06-14-13 LETTING ITEM 033

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

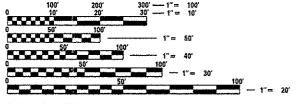
FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

# **HIGHWAY STANDARDS**

000001-06 STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS DECIMAL OF AN INCH OF A FOOT 001006 PERPENDICULAR CURB RAMPS FOR SIDEWALKS 424001-07 424006-01 DIAGONAL CURB RAMPS FOR SIDEWALKS 424011-01 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS DEPRESSED CORNER FOR SIDEWALKS 424021-01 606001-05 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER OFF-ROAD OPERATIONS 2L. 2W. >15' AWAY 701001-02 701006-04 OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE 701011-03 OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE 701301-04 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS 701501-06 URBAN LANE CLOSURE 2L, 2W UNDIVIDED URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN 701606-08 701701-08 URBAN LANE CLOSURE MULTILANE INTERSECTION LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE 701801-05 701901-02 TRAFFIC CONTROL DEVICES SIGN PANEL MOUNTING DETAIL 720001-01 720006-03 SIGN PANEL ERECTION DETAIL TYPICAL PAVEMENT MARKINGS 780001-03 ELECTRICAL SERVICE INSTALLATION DETAILS 805001-01 814001-02 HANDHOLE 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS) TRAFFIC SIGNAL GROUNDING & BONDING 873001-02 DOUBLE HANDHOLES 814006-02 STEEL MAST ARM ASSEMBLY AND POLE, 16' THROUGH 55' 877001-05 878001-09 CONCRETE FOUNDATION DETAILS SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION 880001-01 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

# PROJECT IS LOCATED IN THE CITY OF WEST CHICAGO



DETECTOR LOOP INSTALLATIONS

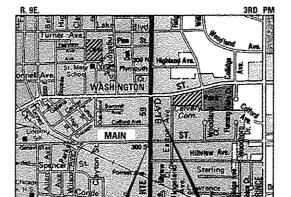
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E

886001-01

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

F.A.P. 338 (IL 59) AT MAIN STREET
IL 59 AT WASHINGTON STREET
SECTION 2012-056TS
PROJECT: HSIP-0338 (051)
TRAFFIC SIGNAL MODERNIZATION
Dupage County
JOB No.: C-91-018-13



(Not to Scale)

IL RTE 59 AT

MAIN STREET

# DESIGN DESIGNATION

IL 59 - OTHER PRINCIPAL ARTERIAL ADT = 33,900 POSTED SPEED LIMIT = 35 MPH

MAIN ST - MAJOR COLLECTOR ADT = 7,500 POSTED SPEED LIMIT = 25 MPH W/O IL 59 30 MPH E/O IL 59

WASHINGTON STREET - MINOR ARTERIAL
ADT = 13,000
POSTED SPEED LIMIT = 25 MPH W/O IL 59
35 MPH E/O IL 59

LOCATION MAP

IL RTE 59 AT

WASHINGTON STREET

# GIA GEWALT HAMILTON ASSOCIATES, INC.

850 Forest Edge Drive ■Vernon Hills, IL. 60061 Consulting Engineers & Surveyors 847-478-9700 FAX: 847-478-9701

#### D-91-018-13



IGNED: KEVIN L. BELGRAVE, EXP. 11/30/2013

MARCH 21, 2013

ORACH 21, 2013

ORACH 21, 2013

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

SUBMITTED

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DIVID 20 13

ENGINEER OF DESIGN AND ENVIRONMENT

10 20 13

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60V59

RAFFIC SIGNAL DESIGN - SUDUD MAHMOUD (847) 705-4420

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### INDEX OF SHEETS

32,

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1.	TITLE SHEET
2.	INDEX OF SHEETS
3-8.	SUMMARY OF QUANTITIES
9-14.	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
15.	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - IL 55 AT MAIN STREET
16,	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION DIAGRAM IL 59 AT MAIN STREET
17.	TRAFFIC SIGNAL MODERNIZATION PLAN - IL 59 AT MAIN STREET
18.	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PROTECTION DIAGRAM IL 59 AT MAIN STREET
19.	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - IL 59 AT WASHINGTON STREET
20.	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION DIAGRAM IL 59 AT WASHINGTON STREET
21.	TRAFFIC SIGNAL MODERNIZATION PLAN - IL 59 AT WASHINGTON STREET
22,	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION DIAGRAM IL 59 AT WASHINGTON STREET
23.	TEMPORARY INTERCONNECT AND SCHEMATIC PLAN IL 59 FROM FOREST AVENUE TO JAMES AVENUE
24.	INTERCONNECT PLAN - IL 59 FROM MAIN STREET TO WASHINGTON ST
25.	INTERCONNECT SCHEMATIC - IDOT SYSTEM *5A (IL 59 FROM IL 56 (BUTTERFIELD RD) TO DIVERSY PARKWAY)
26-27.	DISTRICT I STANDARD MAST ARM MOUNTED STREET NAME SIGNS
28-31.	DISTRICT 1 STANDARD DETAILS (TC-10, TC-14, TC-18 AND TC-22)

DISTRICT | TYPICAL PAVEMENT MARKINGS (TC-13)

DUE TO THE PRESENCE OF A RED LIGHT CAMERA RUNNING (RLR) FOR THE BELOW LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE MUNICIPALITY AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE MUNICIPALITY OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERABLE FOR THE TIME OF CONSTRUCTION, ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS PERSPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATION: IL 59 AT WASHINGTON STREET CITY OF WEST CHICAGO 475 MAIN STREET WEST CHICAGO, IL. 60186 (630) 293-2200 RED SPEED ILLINOIS, LLC 400 EISENHOWER LANE NORTH LOMBARD, IL. 60148 (630) 317-5700

### **GENERAL NOTES**

THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2012: MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION; PROJECT SPECIFICATIONS; ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION; THE CITY OF WEST CHICAGO AND DUPAGE COUNTY DEPARTMENT OF HIGHWAYS; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION; AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK,

THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY, AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSTABLE MATERIALS CREATED AS A RESULT THEREOF.

THE CONTRACTOR SHALL SOLEY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES. SUCH INFORMATION IS BASED ON RECORD INFORMATION PROVIDED BY THE INDIVIDUAL UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT JULLILE. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY COMPANIES UNDERGROUND FACILITIES.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED, ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE OT MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD IN ACCORDANCE TO STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REQUIRED WATERING PER ARTICLE 252.08. ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, RESPECTIVELY.

THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

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 ARM LENGTH.

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 IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES, AND IDOT 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).

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.

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 THE WORKER PROTECTION.

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 DUPAGE COUNTY. THE GENERATOR NUMBER FOR DUPAGE COUNTY IS 0438995010. ANY REMEDIAL WORK MUST BE DOCUMENTED FOR POTENTIAL ILLEGAL TRESPASS INFORMATION.

FILE NAME LESER NAME | creatiston DESIGNED -REVISED JRD STATE OF ILLINOIS 60v59~1502,da DRAWN J₽₩ REVISED BEDT SCALE : 1:20 CHECKED KLB REVISED **DEPARTMENT OF TRANSPORTATION** MODEL NAME & COSVESVA 100 TO REVISED AZCW 4-25-13 SCALE: NONE

			AT ION OF ORK	IL 59 AT MAIN STREET	IL 59 AT WASHINGTON STREET	INTERCONNECT	
	SUMMARY OF QUANTITIES		DING (DOWNS			.	
		ļ	rPE	TRAFFIC SIGNALS URBAN	TRAFFIC SIGNALS URBAN	INTERCONNECT URBAN	URBAN
CODE NO.	1TEM	UNIT	TOTAL	0021	0021	0021	0042
20200100	EARTH EXCAVATION	CU YD	5		5		
···		·					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	1,625	565	1.060		<del></del>
42400800	DETECTABLE WARNINGS	SO FT	196	100	96		
						444	<u>, , , , , , , , , , , , , , , , , , , </u>
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	345	200	145		
44000600	SIDEWALK REMOVAL	SO FT	1,520	565	955		<del></del>
4400000	SIDERICA (CADIAL	3011	1, 320	303	737	-	<del>, , , , , , , , , , , , , , , , , , , </del>
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	4	3	· t		
·· <del>································</del>					TI DOMESTICA DE LA CASA DE LA CAS	7	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	116	116	:		·
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	84	84		uum en	·
67000400	ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	3	1		l l	
		Territoria de la constanta de		· · · · · · · · · · · · · · · · · · ·			
67100100	MOBIL 1ZATION	L SUM	1	0.40	0.40	0.20	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0, 50	0.50		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	ŧ	0.40	0.40	0. 20	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	504	0.40	0.40	0. 20	
			-				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	ı	0.40	0.40	0. 20	
	O NON-SPECIAL WASTE DISPOSAL	CUYD	10	10		vermentavere	· · · · · · · · · · · · · · · · · · ·

66900450 SPECIAL WASTE PLANS AND REPORTS 66900530 SOIL DISPOSAL ANALYSIS

L SUM 1 EACH 1

USER HAME : J=oulle DESIGNED - JOR DRAWN JPW
CHECKED - KLB 60V59-500.dgn REVISED -PLOT SCALE : 1:20 REVISED -PLOT BATE + 3/12/2013

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES (SHEET 1 OF 6)

CTION COUNTY TOTAL SHEET NO. 1-05675 DUPAGE 32 3 CONTRACT NO. 60V59 \*Specialty SECTION 2012-056TS

SHEET \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_ TO STA.

# LIRBAN 901. FED/101.STATE

	<u></u>			ATION OF ORK	IL 59 AY WAIN STREET	IL 59 AT WASHINGTON STREET	INTERCONNECT	
		SUMMARY OF QUANTITIES		DING (DOWNS		-		
					TRAFFIC SIGNALS	TRAFFIC SIGNALS	INTERCONNECT	
	CODE NO.	ITEM	UNIT	TOTAL	URBAN 0021	URBAN 0021	URBAN 0021	URBAN 0042
* *	72000100	SIGN PANEL - TYPE 1	SO FT	33	12	21		
* *	72000200	SIGN PANEL - TYPE 2	SO FT	105	35	70		
* *	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,210	570	640		
* *	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	20		20		
* *	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT .	260	250	10		
* *	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	293	. 149	144		·
	78300100	PAVEMENT MARKING REMOVAL	SO FT	1,000	534	466		
	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2	· 1	1		
	81028200	UNDERGROUND CONDUIT. GALVANIZED STEEL. 2" DIA.	FOOT	742	205	433	104	-
	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	124	66	58		
	81028220	UNDERGROUND CONDUIT. GALVANIZED STEEL. 3" DIA.	FOOT	117	40	77		
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	882	368	494		
	81400100	HANDHOLE	EACH	6	2	. 4		
	81400200	HEAVY-DUTY HANDHOLE	EACH	8	4	4		
100 May 100 Ma			<u></u>					

\* \* SPECIALTY ITEMS

GHA #4085.884

ECTION COUNTY TOTAL SHEET
NO.
2-056TS DUPAGE 32 4

CONTRACT NO. 60V59

| ILLINOIS | FED. AID PROJECT F.A.P. RTE. 338 SECTION 2012-056TS FILE NAME : USER NOTE = jeoutfe DESIGNED - JOR REVISEO -SUMMARY OF QUANTITIES STATE OF ILLINOIS 68V59-1504,dgn DRAWN - JPW REVISED -(SHEET 2 OF 6) PLOT SCALE : 1:20 CHECKED - KLB DEPARTMENT OF TRANSPORTATION REVISED -SHEET \_\_\_ OF \_\_\_ SHEETS STA. \_\_ DATE - \_\_\_\_ SCALE: NONE TO STA.\_\_ PLOT DATE + 3/22/2013 REVISEO -

URBAN 90%.FED./10%.STATE

			ATIÓN DF DRK	IL 59 AT MAIN STREET	IL 59 AY WASHINGTON STREET	INTERCONNECT	
Transfer Tr	SUMMARY OF QUANTITIES		DING KDOWNS		,		
			YPE	TRAFFIC SIGNALS	TRAFFIC SIGNALS	INTERCONNECT	
CODE NO.	ITEM	UNIT	TOTAL	URBAN 0021	URBAN	URBAN 0021	URBAN 0042
						·	
81400300	DOUBLE HANDHOLE	EACH	4	Z	2		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			2	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2	1	1		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1, 396			1, 396	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2, 573	1, 177	1, 396		
01301213	ELECTRIC CASE IN CONDUIT, STONE NO. 14 20		2, 313	1,177	1, 336		**************************************
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3, 332	1,523	1, 809		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,859	746	1, 113		
					-		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	4,068	2, 116	1, 952		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4, 498	2, 242	2, 256		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	75	49	26		<del></del>
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,060	498	562		
07500000	TOLETIA GIANU DACE ALVANIZZA ANGEL ES SE						
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	8	4	4		
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1	1			
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		. 1		

