11-9-12 LETTING ITEM 074

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAU ROUTE 1320: IL. RTE. 58 (SUMMIT STREET)
AT SHALES PARKWAY / COUNTRYFIELD LANE
SECTION: 581-N-1
PROJECT: HSIP-1320(004)
INTERSECTION IMPROVEMENT
COOK COUNTY
C-91-697-10

PROJECT BEGINS
STA. 495 + 33
IL. RTE. 58

PROJECT ENDS
STA. 200 + 43
COUNTRYFIELD LN.

PROJECT ENDS
STA. 502 + 68
IL. RTE. 58

HANOVER TOWNSHIP

IL RTE. 58 - GROSS AND NET LENGTH = 735.00 FT. = 0.139 MILE

SHALES PKWY./CONTRYFIELD LN. - GROSS AND NET LENGTH = 204.4 FT. = 0.039 MILE

TOTAL GROSS AND NET LENGTH = 939.4 FT. = 0.178 MILE

PRINTED BY

OF THE STA

FOR INDEX OF SHEETS. SEE SHEET NO. 2

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THE PROJECT IS LOCATED IN THE CITY OF ELGIN

TRAFFIC DATA:

IL RTE 58 2009 ADT = 10,800

POSTED SPEED LIMIT = 45 MPH

SHALES PKWY 2009 ADT = 9,200
POSTED SPEED LIMIT = 30 MPH

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

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

PROJECT ENGINEER KARI SMITH (847) 705–4437 PROJECT MANAGER KEN ENG (847) 705–4247

CONTRACT NO. 60L43

D-91-697-10



DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 31, 20 12

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DIVID 120 12

DIVID ENGINEER OF DESIGN AND ENVIRONMENT

MAY 11 20 12

William R. Florible

OCAN DIRECTOR OF HIGHWAYS CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

HIGHWAY STANDARDS

SHEET NO.	DESCRIPTION	STD. NO.	LITLE
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2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES	001001-02	AREAS OF REINFORCEMENT BARS
3 - 8	SUMMARY OF QUANTITIES	001006-00	DECIMAL OF AN INCH AND OF A FOOT
		280001-06	TEMPORARY EROSION CONTROL SYSTEMS
9 - 11	TYPICAL SECTIONS	424001-06	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
12	SCHEDULES OF QUANTITIES	424006	DIAGONAL CURB RAMPS FOR SIDEWALKS
13	ALIGNMENT, TIES, AND BENCHMARKS	424021 424026	DEPRESSED CORNER FOR SIDEWALKS
14 16		482011-03	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
14 - 15	PLAN AND PROFILE	542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
16	EROSION AND SEDIMENT CONTROL PLAN	542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
17 - 19	DRAINAGE AND UTILITIES PLANS	542311-03	GRATING FOR CONCRETE FLARED END SECTION (FOR 24" (600 MM) THRU 54" (1300 MM) PIPE)
20	SUE PLAN	602001-02	CATCH BASIN, TYPE A
		602011-02	CATCH BASIN, TYPE C
21	PLAT OF HIGHWAYS	602301-03	INLET, TYPE A
22	PAVEMENT MARKING AND LANDSCAPING PLAN	602401-03	MANHOLE, TYPE A
23 - 31	TRAFFIC SIGNAL PLANS	602406-05	MANHOLE, TYPE A, 6' (1.8 M) DIAMETER
		602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
32	OUTLET FOR CONCRETE CURB AND GUTTER (BD-03)	602701-02	MANHOLE STEPS
.,		604001-03	FRAME AND LIDS, TYPE 1
33	STORM SEWER CONNECTION TO EXISTING SEWER (BD-07)	604036-02	GRATE, TYPE 8
34	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)	604091-02 606001-04	FRAME AND GRAYE, TYPE 24 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
25		606006-02	OUTLET FOR CONCRETE CURB AND GUTTER, TYPE 8-6.24 (8-15.60)
35	MANHOLE WITH RESTRICTOR PLATE (BD-12)	701001-02	OFF-ROAD OPERATIONS, 2L. 2W. MORE THAN 15' (4.5 M) AWAY
36	BUTT JOINTS AND HMA TAPER DETAILS (80-32)	701006-03	OFF-ROAD OPERATIONS, 2L. 2W, 15' (4,5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
37	FIRE HYDRANT TO BE MOVED (BD-36)	701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
38	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS.	701201-04	LANE CLOSURE, 2L, 2W. DAY ONLY. FOR SPEEDS >= 45 MPH
	INTERSECTIONS, AND DRIVEWAYS (TC-10)	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
39	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS	701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
	(SNOW-PLOW RESISTANT) (TC-11)	701311-03 701326-04	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
40	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701501-06	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45 MPH URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
41	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN	701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
	OPEN TO TRAFFIC) (TC-14)	701901-02	TRAFFIC CONTROL DEVICES
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	STAGING (TC-16)	720006-03	SIGN PANEL ERECTION DETAILS
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	ROADWAY RESURFACING (TS-07)	805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
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		857001-01	DOUBLE HANDHOLES STANDARD DUASE DESIGNATION DIAGRANG AND DUASE SEQUENCES
		862001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES UNINTERRUPTABLE POWER SUPPLY (UPS)
		873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
		877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
		878001-09	CONCRETE FOUNDATION DETAILS
		880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
		886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC. TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND

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

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE RESIDENT ENGINEER SHALL CONTACT MR. WALLY CZARNY, AREA TRAFFIC FIELD ENGINEER, AT (847) 715-8419 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT

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

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANTY" SHOWN IN THE

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

ANY SIGNAGE AFFECTED DURING CONSTRUCTION SHALL BE REPLACED TO ITS ORIGINAL LOCATION AND CONDITION (OR NEW).

FILE NAME I	USER NAME : parayroal	DESIGNED -	REVISED -
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	PLOT 500LE + 188.8888 17 in,	CHECKED -	REVISED -
	PLOT DATE : 8/23/2012	DATE -	REVISED -

STATI	E OI	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

1	INDEX OF	SHEETS, HIGHWAY STAN	DARDS &	GENERAL NOTES	F,A,U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I		IL. RTE. 58 AT SHA	LES PKWY		1320	581-N-1	COOK	50	2
ł	501.5 1.51.5		~	·			CONTRACT	NO. 6	OL43
_	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<u></u>	ILLINOIS FED. AL	D PROJECT		

	SUMMARY OF QUANTITIES		URBAN		C	ONSTRUCTI	ON TYPE	CODE		SUMM	ARY OF QUANTITIES		URBAN		С	ONSTRUCT	ON TYPE (CODE	
ODE NO	ITEM	UNIT	TOTAL OUANTITIES			0021 100% ELGIN	0021 80% STATE 20% ELGIN		CODE NO		ITEM	UNIT	TOTAL OUANTITIES	0004 90% FED 10% STATE	0021 90% FED 5% STATE 5% ELGIN	0021 100% ELGIN	0021 BO% STATE 20% ELGIN		
·				ROADWAY	T. SIGNALS	EVP	SIDEWALK							ROADWAY	T. SIGNALS	EVP	SIDEWALK		
0100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	19	19				-	48102100	AGGREGATE WED	OGE SHOULDER, TYPE B	TON	6	6					
0100500	TREE REMOVAL. ACRES	ACRE	0.03	0.03				-	54213657	I	ORCED CONCRETE FLARED END	EACH	1	1					
0200100	EARTH EXCAVATION	CU YD	463	463						SECTIONS 12"									
0201200	REMOVAL AND DISPOSAL OF UNSUITABLE	CU YD	550	550				***************************************	54213660	SECTIONS 15"	ORCED CONCRETE FLARED END	EACH	*	1					
0800150	MATERIAL TRENCH BACKFILL	CU YD	82	82					54214515		ORCED CONCRETE FLARED END	EACH		1					***************************************
1001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	656	656					54248150	GRATING FOR C	CONCRETE FLARED END SECTION DUND-SIZE 30"	EACH	1	1					
1101615	TOPSOIL FURNISH AND PLACE. 4"	SO YD	2607	2607				W-P	550A0050	STORM SEWERS.	CLASS A, TYPE 1 12"	FOOT	48	48					***************************************
5000400	NITROGEN FERTILIZER NUTRIENT	POUND	33	33					550A0070	STORM SEWERS.	CLASS A. TYPE 1 15"	FOOT	50	50					
5000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	33	33				PA 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	550A4000	1	CLASS A. TYPE 1	FOOT	110	110					
5000600	POTASSIUM FERTILIZER NUTRIENT	POUND	33	33				***************************************		EQUIVALENT RO									
5100630	EROSION CONTROL BLANKET	SO YD	2607	2607				***************************************	550A4100	}	CLASS A. TYPE 1 DUND-SIZE 24"	FOOT	96	96			***************************************		
5200110	SODDING, SALT TOLERANT	SO YD	2607	2607				**************************************	550A4300	€	CLASS A, TYPE 1 DUND-SIZE 30"	FOOT	300	300			***************************************		
5200200	SUPPLEMENTAL WATERING	UNIT	131	131				***************************************	55100500	STORM SEWER F	REMOVAL 12"	FOOT	20	20			***************************************		
8000250	TEMPORARY EROSION CONTROL SEEDING	POUND	54	54				VANCOUNTER	55100700	STORM SEWER R	REMOVAL 15"	FOOT	5	5			1777		
3000400	PERIMETER EROSION BARRIER	FOOT	646	646				WANAAAAAA	55100900	STORM SEWER R	REMOVAL 18"	FOOT	115	115					
	INLET FILTERS	EACH	11	11				4100401	55101200	STORM SEWER R	REMOVAL 24"	F00T	100	100			value de la companya		
300112	HOT-MIX ASPHALT BASE COURSE WIDENING. 7" AGGREGATE SUBGRADE IMPROVEMENT, 12"	SO YD	347 656	347 656				TAMAS SERVICES	60201340	CATCH BASINS. TYPE 24 FRAME	TYPE A. 4'-DIAMETER,	EACH	4	4					
600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2	2					60205040		TYPE A, 5'-DIAMETER,	EACH	3	3					
	AGGREGATE (PRIME COAT)	TON	9	9						TYPE 24 FRAME				Ü					
	MIXTURE FOR CRACKS. JOINTS.	TON	7	7					60207605	CATCH BASINS.	TYPE C. TYPE 8 GRATE	EACH	1	1					***************************************
	AND FLANGEWAYS	F. 0.11		110000000000000000000000000000000000000				-	60218400	MANHOLES, TYP FRAME. CLOSED	PE A. 4'-DIAMETER, TYPE 1 D LID	EACH	2	2			-		***************************************
	CONSTRUCTING TEST STRIP HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	EACH SO YD	1 98	1 98					60221100	MANHOLES. TYP FRAME. CLOSED	PE A. 5'-DIAMETER. TYPE I	EACH	1	1					***********
	JOINT			***************************************	A Average of the Aver			T () the second of the second	60237470	INLETS, TYPE	A. TYPE 24 FRAME AND GRATE	EACH	1	1			****Anna Anna		
603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D". N70	TON	492	492	***************************************			Ментон и в населения в насе	60255500	MANHOLES TO B	BE ADJUSTED	EACH	I desired	ŧ			and the second	ļ	
2001300	PROTECTIVE COAT	SO YD	711	711	THE STATE OF THE S			And the control of th	60260400	INLETS TO BE FRAME, CLOSED	ADJUSTED WITH NEW TYPE 1	EACH	1	•				an entire de maria de	
400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	4005		воправа Ангандання		4005	V0001444	60500040	REMOVING MANH		EACH	1	1				4444mminter	Mintella and debate
400800	DETECTABLE WARNINGS	SQ FT	189		e de la companya de l		189	*****************	aurammana .	REMOVING CATE		EACH		1				Acceptance	***************************************
000100	PAVEMENT REMOVAL	SO YO	166	166				danaa danaa danaa da	Ana PHA	REMOVING INLE		EACH	7	7				Accounts to	***************************************
000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	4111	4111		***************************************		Annual statement of the	***	CLASS SI CONC		CU YD	3	3			***************************************	APPRIATION AND CRITICAL PROPERTY AND CRITICA	***************************************
00300	CURB REMOVAL	FOOT	6	6				Land stranslations		CONCRETE CURB		FOOT	6	6				Aprilia Adulta abina	***************************************
1000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	740	740		W telegraphy (Т	[ONCRETE CURB AND GUTTER,	FOOT	22	22			***************************************		
300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	400	400				And and an		TYPE B-6.12		The state of the s	***************************************						
				***************************************	Anderstein absolute anne anne			Andreas establishment of the second	60	* \$P[ECIALTY ITEMS	чения выпечений подательной подательном подательном подательном подательном подательном подательном п	**************************************	****					
.work/owldon-para	\$**** <u></u>	SIGNED - AWN -		REVISED REVISED				STATE OF	ILLINOIS			OF QUANTIT			F.A.U. RTE. 1320	SEC1		COUNTY S	SH SH
		ECKED -		REVISED REVISED			E	EPARTMENT OF T			IL. RTE. 58 A SCALE: NONE SHEET NO. 1 OF 3 SHE			STA.	1320	581-	·•	CONTRACT	

4536 4536 01PD 01PD

1	SUMMARY OF QUANTITIES		URBAN		C	ONSTRUCT	ION TYPE	CODE	SUMMARY OF QUANTITIES				URBAN	ļ,		ONSTRUCT	ON TYPE (CODE	
		T	TOTAL	0004 90% FED	0021 90% FED	0021 100% ELGIN	0021 80% STATE	district management of the state of the stat				and the second s	TOTAL	0004 90% FED	0021 90% FED	0021 100% ELGIN	0021 80% STATE		
CODE NO	ITEM	UNIT	OUANTITIES	10% STATE	5% STATE 5% ELGIN		20% ELGIN	and the state of t	COI	DDE NO	ITEM	UNIT	OUANTITIES	10% STATE	5% STATE 5% ELGIN		20% ELGIN		
		ļ		ROADWAY	T, SIGNALS	EVP	SIDEWALK	And the second s					-	ROADWAY	T. SIGNALS	EVP	SIDEWALK		
60604400	COMBINATION CONCRETE CURB AND GUTTER. TYPE B-6.18	FOOT	18	18			vi Annahalaine en e		* 810	028200 UNDERGRO	UND CONDUIT, GALVANIZED STEEL,	FOOT	851		851	ve VArcendavrivasses states associated	,		
60605000	COMBINATION CONCRETE CURB AND GUTTER. TYPE B-6, 24	F00T	765	765			niteraksundi Akker dujukakkke		* 810	028210 UNDERGRO	UND CONDUIT, GALVANIZED STEEL,	FOOT	58		58	vere e deputit de de la constante de la consta	-		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				######################################	* 810	1	UND CONDUIT, GALVANIZED STEEL.	FOOT	103		103				
67100100	MOBILIZATION	L SUM	1	1			rejirarahanan der	TO THE PARTY OF TH		3" DIA.	0000 CONDUCT				43.4				
70100450	TRAFFIC CONTROL AND PROTECTION. STANDARD 701201	L SUM	1	1			Franke de mandre e m		* 810	028240 UNDERGRO 4" DIA.	UND CONDUIT, GALVANIZED STEEL,	FOOT	414		414				
70100460	TRAFFIC CONTROL AND PROTECTION. STANDARD 701306	L SUM	1	1			de un desse de la constante de			400100 HANDHOLE	TY HANDHOLE	EACH EACH	3		3				
70100500	TRAFFIC CONTROL AND PROTECTION. STANDARD 701326	L SUM	ì	1			The second secon			400300 DOUBLE +		EACH	2		2				
70102620	<u>.</u>	L SUM	1						* 842	200500 REMOVAL	OF LIGHTING UNIT. SALVAGE	EACH	1	1		Çerîği may kapa şaya şa			
10102820	STANDARD 701501	L SUM		4		:	der geschaft abstract für der geschaft abstract für der geschaft abstract für der geschaft ge	***************************************	* 842	200804 REMOVAL	OF POLE FOUNDATION	EACH	1		1	referie der er d			
70102635	TRAFFIC CONTROL AND PROTECTION. STANDARD 701701	L SUM	1	1			unterfaller der Anders		* 857	700200 FULL-ACT TYPE IV	UATED CONTROLLER AND CABINET	EACH	1		1	Sunda karabanda adalarada da Sunda da S	***************************************		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6			1	***************************************	* 873	į	CABLE IN CONDUIT. SIGNAL	FOOT	1245		1245	VANNESAATIE			
70300100	SHORT TERM PAVEMENT MARKING	F00T	1717	1717			1	AND		NO. 14						THAT THE THE THAT THE THE THE THE THE THE THE THE THAT THE THE THE THE THE THE THE THE THE TH			
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	146	146			e e e e e e e e e e e e e e e e e e e	Water state of the	***	NO. 14		FOOT	1810		1810	SSC TANKANINA C S S S S S S S S S S S S S S S S S S			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2093	2093			a construction of the cons	and a second	* 873	301245 ELECTRIC NO. 14	CABLE IN CONDUIT, SIGNAL 5C	FOOT	781		781				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1111	1111			vacation and Arterior and		* 873	301255 ELECTRIC	CABLE IN CONDUIT, SIGNAL	FOOT	1463		1463				
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	F00T	79	79			98944444444444444444444444444444444444	1	± Ω73	ALCO AND	CABLE IN CONDUIT, LEAD-IN,	FOOT	1860		1860	[
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	96	96			48888V-A88V-AAV	1.	# 1013	NO. 14		700;	1000		1000				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	102	102			**************************************	Visit Property Control of the Contro	* 873	301805 ELECTRIC	CABLE IN CONDUIT, SERVICE,	FOOT	132		132	 		****	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1941	1941			V=====	Wanter	* 873	**************************************	CABLE IN CONDUIT, EQUIPMENT	FOOT	829		829		The service state of the servi		
72000100	SIGN PANEL - TYPE 1	SO FT	18	200	18			- Andrewski de la		GROUNDIN	G CONDUCTOR, NO, 6 1C					Wilsonstate	Animateve		
	SIGN PANEL - TYPE 2	SO FT	50		50			depression to the second	* 875	502500 TRAFFIC 16 FT.	SIGNAL POST, GALVANIZED STEEL	EACH	4		4	V-000-00-00-00-00-00-00-00-00-00-00-00-0	**************************************		
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	146	146				B35174-F033-74411	* 877	700170 STEEL MA	ST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1	Washington and a second	ı				
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	F00T	2093	2093				Vancenthystensory	* 877	700190 STEEL MA	ST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1				
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1111	1111				remainment of the second	* 877	700230 STEEL MA	ST ARM ASSEMBLY AND POLE, 38 FT.	EACH	***		ì			Vinitellitiviniaeleiten	
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	79	79				***************************************	* 877	700290 STEEL MA	ST ARM ASSEMBLY AND POLE, 50 FT.	EACH	**************************************		i			ASSEMBLE	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	96	96				reportation and the second	* 878	800100 CONCRETE	FOUNDATION, TYPE A	FOOT	16		16		***************************************	***************************************	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	102	102				and the second s	* 878	800150 CONCRETE	FOUNDATION. TYPE C	FOOT	4		4		***************************************	distributed and the second	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	52	52			- control of the cont		* 878	£	FOUNDATION, TYPE E	FOOT	10		10				
78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	42	42			***************************************	паличения		**************************************	DIAMETER								
80500020	REMOVAL SERVICE INSTALLATION - POLE MOUNTED	EACH	1	war	1		**************************************	maye mana maye e e e e e e e e e e e e e e e e e e	# 878	1	FOUNDATION, TYPE E DIAMETER	FOOT	37	BRATTAL BEATTAL BEATTA	37				
			•		•		Address to the same of the sam	пененалична											
				ни менен на повет на			***************************************	полеоприяванной в полеоприяван			* SPECIALTY ITEMS	* The state of the						out to the second of the secon	
ele.					- Andrewski and		Readinger		10			***************************************					Partition	ченинейнующини	
FILE NAME &	1	SIGNED + AWN -		REVISED				STATE OF	ILLINO	OIS		OF QUANTI			F.A.U. RTE.			COUNTY TO	OTAL SHEET
	PLOT SCALE * 100,0000 */ In CHE	ECKED -	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	REVISED REVISED	•		Ε	EPARTMENT OF T			SCALE: NONE SHEET NO. 2 OF 3 SHE	AT SHALES F	KWY.	·	1320	581-	-Re-1	COOK CONTRACT N	50 4 NO. 60L43

