08-02-13 LETTING ITEM 075

FOR INDEX OF SHEETS, SEE SHEET 2

THIS PROJECT IS LOCATED IN THE VILLAGE OF PALATINE

DESIGN DESIGNATION:

US ROUTE 14 - OTHER PRINCIPAL ARTERIAL 2009 ADT: 28,900 (SMITH STREET TO PLUM GROVE ROAD) 2011 ADT: 30,600 (PLUM GROVE ROAD TO PALATINE ROAD) POSTED SPEED LIMIT: 30 - 35 MPH

100' 200' 309' -- 1" = 100' 10' 20' 30' -- 1" = 10' 50' 100' 1" = 50' 100' 1" = 40' 50' 100' -- 1" = 30' 50' 100' -- 1" = 20'

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 LOCATING INFORMATION FOR EXCAVATORS
1–800–892–0123
OR 811

CONTRACT NO. 60T90

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

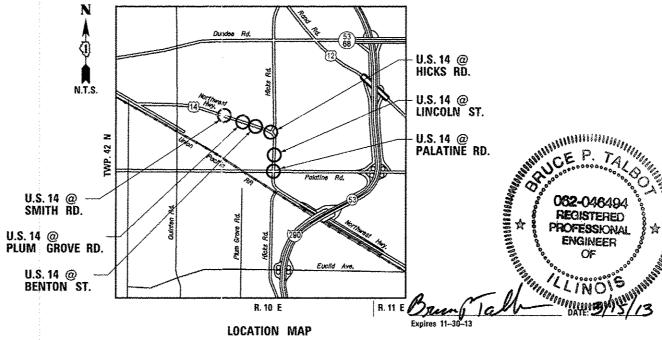
F.A.P. 305 / U.S. 14 DISTRICT 1

HIGHWAY SAFETY IMPROVEMENT PROJECT

U.S. 14 @ SMITH ROAD
U.S. 14 @ PLUM GROVE ROAD
U.S. 14 @ BENTON STREET
U.S. 14 @ HICKS ROAD
U.S. 14 @ LINCOLN STREET /HICKS PLACE
U.S. 14 @ PALATINE ROAD

COOK COUNTY SECTION 2012-042 TS C-91-496-12

PROJECT : HSIP - 0305 (047)





D-91-496-1



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED

March 22
20 13

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DEPUTY DIRECTOR OF DESIGN AND ENVIRONMENT

March 10 20 13

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

AFFIC, DISTRICT ONE: SUDUD MAHMOUD (847) 705-

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 - 33. MAST ARM MOUNTED STREET NAME SIGNS
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- 36. ARTERIAL ROAD INFORMATION SIGN (TC-22)

IDOT HIGHWAY STANDARDS:

STD. NO.

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND SYMBOLS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701005-04	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-03	OFF-ROAD OPERATIONS, MULTILANE, 15' (4,5m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-05	URBAN LANE CLOSURE, 2L, 2W, BIDIRECTIONAL LEFT TURN LANE
701601-08	URBAN LANE CLOSURE, MULTILANE, 1W, OR 2W WITH NONTRAVERSABLE MEDIAN
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001~01	UNINTERRUPTABLE POWER SUPPLY (UPS)
87700105	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-02	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
877006-04	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
878001-09	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
	man is desired meaning actioned

GENERAL NOTES:

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

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND 1001 UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND 1001 FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES.

THE CONTRACTOR IS REQUIRED TO ATTEND AN ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) PRECONSTRUCTION MEETING AND SHALL INFORM THE IDOT TRAFFIC ENGINEER BEFORE WORK COMMENCES.

THE CONTRACTOR SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS

THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING SAFE AND HEALTHFUL CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

CONTROLLER CABINETS SHALL BE PLACED SO THAT, a) THE DOORS OPEN AWAY FROM THE CURB OR TRAVEL WAY., b) AND THE TRAFFIC MOVEMENTS AT THE INTERSECTION ARE VISIBLE FROM THE CONTROLLER.

ANY CONTROLLER CABINET WHETHER NEW OR EXISTING TO RECEIVE UPS, WILL HAVE A "L" SHAPED 3 FOOT CONCRETE MAINTENANCE PAD INSTALLED. THE COST OF INSTALLATION OF CONCRETE PAD IS INCIDENTAL TO NEW CONTROLLER AND OR UPS INSTALLATIONS.

ALL EXISTING SIGNING SHALL BE MAINTAINED PER ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS AND TRANSFERRED TO THE NEW TRAFFIC SIGNALS WHERE APPLICABLE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

TO STA.

ANY WASTE GENERATED AS A SPECIAL WASTE OR A WASTE NOT CERTIFIED AS A NON-SPECIAL WASTE FROM THIS PROJECT SHOULD BE MANIFESTED OFF-SITE USING THE GENERATOR NUMBER ASSOCIATED WITH COOK COUNTY. THE GENERATOR NUMBER FOR COOK COUNTY IS 0318995023, ANY REMEDIAL WORK MUST BE DOCUMENTED FOR POTENTIAL ILLEGAL TRESPASS INFORMATION.



PREPARED BY:

CEMCON, Ltd.

Consulting Englasers, Lond Surveyors & Pionnera
2250 White Gat Circle. Suite 100

Aurora, Illante 80504-9675

Ph: 630.862.2100 Fax: 630.862.2199

C-Wait: coddocarcon.com wabaits: www.cemcon.com

4-10-13/8PT 5-10-13/8PT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
U.S. ROUTE 14 (NORTHWEST HWY./HICKS ROAD)

SHEET NO. OF SHEETS STA.

SCALE: 1"=20"

| COUNTY | TOTAL SHEET | NO. | 100 | NO. |

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4.1	

SPARTING SPARTING					/ OTPOL(OI)	US 14 AT	90% FEDERAL, 6.7% STATE, 3.3% PALATINE US 14 AT PLUM	90% FEDERAL, 5% STATE, 5% PALATINE US 14 AT	90% FEDERAL, 10% STATE US 14 AT	90% FEDERAL, 5% STATE, 5% PALATINE US 14 AT	90% FEDERAL, 10% STATE US 14 AT		
NOTAL COUNTY CO	***		:	1	OF PALATINE	SMITH	GROVE	BENTON	HICKS	HICKS/ LINCOLN	N PALATINE		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
U.S. ROUTE 14 (NORTHWEST HWY./HICKS ROAD)

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

' MS30L(01)

/MS30L(03) /MS30L(01)

/ MS30L(02)

/ MS30L(01)

CEMCON, Led.

Consulting Engineers. Lend Surveyors & Pienners
2280 While Oak Circle. Suits 100
Aurors, 1111nois 80054-9675
Ph. 630.862.2100 Fox: 630.862.2199
E-Well: caddecenson.com Wabsits www.cemcon.com
F.A.U. SECTION COUNTY TOTAL SHEETS
NO.
305 2012-042 TS COOK 36 3
CONTRACT NO. 60T90

FED. ROAD DIST. NO. | ILLINOIS|FED. AID PROJECT

MS30L(03)

					90% FEDERAL, 5% STATE, 5% PALATINE	90% FEDERAL, 6.7% STATE, 3.3% PALATINE	90% FEDERAL, 5% STATE, 5% PALATINE	90% FEDERAL, 10% STATE	90% FEDERAL, 5% STATE, 5% PALATINE	90% FEDER 10% STAT	
,		·	100% VILLAC OF PALATIN		US 14 AT SMITH	US 14 AT PLUM GROVE	US 14 AT BENTON		US 14 AT HICKS/LINCOLN	US 14 A	
		es environ		EVP		TRAFFIC		SIGNAL			
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	0021	0021						
			<u> </u>	URBAN		1	URBA	N		1	
		4 6111	<u> </u>								
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1		0.16 \$	0.165	0.165	0.17	0.165	0.17	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		0, 16 5	0.165	0.165	0.17	0.165	0.17	
72000100	SIGN PANEL, TYPE 1	SQ FT	- 60			15	30	7, 5	7.5		
				-							
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	54	1700 TO THE TOTAL THE TOTAL TO THE TOTAL TOT	13.5	24	16. 5			······································	
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	54		13.5	24	16.5				
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	44				44				
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	961			314		367	280		
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1032				492			540	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	169				50		119		
78300100	PAVEMENT MARKING REMOVAL	SO FT	1595.5			157	337	183.5	378	540	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	63		15		26		22		
*************************************		er i	-				······································				
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	45		27		18				
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	163		70	66	27				
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6		1	1	1	1	1	1	

FILE NAME + USER NAME = JGC DESIGNED - KK REVISED - ORAWN - ROS/JGC RE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
U.S. ROUTE 14 (NORTHWEST HWY./HICKS ROAD)

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

90% FEDERAL, 90% FEDERAL, 90% FEDERAL,

90% FEDERAL.

CEMCON, Led.

Consulting Engineers. Land Surveyors & Pianners
2280 White Oak Circle. Suite 100
Agrees. 111lacts 68504-9678
Ph 630.862.2100 Fast 630.862.2199
E-Wall codeboarcon.com Wabailes www.cemcon.com
F.A.U. SECTION COUNTY STREETS NO.
305 2012-042 TS COOK 36 4
CONTRACT NO. 60T90

FED. ROAD DIST. ND. | ILLINOIS| FED. AID PROJECT

					 	6.7% STATE, 3.3% PALATINE	90% FEDERAL, 5% STATE, 5% PALATINE	90% FEDERAL 10% STATE	5% PALATINE	90% FEDERAL. 10% STATE
pu		······································		100% VILLAGE OF PALATINE	US 14 AT SMITH .	US 14 AT PLUM GROVE	US 14 AT BENTON		US 14 AT HICKS/LINCOLN	US 14 AT PALATINE
2005		-		EVP	<u> </u>	: 	TRAFFIC	SIGNAL	·	
CODE NUMBER	ITEM	UNIT	TOTAL	0021			002	1		
				URBAN			URBA	N		
<u> </u>					AVERAGE AND A SECOND A SECOND AND A SECOND A SECOND AND A SECOND A SECOND AND A SECOND A SECON	-				
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2			1		1	1	
87301215	ELECTRIC CARLE IN CONDUIT STONAL NO. 14 20	FOOT	2951		766	362	947	327		549
81301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	1001	2951		100	302	. 241	321		543
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2968		1118	672	1178			

87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2639	and the state of t	978	740	921			-
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3779		1812	885	409		673	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	474	Annual Annua	287	. 95	92			
				VA.						
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2	Total de la constitución de la c	4		1			
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1	To Control of the Con			1			
TABLE 1					200					
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1	4 de la constante de la consta	4	1				
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2	de et		2			47	
77700100	OTECE MAST MAN ASSEMBLY AND VOLEY 24 1 1.		-	4		4			And the second s	
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2		-	T	1		7	
				** *** *** *** *** *** *** *** *** ***			··		***	
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1	The state of the s					**************************************	
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1			:	1		Transaction in the state of the	
				ned y de anticipat de la constantina del constantina del constantina del constantina de la constantina del constantina	***				ф	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		8		8			
					Anna 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				analysis of the state of the st	,
¥ SPECIALT	Y ITEMS									

来 SPECIALTY ITEMS

FILE NAME • USER NAME • JGC DESIGNED - KK REVISED
\MICROST\352183\ 85-SUMMARY.DGN

PLOT SCALE > N.T.S.

PLOT DATE • 83-87-13

DATE - 03-07-13

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
U.S. ROUTE 14 (NORTHWEST HWY./HICKS ROAD)

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

CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2200 White Cet Circles 250 500
Phir 630, 682 2100 Fox: \$30, 682 2199
E-Wall: coddOcemcon.com Website: www.cemcon.com
U. SECTION COUNTY TOTAL SHEETS NO.

CODE				100% VILLAGE	US 14 AT	3.3% PALATINE US 14 AT PLUM	5% PALATINE US 14 AT	10% STATE	5% PALATINE US 14 AT	10% STATE US 14 AT
CODE				OF PALATINE	SMITH	GROVE	BENTON		HICKS/LINCOLN	
CODE			TOTAL	EVP	ļ	·	TRAFFICS	SIGNAL	······································	
NUMBER	ITEM	UN	TOTAL TOTAL TOTAL	0021		· · · · · · · · · · · · · · · · · · ·	0021	<u> </u>	······	
						2	····	1		
				THE STATE OF THE S					-	
87800400 0	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	F0)T 31	The second secon		20	11			
				ransvaranse s		1			-	
87800415 C	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	F0)T 35	авили	11	11	13			
				1			······································			
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FO)T 21	200	21					
87900200 D	DRILL EXISTING HANDHOLE	EA	H 12		4	3	5			
		***************************************							-	
88030020 S	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EA	H 19	and a positive and	4	4	8		3	
				AND					- Anna Carlos Anna	
88030050 S	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EA	H 3	The state of the s		1	2		enaturo menaturo del constanto	
				50-ye 1150-hai mehin.					4	
88030070 S	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EAG	H 2	news and a second		And the second s	· · · · · · · · · · · · · · · · · · ·		2	
88030080 S	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EAG	:H 1						1	
			and the same of th							
88030100 S	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EAG	H 5		2	5	2		1	
	:									
88030110 S	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EAG	H 15		8	4	2		1	
			-				······································			
88030210 S	SIGNAL HEAD, LED, 2-FACE, 3 SECTION, BRACKET MOUNTED	EAG	H 2			1	 		1	
		47.00								
88030220 S	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EAG	H 2		1	1	"	-		
		Vermont					· · · · · · · · · · · · · · · · · · ·			
88030230 S	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTI	TEO EAC	·H 1	- 			· · · · · · · · · · · · · · · · · · ·		1	
			-	1		-				
88055160 0	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST AR	RM MOUNTED EAG	Н 3			Available	· · · · · · · · · · · · · · · · · · ·		7	-
3333100 0	T. T. C. C. T. T. C.	in moderate EA					-		3	
★ SPECIALTY :	ITEMS	<u></u>		<u> </u>	<u> </u>	<u>.</u>	<u> </u>	1	Consultin	CEMCON, Led.

FILE NAME : USER NAME : JGC DESIGNED - KK REVISED
MICROST\352183\ 86-SUMMARY.DCN

PLOT SCRLC = NLT.5, CHECKED - BPT REVISED
PLOT DATE : 83-87-13 DATE - 03-07-13 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
U.S. ROUTE 14 (NORTHWEST HWY./HICKS ROAD)

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

TO STA.

CEMCON, Ltd.

