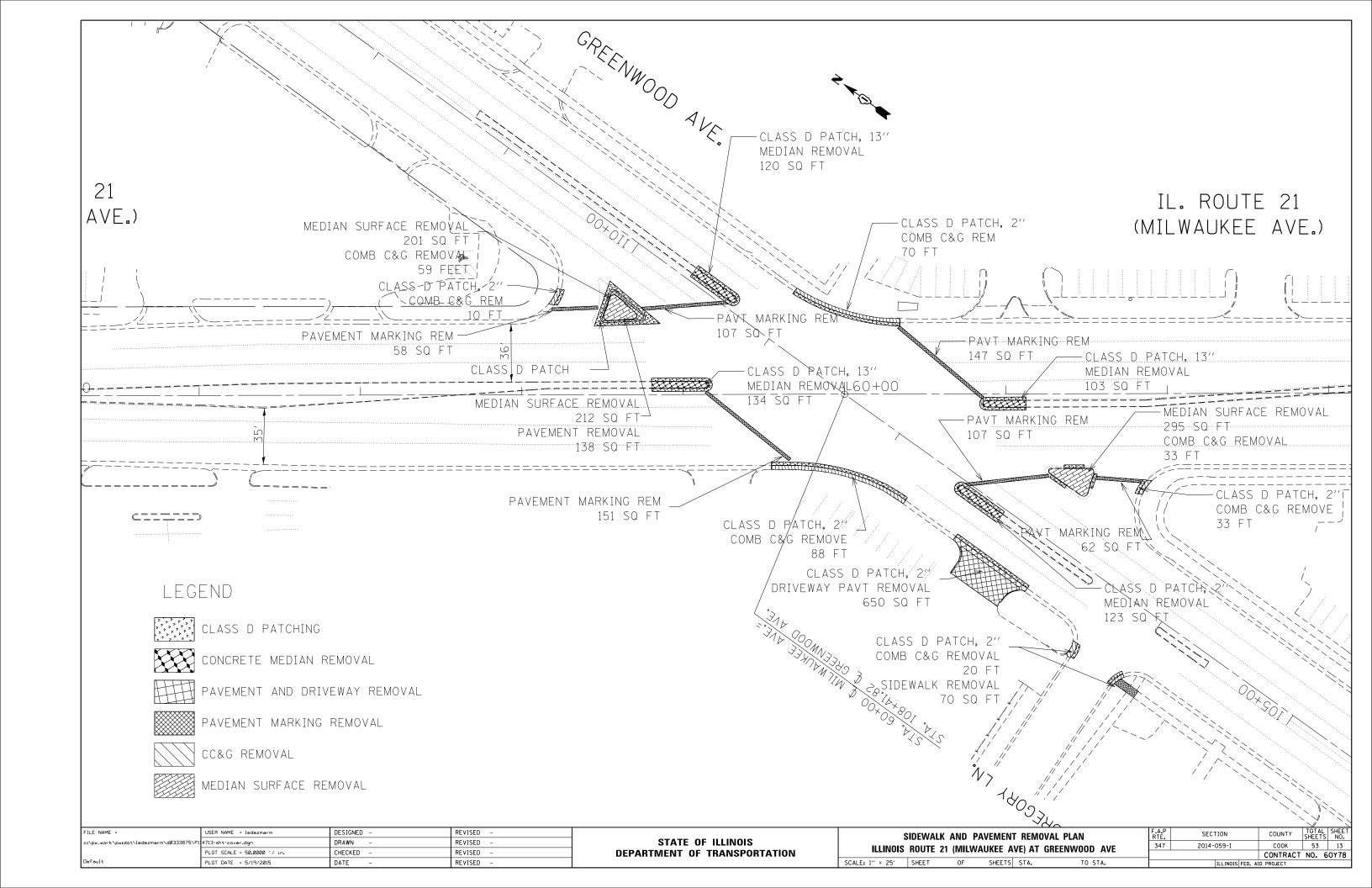
PROPOSED CONCRETE MEDIAN (MONOLITHIC POURED MEDIAN)

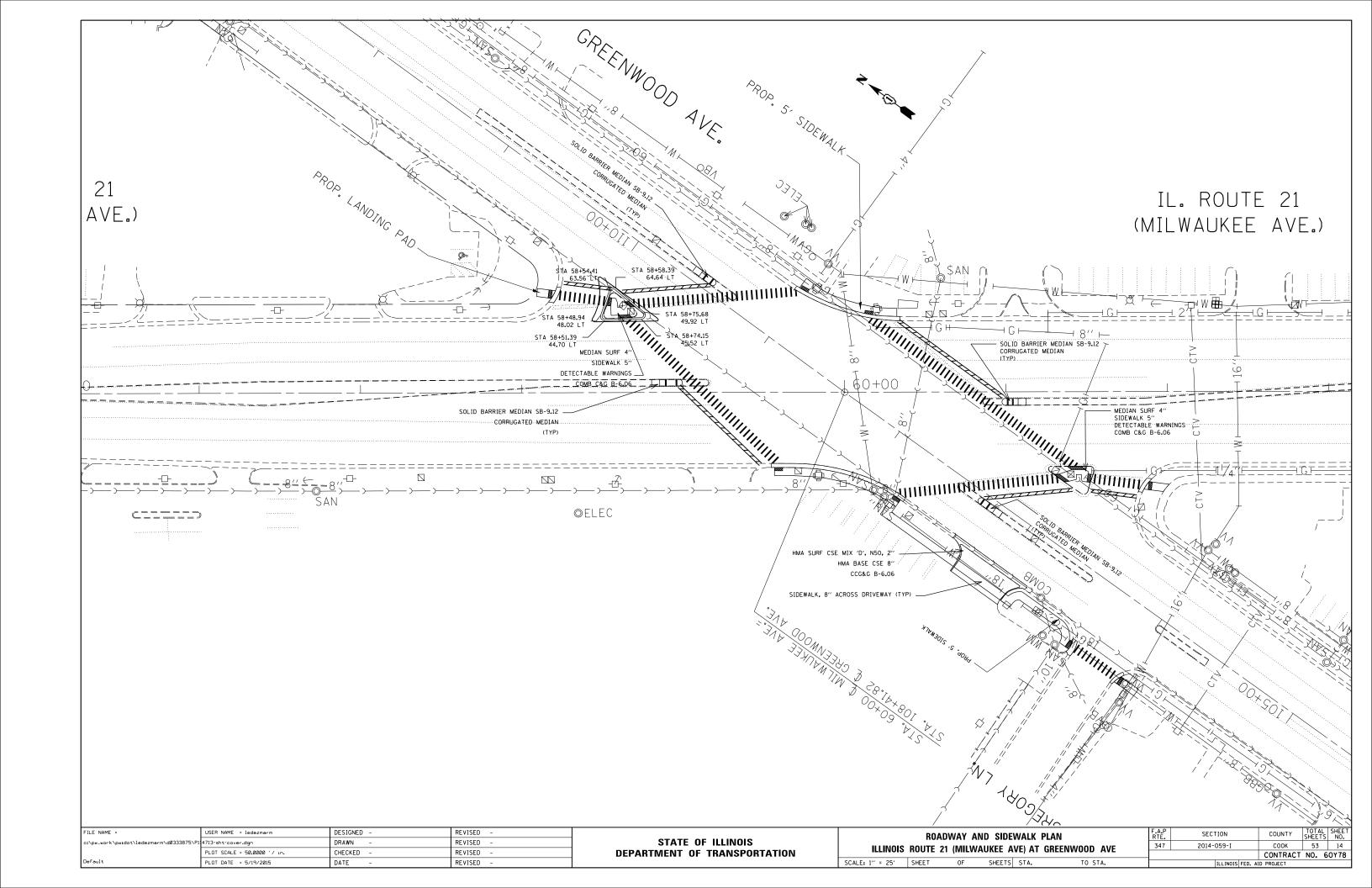
PROPOSED MEDIAN REMOVAL

EXISTING PCC SIDEWALK









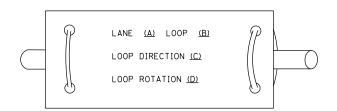
TRAFFIC SIGNAL LEGEND

								I			
<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R	\bowtie	\blacksquare	EMERGENCY VEHICLE LIGHT DETECTOR	$\stackrel{R}{\lessdot}\!$	\bowtie	~	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET		₹ <mark>></mark> ₹	R►◆R	CONFIRMATION BEACON	R_{O-O}	0-()	•				_
COMMUNICATIONS CABINET	C C	ECC	СС	HANDHOLE	R □			COAXIAL CABLE		<u> </u>	<u> </u>
MASTER CONTROLLER		EMC	MC	HANDHOLE						\prec	
MASTER MASTER CONTROLLER	Б	EMMC	ммс	HEAVY DUTY HANDHOLE	R	H	H	VENDOR CABLE FOR CAMERA			
UNINTERRUPTABLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u>—_6</u>	<u> </u>
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	-□- ^R	-□- ^P	- ■ P	JUNCTION BOX	R		0	FIBER OPTIC CABLE		/	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				NO. 62.5/125, MM12F FIBER OPTIC CABLE		— <u>(</u> 2F)— — <u>(</u> 24F)—	—24F)—
STEEL MAST ARM ASSEMBLY AND POLE	R	0	•——	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				NO. 62.5/125, MM12F SM12F		چ <u>پ</u>	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE		<u> </u>	—(36F)—
STEEL COMBINATION MAST ARM	D	~ ~	_ ~	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NO. 62.5/125, MM12F SM24F		900	
ASSEMBLY AND POLE WITH LUMINAIRE	"○-≭——	O -X	• ×	SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		с «III—»	c∥⊢
STEEL COMBINATION MAST ARM	R _Q	Q	PTZ I ¶	INTERSECTION ITEM		I	ΙP	OR (S) SERVICE		"	" -
ASSEMBLY AND POLE WITH PTZ CAMERA SIGNAL POST		0	•	REMOVE ITEM	R			CONTROLLER CABINET AND	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R O R_	⊗	∞	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED			
BETTER) 45 FOOT (13.7m) MINIMUM	``⊗	₩	•	ABANDON ITEM	А			STEEL MAST ARM POLE AND	RMF		
GUY WIRE	>R	>	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD	R	\rightarrow	-	10% (700) DED WITH 0% (000)		R		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			→ ²	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE			_	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O→X		
SIGNAL HEAD WITH BACKPLATE	+C ^R	+->	+-			R	R	FOUNDATION TO BE REMOVED	<u> </u>		
SIGNAL HEAD OPTICALLY PROGRAMMED	R —[>′′P′′	— □> ′′p′′	→ "P"	SIGNAL FACE		6	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF O		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O- ⊳ ″F″	O-t>"F"	●► "F"			€)	← Y ← G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS I	IS
PEDESTRIAN SIGNAL HEAD	R -П	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		 	S
PEDESTRIAN PUSHBUTTON DETECTOR	R ©	©	<u> </u>	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			Y	OUEUE DETECTOR		[<u>0</u>]	0
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	APS O O O O O O O O O O O O O	"RB" INDICATES REFLECTIVE BACKPLATE		(+ Y)	4 Y 4 G			(= '	
ILLUMINATED SIGN	R					"P"	"P"	PREFORMED QUEUE DETECTOR		<u>į Poj</u>	PO
"NO LEFT TURN"	B		lacktriangle	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(DW) (W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"	R			12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS I	PS
DETECTOR LOOP, TYPE I		<u> </u>		INTERNATIONAL SYMBOL, OUTLINED				2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		fi	11
,		7 v	P	12" (300mm) PEDESTRIAN SIGNAL HEAD		(*)	•	RAILROAD	CANADA	ni e	
PREFORMED DETECTOR LOOP		1 P 1	P	INTERNATIONAL SYMBOL, SOLID			K	nAILNUAD	STIVID	JLO	
MICROWAVE VEHICLE SENSOR	R MJ	MI	M	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		© C	₽ C * D			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R V	(V)	(V)•	RADIO INTERCONNECT	 	##+		RAILROAD CONTROL CABINET			R
VIDEO DETECTION ZONE					1.	'		RAILROAD CANTILEVER MAST ARM		XOX X	X QX XX
	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL			
PAN, TILT, ZOOM CAMERA		PIZ)	₽IZ I	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,				CROSSING GATE		X 0 X>	X ⊕ X ►
WIRELESS DETECTOR SENSOR	RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		-/		CROSSBUCK		<u> </u>	*
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1	Choosedon			
LE NAME = USER NAME = ledezmarm \pw_work\pwidot\ledezmarm\d0333875\DistStd.dqn		DESIGNED - DAG/BCK DRAWN - BCK	REVISED REVISED	- DAG 1-1-14 - STATE	OF ILLINOI	s		DISTRICT ONE	F.A RTE.	SECTION	COUNTY TOTAL SHEETS
PLOT SCALE = 100.0000 '/	ın.	CHECKED - DAD	REVISED	DEPARTMENT				STANDARD TRAFFIC SIGNAL DESIGN DETAILS	347	2014-059-I TS-05	COOK 53 CONTRACT NO. 60

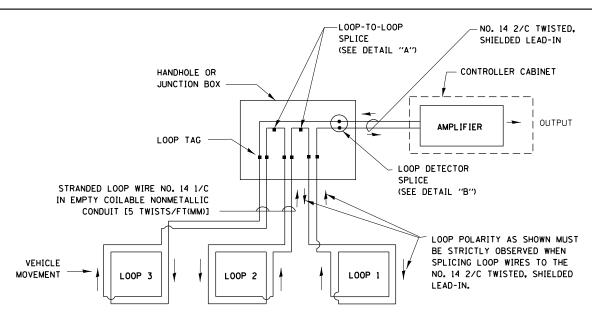
LOOP DETECTOR NOTES

- 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

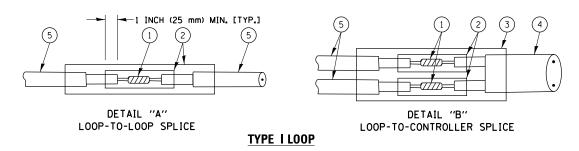


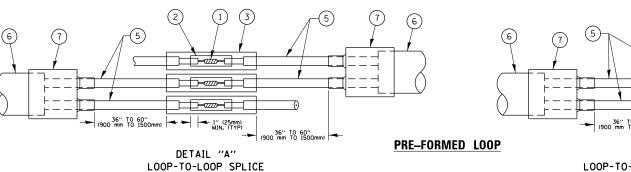
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



