STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** PLANS FOR

PROPOSED FEDERAL-AID HIGHWAY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.P. 352 (SHERIDAN ROAD / GENESEE STREET / IL 137) DR. MARTIN LUTHER KING, JR. DRIVE (F.A.U. 1230) TO BELVIDERE ROAD (F.A.U. 1225) TRAFFIC SIGNAL IMPROVEMENTS & INTERCONNECT **SECTION 09-00169-00-TL**

PROJECT NO: CMM-9003(348)

CITY OF NORTH CHICAGO

CITY OF WAUKEGAN LAKE COUNTY

C-91-662-09

SHIELDS AND WAUKEGAN TOWNSHIPS

GROSS AND NET LENGTH OF PROJECT = 14,000 FT = 2.65 MI.

LOCATION MAP

1" = 2,000"

CASIMER PULASKI

WAUKEGAN TWP



BEGIN PROJECT STA. 323 + 70

END PROJECT

STA. 114 + 50

LOCATION OF SECTION INDICATED THUS: - -

09-00169-00-TL

LAKE

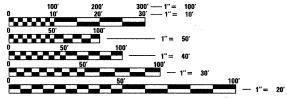
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ENGINEER OF LOCAL ROAD & STREETS APRIL 14, 2011 Dian M. O'Karfe ga

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

THESE IMPROVEMENTS ARE LOCATED WITHIN THE CITIES OF NORTH CHICAGO AND OF WAUKEGAN

TRAFFIC DATA

SHERIDAN ROAD 2009 ADT - 16,900 POSTED SPEED LIMIT - 35 MPH



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

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

Ciorba Group, Inc. REGISTRATION NUMBER 184-001016 CONSULTING ENGINEERS

SUITE 402, 5507 NORTH CUMBERLAND AVE CHICAGO, ILLINOIS 60656 :: (773) 775-4009

CONTRACT NO. 63592

INDEX OF SHEETS

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LIST OF HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15'(4.5M) TO 24"(600MM) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701501-06 URBAN LANE CLOSURE, 2L. 2W. UNDIVIDED
- 701502-04 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
- 701602-05 URBAN LANE CLOSURE, MULTILANE, 2W WITH EIDIRECTIONAL LEFT TURN LANE
- 701606-07 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-07 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 814001-02 HANDHOLES

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AS WELL AS:
- ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS ADOPTED JANUARY 1, 2007.
- ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (LATEST EDITION IN EFFECT ON THE DATE OF INVITATION FOR BIDS)
- NATIONAL ELECTRIC CODE, 2008 EDITION.
- ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING SANITARY SEWERS, STORM SEWERS, WATER MAINS, AND THEIR SERVICE LINES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE RESPECTIVE UTILITY COMPANIES FIELD-LOCATE ALL UTILITIES, ASCERTAIN THEIR STATUS AND ADJUST OF RELOCATE THESE LITELITIES. AS NECESSARY. PRIOR TO STARTING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE LITILITIES BEFORE STARTING CONSTRUCTION BY CONTACTING JULIJIE, AT 1-800-892-0123. BELSKI ELECTRIC (847)-417-0999 SHOULD ALSO BE CONTACTED INDIVIDUALLY AT THIS TIME.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE LITILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY LITILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR OWNER. THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- 4. THE MUNICIPALITIES' DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
 - CITY OF NORTH CHICAGO JOSH WHEELER, CITY ENGINEER (847)-596-8691
 - CITY OF WAUKEGAN RON LAUBACH, CITY ENGINEER (847)-625-6858
- 5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE ENGINEER BEFORE BEGINNING WORK AT ANY INTERSECTION.
- THE CONTRACTOR SHALL MAINTAIN A SET OF CONSTRUCTION RECORD DRAWINGS NOTING ALL CHANGES TO THE PLANS AND THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES ENCOUNTERED. A MYLAR REPRODUCIBLE AS-BUILT DRAWING AND TWO (2) PAPER SETS MUST BE SUBMITTED TO EACH DEPARTMENT OF PUBLIC WORKS FOR REVIEW AND APPROVAL UPON COMPLETION OF THE PROJECT. THIS WORK WILL BE CONSIDERED INCLUDED IN THIS
- ANY SIGN LOCATED IN THE PUBLIC RIGHT-OF-WAY WHICH INTERFERES WITH THE CONSTRUCTION OF THE PROPOSED INTERCONNECT SYSTEM SHALL BE REMOVED AND RE-ERECTED. ALL WORK INVOLVING SIGN REMOVAL AND RE-ERECTION SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:
 - A SIGN LOG SHALL BE CREATED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. A COPY SHALL BE GIVEN TO THE ENGINEER FOR REVIEW. UPON REVIEW BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY TO IDOT AND EACH MUNICIPALITY.
 - B. SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.
 - C. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO TRAFFIC FOR WHICH IT WAS INTENDED. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.
 - ALL SIGNS SHALL BE RE-ERECTED IN THE ORIGINAL LOCATION AS THE IMPROVEMENTS ARE COMPLETED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SIGNS DAMAGED BY HIS/HER CONSTRUCTION ACTIVITIES AND WILL REPLACE THEM AT NO COST TO THE MUNICIPALITY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT.
- F. STREET SIGNS TEMPORARILY RELOCATED DURING CONSTRUCTION MAY BE ATTACHED TO THE NEW STREET LIGHTS WITH THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR WILL CONFINE HIS OPERATIONS TO WITHIN THE AREAS DESIGNATED BY THE ENGINEER IN THE FIELD. DAMAGE TO PROPERTY OUTSIDE OF THESE LIMITS WILL BE RESTORED TO THE CONDITION THAT EXISTED PRIOR TO THE PROJECT AND SHALL BE INCLUDED IN THE CONTRACT. ANY AREAS WITHIN THE MUNICIPALITY RIGHT OF WAY SHALL BE REPLACED WITH SOD.
- 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SATISFACTORY DRAINAGE OF THE PROJECT SITE AND THOSE AREAS THAT PRESENTLY DRAIN THROUGH THE PROJECT SITE AT ALL TIMES DURING THE CONSTRUCTION PERIOD. THE COST OF PROVIDING, INSTALLING AND MAINTAINING THESE MEASURES SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ALL DRAINAGE STRUCTURES OF ALL DEBRIS ACCUMULATED DURING CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
- 12. NO CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE STORED IN OR MOVED THROUGH THE DRIPLINE OF ANY PARKWAY TREE. IF THIS CLEARANCE CANNOT BE MAINTAINED, THE ENGINEER MUST BE NOTIFIED PRIOR TO CONSTRUCTION.

- 13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO VERIFY EXISTING DIMENSIONS OR CONDITIONS.
- 14. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL CROSS WALK LOCATIONS. AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE IDOT STANDARD
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PAVEMENT OPENINGS. OPEN HOLES, EQUIPMENT AND RUBBLE LEFT IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL MAINTAIN HIGH VISIBILITY OF ALL TEMPORARY HAZARDS TO PEDESTRIANS AND MOTORISTS.
- 17. ALL PARKWAYS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE PROPERLY GRADED AND RECEIVE FOUR INCHES OF TOPSOIL AND SOD.
- 18. PLACEMENT OF TOPSOIL AND SOD SHALL BE COMPLETED WITHIN 10-15 DAYS AFTER THE COMPLETION OF CURB AND GUTTER, PAVING AND/OR DRIVEWAY REPLACEMENT OPERATIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 19. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE CITY.
- 20. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT, UNLESS INDICATED OTHERWISE.
- THE CONTRACTOR SHALL BE REQUIRED TO DISPOSE OF ALL SIDEWALKS, CURB AND GUTTER, PAVEMENT AND ALL OTHER MATERIALS EXCAVATED OR REMOVED DUE TO THE PROPOSED IMPROVEMENTS. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE WORK SITE ON THE DAY OF ITS EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE MADE FOR HAULING THESE MATERIALS OUTSIDE THE PROJECT LIMITS.
- 22. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO (2) HOURS FROM THE TIME OF NOTIFICATION.
- 23. SAW CUTTING OF PAVEMENTS, SHOULDERS, ETC., SHALL BE FULL DEPTH AND SHALL RESULT IN A CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE ITEM REMOVED.

SCALE:

SHERIDAN ROAD TRAFFIC SIGNAL IMPROVEMENTS & INTERCONNECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	2736	09-00169-00-TL	LAKE	35	2
			CONTRACT	NO. 6	3592
CONTE. CHEET NO 2 OF 3E CHEETC CTA TO CTA					

CODE#	DESCRIPTION	UNIT	TOTAL 0021	Sheridan at MLK Jr. Dr.	Sheridan at 18th	Sheridan at 16th	Sheridan at 14th	Sheridan at 10th	Genesee at South	Genesee at Amstutz	Genesee at Belvidere	Belvidere at Sheridan	Interconnect
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,885		45	90							1,750
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23		1	1		-					21
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23		1	1							21
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23		1	1		**					21
25200100	SODDING	SQ YD	1,885		45	90							1,750
25200200	SUPPLEMENTAL WATERING	UNIT	122		6	3							113
* 35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQYD	50										50
¥ 40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	14										14
¥ 40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	6										6
¥ 4230C400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	50								,		50
4240 0200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	3,215		935	1,330							950
¥ 42400800	DETECTABLE WARNINGS	SQFT	152		48	64							40
¥ 4400C200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	50										50
* 4400C500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	317		152	165							
* 44000600	SIDEWALK REMOVAL	SQFT	3,515		1,235	1,330							950
* 60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	317		152	165							
* 66900200	NON-SPECIAL WASTE DISPOSAL	CUYD	50										50
¥ 6690C450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1										1
★ 66900530	SOIL DISPOSAL ANALYSIS	EACH	10										10
6710C100	MOBILIZATION	L SUM	1								,		1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1										1
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1										1 .
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1										1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1										1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1										1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1										1
72000100	SIGN PANEL - TYPE 1	SQFT	51		21	30			****				A
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	155		100	55							
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2		1	1							
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	4,470										4,470
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	80		30	50							
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	95		30	65							
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	40		20	20							
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	8,150		605	615							6,930
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	75		75								
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	320		120	200							
81400100	HANDHOLE	EACH	30		4	5							21
81400300	DOUBLE HANDHOLE	EACH	2		1	1							
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	215		80	135							
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	7	1			1	1	1	1	1	1	
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2		1	1							
8570C500	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2				1	1					
86200120	UNINTERRUPTIBLE POWER SUPPLY	EACH	2		1	1		-		-			
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 141C	FOOT	15,000										15,000
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,500		600	900							-,

* = SPECIALTY ITEM

	Ciorba Group, Ind	С.
	CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 4	- 1
)	Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.40	014

USER NAME = ntumbev	DESIGNED	-	RJR	REVISED	-
	DRAWN	-	RJR	REVISED	
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PLOT DATE = 4/11/2011	DATE	~	03/22/2011	REVISED	

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	SHERIDAN RO	AD TRAFFIC SIGNAL IMPI	ROVEMENTS &	INTERCONNECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
		SUMMARY OF QU	ANTITIES		2736	09-00169-00-TL	LAKE	35	3
							CONTRACT	NO. 6	3592
	SCALE:	SHEET NO. 3 OF 35 SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. AT	D PROJECT		

		1301	2,000	000	1,100	200						
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 145C	FOOT	3,350	1,600	1,750							
87301405	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 16 1 PAIR	FOOT	1,260	380	880							
87301415	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 16 3 PAIR	FOOT	360	360								
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	210	110	100							
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,650	750	900							
87500600	TRAFFIC SIGNAL POST, 10 FT.	EACH	1	1								
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	6	2	4							
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	3	1	2							
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2	1	1							
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1								
87702840	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1		1							
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28	12	16							
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8	4	4							
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	70	30	40							
87900200	DRILL EXISTING HANDHOLE	EACH	10									10
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	14	6	8							
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5	2	3							
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	2	1							
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14	6	8							
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	14	6	8							
88600100	DETECTOR LOOP, TYPE 1	FOOT	555	230	325							
88800100	PEDESTRIAN PUSH-BUTTON	EACH	14	6	8							
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1							
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,950	2,500	1,450							
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1	1							
89502380	REMOVE EXISTING HANDHOLE	EACH	6	2	4							
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1								
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	15	7	8							
X0325462	MEDIA CONVERTER	EACH	1									1
X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQFT	300	300								
X8710029	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	15,276									15,276
XX003338	TEST HOLE	EACH	67	11	14							42
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	2		1	1						
XX006655	LAYER II (DATALINK) SWITCH	EACH	6	1	1	1	1	1	1			
XX008251	SPLICE FIBER IN CABINET	EACH	8							4	4	
XX008253	VIDEO ENCODER	EACH	2		1	1				-		
Z0030850	TEMPORARY INFORMATION SIGNING	SQFT	103									103
Z0033050	COAXIAL CABLE IN CONDUIT	FOOT	400		150	250						
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1									1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1									1
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	1	1							
Z0076600	TRAINEES	HOUR	500									500
x 8 7 3 0 8 0 0	ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4C	FOOT	400		150	250						

TOTAL Sheridan at MLK Jr. Dr.