Consulting Engineers. Land Surveyors & Planners
2250 White Ook Circle. Suits 100
Aurors. Illinois 80504-9575
Ph. 630.862.2100 Fax: 630.862.2199
E-Well: coddboamcon.com Wabsits: www.comcon.com
F.A.U. SECTION COUNTY STALL SHEETS
NO.
305 2012-042 TS COOK 36 6

CONTRACT NO. 60T90

FEO. ROAD DIST. NO. | ILLINGIS FED. AID PROJECT

				· · · · · · · · · · · · · · · · · · ·	 	6.7% STATE, 3.3% PALATINE	5% PALATINE	90% FEDERAL, 10% STATE	5% PALATINE	90% FEDERA 10% STATE
······································		· ····························· ······		100% VILLAGE OF PALATINE	US 14 AT SMITH	US 14 AT PLUM GROVE	US 14 AT BENTON	-	US 14 AT HICKS/LINCOLN	US 14 AT PALATINE
CODE		***************************************	TOTAL	EVP			TRAFFIC S	IGNAL		
NUMBER	ITEM	UNIT	QUANTITY	0021		······································	0021			
88055165	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1						1	
88060110	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	e de la constitución de la const						1	TOTAL
0040004						·				
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	25		6	2	8	3	6	
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3		14	1		4	Property of the Control of the Contr	
88102757	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1					1		
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	36		10	8	10		8	
88500100	INDUCTIVE LOOP DETECTOR	EACH	17					7	10	
88800100	PEDESTRIAN PUSH BUTTON	EACH	41		8	. 4	8	7	6	8
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4	4		:				
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2	2			·			
89502200	MODIFY EXISTING CONTROLLER	EACH	2		1	: 1				
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	4		1	1	1			1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8781		3445	2468	2487		381	The state of the s
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6		1	. 1	1	i	1	**************************************

| FILE NAME | USER NAME | USER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
U.S. ROUTE 14 (NORTHWEST HWY./HICKS ROAD)

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

(3)

90% FEDERAL,

(3)

(1)

90% FEDERAL, 90% FEDERAL, 90% FEDERAL.

Consulting Engineers. Land Surveyore & Plannere 2280 White Oet Circle, Surveyore & Plannere Phi: 630.862.2100 Fox: 630.862.2199 Fe-160.862.2100 Fox: 630.862.2199 Fe-160.862.2199 Fe-160.862.219

					•	6.7% STATE, 3.3% PALATINE	90% FEDERAL, 5% STATE, 5% PALATINE	90% FEDERAL, 10% STATE	5% PALATINE	90% FEDERAL. 10% STATE
<u></u>				100% VILLAGE OF PALATINE	US 14 AT SMITH	US 14 AT PLUM GROVE	US 14 AT BENTON		US 14 AT HICKS/LINCOLN	US 14 AT PALATINE
				EVP			TRAFFIC S	SIGNAL	······································	
CODE NUMBER	ITEM	TINU	TOTAL	0021			002			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		3	4	2	The second secon		
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	770	770						
X0326863	BRICK SIDEWALK	SQ FT	110					88	22	V-1
X0326864	BRICK SIDEWALK REMOVAL	SQ FT	213					168	45	
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2					1	1	
X8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	2				1	44 statement of the sta	1	
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	3		1	1		1		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4		25. 7					25.7
			A CONTRACTOR OF THE CONTRACTOR			The second secon				
8770249E	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 58FT.	EACH	1		1.0	As a manufacture of the second				
* 66900200 NON-SPECIAL WASTE DISPOSAL		CU YD L SUM	35		15	10	10			
	* 66900450 SPECIAL WASTE PLANS AND REPORTS * 66900530 SOIL DISPOSAL ANALYSIS				0.33	0.33	0.34			
0 2007660	OU TRAINEES OU TRAINEES OU TRAINEES-TRAINING PROGRAM GRADUATE	EACH HOUR HOUR	3 500 500	500 500		,	,			

SPECIALTY ITEMS

CEMCON, Ltd.
Consulting Engineers. Land Surveyors & Planners
2280 White Oak Cirole. Suite 100
Aurora. Jillanis 60504-9675
Ph. 630.682.2109 Fax: 630.682.2199
E-Wall: adddmamacon.com Wabsile: www.cemcon.com

FILE NAME *	USER NAME = JGC	DESIGNED	-	KK.	REVISED -
\MICROST\352183\ 83-SUMMARY.DGN		DRAWN	-	RDS/JGC	REVISED -
	PLOT SCALE = N.T.S.	CHECKED	-	BPT	REVISED -
	PLOT DATE • 03-07-13	DATE		03-07-13	REVISED -

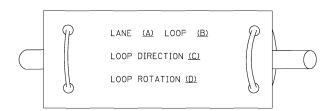
	U.S. ROUTE		RY OF QUA RTHWEST H		ROAD)
SCALE: 1"=20'	SHEET NO.	OF	SHEETS	STA.	TO STA.

V	E-Wall: cadd@demcon.c	om Wabaites	WWW.DOMO	00.008
RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
305	2012-042 TS	COOK	36	8
		CONTRACT	r No. 6	0T90
FED. ROAD	DIST. NO. ILLINOIS FED.	UD PROJECT		

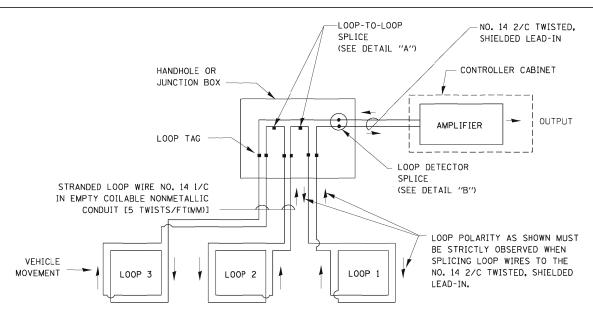
LOOP DETECTOR NOTES

- 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

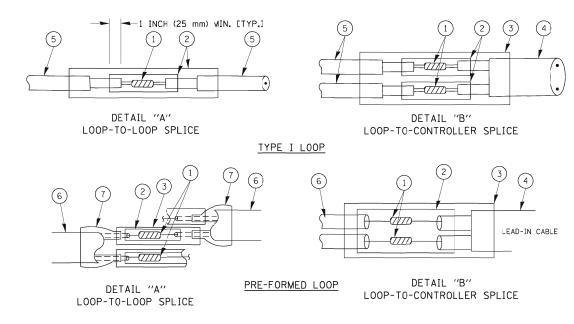


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

- $\ \ \,$ Western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP

STALF:

7 XL POLYOLEFIN 2 CONDUCTOR
BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

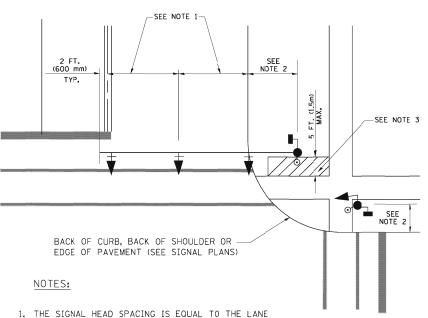
FILE NAME =	USER NAME = kanthaphixaybc	DESIGNED -	DAD	REVISED -	
c:\pw_work\PWIDOT\KANTHAPHIXAYBC\dØ1l26	4\traffic_legend_v7.dgn	DRAWN -	BCK	REVISED -	
	PLOT SCALE = 20.00000 '/ IN.	CHECKED -	DAD	REVISED -	
	PLOT DATE = 10/6/2009	DATE -	10/28/09	REVISED -	

STATI	E OF	ILLINOIS	
DEPARTMENT	0F	TRANSPO	RTATION

DISTRICT	ONF		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TANDARD TRAFFIC SIGN	AI DES	IGN DETAILS	305	2012-042 TS	соок	36	9
TANDAND INALLIC SIGN	AL DL3	IGN DETAILS			CONTRACT	NO. 6	OT90
SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	FED. ROAL	D DIST. NO. ILLINOIS FED. AI	ID PROJECT		

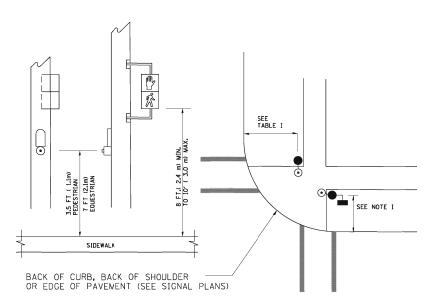
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



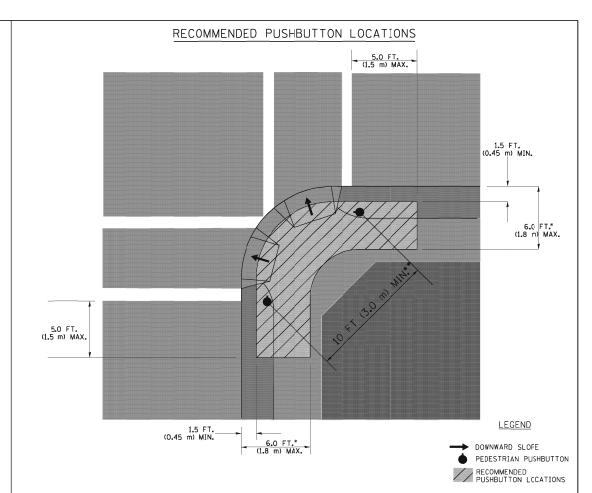
- THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST 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:

- I. 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 HOJSING 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

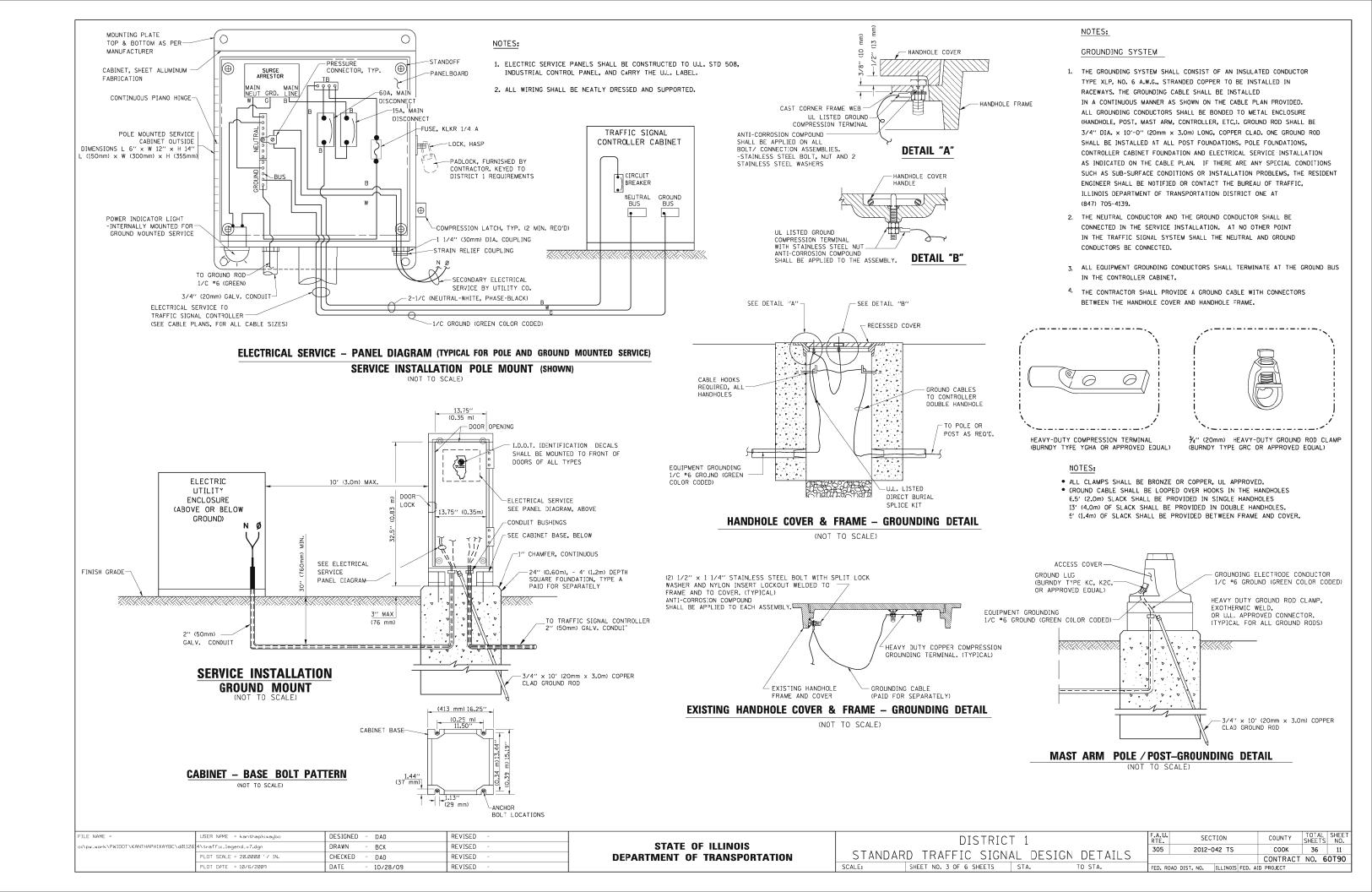
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)			
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM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

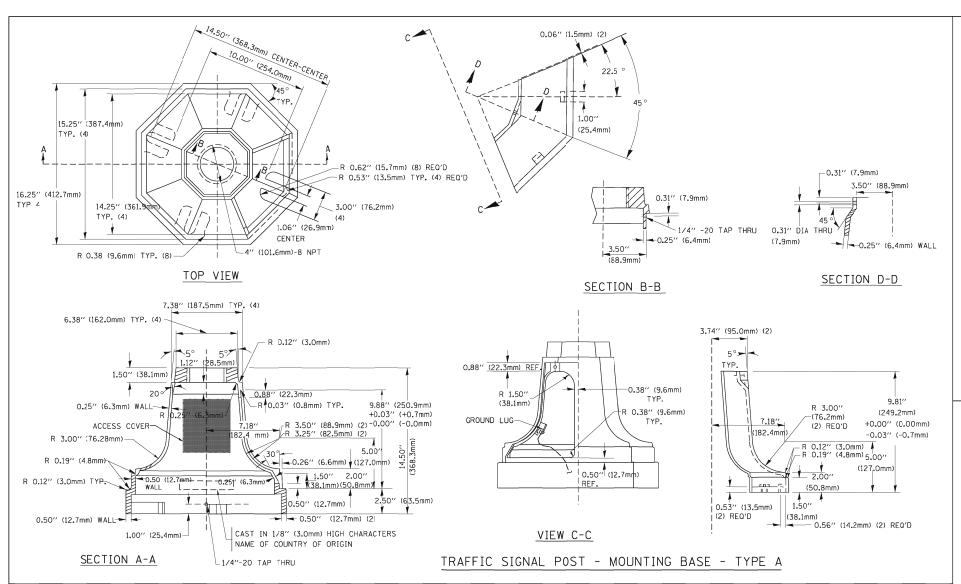
NOTES:

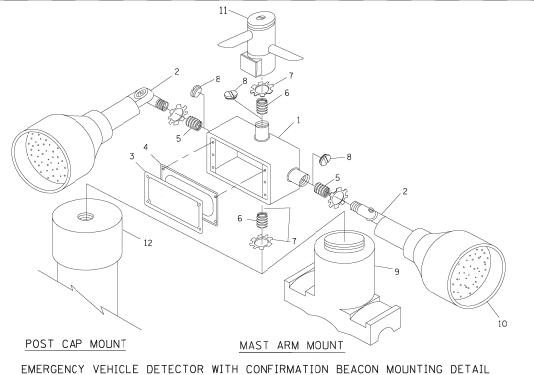
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 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.