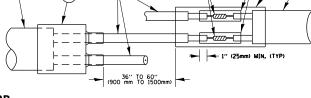


LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (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.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

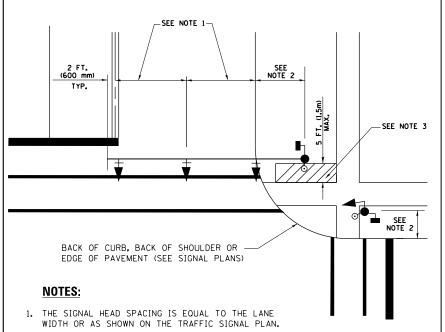
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR The BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

- 1	FILE NAME =	USER NAME = ledezmarm	DESIGNED	-	DAD	REVISED	-	DAG 1-1-14
-	c:\pw_work\pwidot\ledezmarm\d0333875\Di	stStd.dgn	DRAWN	-	BCK	REVISED	-	
-		PLOT SCALE = 100.0000 ' / in.	CHECKED	-	DAD	REVISED	-	
l		PLOT DATE = 5/19/2015	DATE	-	10-28-09	REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

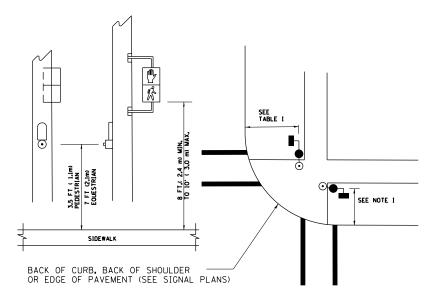
DIST	TRICT ON	VE.		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC	CICNAL	. DESIGN DETAI	II e	347	2014-059-I	соок	53	16
STANDARD TRAFFIC	SIGNAL	. DESIGN DETAI	iLo		TS-05	CONTRACT	NO.	60Y78
SHEET NO 2 OF 7	CHEETC	CTA	TO STA	FF0 D	DICT NO 4 THE PROJECT FEB. 41	D DDG IFOT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALKBICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



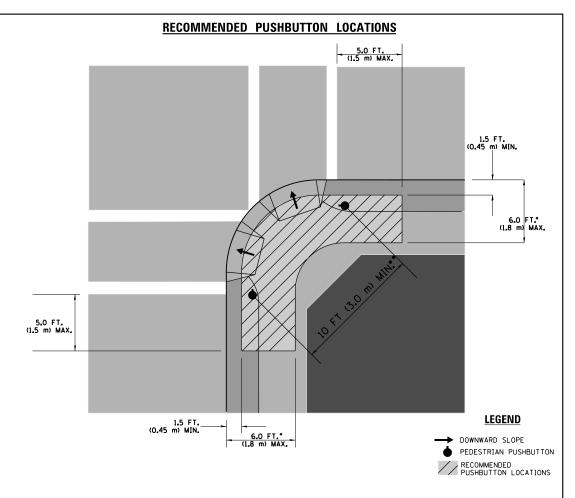
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO 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."

<u>PEDESTRIAN SIGNAL POST</u> <u>AND</u> 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 FACILITIES."



- 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.
- 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.

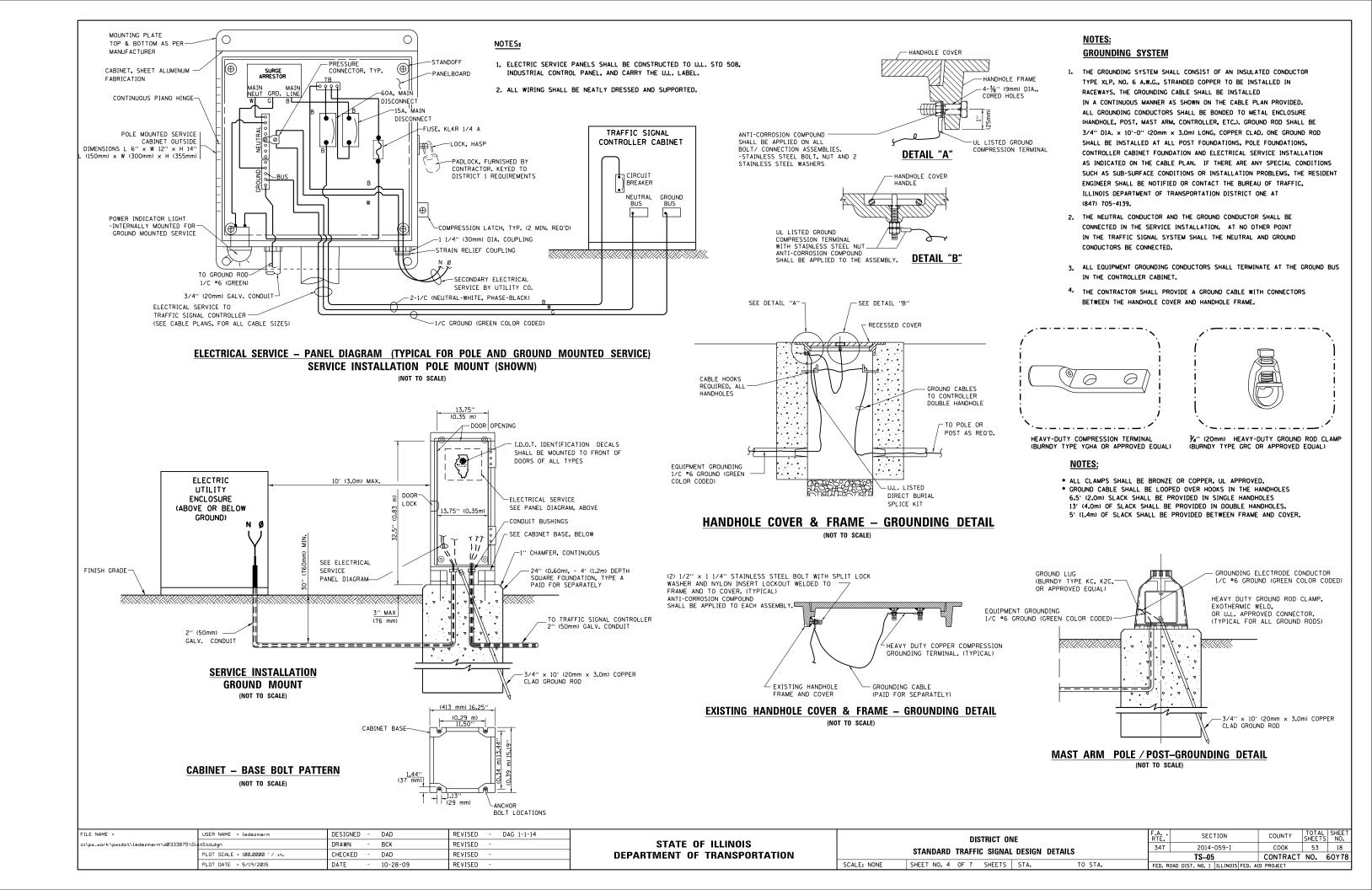
TRAFFIC SIGNAL EQUIPMENT OFFSET

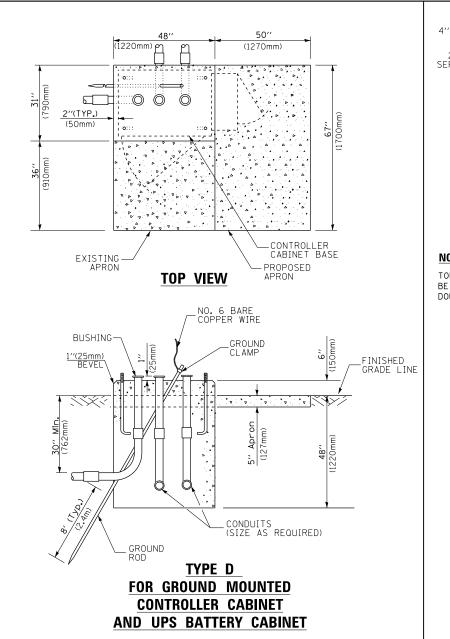
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

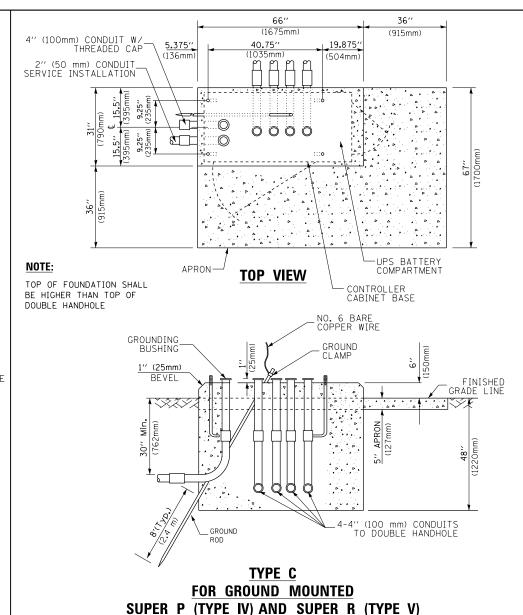
NOTES:

- 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 TOTHE 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 - DAD FILE NAME : REVISED DAG 1-1-14 USER NAME = ledezmarm SECTION COUNTY DISTRICT ONE ::\pw_work\pwidot\ledezmarm\d0333875\ tStd.dar DRAWN BCK REVISED STATE OF ILLINOIS 347 2014-059-1 COOK 53 17 STANDARD TRAFFIC SIGNAL DESIGN DETAILS LOT SCALE = 100.0000 '/ in. CHECKED DAD REVISED **DEPARTMENT OF TRANSPORTATION** TS-05 CONTRACT NO. 60Y78 SHEET NO. 3 OF 7 SHEETS STA. SCALE: NONE REVISED TO STA. PLOT DATE = 5/19/2015 DATE 10-28-09 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT







SUPER P (TYPE IV) AND SUPER R (TYPE V) **CONTROLLER CABINETS**

SEE NOTE 5 WOOD FRAMING (TYP.) TRAFFIC SIGNAL CONTROLLER CABINET Y4" (19mm) TREATED PHYWOOD DECK 2" x 6" (51mm x 152mm) NIM x 152mm) REATED WOOD REATED W
NOTES: 6" x 6" (152mm x 152mm) TREATED WOOD POSTS
DISER ON CONTROL ED CARRIET TYPE IN WITH BASE PRINCIPLES OF CONTROL AND CONTRO

- 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
	HANDHOLE DOUBLE HANDHOLE SIGNAL POST MAST ARM CONTROLLER CABINET FIBER OPTIC AT CABINET ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION) GROUND CABLE (SIGNAL POST, MAST ARM, CABINET) GROUND CABLE	HANDHOLE 6.5 DOUBLE HANDHOLE 13.0 SIGNAL POST 2.0 MAST ARM 2.0 CONTROLLER CABINET 13.0 FIBER OPTIC AT CABINET 13.0 ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION) GROUND CABLE (SIGNAL POST, MAST ARM, CABINET) 1.5 GROUND CABLE 5.0

VERTICAL 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
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE 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
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

CABLE SLACK		

FOUNDATION	DEPTH
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 - SOUARE	4'-0'' (1.2m)

DEPTH OF FOUNDATION

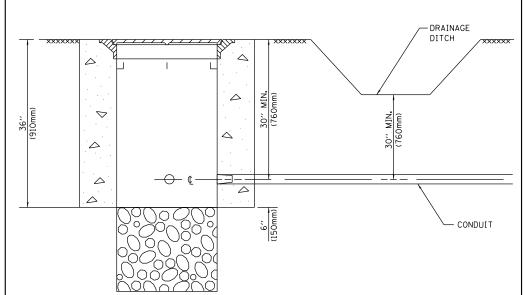
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30'' (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	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:

- 1. 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 (Ou) > 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 mast 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 most arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

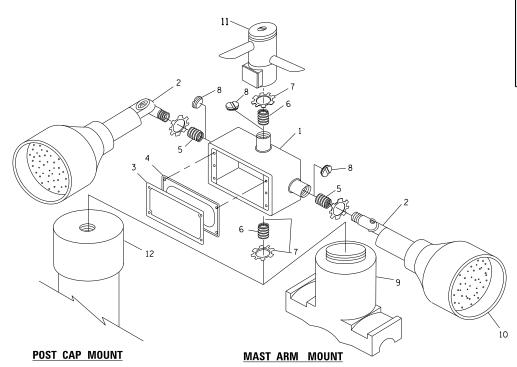
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c:\pw_work\pwidot\ledezmarm\d0333875\Di	tStd.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			T T	347	2014-059-I	COOK	53	19	\exists
	PLOT SCALE = 100.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS				TS-05	CONTRACT	T NO.	60Y7	
	PLOT DATE = 5/19/2015	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS STA. TO STA.		ED. ROAD DIST		D PROJECT			\exists



NOTES:

- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH (NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

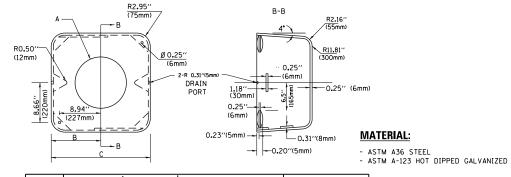
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	PLOT SCALE = 100.0000 '/ in.	CHECKED	-	DAD	REVISED	-		
	PLOT DATE = 5/19/2015	DATE	-	10-28-09	REVISED	-		

(1675mm) (915mm) 19.875" 5.375" 40.75" (136mm) (1035mm) (504mm \bigcirc PROPOSED -APRON -CONTROLLER CABINET BASE **TOP VIEW** NO. 3 DOWEL 18" (450mm) LONG (8 REQ.) BUSHING -_GROUND CLAMP / EXISTING ANCHOR BOLTS 1''(25mm) BEVEL GRADE LINE (3OOmm) -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION (NOT TO SCALE)

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 ¼''(19 mm) CLOSE NIPPLE 7 ¼''(19 mm) LOCKNUT 8 ¼''(19 mm) HOLE PLUG 9 SADDLE BRACKET - CALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- 1. 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 3/4 "(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.