UNIT

Sheridan at 16th Sheridan at 15th Sheridan at 15th Genesee at South

 Δ = CONSTRUCTION TYPE CODE 0042



USER NAME = ntumbev	DESIGNED	~	RJR	REVISED	-
•	DRAWN	-	RJR	REVISED	-
PLOT SCALE = 1.0000 '/ IN.	CHECKED	-	JMV	REVISED	=
PLOT DATE = 4/11/2011	DATE	-	03/22/2011	REVISED	*

CODE#

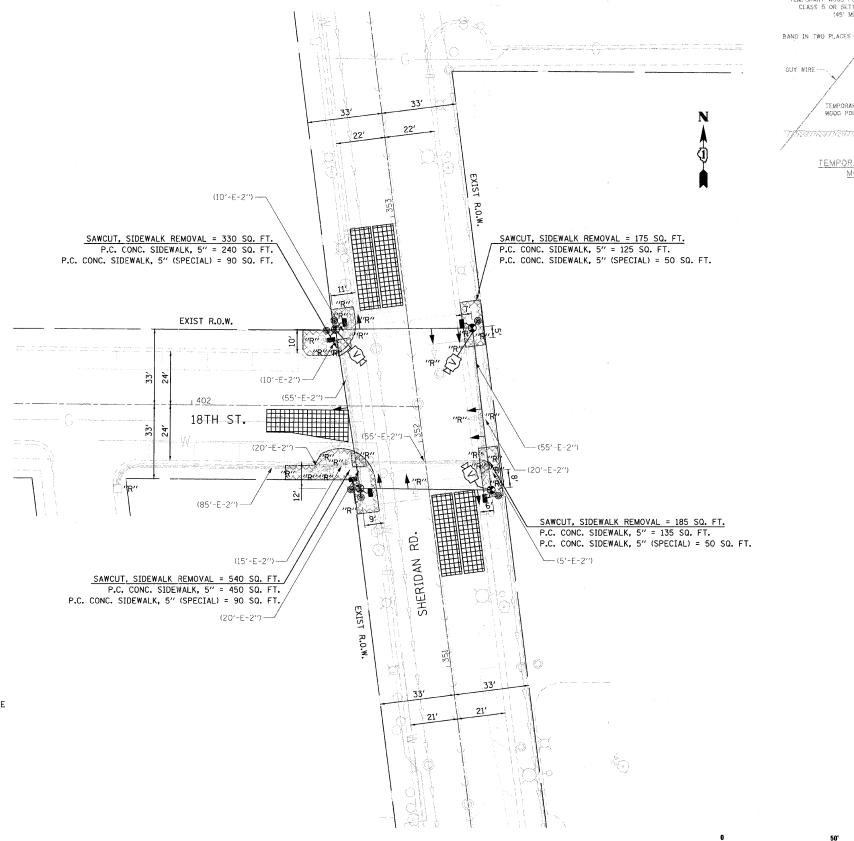
DESCRIPTION

87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C

SHERIDAN RO	AD TRAFFIC SIGNAL IMPF	ROVEMENTS &	INTERCONNECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	SUMMARY OF QU	ANTITIES		2736	09-00169-00-TL	LAKE	35	4
						CONTRACT	NO. 6	3592
SCALE:	SHEET NO. 4 OF 35 SHEETS	STA.	TO STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

TEMPORARY TRAFFIC SIGNAL NOTES

- 1. ALL CONTROL EQUIPMENT FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY
- 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE STATE APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
 INSTALLED IN A NEMA TSI OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL E INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE
- 7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT FAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATTION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- 8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OFERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- 9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. 1'HE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- 10. WHEN PAN, TILT, ZOOM, CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

SIGNAL HEAD, 1-FACE, 3-SECTION BRACKET MOUNTED

SIGNAL HEAD, 1-FACE, 3-SECTION MAST ARM MOUNTED 2 EACH

5 EACH TRAFFIC SIGNAL POST

2 EACH MAST ARM POLE

CONCRETE FOUNDATION 7 FACH

TRAFFIC SIGNAL BACKPLATE 2 EACH 1 EACH POLE MOUNTED ELECTRIC SERVICE

CONTROLLER AND CABINET (COMPLETE)

1 EACH CONTROLLER FOUNDATION

4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE

PEDESTRIAN SIGNAL HEAD, 2-FACE 1 FACH

HANDHOLE 2 EACH

1 EACH DOUBLE HANDHOLE

. 🗻	Ciorba Group, Inc.	USER NAME = ntumbev	DESIGNED	- '	RJR	REVISED	-
	CONSULTING ENGINEERS		DRAWN		RJR	REVISED	**
人ご	5507 North Cumberland Avenue, Suite 402	PLOT SCALE = 20.0000 '/ IN.	CHECKED	-	JMV	REVISED	-
	Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014	PLOT DATE = 4/11/2011	DATE	-	03/22/2011	REVISED	~

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	TRAFFIC SIGNAL IMP		k INTERCONNECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	FFIC SIGNAL INSTALL		REMOVAL PLAN	2736	09-00169-00-TL	LAKE	35	5
3	SHERIDAN ROAD AT	8TH STREET				CONTRACT	NO. 6	3592
SCALE: 1"=20' SHEE	T NO. 5 OF 35 SHEETS	STA.	TO STA.	FED. RO.	AD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

TEMPORARY WOOD POLE-

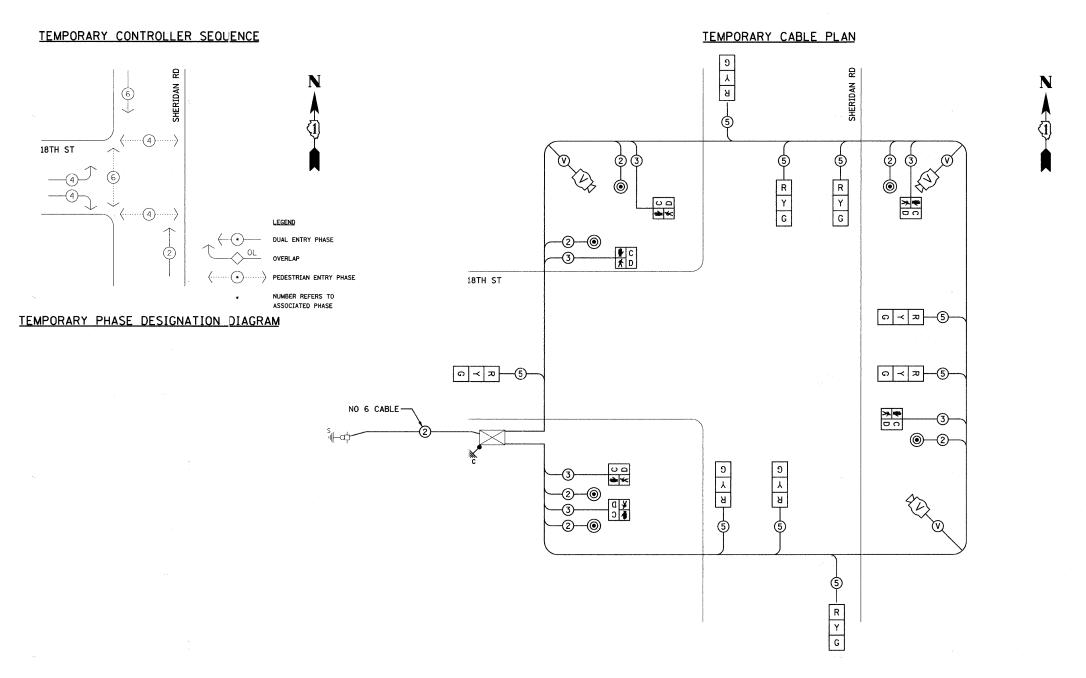
CHY WISE -

VIDEO DETECTION CAMERA

-- WATERTIGHT FITTINGS

TOBU TANKUT KNUT AFRE

TEMPORARY VIDEO DETECTION
MOUNTING DETAIL
INOT TO SCALE

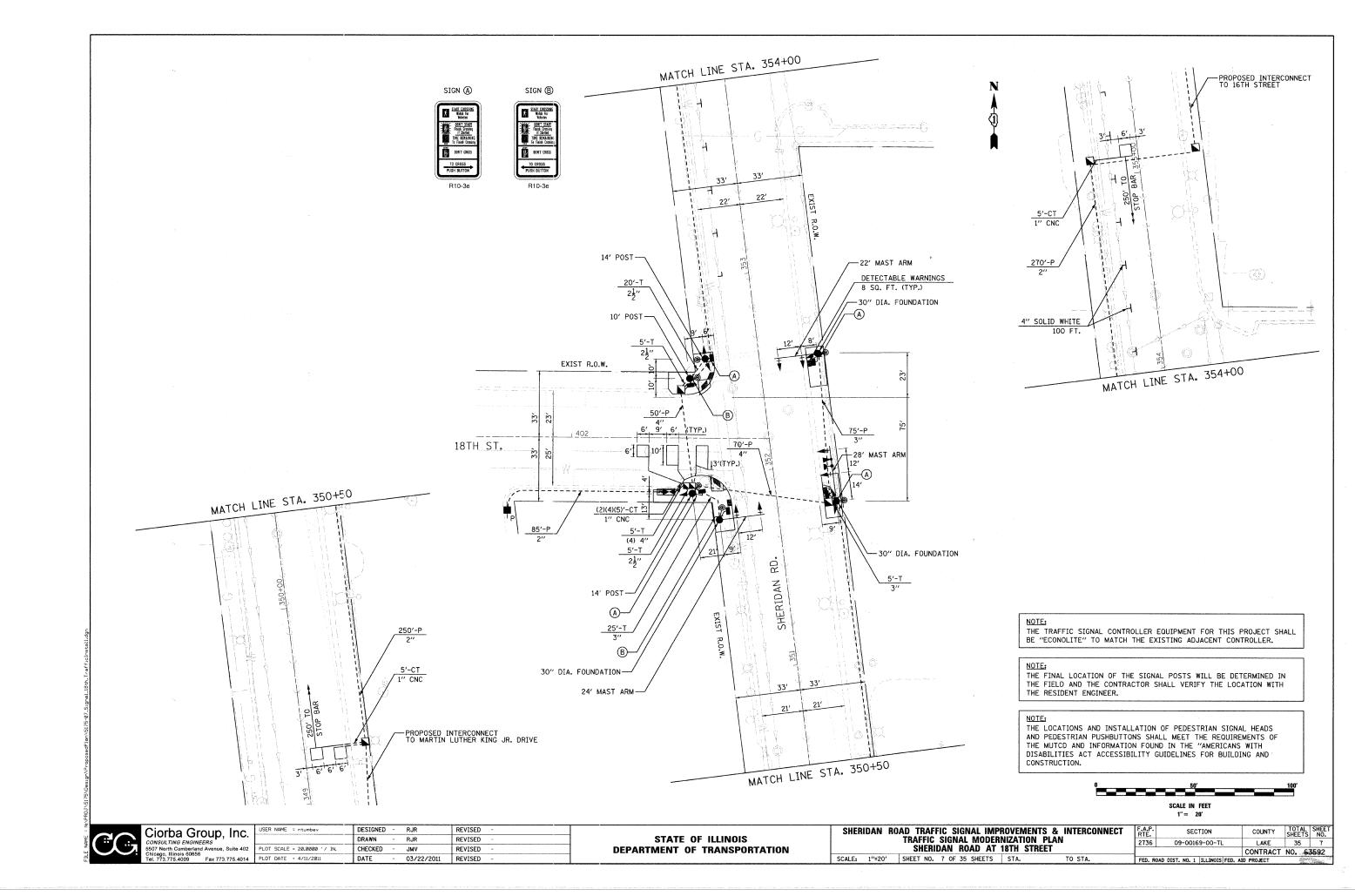


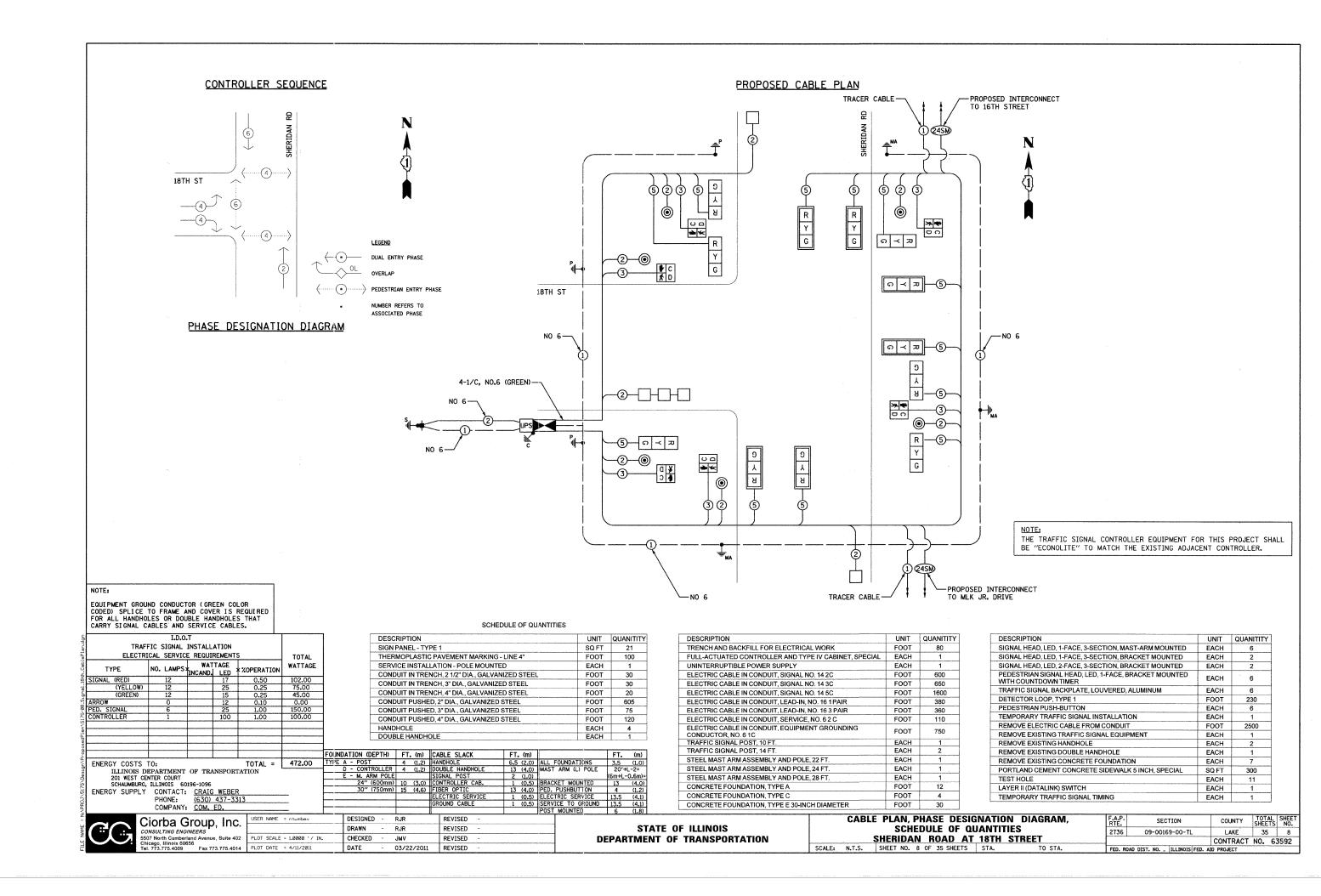
	I.D.O.	.T								
TRAFF	IC SIGNAL	INSTALL	ATION							
ELECTRI	CAL SERVICE	E REQUI	REMENTS	5	TOTAL					
TRAFF ELECTRI TYPE	NO. LAMPS	WAT	TAGE ,	%OPERATION	WATTAGE					
SIGNAL (RED)	0.50	76.50								
(YELLOW)	0.25	56,25								
(YELLOW) (GREEN)	(GREEN) 9 15 0.25									
ARROW PED SIGNAL	0		12 25	0.10	0.00					
I LD. SIGNAL	1.00	150.00								
CONTROLLER	1		100	1.00	100.00					
VIDEO SYSTEM	1		-	1.00	150.00					
72000 0701011										
ENERGY COSTS 1	го:			TOTAL =	566.50					
ENERGY COSTS TO: TOTAL = 5 ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096 ENERGY SUPPLY CONTACT: CRAIG WEBER										
ENERGY SUPPLY	CONTACT:	CRAIG	WEBER	}						
	_									
	COMPANY:		437-33 ED.		_					

Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60056 Tel. 773.775.4009 Fax 773.775.4014 DESIGNED - RJR REVISED REVISED PLOT SCALE = 1,0000 '/ IN. CHECKED - JMV REVISED - 03/22/2011 REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