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							GHA ≖4085.884
PRE NAME :	USER HAME * jegulfe	DESIGNED JOR	REVISED	·	SUMMARY OF QUANTITIES	FAP. SECTION	COUNTY TOTAL SHEET
68Y59-500.dgn		DRANN - JPW	REVISED	STATE OF ILLINOIS		338 2012-05675	OuPage 32 5
	PLOT SCALE : 1:20	CHECKED - KLB	REVISED	DEPARTMENT OF TRANSPORTATION	(SHEET 3 OF 6)	336 2012-03813	CONTRACT NO. 60V59
Default	PLOT DAYE = 3/12/2013	DATE -	REVISED -		SCALE, MONE SHEET OF SHEETS STA. TO STA.	BL BOS SEC.	AID PROSCT

URBANI 901.FEO./101.STATE

<u> </u>		LOC	ATION OF ORK	IL 59 AT MAIN STREET	IL 59 AT WASHINGTON STREET	INTERCONNECT	
	SUMMARY OF QUANTITIES		4D ENG KDOWNS				
		T	YPE	TRAFFIC SIGNALS URBAN	TRAFFIC SIGNALS URBAN	INTERCONNECT URBAN	URBAN
CODE NO.	TEM	UNIT		0021	0021	0021	0042
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1		ı	· · · · · · · · · · · · · · · · · · ·	
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	l	1			
87700250	STEEL MAST ARM ASSEMBLY AND POLE. 42 FT.	EACH	2	1			
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1	1			
87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	ı		1		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	32	16	16	· · · · · · · · · · · · · · · · · · ·	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8	4	4	·	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	100	48	52		
87900200	DOIL) EVICTING HANDING C	F + C !!					
61300200	DRILL EXISTING HANDHOLE	EACH	4	4			
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9	4	5	***************************************	
88030100	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5	2	3		
88030110	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	11	6	5		
88030220	SIGNAL HEAD, LED. 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3	2	: 1		
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16	8	8		
00106111	LOUSING STORME READ, LED, 1-TALE, DRACKET MOURIEU HITH COUNTDOWN TIMER	EAUM	19	6	8		

							GHA #4085.88	.84
FILE HÁME 2	USER NAME + Jagolfa	DESIGNEO - JOR	REVISED		SUMMARY OF QUANTITIES	F.A.P. SECTION	COUNTY TOTAL SHEE	(ET
60V39-TSD6.dgn		DRAWN - JPW	REVISED	STATE OF ILLINOIS	•	338 2012-05675	DuPAGE 32 6	
	PLOT SCALE = 1/20	CHECKED - KLB	REVISED	DEPARTMENT OF TRANSPORTATION	(SHEET 4 OF 6)	1002 02013	CONTRACT NO SOVS	50
Omfoult	PLOT DATE + 3/21/2013	DATE	REVISED		SCALE, MONE SHEET OF SHEETS STA TO STA.	ILLIHOIS FED. AI	ID PROJECT	

URBAN 90'(.FED./10').51ATE

			ITION OF ORK	IL 59 AT MAIN STREET	IL 59 AT WASHINGTON STREET	INTERCONNECT	
	SUMMARY OF QUANTITIES		DING DOWNS				Vertical minutes and minutes a
		1	rPE	TRAFFIC SIGNALS URBAN	TRAFFIC SIGNALS URBAN	INTERCONNECT URBAN	URBAN
CODE NO.	ITEM	UNIT	TOTAL	0021	0021	0021	0042
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	20	10	10		
88500100	INDUCTIVE LOOP DETECTOR	EACH	21	11	10		
88600100	DETECTOR LOOP, TYPE I	FOOT	2, 278	1,276	1.002		
88700200	LIGHT DETECTOR	EACH	4	2	2		
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2	1	1		
88700300	LIBIT DEFECTOR ANNEST REN		La constitution of the con	•			
88800100	PEDESTRIAN PUSH-BUTTON	EACH	16	. 8	8		
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2, 243		250	1, 993	
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3, 134	1,090	510	1.534	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1	1		
89502380	REMOVE EXISTING HANDHOLE	EACH	16	8	8		
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	18	ý ý	9		
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	585	274	311		
x0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	1,840	765	525	550	

<sup>\* 100%</sup> OF COST SHALL BE PAID FOR BY THE CITY OF WEST CHICAGO

					-					GHA *4085.884
FILE NAME +	USER NAME : proulfe	DESIGNED -	JOR	REVISED -			SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET NO.
68V59-T587.dgn		ORAWN -	JPW	REVISED -		STATE OF ILLINOIS	(SHEET 5 OF 6)	338 20	012-05675	DUPAGE 32 7
	PLOT SCALE : 1:20	CHECKED -	KLB	REVISED -		DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60V59
Default	PLOT DATE = 3/22/2013	DATE -		REVISED -			SCALE: NONE SHEET OF SHEETS STA TO STA		ILLINOIS FED. A	ND PROJECT

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		1.	ATION OF ORK	IL 59 AT MAIN STREET	IL 59 AT WASHINGTON STREET	INTERCONNECT	
	SUMMARY OF QUANTITIES		ID ING KDOWNS				
				TRAFFIC SIGNALS	TRAFFIC SIGNALS	INTERCONNECT	<del> </del>
			YPE	URBAN	URBAN	URBAN	URBAN
CODE NO.	1 TEM	TINU	TOTAL	0021	0021	0021	0042
×8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET. SPECIAL	EACH	2	1			
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2	1	. 1		
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125. MM12F SM24F	FOOT	1.396			1, 396	
XX000406	BRICK PAVER REMOVAL AND REPLACEMENT	SO FT	855	855			
		<del> </del>					
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	154.20	77. 10	77.10		
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2			2	
70077610	TEMPORARY TRANSPORTED ALIQUID					· · · · · · · · · · · · · · · · · · ·	
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	1	1	<del></del>	
70076600	TRATNEES					<del></del>	
200,0000	TIRRELY	- HOUR	500				500
			1				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 6 OF 6)

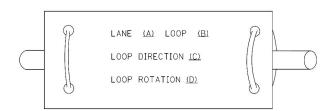
SCALE: NONE SHEET OF SHEETS STA. TO STA.

| F.A.P. | SECTION | COUNTY | TOTAL SHEET | NO. |
| 338 | 2012-056TS | DUPACE | 32 | 8 |
| CONTRACT NO. 60V59 | | ILLINOIS| FED. AID PROJECT

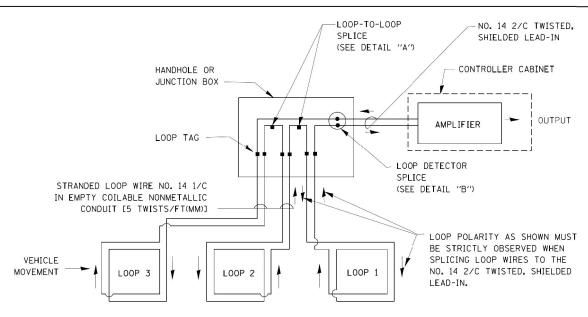
#### LOOP DETECTOR NOTES

- 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

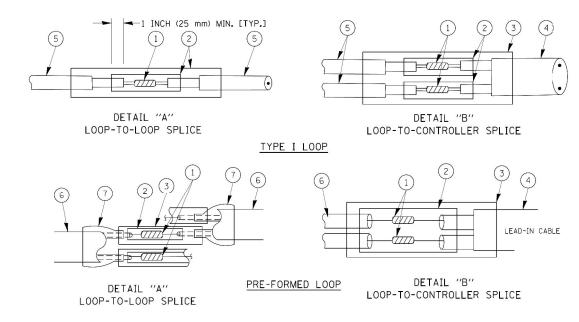


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



#### 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.



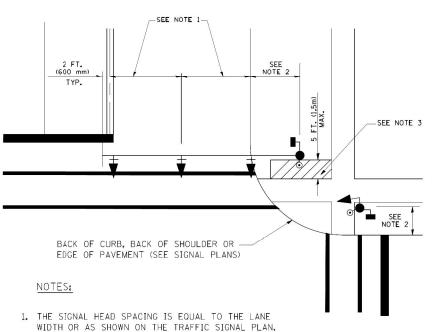
#### LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES  $^\prime$  of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
- BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -			DISTRICT ONE		F.A.P.	SECTION		SHEETS NO
c:\pw_work\PWIDOT\3AUERDL\dØ108315\ts05	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS				338	2012-056TS	DuPAGE	32 9
	PLOT SCALE = 50.00000 ' / IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DE	ESIGN DETAILS	-	TS-05	CONTRACT NO	0. 60V59
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS ST	TA, TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	AID PROJECT	

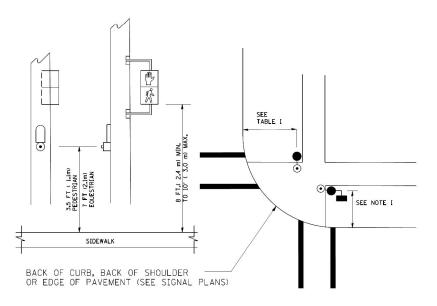
#### TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



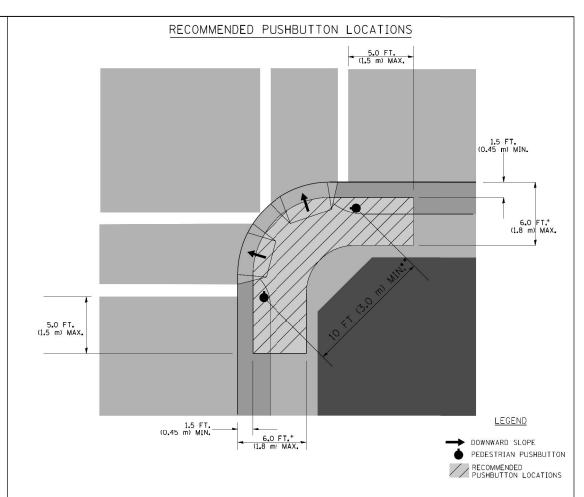
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO 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 LISED.
- 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.
- I. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED A TACHMENTS 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.