	SUMMARY OF QUANTITIES		URBAN		C	OTPOUL ONSTRUCTI	OTCOU ION TYPE	CODE			SUMMARY OF QUA	NTITIES		URBAN			CONSTRUCT	ION TYPE (CODE	
		Ţ	TOTAL	0004 90% FED	0021 90% FED	0021 100% ELGIN	0021 80% STATE		-					TOTAL	0004 907 FFD	0021	0021	0021 80% STATE		, , , , , ,
CODE NO	ITEM	UNIT	QUANTITIES				20% ELGIN			CODE NO	ITEM		UNIT	QUANTITIES	10% STATE	5% STATE 5% ELGIN	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20% ELGIN		
				ROADWAY	T. SIGNALS	EVP	SIDEWALK								ROADWAY	T. SIGNALS	EVP	SIDEWALK		
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4		4			A PART OF THE PART	Andrew Meet Andrew											
* 88030100	SIGNAL HEAD. LED. 1-FACE. 5-SECTION, BRACKET MOUNTED	EACH	4		4				The first through the state of	SEALANGE STATE OF THE SEA										
* 88030110	SIGNAL HEAD. LED. 1-FACE, 5-SECTION. MAST-ARM MOUNTED	EACH	4		4		girke act international control of the control of t			ANALYS COLUMN STANSACTION OF THE COLUMN STAN						delekkingungan delekk	& Antonia de Caración de Carac			
* 88102717	PEDESTRIAN SIGNAL HEAD. LED. 1-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8		**************************************	ADD A A ARRIVAN AND A AN								PANALATABARANA	***************************************			
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8		TECHNICAL THE SECTION OF THE SECTION										-			
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	9		9				-								richia e Anna			
* 88600100	DETECTOR LOOP. TYPE I	FOOT	885		885				***************************************								** central control con		al and a second	
* 88700200	LIGHT DETECTOR	EACH	2			2												-	the tendence of the second	
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1			***										*********	
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8				anni troni and tr							And the second s		***************************************	************	
* A2003220	TREE. CORYLUS COLURNA (TURKISH FILBERT). 2-1/2" CALIPER. BALLED AND BURLAPPED	EACH	2	2												**************************************		***************************************		
X0322936	REMOVE EXISTING FLARED	EACH	1	•						***************************************		A STATE OF THE STA				****	***			
	END SECTION GRADING AND SHAPING SHOULDERS	UNIT	4	4					***	***************							***			
	STORM SEWERS TO BE CLEANED 12"	FOOT	44	44						**************************************								***************************************		
	STORM SEWERS TO BE CLEANED 15"									Andrew Halle Barrier									area area area area area area area area	
		FOOT	80	80				11111				or and a second						***************************************	напана	
	STORM SEWERS TO BE CLEANED 18"	FOOT	120	120					**************************************			VALANCIE AV AVAILABLE AV AVAILABLE AV AVAILABLE AVAILABLE AVAILABLE AVAILABLE AVAILABLE AVAILABLE AVAILABLE AV								
	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID. RESTRICTOR PLATE	EACH	1						Anna construction of the second			NAME OF THE PROPERTY OF THE PR	any appropriate	4			***************************************		}	
	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	3	3					nayanyan maya			продолжений	***************************************						and the state of t	
	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1		1				Andrewson and the second	none service de la constante de		dervice	na n	9244						
	ELECTRIC CABLE IN CONDUIT NO. 20 3/C. TWISTED. SHIELDED	FOOT	510	Animose Antonios de la Company		510			**************************************	A SIGNA PARA PARA PARA PARA PARA PARA PARA PA								***************************************		
	CONSTRUCTION LAYOUT	L SUM	1					PAPATRI SERVICIONI DE LA CALCACACACACACACACACACACACACACACACAC	termenten			Total Control]			
Δ 20018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5	5				ti ti di la marketi	-			Aceptingungenooses	# # ##################################				***************************************			
Z0022800	FENCE REMOVAL	FOOT	70	70		***************************************			**************************************			**************************************	0-14-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-			****	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	128.5	128.5					Advista	HANDERSTRANS		a de la companya de l	айланды	***************************************				***************************************	***************************************	
55103030	STORM SEWER REMOVAL EQUIVALENT ROUND-SIZE 30"	FOOT	300	300						в водинения полагинизм				THE STREET AND STREET						
		Opposite the state of the state						**************************************	PER SECURITION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AD	Versage (West Language plane language para l		TOTAL PROPERTY OF THE PROPERTY	МЕНТИТЕ МЕТОТО В ТОТО В ТОТО	An and the second secon			**************************************	100000000000000000000000000000000000000	A THE PERSON NAMED IN COLUMN 1	
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		***************************************				THE PARTY OF THE P		valuative for all the state of		Vereingeliche	* SPECIALTY ITEMS		}							
		Additional of the state of the		- Control of the Cont		Autoria Antonias		A delivery of the second of th		448000000000000000000000000000000000000	Δ NON-PARTICIPATING	TEMS (100% 57)	978)		***************************************					<i>m</i>
FILE NAME :	USER NAME & parginosi DE	SIGNED -		REVISED		1				**************************************						[FAII			170	Rev.
į.	291001/d0273204P442209-Desklopdgn DR	IAWN -		REVISED	*		_		E OF ILL			SUMMARY (IL. RTE. 58 AT				F.A.U. RTE. 1320	SEC 581		cook £	SHEET NO.
		ECKED -		REVISED REVISED			[EPARTMENT	UF TRA	NSPORTATIO		SHEET NO. 3 OF 3 SHEE			STA.				CONTRACT N	

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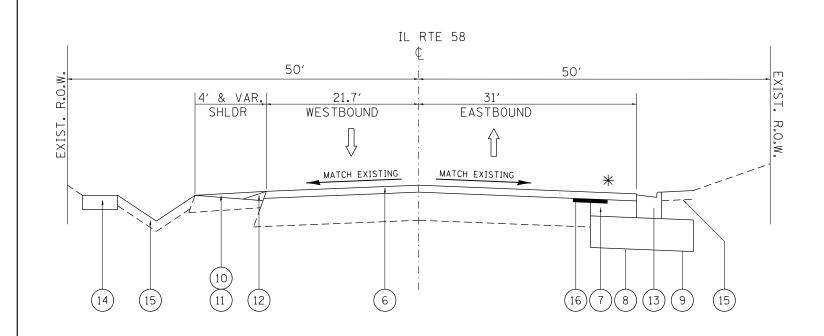
	SUMMARY OF QUANTITIES				CONSTRUCTI		CODE			SUMMAF	RY OF QUANTITIES					RUCTION TYP	
CODE NO	ITEM	UNIT	TOTAL	0004 0021 90% FED 90% FED 10% STATE 5% STATE 5% ELGIN ROADWAY T. SIGNALS		0021 80% STATE 20% ELGIN SIDEWALK			CODE NO		ITEM	UNIT	TOTAL QUANTITIES	10% STATE	90% FED 100% 5% STATE 5% ELGIN	021 0021 ELGIN 80% ST. 20% EL	TE GIN
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	102	102				*	8 1028210	UNDERGROUND	CONDUIT, GALVANIZED STEEL,	FOOT	58		58		
										2 1/2" DIA.							
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1941	1941													
								*	81028220	UNDERGROUND	CONDUIT, GALVANIZED STEEL,	FOOT	103		103		
72000100	SIGN PANEL - TYPE 1	SO FT	18	18						3" DIA.							
72000200	SIGN PANEL - TYPE 2	SO FT	50	50				*	81028240	UNDERGROUND	CONDUIT, GALVANIZED STEEL.	FOOT	414		414		
										4" DIA.							
78000100	THERMOPLASTIC PAVEMENT MARKING	SQ FT	146	146													
	- LETTERS AND SYMBOLS							*	81400100	HANDHOLE		EACH	3		3		
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2093	2093				*	81400200	HEAVY-DUTY H	ANDHOLE	EACH	4		4		
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1111	1111				*	81400300	DOUBLE HANDH	OLE	EACH	2		2		
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	79	79				*	84200500	REMOVAL OF L	IGHTING UNIT, SALVAGE	EACH	1	1			
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	96	96				*	84200804	REMOVAL OF P	DLE FOUNDATION	EACH	1		1		
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	102	102					85700200	FILL ACTUATE	D CONTROLLER AND	EACH	,		1		
78000830	THERMOPEASTIC PAVEMENT MARKING - LINE 24	7001	102	102					83700200	TYPE IV CABI		EACH	1		1		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	52	52					87301215	ELECTRIC CAR	LE IN CONDUIT, SIGNAL	FOOT	1245		1245		
78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	42	42				***************************************	8/301215	NO. 14 2C	LE IN CONDUIT, SIGNAL	7001	1245		1245		
	REMOVAL																
								*	87301225		LE IN CONDUIT, SIGNAL	FOOT	1810		1810		
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1	1						NO. 14 3C							
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL.	FOOT	851	851				*	87301245	ELECTRIC CAB	LE IN CONDUIT, SIGNAL	FOOT	781		781		
	2" DIA.									NO. 14 5C	* SPECIALTY ITEMS						
ILE NAME =		GIGNED -		REVISED -			6-	TATE OF "	LIMOIS		S. ESTRETT TEMS				F.A.U. RTE.	SECTION	COUNTY TOTAL SHEETS
:\pw_work\pwidot\parc		AWN -		REVISED - REVISED -				TATE OF II	LLINOIS RANSPORTA		SUMMARY	OF QUANT	ITIES		1320	581-N-1	COOK 50

	SUMMARY OF QUANTITIES				С	ONSTRUCTION	N TYPE	CODE			SUMMARY OF QUANTITIES			CONSTRUCT	ION TYPE CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	10% STATE	0021 90% FED 5% STATE 5% ELGIN T. SIGNALS	100% ELGIN 80	0021 0% STATE 0% ELGIN SIDEWALK			CODE NO	ITEM	UNIT	TOTAL 0004 90% FED 10% STATE	0021 0021 90% FED 100% ELGIN 5% STATE 5% ELGIN T. SIGNALS EVP	0021 80% STATE 20% ELGIN SIDEWALK	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL	FOOT	1463	NOADWAT	1463	LVI 3	JULWALK		*	87800415	CONCRETE FOUNDATION, TYPE E	FOOT	37	37	SIDEWALK	
	NO. 14 7C										36-INCH DIAMETER					
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN,	FOOT	1860		1860				*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,	EACH	4	4		
	NO. 14 1 PAIR										MAST-ARM MOUNTED					
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE,	FOOT	132		132				*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	4	4		
	NO. 6 2 C										BRACKET MOUNTED					
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	829		829				*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	4	4		
	GROUNDING CONDUCTOR, NO. 6 1C										MAST-ARM MOUNTED					
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	4		4				*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE,	EACH	8	8		
	16 FT.										BRACKET MOUNTED WITH COUNTDOWN TIMER					
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1				*	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED,	EACH	8	8		
											ALUMINUM					
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1											
									*	88500100	INDUCTIVE LOOP DETECTOR	EACH	9	9		
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1		1				_	88600100	DETECTOR LOOP, TYPE I	FOOT	885	885		
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1		1				_	88800100	DETECTOR LOOP, TIPE 1	7001	865	863		
01100230	STEEL WAS AND ASSEMBLE AND TOLL, SO THE	LACII			•				*	88700200	LIGHT DETECTOR	EACH	2	2		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16											
									*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	1		
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4											
									*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8	8		
87800400	CONCRETE FOUNDATION, TYPE E	FOOT	10		10											
	30-INCH DIAMETER								$\left. \left \cdot \right \right $							
									$\left\ \cdot \right\ $		* SPECIALTY ITEMS					
FILE NAME =		SIGNED -		REVISED										F.A.U. SEC	CTION COUNTY	TOTAL SHEE SHEETS NO.
c:\pw_work\pwidot\para		AWN - ECKED -		REVISED REVISED				STATE OF DEPARTMENT OF			SUMMAF	RY OF QUANT	ITIES		1-N-1 COOK	50 7 NO. 60L43

- 1		SUMMARY OF QUANTITIES			C	ONSTRUCT	ION TYPE	CODE			CUMMAN	DV OF QUANTITIES				CONSTR	UCTION TYPE	CODE
\vdash		SUMMANT OF QUANTITIES		TOTAL	0004 0021	0021	0021				SUMMAR	RY OF QUANTITIES		TOTAL	0004	0021 003	1 0021	
C	ODE NO	ITEM	UNIT		90% FED 90% FED 10% STATE 5% STATE 5% ELGIN ROADWAY T. SIGNALS		20% ELGIN			CODE NO		ITEM	UNIT	QUANTITIES	10% STATE	90% FED 100% F 5% STATE 5% ELGIN T. SIGNALS EV	BO% STATE 20% ELGIN SIDEWALK	
* A	2003220	TREE, CORYLUS COLURNA (TURKISH FILBERT),	EACH	2	2													
		2-1/2" CALIPER, BALLED AND BURLAPPED																
×	0322936	REMOVE EXISTING FLARED END SECTION	EACH	1	1													
×	2020110	GRADING AND SHAPING SHOULDERS	UNIT	4	4													
Δ ×	5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	44	44													
Δ x	5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	80	80													
△ ×	5538000	STORM SEWERS TO BE CLEANED 18"	FOOT	120	120													
×	6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1	EACH	1	1													
		FRAME, CLOSED LID, RESTRICTOR PLATE																
×	6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	3	3													
* x	8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1													
* ×	8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C.	FOOT	510		510												
		TWISTED, SHIELDED																
z	0013798	CONSTRUCTION LAYOUT	L SUM	1	1													
ΔΖ	0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5	5													
Z	0022800	FENCE REMOVAL	FOOT	70	70													
Z	0030850	TEMPORARY INFORMATION SIGNING	SQ FT	128.5	128.5							CIALTY ITEMS						
											Δ NON	I-PARTICIPATING ITEMS						
	E NAME = w_work\pwldat\para;		SIGNED -		REVISED - REVISED -		-	s	TATE OF IL	LINOIS						F.A.U. RTE. 1320	SECTION 581-N-1	COUNTY TOTAL SHEETS NO. COOK 50 8
		PLOT SCALE = 100,0000 ' / In.	ECKED -		REVISED - REVISED -]		ENT OF TRA		ΓΙΟΝ	SCALE: SHEET NO. OF	SHEETS STA		O STA.		NO. 1 ILLINOIS FED. A	CONTRACT NO. 60L43

IL RTE 58 \$ 50' 50' SHLDR EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING AMA 13 1/4"± 1 5 3 2

EXISTING TYPICAL SECTION STA. 495+33 TO STA. 500+00

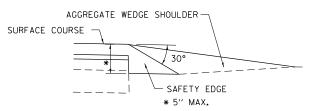


PROPOSED TYPICAL SECTION STA. 495+33 TO STA. 500+00

* SEE PLAN AND PROFILE SHEETS FOR LOCATIONS

LEGEND

- (1) EXISTING AGGREGATE SHOULDER
- (2) EXISTING CURB & GUTTER, B-6.18
- 3 EXISTING HMA AFTER MILLING, ± 11 1/4"
- (4) EXISTING HMA AFTER MILLING, ± 8 1/4"
- (5) PROPOSED HMA SURFACE REMOVAL, 2"
- 6) PROPOSED HMA SURFACE COURSE, MIX "D", N70, 2"
- (7) PROPOSED HMA BASE COURSE WIDENING, 7" (IN TWO LIFTS)
- (8) PROPOSED AGGREGATE SUBGRADE, 12"
- (9) PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (10) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (11) PROPOSED GRADING AND SHAPING OF SHOULDERS
- (12) PROPOSED SAFETY EDGE
- (13) PROPOSED COMBINATION CONCRETE CURB AND GUTTER B-6.24
- (14) PROPOSED P.C.C. SIDEWALK, 5"
- TOPSOIL FURNISH AND PLACE, 4", AND SODDING, SALT TOLERANT
- (16) PROPOSED STRIP REFLECTIVE CRACKING CONTROL SYSTEM



REMOVAL ITEMS

SAFETY EDGE DETAIL

SAFETY EDGE TREATMENT SHALL BE APPLIED TO PAVED SHOULDER OF 1 FT OR LESS THAT IS ADJACENT TO AGGREGATE / EARTH SHOULDER.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

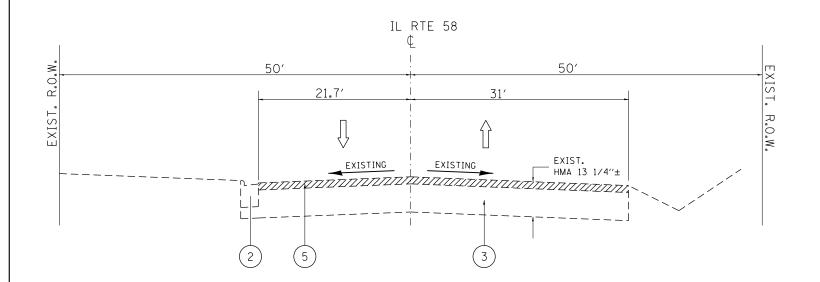
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT WIDENING AND RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5 mm) HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19 mm)	4% @ 70 GYR. 4% @ 70 GYR.

