11-21-14 LETTING ITEM 027

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 352 IL 137 (SHERIDAN ROAD) **GRAND AVENUE TO IL 173 (21ST ST)** TRAFFIC SIGNAL MODERNIZATION AND FIBER OPTIC COMMUNICATION SYSTEM SECTION: 12-00999-29-TL **PROJECT: CMM-4003(372)** LAKE COUNTY C-91-410-14

DESIGN DESIGNATION

SHERIDAN ROAD = MINOR ARTERIAL IL 137 (SHERIDAN RD) = OTHER PRINCIPAL ARTERIAL

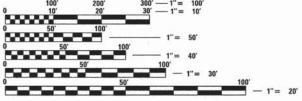
ADT:

IL 137 (SHERIDAN RD) = 19,200 (2013 YEAR)

POSTED SPEED LIMIT:

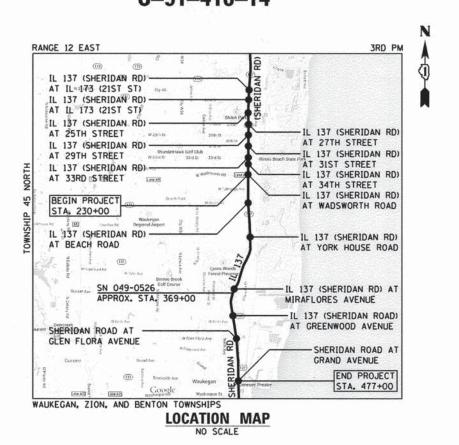
SHERIDAN ROAD = 30 MPH IL 137 (SHERIDAN RD) = 40 MPH

PROJECT IS LOCATED IN THE CITY OF WAUKEGAN, THE VILLAGE OF BEACH PARK, AND THE CITY OF ZION



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



GROSS LENGTH = 24,700 FT. = 4.68 MILE NET LENGTH = 24,700 FT. = 4.68 MILE

ASSOCIATES, INC. 850 Forest Edge Drive - Vernon Hills, IL. 60061 **Consulting Engineers & Surveyors**

LAKE

ILLINOIS CONTRACT NO. 61A55

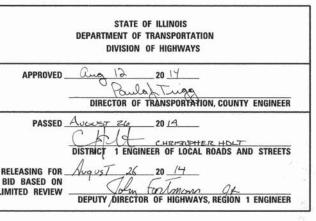
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12-00999-29-TL

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05.11	HALL P. BRIVE
DANIEL P. BRINKMAN, EXP. 11/30/2015	062-055293 D UCENSED Z
8-12-14	ENGINEER OF OF

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 61A55

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NUMBER SHEET TITLE TITLE SHEET

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- SCHEDULE OF QUANTITES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE -IL 137 (SHERIDAN RD) AT 33RD STREET

- SCHEDULE OF QUANTITES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE -IL 137 (SHERIDAN RD) AT 31ST STREET
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- CABINET DETAIL SHERIDAN ROAD FROM GRAND AVENUE TO
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FROM GRAND AVENUE TO IL 173 (21ST ST)

69.-73. LAKE COUNTY DIVISION OF TRANSPORTATION STANDARDS

IDOT STANDARDS

01-06	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
01-07	DECIMAL OF AN INCH AND OF A FOOT PERPENDICULAR CURB RAMPS FOR SIDEWALKS
06-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
11-01 21-02	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS DEPRESSED CORNER FOR SIDEWALKS
06-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM
11-04	PAVEMENT EDGE OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY
1-04	OFF-RD OPERATIONS, MULTILANE 15' (4.5 m) TO 24" (600 mm) FROM
06-02	PAVEMENT EDGE OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
01-04	LANE CLOSURE, 2L. 2W SHORT TIME OPERATIONS
01-06 02-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LAN
02-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT
06-09	TURN LANE
01-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN URBAN LANE CLOSURE, MULTILANE INTERSECTION
01-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
01-03 01-01	TRAFFIC CONTROL DEVICES SIGN PANEL MOUNT DETAILS
06-04	SIGN PANEL ERECTION DETAILS
01-04 01-01	TYPICAL PAVEMENT MARKINGS ELECTRICAL SERVICE INSTALLATION DETAILS
01-02	HANDHOLES
06-02 01-01	DOUBLE HANDHOLES STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
01-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
01-02 01-05	TRAFFIC SIGNAL GROUNDING AND BONDING STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
01-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
06-01 01-01	TRAFFIC SIGNAL MOUNTING DETAILS DETECTOR LOOP INSTALLATIONS
01 01	ICDOT STANDARDS
	LUDUI SIANDARDS