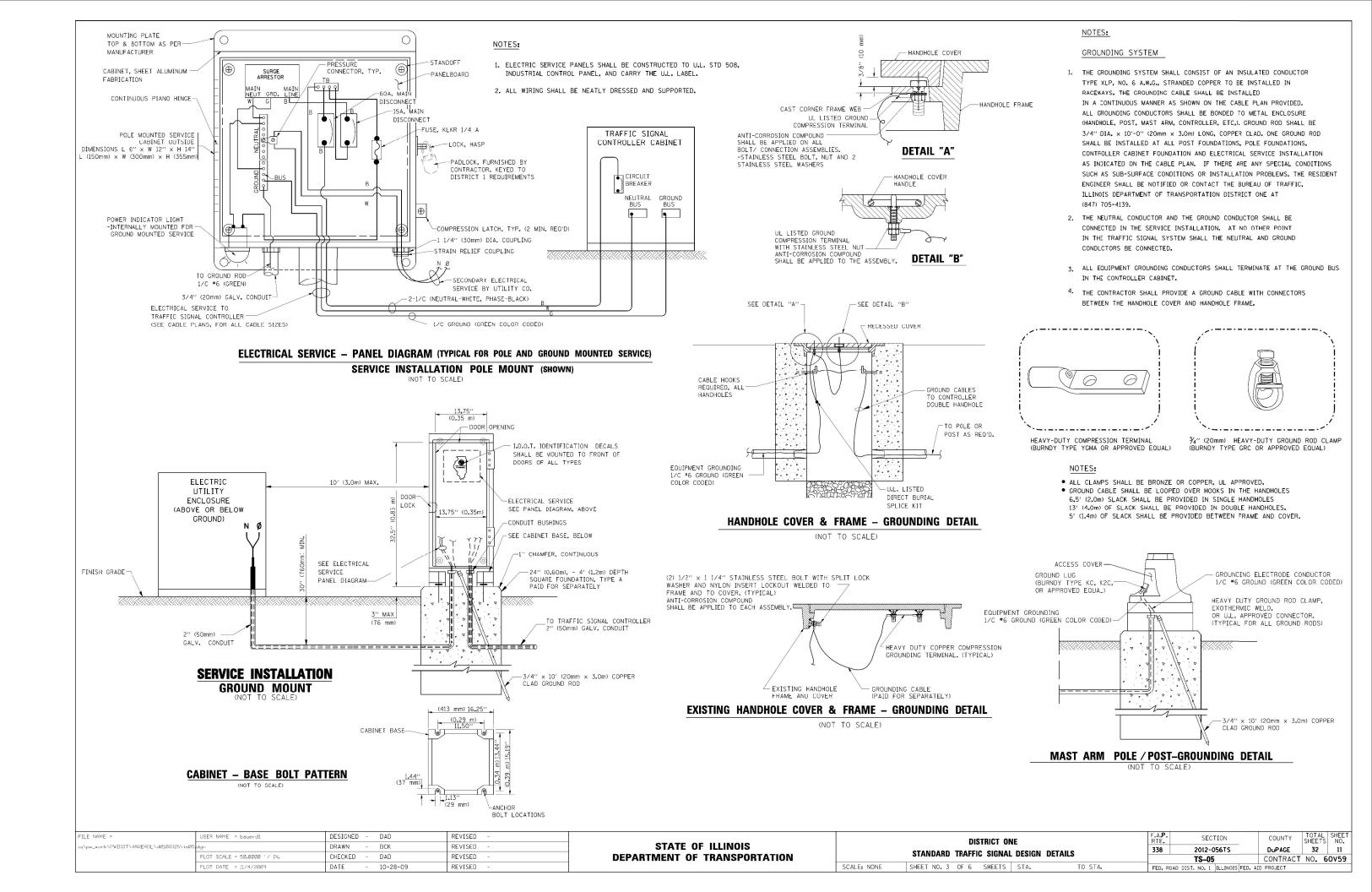
# TRAFFIC SIGNAL EQUIPMENT OFFSET

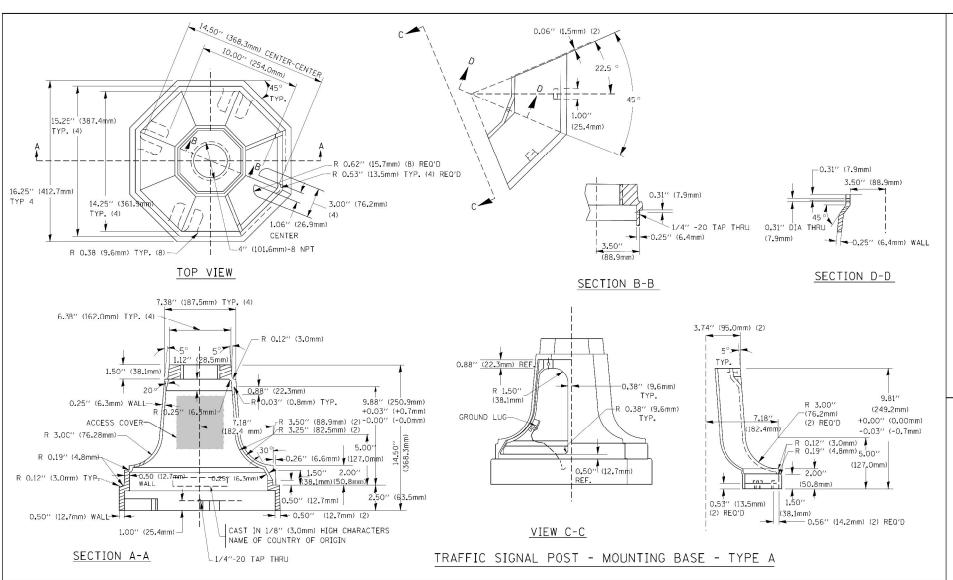
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

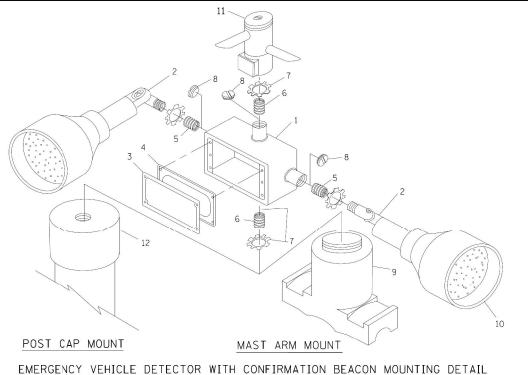
#### NOTES:

- 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 =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -		DISTRICT ONE	F.A.P.	SECTION	COUNTY SHEET
c:\pw_work\PWIDOT\3AUERDL\dØ108315	i\ts05.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS	800000000000000000000000000000000000000	338	2012-056TS	DuPAGE 32 10
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT NO. 60V59
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -		SCALE: NONE   SHEET NO. 2 OF 6 SHEETS   STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FE	D. AID PROJECT



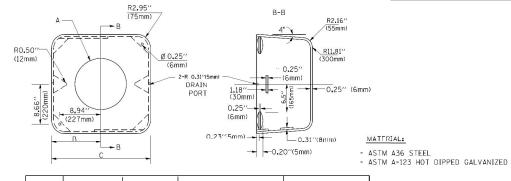




ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4''(19 mm) CLOSE NIPPLE
7	3/4''(19 mm) LOCKNJT
8	3/4''(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
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 ECUIVALENT
  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 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.

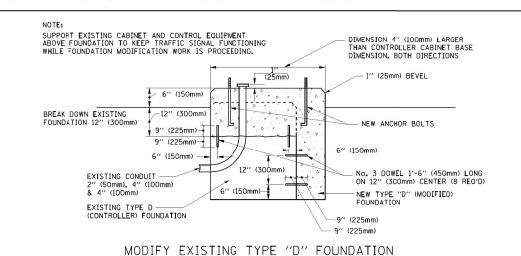


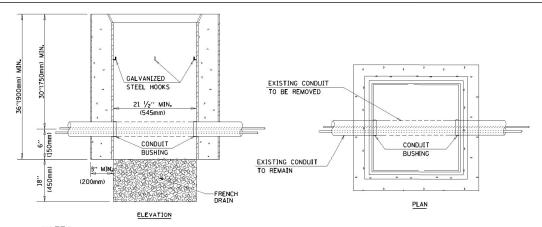
Α	В	С	HEIGHT	WEIGHT
VARIES	9.5′′(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75′′(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs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

### SHROUD

#### NOTES:

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



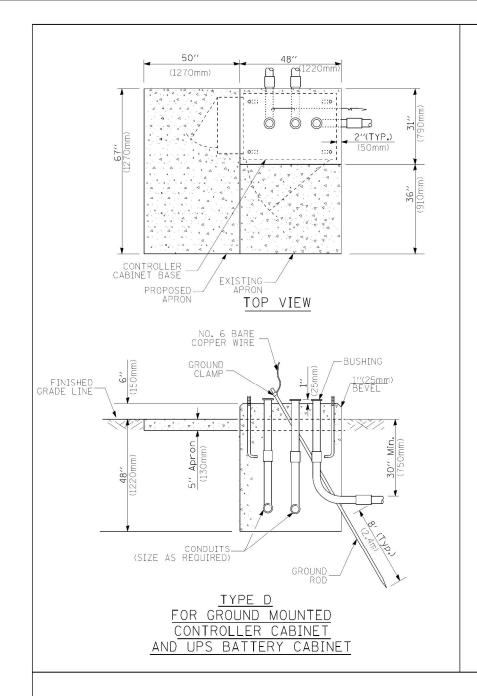


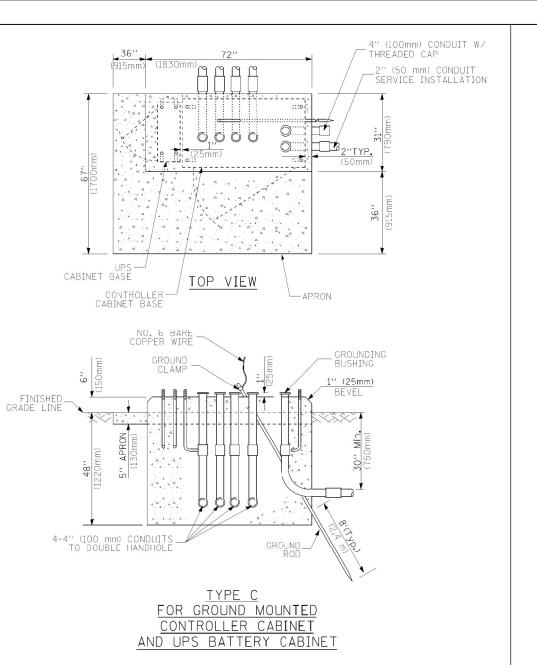
# NOTES:

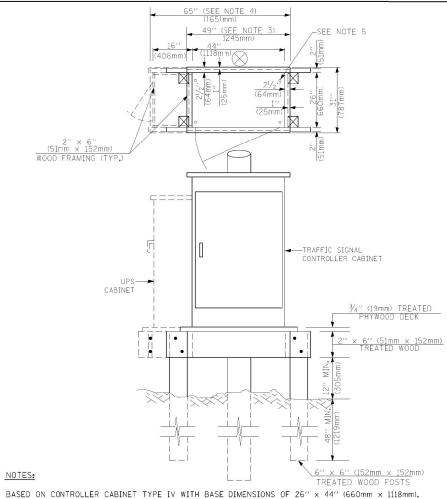
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

## HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = bauerdl	DESIGNED -	DAD	REVISED -		•	DISTRICT ONE	F.A.P.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\PWIDOT\3AUERDL\dØ108315\tsØ5	dgn	DRAWN -	ВСК	REVISED -	STATE OF ILLINOIS			338	2012-056TS	DuPAGE	32 12
	PLOT SCALE = 50.00000 '/ IN.	CHECKED -	DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT	T NO. 60V59
	PLOT DATE = 11/4/2009	DATE -	10-28-09	REVISED -		SCALE: NONE	SHEET NO. 4 OF 6 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. AID	PROJECT	







- 1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF  $26^{\prime\prime}$  x  $44^{\prime\prime}$  (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 <u>-</u> 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:

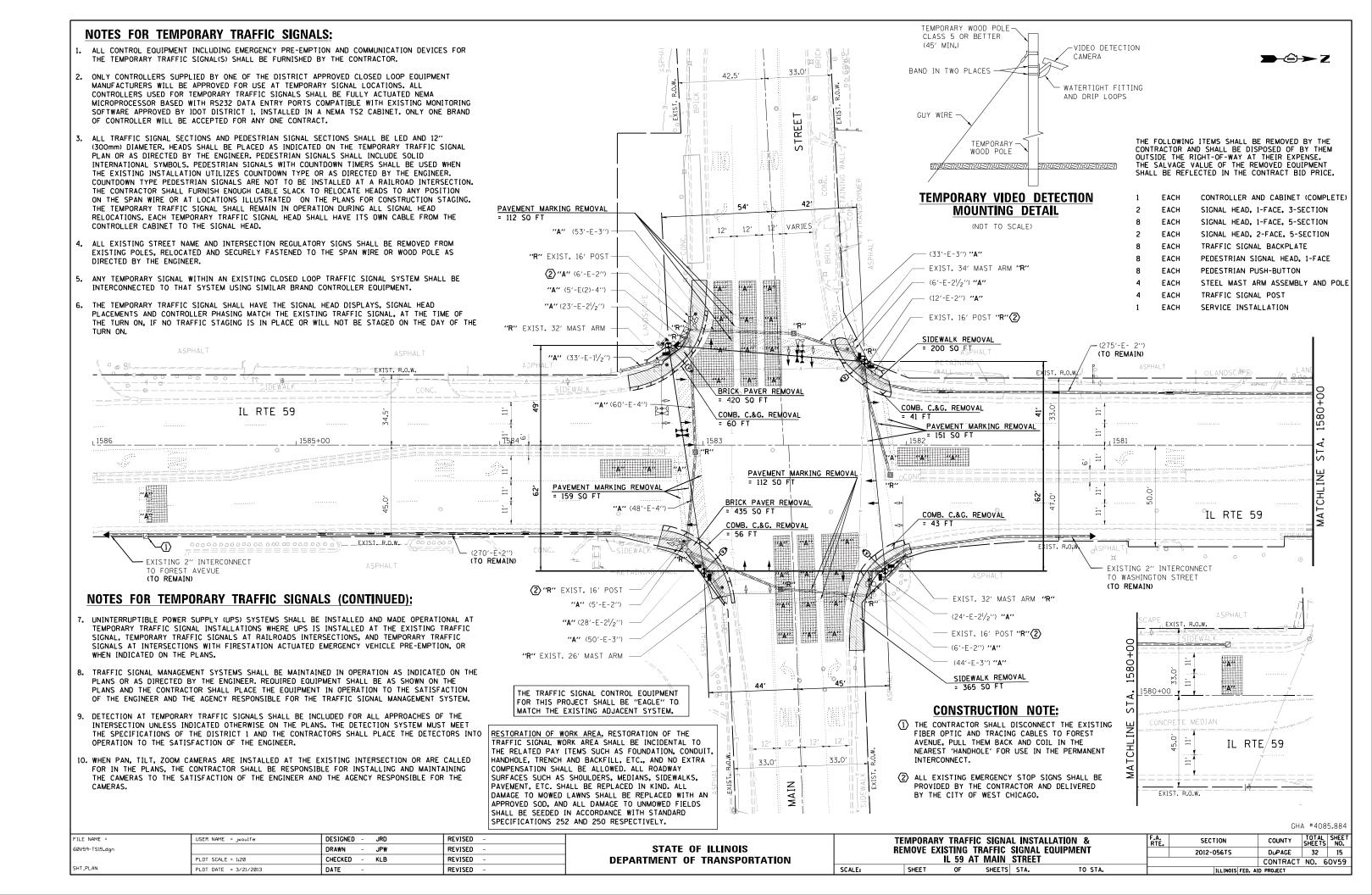
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
  the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa).
  This strength shall be verified by boring data prior to construction or with testing by the Engineer
  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 most arm assemblies with dual arms refer to state standard 878001.