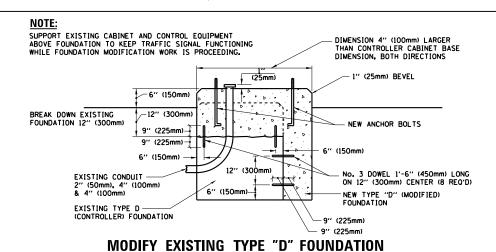


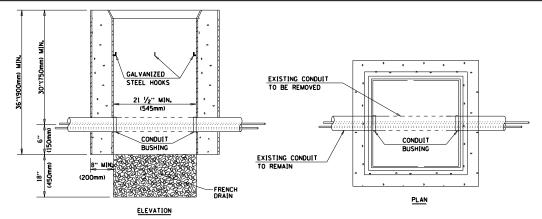
A	В	С	WEIGHT	
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0′′(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5′′(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

NOTES:

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



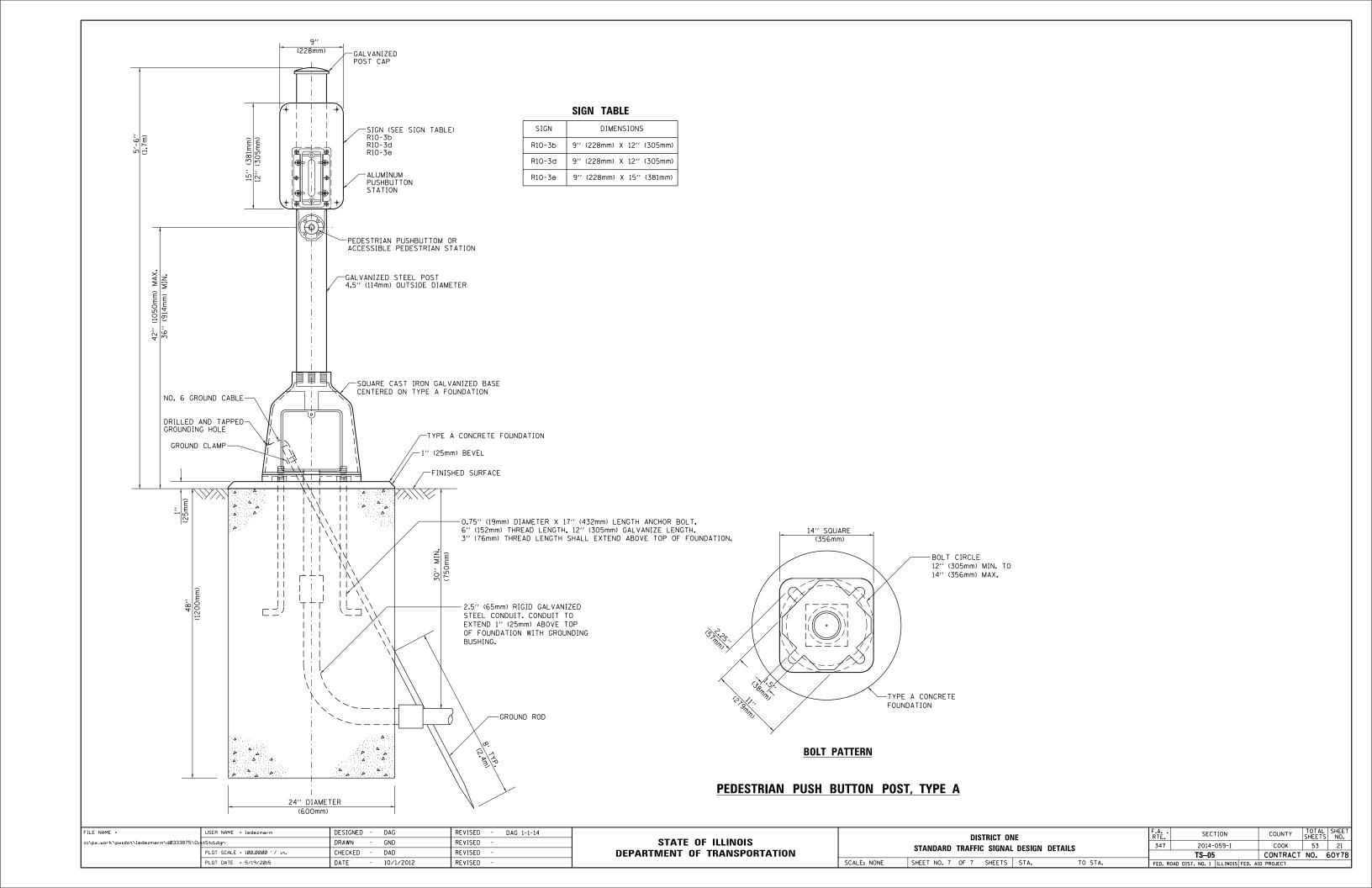


NOTES:

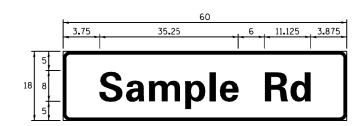
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

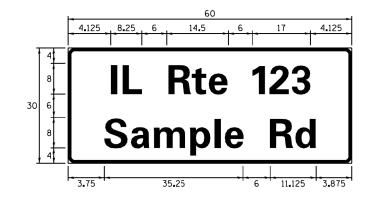
HANDHOLE TO INTERCEPT EXISTING CONDUIT

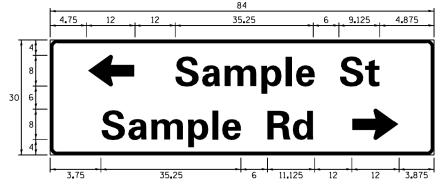
OTATE OF HUMOIO	DISTRICT ONE				F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS				347	2014-059-I	COOK	53	20	
DEPARTMENT OF TRANSPORTATION					TS-05	CONTRACT	NO.	60Y78		
	SCALE: NONE	SHEET NO. 6 OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



SIGN PANEL - TYPE 1 OR TYPE 2







DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D OR C	-	1 OR 2	ZZ	

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH	(INCH)
NAME	ADDREVALION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	C†	8. 250	9. 625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8. 250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	PI	7. 125	7. 750
ROAD	Rd	9.625	11.125
ROUTE	R†e	12.625	14.500
STREET	S†	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7. 750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUX OF 8'-O" IN WIDTH, IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
- 5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

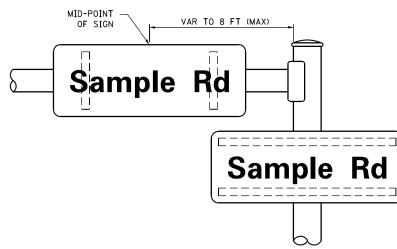
LOCAL SUPPLIERS: PARTS LISTING:

- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL SIGN SCREWS	PART #HPN053 (MED. CHANNEL) 1/4" × 14 × 1" H.W.H. #3
		SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC.	BRACKETS	PART #HPNO34 (UNIVERSAL)
WOODRIDGE, IL		CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

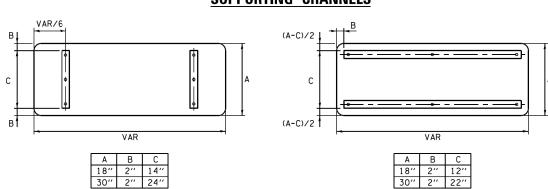
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION





SUPPORTING CHANNELS



SCALE:

STANDARD ALPHABETS SPACING CHART

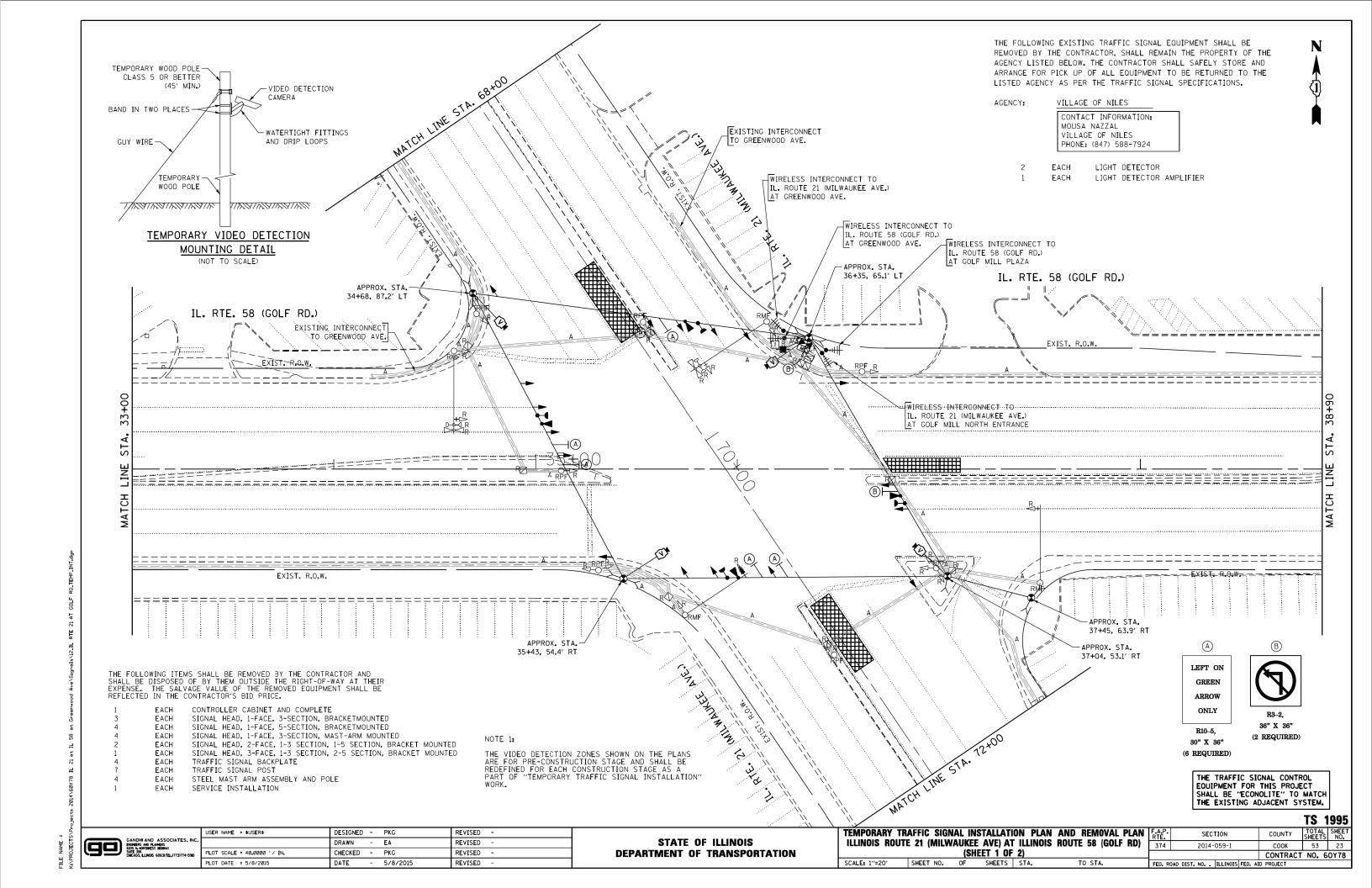
(8") UPPER CASE AND (6") LOWER CASE

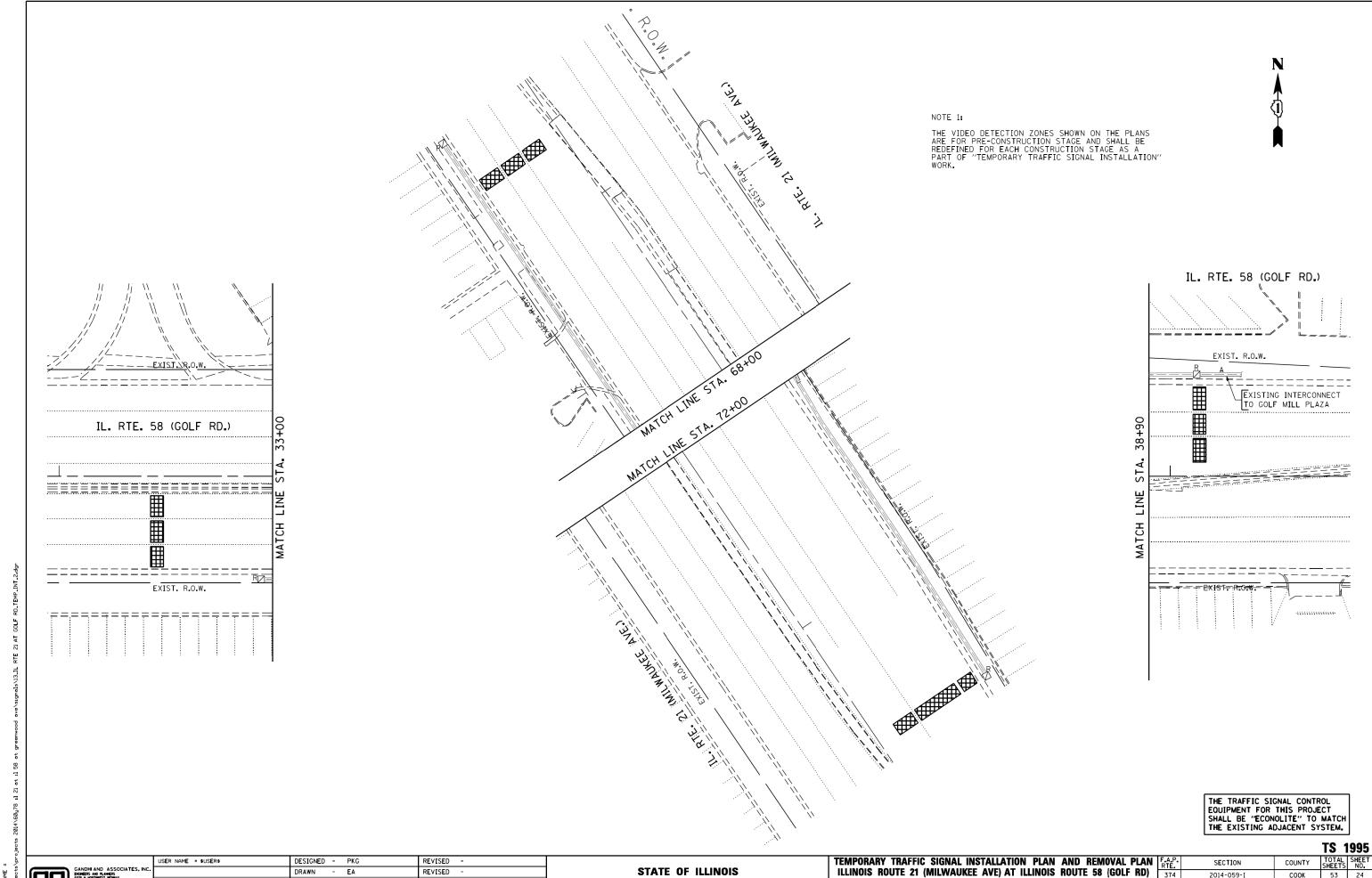
	FHWA SEF	RIES "C"		FHWA SERIES "D"					
CHARACTER	(INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	(INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		
A	0.240	5.122	0.240	Α	0.240	6.804	0.240		
В	0.880	4.482	0.480	В	0.960	5.446	0.400		
С	0.720	4.482	0.720	С	0.800	5.446	0.800		
D	0.880	4.482	0.720	D _	0.960	5.446	0.800		
E	0.880	4.082	0.480	E	0.960	4.962	0.400		
F G	0.880 0.720	4.082 4.482	0.240 0.720	F G	0.960 0.800	4.962 5.446	0.240		
Н	0.120	4.482	0.120	H	0.960	5.446	0.960		
I	0.880	1.120	0.880	I	0.960	1. 280	0.960		
J	0.240	4.082	0.880	J	0.240	5.122	0.960		
K	0.880	4.482	0.480	K	0.960	5, 604	0.400		
L	0.880	4.082	0.240	L	0.960	4.962	0.240		
М	0.880	5. 284	0.880	М	0.960	6. 244	0.960		
N	0.880	4.482	0.880	N	0.960	5.446	0.960		
0	0.720	4.722	0.720	0	0.800	5.684	0.800		
Р	0.880	4.482	0.720	Р	0.960	5.446	0.240		
Q	0.720	4.722	0.720	a	0.800	5.684	0.800		
R	0.880	4.482	0.480	R	0.960	5.446	0.400		
S	0.480	4.482	0.480	S	0.400	5.446	0.400		
T	0.240	4.082	0.240	T	0.240	4.962	0.240		
U V	0.880	4.482	0.880	U V	0.960	5.446	0.960		
W	0.240 0.240	4.962	0.240	W W	0.240	6.084 7.124	0.240 0.240		
X	0.240	6.084 4.722	0.240 0.240	X	0.240 0.400	5.446	0. 400		
Y	0.240	5. 122	0.240	Ŷ	0.400	6. 884	0.400		
Z	0.480	4. 482	0.480	Z	0.400	5.446	0.400		
0	0.320	3.842	0.640	0	0.400	4.562	0.720		
Ь	0.720	4.082	0.480	ь	0.800	4.802	0.480		
С	0.480	4.002	0.240	С	0.480	4. 722	0. 240		
d	0.480	4.082	0.720	d	0.480	4.802	0.800		
е	0.480	4.082	0.320	е	0.480	4.722	0.320		
f	0.320	2.480	0.160	f	0.320	2.882	0.160		
g	0.480	4.082	0.720	g	0.480	4.802	0.800		
h	0.720	4.082	0.640	h	0.800	4.722	0.720		
ī	0.720	1.120	0.720	i	0.800	1.280	0.800		
j	0.000	2.320	0.720	j	0.000	2.642	0.800		
k	0.720	4. 322	0.160	k	0.800	5.122	0.160		
1	0.720	1.120	0.720	1	0.800	1.280	0.800		
m	0.720 0.720	6. 724 4. 082	0.640 0.640	m	0.800 0.800	7. 926 4. 722	0.720 0.720		
n 0	0.120	4.082	0.480	n 0	0.480	4. 882	0.120		
P	0.720	4. 082	0.480	P	0. 400	4. 802	0.480		
q	0.480	4. 082	0.720	q	0.480	4. 802	0.800		
r	0.720	2.642	0.160	r	0.800	3.042	0.160		
S	0.320	3. 362	0.240	S	0.320	3. 762	0.240		
t	0.080	2.882	0.080	†	0.080	3. 202	0.080		
U	0.640	4.082	0.720	u	0.720	4.722	0.800		
٧	0.160	4.722	0.160	٧	0.160	5.684	0.160		
w	0.160	7. 524	0.160	w	0.160	9.046	0.160		
X	0.000	5. 202	0.000	×	0.000	6. 244	0.000		
У	0.160	4.962	0.160	У	0.160	6.004	0.160		
Z	0.240	3. 362	0.240	Z	0.240	4.002	0.240		
1	0.720	1.680	0.880	1	0.800	2.000	0.960		
2	0.480	4.482	0.480	2	0.800	5.446	0.800		
3	0.480 0.240	4.482	0.480	3	1.440	5.446	0.800 0.960		
5	0.240	4.962 4.482	0.720 0.480	5	0.160 0.800	6.004 5.446	0. 960		
6	0.480	4.482	0.480	6	0.800	5.446	0.800		
7	0. 120	4.482	0.720	7	0.560	5.446	0.560		
8	0.480	4. 482	0.120	8	0.800	5.446	0.800		
9	0.480	4.482	0.480	9	0.800	5.446	0.800		
0	0.720	4. 722	0.720	0	0.800	5. 684	0.800		
-	0.240	2.802	0.240	-	0.240	2.802	0.240		

FILE NAME = DESIGNED - LP/IP REVISED -USER NAME = pociechal S:\WP\Design\Manuals and Reference N ials\CADD\Details\ts02.don DRAWN - LP REVISED PLOT SCALE = 100.0000 '/ 10. CHECKED - IP REVISED -PLOT DATE = 9/22/2014 DATE - 10/01/2014 REVISED

STATE OI	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS					F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
					374	2014-059-I	COOK	53	22	
INIAST ANIM INIOUNTED STREET NAIME SIGNS				TS-02 CONTRACT)Y78		
	I SHFFT	٥F	SHEETS	STA.	TO STA.		THE TWO IS FED. A	IN DROJECT		





GANDHI AND ASSOCIATES,
BIGGREENS AND PLANGERS
GOSTA, MORTHWEST HIGHBAY
SUITE 306
GOSTAGO, CLENOS 60631 TEL,1773/774-

PLOT SCALE = 40.0000 '/ IN. CHECKED - PKG REVISED - 5/8/2015 PLOT DATE = 5/8/2015 DATE REVISED

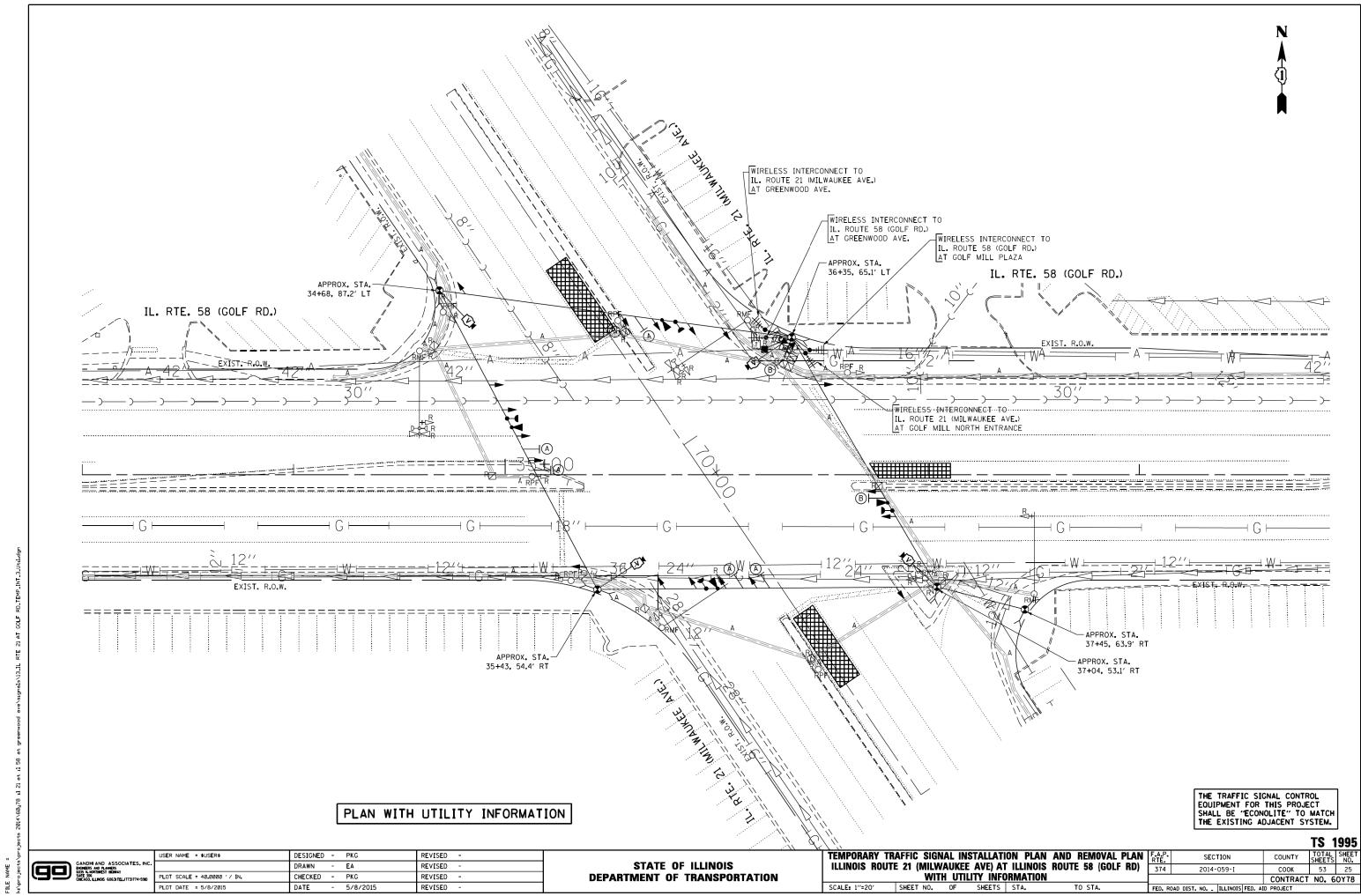
DEPARTMENT OF TRANSPORTATION

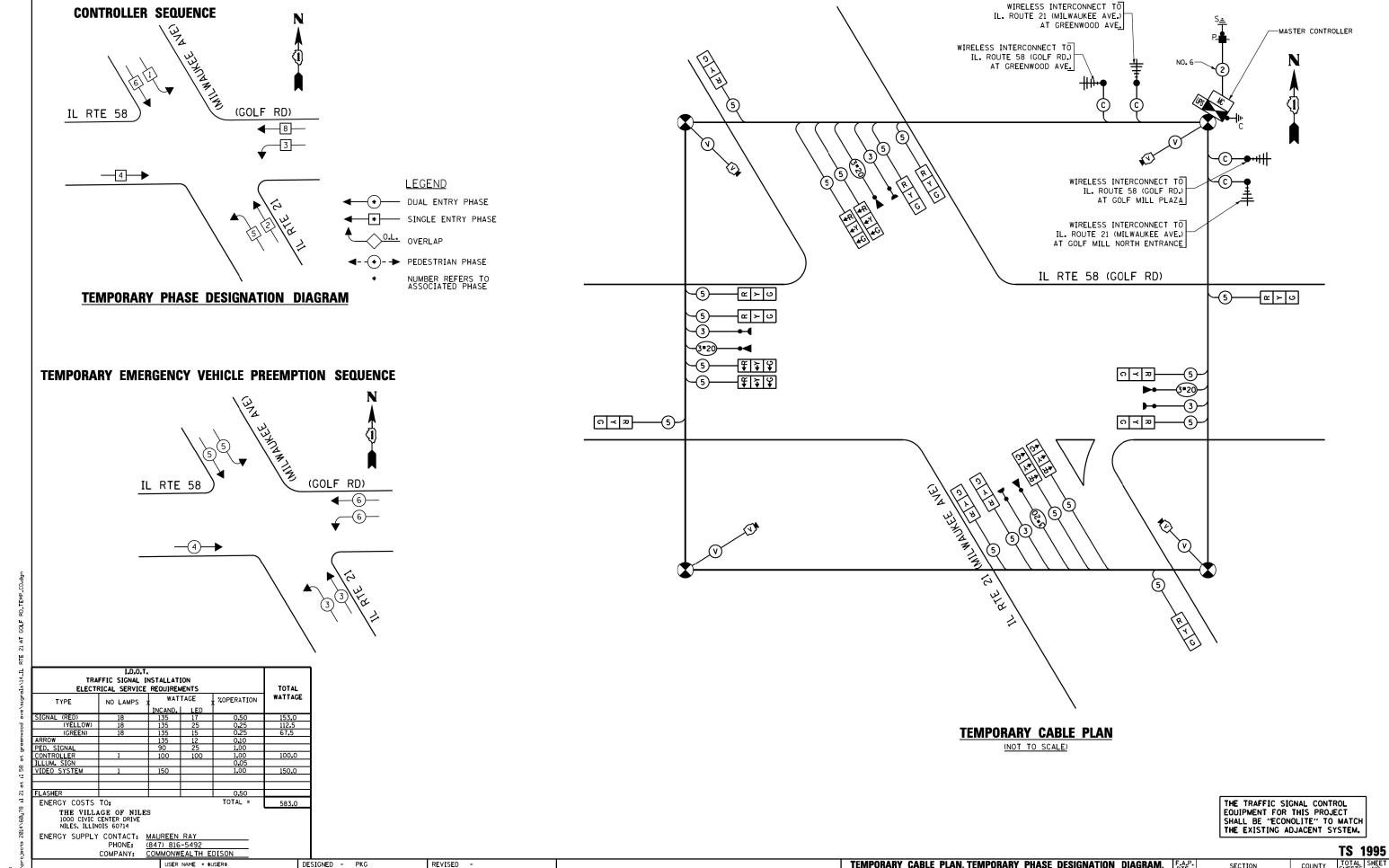
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN ILLINOIS ROUTE 21 (MILWAUKEE AVE) AT ILLINOIS ROUTE 58 (GOLF RD)

(SHEET 2 OF 2)

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

COUNTY TOTAL SHEET NO.
COOK 53 24
CONTRACT NO. 60Y78 2014-059-I





STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DRAWN

DATE

PLOT SCALE = 40.0000 '/ IN.