NOTES:

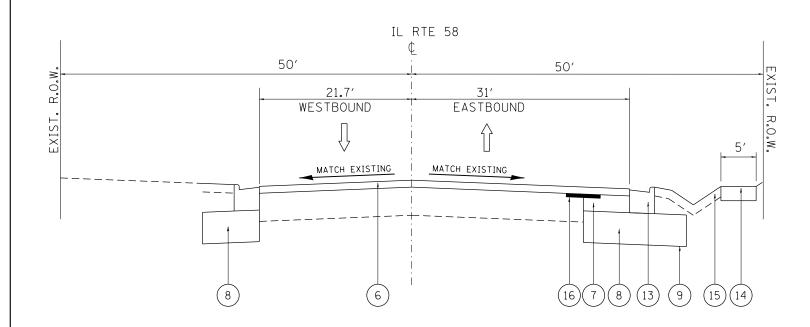
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SPECIAL PROVISIONS.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -		F.	XISTING AND PROPOSED	TYPICAL SEC	CTIONS	F.A.U. RTF.	SECTION	COUNTY	TOTAL	SHEET NO.
c:\pw_work\pwidot\paraynoal\d0273204\P14	2209-Design.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TE 58 AT SHALES PKWY			1320	581-N-1	COOK	50	9
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL N	IL 30 AT SHALES PRIVE	COUNTRIFIE	LD LAINE	·		CONTRAC	T NO. 60	0L43
	PLOT DATE = 8/23/2012	DATE -	REVISED -		SCALE: NTS	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST	T. NO. 1 ILLINOIS FED. A	ID PROJECT		



EXISTING TYPICAL SECTION STA. 500+00 TO STA. 502+68



PROPOSED TYPICAL SECTION STA. 500+00 TO STA. 502+68

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	
c:\pw_work\pwidot\paraynoal\d0273204\Pl4	2209-Design.dgn	DRAWN -	REVISED -	STA
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMEN
	PLOT DATE = 8/23/2012	DATE -	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS IL RTE 58 AT SHALES PKWY / COUNTRYFIELD LANE | SHEET NO. 1 OF 2 SHEETS | STA. TO STA.

SCALE: NTS

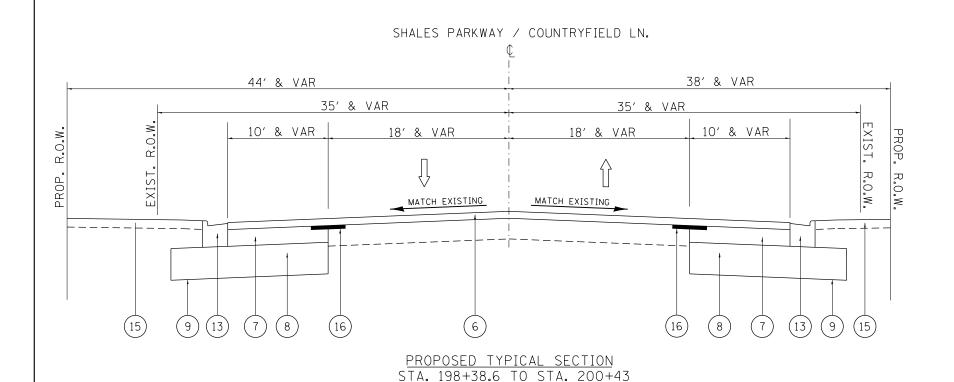
LEGEND

- (1) EXISTING AGGREGATE SHOULDER
- (2) EXISTING CURB & GUTTER, B-6.18
- 3 EXISTING HMA AFTER MILLING, ± 11 1/4"
- (4) EXISTING HMA AFTER MILLING, ± 8 1/4"
- (5) PROPOSED HMA SURFACE REMOVAL, 2"
- 6) PROPOSED HMA SURFACE COURSE, MIX "D", N70, 2"
- 7) PROPOSED HMA BASE COURSE WIDENING, 7" (IN TWO LIFTS)
- (8) PROPOSED AGGREGATE SUBGRADE, 12"
- 9 PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (10) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (11) PROPOSED GRADING AND SHAPING OF SHOULDERS
- (12) PROPOSED SAFETY EDGE
- (13) PROPOSED COMBINATION CONCRETE CURB AND GUTTER B-6.24
- (14) PROPOSED P.C.C. SIDEWALK, 5"
- TOPSOIL FURNISH AND PLACE, 4", AND SODDING, SALT TOLERANT
- (16) PROPOSED STRIP REFLECTIVE CRACKING CONTROL SYSTEM



REMOVAL ITEMS

EXISTING TYPICAL SECTION STA. 198+38.6 FO STA. 200+43



LEGEND

- (1) EXISTING AGGREGATE SHOULDER
- (2) EXISTING CURB & GUTTER, B-6.18
- 3 EXISTING HMA AFTER MILLING, ± 11 1/4"
- (4) EXISTING HMA AFTER MILLING, ± 8 1/4"
- (5) PROPOSED HMA SURFACE REMOVAL, 2"
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- (8) PROPOSED AGGREGATE SUBGRADE, 12"
- 9 PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (10) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (11) PROPOSED GRADING AND SHAPING OF SHOULDERS
- (12) PROPOSED SAFETY EDGE
- (13) PROPOSED COMBINATION CONCRETE CURB AND GUTTER B-6.24
- (14) PROPOSED P.C.C. SIDEWALK, 5"
- (15) TOPSOIL FURNISH AND PLACE, 4", AND SODDING, SALT TOLERANT
- (16) PROPOSED STRIP REFLECTIVE CRACKING CONTROL SYSTEM



REMOVAL ITEMS

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -		F	EXISTING AND PROPOSED	TYPICAL SECT	TIONS		ECTION COUNTY	Y TOTA	AL SHEET
c:\pw_work\pwidot\paraynoal\d0273204\Pl		DRAWN -	REVISED -	STATE OF ILLINOIS		RTE 58 AT SHALES PKWY			1320 5	81-N-1 COOK	50	0 11
	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL N		COUNTRIFIEL	D LANE	'	CONTRA	ACT NO.	60L43
	PLOT DATE = 8/23/2012	DATE -	REVISED -		SCALE: NTS	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	1 ILLINOIS FED. AID PROJECT		

EARTHWORK SCHEDULE

1 LOCATION	2 EARTH EXCAVATION	3 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	4 EMBANKMENT	5 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
IL. RTE. 58	247	210	236	-26
SHALES PKWY.	216	183	13	170
TOTAL	463	393	249	144

COLUMNS 1, 2, & 4 LOCATION AND QUANTITIES FROM CROSS SECTIONS:

CUT = EARTH EXCAVATION, FILL = EMBANKMENT

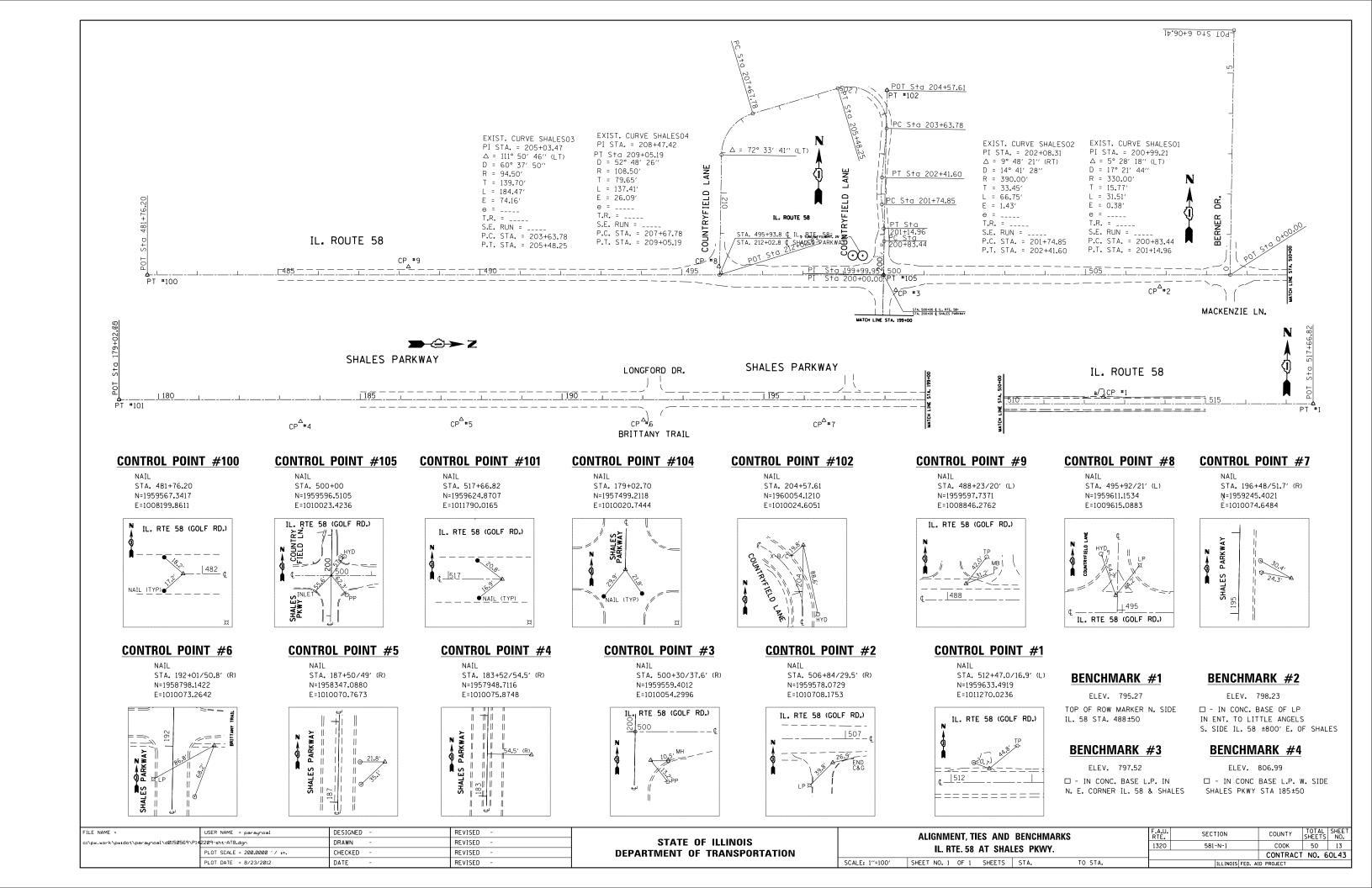
COLUMN 3 QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR SHRINKAGE FACTOR OF 15%.

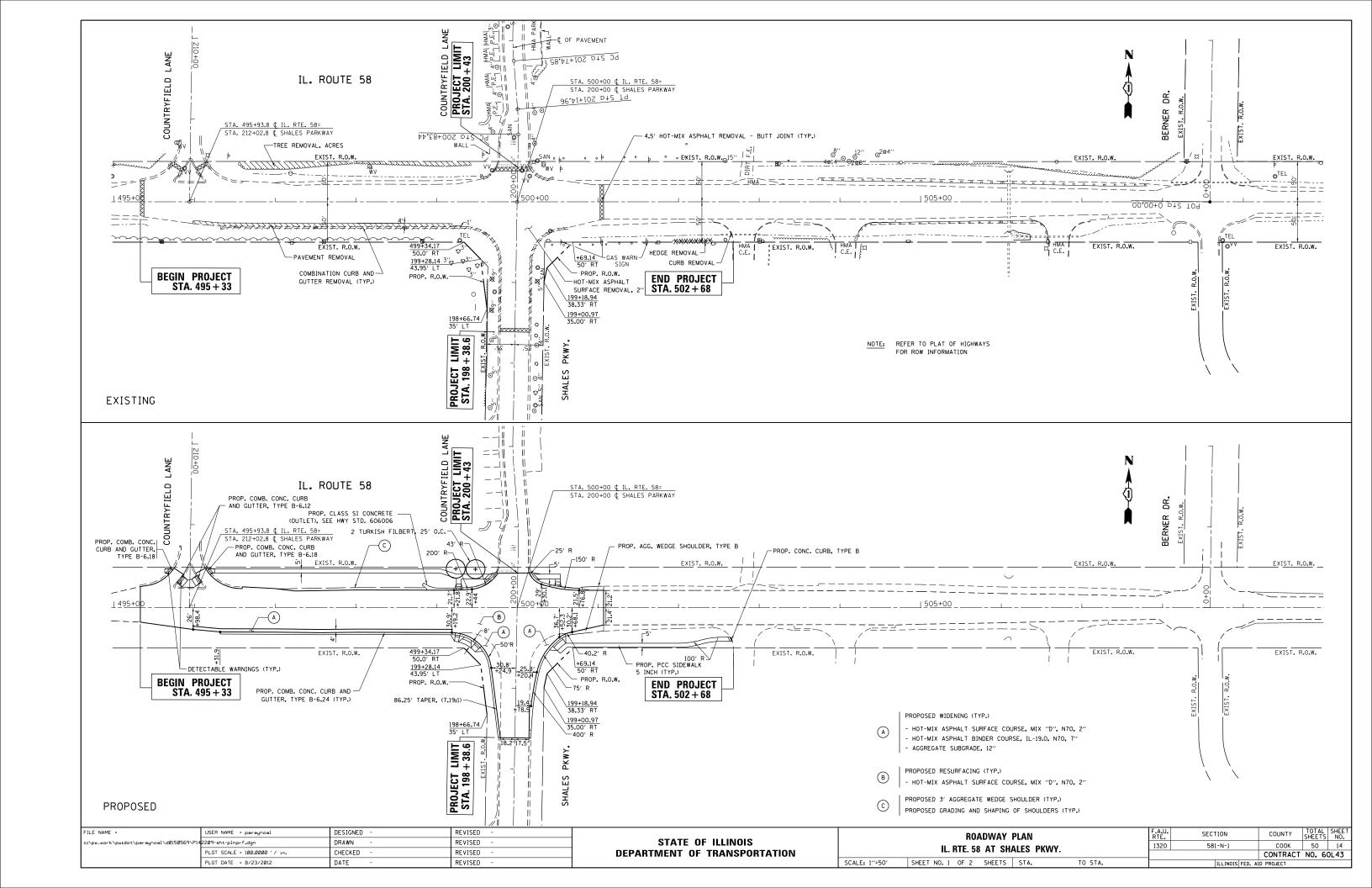
COLUMN 5 EARTHWORK REQUIRED:

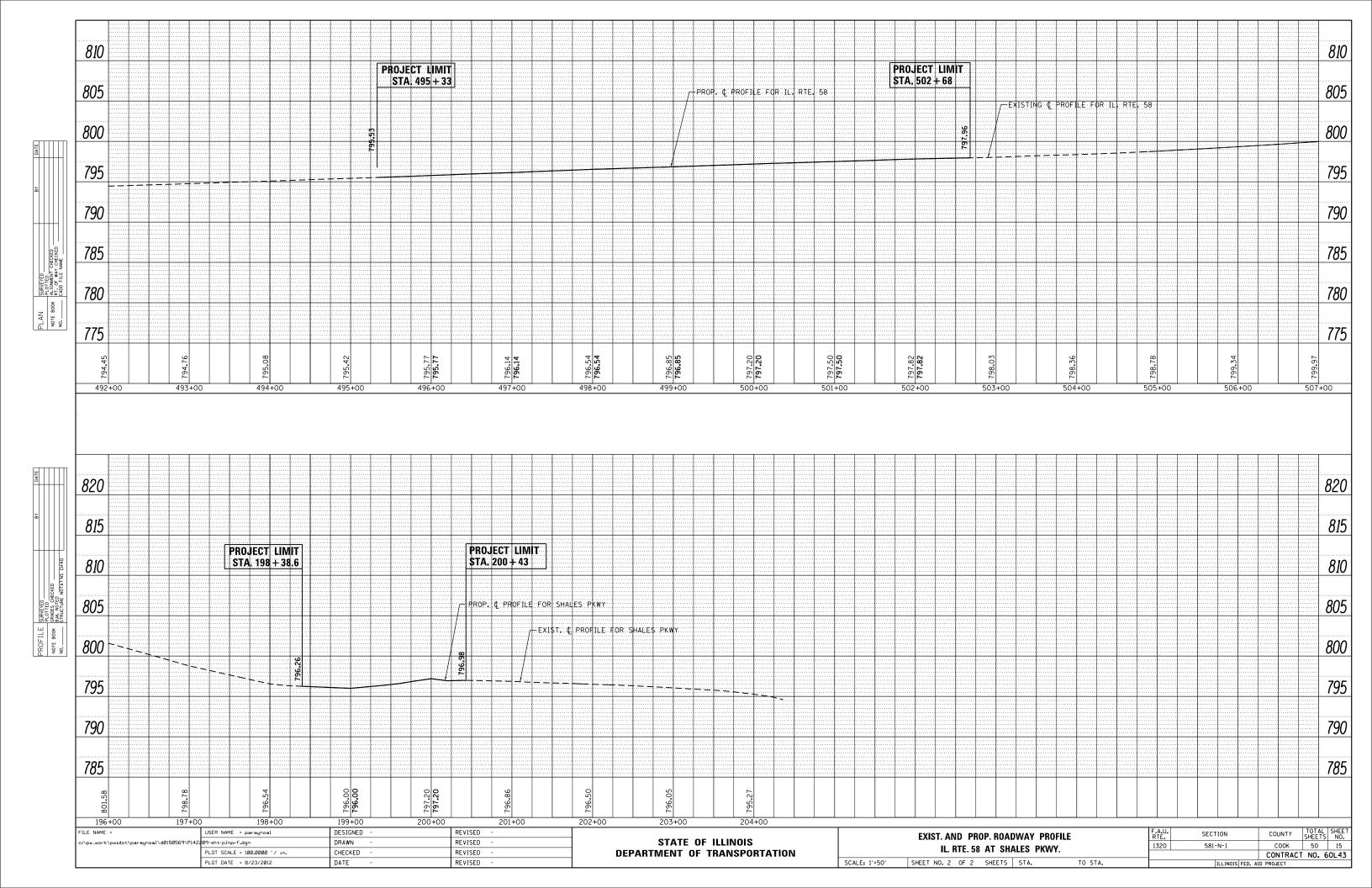
(-) = QUANTITY OF FILL OR EMBANKMENT NEEDED (FURNISHED OR BORROW EXCAVATION)

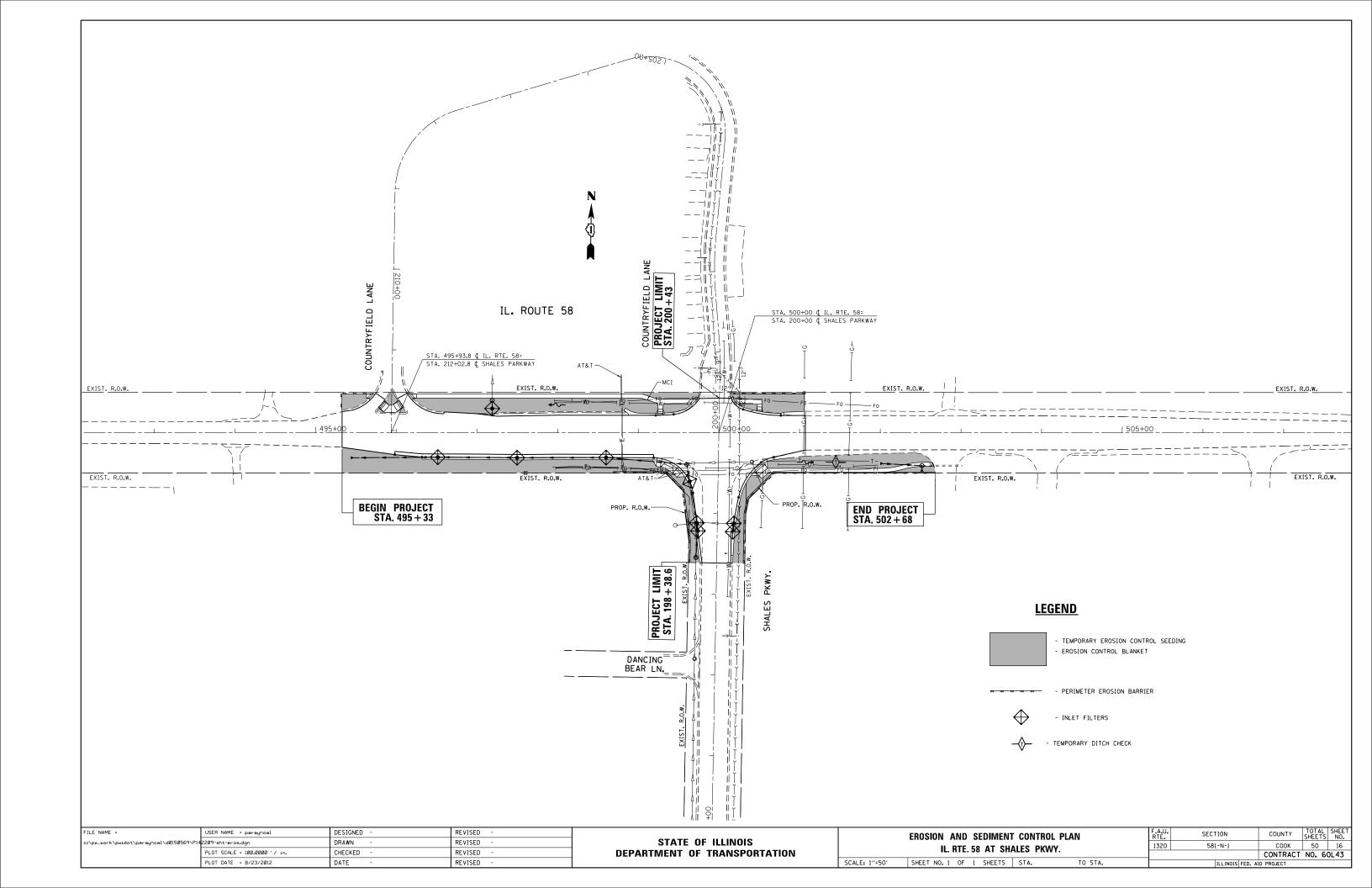
(+) = QUANTITY TO BE WASTED.