	DIS	TRICT	1		F.A.U. RTE.		SECT	ION	
STANDARD) TRAFFIC	SIGNA	L DESIGN	DETAILS	305	2	012-04	2 TS	_
CALE:	SHEET NO. 2 OF 6	SHEETS	STA.	TO STA.	FED. ROAD	DIST. N	۱0. I	LLINOIS	F

RTE.		SEC	TION			COUNTY	SHEETS	
305		2012-0	042 TS		T	соок	36	10
						CONTRACT	NO.	60T90
FED. RO	AD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		



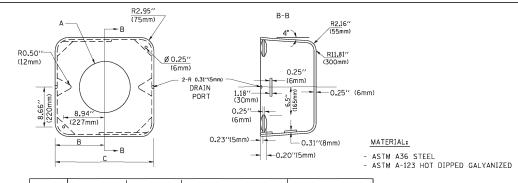




ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4''(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

NOTES:

- 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
- 5. 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 ¾"(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.

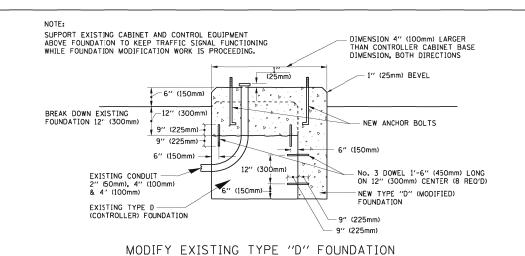


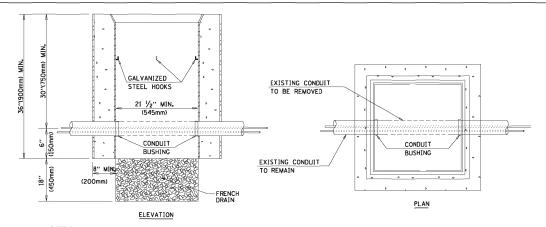
Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

NOTES:

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





NOTES:

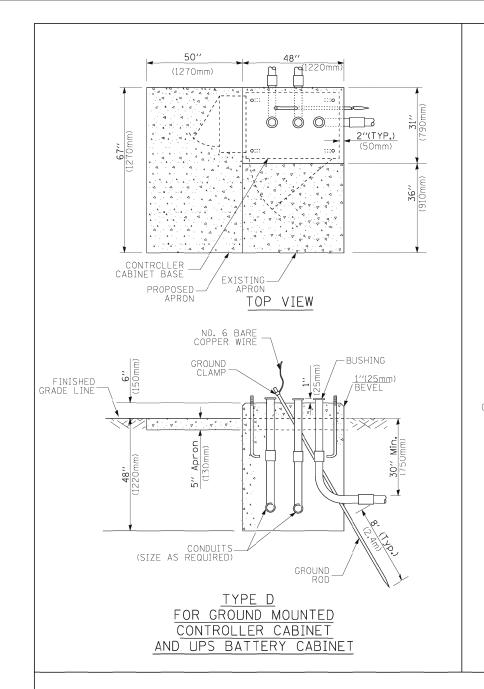
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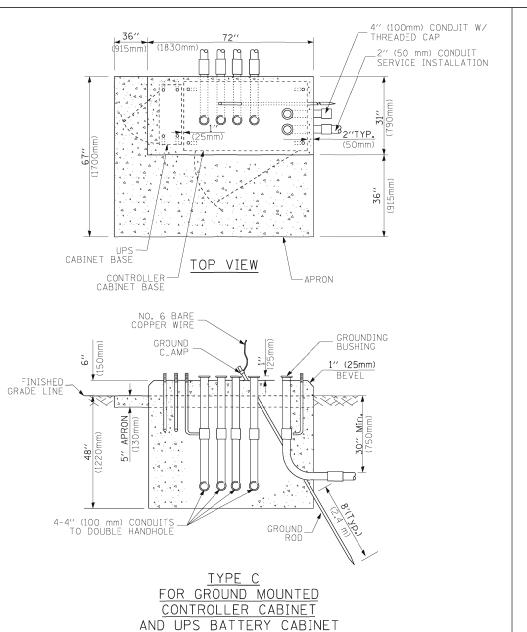
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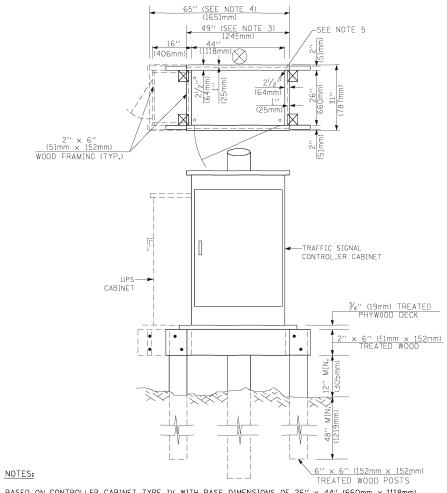
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

DISTRICT	1		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ANDARD TRAFFIC SIGNA		IGN DETAILS	305	2012-042 TS	соок	36	12
ANDARD TRAFFIC SIGNA	4F DE21	IGN DETAILS			CONTRACT	NO. 6	OT90
SHEET NO. 4 OF 6 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT		







- 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

TYPE D - CONTROLLER	4'-0"	(1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0''	(1.2m)

FOUNDATION

TYPE A - Signal Post TYPE C - CONTROLLER W/ UPS

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50′ (15.2 m) and up to 55′ (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65′ (19.8 m) and up to 75′ (22.9 m)	25'-0'' (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

DEPTH 4'-0" (1.2m)

4'-0" (1.2m)

- 1. These foundation depths are for sites which have cohesive soils (clayey slit, 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 compressive 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 nm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations,
- 4. For most arm assemblies with dual arms refer to state standard 878001.

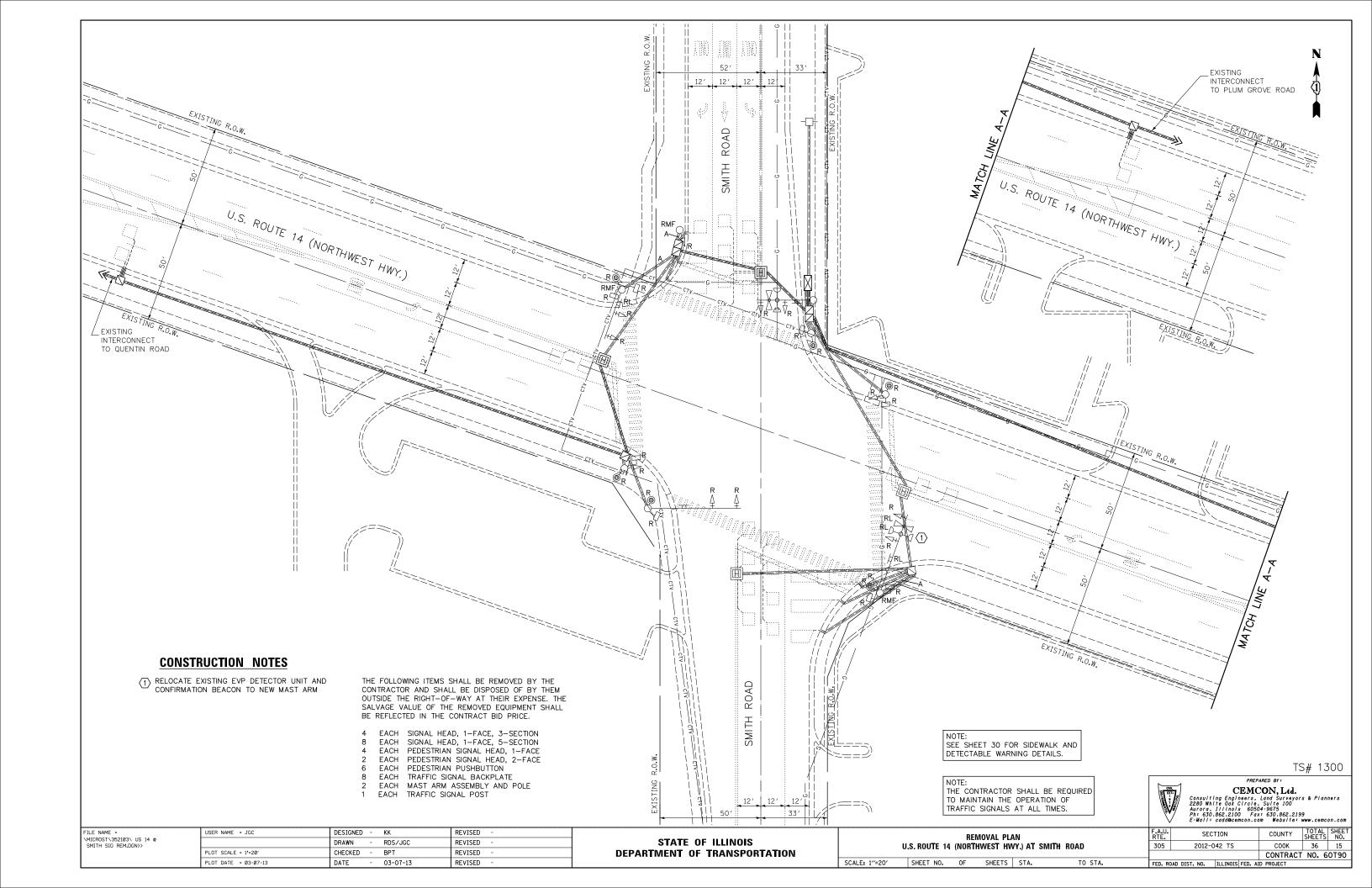
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

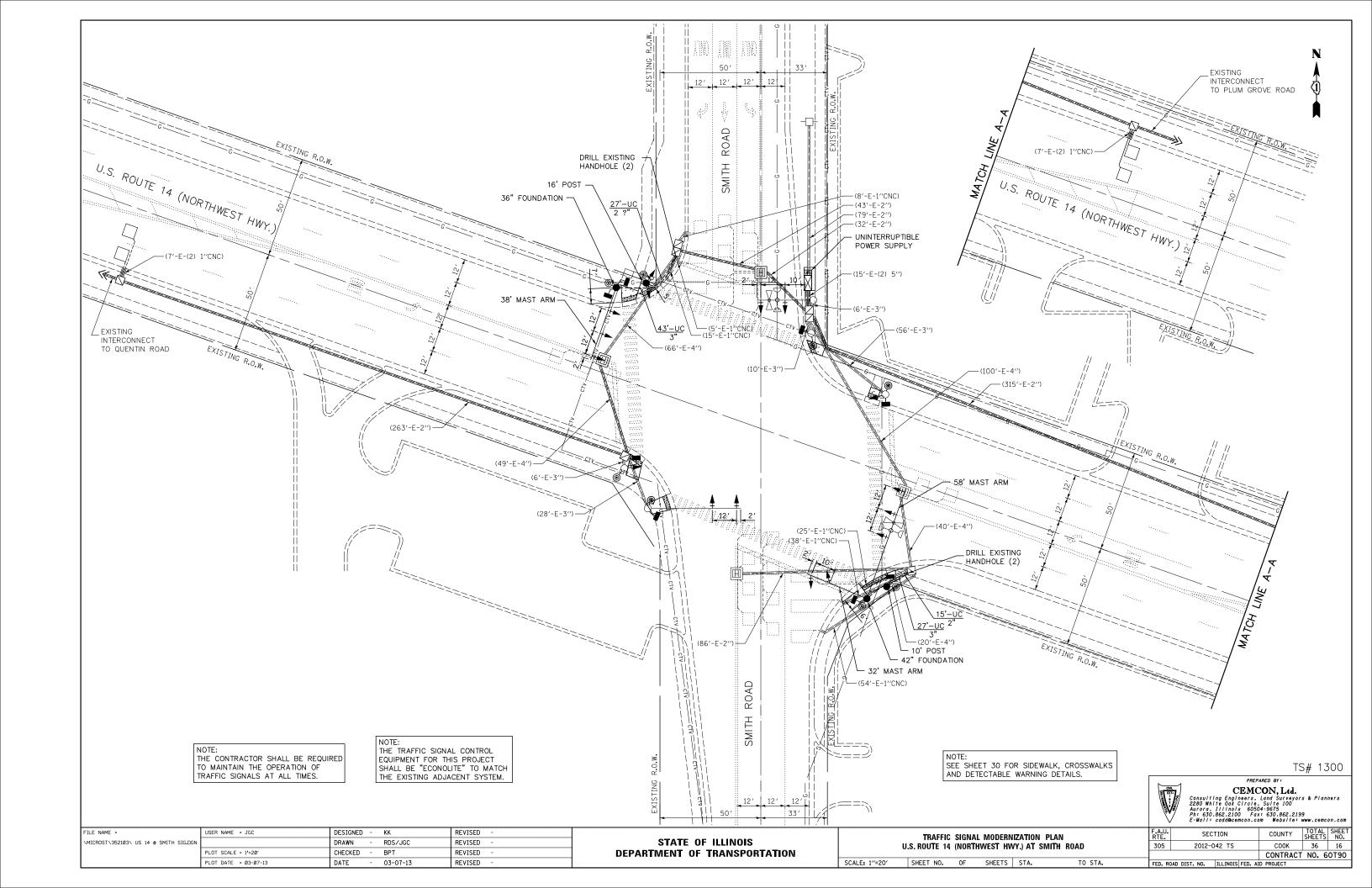
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	PLOT SCALE = 20.00000 '/ IN.	CHECKED - DA)	REVISED -
	PLDT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