PLOT DATE = 5/8/2015

ENGNEERS AND PLANERS
6035 N. MORTHWEST HICHMAY
SUITE 306
CHICAGO, LLINOIS 60631 TEL,I

- FA

- 5/8/2015

CHECKED - PKG

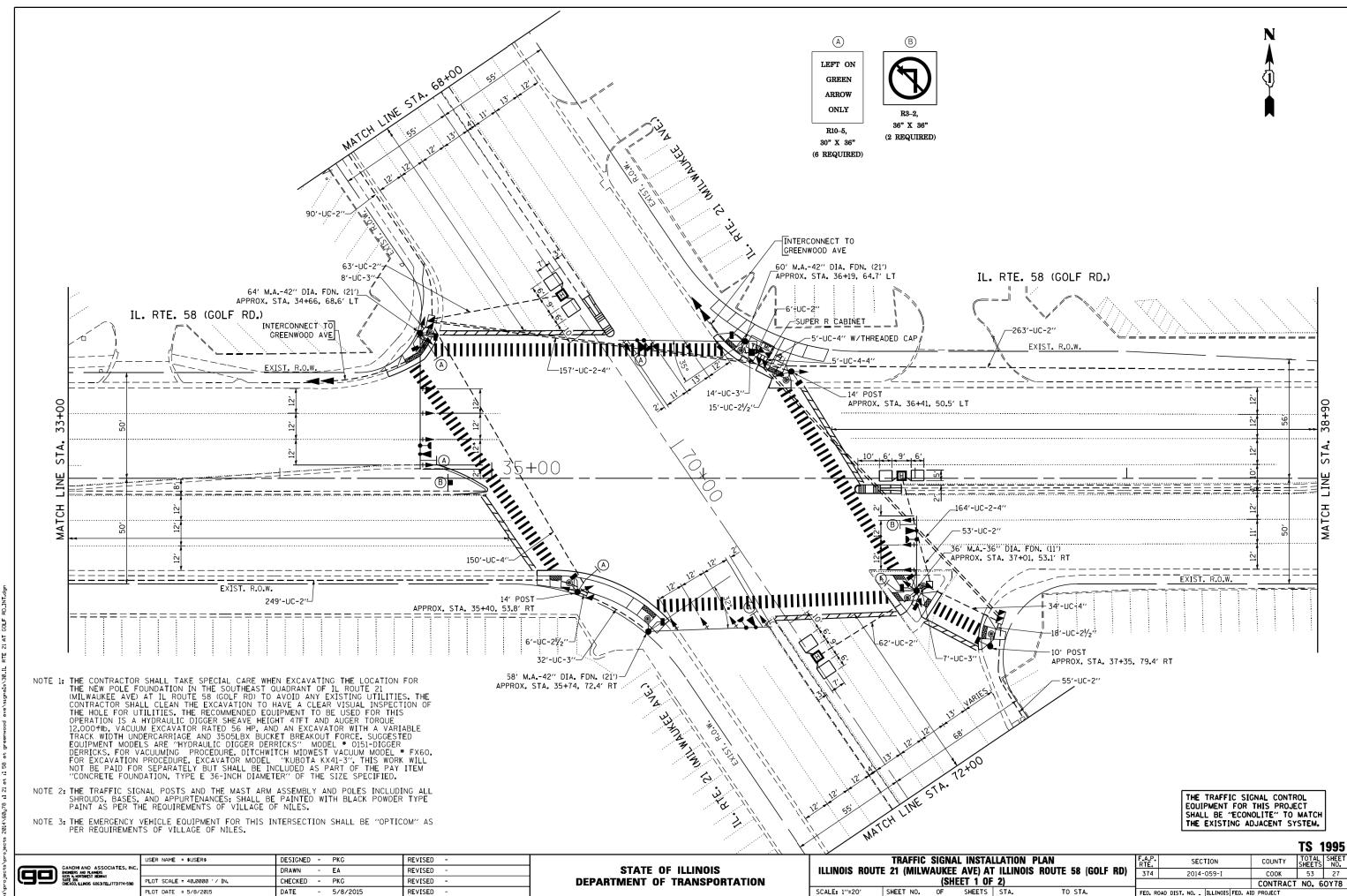
REVISED

REVISED

REVISED

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE ILLINOIS ROUTE 21 (MILWAUKEE AVE) AT ILLINOIS ROUTE 58 (GOLF RD) SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

COUNTY TOTAL SHEET NO. COOK 53 26 SECTION 374 2014-059-I CONTRACT NO. 60Y78 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT



GANDHI AND ASSOC BINGHERS AND PLANNERS 6035 N. NORTHWEST HIGHNAY SUITE 306 CMCAGO, LLINDIS 60631 TEL.

- EA REVISED PLOT SCALE = 40.0000 '/ IN. CHECKED - PKG REVISED - 5/8/2015 PLOT DATE = 5/8/2015 DATE REVISED

DEPARTMENT OF TRANSPORTATION

(SHEET 2 OF 2)
OF SHEETS STA. SCALE: 1"=20"

374

COUNTY TOTAL SHEETS NO.
COOK 53 28
CONTRACT NO. 60Y78 2014-059-I

ENGNEERS AND PLANERS
6035 N. MORTHWEST HICHMAY
SUITE 306
CHICAGO, LLINOIS 60631 TEL,I

PLOT SCALE = 40.0000 '/ IN. CHECKED - PKG PLOT DATE = 5/8/2015 DATE

5/8/2015

REVISED **DEPARTMENT OF TRANSPORTATION** REVISED

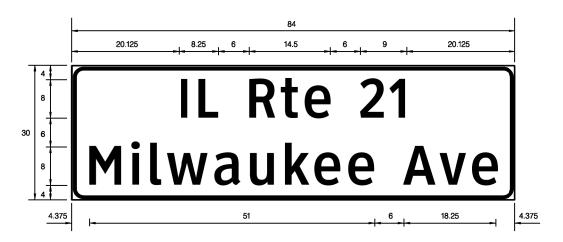
ILLINOIS ROUTE 21 (MILWAUKEE AVE) AT ILLINOIS ROUTE 58 (GOLF RD) SHEET NO. OF SHEETS STA.

374

COUNTY TOTAL SHEETS NO.

COOK 53 29 2014-059-I CONTRACT NO. 60Y78 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

SIGN PANEL - TYPE 1 OR TYPE 2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	17.50	2	ZZ	2



11.25

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STRRET NAME

> THE TRAFFIC SIGNAL CONTROL EOUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOT A
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1711
DETECTABLE WARNINGS	SQ FT	119
COMBINATION CURB AND GUTTER REMOVAL	F00T	437
DOWEL BARS 11/2"	EACH	78
CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	72
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	F00T	50 201
CONCRETE MEDIAN, TYPE SB-9.12	SQ FT	80
CORRUGATED MEDIAN	SQ FT	80
SIGN PANEL - TYPE 1	SQ FT	63
SIGN PANEL - TYPE 2	SQ FT	57.5
POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	F00T	984
POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	261
PAVEMENT MARKING REMOVAL	SQ FT	508
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	F00T	1198
UNDERGROUND CONDUIT, GALVANIZED STEEL, 21/2" DIA.	F00T	36
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	F00T	61
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	F00T	858
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	3
PAINT NEW TRAFFIC SIGNAL POST	EACH	3
PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	3
TRANSCEIVER-FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	F00T	203
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	F00T	3539
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	F00T	5998
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	395
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	26
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	840
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE C	FOOT	12
	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	6.7
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	63
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15 8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH EACH	-
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER		10
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	15
INDUCTIVE LOOP DETECTOR	EACH FOOT	6.76
DETECTOR LOOP, TYPE I	EACH	676 4
LIGHT DETECTOR AND TETER		_
LIGHT DETECTOR AMPLIFIER	EACH	9
PEDESTRIAN PUSH-BUTTON TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
		_
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	12
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1177
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C CONCRETE MEDIAN SURFACE REMOVAL	F00T SQ FT	1173 377
CONCRETE MEDIAN REMOVAL	SQ FT	
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES

ILLINOIS ROUTE 21 (MILWAUKEE AVE) AT ILLINOIS ROUTE 58 (GOLF RD)
SCALE: N.T.S. | SHEET NO. OF | SHEETS | STA. TO STA.

TS 1995 COUNTY TOTAL SHEETS NO.
COOK 53 30

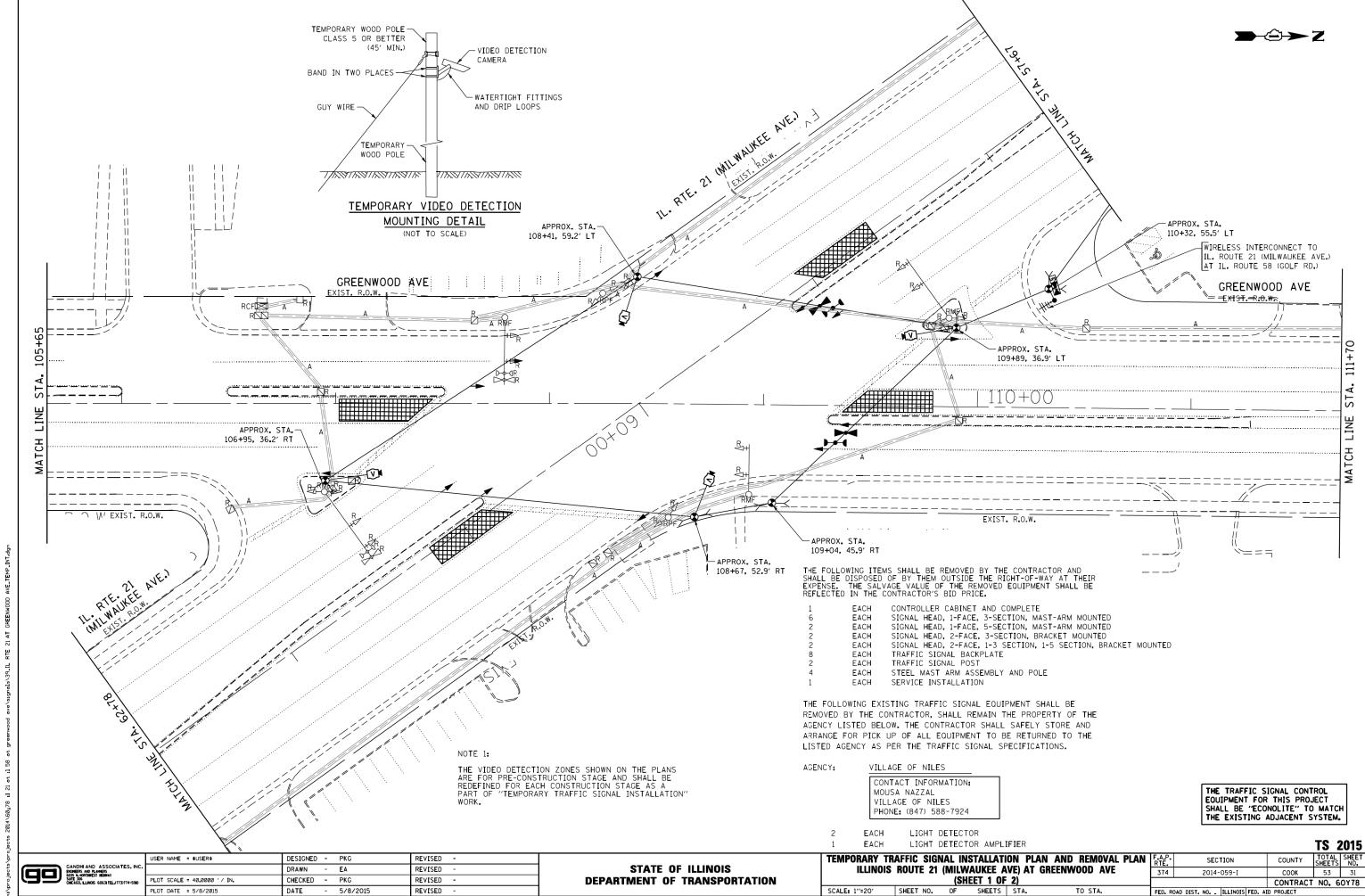
CONTRACT NO. 60Y78

SECTION

2014-059-I

374

	USER NAME = \$USER\$	DESIGNED	-	PKG	REVISED -	
с.		DRAWN	-	EA	REVISED -	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED	-	PKG	REVISED -	
	PLOT DATE = 5/8/2015	DATE	-	5/8/2015	REVISED -	



GREENWOOD | AVE

105+00

USER NAME = \$USER\$ DESIGNED - PKG REVISED -- EA DRAWN REVISED PLOT SCALE = 40.00000 ' / IN. CHECKED - PKG REVISED - 5/8/2015 PLOT DATE = 5/8/2015 DATE REVISED

DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN ILLINOIS ROUTE 21 (MILWAUKEE AVE) AT GREENWOOD AVE (SHEET 2 OF 2)

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

COUNTY SHEETS NO.

COOK 53 32

CONTRACT NO. 60Y78 SECTION 374 2014-059-I

GREENWOOD AVE EXIST. R.O.W.