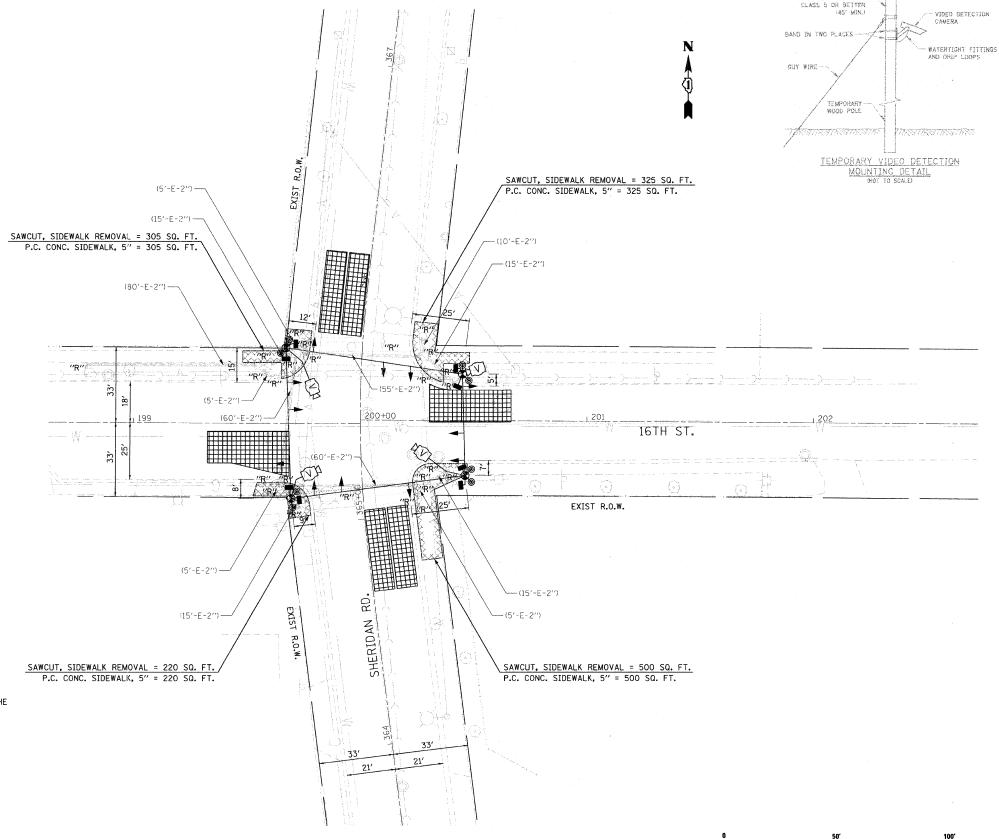
_					1			T	
	TEMPORARY	CABLE PLAN, PHASE		DIAGRAM,	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
		SCHEDULE OF QU			2736	09-00169-00-TL	LAKE	35	6
		SHERIDAN ROAD AT	18TH STREET				CONTRACT	NO. 6	3592
	SCALE: N.T.S.	SHEET NO. 6 OF 35 SHEETS	STA. TO	STA.	FED. RO	AD DIST. NO ILLINOIS FED. A			





TEMPORARY TRAFFIC SIGNAL NOTES

- 1. ALL CONTROL EQUIPMENT FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE STATE APPROVED CLCSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER
- 5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT FAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATTION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- 8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OFERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. 1'HE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- 10. WHEN PAN, TILT, ZOOM, CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

SIGNAL HEAD, 1-FACE, 3-SECTION BRACKET MOUNTED

SIGNAL HEAD, 1-FACE, 3-SECTION MAST ARM MOUNTED TRAFFIC SIGNAL POST 2 EACH

6 EACH

MAST ARM POLE 2 EACH

8 EACH CONCRETE FOUNDATION

2 EACH TRAFFIC SIGNAL BACKPLATE

1 FACH POLE MOUNTED ELECTRIC SERVICE 1 FACH CONTROLLER AND CABINET (COMPLETE)

CONTROLLER FOUNDATION 1 EACH

4 EACH HANDHOLE

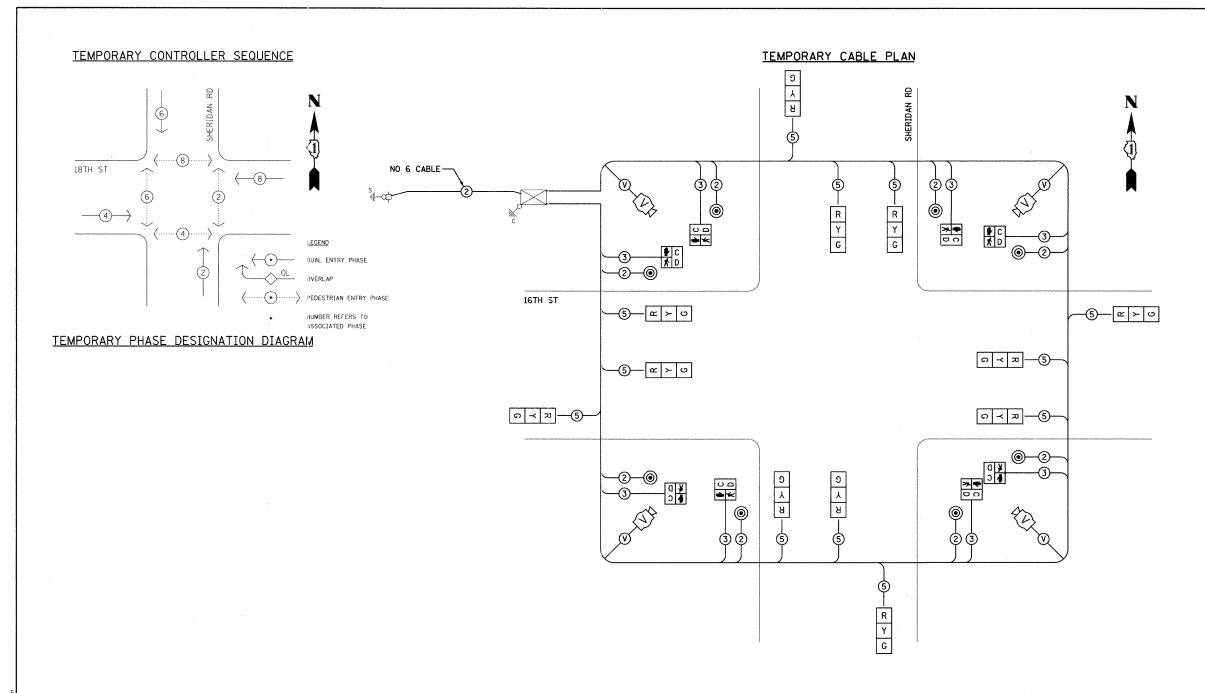
Ciorba Group, Inc. 507 North Cumberland Avenue, Suite 402 hicago, Illinois 60656

DESIGNED - RJR ISER NAME = ntumber REVISED DRAWN RJR REVISED PLOT SCALE = 20.0000 '/ IN. CHECKED JMV REVISED PLOT DATE = 4/11/2011 DATE 03/22/2011 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SHERIDAN ROAD TRAFFIC SIGNAL IMPROVEMENTS & INTERCONNECT TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN SHERIDAN ROAD AT 16TH STREET SHEET NO. 9 OF 35 SHEETS STA.