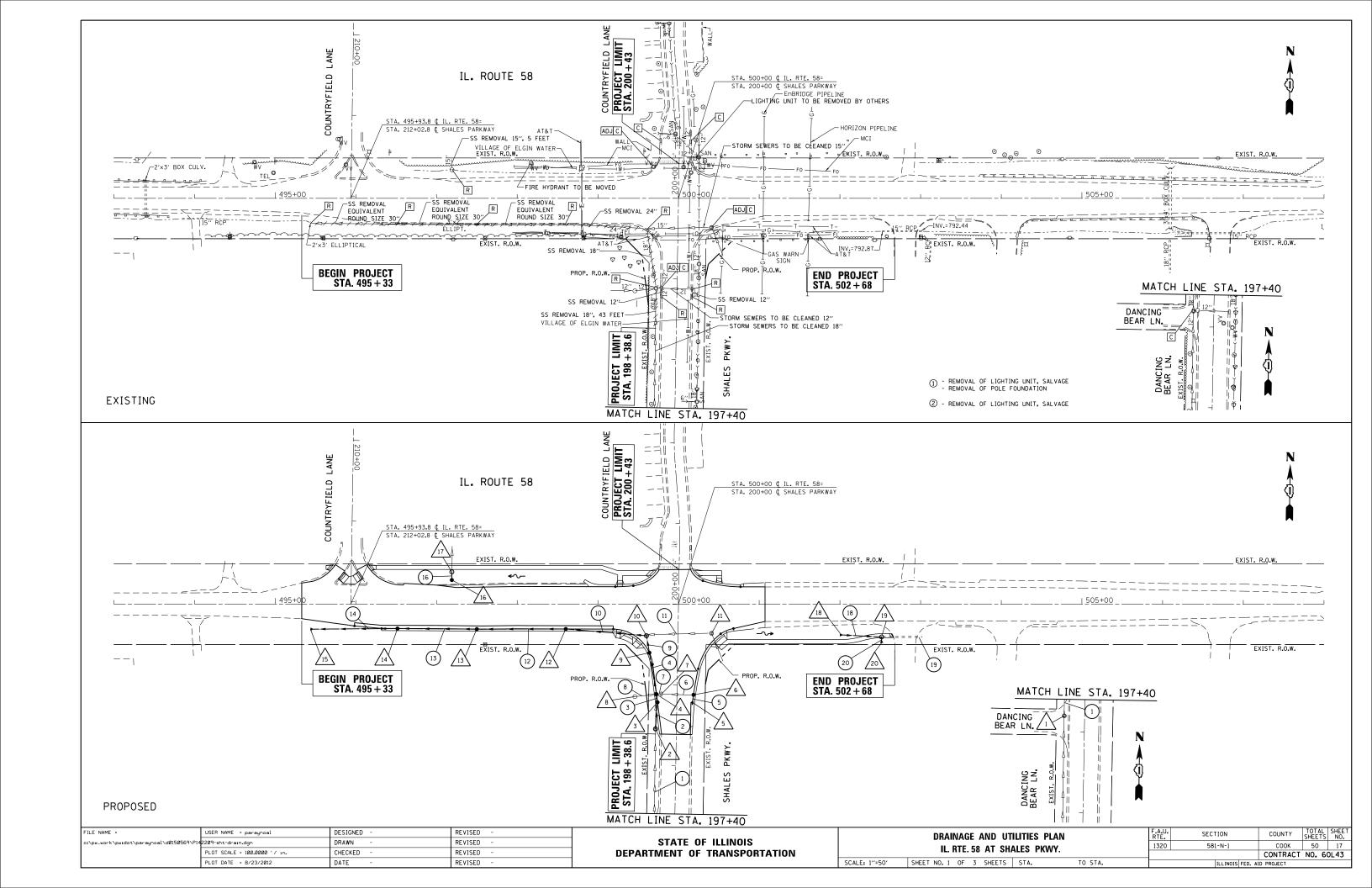
	FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -			SCHEDULES OF Q	IANTITIES		F.A.U RTF	SECTION	COUNTY	TOTAL	SHEET
	c:\pw_work\pwidot\paraynoal\d0273204\Pl4	2209-Design.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					1320	581-N-1	соок	50	12
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		IL. RTE. 58 AT SHA	LES PRVVY.				CONTRACT	NO. 6	0L43
L		PLOT DATE = 8/23/2012	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AI			

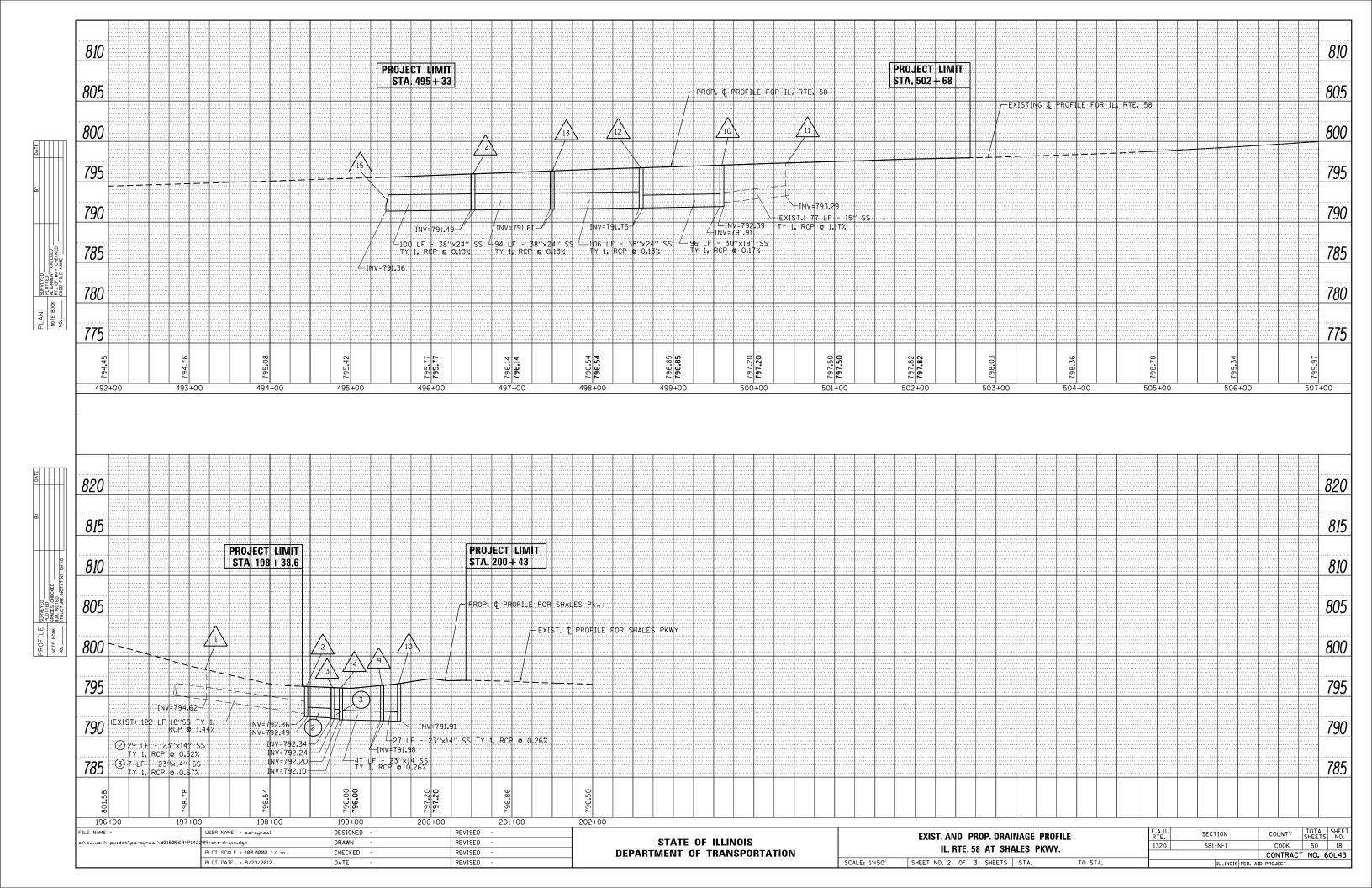












DRAINAGE STRUCTURES TABLE

ſ	STR.	CT.	OFFSET			STR	UCTURE TYPE	DIA.	F&G		INV	ERT ELE	V. (FT)		RIM
	NO.	STA.	(FT)	МН	СВ	IN	OTHER	(FT)	TYPE	N	S	E	W	OTHER	ELEV.
Ī															
	1	197+19.46	25.24 LT				EXIST.		1 CL	794.62	794.62	794.72			798.12
	2	198+45.00	25.81 LT	Α				4	1 CL	792.49	792.86				796.50
	3	198+78.00	23 . 92 LT		Δ			4	24	792.24	792.34				795.36
	4	198+88.00	25.38 LT		Δ			4	24	792.10	792.20	792.10	792.20		795.31
	5	198+78.00	19.38 RT			Α		2	24	792.75					795.34
	6	198+88.00	20.45 RT		Α			4	24		792.71		792.61		795.40
*	7	198+88.36	19 . 30 LT				EXIST.				792.25	792.35	792.35		795.45
	8	198+84.59	52 . 20 LT				EXIST.					792.62	792.72		798.92
	9	199+39.15	35.06 LT		Α			4	24	791.98	791.98				795.94
	10	499+60.26	39 . 12 RT	Α				5	1 CL		791.91	792.39	791.91		796.29
	11	500+40.96	36.11 RT				EXIST.		1 CL				793.29	793 . 29 (SE)	796.59
	12	498+60.24	30.71 RT		Α			5	24			791.75	791.75		796.25
	13	497+49.93	30 . 91 RT		Α			5	24			791.61	791.61		795.82
	14	496+51.65	30 . 19 RT		Α			5	24			791.49	791.49		795.49
	15	495+43.83	31 . 01 RT				RCP FES 38"x24" W/GRATE						791.36		
	16	497+19.00	30.00 LT		С			2	8	792.30					794.23
	17	497+19.00	40.00 LT	Α			WITH 8" RESTRICTOR	6	1 CL	792.24	792.24				797.23
	18	502+00.00	38.00 RT				RCP FES 15"						793.14		
	19	502+51.71	40.68 RT	Α				4	1 CL		794.10	792.87	792.87		796 . 56
	20	502+51.71	48.00 RT				RCP FES 12"				794.40				
l															

* INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID

ALL OF THE ABOVE LISTED DRAINAGE STRUCTURES SHOULD INCLUDE FLAT SLAB TOP.

STORM WATER STRUCTURE OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS:

A) FOR STRUCTURES FALLING IN THE CURB LINE - TO THE EDGE OF THE PAVEMENT. B) FOR ALL OTHER STRUCTURE LOCATIONS - TO THE CENTER OF THE STRUCTURE.

DRAINAGE PIPES TABLE

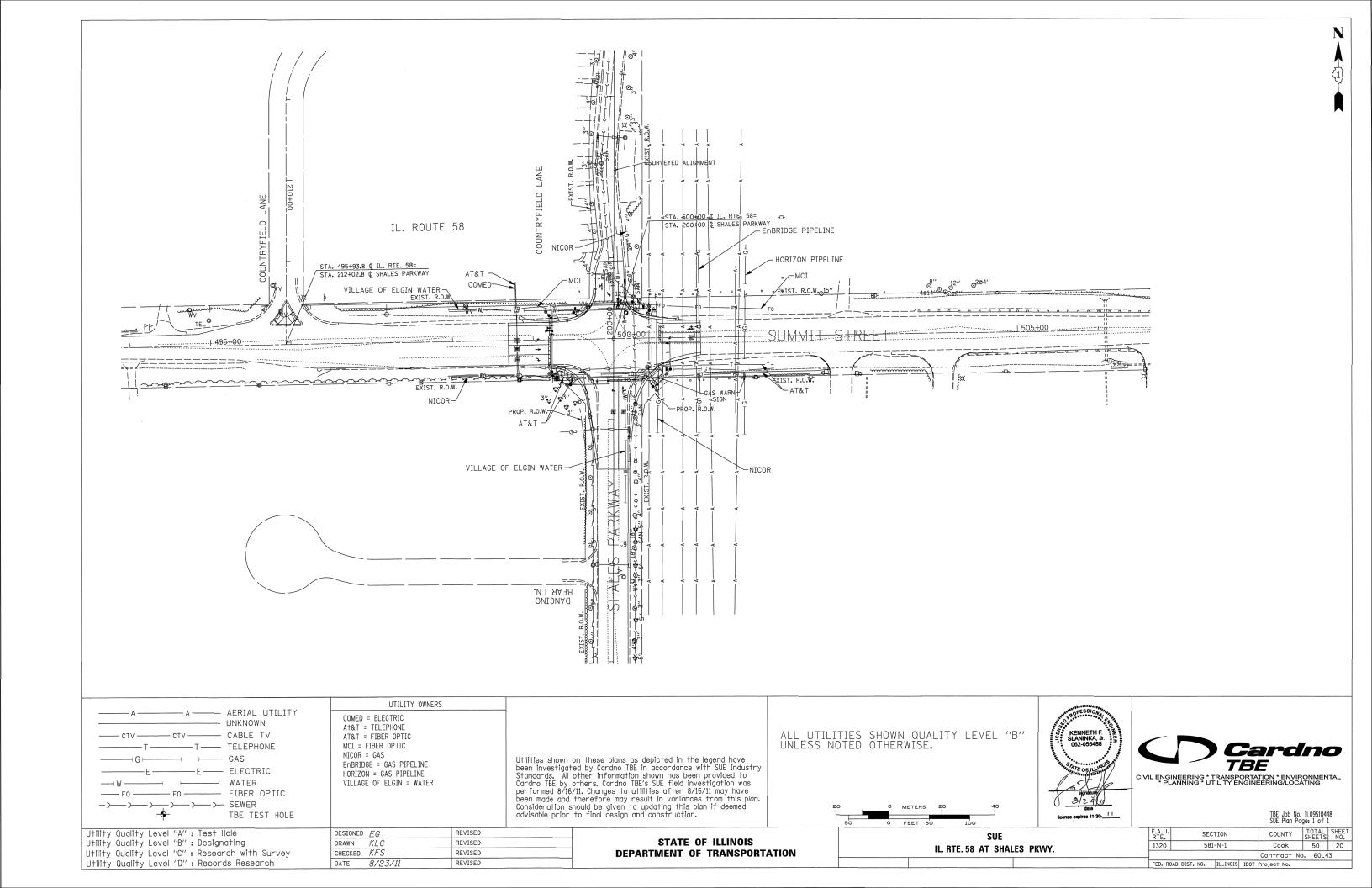
	PIPE LO	CATION					TD51.0
PIPE NO.	FROM STR.	TO STR.	DESCRIPTION / COMMENTS	DIA. (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CY)
1	1	2	EXIST.	18	122	1.44	-
2	2	3	SS, CLASS A, TYPE 1, EQUIV. ROUND-SIZE 18"	23×14	29	0.52	1
3	3	4	SS, CLASS A, TYPE 1, EQUIV. ROUND-SIZE 18"	23×14	7	0.57	1
4	4	9	SS, CLASS A, TYPE 1, EQUIV. ROUND-SIZE 18"	23×14	47	0.26	1
5	5	6	SS, CLASS A, TYPE 1	12	7	0.57	1
6	6	7	SS, CLASS A, TYPE 1, EXTEND EX. PIPE EAST BY 3'	12	37	0.70	-
7	7	4	SS, CLASS A, TYPE 1	12	3	8.33	1
8	8	4	EXIST.	12	23	1.83	-
9	9	10	SS, CLASS A, TYPE 1, EQUIV. ROUND-SIZE 18"	23×14	27	0.26	4.9
10	10	12	SS, CLASS A, TYPE 1, EQUIV. ROUND-SIZE 24"	30×19	96	0.17	20.5
11	11	10	EXIST.	15	77	1.17	-
12	12	13	SS, CLASS A, TYPE 1, EQUIV. ROUND-SIZE 30"	38×24	106	0.13	21.4
13	13	14	SS, CLASS A, TYPE 1, EQUIV. ROUND-SIZE 30"	38×24	94	0.13	15.7
14	14	15	SS, CLASS A, TYPE 1, EQUIV. ROUND-SIZE 30"	38×24	100	0.13	6.7
16	16	17	SS, CLASS A, TYPE 1	15	6	1.00	-
18	18	19	SS, CLASS A, TYPE 1	15	44	0.54	7.8
19	19	-	EXIST.	15	48.5	0.89	-
20	20	19	SS, CLASS A, TYPE 1	12	1	5.00	-