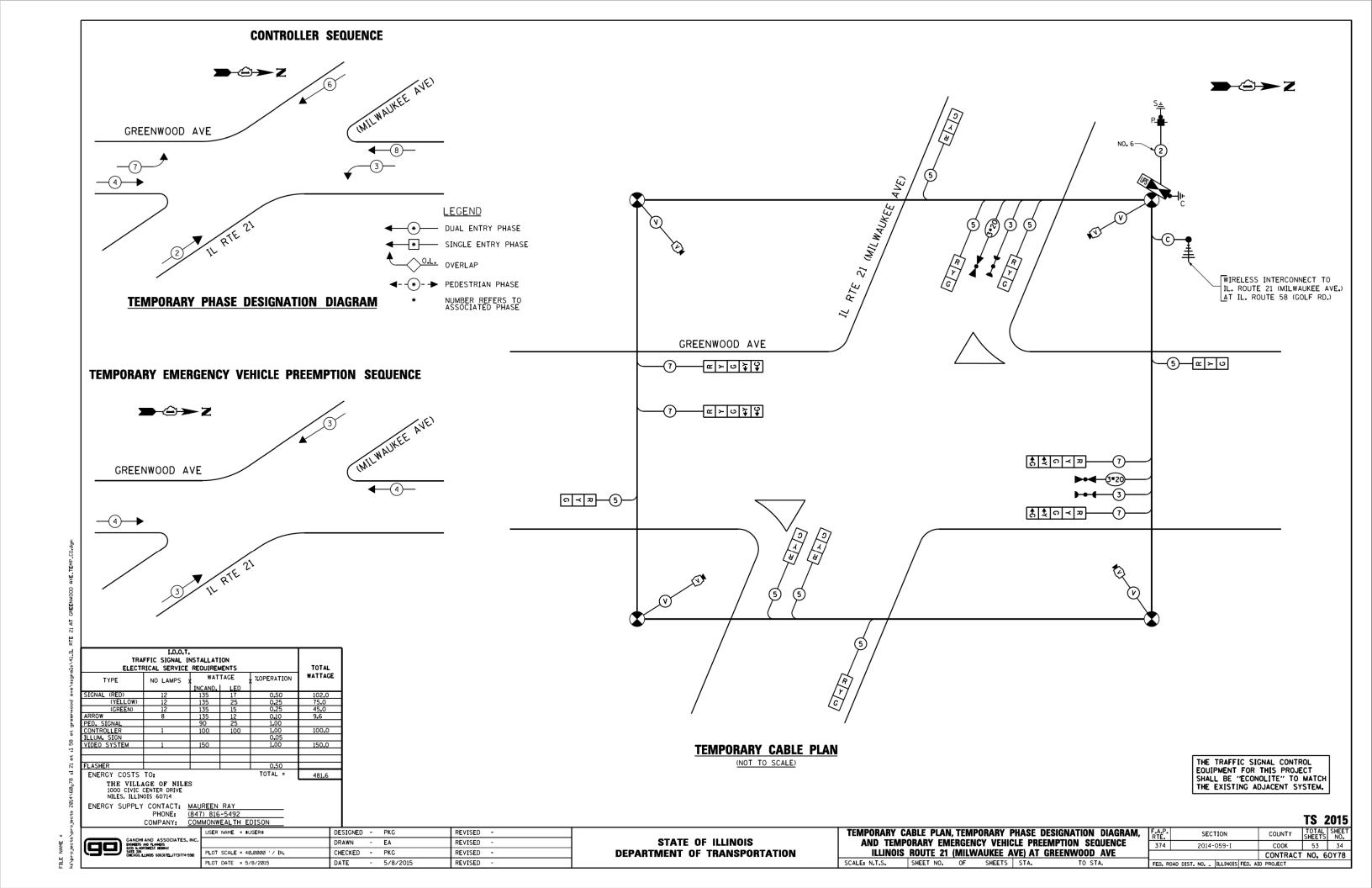
⋑⊸Ĝ→Z

THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR PRE-CONSTRUCTION STAGE AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION"

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM. TS 2015

GANDHI AND ASSOCIATES,
BECREENS AND PLANGERS
GRADS IN MORTHWEST INCHMAY
SLITE 306
GRACO, LLINOS 60631 TEL.1773/774-

STATE OF ILLINOIS



SCALE: 1"=20"

5/8/2015

REVISED

PLOT DATE = 5/8/2015

USER NAME = \$USER\$ DESIGNED - PKG REVISED -GANDHI AND ASSOCIATES, I BIGMERS AND PLAMEDS OF LANGUAGES - EA DRAWN REVISED PLOT SCALE = 40.00000 ' / IN. CHECKED - PKG REVISED PLOT DATE = 5/8/2015 - 5/8/2015 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 21 (MILWAUKEE AVE) AT GREENWOOD AVE
(SHEET 2 OF 2)

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

F.A.P. RTE. 374

___50'-UC-2" GREENWOOD AVE

EXIST. R.O.W.

TO STOP BAR

COUNTY TOTAL SHEET NO.
COOK 53 36
CONTRACT NO. 60Y78 SECTION 2014-059-I

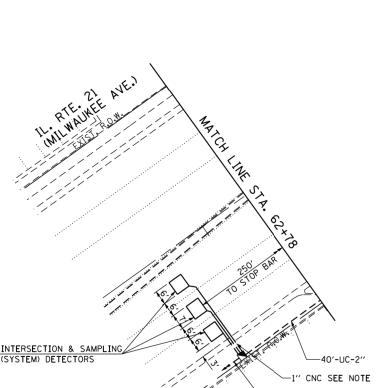
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

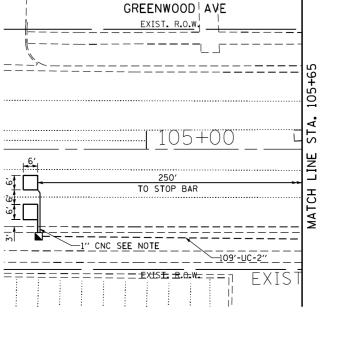
NOTE:
EACH DETECTOR LOOP SHALL HAVE ITS OWN
1" COILABLE NON-METALIC CONDUIT BETWEEN
THE EDGE OF PAVEMENT AND THE ADJACENT
HANDHOLE AS SHOWN ON THE PLANS AND AS
STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

Thit Walnet Ave.	
21 AVE.	
TE. WEE	
NAU ROMAN	
MILESSE	
IIII RINALINEE COMMITTEE CELEBRATION OF THE PARTY OF THE	
	•
	S.
	/×
	. 62×10
	√ √ ⊘
15	S' BAR
To the state of th	
INTERSECTION & SAMPLING (SYSTEM) DETECTORS	40'-UC-2"
	1" CNC SEE NOTE
1/1.	INTERCONNECT TO IL RTE 58 (GOLF RD)

_1" CNC SEE NOTE

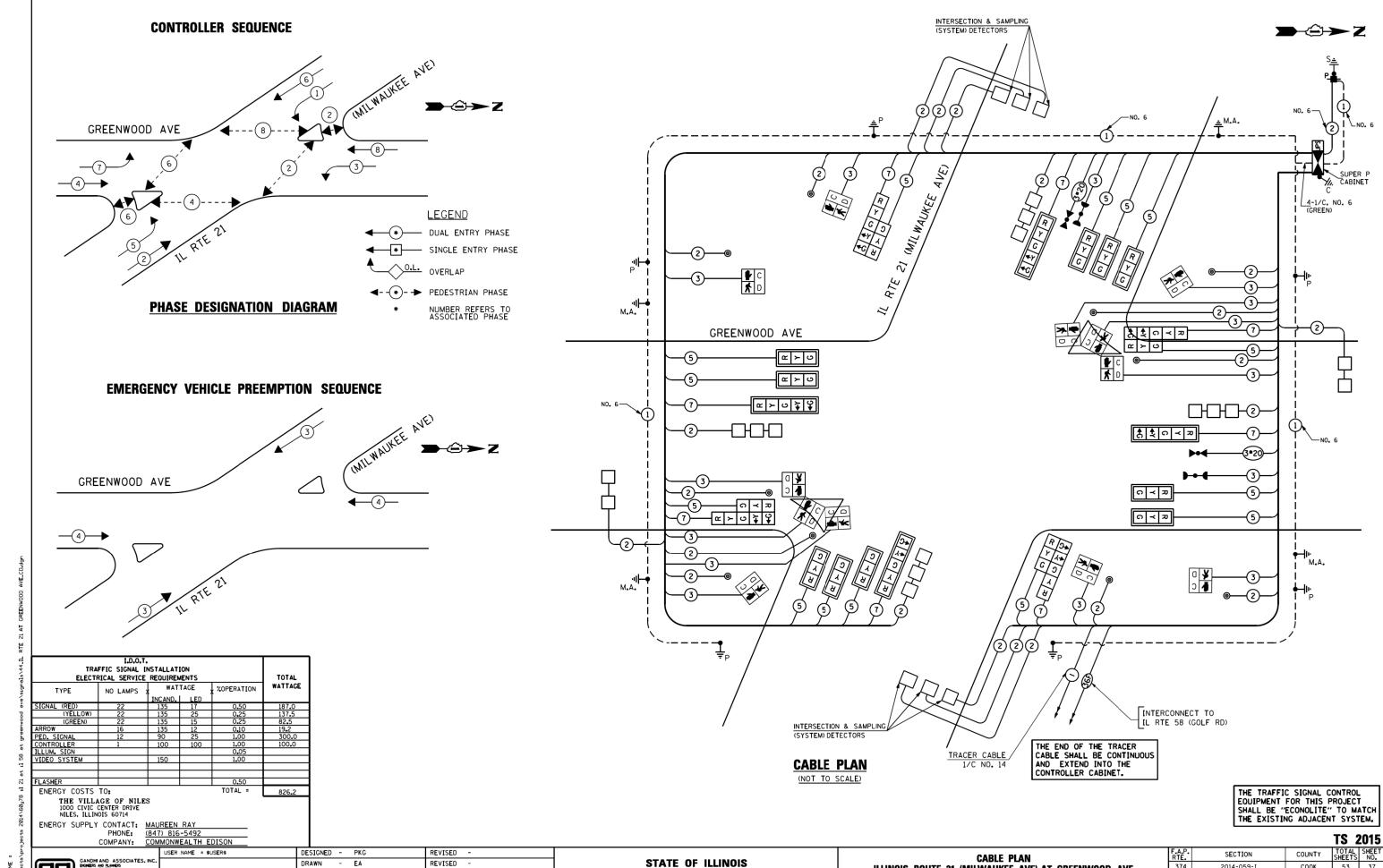
INTERSECTION & SAMPLING (SYSTEM) DETECTORS





→ ② → Z

TS 2015



DRAWN - EA PLOT SCALE = 40.0000 '/ IN. CHECKED - PKG 5/8/2015 PLOT DATE = 5/8/2015 DATE

REVISED

REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN ILLINOIS ROUTE 21 (MILWAUKEE AVE) AT GREENWOOD AVE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEETS NO.

COOK 53 37 374 2014-059-I CONTRACT NO. 60Y78 FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

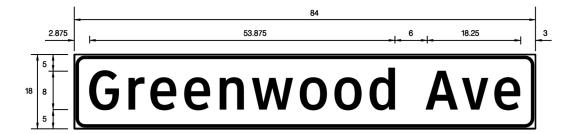
	<u> </u>		
	ITEM DESCRIPTION	UNITS	TOTAL QTY.
	SIGN PANEL - TYPE 2	SQ FT	56
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1225
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 21/2" DIA.	FOOT	92
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	87
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1011
	HANDHOLE	EACH	8
	HEAVY-DUTY HANDHOLE	EACH	4
	DOUBLE HANDHOLE	EACH	3
•	PAINT NEW TRAFFIC SIGNAL POST	EACH	6
	PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4
	TRANSCEIVER-FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2842
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3989
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2541
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	64
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1176
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	24
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
	INDUCTIVE LOOP DETECTOR	EACH	12
	DETECTOR LOOP, TYPE I	FOOT	769
	LIGHT DETECTOR	EACH	2
	LIGHT DETECTOR AMPLIFIER	EACH	1
•	PEDESTRIAN PUSH-BUTTON	EACH	10
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	15
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
			493
•	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C UNINTERRUPTABLE POWER SUPPLY, SPECIAL	F00T EACH	1 1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
	·		

^{• 100%} COST TO VILLAGE OF NILES

SIGN PANEL - TYPE 1 OR TYPE 2

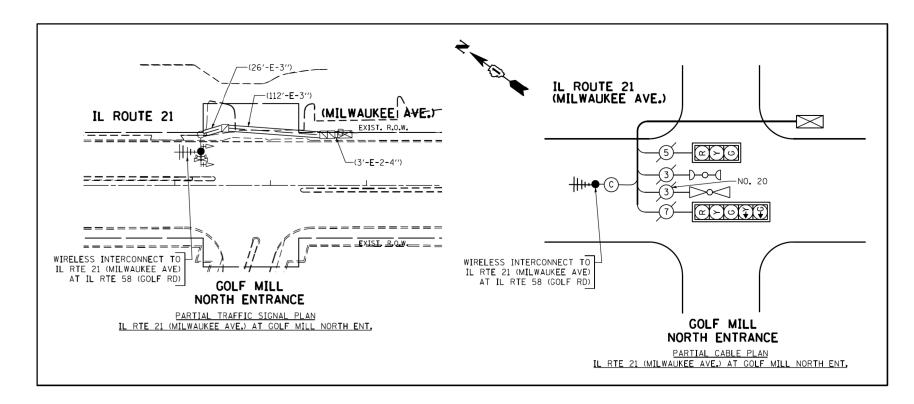


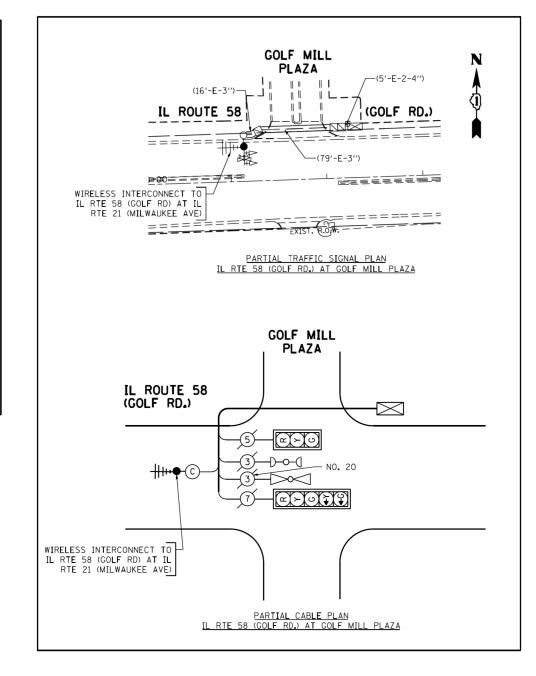
DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	17.50	2	ZZ	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	10-50	2	77	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.





COST TO INSTALL WIRELESS INTERCONNECT AT THESE THREE LOCATIONS (GOLF RD AT GREENWOOD AVE; GOLF RD AT GOLF MILL PLAZA; AND MILWAUKEE AVE AT GOLF MILL NORTH ENT.) SHALL BE INCIDENTAL TO THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AT IL RTE 21 (MILWAUKEE AVE) AT IL RTE 58 (GOLF RD.)

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

ECON. 11 ECON. 12

CANDHI AND ASSOCIATES, INC.
DOORSES NOT PLANGEST
SMIT 390 PRIST I BORN SMIT 391 PL
PL
PL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARTIAL TEMPORARY INTERCONNECT PLAN

ILL. RTE. 58 (GOLF RD.) FROM GREENWOOD AVE. TO GOLF MILL PLAZA

AND ILL. RTE. 21 (MILWAUKEE AVE) AT GOLF MILL NORTH ENTRANCE

SCALE: 1"=50" | SHEET NO. OF SHEETS | STA. TO STA.

DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50"

PLOT SCALE = 100.00000 '/ IN.