COUNTY TOTAL SHEE SECTION 09-00169-00-TL LAKE 35 9 2736 CONTRACT NO. 63592

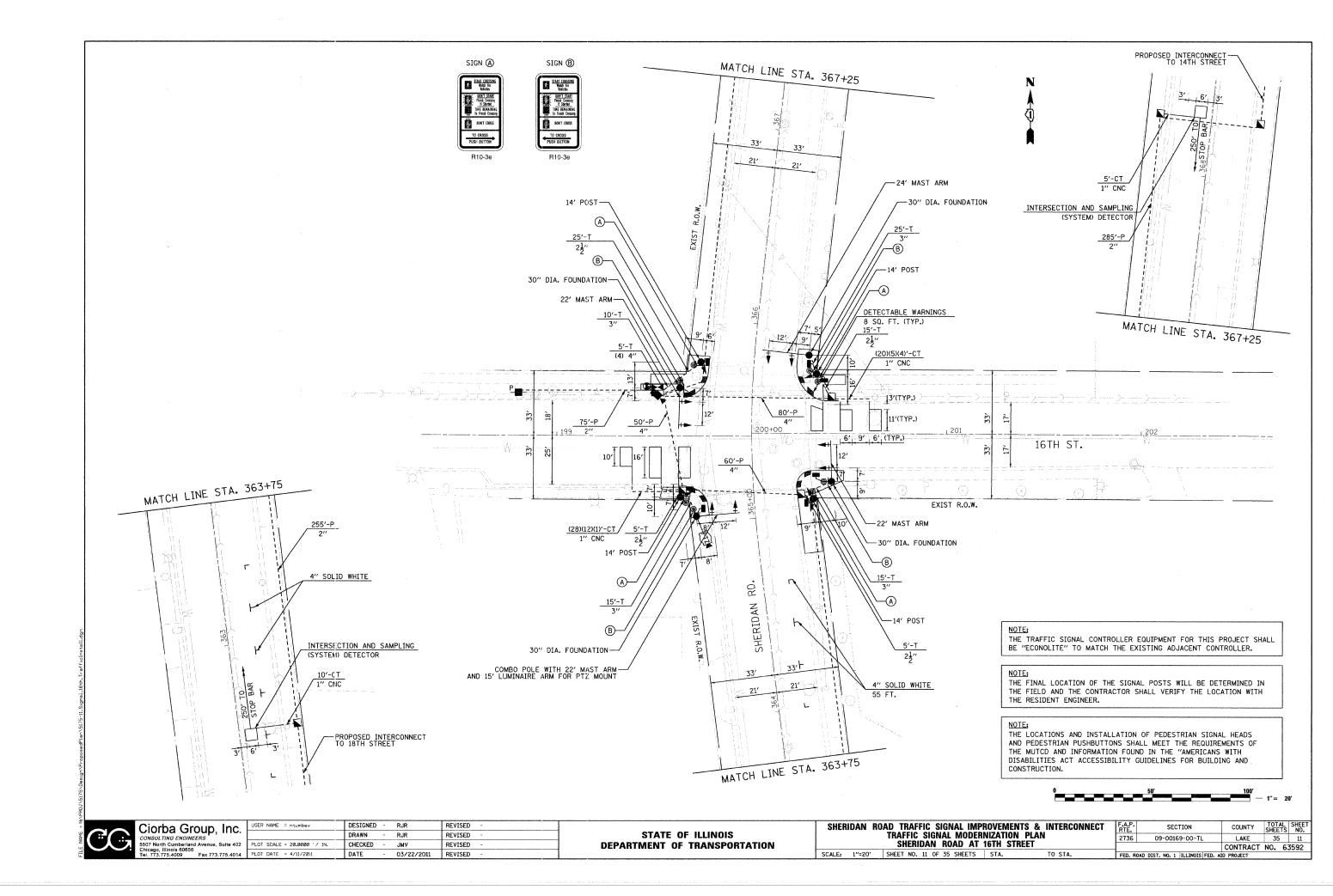
TEMPORARY WOOD POLE-

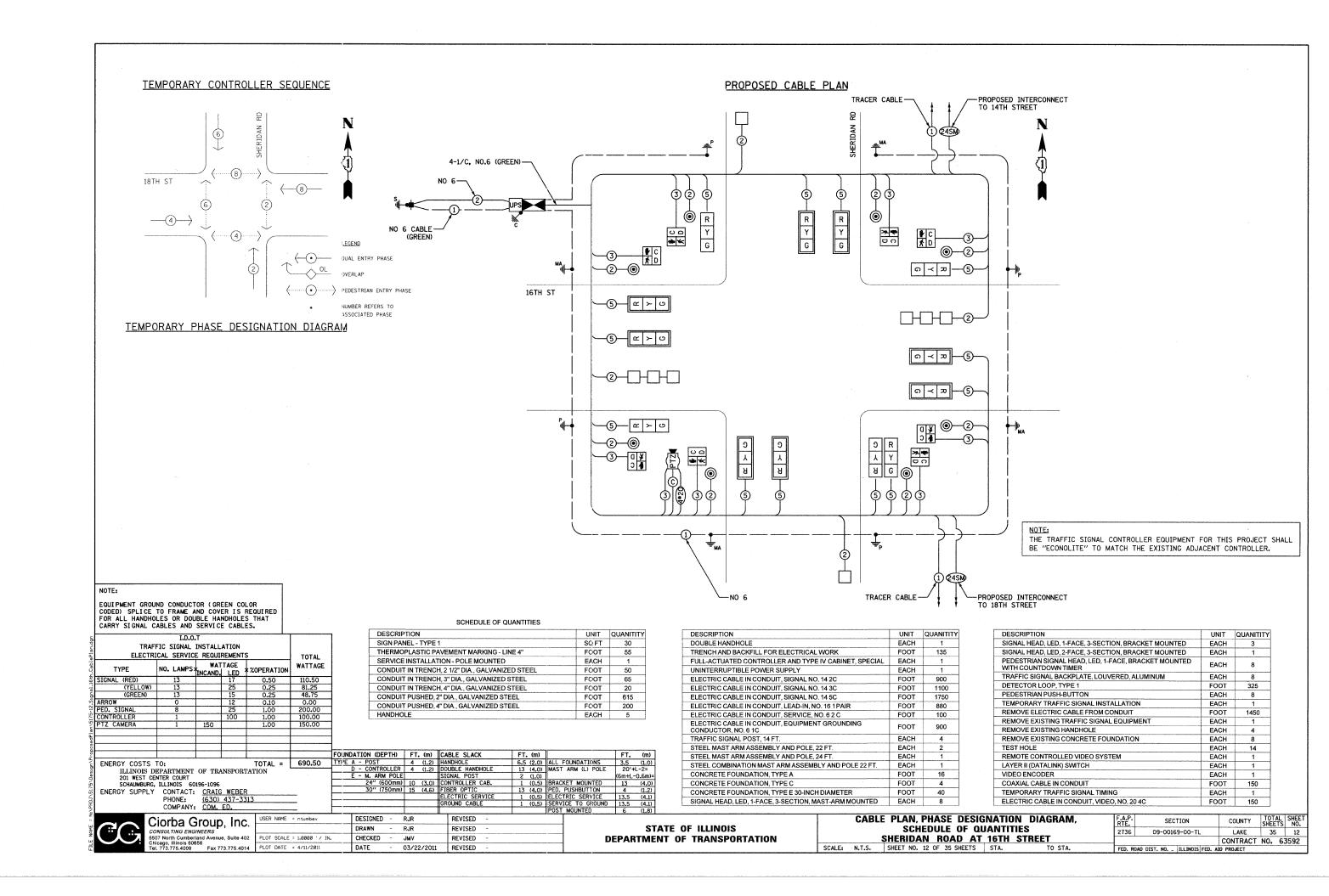


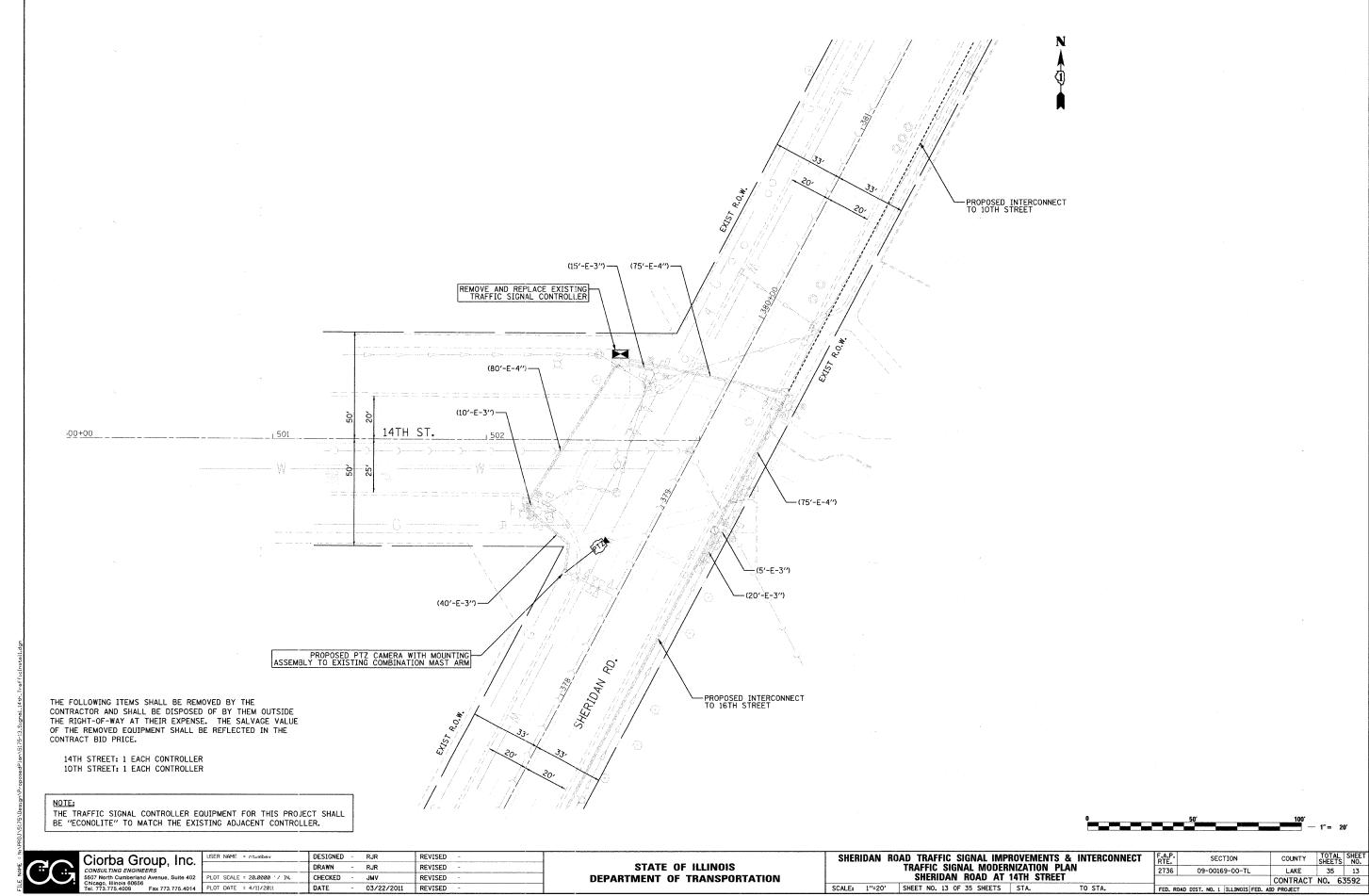
TDAE										
i I	TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS									
	INCAND. LED 7301 E.I.V. 2011									
SIGNAL (RED)	12		17	0.50	102.00					
(YELLOW)	12		25	0.25	75.00					
(YELLOW) (GREEN)	12		15	0.25	45.00					
PED. SIGNAL CONTROLLER										
PED. SIGNAL	200.00									
CONTROLLER	100.00									
VIDEO SYSTEM	VIDEO SYSTEM 1 - 1.00 150.									
ENERGY COSTS ILLINOIS DI 201 WEST CE SCHAUMBURG, ENERGY SUPPLY										
ENERGY COSTS TO: TOTAL = 672.00										
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096										
ENERGY SUPPLY	CONTACT: PHONE:	(630)	WEBEF 437-33							
	COMPANY:	COM.	ED.							

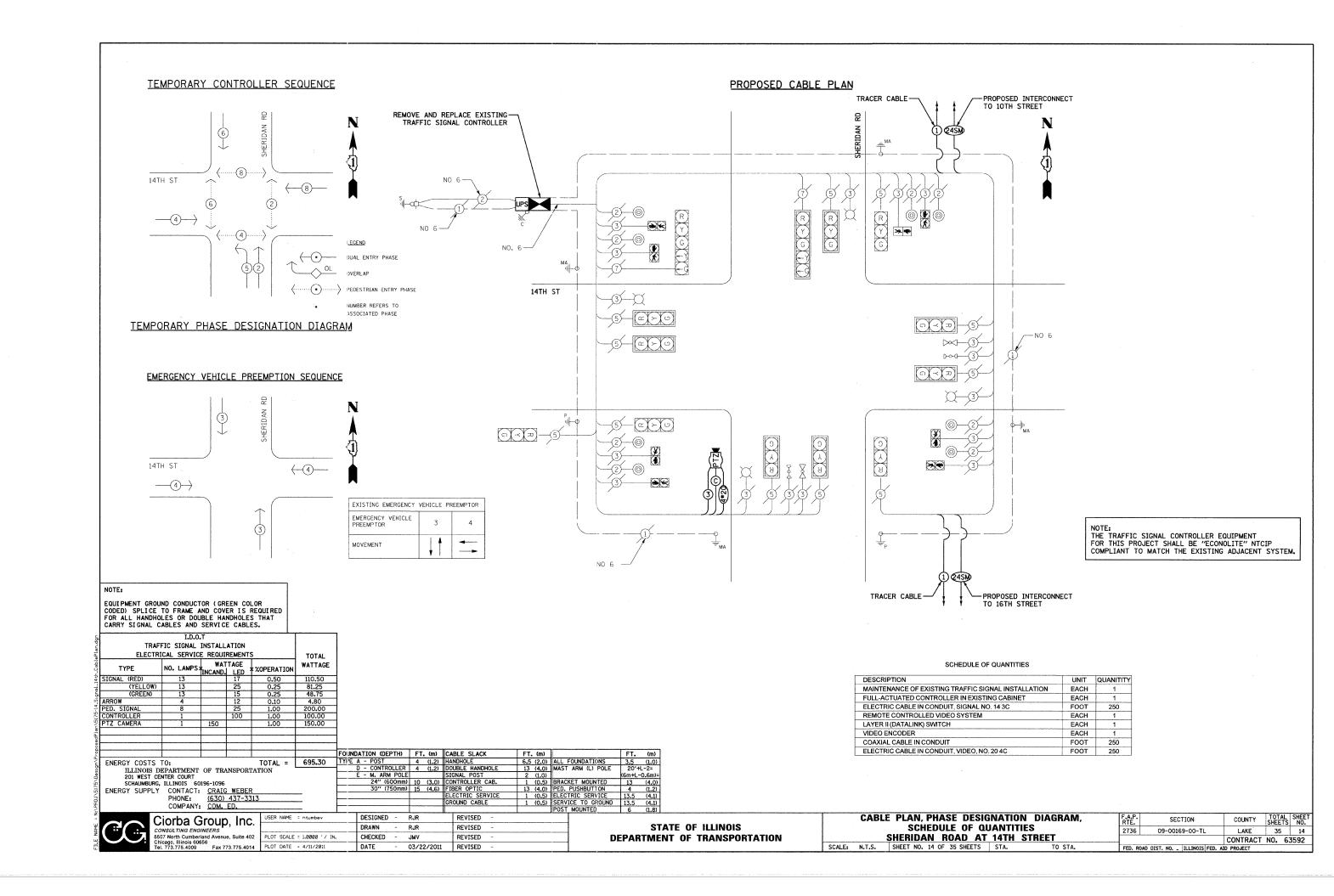
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

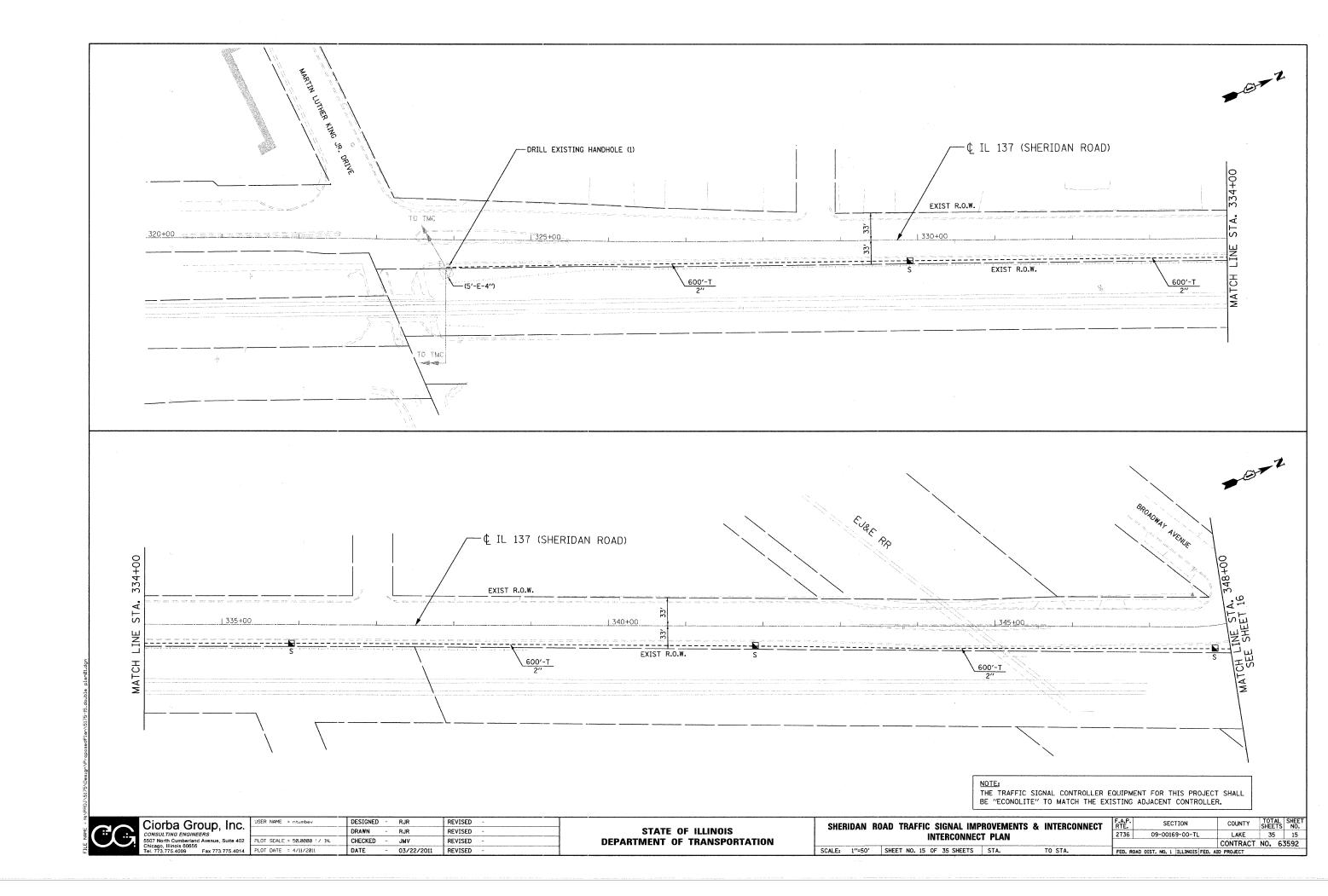
| TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, | SALE | SECTION | SCHEDULE OF QUANTITIES | SHEET | STALE | STALE | STALE | STALE | SECTION | SCOUNTY | SHEET | SHEET | SHEET | SHEET | STALE | SHEET | SHE