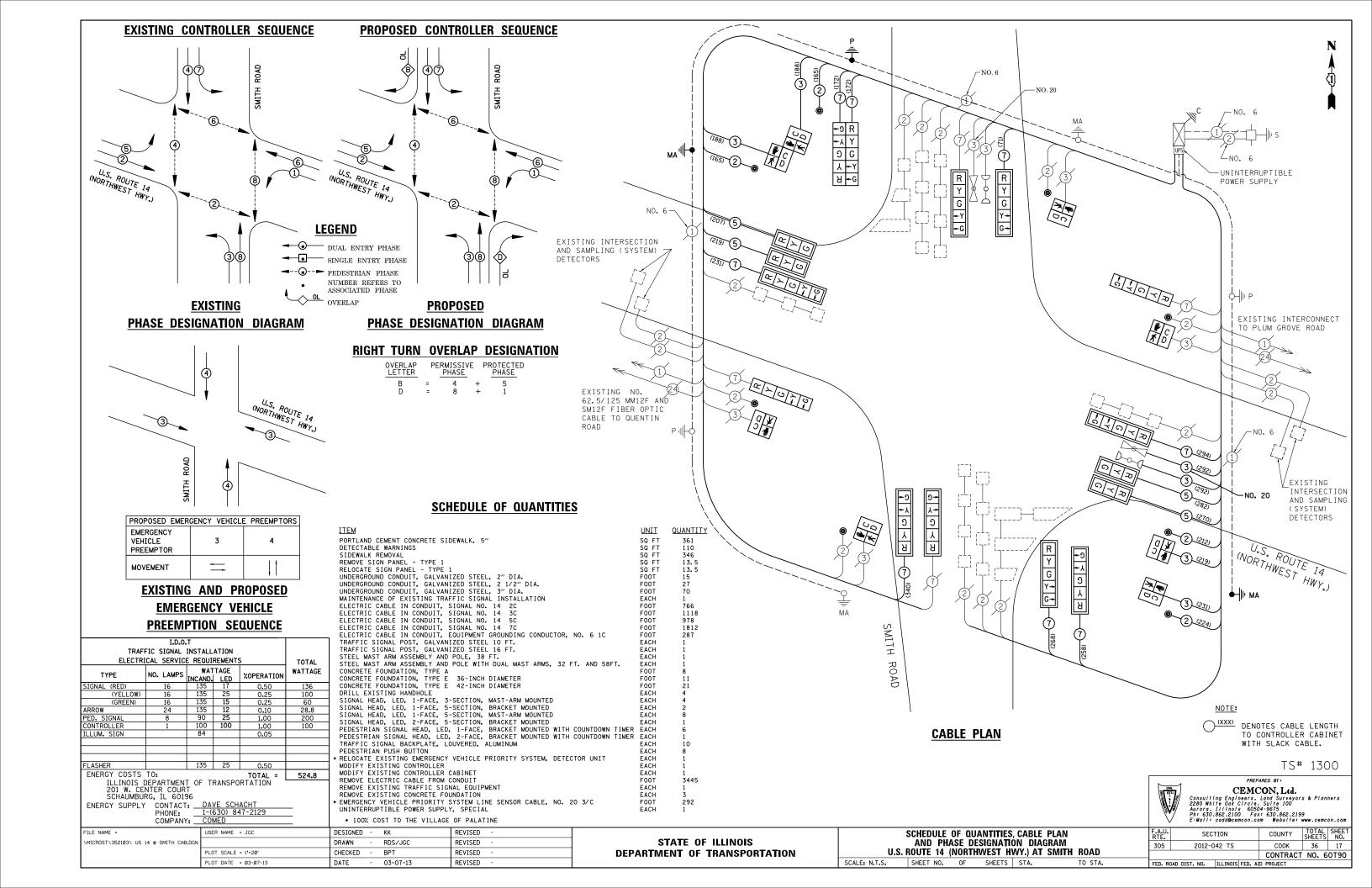
1					F.A.U.			TOTAL	SHEET
ı		DISTRICT	1		RTE.	SECTION	COUNTY	SHEETS	NO.
ı	STANDAR	RD TRAFFIC SIGN	AL DESIG	N DETAILS	305	2012-042 TS	соок	36	13
I	STANDAN	D INALLIC SIGN	AL DESIG	N DETAILS	_		CONTRACT	NO. 6	OT90
ı	SCALE:	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.	FED. RO	OAD DIST, NO. ILLINOIS FED.	AID PROJECT		

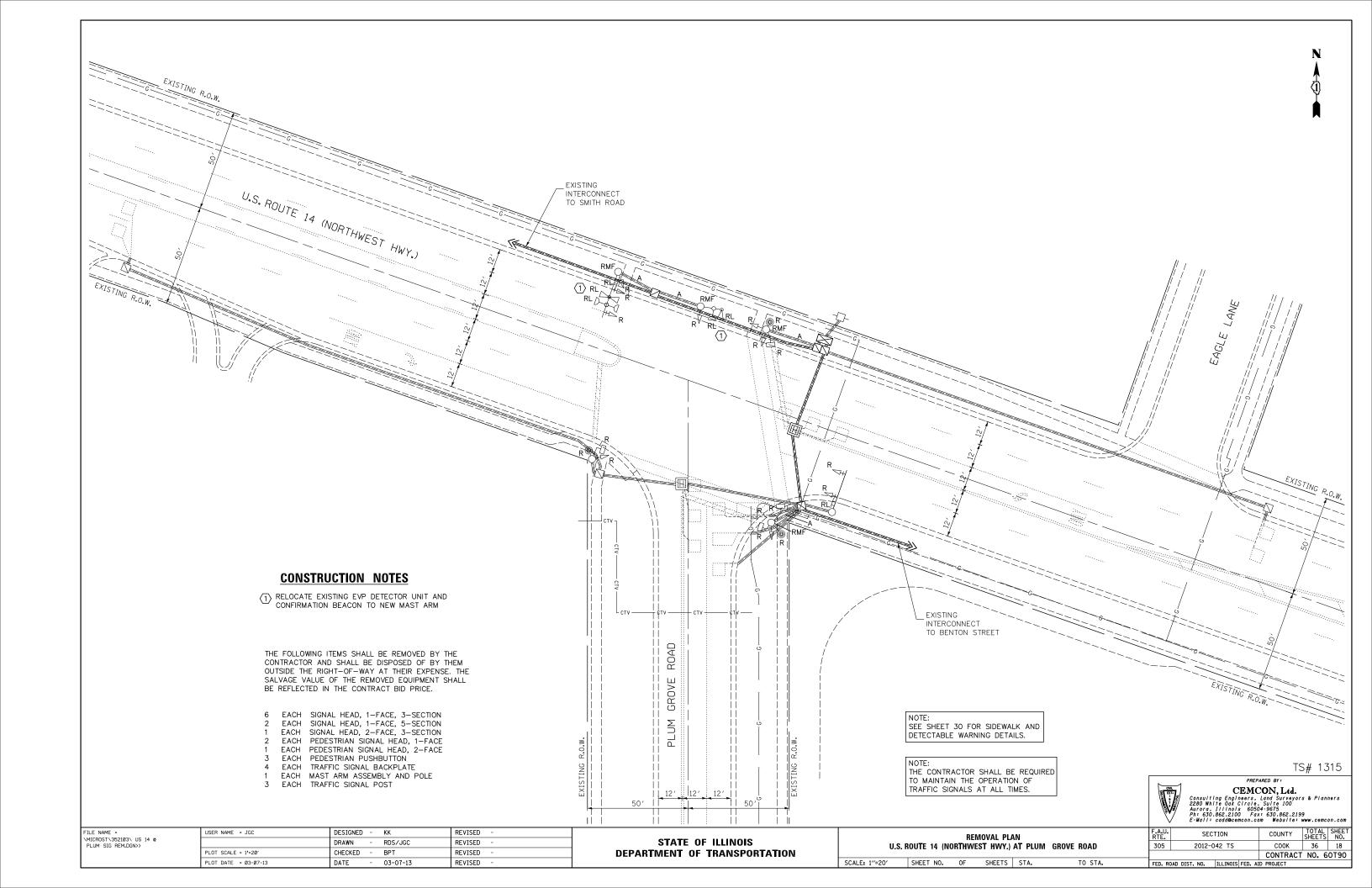
TRAFFIC SIGNAL LEGEND

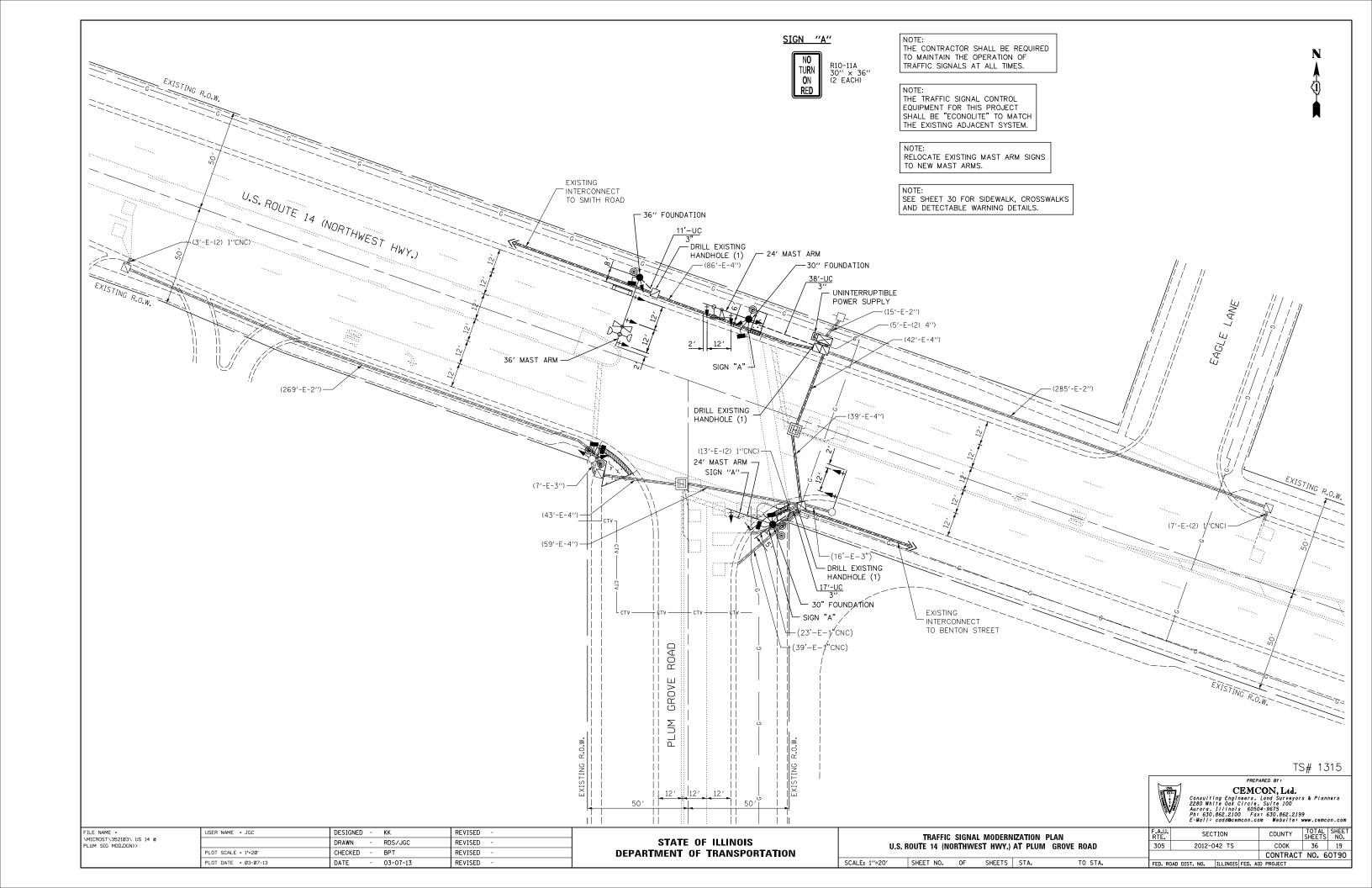
T <u>EM</u>	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PRCPOSED
ONTROLLER CABINET	R	\bowtie		EMERGENCY VEHICLE LIGHT DETECTOR	R	\bowtie	◄	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
ILROAD CONTROL CABINET		R P		CONFIRMATION BEACON	R_{o-0}	0-()	⊷(-/	
MMUNICATIONS CABINET	C C R	E C C	CC	HANDHOLE	R			COAXIAL CABLE		— <u>C</u> —	—©—
STER CONTROLLER		EMC	MC	, , , , , , , , , , , , , , , , , , ,	D			VENIDOD CADLE FOR CAMERA			
STER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	H	Н	H	VENDOR CABLE FOR CAMERA			
INTERRUPTIBLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	"N R 🔘			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		_6	<u>—6</u> —
RVICE INSTALLATION, POLE OR (G) GROUND MOUNT	R	-P	<u> </u>	JUNCTION BOX GALVANIZED STEEL CONDUIT		<u> </u>	0	FIBER OPTIC CABLE NO. 62.5/125, MM12F		—(12F)—	
LEPHONE CONNECTION POLE OR (G) GROUND WOUNT	R	P	P	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		—24F)—	—(24F)—
EEL MAST ARM ASSEMBLY AND POLE	R	O	•	AND CABLE						,	
UMINUM MAST ARM ASSEMBLY AND POLE	R			COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		-	
EEL COMBINATION MAST ARM SEMBLY AND POLE WITH LUMINAIRE	R ○–¤———	O-¤	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS) GROUND ROD AT (C) CONTROLLER.			
EEL COMBINATION MAST ARM	R	0		SYSTEM ITEM		S	S	(H) HANDHOLE, (P) POST, (M) MAST ARM,		C	^C ├ -
SEMBLY AND POLE WITH PTZ CAMERA	PTZ1	PTZ	PTZ	INTERSECTION ITEM		I	IP	OR (S) SERVICE	DOE		
GNAL POST	R _O	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
MPORARY WOOD POLE (CLASS 5 OR TTER) 45 FOOT (13.7m) MINIMUM	^R ⊗	\otimes	•	RELOCATE ITEM ABANDON ITEM	RL A			STEEL MAST ARM POLE AND	RMF		
Y WIRE	>R	>	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED			
NAL HEAD	R —	>	-	12" (300mm) RED WITH 8" (200mm)		R		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
CNAL HEAD CONSTRUCTION STAGES UMBERS INDICATE THE CONSTRUCTION STAGE)			-	YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O–X——		
SNAL HEAD WITH BACKPLATE	+C ^R	+->	+-			R	R	FOUNDATION TO BE REMOVED	0 %		
SNAL HEAD OPTICALLY PROGRAMMED	R →⊃′′P′′	—>′′P′′	→ "P"	SIGNAL FACE		G A Y	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
ASHER INSTALLATION DENOTES SOLAR POWEF)	R O- ⊳ ″F″	O-t>"F"	●→ "F"			(∢ Y ∢ G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			IS
DESTRIAN SIGNAL HEAD	R -	-[]	-1			R	R	SAMPLING (SYSTEM) DETECTOR		[s]	S
DESTRIAN PUSHBUTTON DETECTOR	R	©	©	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			Y	EXISTING INTERSECTION LCOP DETECTOR		121	
CESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@aps					← Y ← G	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT)R	ĹĽ	
.UMINATED SIGN	R					"P"	"P"	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR)R	PP	
O LEFT TURN"	S)		•	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
UMINATED SIGN D RIGHT TURN''				12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
TECTOR LOOP, TYPE I]		INTERNATIONAL SYMEOL, OUTLINED						6 - —6	→
EFORMED DETECTOR LODP			P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		(*	RAILROAD	SYMBO	OLS	
CROWAVE VEHICLE SENSOR	R M)	M	M	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		(P) C	₽ C ★ D			EXISTING	<u>PROPOSED</u>
DEO DETECTION CAMERA	R [V]	(V)	₩	RADIO INTERCONNECT	##*O	##+0	<u>₩</u> ,=	RAILROAD CONTROL CABINET			R► <r< td=""></r<>
DEO DETECTION ZONE					1.	·		RAILROAD CANTILEVER MAST ARM		X ox x x	XeX
N. TH.T. ZOOM CAMEDA	R			RADIO REPEATER DENOTES NUMBER OF CONDUCTORS FLECTRIC	RERR	ERR	RR	FLASHING SIGNAL			X ⊕ X
N, TILT, ZOOM CAMERA	PIZI R		₽TZ N	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		_5		CROSSING GATE		X0X>	X 0 X -
RELESS DETECTOR SENSOR RELESS ACCESS POINT	R R		W	GROUND CABLE IN CONDUIT		(1)	(1)	CROSSBUCK		≥	*
	-	SICNED - DAC (BCV	DEVICES	NO. 6 SOLID COPPER (GREEN)					[C A II]		TOTA:
NAME = USER NAME = kanthaphixaybi	□ DE	SIGNED - DAG/BCK	REVISED	STATI			I	DISTRICT 1	F.A.U. RTE.	SECTION	COUNTY TOTAL SHEETS