PLOT DATE = 5/8/2015

CHECKED - PKG

- 5/8/2015

DATE

REVISED

REVISED

GANDHI AND ASSOCIATES
DIGRESS AND PLANESS
SULTE 306
SULT

USER NAME = \$USER\$ DESIGNED - PKG - EA DRAWN PLOT SCALE = 100.0000 '/ IN. CHECKED - PKG PLOT DATE = 5/8/2015 DATE - 5/8/2015 REVISED -

REVISED

REVISED

REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** INTERCONNECT PLAN

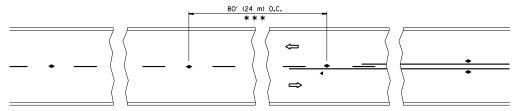
ILL. RTE. 58 (GOLF RD.) FROM GREENWOOD AVE. TO GOLF MILL

PLAZA AND ILL. RTE. 21 (MILWAUKEE AVE) FROM GOLF MILL

NORTH ENTRANCE TO GREENWOOD AVE (SHEET 2 OF 2)

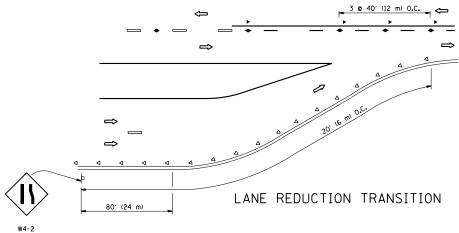
SHEET NO. OF SHEETS STA. TO STA.

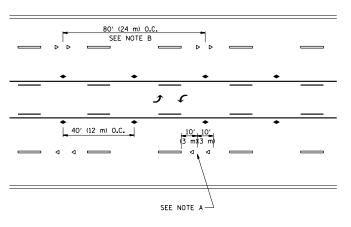
ECON. 11 ECON. 12



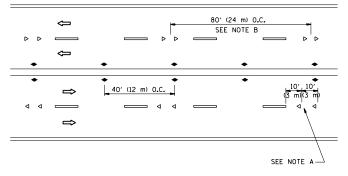
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

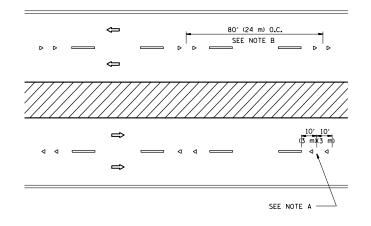




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

---- YELLOW STRIPE

---- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

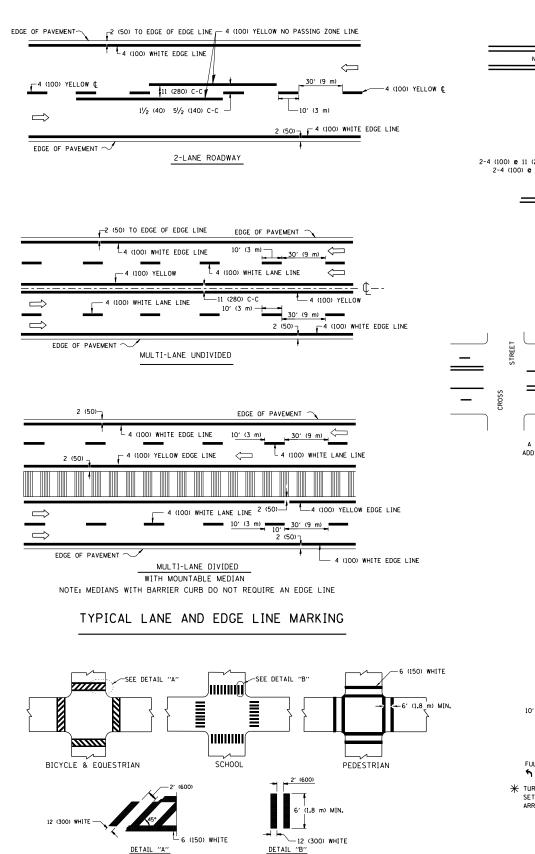
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

FILE NAME =	USER NAME = ledezmarm	DESIGNED -	REVISED - T. RAMMACHER 09-19-94			TYPICAL APPLICA	TIONS	RTE.	SECTION	COUNTY	SHEETS NO.	ائر
c:\pw_work\pwidot\ledezmarm\d0333875\Di	tStd.dgn	DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS	DAIGED			347	2014-059-I	СООК	53 44	4
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	KAISED	REFLECTIVE PAVEMENT MARKER	S (SNUVV-PLUVV KESISTANT)		TC-11	CONTRACT	T NO. 60Y7	78
	PLOT DATE = 5/19/2015	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FEF	D. AID PROJECT		

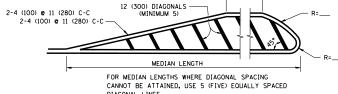


TYPICAL CROSSWALK MARKING

NO DIAGONALS

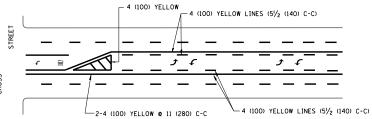
4' (1.2 m) WIDE MEDIANS ONLY

VARIES 12 (300) DIAGONALS VARIES C-C (MINIMUM 5)

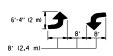


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

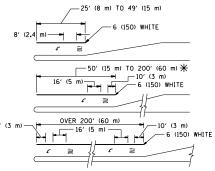


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

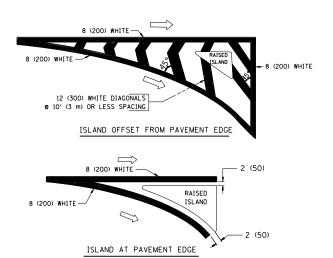


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SO. FT. (1.9 m²)

* 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			CDACING / DEMARKS
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"*3.6 SO. FT. (0.33 m²) EACH "X"*54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

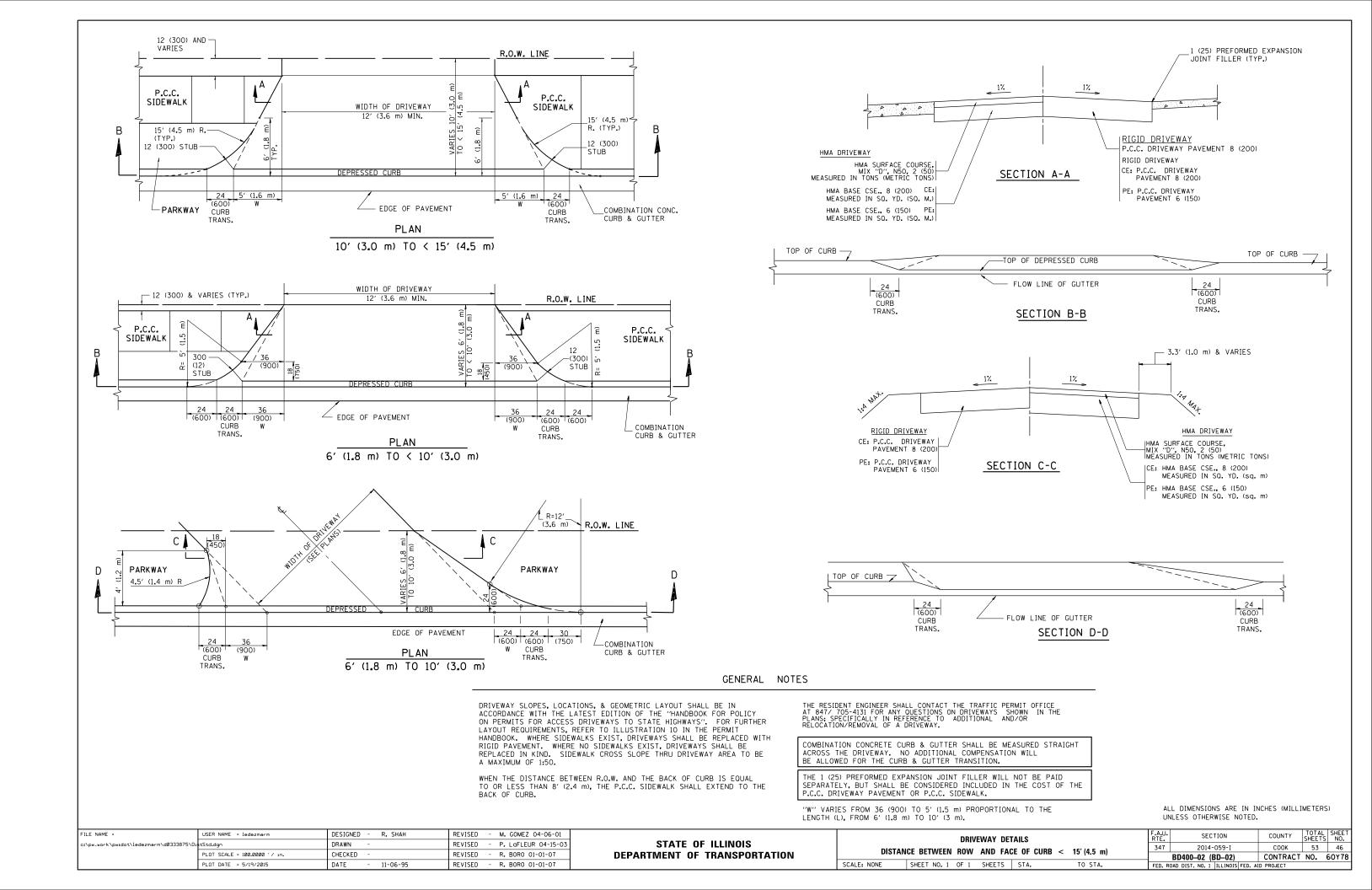
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

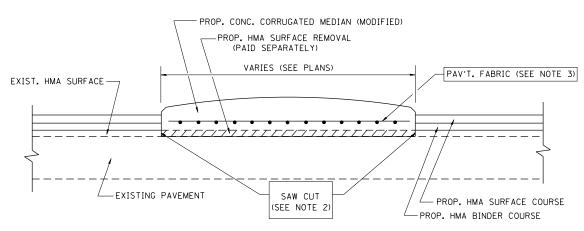
All dimensions are in inches (millimeters) unless otherwise shown.

TOTAL SHEET NO. 53 45

TYPICAL	TURN	LANE	MARKIN

FILE NAME =	USER NAME = ledezmarm	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94			DISTRICT ONE		F.A.U.	SECTION	COUNTY
c:\pw_work\pwidot\ledezmarm\d0333875\Di	tStd.dgn	DRAWN -	REVISED -C. JUCIUS 09-09-09	STATE OF ILLINOIS	[ļ	347	2014-059-I	соок
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TION TYPICAL PAVEMENT MARKINGS				TC-13	CONTRACT N
	PLOT DATE = 5/19/2015	DATE - 03-19-90	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO	STA.	FED ROAD DI	IST NO 1 THE INDIS FED AT	ID PROJECT

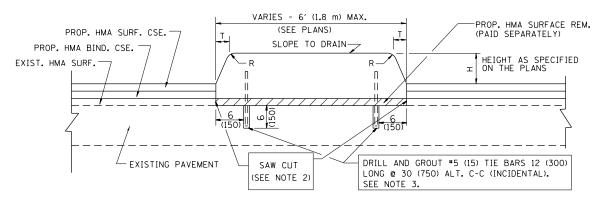




- NOTES: 1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
 - 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR
 MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE
 OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED.
 SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
 - 3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



H R T
6(150) 1(25) 1(25)
9(225) 1(25) 2(50)

NOTES: 1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.

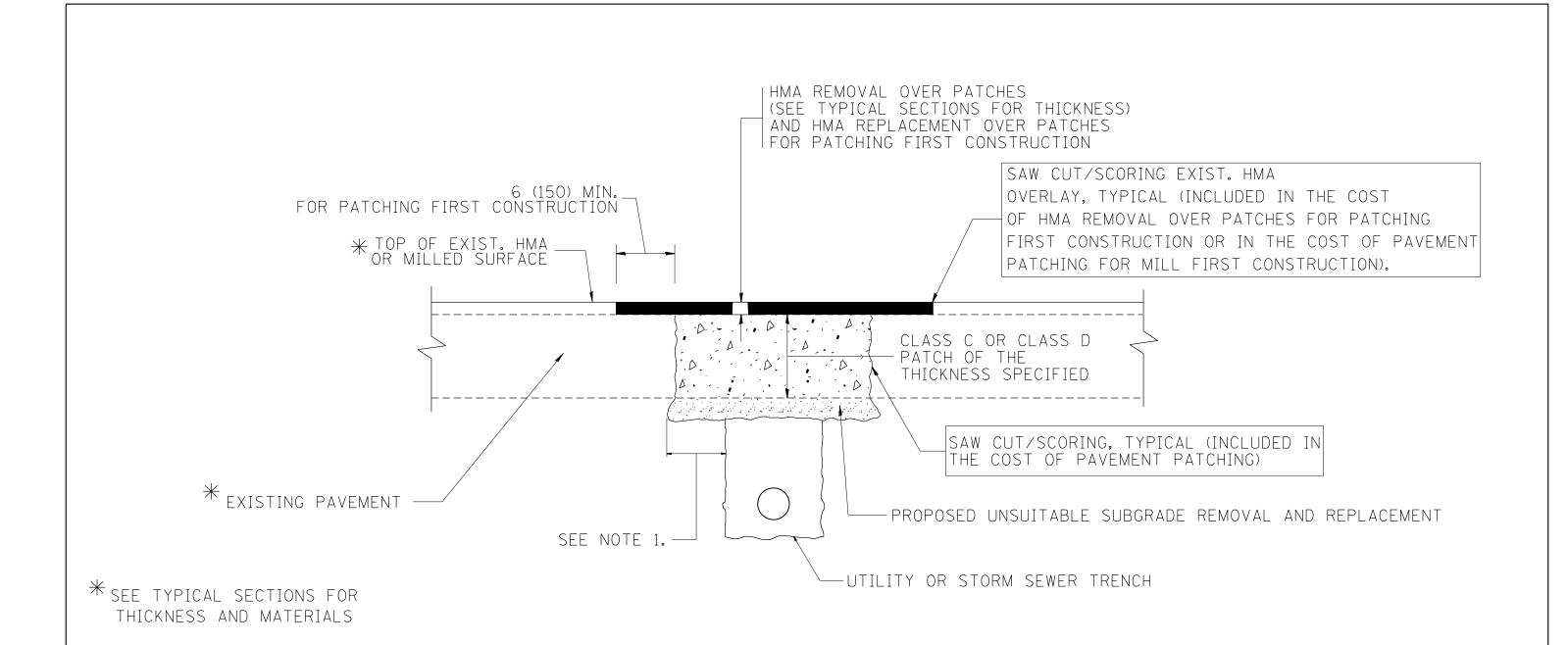
- 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR
 MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE
 OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED.
 SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
- 3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE
 ONE ROW OF *5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE.
 TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