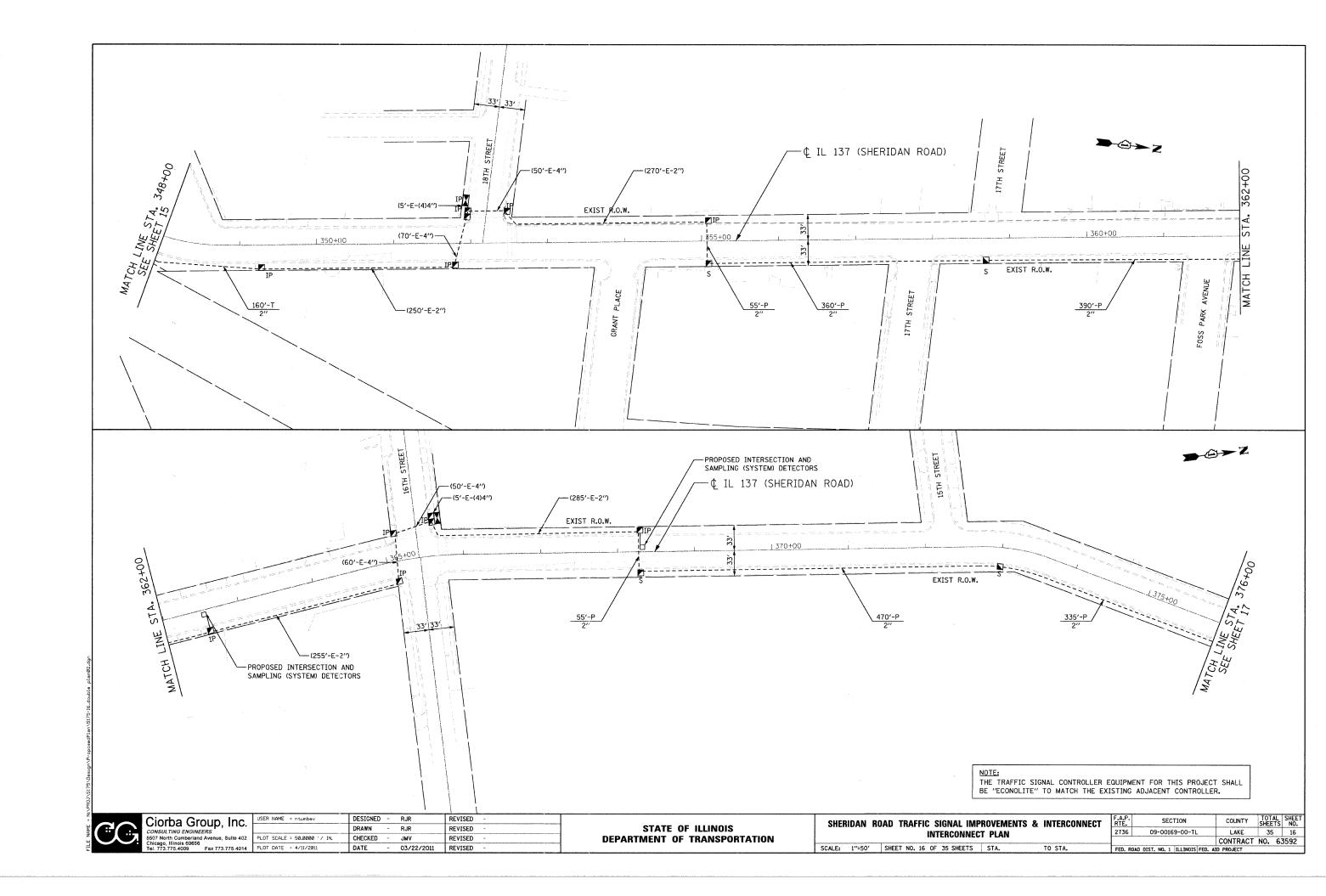


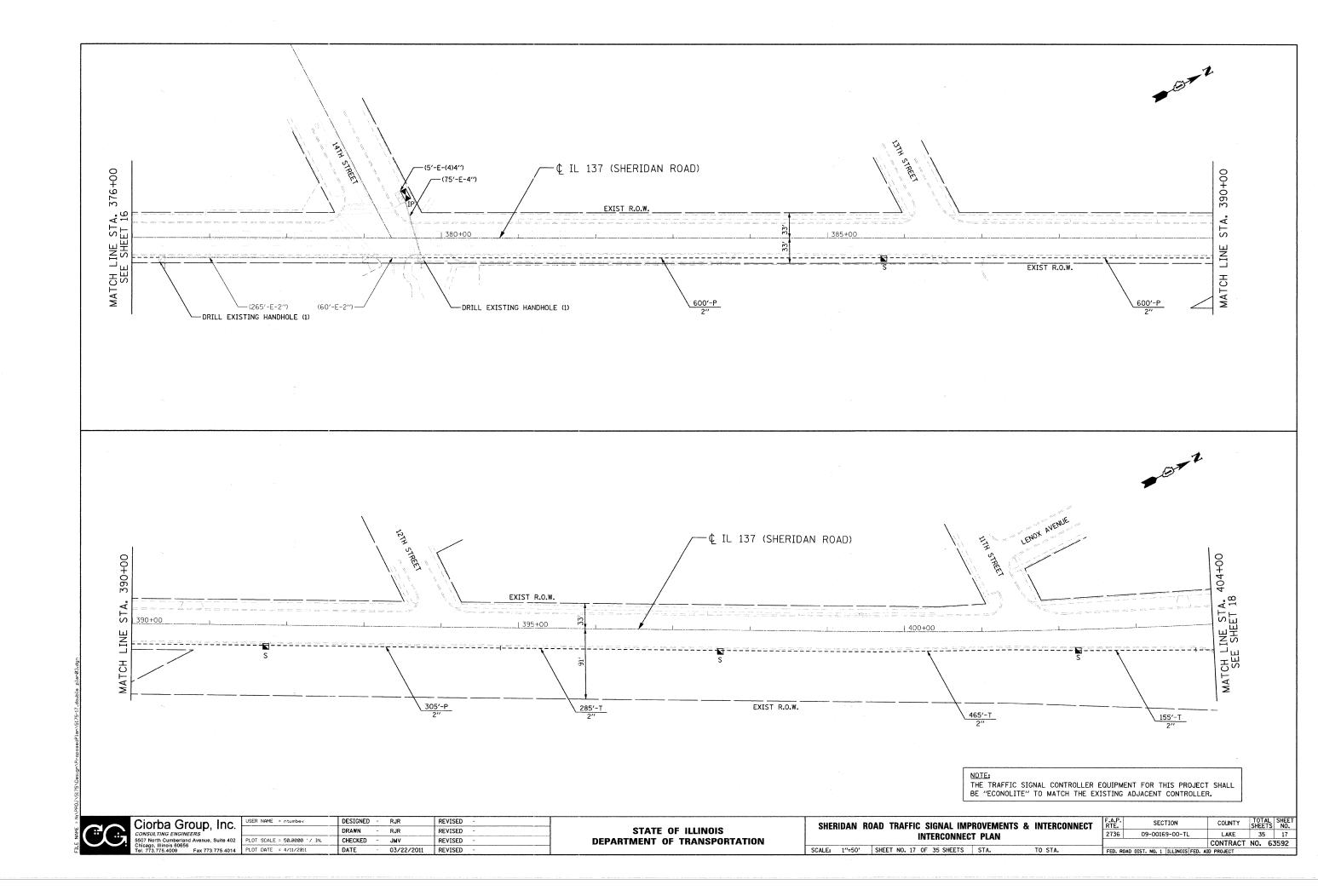


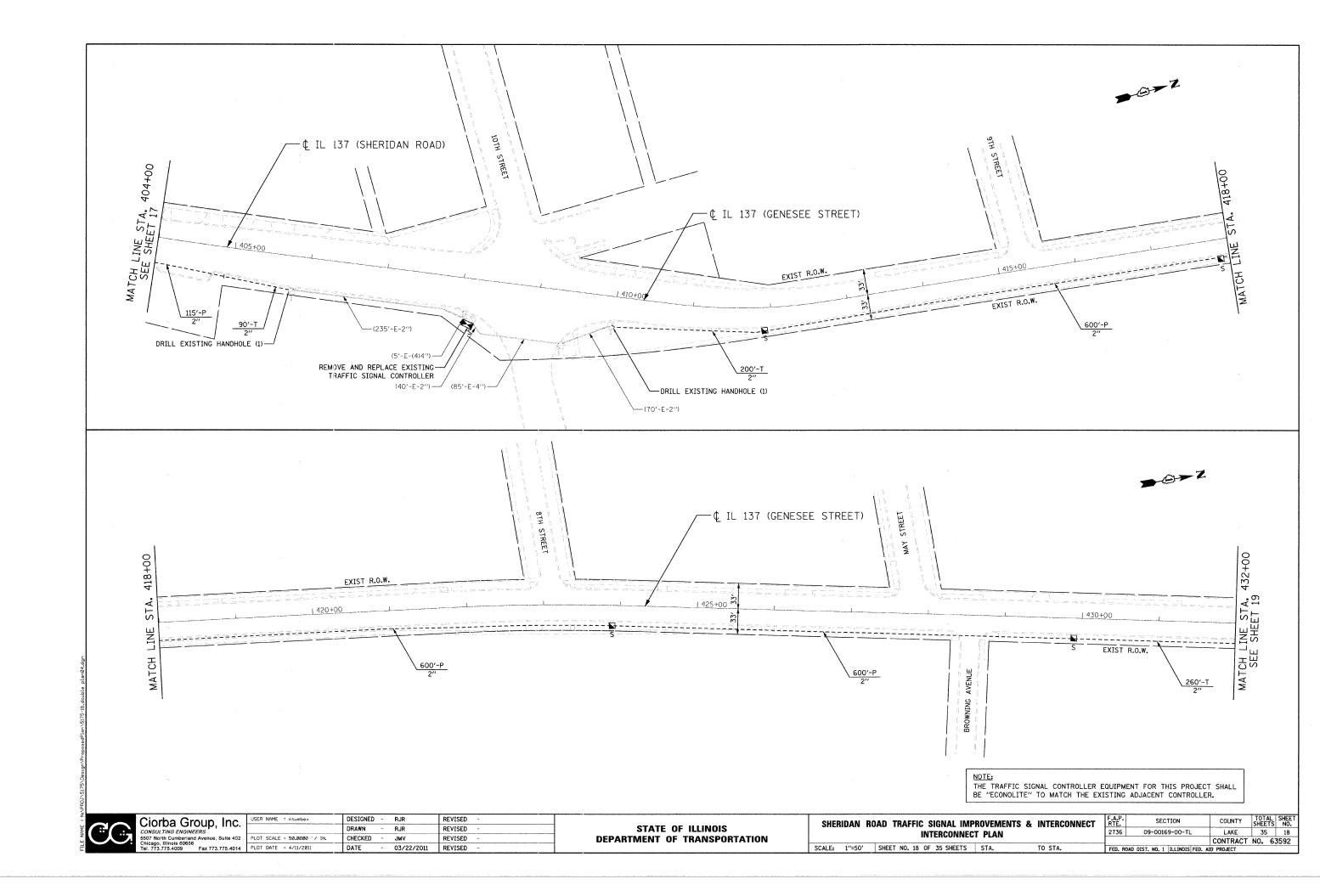


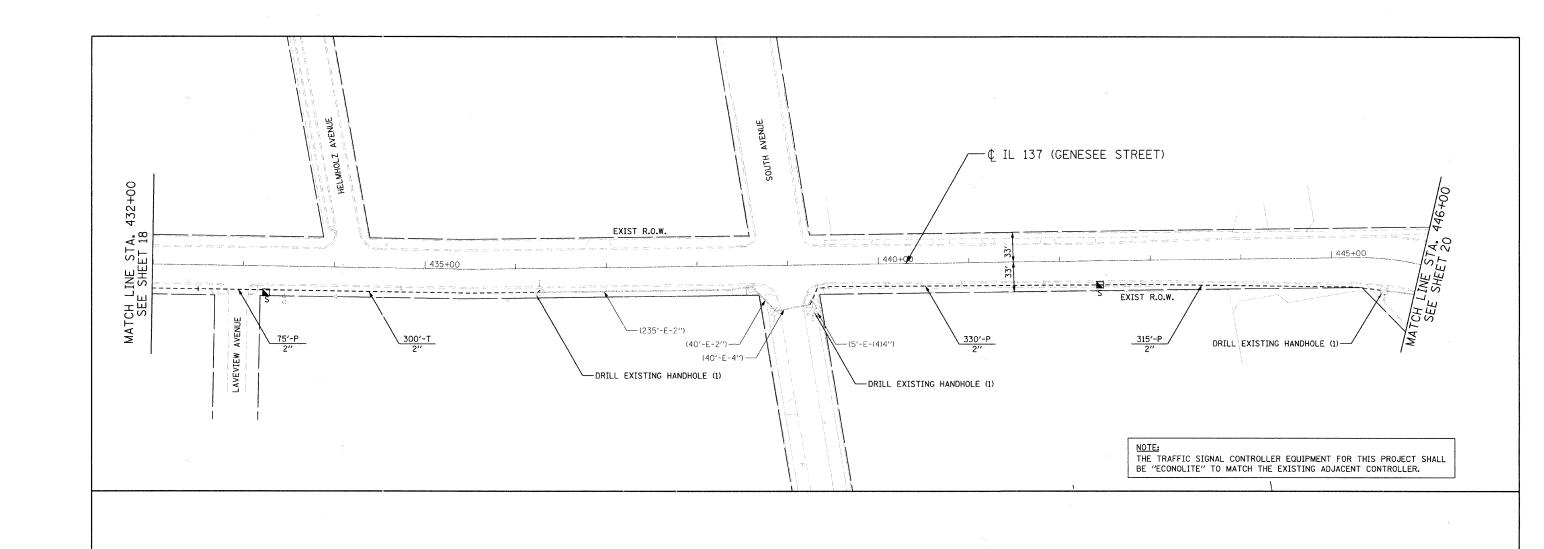












Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Fax 773.775.4014

DESIGNED - RJR REVISED DRAWN -REVISED CHECKED - JMV PLOT SCALE = 50.0000 '/ IN. REVISED 03/22/2011 DATE REVISED

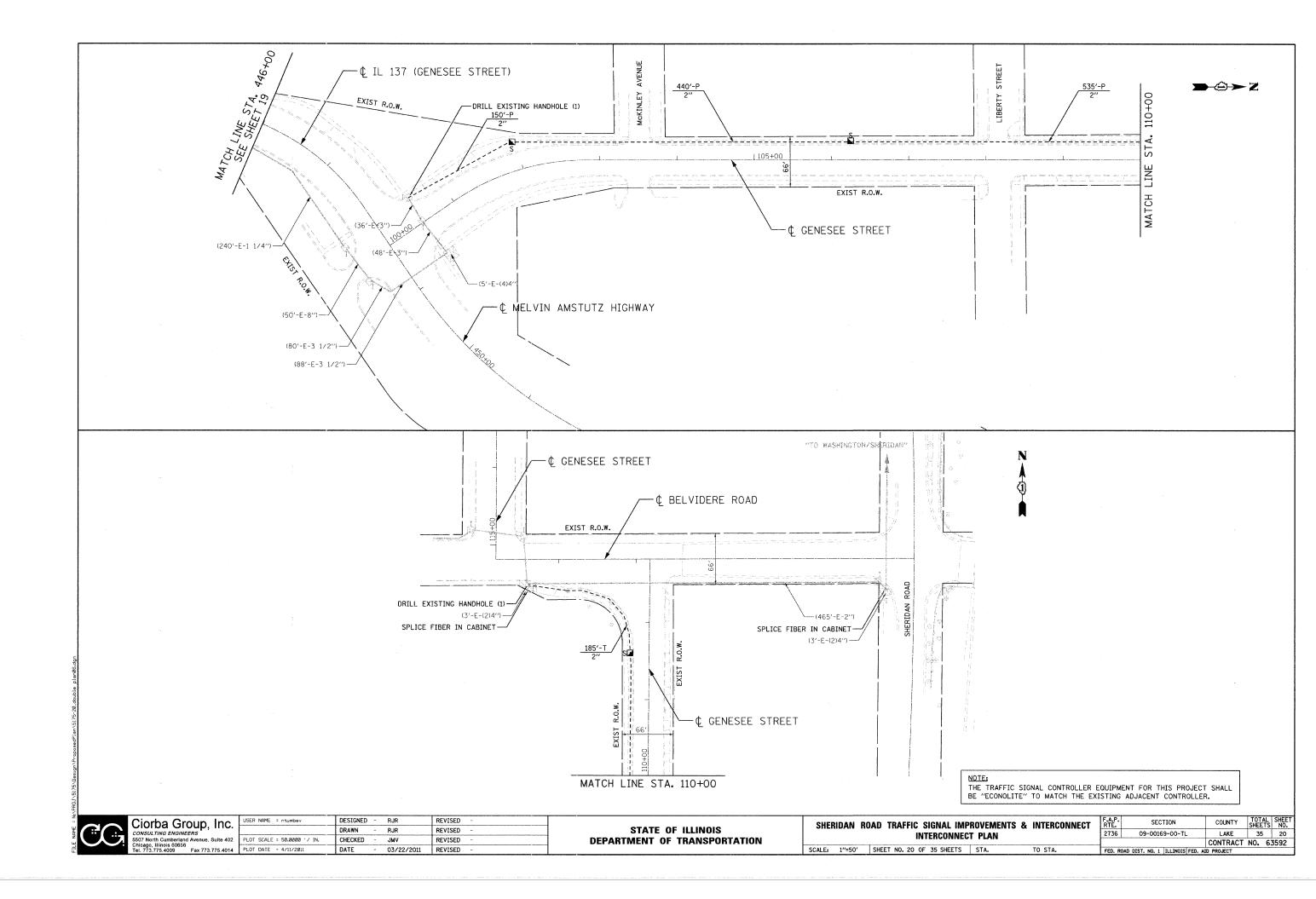
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