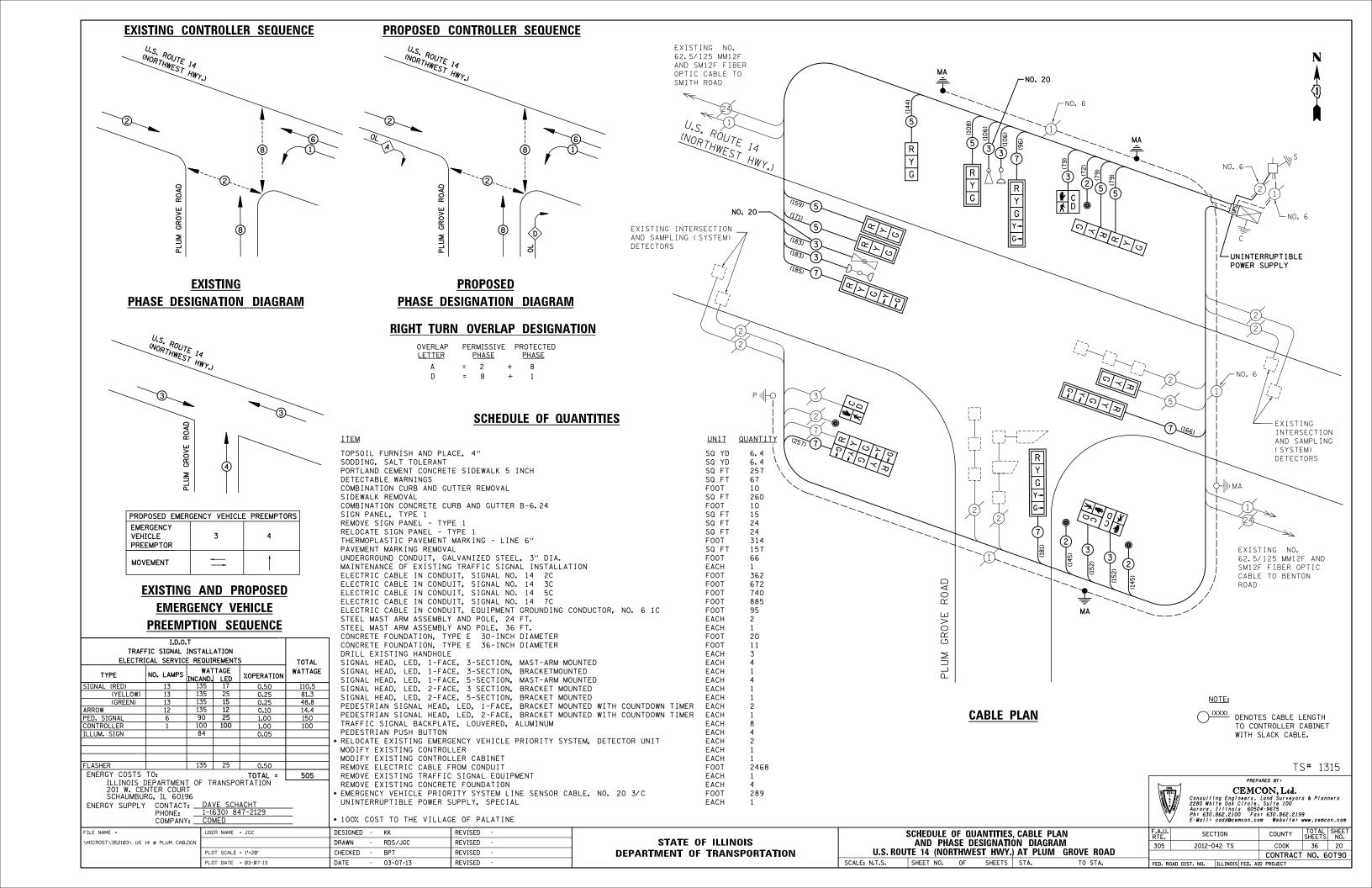


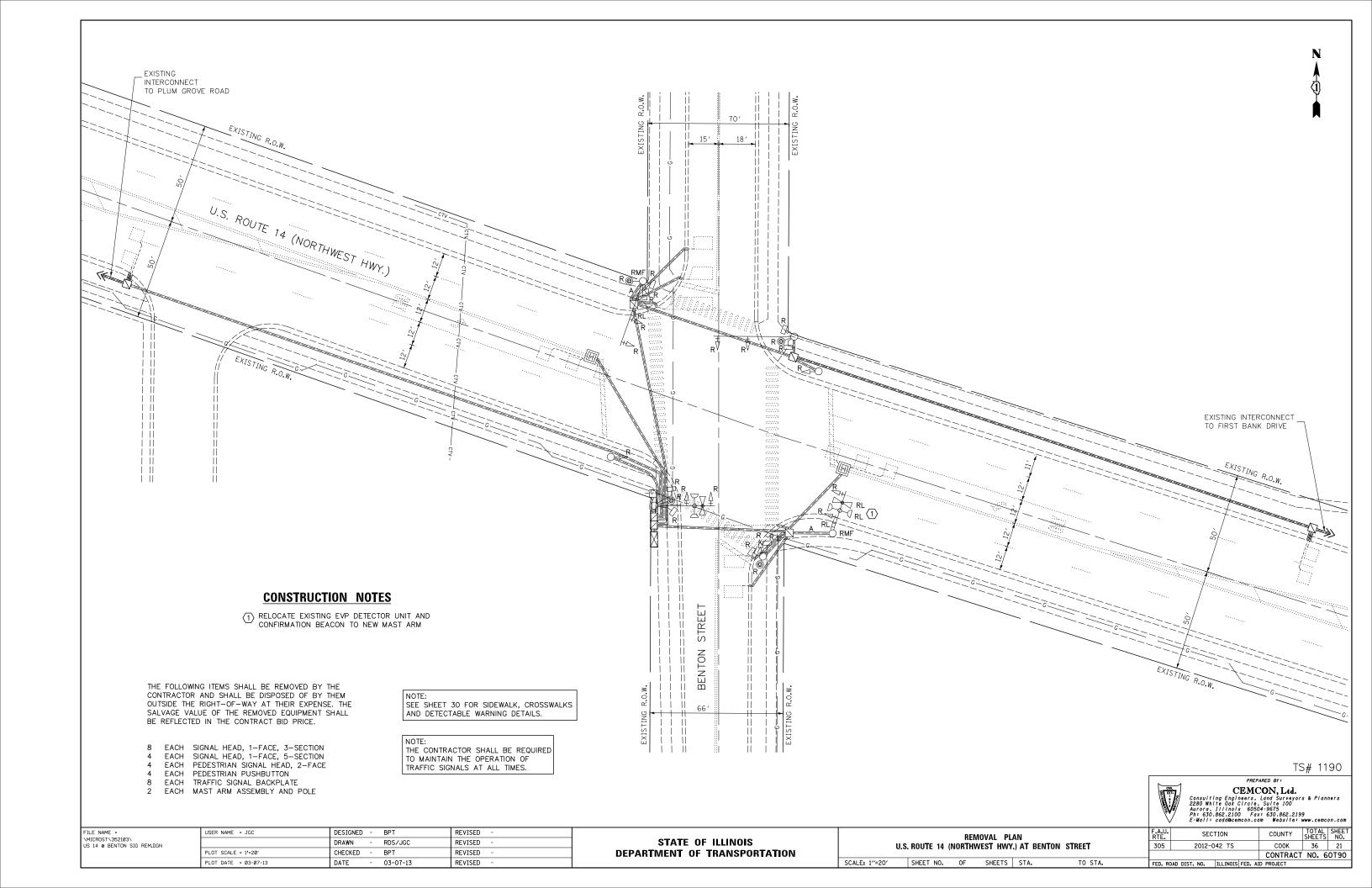


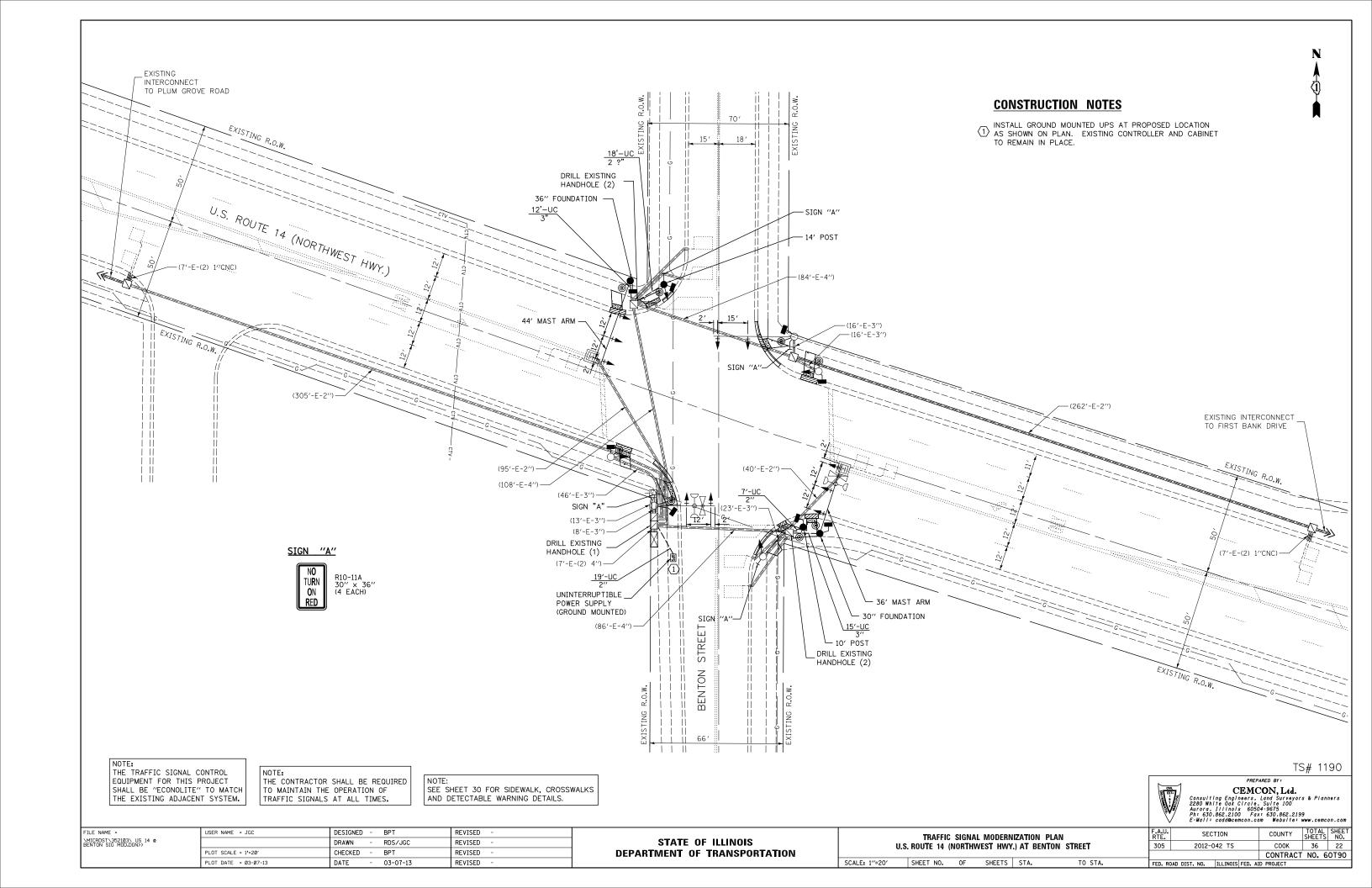


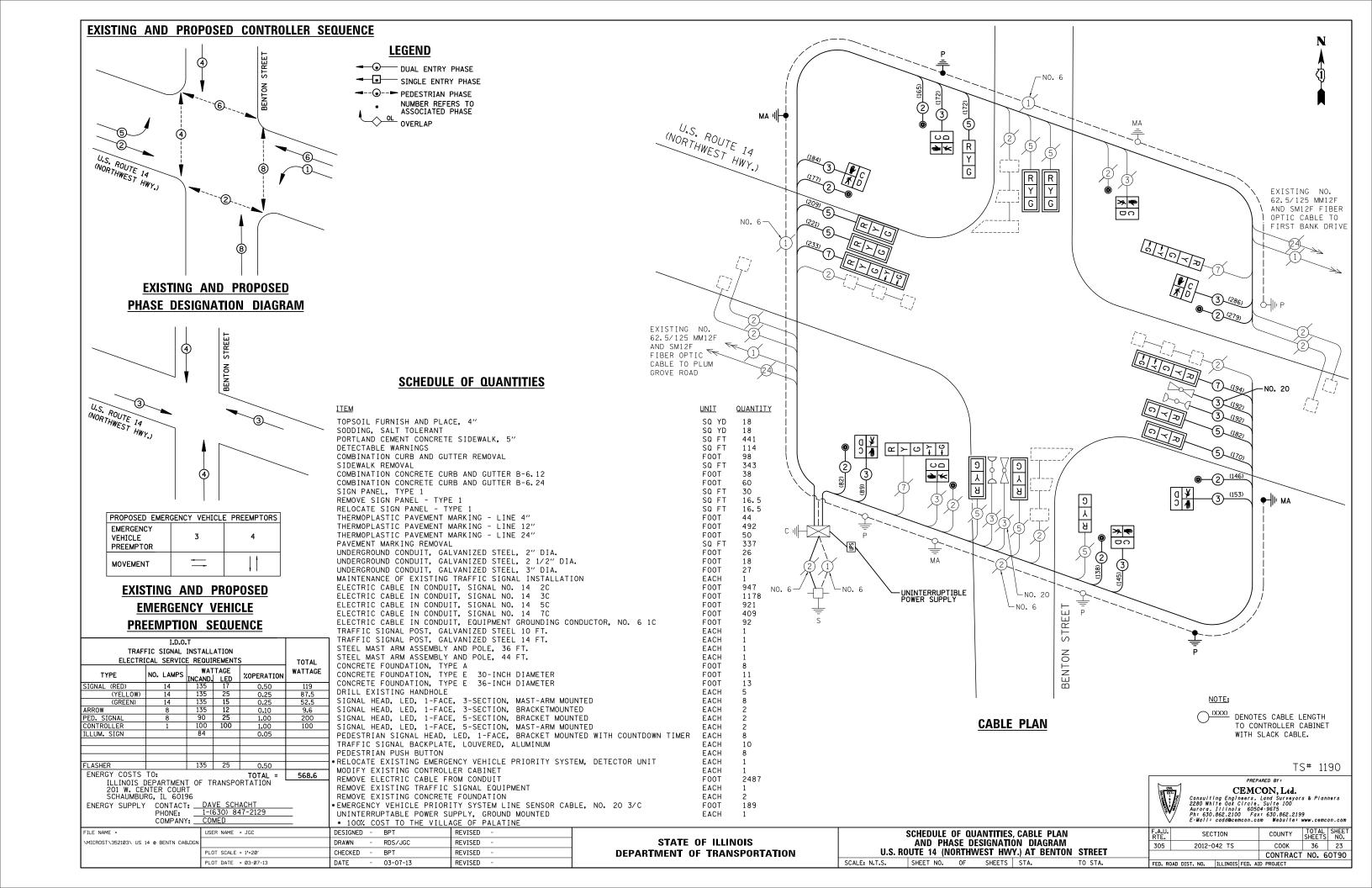


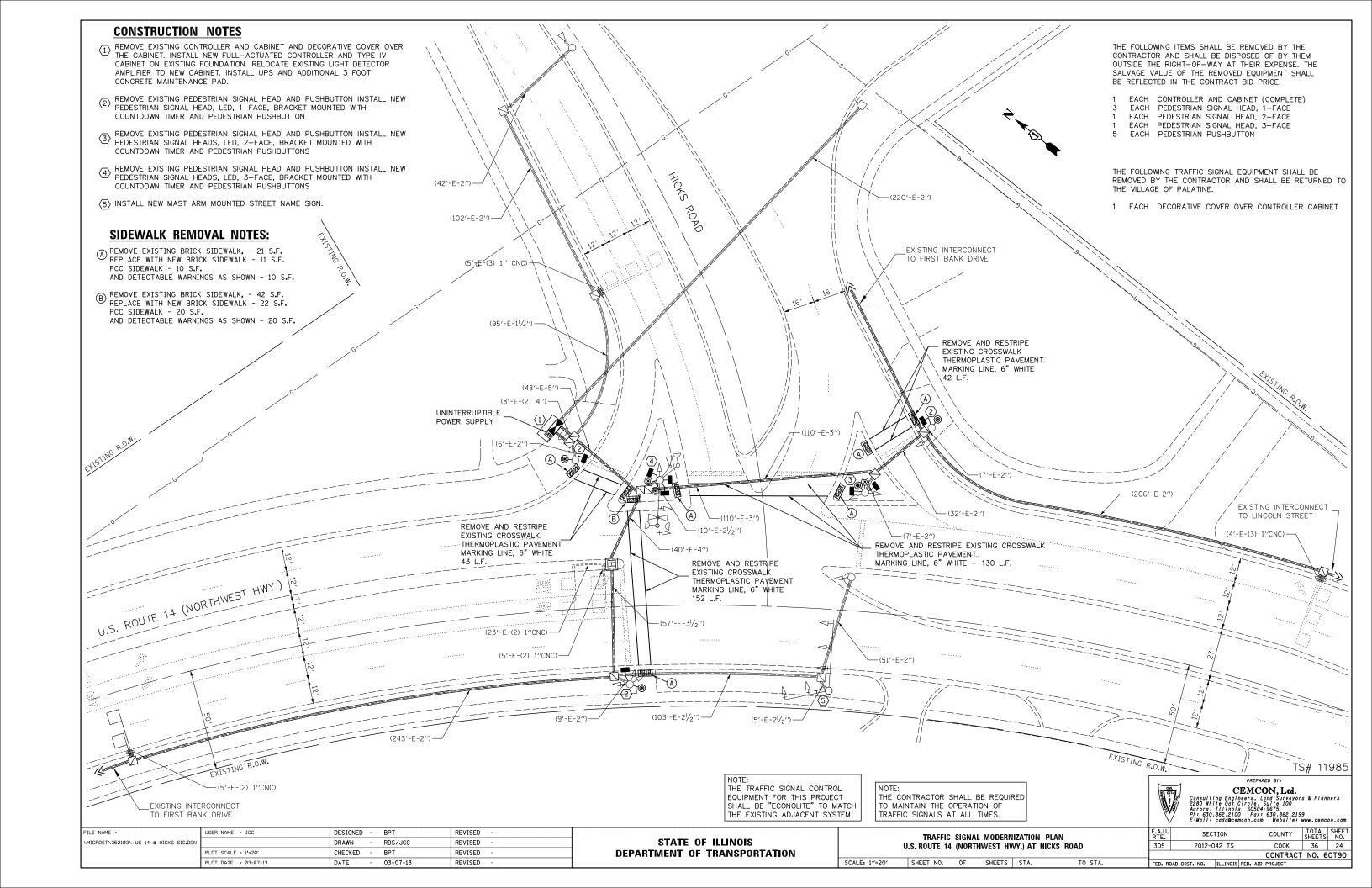


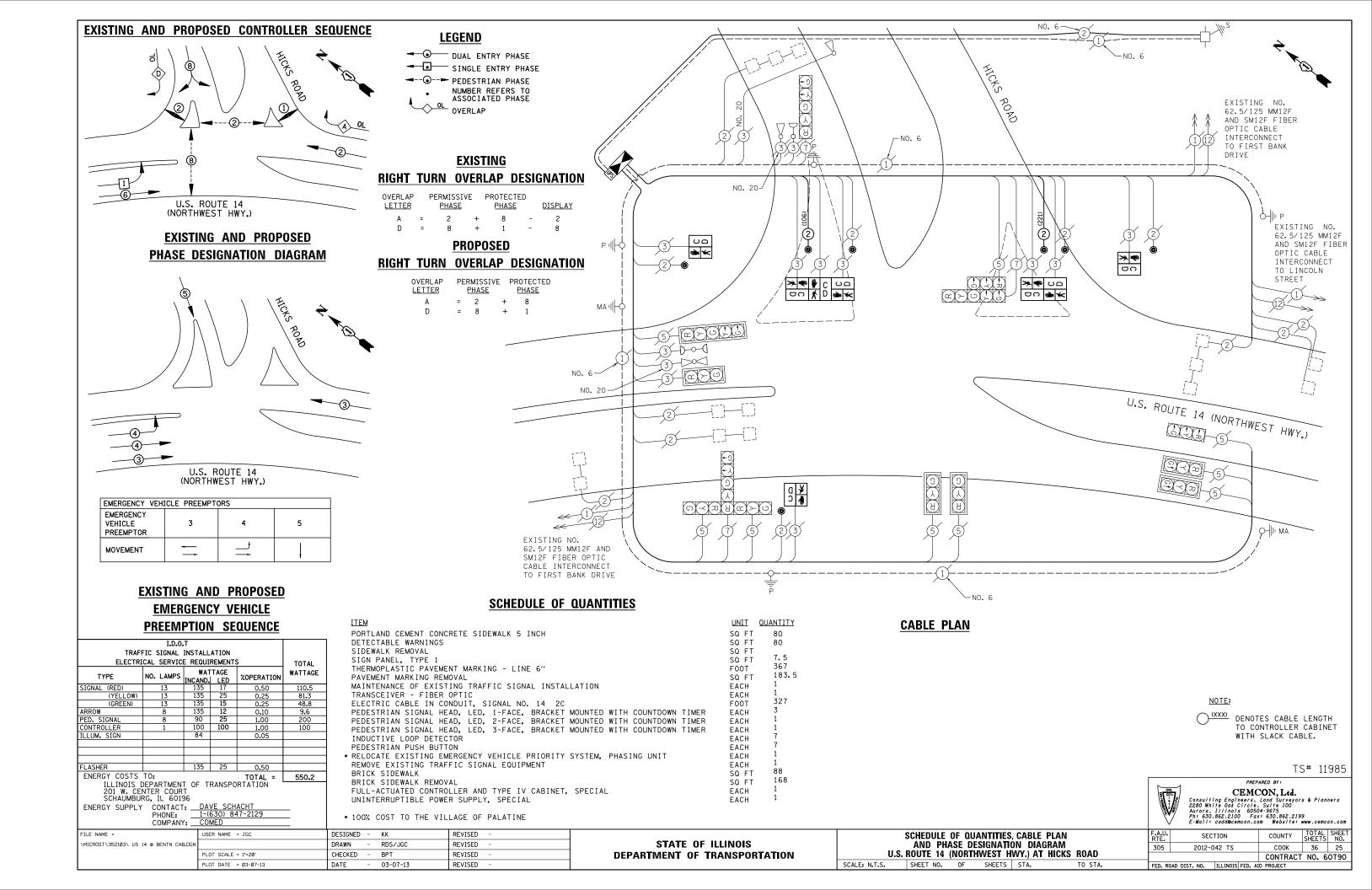


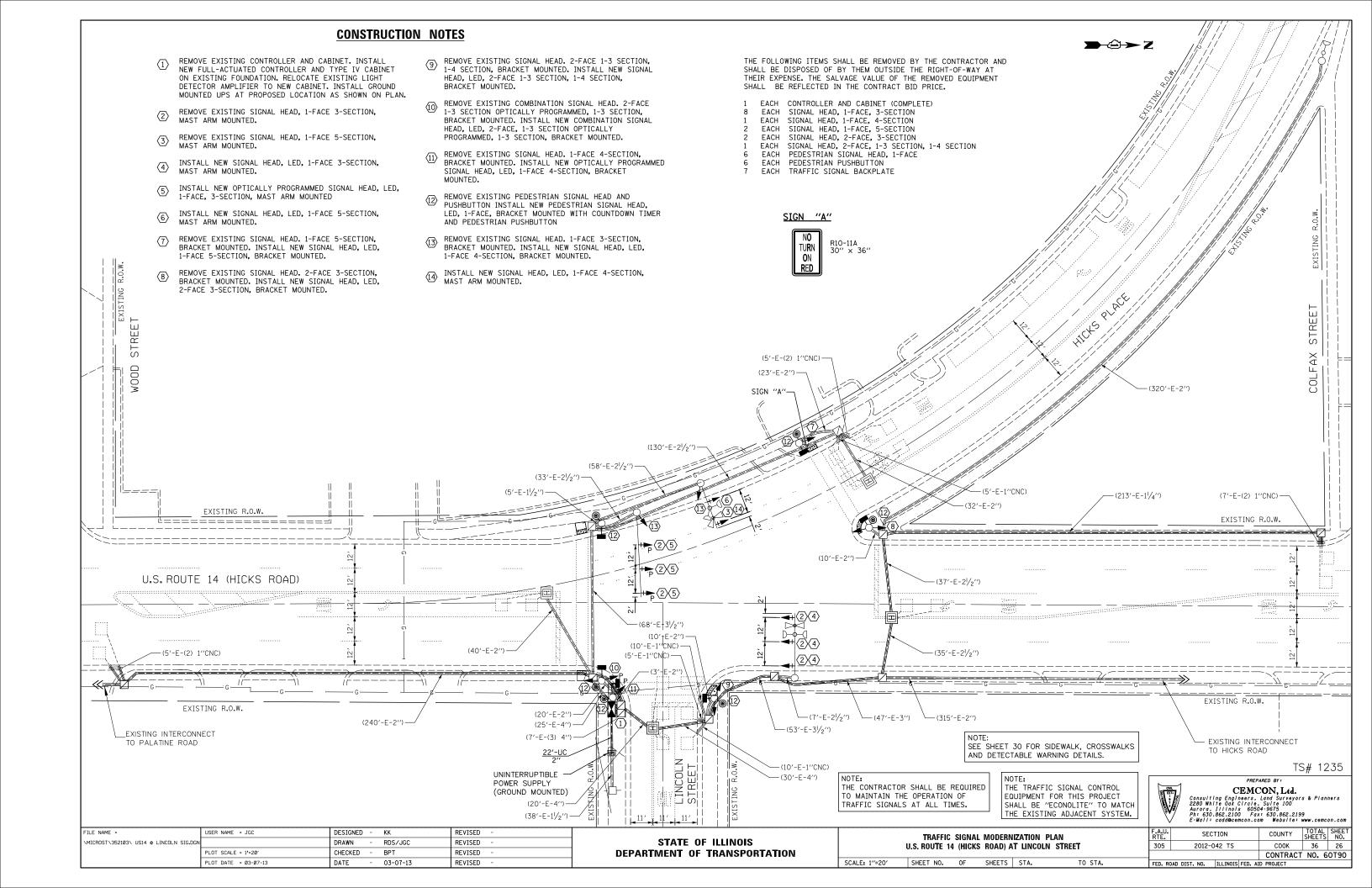


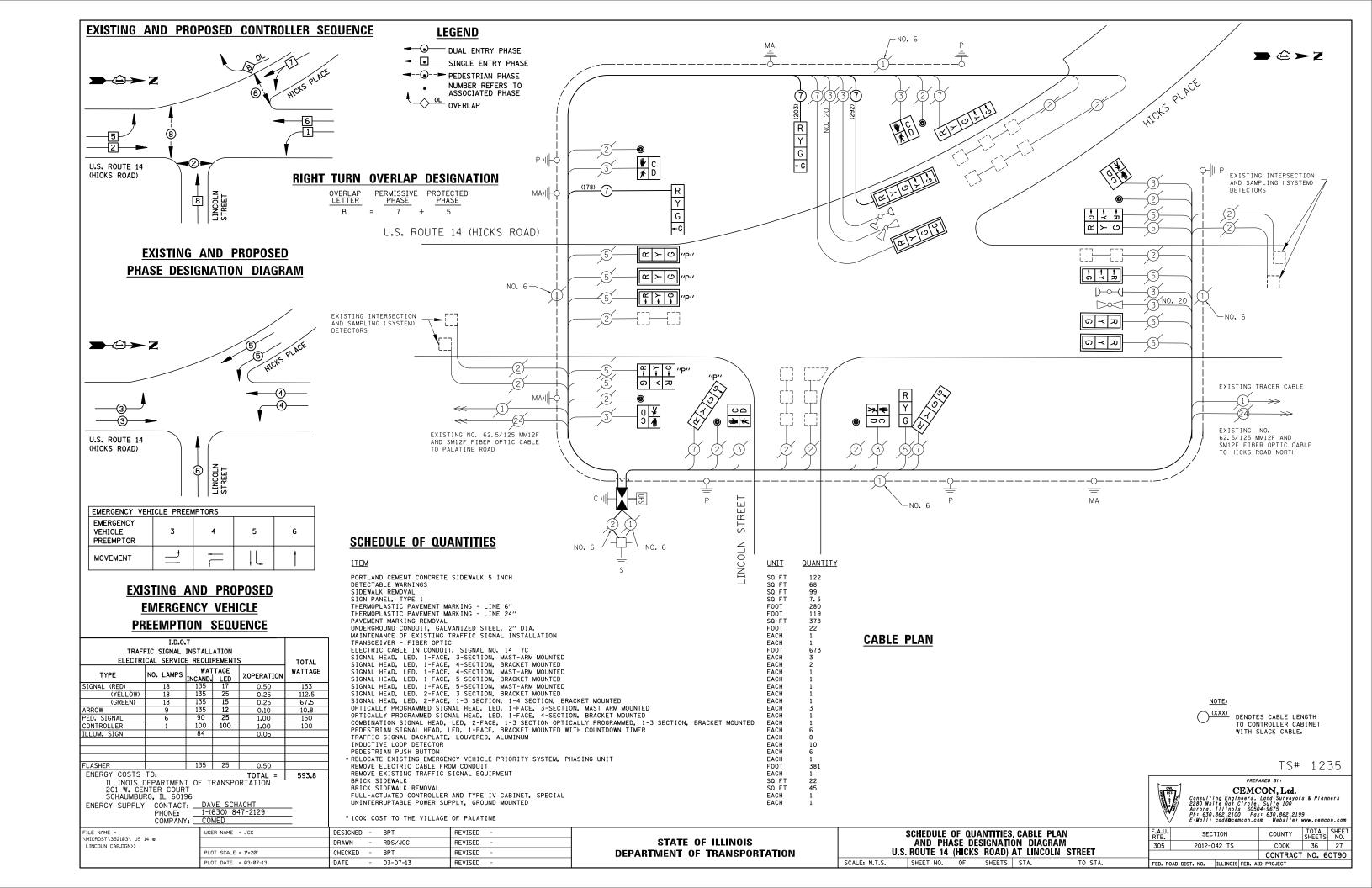


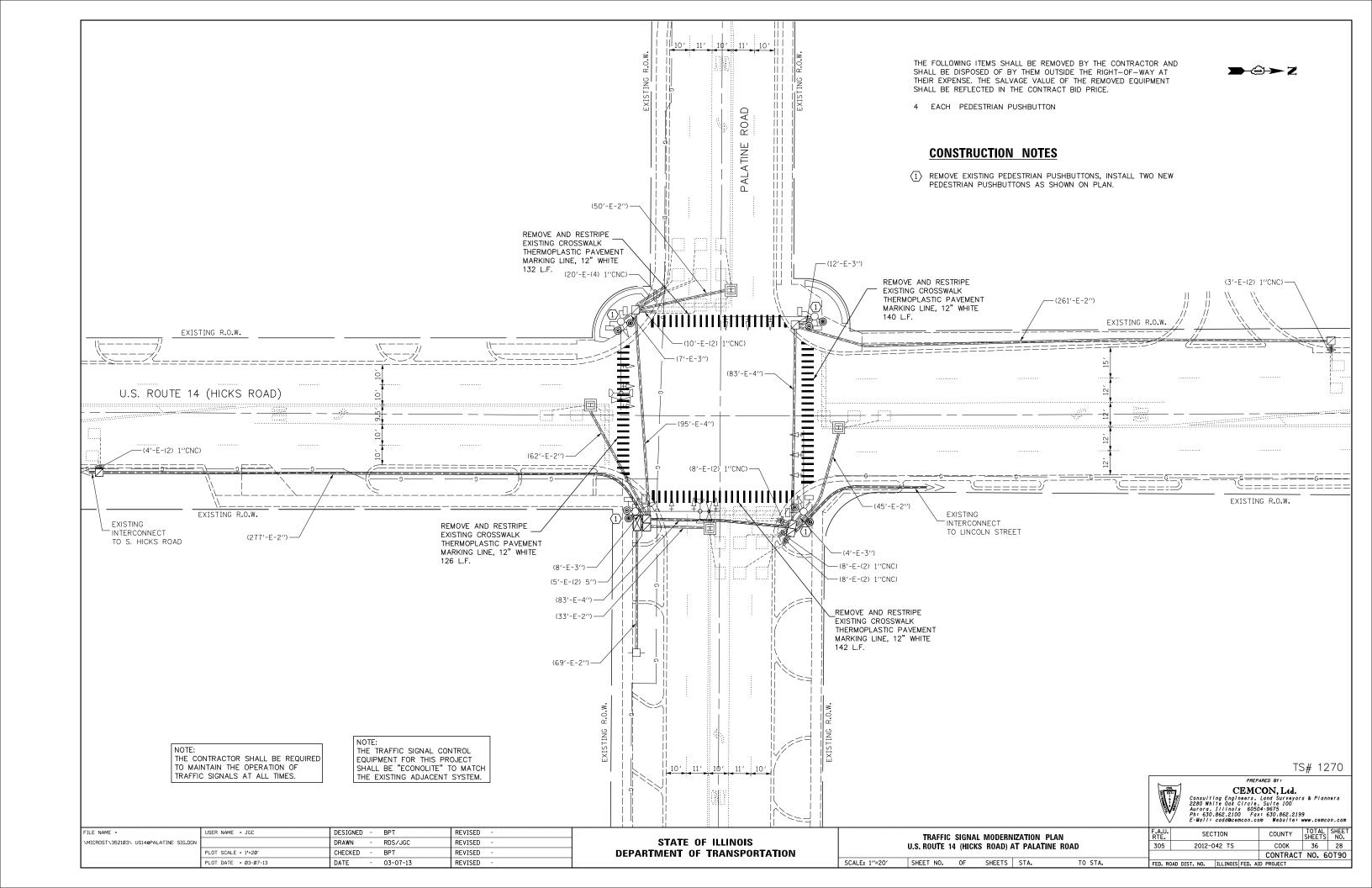


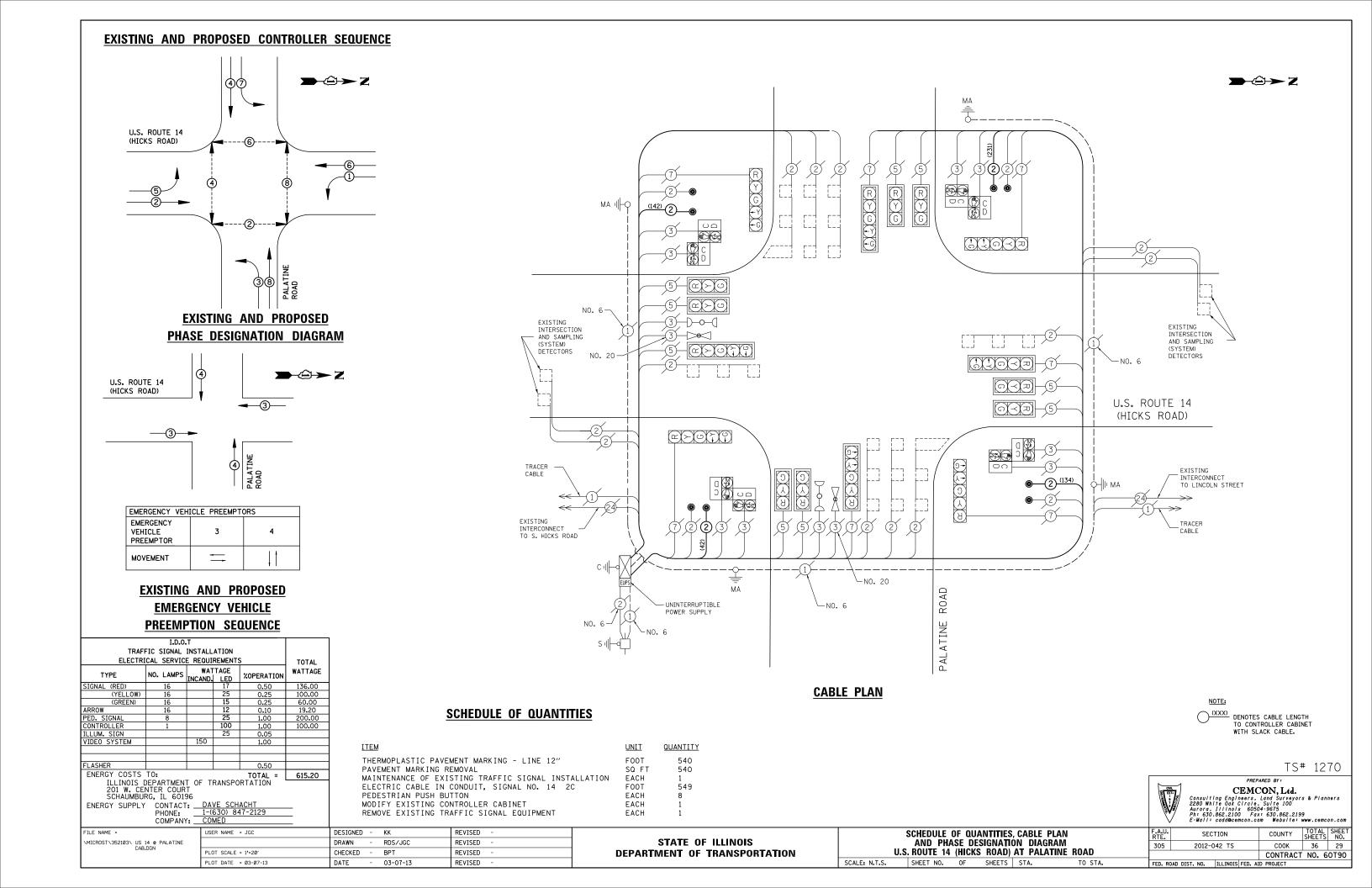


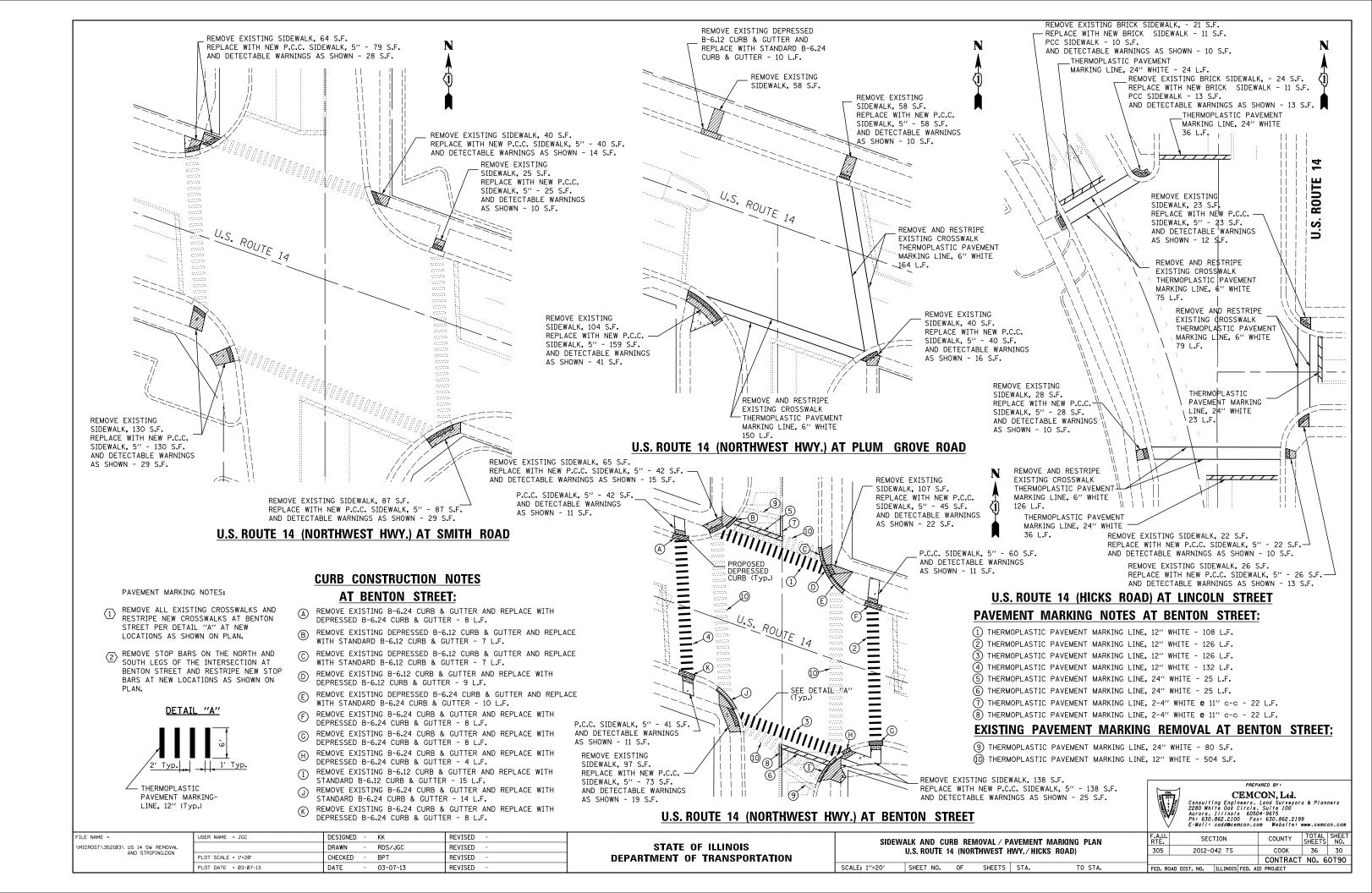


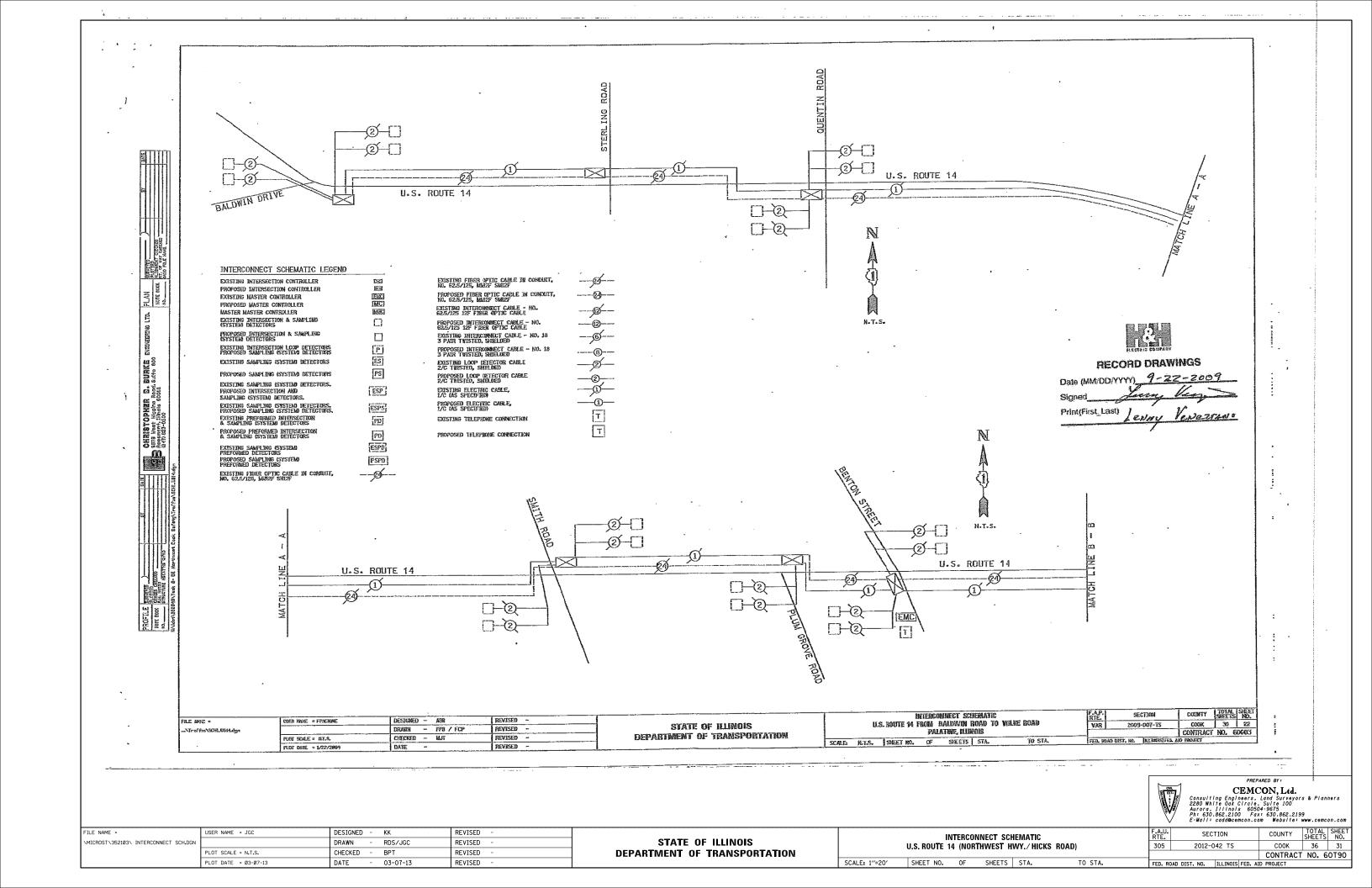


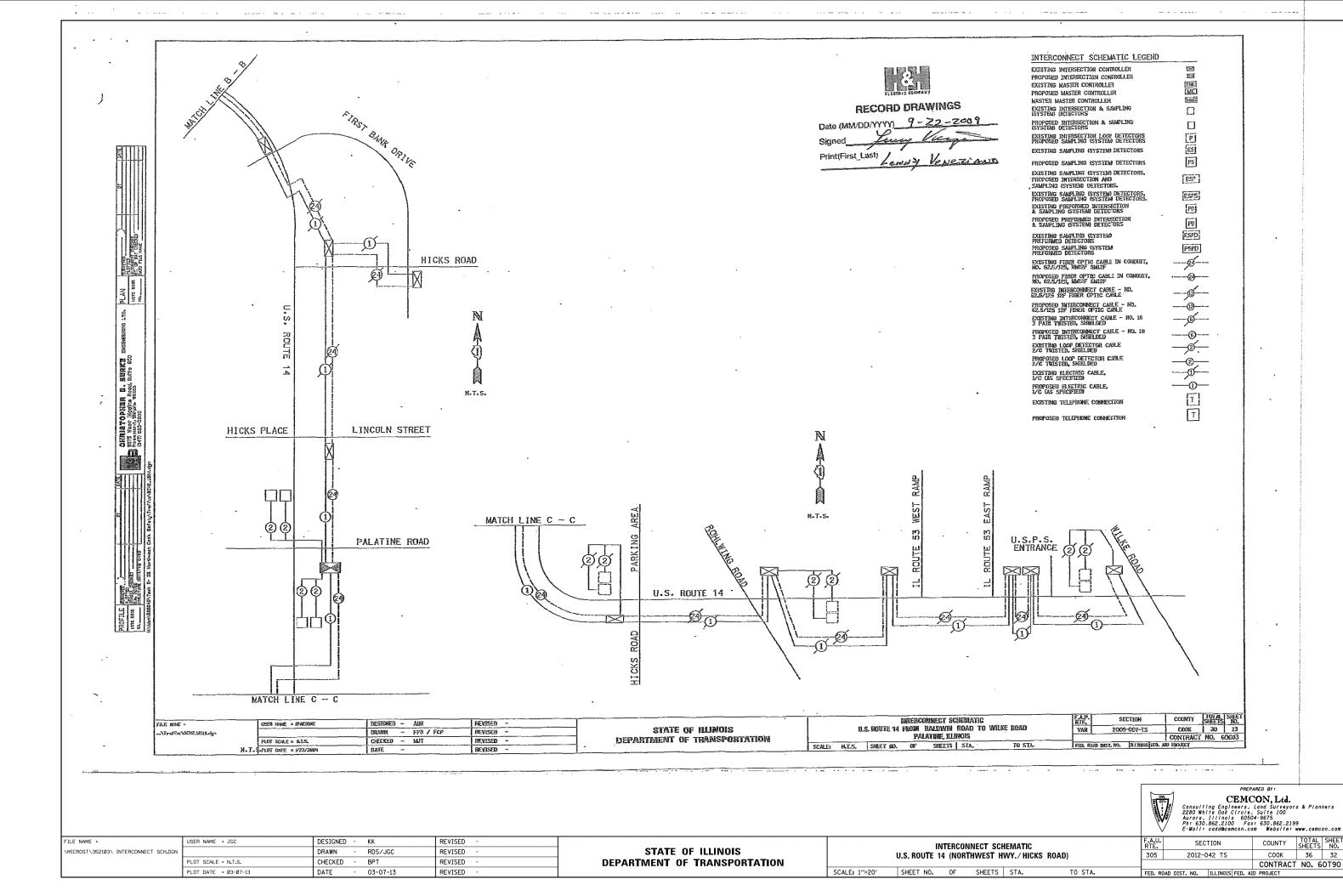


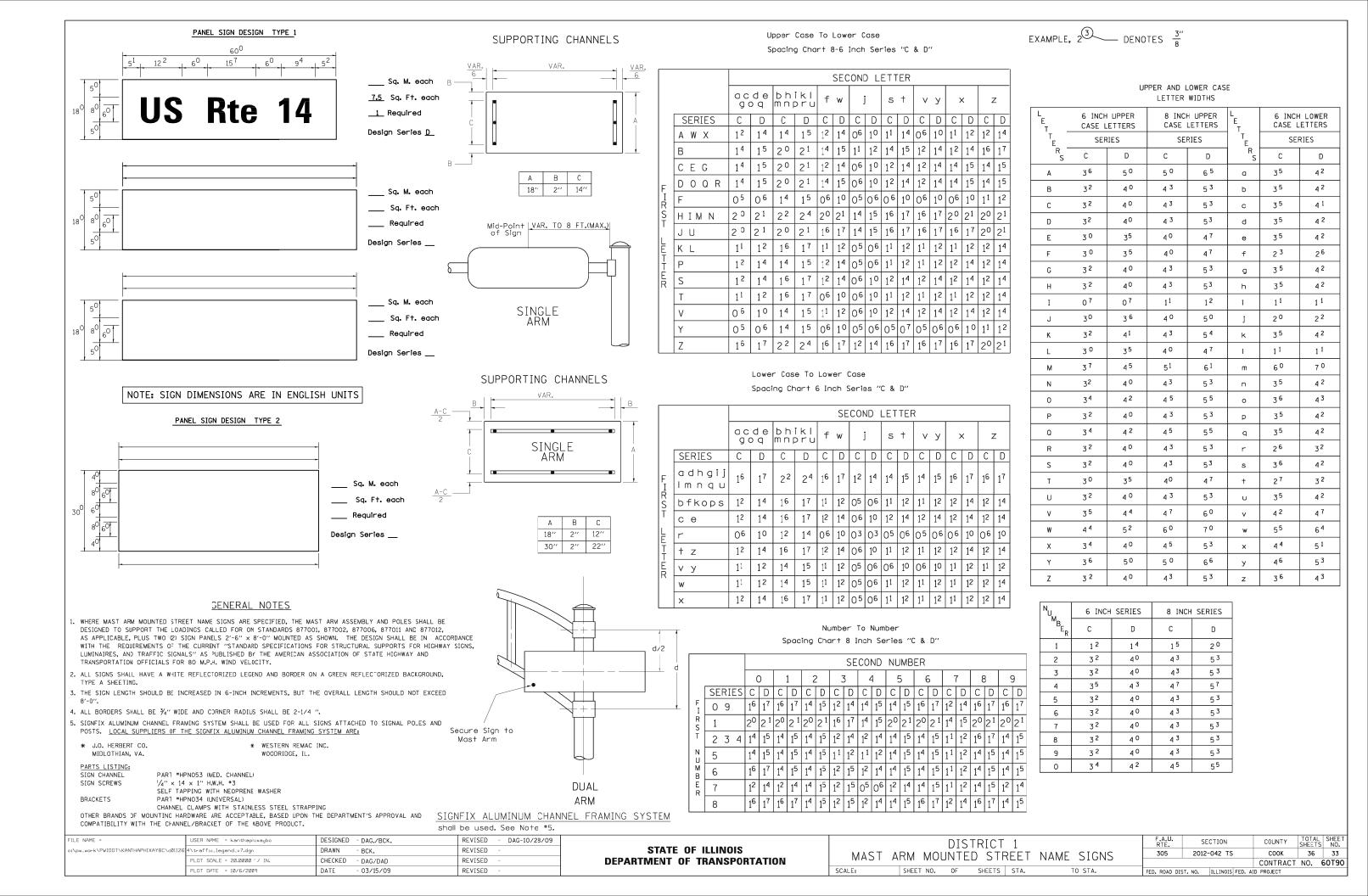


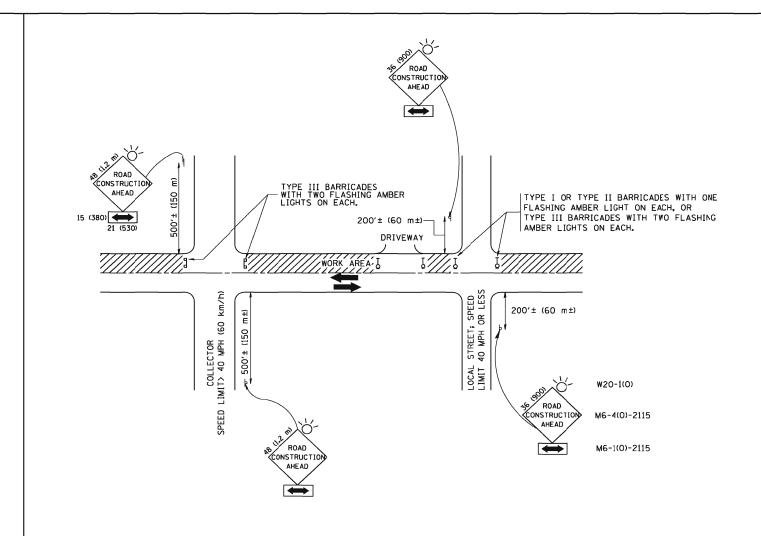












TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS
- 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.

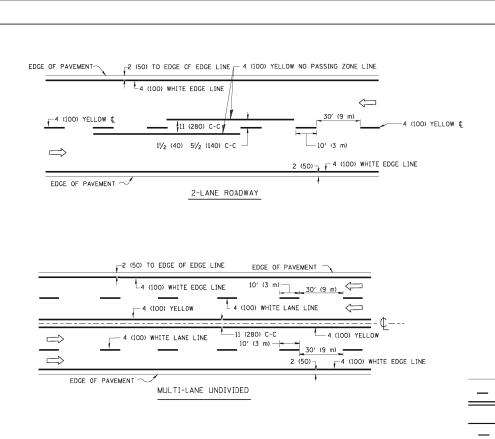