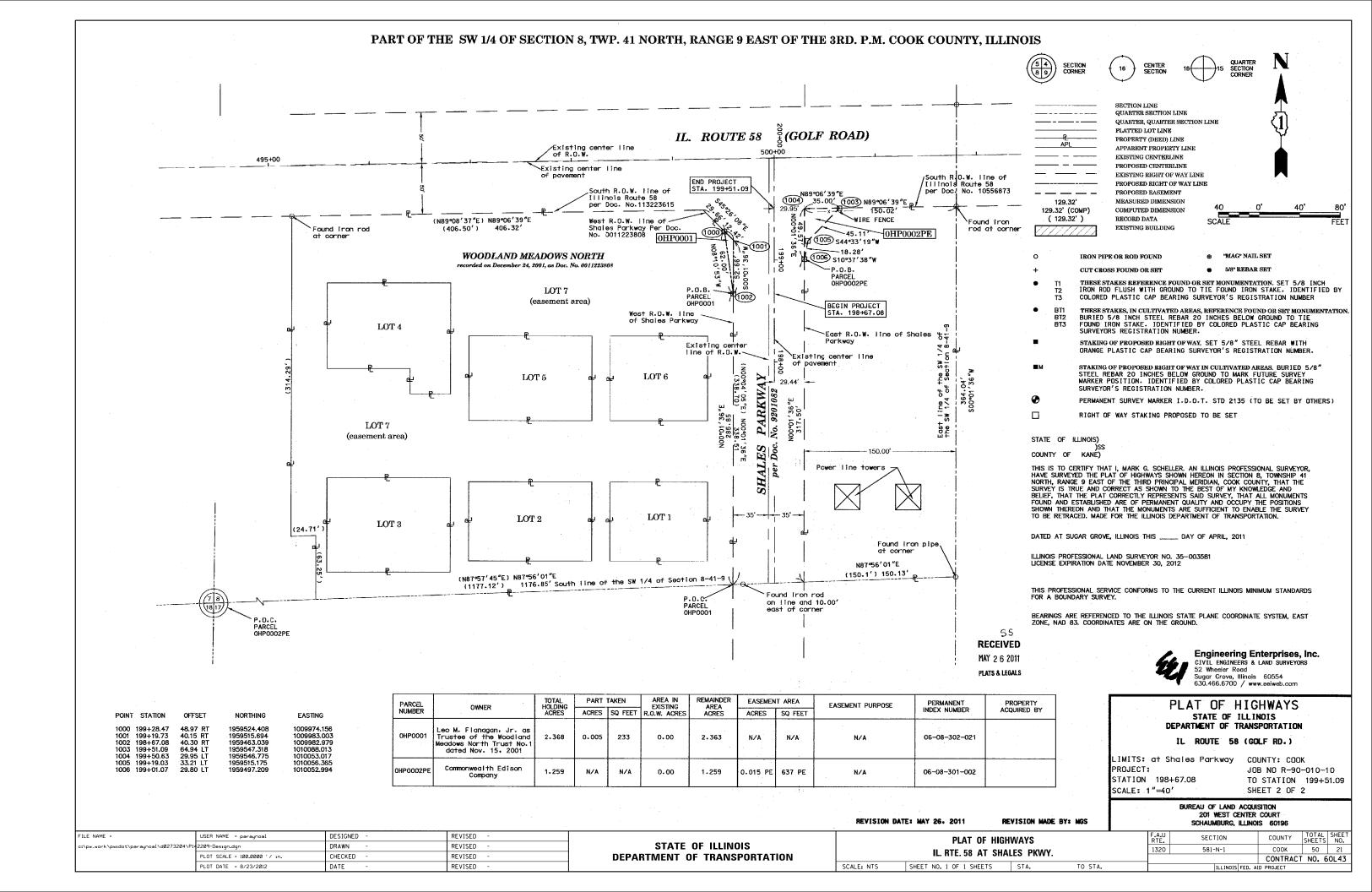
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/23/2012	DATE -	REVISED -

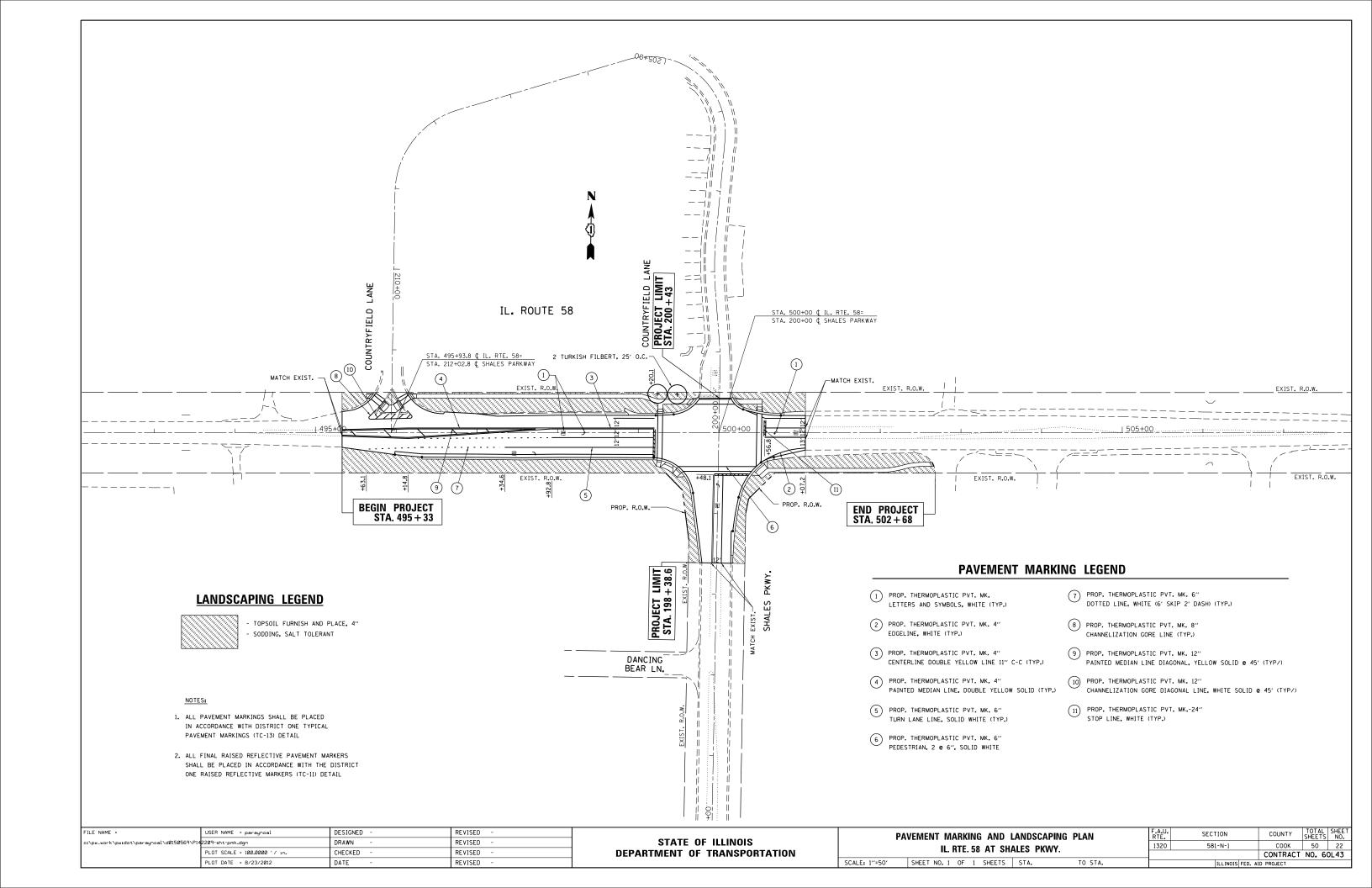
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

SCALE: NONE

DRAINAGE TA	BLES		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL. RTE. 58 AT SHAL	EC DKWV		1320	581-N-1	соок	50	19
IL. IIIL. 30 AT SHAL	LO I KVVI.				CONTRACT	NO. 6	OL43
SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.		TILLINOIS FED. A	ID PROJECT		



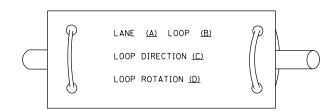




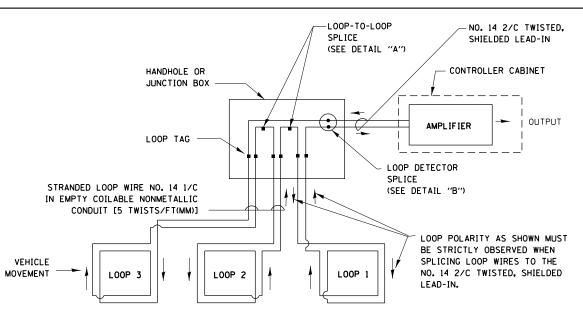
LOOP DETECTOR NOTES

- 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

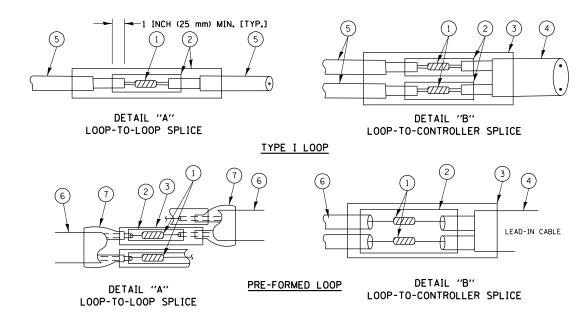


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

- $\hfill \hfill \hfill$
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

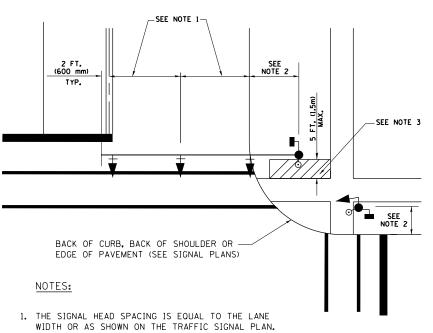
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	PLOT SCALE = 100.0000 ' / in.	CHECKED	-	DAD	REVISED	-	
	PLOT DATE = 8/23/2012	DATE	-	10-28-09	REVISED	-	

STATI	E OF	F ILLINOIS	
DEPARTMENT	0F	TRANSPORTATION	١

	DISTRICT ON	IE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STANDARD TRAFFIC SIGNAL	DESIGN DET	ui e	1320	581-N-1	COOK	50	23
	STANDARD TRAFFIC SIGNAL	DESIGN DETA	AILO		TS-05	CONTRACT	NO.	60L43
SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	D PROJECT				

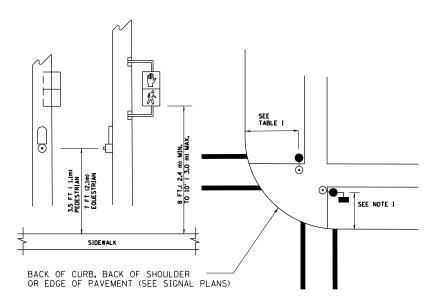
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



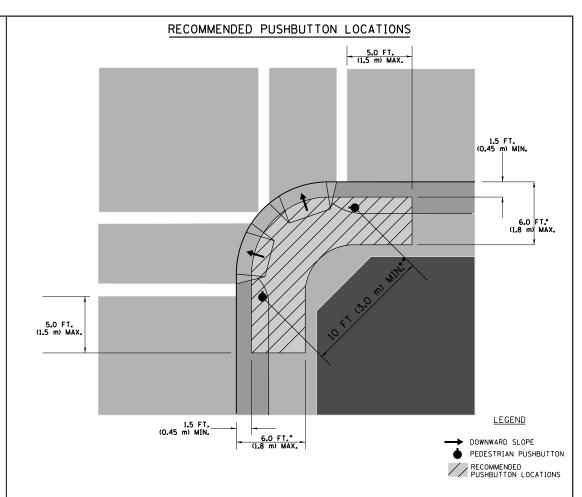
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO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

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

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

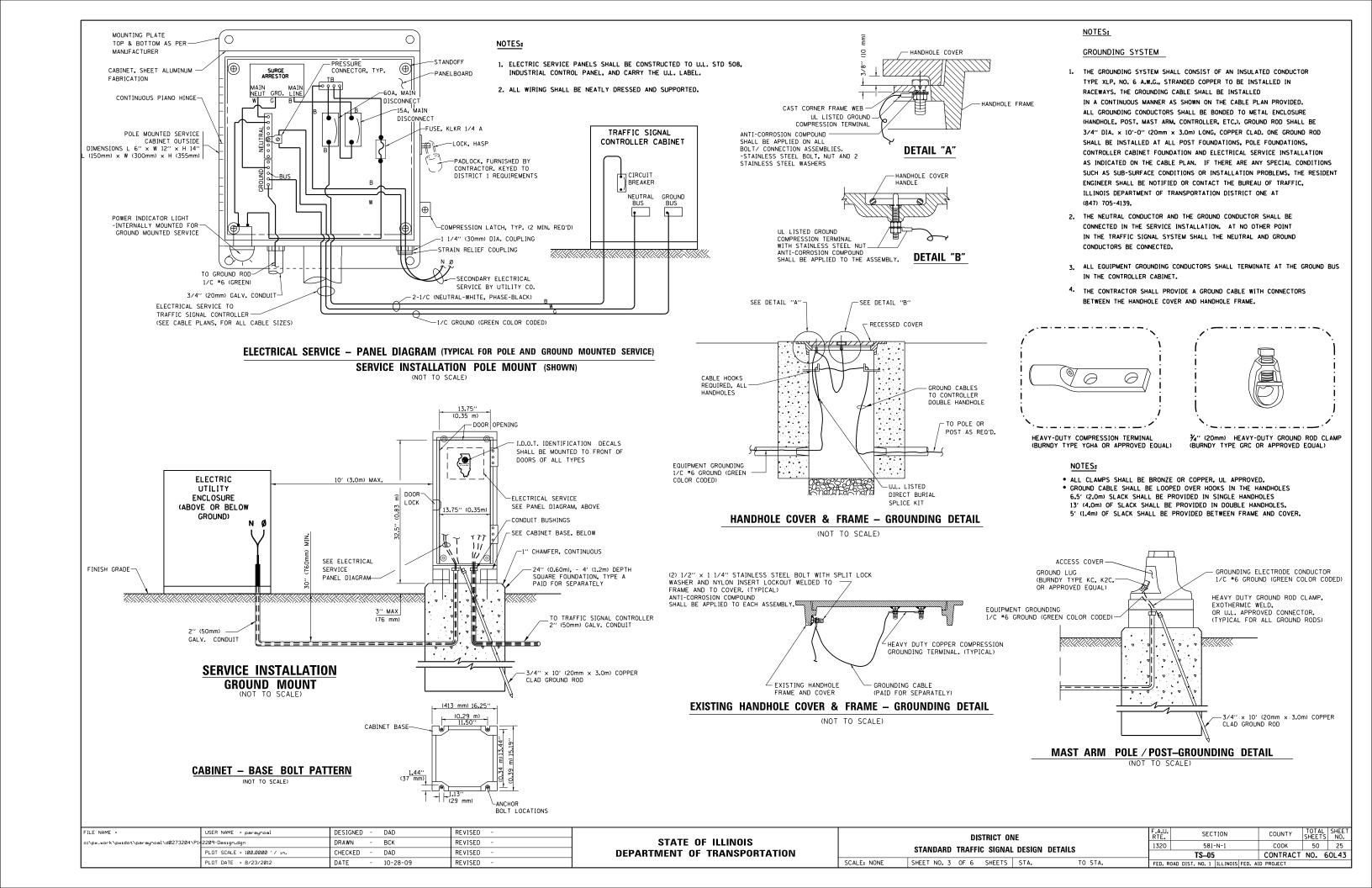
TRAFFIC SIGNAL EQUIPMENT OFFSET

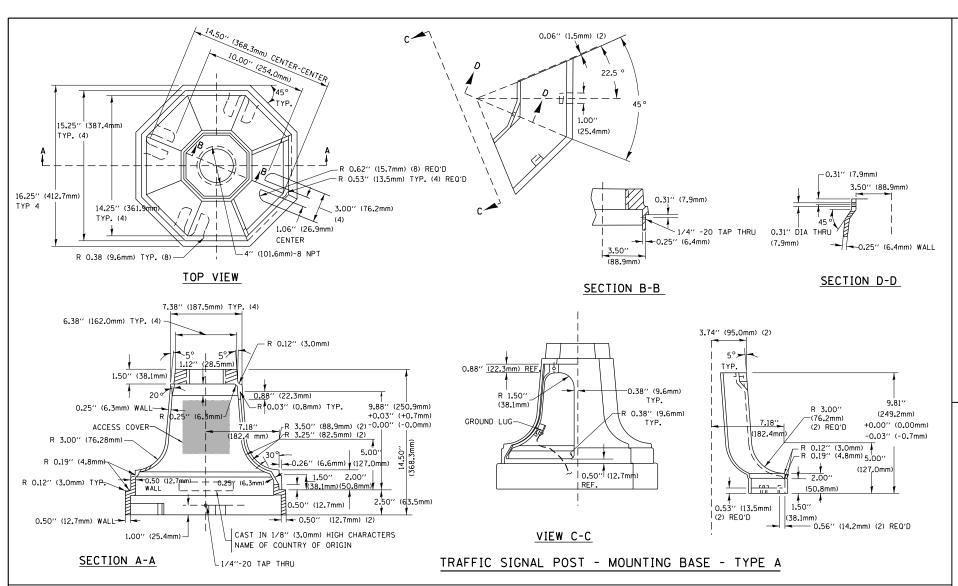
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

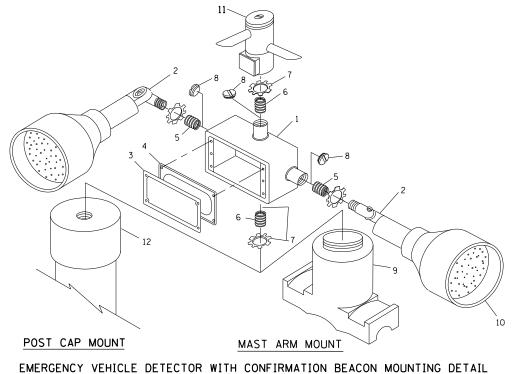
NOTES:

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

FILE NAME : DESIGNED -DAD REVISED USER NAME = paraynoal SECTION COUNTY DISTRICT ONE ::\pw_work\pwidot\paraynoal\d0273204\P 2209-Design.dgr DRAWN BCK REVISED STATE OF ILLINOIS 1320 581-N-1 COOK 50 24 STANDARD TRAFFIC SIGNAL DESIGN DETAILS HECKED DAD REVISED **DEPARTMENT OF TRANSPORTATION** TS-05 CONTRACT NO. 60L43 SCALE: NONE SHEET NO. 2 OF 6 SHEETS STA. REVISED PLOT DATE = 8/23/2012 DATE 10-28-09 FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT







DESIGNED -

DRAWN

DATE

CHECKED

DAD

BCK

DAD

10-28-09

FILE NAME =

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PLOT DATE = 8/23/2012

ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾(''(19 mm) CLOSE NIPPLE
7	¾′′(19 mm) LOCKNUT
8	¾′′(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- 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.