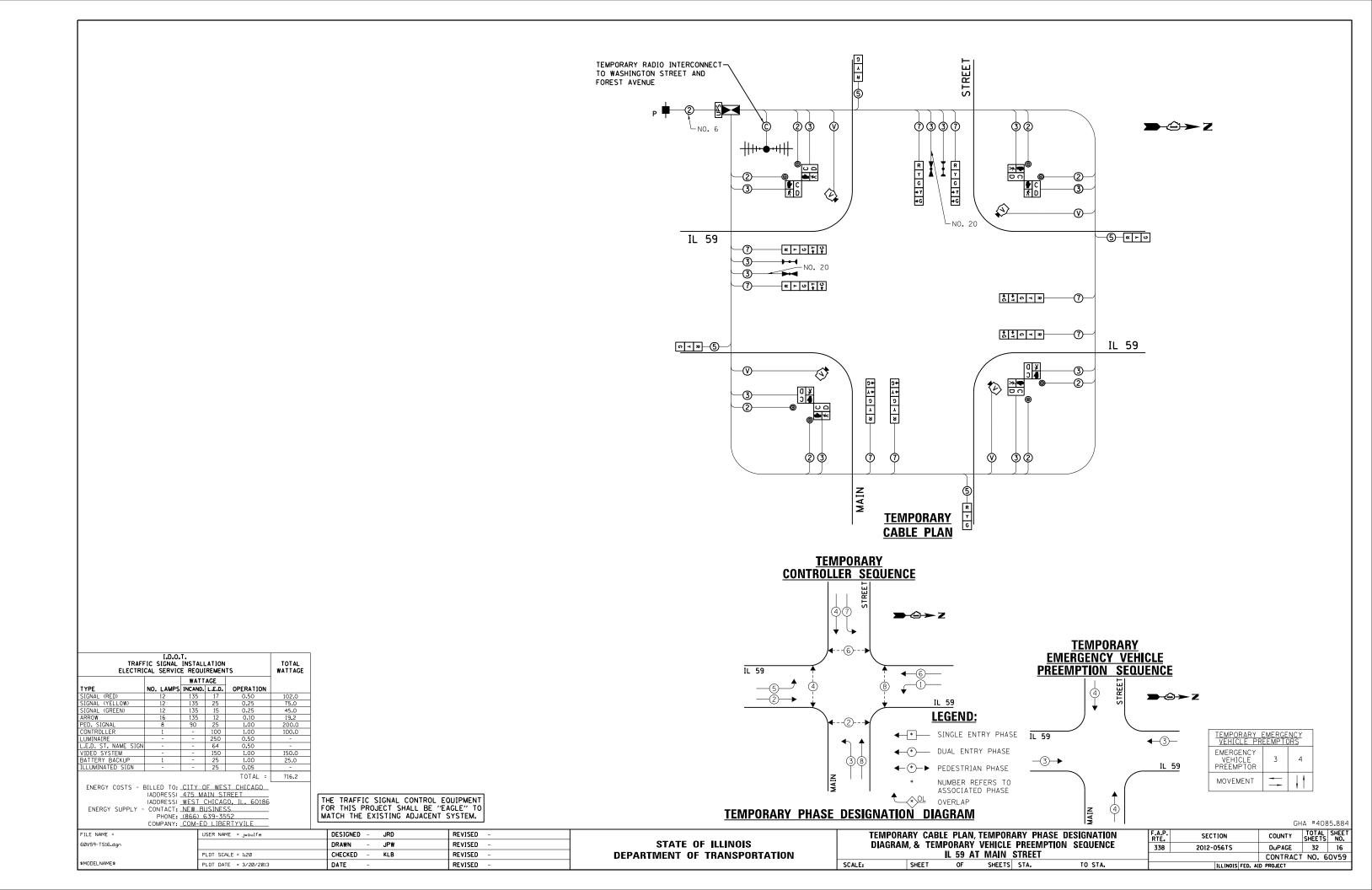
# DEPTH OF MAST ARM FOUNDATIONS, TYPE E

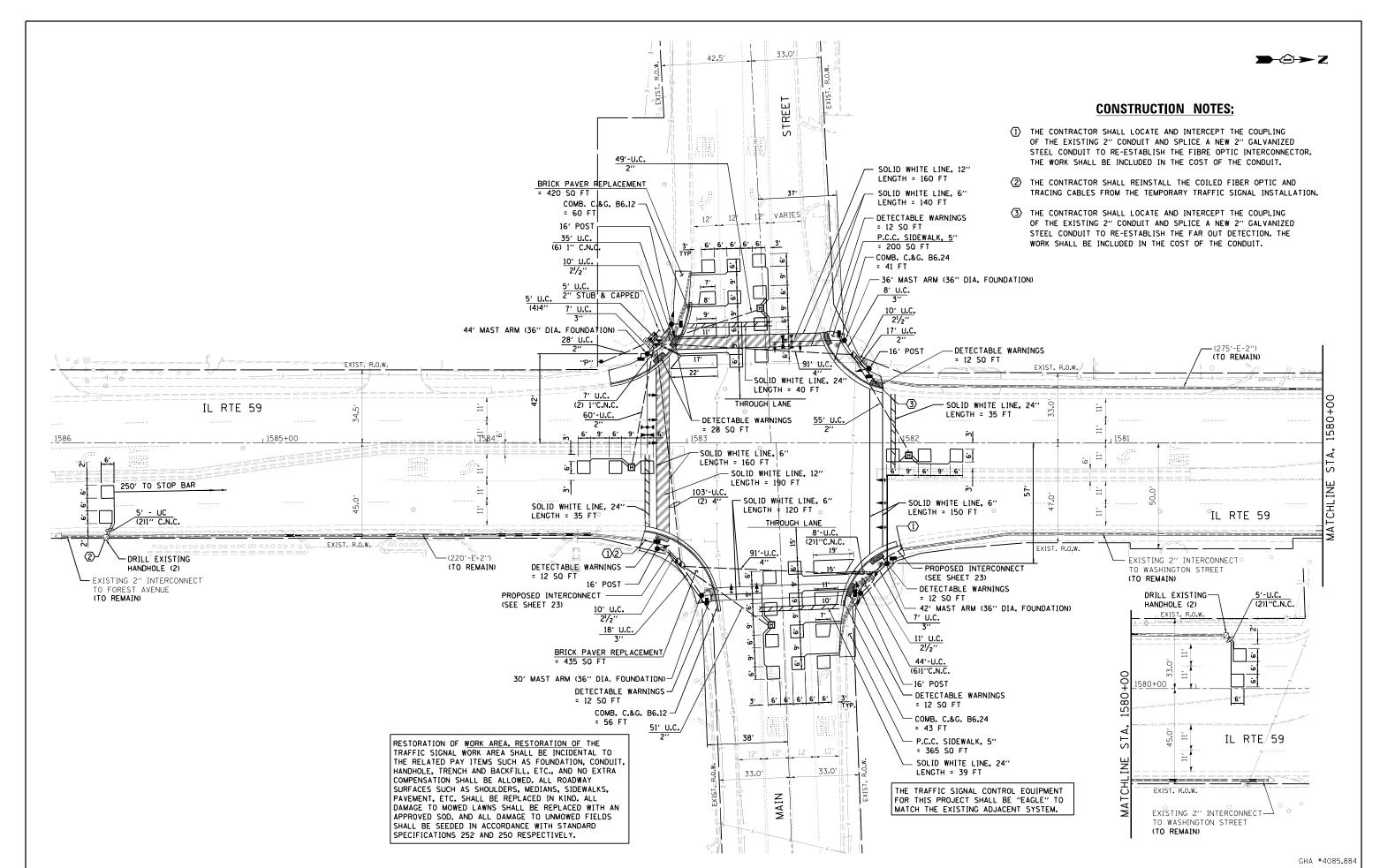
FILE NAME =	USER NAME = bauerdl	DESIGNED - DAG	REVISED -			DISTRICT ONE	F.A.P.	SECTION	COUNTY	TOTAL SH SHEETS	IEET NO.
c:\pw_work\PWIDOT\3AUERDL\d0108315\ts05	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			338	2012-056TS	DuPAGE	32	13
	PLOT SCALE = 50.00000 '/ IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT	T NO. 60V	/59
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 6 SHEETS STA. TO STA.	FED. ROAL	D DIST. NO. 1 ILLINOIS FED.	. AID PROJECT		

# TRAFFIC SIGNAL LEGEND

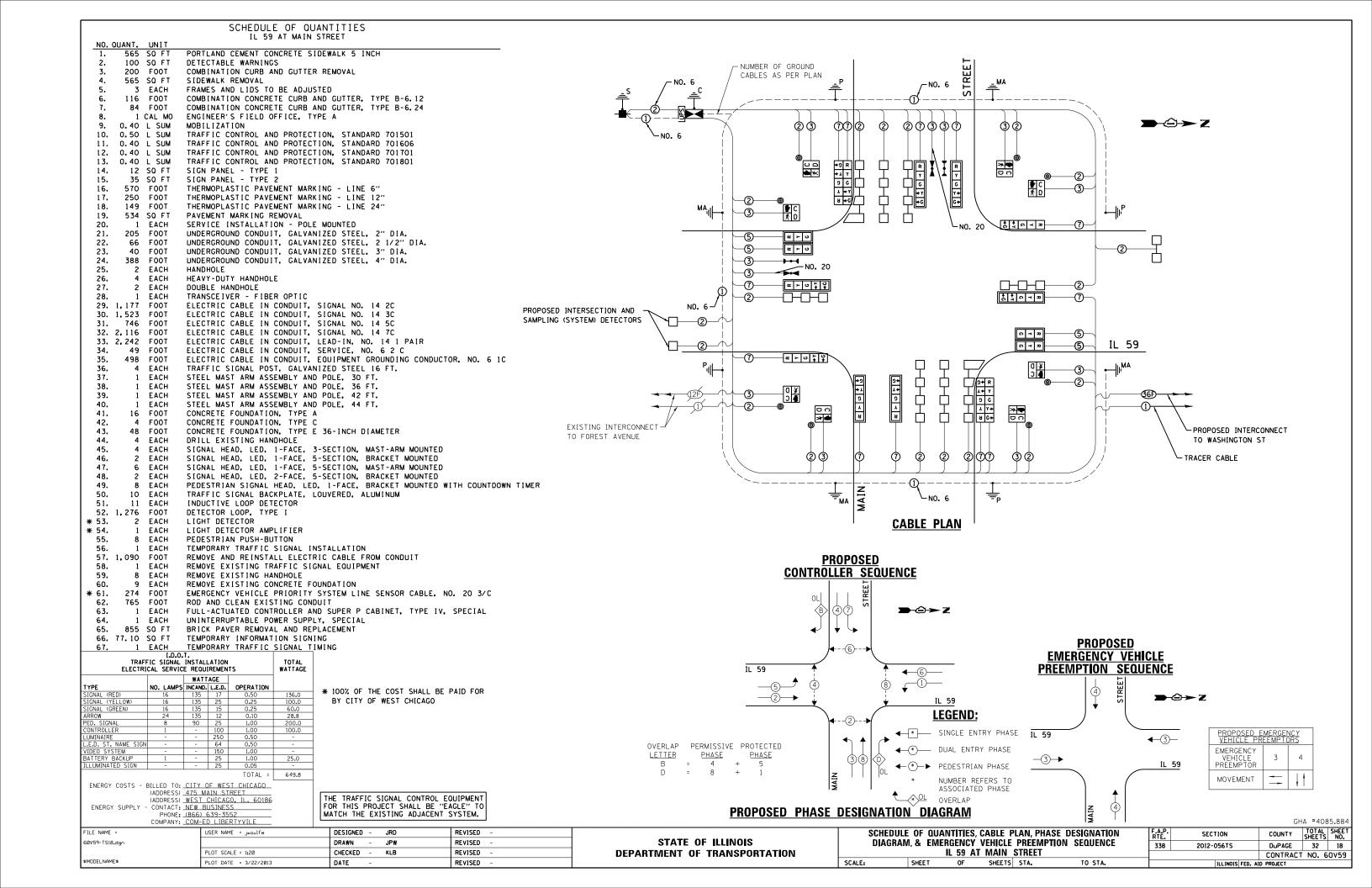
1150	DEMONIT	EVICE	DDCBCCT-	1750	PELIO:::	FWET	DD00005	177.4	DELICITIO	E)/YOTY:-	PROPOSES
<u>ITEM</u>	REMOVAL_	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL R	EXISTING	PROPOSED	ITEM  ELECTRIC CABLE IN CONDUIT, TRACER,	REMOVAL	<u>EXISTING</u>	PROPOSED
CONTROLLER CABINET	⊠ <sup>K</sup>			EMERGENCY VEHICLE LIGHT DETECTOR	≪  Ro-(1	<b>≪</b>	<b>◄</b>	NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET  COMMUNICATIONS CABINET	R	R C C	<b>₽ -©</b>	CONFIRMATION BEACON		o-()	•-1	COAXIAL CABLE		<u> </u>	—c)—
MASTER CONTROLLER	CC	EMC	MC	HANDHOLE	R					,	
MASTER MASTER CONTROLLER		EMMC	MMC	HEAVY DUTY HANDHOLE	R	Н	H	VENDOR CABLE FOR CAMERA		—	
UNINTERRUPTIBLE POWER SUPPLY	UPS R	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		_6	
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	-D-R	- <u></u>	<b>-</b> ■P	JUNCTION BOX GALVANIZED STEEL CONDUIT	R		0	FIBER OPTIC CABLE NO. 62.5/125, MM12F		— <u>12</u> F—	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	D			FIBER OPTIC CABLE		<u>—24F</u> —	—24F)—
STEEL MAST ARM ASSEMBLY AND POLE	R O	0	•	AND CABLE				NO. 62.5/125, MM12F SM12F		/	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		<del></del>	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R <sub>O→X</sub>	0-)\$(	• <del>×</del> —	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS)  GROUND ROD AT (C) CONTROLLER,			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	RQ	Q	PIZ	SYSTEM ITEM  INTERSECTION ITEM		S	S IP	(H) HANDHOLE, (P) FOST, (M) MAST ARM, OR (S) SERVICE		°C ∥ ├──	c <sub>II</sub>
SIGNAL POST	R	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R ⊗	8	<b>∞</b>	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED			
BETTER) 45 FOOT (13.7m) MINIMUM	R	>		ABANDON ITEM	А		R	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
GUY WIRE SIGNAL HEAD	R -		<b>&gt;</b> -	12" (300mm) TRAFFIC SIGNAL SECTION		R	K	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL HEAD CONSTRUCTION STAGES	>		2	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		(R)		STEEL COMBINATION MAST ARM ASSEMBLY			
(NUMBERS INDICATE THE CONSTRUCTION STAGE)			-				R	AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF O-X		
SIGNAL HEAD WITH BACKPLATE	+L>R	+1>	+				Y				
SIGNAL HEAD OPTICALLY PROGRAMMED	R →⊃′′P′′	—[>″P″	<b>-▶</b> "P"	SIGNAL FACE		G	G <b>∢</b> Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF O		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O-D-″F″	O-I⊃"F"	<b>●→</b> "F"			•	₫G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			IS
PEDESTRIAN SIGNAL HEAD	R -	9=	-1			R	R	SAMPLING (SYSTEM) DETECTOR		S	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	<b>©</b>	•	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			Y G ◀Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT(	OR .	[P]	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	APS  APS  APS  APS  APS  APS  APS  A			<b>(</b> + <b>y</b> )	<b></b> G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		q - q	
ILLUMINATED SIGN	R		lacktriangle			"P"	"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	OR		
"NO LEFT TURN"			<u> </u>	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"		8		12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		[PS]	PS
DETECTOR LOOP, TYPE I				INTERNATIONAL SYMBOL, OUTLINED						<b>↓</b> — <b>'</b>	b—b
PREFORMED DETECTOR LOOP			P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		<b>()</b>	*	RAILROAD	SYMBO	DLS	
MICROWAVE VEHICLE SENSOR	R [M]	[M])	••• ••••	PEDESTRIAN SICNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER			<b>₽</b> C			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R [V]J	(V)	(V)	RADIO INTERCONNECT	III.R		##•	RAILROAD CONTROL CABINET		<u>r</u>	<u> </u>
VIDEO DETECTION ZONE	_				##**	1		RAILROAD CANTILEVER MAST ARM	Σ	KOX==X-X	X <del>OX X</del>
	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL	_	<del>X0</del> X	<b>X</b> ⊖ <b>X</b>
PAN, TILT, ZOOM CAMERA	PTZ)	PTZ)		DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		<del></del> 5	_5_	CROSSING GATE		X0X-	<b>X</b> ⊕ <b>X</b> ►
WIRELESS DETECTOR SENSOR	RW		W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		/		CROSSBUCK		<del>202</del>	<b>*</b>
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		(1)	1	Chossbook		~ U^	
FILE NAME = USER NAME = bauerdl c:\pw_work\PWIDOT\3AUERDL\d0108315\ta05\dgn PLOT SCALE = 50.0000 '.	DF	ESIGNED - DAG/BCK RAWN - BCK HECKED - DAD	REVISED REVISED REVISED	STAT DEPARTMENT	E OF ILLINOI			DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 338	SECTION 2012-056TS TS-05	COUNTY TOTAL SHEET NO.  DuPAGE 32 14  CONTRACT NO. 60V59
PLOT DATE = 11/4/2009		ATE - 10-28-09	REVISED	- DEL ATTIVITIES	J. 110 HIVI		SCALE: NO	NE SHEET NO. 6 OF 6 SHEETS STA. TO STA.	FED. ROA	D DIST. NO. 1   ILLINOIS   FEC	