FILE NAME = DESIGNED - LHA REVISED - J. OBERLE 10-18-95 JSER NAME = gaglianobt W:\diststd\22x34\tc10.dgn DRAWN REVISED - A. HOUSEH 03-06-96 PLOT SCALE = 50.000 '/ IN. CHECKED REVISED - A. HOUSEH 10-15-96 PLOT DATE = 1/4/2008 DATE - 06-89 REVISED -T. RAMMACHER 01-06-00

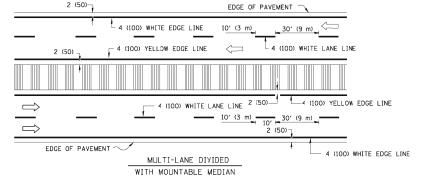
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SCALE: NONE

COUNTY TOTAL SHEET NO.

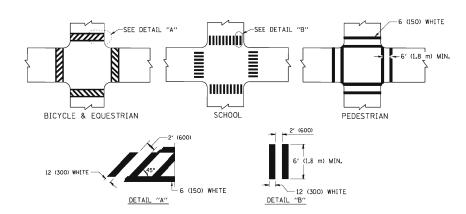
COOK 36 34 SECTION COUNTY 2012-042 TS 305 TC-10 CONTR CONTRACT NO. 60T90 SHEET NO. 1 OF 1 SHEETS STA.



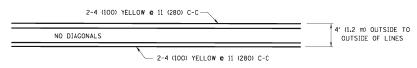


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

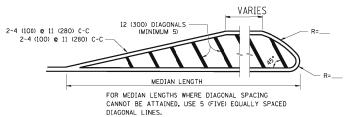
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

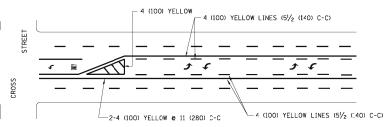


4' (1.2 m) WIDE MEDIANS ONLY