PL AN ELEVATION

HANDHOLE TO INTERCEPT EXISTING CONDUIT

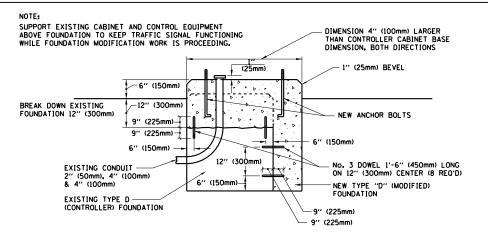
REVISED -				DISTRICT O	VIE.		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET
REVISED -	STATE OF ILLINOIS						1320	581-N-1	COOK	50	26
REVISED -	DEPARTMENT OF TRANSPORTATION			STANDARD TRAFFIC SIGNA	L DESIGN DETA	IIIS		TS-05	CONTRACT	NO. 6	OL43
DEVISED -		CCALE, NON	IC.	CHEET NO 4 OF C CHEETS	CTA	TO CTA					

R2.95" (75mm) B-B R0.50' (12mm) 0.25 -0.25" (6mm PORT 0.25"-0.23"(5mm ___ 0.31′′(8mm) MATERIAL: -0.20"(5mm) - ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED

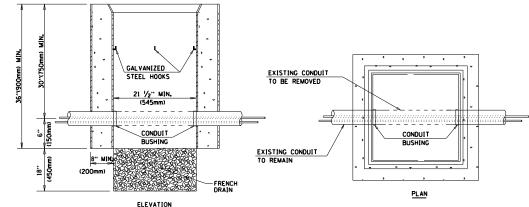
A	В	С	HEIGHT	WEIGHT			
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)			
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)			
VARIES	13.0′′(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)			
VARIES 18.5"(470mm) 37"(940mm)		37''(940mm)	7" (178mm)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

SHROUD

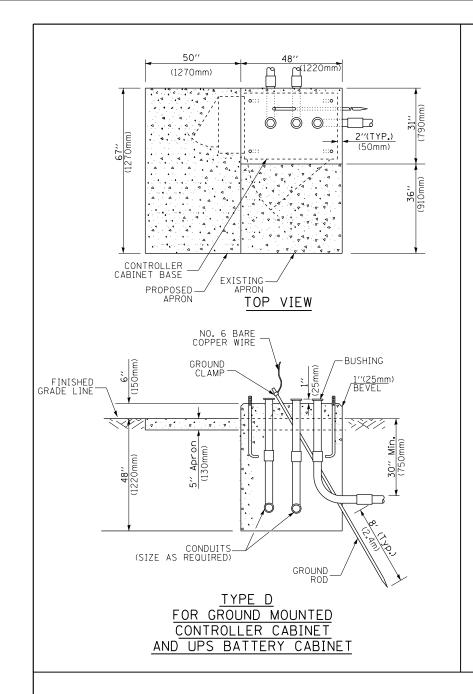
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD.
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

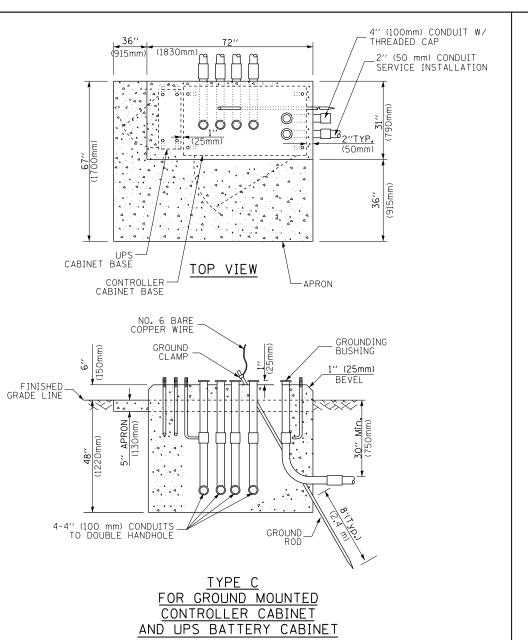


MODIFY EXISTING TYPE "D" FOUNDATION



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





65" (SEE NOTE 4) (1651mm) 49" (SEE NOTE 3) 1245mm) 44" (25mm) WOOD FRAMING (TYP.) CABINET CABINET TRAFFIC SIGNAL CONTROLLER CABINET Y4" (19mm) TREATED PHYWOOD DECK 2" x 6" (51mm x 152mm) TREATED WOOD
48. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN
NOTES: OF THE NOTE OF THE N
BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).

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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

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 - SQUARE	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:

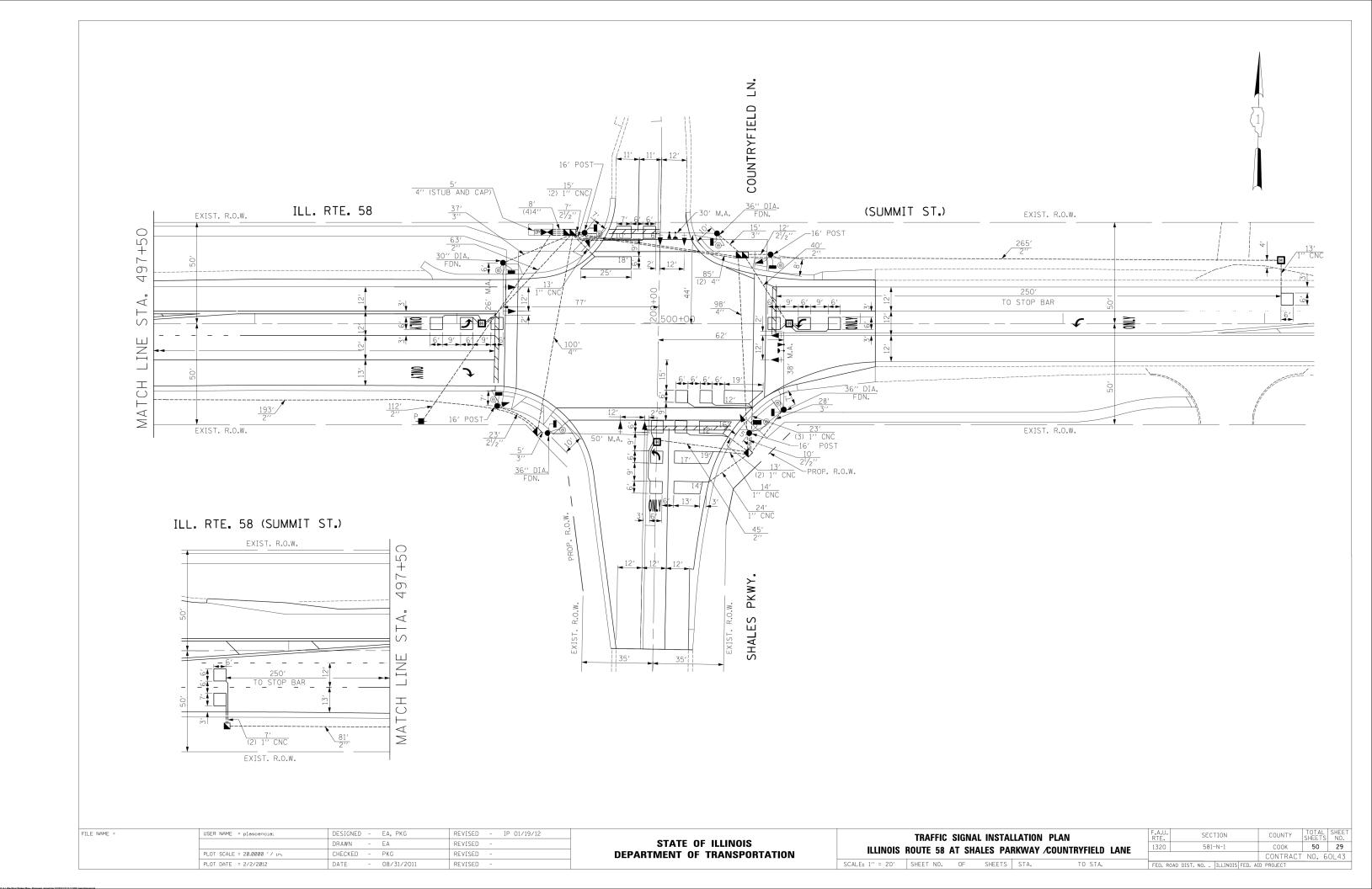
- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination 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 mast arm assemblies with dual arms refer to state standard 878001.

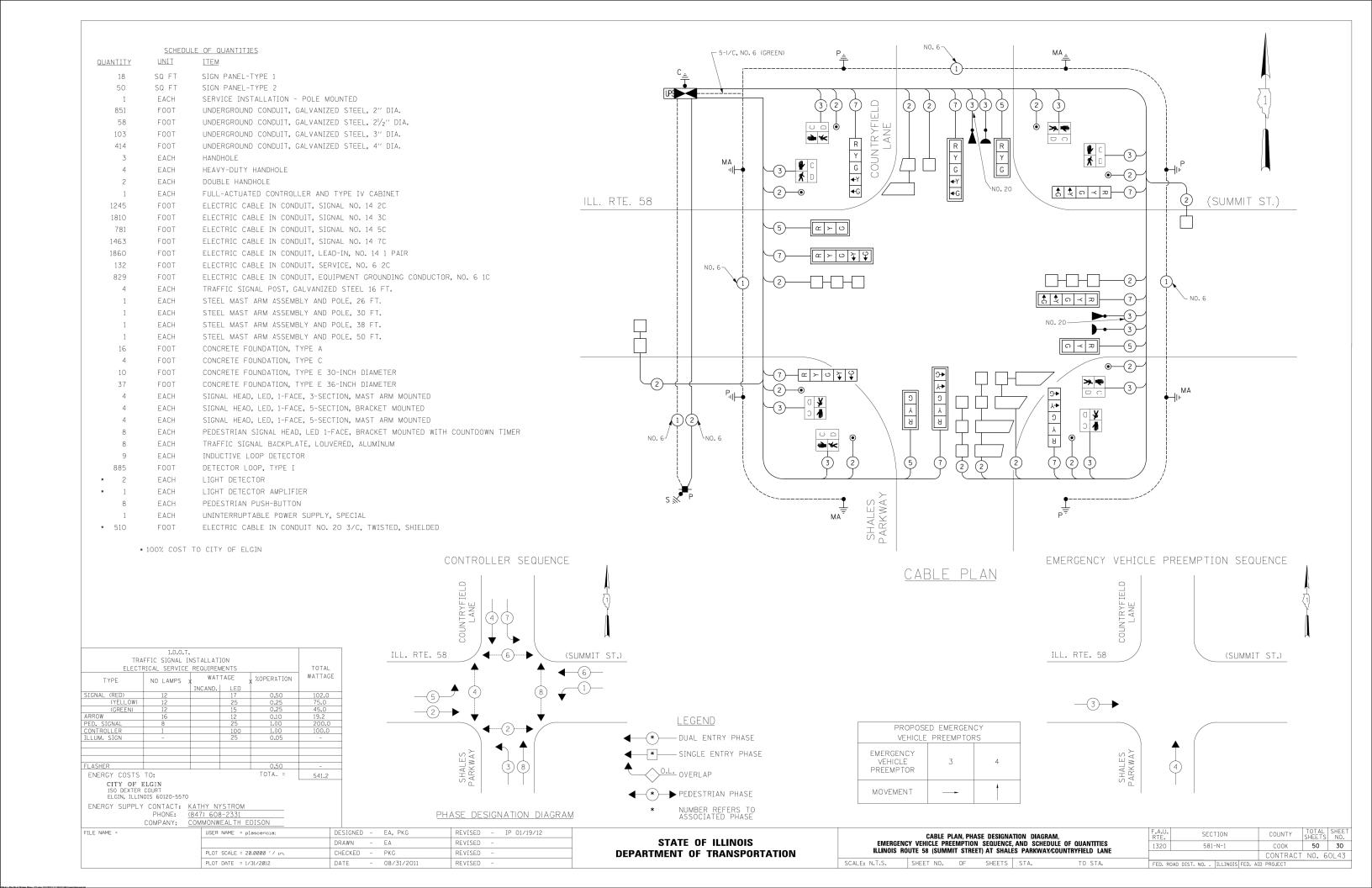
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

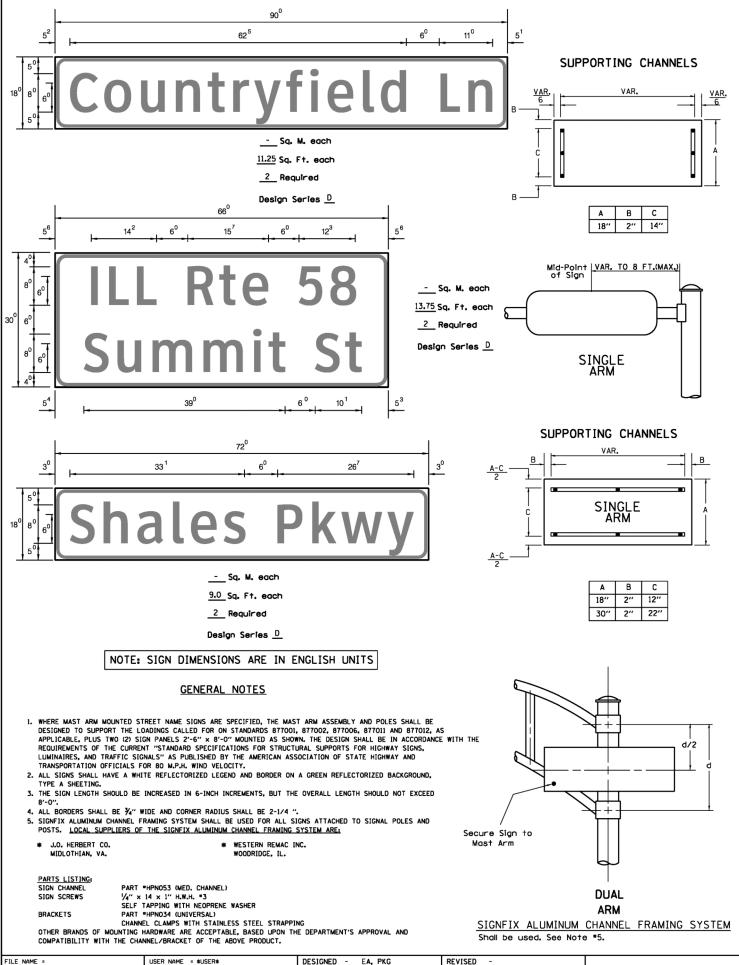
Ī	FILE NAME =	USER NAME = paraynoal	DESIGNED - DAG	REVISED -			DISTRICT ONE	F.	.A.U.	SECTION	COUNTY	TOTAL	SHEET	ſ
	c:\pw_work\pwidot\paraynoal\d0273204\Pl4	2209-Design.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			1	320	581-N-1	соок	50	27	-
		PLOT SCALE = 100.0000 ' / in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		T	S-05	CONTRACT	T NO. F	60L43	,-
- 1		PLOT DATE = 8/23/2012	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 6 SHEETS STA. TO STA.	F		IO. 1 ILLINOIS FED.	ID PROJECT			-

TRAFFIC SIGNAL LEGEND

DIVERSE SOME HEAD OF THAT IT STORM THE STORM SOME HEAD WITH SO YEAR OF STORM ASSEMBLY WILLIAM AND CHARGE STORM ASSEMBLY WILLIAM ASSEMBLY WILLI	TEMPORARY WOOD POLE (CLASS 5 OR	R ⊗	\otimes		RELOCATE ITEM				STEEL MAST ARM POLE AND	RMF		
TOWN FOR THE PROPERTY OF STACES OF THE CONTROL STACES OF THE CONTR		^R ○ R⊗	○⊗	•		RL			FOUNDATION TO BE REMOVED	RMF		
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SOMAL HEAD WITH BASIONLATE ### ### ### ### ### ### ### ### ### #	SIGNAL HEAD CONSTRUCTION STAGES	7		→ ²					STEEL COMBINATION MAST ARM ASSEMBLY			
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ILLIMINATED SIGN "NO RICHT TURN" ILLIMINATED SIGN INTERNATIONAL SYMBOL, OUTLINED ILLIMINATED SIGNAL HEAD INTERNATIONAL SYMBOL ILLIMINATED SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED ILLIMINATED SIGNAL HEAD INTERNATI	ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS					◆ G		UK		
ILLUMINATED SIGN "NO RICHT TURN" DETECTOR LOOP, TYPE I PREFORMED DETECTOR LOOP PREFORMED SAMPLING (SYSTEM) DETECTOR PR		R S		lacksquare			"P"		PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR		
DETECTOR LOOP, TYPE I PREFORMED DETECTOR LOOP INTERNATIONAL SYMBOL, SOLID 12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID 12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID RAILROAD SYMBOLS RAILROAD SYMBOLS EXISTING PROPOSED PROPOSED PROPOSED PROPOSED PAN. TILT, ZOOM CAMERA PAN. TILT, ZOOM CAMERA PROPOSED INTERNATIONAL SYMBOL, OUTLINED 12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID 12	ILLUMINATED SIGN										PIS	PIS
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MICROWAVE VEHICLE SENSOR Red Pedestrian Signal Head, international Symbol, with countdown timer Pedestrian signal Head, international Symbol, with countdown timer Pedestrian signal Head, international Symbol, with countdown timer Radio interconnect Radio interconnect Radio repeater Radio repeat	DETECTOR LOOP, TYPE I		' <u> </u>							01/11/11		
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VIDEO DETECTION ZONE RADIO INTERCONNECT RADIO INTERCONNECT RADIO REPEATER RER ERR RR RAILROAD CANTILEVER MAST ARM RAILROAD CANTILEVER MAST ARM FLASHING SIGNAL DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, STORY CABLE NO. 14, UNLESS NOTED OTHERWISE, TO YOUR THAT IN THE CONTROL OF	MICROWAVE VEHICLE SENSOR	R M)	(M)	M			(C) C	₽ C ★ D			<u>EXISTING</u>	PROPOSED
VIDEO DETECTION ZONE RADIO REPEATER RADIO RE	VIDEO DETECTION CAMERA	R [V]		(V)•	RADIO INTERCONNECT	##*O	##*		RAILROAD CONTROL CABINET			
PAN, TILT, ZOOM CAMERA PAN, T	VIDEO DETECTION ZONE				PANIO REPEATER	1.		·	RAILROAD CANTILEVER MAST ARM	Xe	XXX	XeX X
CABLE NO. 14, UNLESS NOTED OTHERWISE, (5)— (5)— CROSSING CATE	PAN TILT 700M CAMERA	R	र्माव			EKK	ERR	_ <u> </u>	FLASHING SIGNAL		$\times \Theta \times$	X ⊕ X
WIRELESS DETECTOR SENSOR		_		_	CABLE NO. 14, UNLESS NOTED OTHERWISE,				CROSSING GATE		202 >	**
WIRELESS ACCESS POINT GROUND CABLE IN CONDUIT NO 6 SOLID COPPER (CREEN) CROSSBUCK CROSSBUCK CROSSBUCK CROSSBUCK	WIRELESS DETECTOR SENSOR	(M))	(W))	(W)			~		CROSSBUCK		≥	







DRAWN - EA

CHECKED - PKG

08/31/2011

DATE

PLOT SCALE = \$SCALE\$

PLOT DATE = \$DATE\$

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Upper Case To Lower Case

Spacing Chart 8-6 Inch Series "C & D"