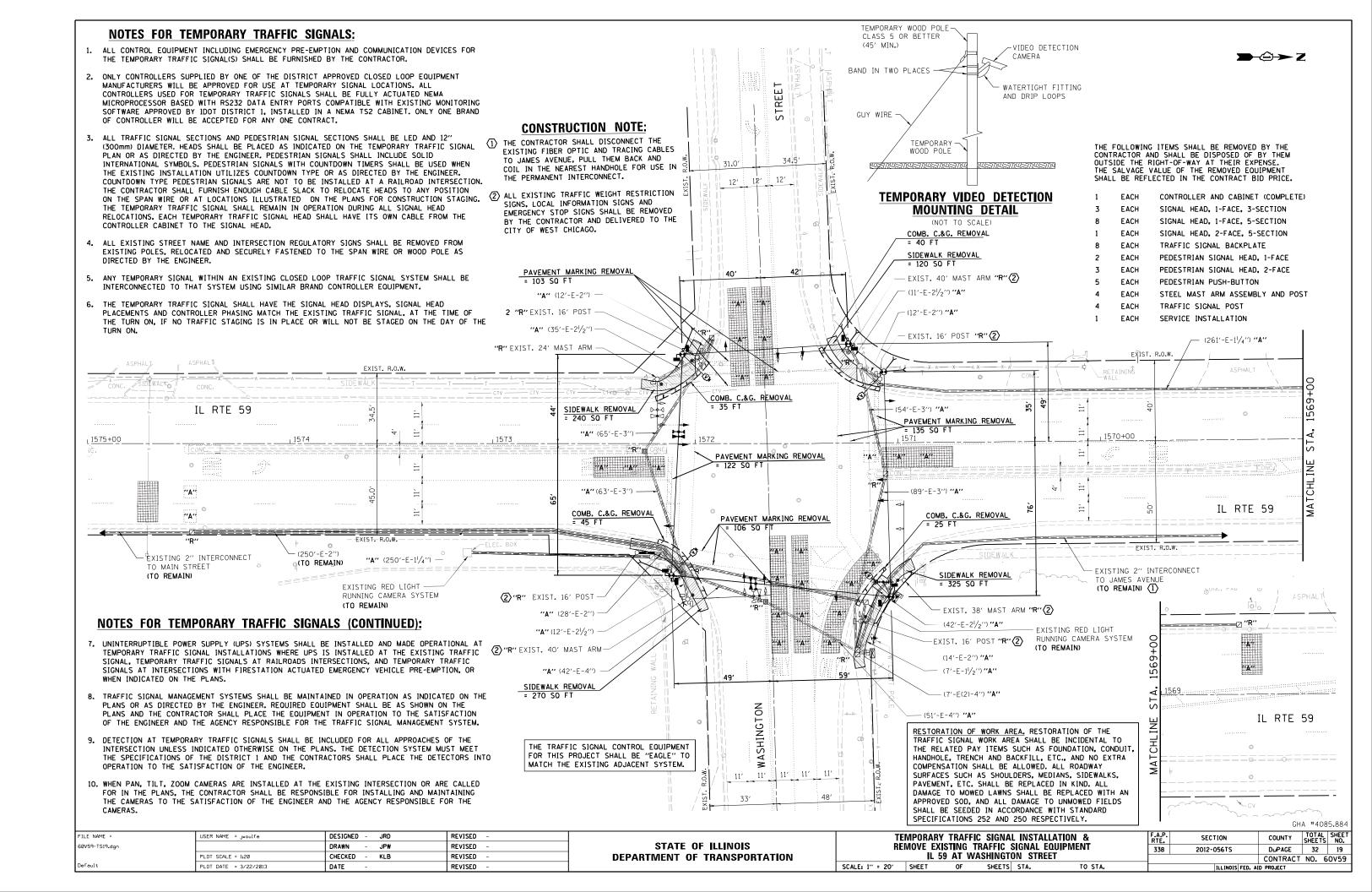


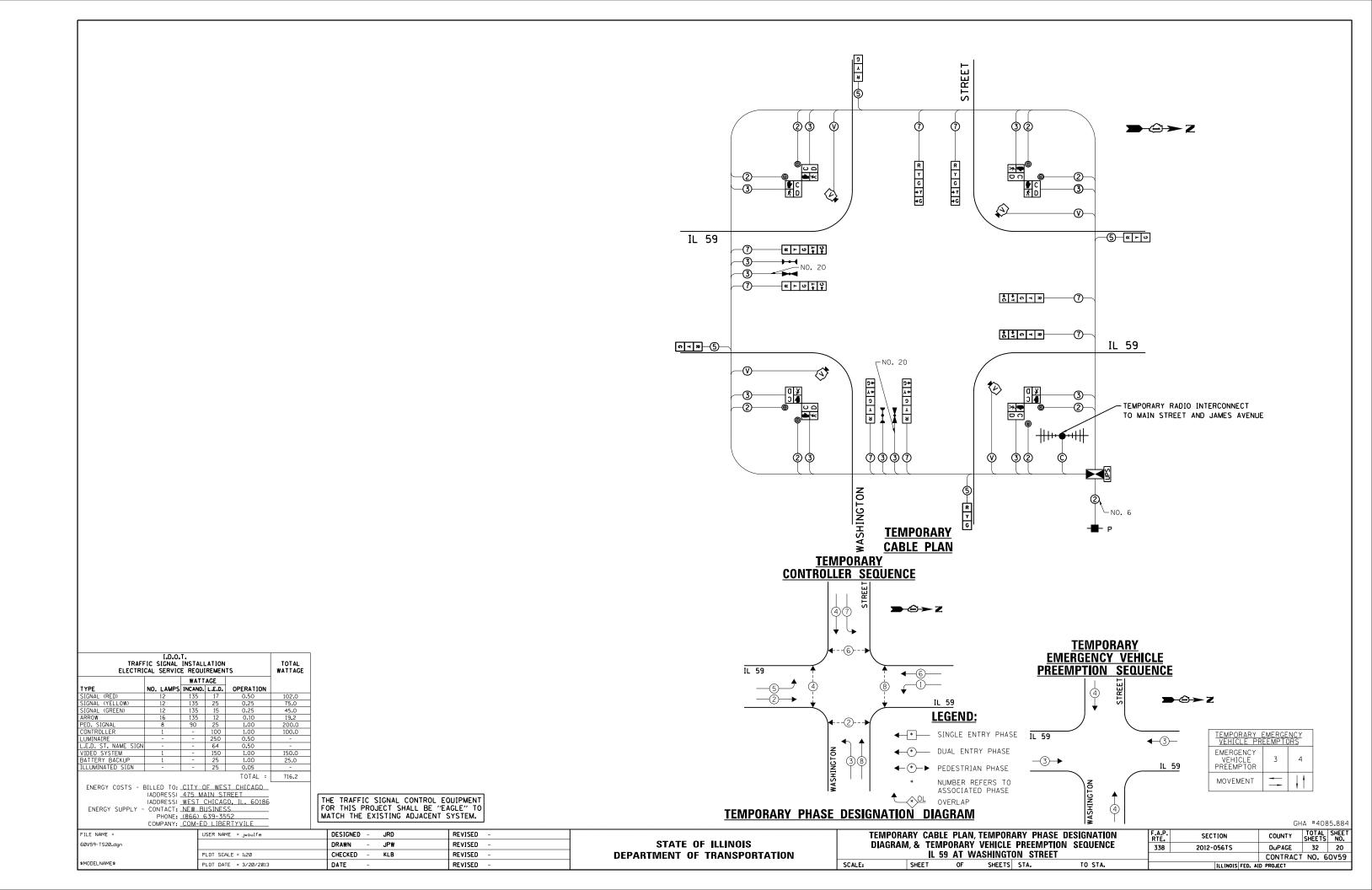


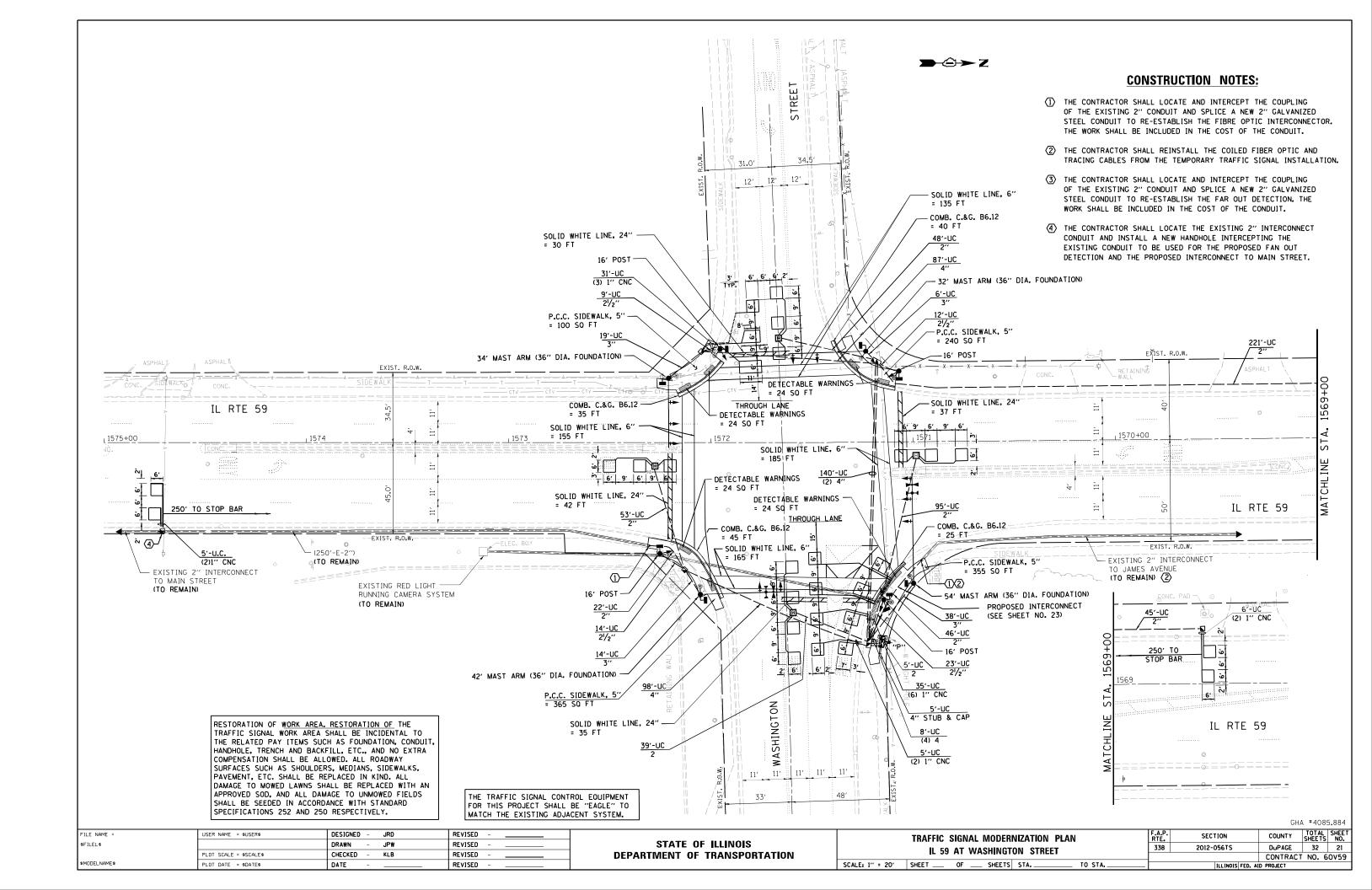


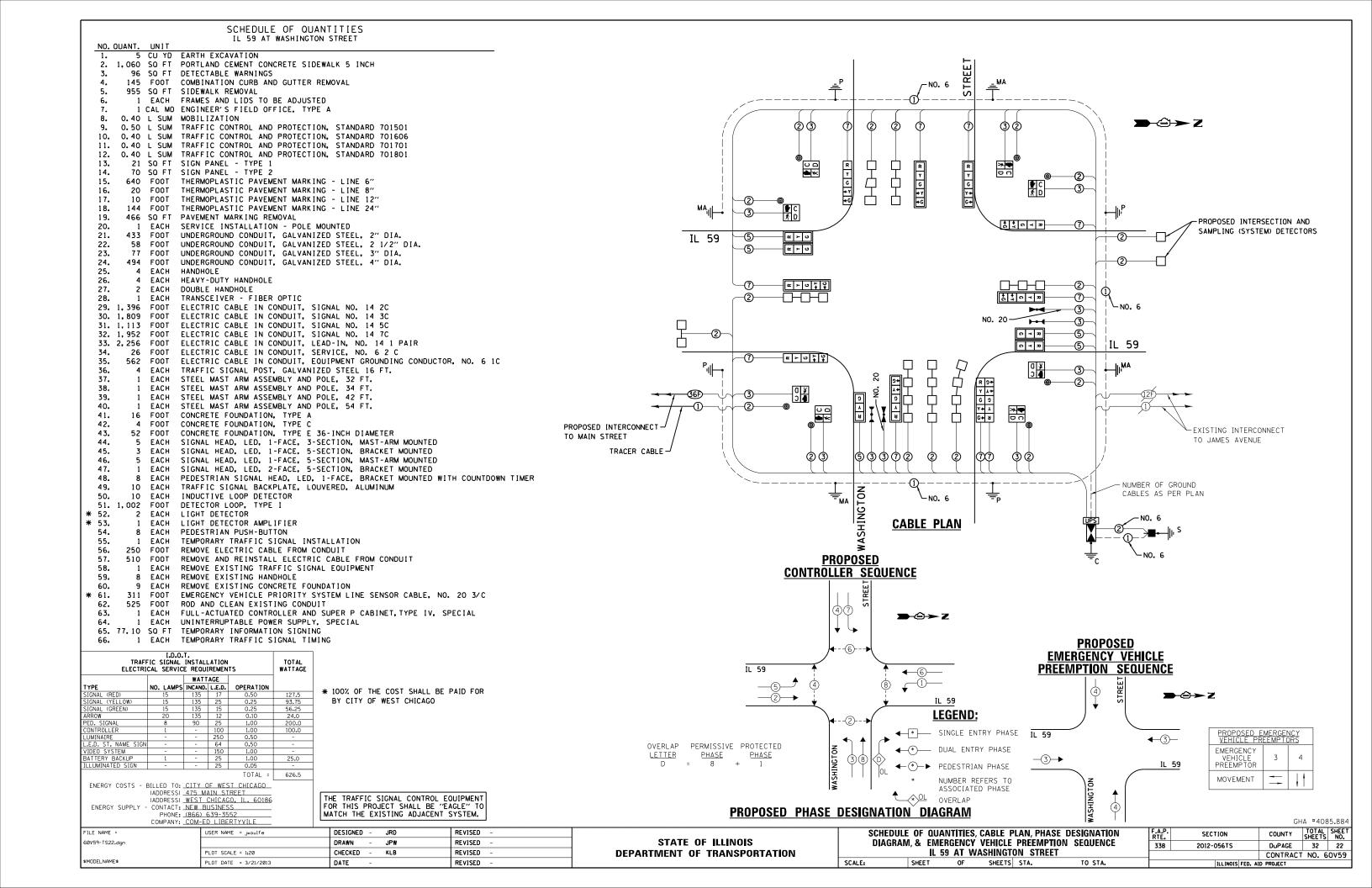
FILE NAME =	USER NAME = jwoulfe	DESIGNED - JRD	REVISED -		TRAFFIC SIGNAL MODERNIZATION PLAN	F.A.P.	SECTION	COUNTY	TOTAL		ĘΤ
60V59-TS17.dgn		DRAWN - JPW	REVISED -	STATE OF ILLINOIS		338	2012-056TS	DuPAGE	32	17	$\dot{-}$
	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 59 AT MAIN STREET		10.12 0.10 1.0	CONTRAC	T NO.	60V5	9
\$MODELNAME\$	PLOT DATE = 3/11/2013	DATE -	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT			_

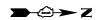