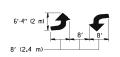


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

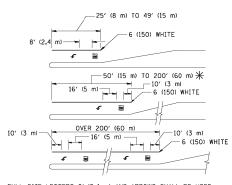


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

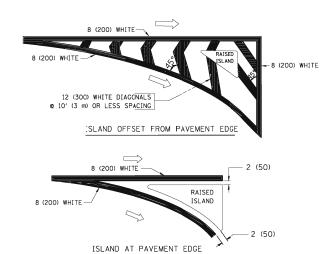


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) ONLY AREA = 20.8 SO. FT. (1.9 m²)

* 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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND 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	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

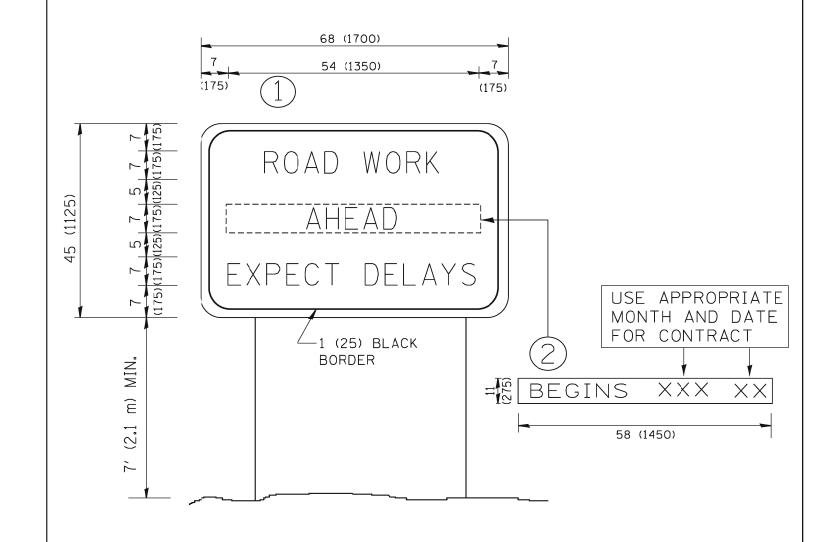
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = drivakosgn	DESIGNED	-	EVERS	REVISED	-T. RAMMACHER	10-27-94
c:\pw_work\pwidot\drivakoscn\d0108315\tc	3.dgn	DRAWN	-		REVISED	-C. JUCIUS	09-09-09
	PLOT SCALE = 50.000 '/ IN.	CHECKED	-		REVISED	-	
	PLOT DATE = 9/9/2009	DATE	-	03-19-90	REVISED	-	

STATE	0F	ILLINOIS
DEPARTMENT C)F 1	TRANSPORTATION

1	DISTRICT ONE					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ı	TYPICAL PAVEMENT MARKINGS				305	2012-042 TS	соок	36	35
ı		ITFICAL PAVEMENT MARKINGS					CONTRACT	NO. 6	OT90
ı	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. ILLINOIS FED. A	ID PROJECT		



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (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 = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.U. SECTION	COUNTY TOTAL SHEET
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		305 2012-042 TS	COOK 36 36
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99		INFORMATION SIGN	TC-22	CONTRACT NO. 60T90
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED	AID PROJECT