EXAM

EXAMPLE, 2^{3} DENOTES $\frac{3}{8}$

UPPER AND LOWER CASE LETTER WIDTHS

							SEC	ONI	L	ETT	ER						
				шni		f	w]	i	s	t	v	У	,	‹	7	Z
	SERIES	С	D	С	D	U	D	С	D	ပ	D	С	D	С	D	U	D
	A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	12	12	14
	В	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17
	CEG	14	15	20	21	12	14	06	10	12	14	12	14	14	1 ⁵	14	1 ⁵
-	D 0 0 R	14	15	2 0	21	14	15	06	10	12	14	12	14	14	15	14	15
Ş	F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	11	12
5	HIMN	20	21	22	24	20	2 ¹	14	15	16	17	16	17	20	21	20	21
ı	JU	2 0	2 1	20	21	16	17	14	1 ⁵	16	17	16	17	16	17	20	21
	K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14
Γ Γ	Р	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14
2	S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
	T	11	12	16	17	06	10	06	10	1 ¹	12	1 ¹	12	11	12	12	14
	٧	06	10	14	15	1 ¹	12	06	10	12	14	12	14	12	14	12	14
	Υ	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
	Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

							SE	CON	٩D	LET	TEF	₹					
			d e o q	m n i		f	w		j	s	†	٧	У	,	•	2	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
F		· [~	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
F	bfkops	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
ין	се	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
	r	06	10	12	14	06	10	03	03	05	06	05	06	0e	10	06	10
	† z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
		11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
'	` w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
L	×	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number Spacing Chart 8 Inch Series "C & D"

					SECOND NUMBER																		
)		1	2	2	-	3	4	4		5	(5		7	8	3	9	•
	SE	RIE	ES	С	D	С	D	С	D	С	ם	С	D	C	D	С	D	C	D	С	D	С	D
F	0	9		16	17	16	17	14	1 ⁵	12	14	14	1 ⁵	14	15	16	17	12	14	16	17	16	17
R	1			2 ⁰	2 ¹	20	2 ¹	2 ⁰	2 ¹	16	17	14	1 ⁵	2 ⁰	21	2 ⁰	21	14	1 ⁵	20	2 ¹	20	2 ¹
т	2	3	4	14	1 ⁵	14	1 ⁵	14	1 ⁵	12	14	12	14	14	1 ⁵	14	1 ⁵	11	12	16	17	14	1 ⁵
N U	5			14	1 ⁵	14	1 ⁵	14	1 ⁵	11	12	11	12	14	15	14	1 ⁵	11	12	14	1 ⁵	14	15
M B	6			16	17	14	1 ⁵	14	1 ⁵	12	1 ⁵	12	14	14	1 ⁵	14	1 ⁵	11	12	14	1 ⁵	14	1 ⁵
E R	7			12	14	12	14	14	1 ⁵	1 ²	1 ⁵	0 ⁵	06	12	14	14	1 ⁵	1 ¹	12	14	1 ⁵	12	14
	8			16	17	16	17	14	1 ⁵	1 ²	1 ⁵	1 ²	14	14	1 ⁵	16	17	12	14	16	17	14	15

SCALE:

SHEET NO.

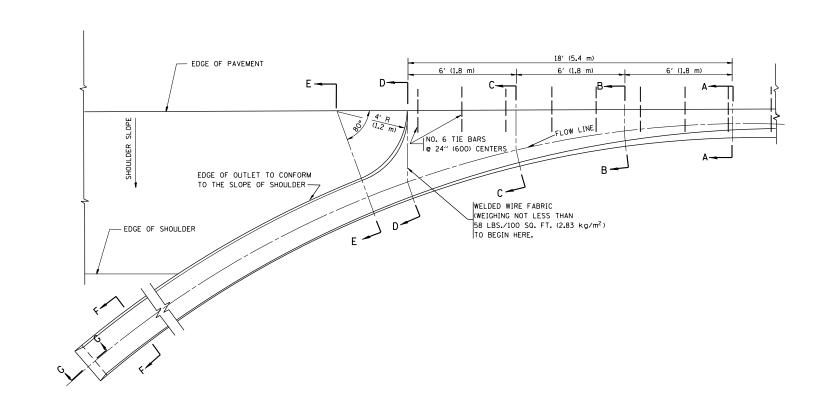
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

L E T E R S		UPPER		H UPPER LETTERS	L E T T		LOWER
T E	SEF	RIES	SE	RIES	E R S	SEF	RIES
R S	С	D	С	D	R S	С	D
A	36	50	5 ⁰	6 ⁵	٥	35	42
В	3 ²	40	4 3	53	Ь	35	42
C	3 ²	40	43	53	O	35	4 1
O	32	40	4 3	53	٥	35	42
Е	30	35	40	4 7	е	35	42
F	30	35	40	47	f	2 3	26
G	32	40	43	53	g	35	42
н	32	40	43	53	h	35	42
I	07	07	11	12	1	11	11
۲	30	36	40	50	j	20	22
К	32	41	43	54	k	35	42
L	30	35	40	4 7	ı	11	11
M	37	45	51	6 ¹	Э	60	70
N	3 ²	40	43	53	n	35	42
0	34	42	45	5 ⁵	٥	36	43
Р	32	40	4 3	53	Р	35	42
0	34	42	45	55	q	35	42
R	32	40	43	53	r	26	32
S	32	40	43	53	s	36	42
Ţ	30	35	40	4 7	+	2 7	32
U	32	40	43	53	U	35	42
٧	35	44	4 7	6°	v	4 ²	47
W	44	52	60	70	w	55	64
x	34	40	45	53	×	44	51
Y	36	50	50	66	У	46	53
Z	3 ²	40	43	53	z	36	43

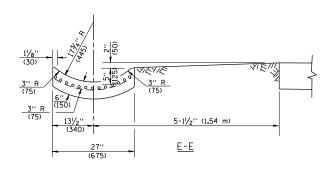
6 INCH	SERIES	8 INCH	SERIES
С	D	С	D
12	14	15	20
32	40	43	53
32	40	43	5 3
35	43	47	57
32	40	43	53
32	40	43	53
32	40	43	53
32	40	43	53
32	40	43	53
34	42	45	55
	C 12 32 32 35 32 32 32 32 32	12 14 32 40 32 40 35 43 32 40 32 40 32 40 32 40 32 40	C D C 12 14 15 32 40 43 32 40 43 35 43 47 32 40 43 32 40 43 32 40 43 32 40 43 32 40 43 32 40 43 32 40 43

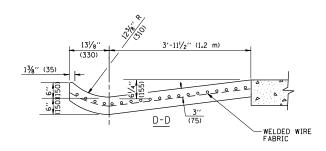
MAST	ARM MO	UNTED			F.A.U. RTE.	SEC.	ΓΙΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.
STRE	ET NAME S	SIGNS			1320	581-	-N-1	COOK	50	31
						PRELIM	MINARY	CONTRACT	NO. 6	0L43
OF	SHEETS	STA.	TO 9	STA.	FED. RO	AD DIST. NO.	ILLINOIS FED. AT	D PROJECT		

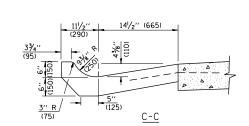


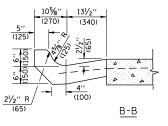


* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.









GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

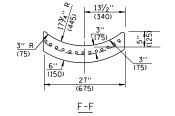
TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.

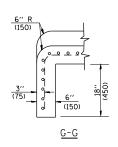
IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL= 1.25 CU. YDS. (0.96 m^3) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T. 1.27 CU. YDS. (0.96 m^3) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T. FOR SECTION F-E= 0.045 CU. YDS. (0.03 m^3) CLASS SI CONCRETE PER ft. (m).

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

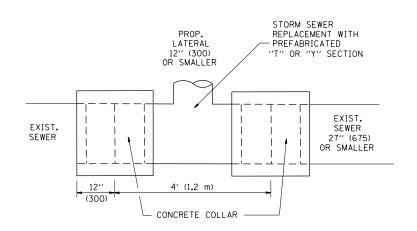




FILE NAME =	USER NAME = paraynoal	DESIGNED - M. DE YONG	REVISED -	R. SHAH 09-09-94
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	E. GOMEZ 12-21-00
	PLOT DATE = 8/23/2012	DATE - 08-04-86	REVISED -	

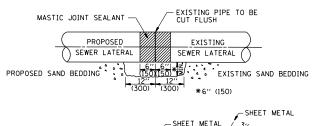
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

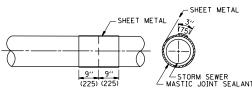
	OUTLET	F.A.U. RTE.			TOTAL SHEETS				
	CURB	1320	581-N-1	соок	50	32			
	COND	AND GC	JTER		В	D600-01 (BD-03)	CONTRACT	NO. 6	50L43
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.						OAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

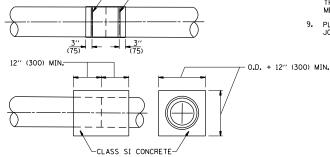


DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER







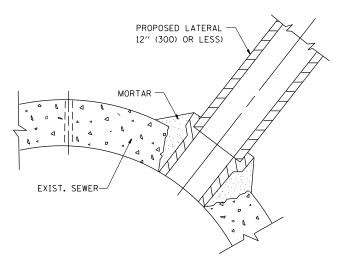
METAL BINDING

<u>DETAIL "B"</u> CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- 2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- 3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' × 6' (300 × 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- 4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
- . WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- 6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- 7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- 8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- 9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

ÁLL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS ÓTHERWISE SHOWN.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

 A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUIAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REOUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

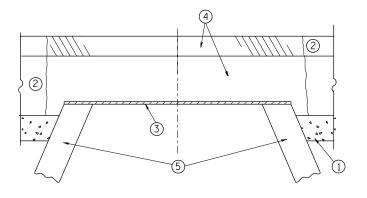
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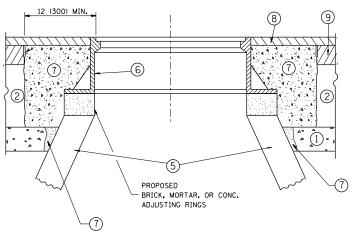
CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER
WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED
STORM SEWER

FILE NAME =	USER NAME = paraynoal	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. SHAH 10-25-94
1	PLOT DATE = 8/23/2012	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						581-N-1	соок	50	33
	CONNECTION TO EXISTING SEVER					BD500-01 (BD-7) CONTRACT			
SHEET NO. 1 OF 1 SHEETS STA. TO STA.					FED. R	OAD DIST, NO. 1 ILLINOIS FED. A	ID PROJECT		





EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM
- AROUND THE STRUCTURE.

 B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE. D) BACKFILL WITH CRUSHED STONE AND A MINIMUM $1\frac{1}{2}$ (40)
- THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

(5) EXISTING STRUCTURE

- (7) CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (9) PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK. THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

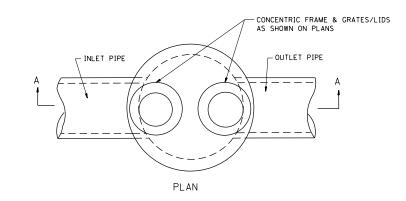
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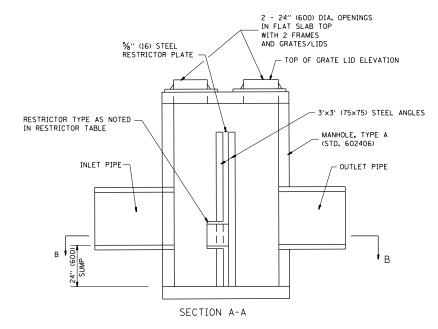
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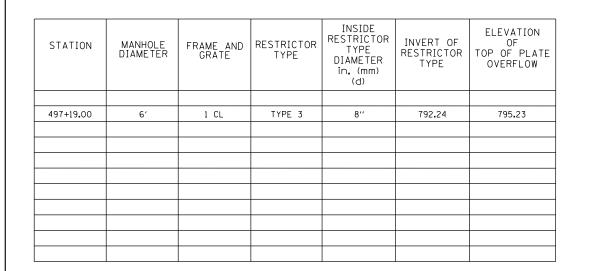
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

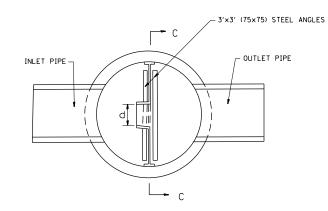
	DETAILS FOR									
	1320	581-N-1								
	FRAMES AND LIDS ADJUSTMENT WITH MILLING									
SCALE: NONE	SHEET NO. 1 (OF 1 SHEE	S STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLIN				

COOK 50 34 CONTRACT NO. 60L43 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

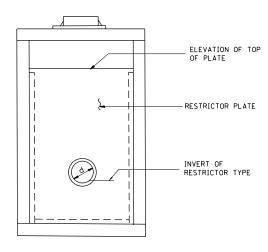




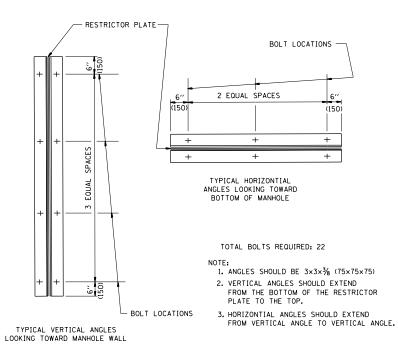


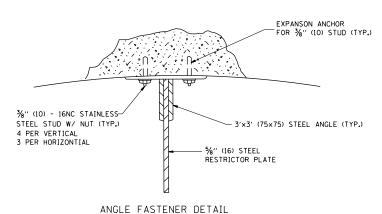


SECTION B-B



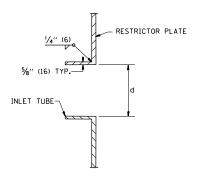
SECTION C-C





NOTES:

- ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
- 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
- 3. BASIS OF PAYMENT: "MANHOLES TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



INLET TUBE DETAIL

RESTRICTOR TYPE								
1	2	3	4	5	6			
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED			
LENGTH: 1/2 TO 1 DIA.	STREAM CLEARS SIDES		LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.				
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98			

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

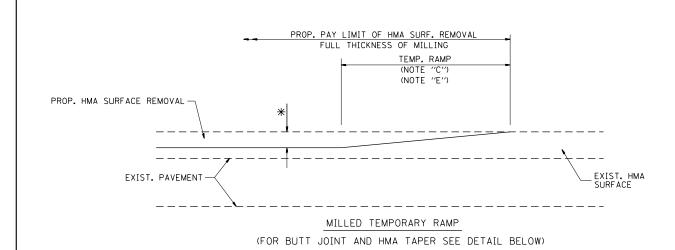
STEEL ANGLE BOLTING DETAILS

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

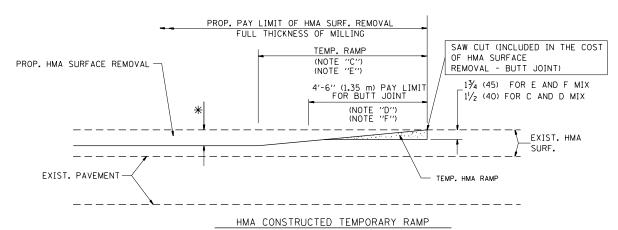
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	PLOT SCALE = 100.0000 '/ in.	CHECKED	-		REVISED	-	M. GOMEZ 01-08-01
	PLOT DATE = 8/23/2012	DATE	-	09-09-94	REVISED	_	

STATE OF ILLINOIS							
DEPARTMENT OF TRANSPORTATION	N						

	MANHOLE WITH RESTRICTOR PLATE					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						1320	581-N-1	соок	50	35	
							BI	D600-04 (BD-12)	CONTRACT	NO. 6	50L43
	SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED RO	DAD DIST NO 1 THE INDIS FED A	ID PROJECT		



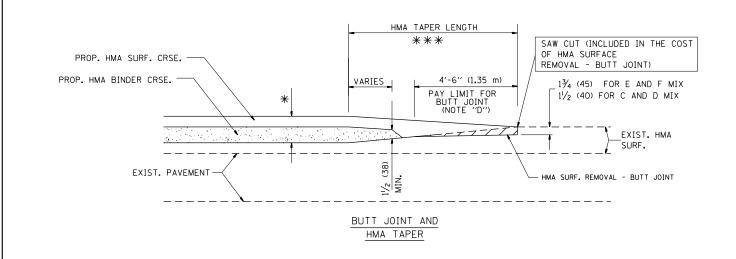
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

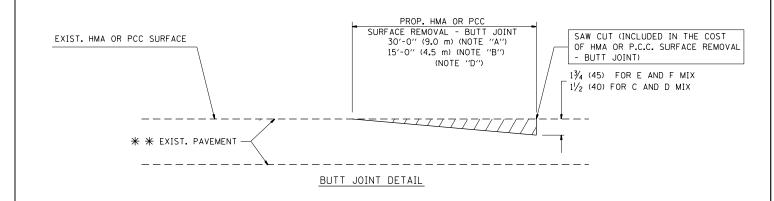
OPTION 2

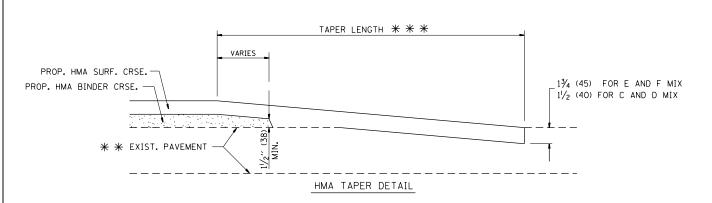
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

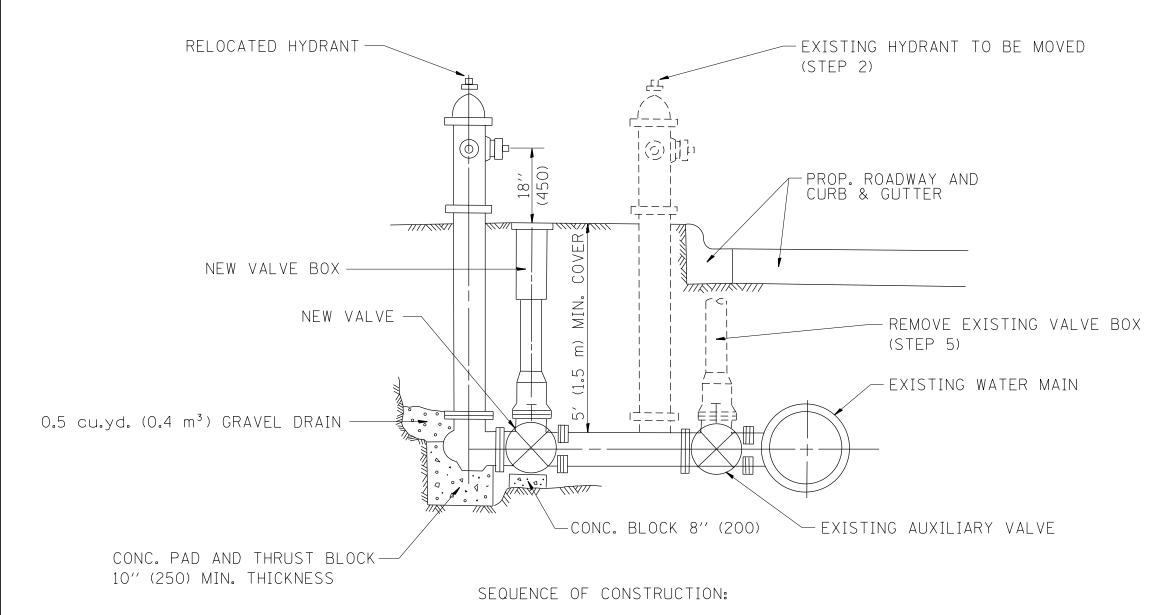
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- : MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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



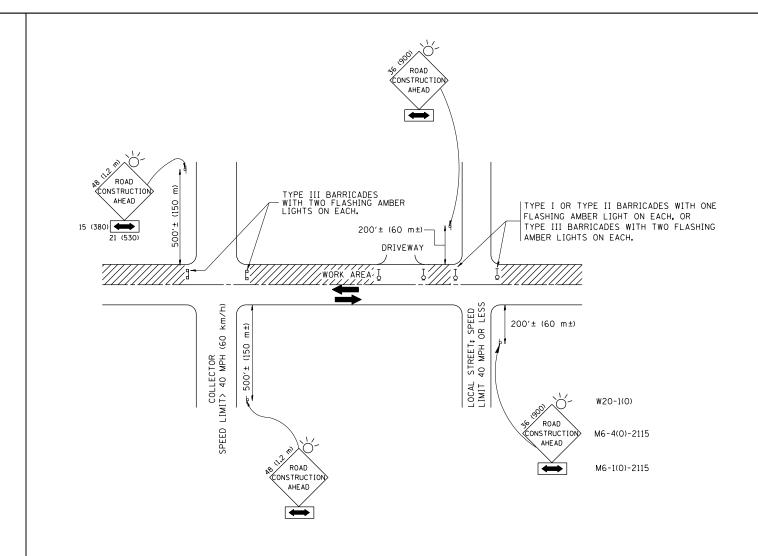
- 1. CLOSE EXISTING VALVE.
- 2. REMOVE EXISTING HYDRANT.
- 3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
- 4. RELOCATE EXISTING HYDRANT.
- 5. OPEN EXISTING VALVE, REMOVE BOX.
- 6. BACKFILL.
- 7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

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

		DESIGNED -	REVISED - R. SHAH 09-09-94			FIRE HYDRANT TO BE MOVED	RTE.	SECTION	COUNTY	SHEETS NO	را <u>:</u> را
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	PLOT DATE = 8/23/2012	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h)
 AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1,2 m x 1,2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (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).