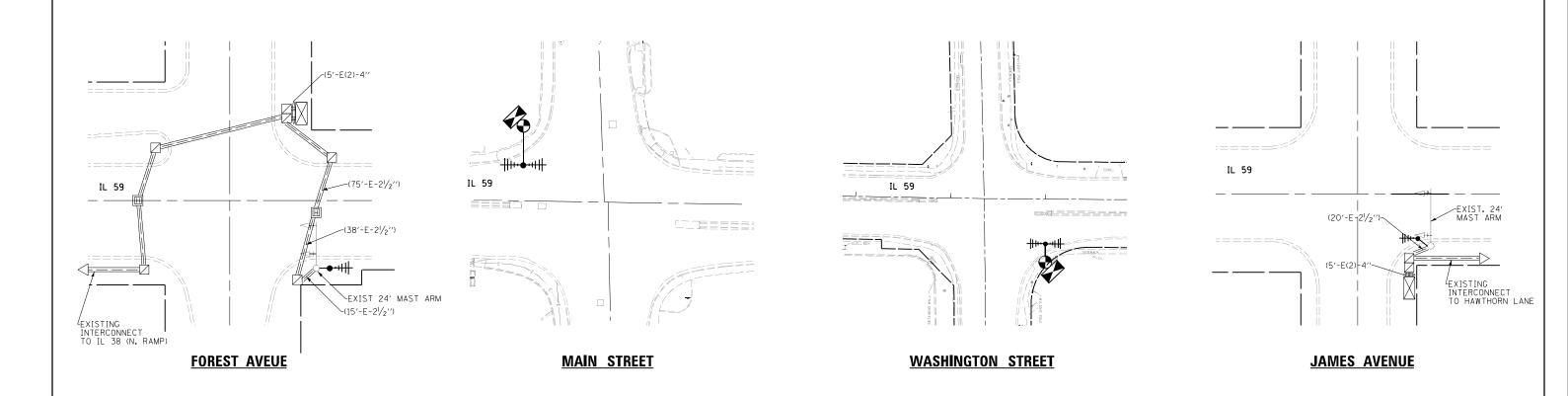


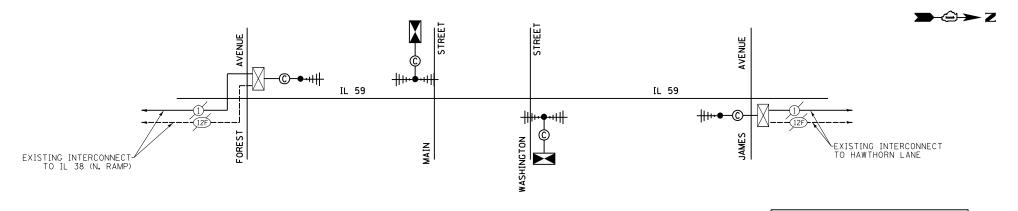






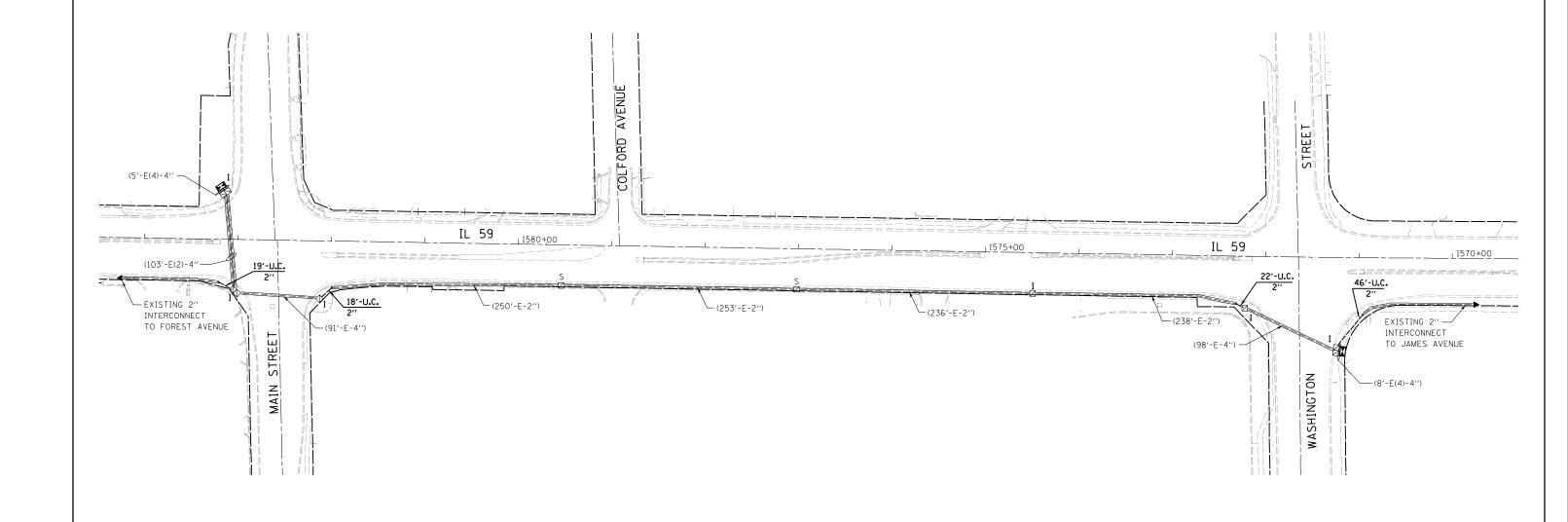






THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME =	USER NAME = jwoulfe	DESIGNED - JRD	REVISED -		т	EMPORARY	INTERCO	NNECT AND SCHE	MATIC PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET
60V59-TS23.dgn		DRAWN - JPW	REVISED -	STATE OF ILLINOIS	l -					338	2012-056TS	DuPAGE	32 23
	PLOT SCALE = 1:50	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION		IL 39 FRUIVI	LOKE21	T AVENUE TO JAM	ES AVENUE			CONTRACT	NO. 60V59
\$MODELNAME\$	PLOT DATE = 3/7/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	