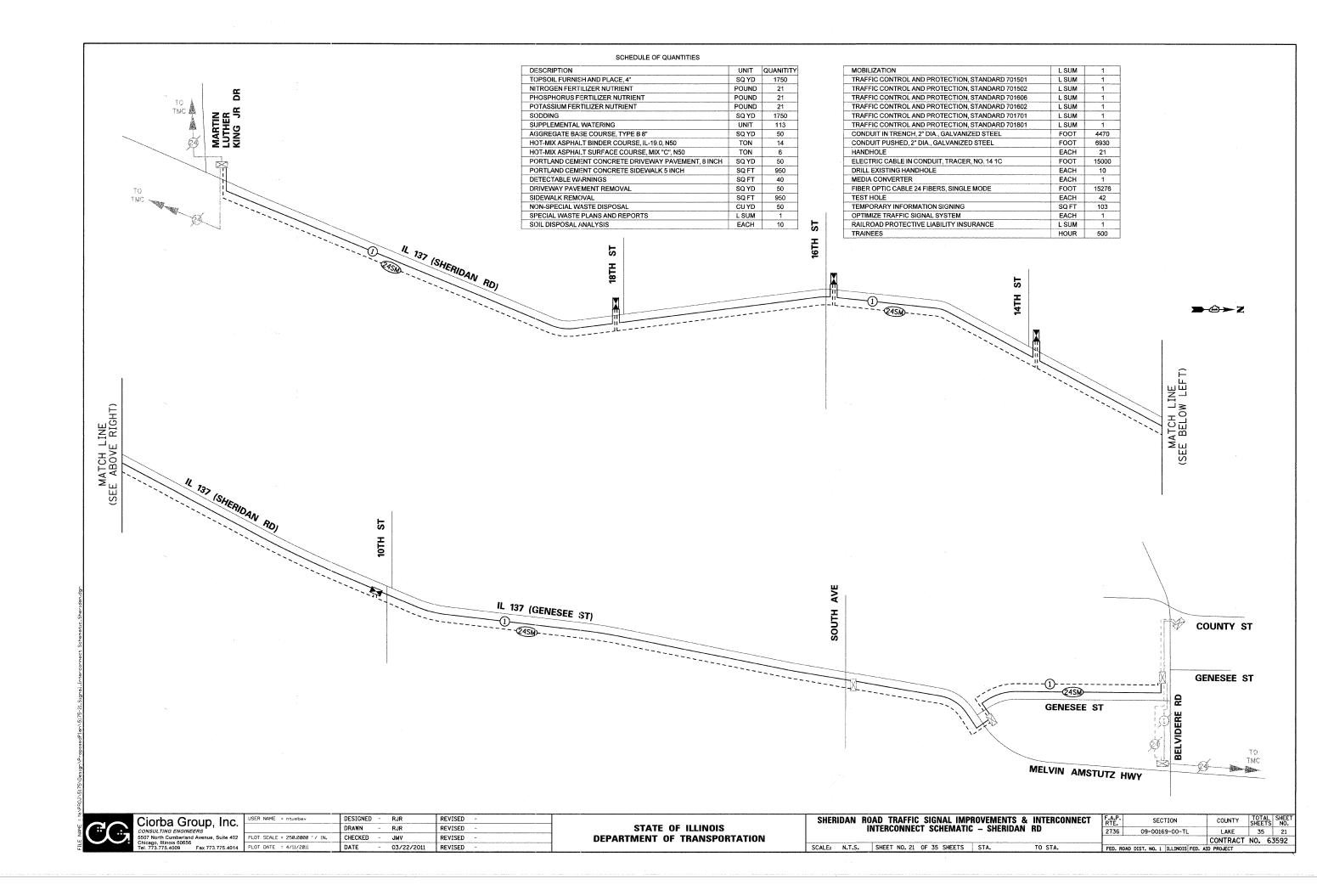
SECTION SHERIDAN ROAD TRAFFIC SIGNAL IMPROVEMENTS & INTERCONNECT 2736 INTERCONNECT PLAN

COUNTY | TOTAL | SHEET | NO. |

LAKE | 35 | 19 |

CONTRACT | NO. | 63592 09-00169-00-TL SCALE: 1"=50' SHEET NO. 19 OF 35 SHEETS STA. TO STA.





USER NAME = *USER*

PLOT SCALE = N/A

PLOT DATE = *DATE*

DESIGNED - DG

DRAWN - DG

CHECKED - DG

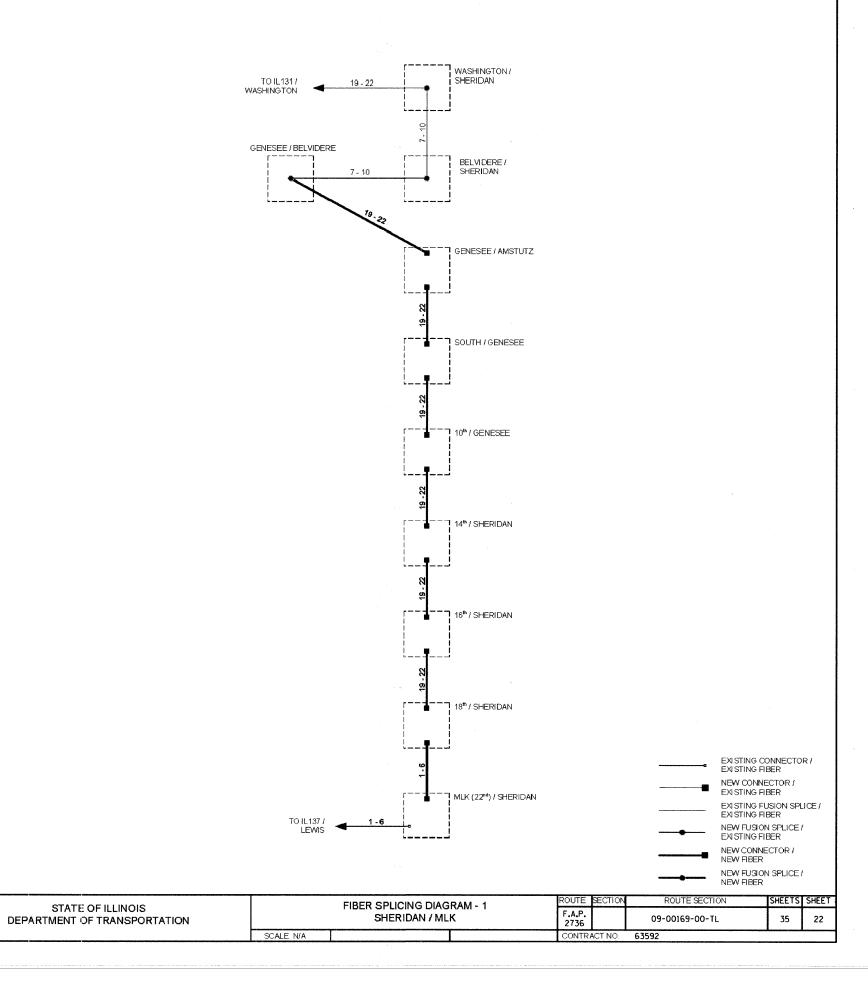
DATE 2011/03/15

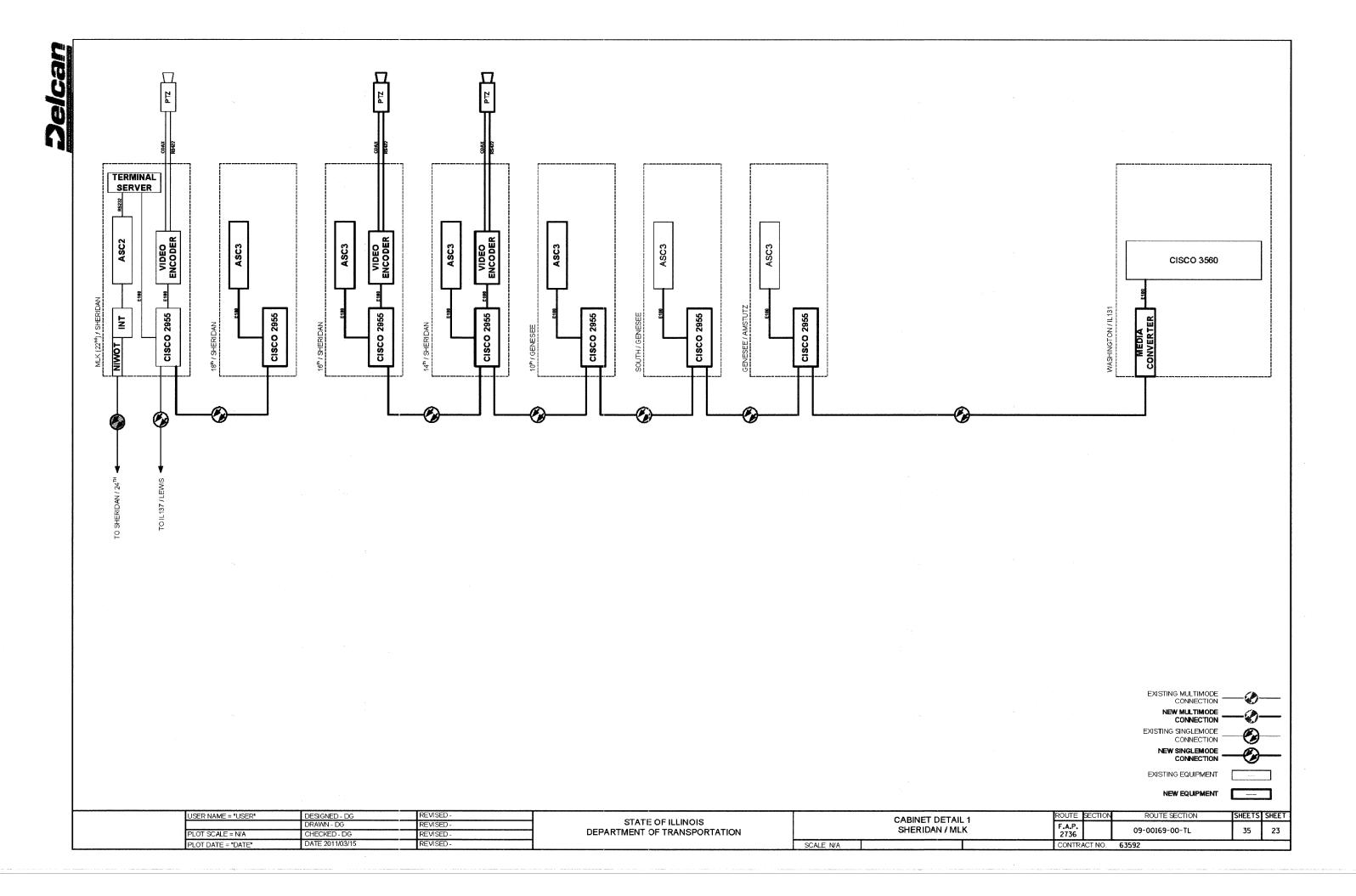
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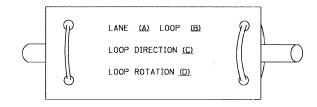




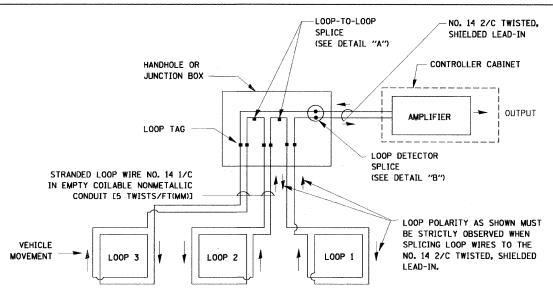
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

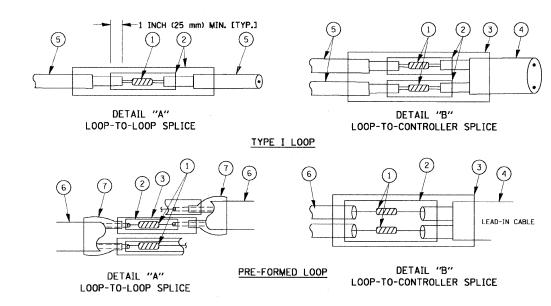


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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



LOOP DETECTOR SPLICE

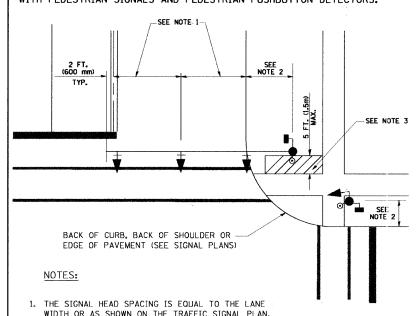
- \hfill western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED,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

SCALE:	SHEET NO. 1 OF 6 SHEETS	STA.	SION BETAILS		DAD DIST, NO. ILLINOIS FED. A		NO.	63592
		T == .					NO.	63592
STANDAR	D TRAFFIC SIGN	AL DE	SIGN DETAILS	2130	03 00103 00 12			
C T 4 N D 4 D	D TDAFFIO CION		CION DETAILS	2736	09-00169-00-TL	LAKE	35	24
	DISTRICT	ONE		RTE.	SECTION	COUNTY	SHEETS	NO.
	DICTDICT	ONE		F.A.P	SECTION	COUNTY		S

FILE NAME =	USER NAME = kanthaphixaybo	DESIGNED - DAD	REVISED -
c:\pw_work\PWIDOT\KANTHAPHIXAYBC\dØli26	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 -

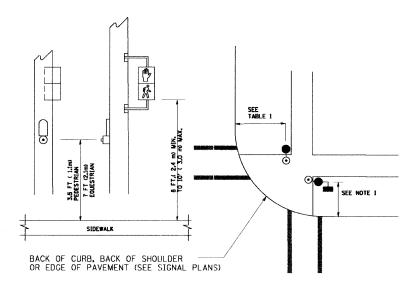
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