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.

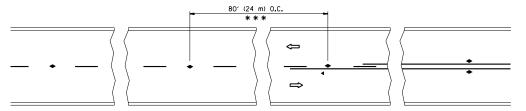
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = paraynoal	DESIGNED - LHA	REVISED	- J. OBERLE 10-18-95
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	- A. HOUSEH 10-15-96
	PLOT DATE = 8/23/2012	DATE - 06-89	REVISED	-T. RAMMACHER 01-06-00

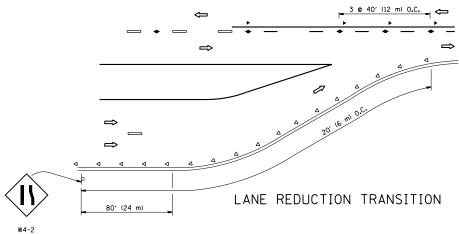
STATE	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

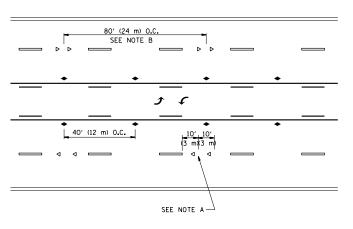
	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS							
	SIDE RUADS, INTERSECTIONS, AND UNIVERVATS							
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA.			TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS			



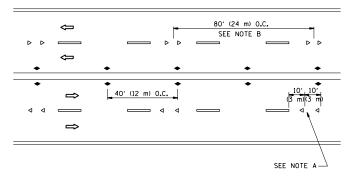
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

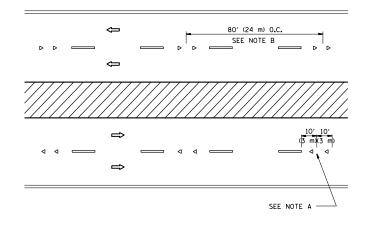




TWO-WAY LEFT TURN



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

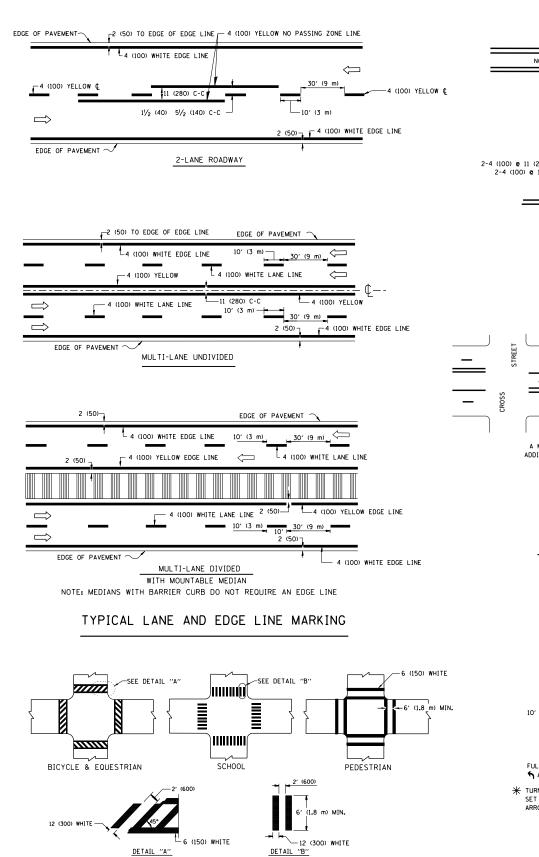
** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS

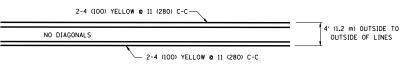
USE TWO-WAY MARKERS.

LEFT TURN

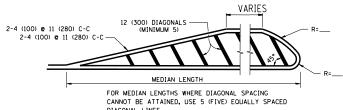
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - T. RAMMACHER 09-19-94			TYPICAL APPLICATION	NS	RTE.	SECTION	COUNTY	SHEETS	NO.
c:\pw_work\pwidot\paraynoal\d0273204\Pl4	2209-Design.dgn	DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS	DAIGED			1320	581-N-1	соок	50	39
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	KAISED	REFLECTIVE PAVEMENT MARKERS (SNUVV-PLUVV RESISTANT)		TC-11	CONTRAC	T NO. 60	DL 43
	PLOT DATE = 8/23/2012	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS ST	A. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS	FED. AID PROJECT		



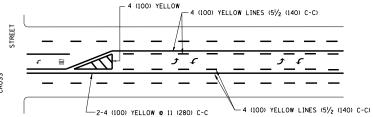


4' (1.2 m) WIDE MEDIANS ONLY

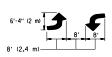


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

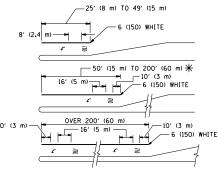


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

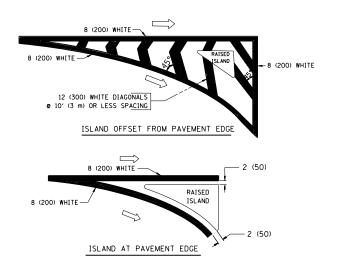


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) ONLY AREA = 20.8 SO. FT. (1.9 m²)

* 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	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 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	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 & EOUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"3-3.6 SQ. FT. (0.33 m ²) EACH "X"-54.0 SQ. FT. (5.0 m ²)
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) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

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

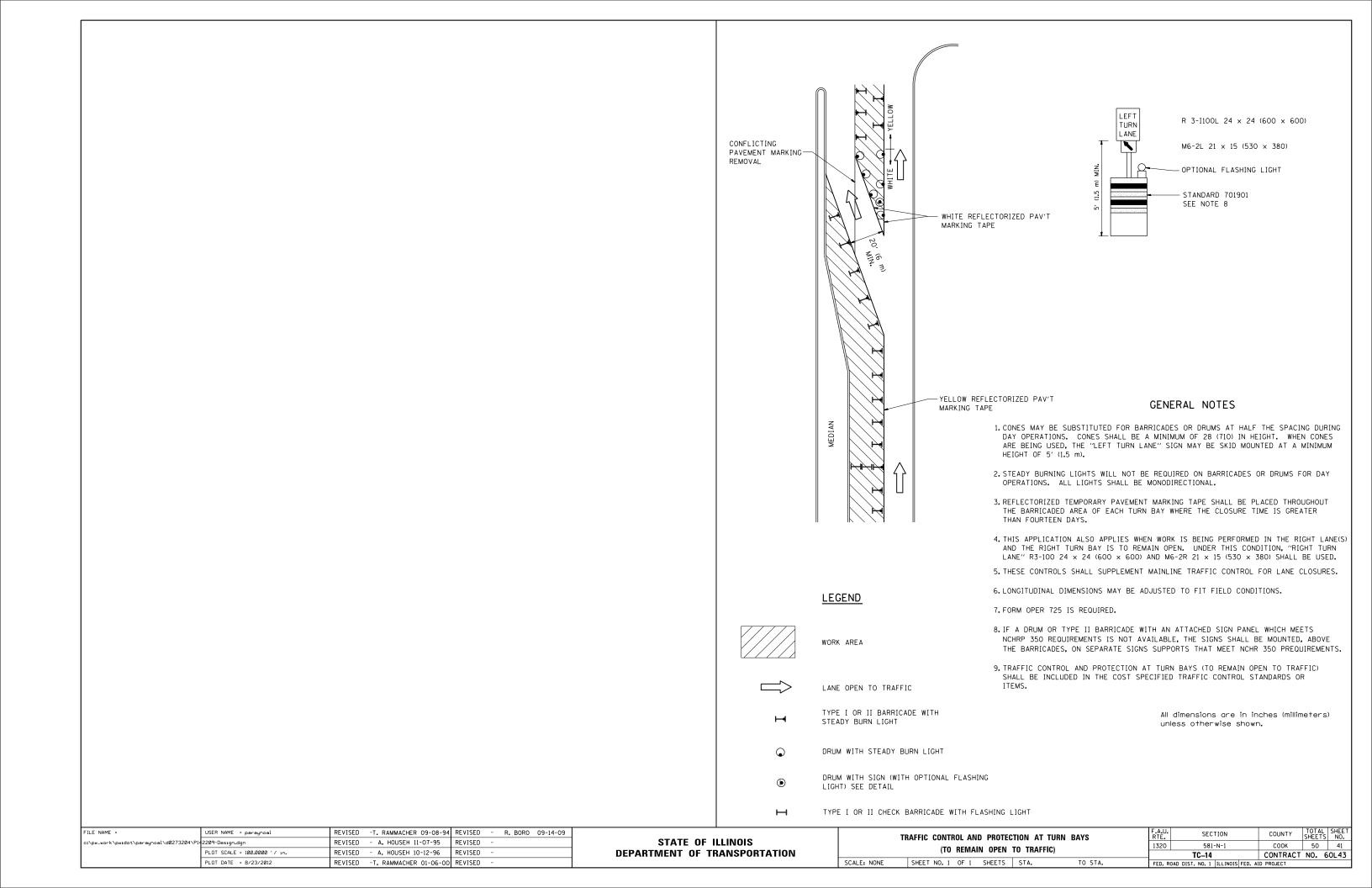
All dimensions are in inches (millimeters) unless otherwise shown.

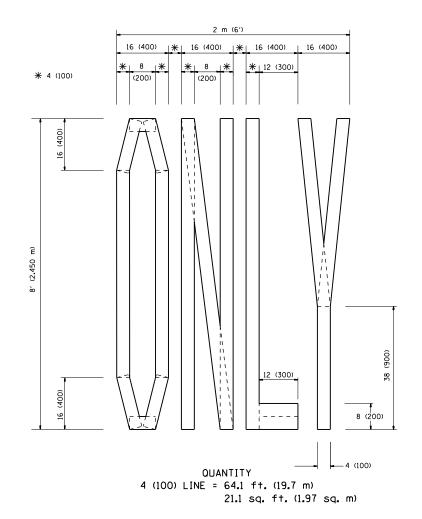
FILE NAME =	USER NAME = paraynoal	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94		
c:\pw_work\pwidot\paraynoal\d0273204\Pl	2209-Design.dgn	DRAWN -	REVISED	-C. JUCIUS	09-09-09
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	-	
	PLOT DATE = 8/23/2012	DATE - 03-19-90	REVISED	-	

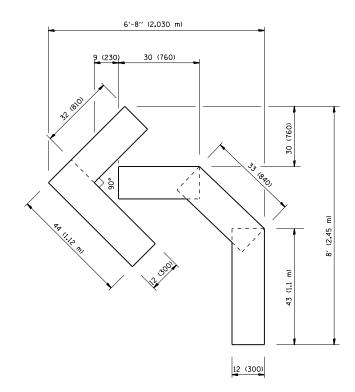
TYPICAL CROSSWALK MARKING

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

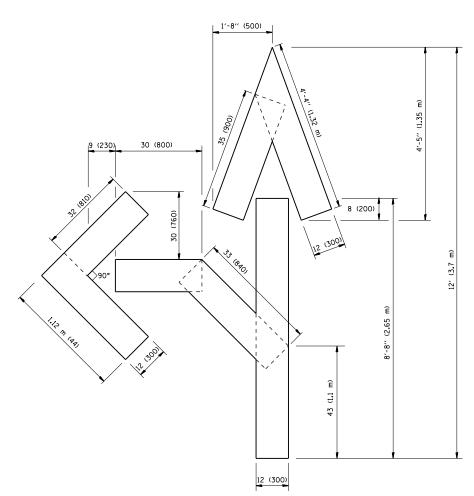
	U	DISTRICT OF	JE				F.A.U. RTE.	SEC1	TION	COUNTY	TOTAL SHEETS	SHEET NO.
	TVĐ329AL	DAVENJERPI-	MARKINGS	соок	47	37	1320	581-	N-1	COOK	50	40
	IIIIUAL	AVEIVILIVI	IMAIIKINGS			60L43		TC-13		CONTRACT	NO. 6	60L43
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.			FED. RO	DAD DIST. NO. 1	ILLINOIS FED. AI	D PROJECT		







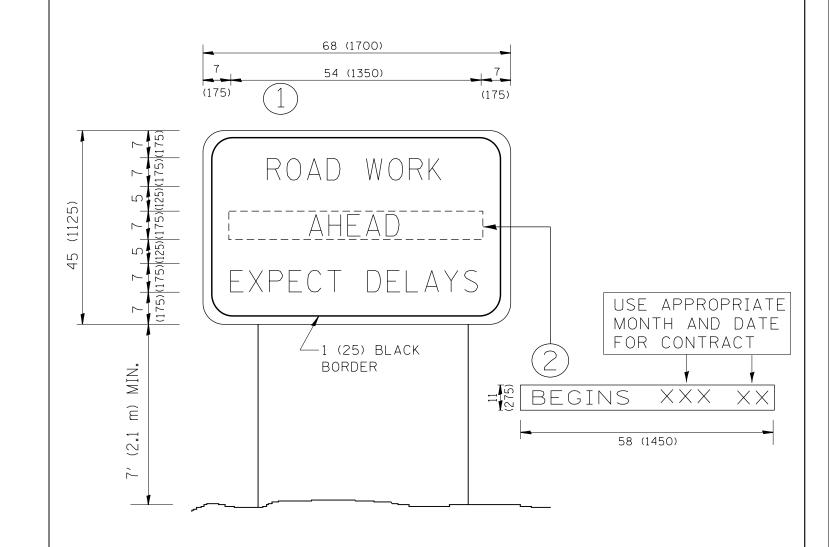
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

F	LE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -T. RAMMACHER 06-05-96			PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.U. RTF.	SECTION		TOTAL SHE	ET 5.
c	\pw_work\pwidot\paraynoal\d0273204\P14	2209-Design.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97			FOR TRAFFIC STAGING	1320	581-N-1		50 4	2
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION		FUR TRAFFIC STAGING		TC-16	CONTRACT N	NO. 60L4	13
		PLOT DATE = 8/23/2012	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. AI	PROJECT		\neg



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.

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

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.U. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\paraynoal\d0273204\F		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN	1320 581-N-1	COOK 50 43
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99			TC-22	CONTRACT NO. 60L43
	PLOT DATE = 8/23/2012	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT

LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER Ê (1.5 m) (1.8 m) (1.5 m) 1" (25 mm) UNI DUCT-TRENCHED TO E/P •• (3.0 m) (3.0 m) * = (600 mm)* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS. ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)

FILE NAME :

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) HANDHOLE LOCATION MAY HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD BLADOL TO ENESURE THAT WARRING! 814001 TO ENSURE THAT HANDHOLE TRENCHED 1" (25 mm) UNIT DUCT (3) * * * = (600 mm) STRAIGHT SAW CUTS PERPENDICULAR TO MEDIAN (TYP.) (3.6 m) (900 mm) ** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

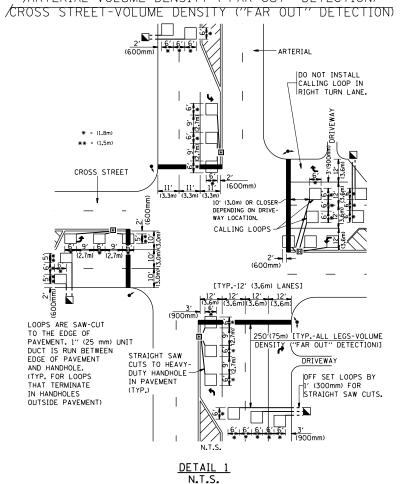
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

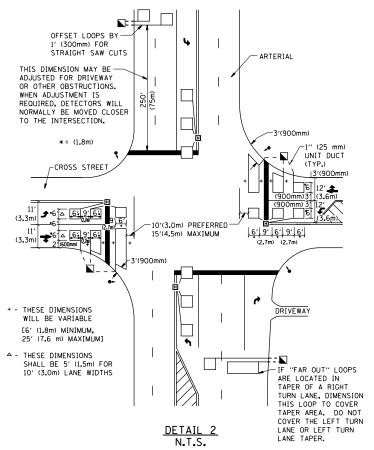
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) * = (600 mm) (900 m (1.8 m) (3.6 m |STRAIGHT SAW CUT TO HEAVY DUTY HANDHOLE (TYP.) PLACE HEAVY DUTY HANDHOLE BETWEEN FIRST AND SECOND LOOP AS SHOWN. NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)





SCALE: NONE

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED,
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
c:\pw_work\pwidot\paraynoal\d0273204\Pl	2209-Design.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 8/23/2012	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1320	581-N-1	COOK	50	44
		TS-07	CONTRACT	NO. 6	OL43
SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 JULINOIS FED. AID PROJECT				