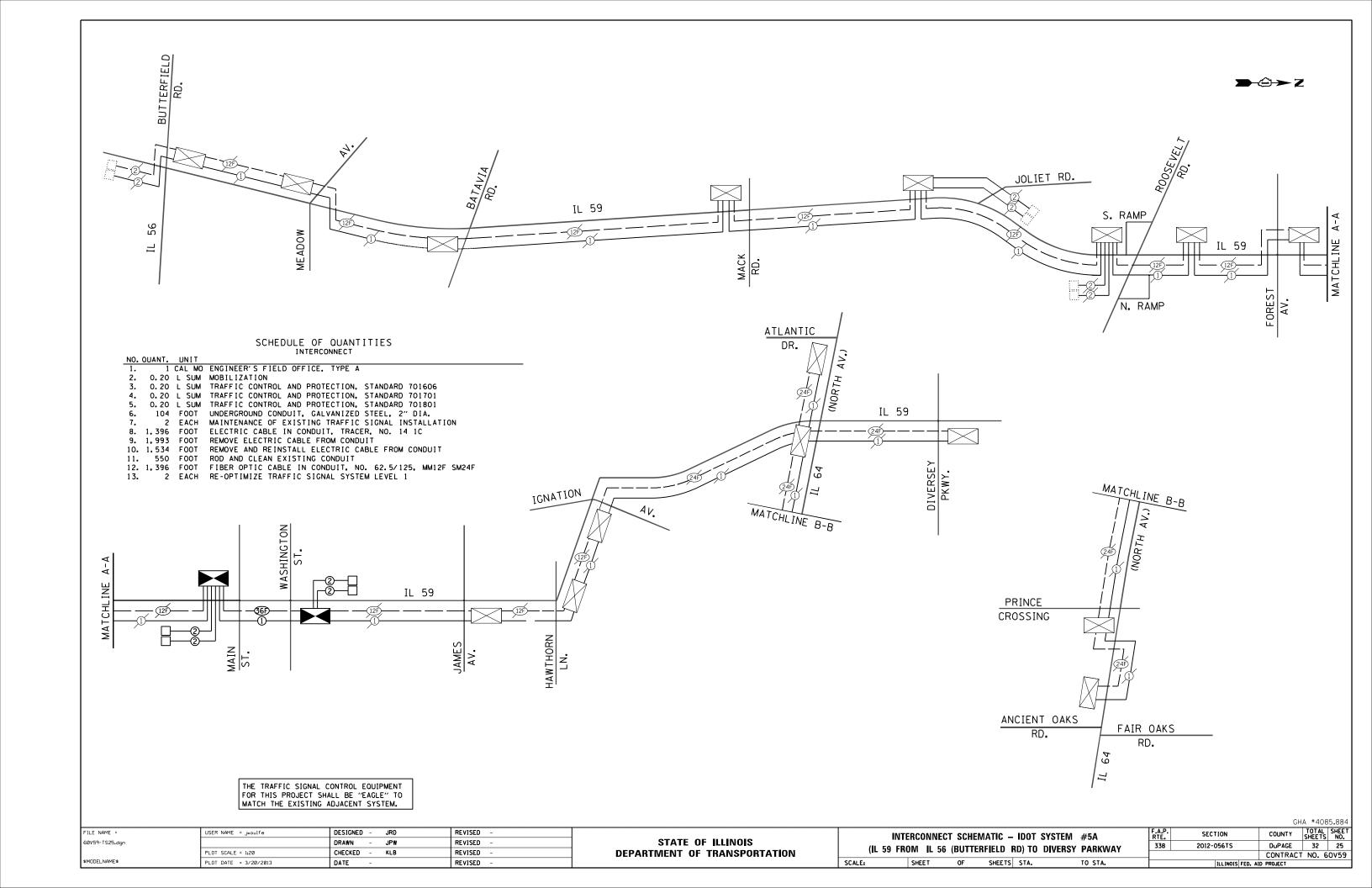
GHA #4085.884

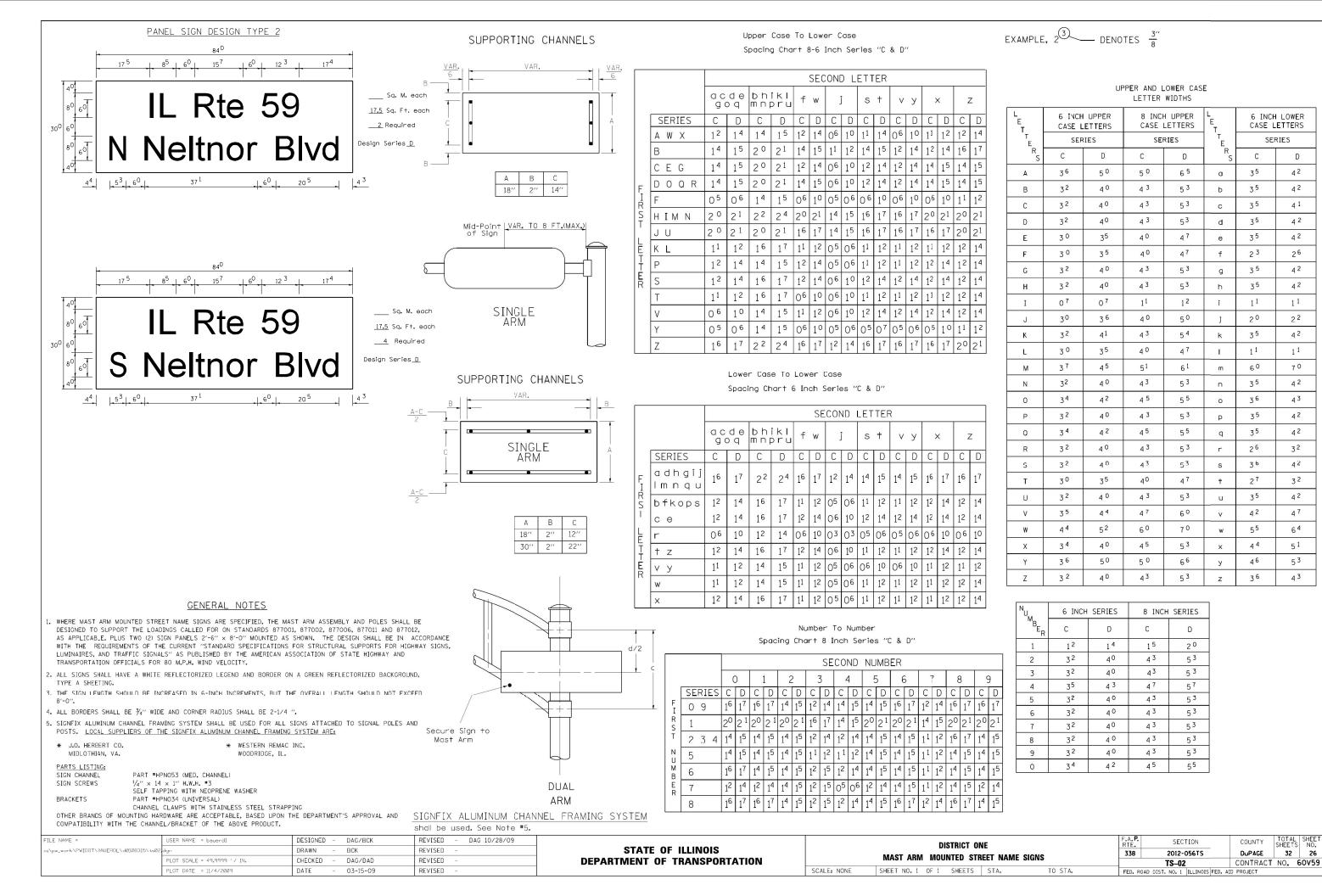
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

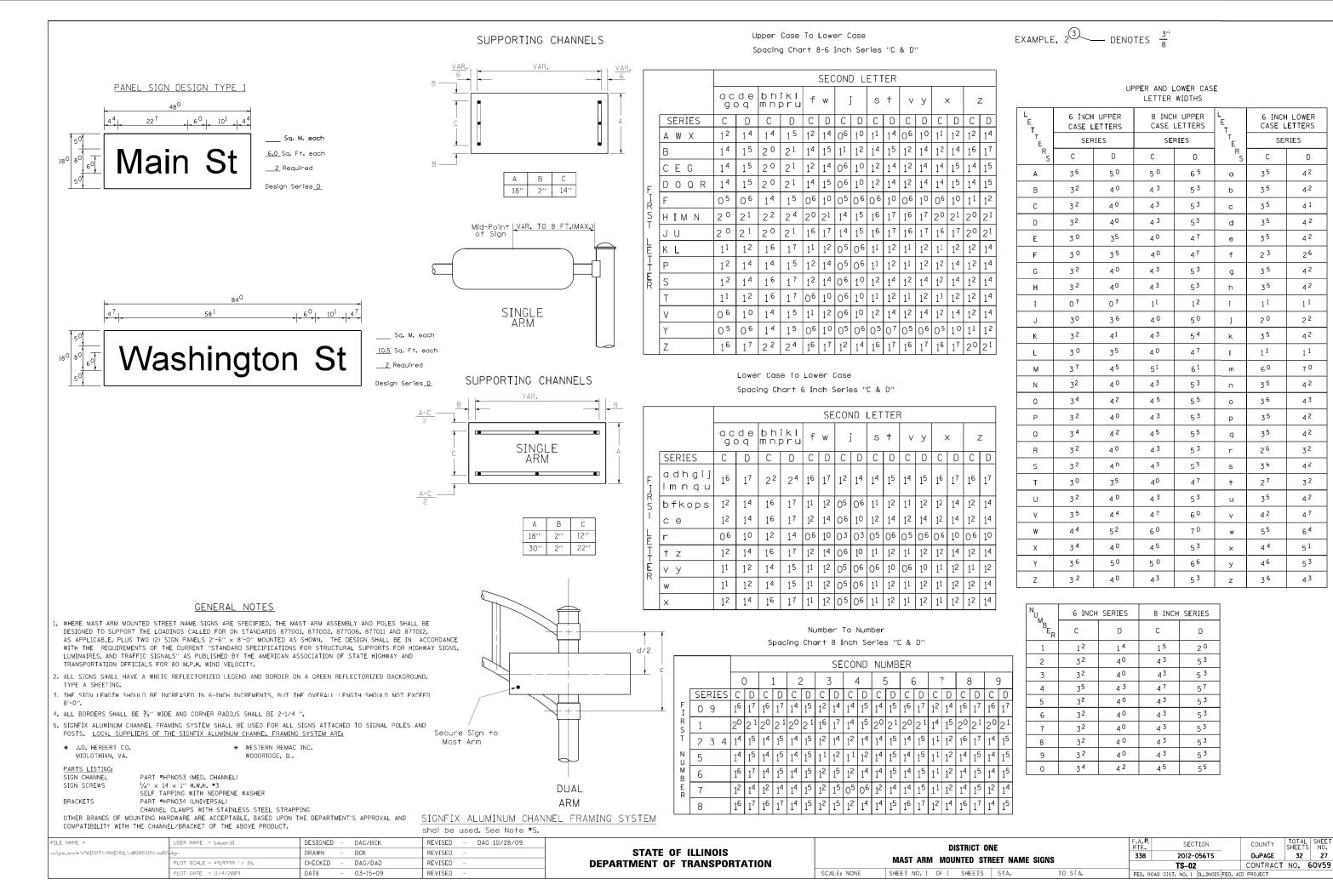
COUNTY TOTAL SHEET NO.

DUPAGE 32 24

CONTRACT NO. 60V59 F.A.P. RTE. 338 FILE NAME = USER NAME = jwoulfe DESIGNED - JRD REVISED -SECTION INTERCONNECT PLAN - IL 59 60V59-TS24.dgn STATE OF ILLINOIS DRAWN - JPW REVISED 2012-056TS FROM MAIN STREET TO WASHINGTON STREET **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 1:50 CHECKED - KLB REVISED PLOT DATE = 3/11/2013 REVISED SCALE: 1" = 50' SHEET OF SHEETS STA. DATE





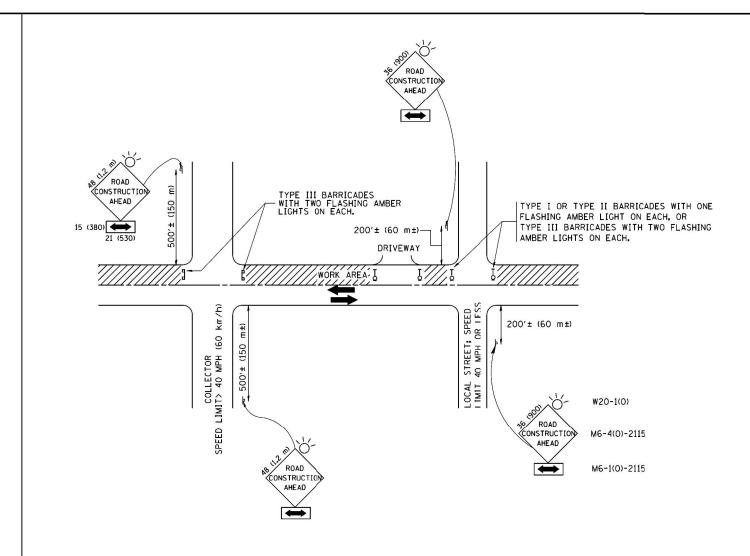


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1 1

32 27



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:
- O) 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  $\times$  48 (1,2 m  $\times$  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.
- WHEN THE SIDE ROAD LIES BETWEEN THE BECINNING 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.