DETAILS FOR CONCRETE MEDIAN

TYPE SB (DOWELLED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

FILE NAME =	USER NAME = ledezmarm	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94		DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED)	F.A.U.	SECTION	COUNTY	TOTAL SHI	EET
c:\pw_work\pwidot\ledezmarm\d0333875\Di	stStd.dgn	DRAWN -	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS	, , ,	347	2014-059-I	соок	53	47
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	DEPARTMENT OF TRANSPORTATION	CORRUGATED MEDIAN (MODIFIED)	BD600		CONTRACT	NO. 60Y	778
	PLOT DATE = 5/19/2015	DATE - 05-14-90	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DI		ID PROJECT		



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

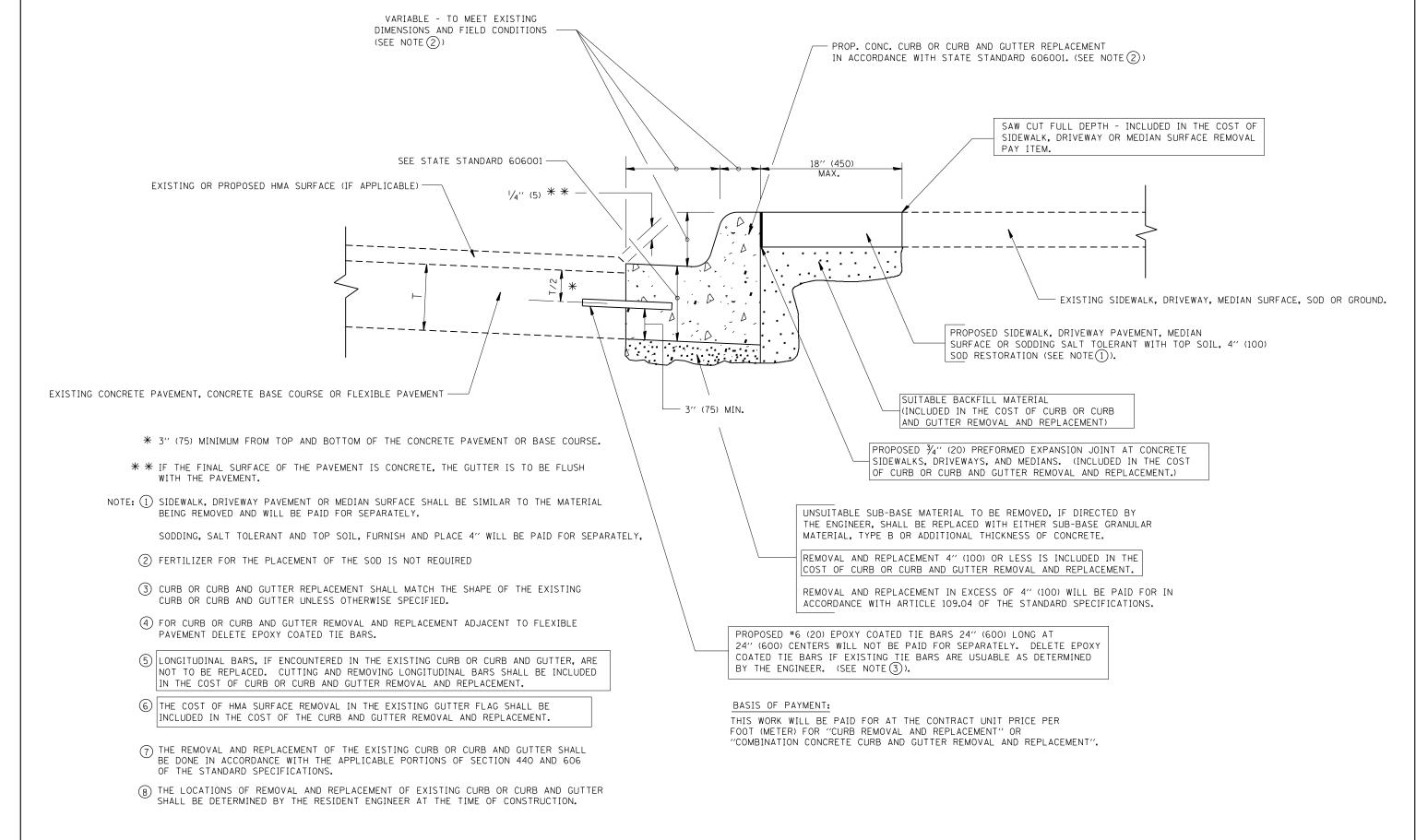
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

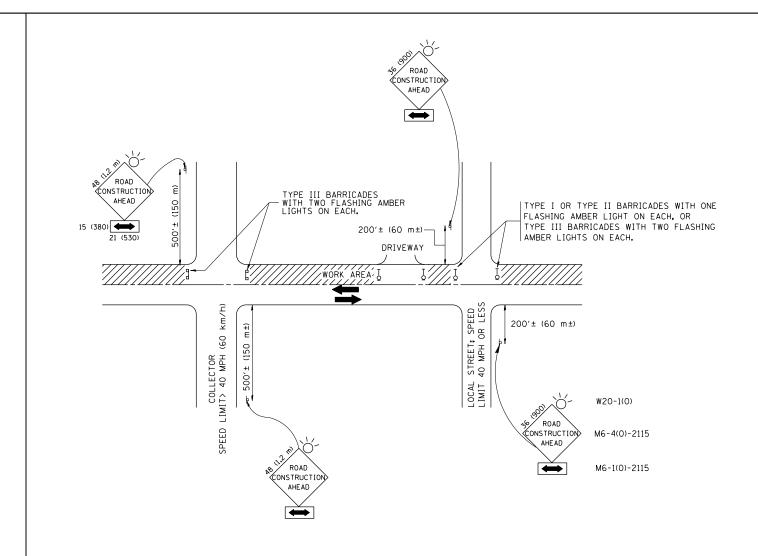
- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

,	FILE NAME =	USER NAME = ledezmarm	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.U. RTF	SECTION	COUNTY	TOTAL S	SHEET NO.
- 1	c:\pw_work\pwidot\ledezmarm\d0333875\Di	stStd.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		347	2014-059-I	соок	53	48
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400	-04 (BD-22)	CONTRACT	NO. 6	0Y78
		PLOT DATE = 5/19/2015	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST.	NO. 1 ILLINOIS FED. AI			



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

CURP OF CURP AND CUTTER	A.U. SECTION	COUNTY SHEET NO
	347 2014-059-I	COOK 53 49
REMOVAL AND REPLACEMENT		CONTRACT NO. 60Y78
DNE SHEET NO. 1 OF 1 SHEETS STA. TO STA.) PROJECT
ONE	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	CURB OR CURB AND GUTTER



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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' (150 m) IN ADVANCE OF THE MAIN ROLLTE.
- 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.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-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.

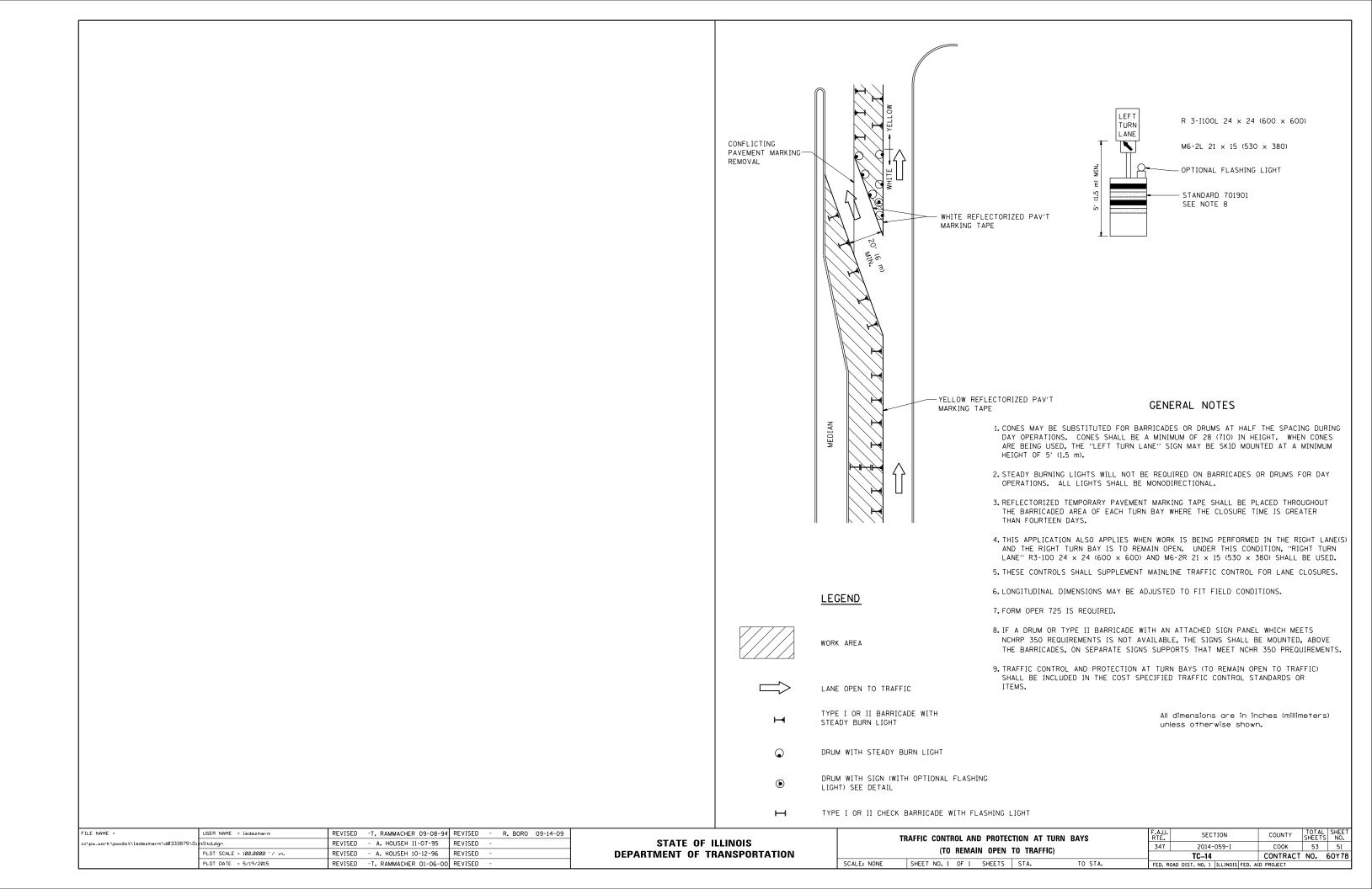
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

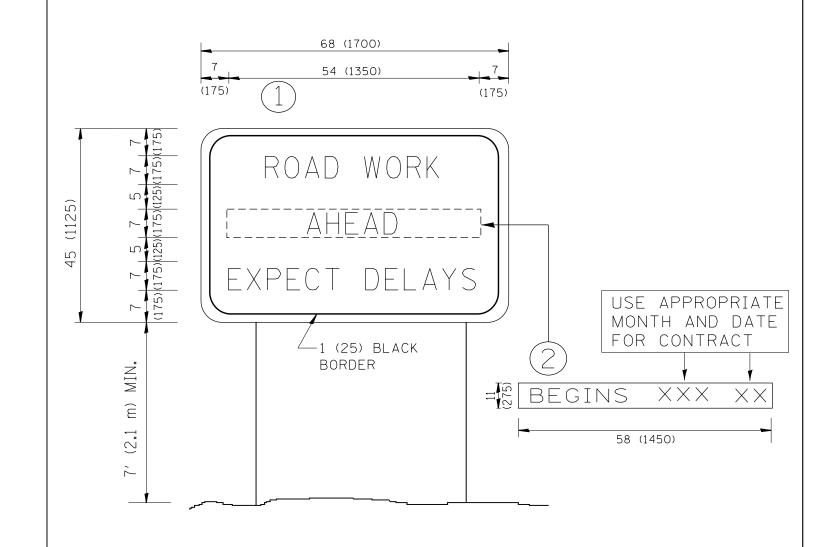
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = ledezmarm	DESIGNED	-	LHA	REVISED	-	J. OBERLE 10-18-95
c:\pw_work\pwidot\ledezmarm\d0333875\Di	stStd.dgn	DRAWN	-		REVISED	-	A. HOUSEH 03-06-96
	PLOT SCALE = 100.0000 '/ in.	CHECKED	-		REVISED	-	A. HOUSEH 10-15-96
	PLOT DATE = 5/19/2015	DATE	-	06-89	REVISED	-T,	. RAMMACHER 01-06-00

STATI	E OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	347	2014-059-I	соок	53	50
SIDE ROADS, INTERSECTIONS, AND DRIVEWATS	TC-10		CONTRACT	NO.	60Y78
SHEET NO. 1 OF 1 SHEETS STA. TO STA.	EED D	DAD DICT NO 1 THE INDICE FED AT	D DDO IECT		

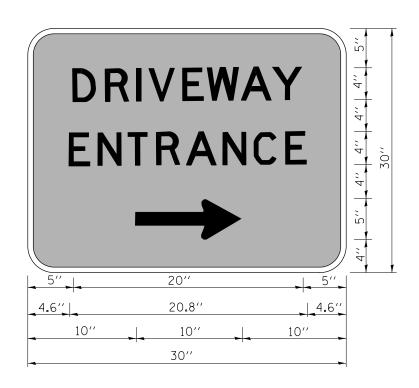




NOTES:

- 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 (1) 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.

FILE NAME =	USER NAME = ledezmarm	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.U. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\ledezmarm\d0333875\Di	stStd.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN	347 2014-059-I	COOK 53 52
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 02-02-	DEPARTMENT OF TRANSPORTATION	INFUNIVIATION SIGN	TC-22	CONTRACT NO. 60Y78
	PLOT DATE = 5/19/2015	DATE -	REVISED - C. JUCIUS 01-31-0	,	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = ledezmarm	DESIGNED	-	REVISED	-	C. JUCIUS 02-15-07
c:\pw_work\pwidot\ledezmarm\d0333875\Di	stStd.dgn	DRAWN	-	REVISED	-	
	PLOT SCALE = 100.0000 '/ in.	CHECKED	-	REVISED	-	
	PLOT DATE = 5/19/2015	DATE	-	REVISED	-	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	l

					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
					347	2014-059-I	соок	53	53		
							TC-26	CONTRACT	NO.	60Y78	
	SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					