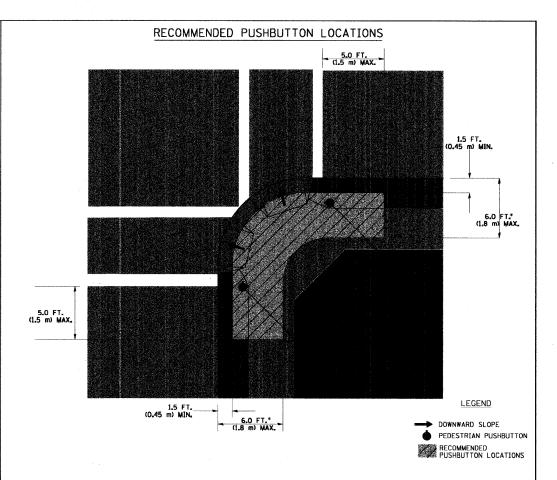
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE 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 HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

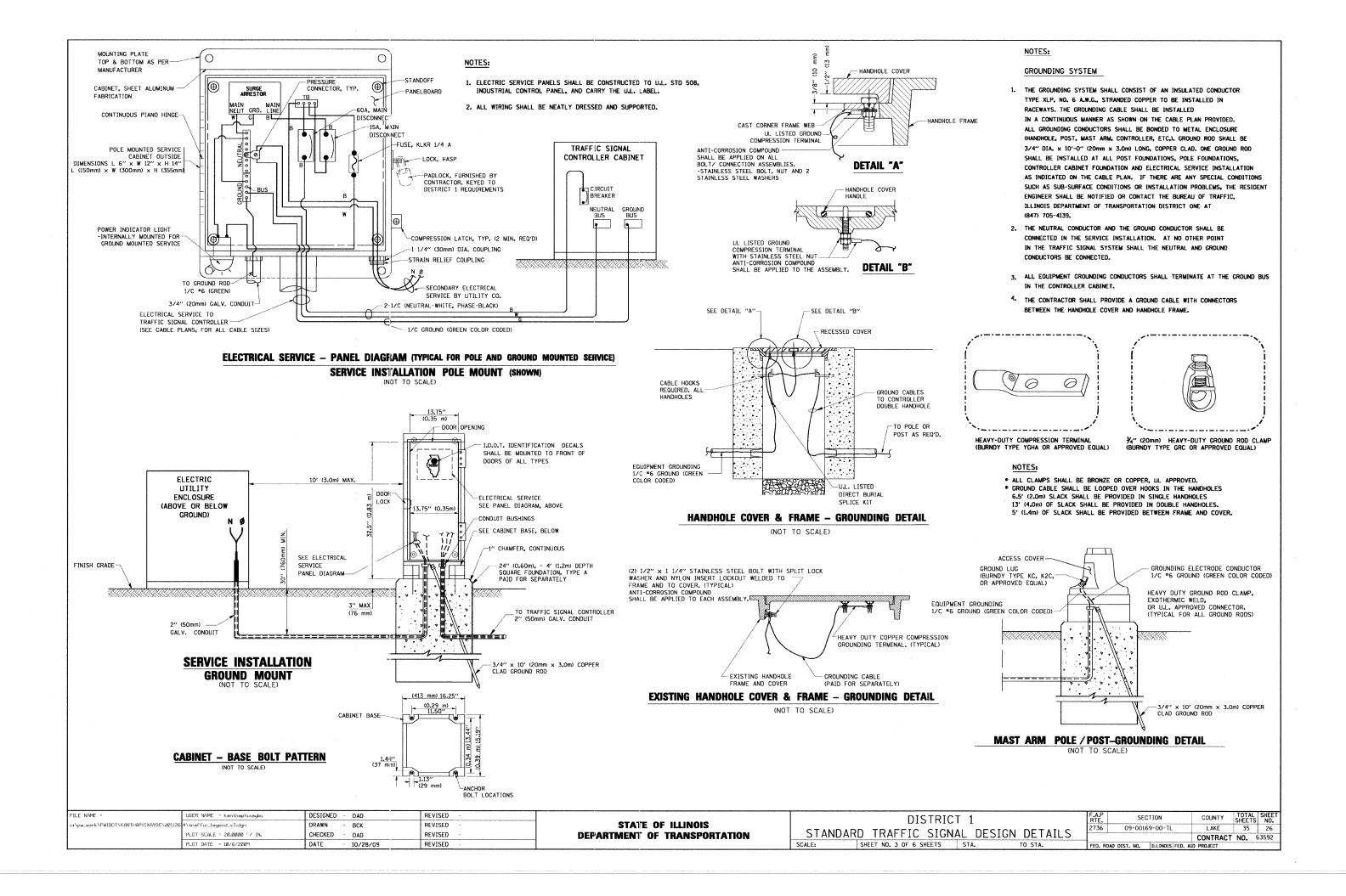
TRAFFIC SIGNAL EQUIPMENT OFFSET

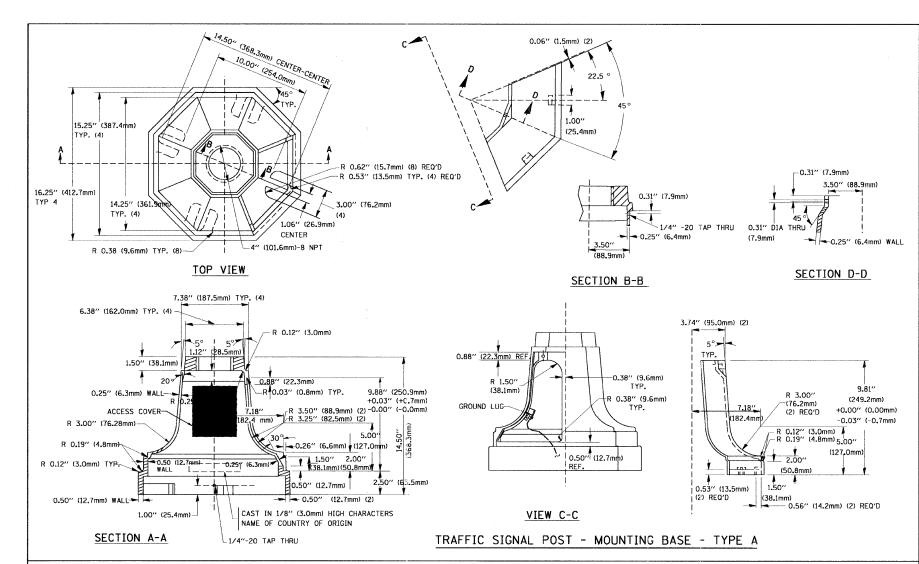
THAT TO STOTAL END MENT OF SET										
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)								
TRAFFIC SIGNAL MAST ARM POLE	6 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.								

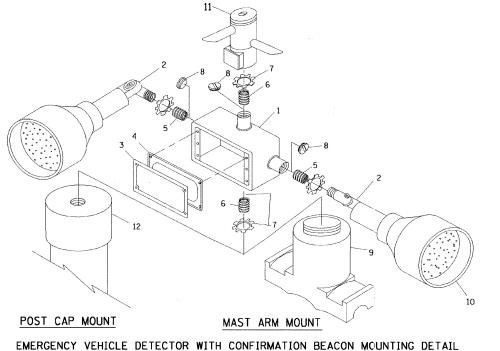
NOTES

- 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.

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o:\pw_work\PWIDOT\KANTHAPHIXAYBC\dØ1126	4\traffic_legend_v7.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS		2736	09-00169-00-TL	LAKE	35	25	-
	PLOT SCALE = 20.00000 '/ IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS			CONTRACT	NO	63592	-
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -		SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.	FED. ROAD	D DIST. NO. ILLINOIS FED. A				







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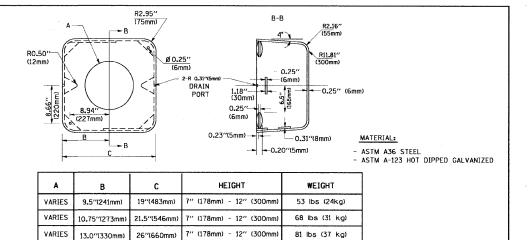
DATE

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

NOTES:

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM *1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM *2- MULBERRY CON-0-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 34"(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.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



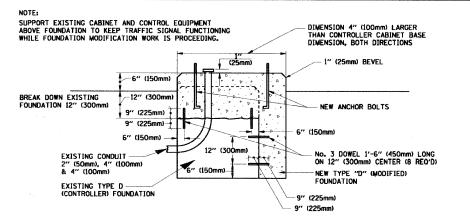
126 lbs (57 kg)

SHROUD

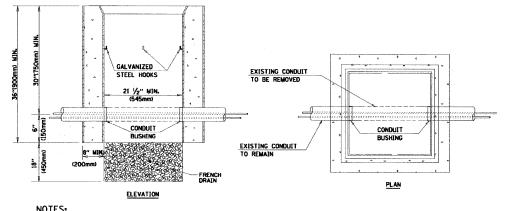
NOTES:

VARIES

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



MODIFY EXISTING TYPE "D" FOUNDATION

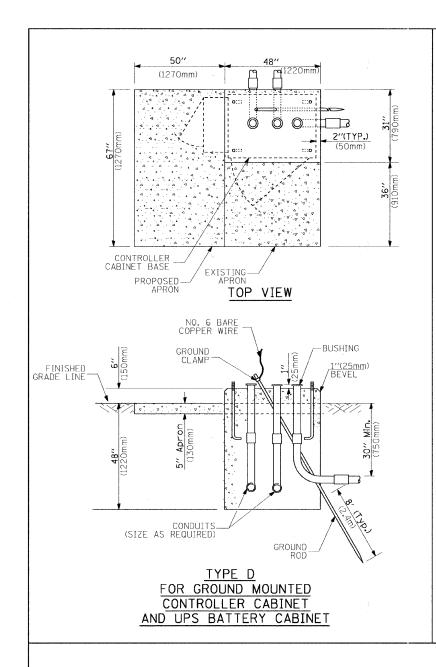


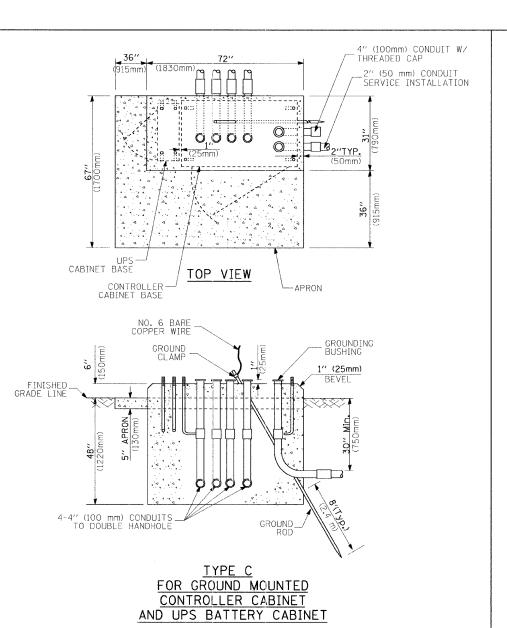
NOTES:

- 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

TOTAL SHEE NO. 35 27 SECTION COUNTY DISTRICT 1 LAKE 09-00169-00-TL STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 63592 SHEET NO. 4 OF 6 SHEETS STA.





	49" (SEE NOTE 3) 1245mm)	-SEE NOTE 5
	16" 44" (1118mm) (1118mm)	51mm)
2" × 6" (51mm × 152mm)	e (E (G4mm 12) (25mm 12) (25mm 12) (25mm 12)	2.26." (mm) (mm)
WOOD FRAMING (TYP.)		<u>-</u>
	F====	
		→ TRAFFIC SIGNAL
		CONTROLLER CABINET
UP CABINE	S	3/4" (19mm) TREATED PHYWOOD DECK
		2" × 6" (51mm × 152mm) TREATED WOOD
		(305mm)
		1219mm)
NOTES:		6" × 6" (152mm × 152mm) TREATED WOOD POSTS
1. BASED ON CONTROLLER CABINE ADJUST PLATFORM SIZE TO FI	T TYPE IV WITH BASE DIMENSIONS T CABINET BASE DIMENSIONS BEING	
2. BASED ON UNINTERRUPTIBLE P	OWER SUPPLY CABINET WITH BASE D	DIMENSIONS OF 16" \times 25" (406mm \times 635mm).

65" (SEE NOTE 4) (1651mm)

- 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

		D	E	P	Ι	Н		Ω	E	F	\mathcal{L}	1	1	V	D	Δ	I	I	Ω	١	j
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FOUNDATION

TYPE A - Signal Post

SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE

TYPE C - CONTROLLER W/ UPS
TYPE D - CONTROLLER

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)

4'-0" (1,2m)

4'-0" (1.2m) 4'-0" (1.2m)

4'-0" (1.2m)

- 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.

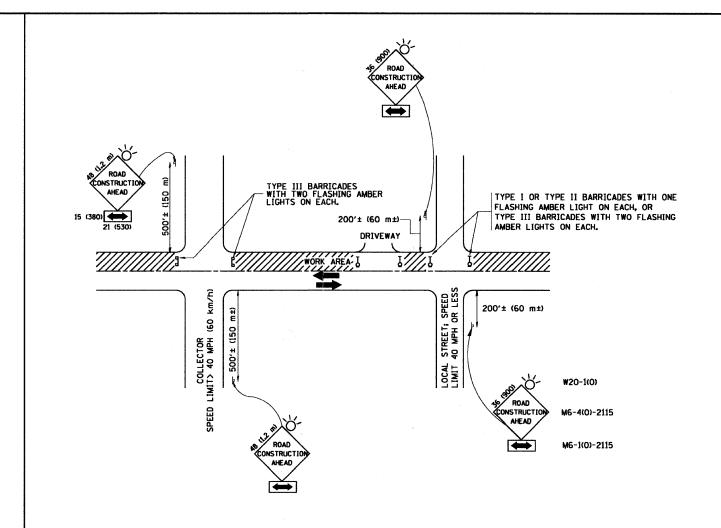
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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	PLOT DATE = 10/6/2009	DATE -	10/28/09	REVISED -	

	DISTRICT	1		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDAR	D TRAFFIC SIGN	וח וא		2736	09-00169-00-TL	LAKE	35	28
יואטויורוכ	THAILIC SIGN	7L U	LOIGN DETAILS			CONTRACT	NO.	63592
SCALE:	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED. A	ID PROJECT		