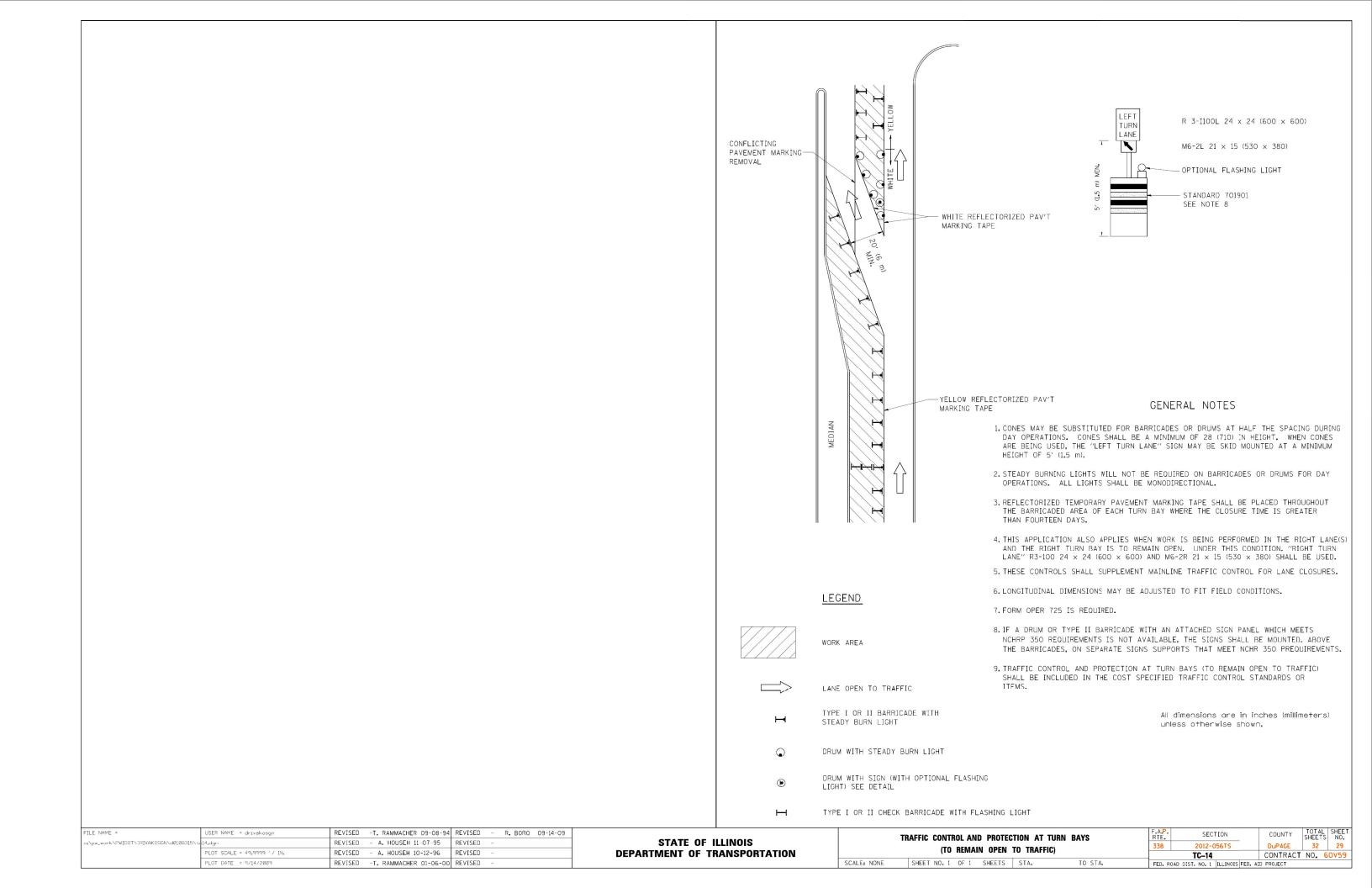
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
Wi\diststd\22×34\tc10.dgn		DRAWN -	REVISED - A. HOUSEH 03-C6-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

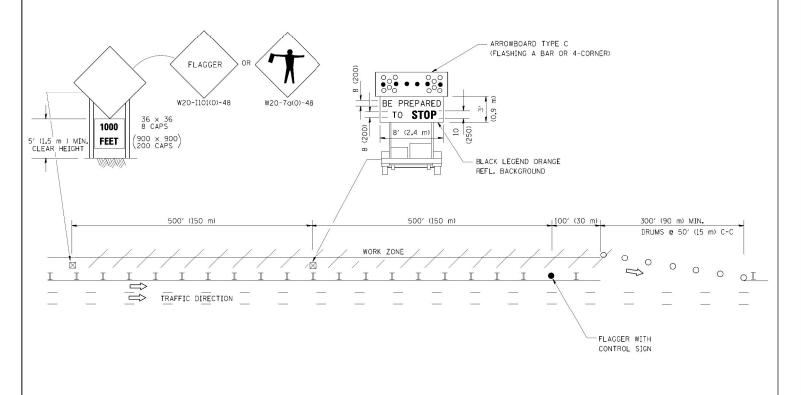
STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

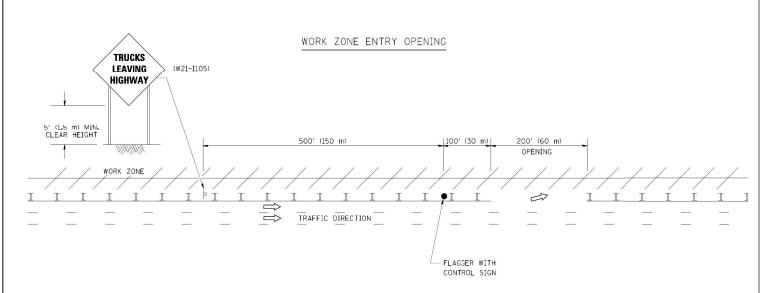
	TRAFFIC CONTROL AND P	F.A.P. RTE.	SECTION	COUNTY	TOTAL			
	SIDE ROADS, INTERSECTIONS	338	2012-056TS	DuPAGE	32	28		
	SIDE NOADS, INTENSECTIONS		TC-10	CONTRACT	NO.	60V59		
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1  ILLINOIS FED. AID PROJECT								



## SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

#### WORK ZONE EXIT OPENING



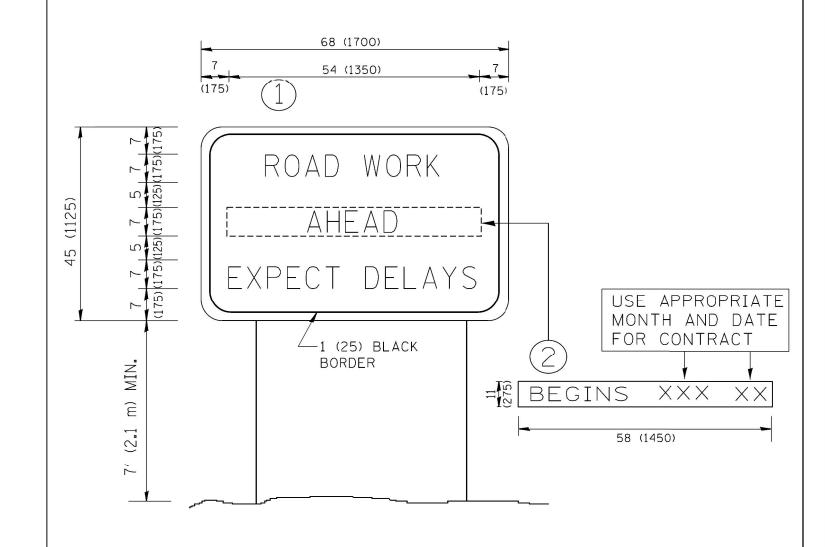


#### NOTES

- 1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
- 2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
- 3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
- 4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = leysa	DESIGNED -	REVISED - J.A.F. 04-03			SIGNING FOR FLAGGING OPERATIONS		RTF	SECTION	COUNTY	SHEETS N	ĘĘ I
W:\diststd\22x34\tc18.dgn		DRAWN -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS				338	2012-056TS	DuPAGE		30
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - S.P.B. 01-07	DEPARTMENT OF TRANSPORTATION		AT WORK ZONE OPENINGS			TC-18	CONTRACT	T NO. 60V	59
	PLOT DATE = 1/26/2010	DATE -	REVISED - S.P.B. 12-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO ST	TA.	FED. ROAD DI	IST. NO. 1 ILLINOIS FED	. AID PROJECT		

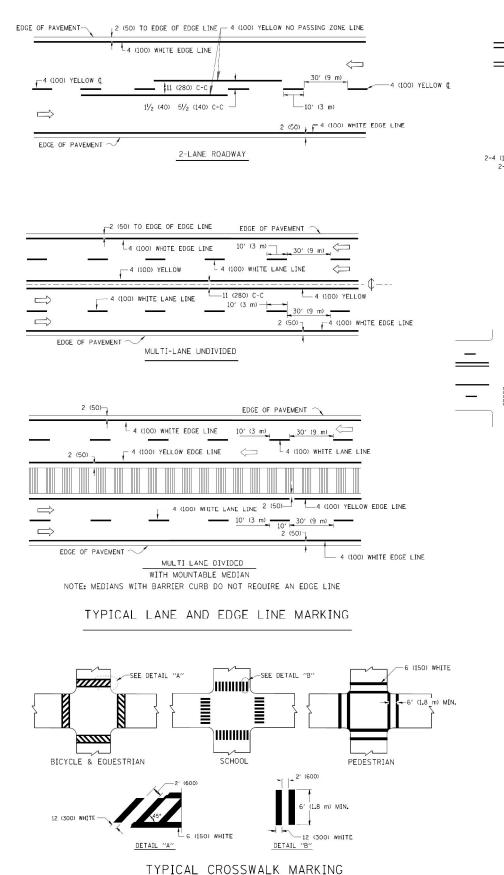


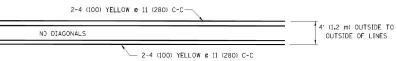
# NOTES:

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

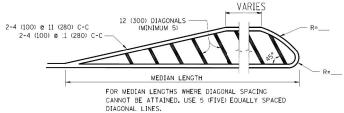
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	<u>.</u>		ARTERIAL ROAD		F.A.P.	SECTION	COUNTY	TOTAL	SHEET
Wi\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		ARTERIAL ROAD		338	2012-056TS	DuPAGE	32	NO.
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN		330	TC-22	CONTRAC	T NO. 6	JV59
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED, ROA	AD DIST. NO. 1 ILLINOIS FED	200000		-



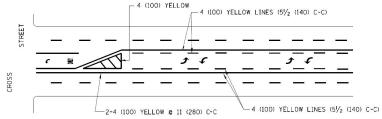


#### 4' (1.2 m) WIDE MEDIANS ONLY

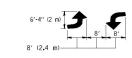


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

#### MEDIANS OVER 4' (1.2 m) WIDE

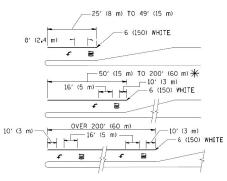


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

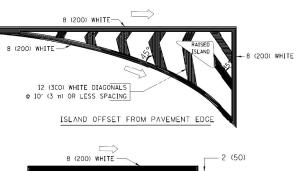
# TYPICAL PAINTED MEDIAN MARKING

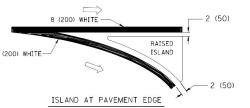


\*\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

#### TYPICAL TURN LANE MARKING





## TYPICAL ISLAND MARKING

			T	
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	5/ <sub>2</sub> (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; 5/2 (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 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (L2 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 @ 1 (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 _INES; "RR" IS 6' (1.8 m) _ETTERS; 16 (400) _INE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SO. FT. (5.0 m <sup>2</sup> )
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 DRIDGE 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			DISTRICT ONE	F.A.P.	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\drivakosgn\d0108315\t	cel3,dgn	DRAWN -	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS	No. 300 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990)(1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990)(1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990)(1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990)(1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (199		338	2012-056TS	DuPAGE 32 32
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS			TC-13	CONTRACT NO. 60V59
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			D DIST. NO. 1 ILLINOIS FE	ED. AID PROJECT