TRAFFIC SIGNAL LEGEND

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FILE NAME = USER NAME = kanthaphixa	aybo DE	SIGNED - DAG/BCK	REVISED -				-	DISTRICT 1	F.A.P RTE.	SECTION	COUNTY TOTAL SHEE
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		(1)	(1)	CROSSBUCK		*	*
WIRELESS DETECTOR SENSOR	RW	(W)	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING CATE		X0X>	X-X-
PAN, TILT, ZOOM CAMERA		PI	PIZ	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,			(5)	FLASHING SIGNAL		∑o ∑	X⊕X
TIDES DETESTION ZONE	D		!!!!!!	RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	Σ	X-X-X	X QX X
VIDEO DETECTION ZONE	LV.N		<u></u>	RADIO INTERCONNECT	 0	#11110		RAILROAD CONTROL CABINET	900		
VIDEO DETECTION CAMERA	R [∇]3	(V)	② •	SYMBOL, WITH COUNTDOWN TIMER	D	(8) D		DAN DOAD CONTDOL CARINET		EXISTING	PROPOSED
MICROWAVE VEHICLE SENSOR	R [M])			PEDESTRIAN SIGNAL HEAD, INTERNATIONAL		Q c	₽ C			EVICTANO	DDCCCCC
PREFORMED DETECTOR LOOP		P	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		● ★	*	RAILROAD	SYMBO	DLS	
DETECTOR LOOP, TYPE I				INTERNATIONAL SYMBOL, OUTLINED			(AT)			4	-
ILLUMINATED SIGN "NO RIGHT TURN"		8	®	12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		ĮPSĮ	PS
"NO LEFT TURN"	O		(6)	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN	R					"P"	4 G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR	[PP]	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	(a) APS				∢ Y	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR	[P]	
PEDESTRIAN PUSHBUTTON DETECTOR	R	©	©	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			Y	EXISTING INTERSECTION LOOP DETECTOR			
PEDESTRIAN SIGNAL HEAD	R -	-[]	-1			R	R	SAMPLING (SYSTEM) DETECTOR		S	S
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	0-(D'F"	O- (> "F"	●► "F"				∢ G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SIGNAL HEAD OPTICALLY PROGRAMMED	R →	—[>″p″	→ "P"	SIGNAL FACE		(G)	G ◆Y	TO BE REMOVED	RMF O		
SIGNAL HEAD WITH BACKPLATE	4	+	+				R	FOUNDATION TO BE REMOVED SIGNAL POST AND FOUNDATION	21.5		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			→ ²	YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOLINIATION TO BE DEMOYED	RMF O-X		
SIGNAL HEAD	R →⇔	\rightarrow	-	12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED	0		
GUY WIRE	<u>R</u>	>	>-	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND	RMF		
BETTER) 45 FOOT (13.7m) MINIMUM	^R ⊗	\otimes	•	ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
SIGNAL POST TEMPORARY WOOD POLE (CLASS 5 OR	R R	0	•	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED			
ASSEMBLY AND POLE WITH PTZ CAMERA	PZI	PZÞ	PZ	INTERSECTION ITEM REMOVE ITEM	р	I	IP	OR (S) SERVICE CONTROLLER CABINET AND	RCF		
ASSEMBLY AND POLE WITH LUMINAIRE STEEL COMBINATION MAST ARM	RO	O	•	SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		Cull	c _l
STEEL COMBINATION MAST ARM	R _{O-X}	0-X	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS)		>	
STEEL MAST ARM ASSEMBLY AND POLE ALUMINUM MAST ARM ASSEMBLY AND POLE	R			COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		_<	-0-
(P) POLE OR (G) GROUND MOUNT	R.	Ш	` T	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		-(24F)-	-24F-
TELEPHONE CONNECTION	R	Т	P	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			ARTON ARTON MINES MARKET MAR	NO. 62.5/125, MM12F		— <u>(12F</u>)—	
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	-DR	-DP	<u>-</u> ■ <u>P</u>	JUNCTION BOX	R	0	•	NO. 18 3 PAIR TWISTED, SHIELDED FIBER OPTIC CABLE		/-	O
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE,		-6)-	<u></u>
MASTER MASTER CONTROLLER		EMMC EMMC	MC MMC	HEAVY DUTY HANDHOLE	R	H	H	VENDOR CABLE FOR CAMERA			
COMMUNICATIONS CABINET MASTER CONTROLLER	CC (EC C	СС	HANDHOLE	R□						•
RAILROAD CONTROL CABINET	D	B		CONFIRMATION BEACON	R _{0-(]}	0()	•4	COAXIAL CABLE			—©—
CONTROLLER CABINET	R			EMERGENCY VEHICLE LIGHT DETECTOR	κ	\approx	•	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		<u> </u>	
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED



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 ENGINEERS
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG WOUNTED 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 1, TYPE 11 OR TYPE 111 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:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 48 × 48 (1.2 m × 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 BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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.

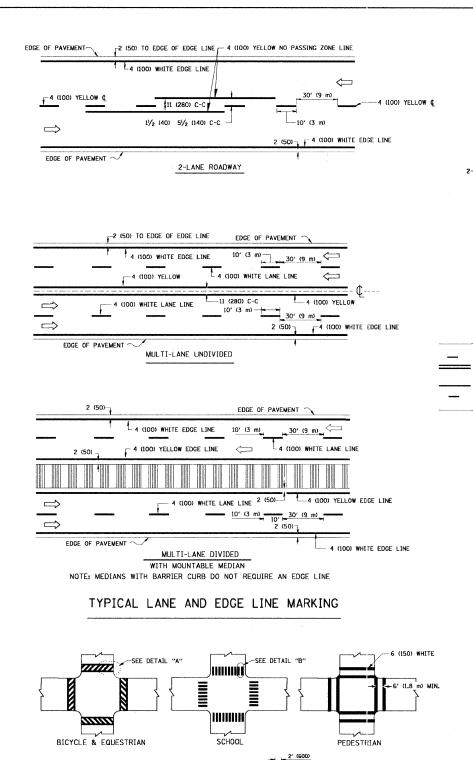
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

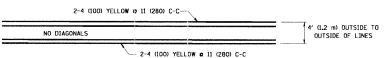
All dimensions are in millimeters (inches) unless otherwise shown.

1	FILE NAME =	USER NAME = geglienobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
ı	Wi\distatd\22x34\talØidgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
i		PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
ı		PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

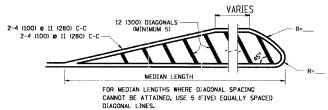
	TRAFFIC CONTROL AND PROTECTION FOR	1
	SIDE ROADS, INTERSECTIONS, AND DRIVEWA	YS
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.

RTE.	SECTION 09-00169-00-TL	COUNTY	SHEETS	NI NI
2.50	TC-10	CONTRACT	1	6359



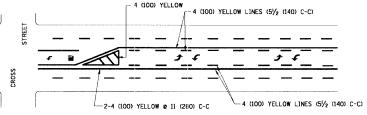


4' (1.2 m) WIDE MEDIANS ONLY

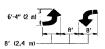


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

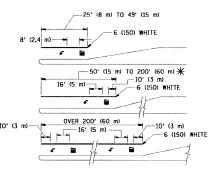


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

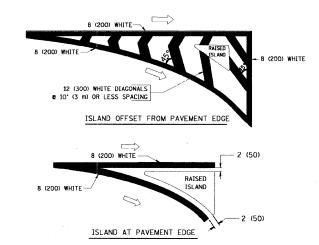


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²) (\P) AREA = 20.8 SQ. FT. (1.9 m²)

* 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

	T		T	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 2 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 t 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 e 6 (150) 12 (300) e 45° 12 (300) e 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (GOD) APART 2' (GOD) APART 5' (GOD) 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 DESTRICT 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 (0VER 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 S0. FT. (0.33 m²) EACH "X"=54.0 S0. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) e 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

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

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

1 11	ICAL	LOUVIA	LANE	MAUVI

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	-	EVERS	REVISED	-T.	RAMMACHER	10-27-94
ci\pw_work\pwidot\drivakosgn\dØ1Ø8315\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	-		

12 (300) WHITE

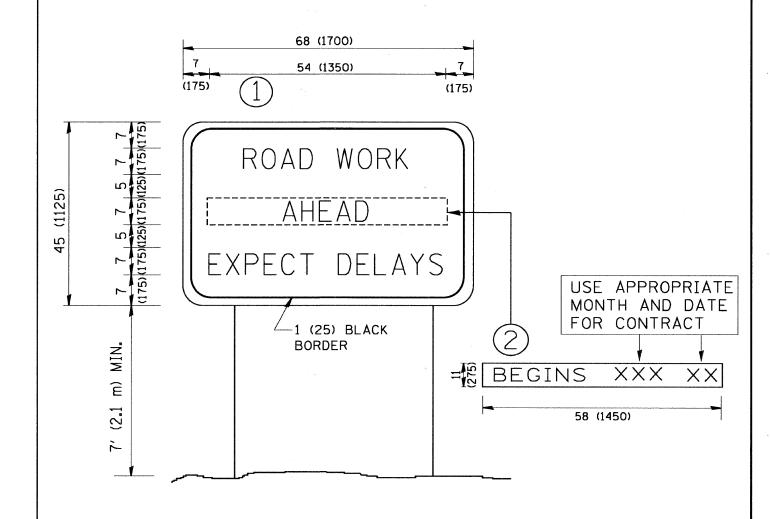
DETAIL "B"

-6 (150) WHITE

TYPICAL CROSSWALK MARKING

DETAIL "A"

		DI	STRICT OF	1E		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS						2736	09-00169-00-TL	LAKE	35	31
							TC-13	CONTRACT	NO.	63592
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

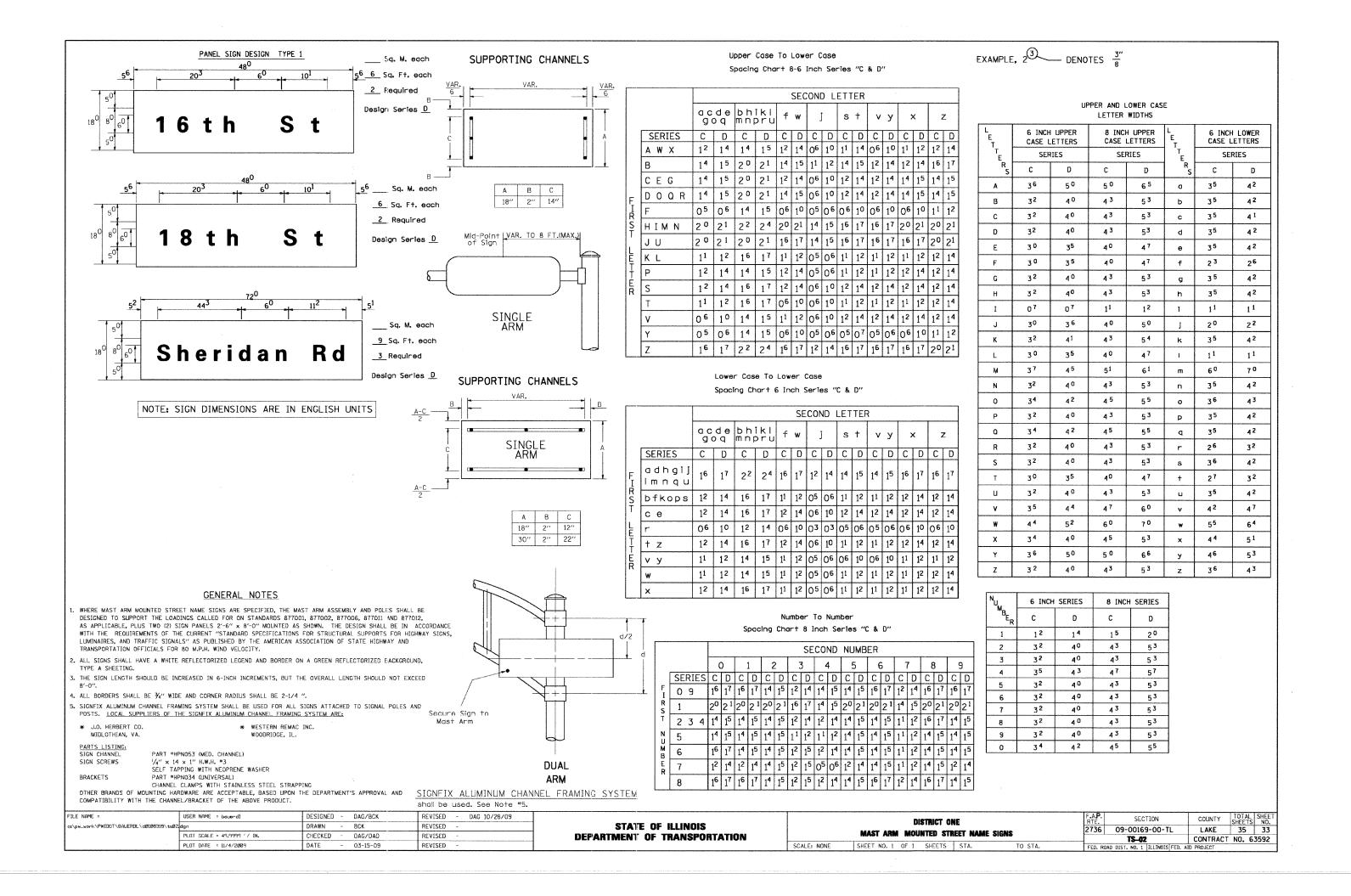


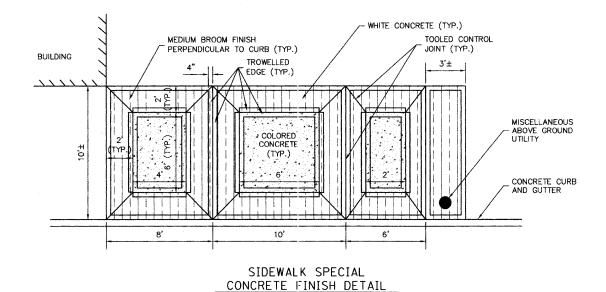
NOTES:

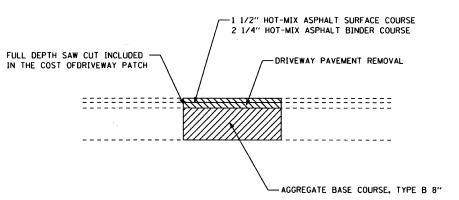
- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START 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.P.	SECTION	COUNTY	TOTAL SHEET
W:\d:etstd\22x34\tc22.dgn		DRAWN -	REVISED	- R. MIRS 12-11-97	STATE OF ILLINOIS				2736	09-00169-00-TL	LAKE	35 32
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED	-T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN				CONTRACT	
	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. AT		







HOT-MIX ASPHALT MIXTURE REQUIREMENTS:

MIXTURE TYPE	AIR VOIDS eNdes
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm) 1 1/2"	4% e 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0mm) 2 1/4"	4% e 50 GYR.

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA. THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP", SEE DISTRICT ONE SPECIAL PROVISIONS.

DRIVEWAY PATCHING DETAIL

Ciorba Group, Inc.

CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60559
Tol. 773.775.4009
Fax 773.775.4014

	SHERIDA	RO/	AD TRAFFIC SIGNAL IMP	ROVEM	ENTS & INTERCONNECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
		nRIVE	WAY PATCHING & CON	2736	09-00169-00-TL	LAKE	35	34			
L								CONTRACT	NO. 6	3592	
S	CALE: 1"=5) [*]	SHEET NO. 34 OF 35 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