FCDOI 214MD4KD2

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PERIMETER EROSION BARRIER INSTALLATION
CURB RAMPS WITH TRAFFIC SIGNAL POSTS AND MAST ARMS
CONCRETE WASHOUT FACILITIES
DIRECTIONAL INDICATOR BARRICADES
TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
TYPE C (SPECIAL) FOUNDATION FOR TRAFFIC SIGNAL CONTROLLER
CABINET AND UPS CABINET
VIDEO DETECTION DETAILS

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 CITIES OF WAUKEGAN AND ZION: THE VILLAGE OF BEACH PARK; THE LAKE COUNTY DIVISION OF TRANSPORTATION; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION: AND ALL ADDENDA THERETO SHALL GOVERN THIS

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

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 JULLIE. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY COMPANIES UNDERGROUND FACILITIES.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF 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 TO MOWED AWNS SHALL BE REPLACED WITH AN APPROVED SOD IN ACCORDANCE TO STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE TH 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 A STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

NE 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 LITHLITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

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

			C	ONTROL POINT TAI	BLE	
POINT .	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
13	2087130.47	1120284.33	655,78	CP-FXCN-11	357+84.76	41.48°L
300	2074705.43	1120350.34	632.91	CP-SXTC-300	484+80.81	60.97'L
301	2075479.03	1120255.12	635.66	CP-SXSW-301	477+08.62	45.09'L
302	2076157.91	1120324.81	633.13	CP-SXSW-302	470+29.69	24.93'L
303	2077317.47	1120299.36	633.91	CP-SXTC-303	458+69.29	19.61'L
304	2078675.00	1120268.83	633.32	CP-SXTC-304	445+11.74	19.82°L
305	2080513.52	1120087.76	639.60	CP-SXTC-305	426+60,90	21.05°L
306	2081362.82	1119858.45	634,64	CP-SXSW-306	417+83.83	28.85'R
307	2083092.81	1119591.49	660.06	CP-SXSW-307	400+31.95	41.60'R
308	2083767.26	1119516.78	668.93	CP-SXCN-308	393+54,66	1.21°L
309	2086291.46	1119863.23	633.65	CP-SXTC-309	367+18.68	37.12'L
310	2087104.44	1120286.10	654,49	CP-SXSW-310	358+07.44	52.19°L
311	2088418.08	1120577.73	645.39	CP-SXTC-311	344+68.84	32.92'R
312	2089110,47	1120889.57	638.02	CP-SMN-312	337+11.42	34,43'R
314	2092340.06	1121548.27	630.35	CP-SXTC-314	303+59.76	36,25'R
315	2093196.06	1121590,02	630,67	CP-SMN-315	295+03,93	30.40'L
316	2095396.85	1121340.86	633.15	CP-SMN-316	272+90.13	31,53'R
317	2096337.34	1121285.77	634.46	CP-SMN-317	263+50.32	32.37'R
318	2097681.79	1121280.03	634.51	CP-SMN-318	250+05.95	31.44'R
319	2098330.84	1121277.09	633.85	CP-SMN-319	243+56.90	31,87'R

			C	ONTROL POINT TA	BLE	
POINT .	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
320	2099581.61	1121353.79	634.37	CP-SXTC-320	231+06.77	49.97'L
321	2100139.76	1121272.25	636.25	CP-SMN-321	225+48.85	37.13′R
322	2076754.68	1120306.56	635.70	CP-SXTC-322	464+32.11	19.24'L
323	2078285.12	1120281.41	631.96	CP-SXTC-323	449+01.83	19.85′L
400	2076540.99	1120264.16	635,47	CP-XSW-400	466+45.25	25.84'R
401	2077032.33	1120302.94	634.82	CP-XTC-401	461+54,46	19.34'L
402	2077715.56	1120294.11	633.10	CP-XTC-402	454+71.16	19.55'L
403	2078025.99	1120249.55	632.55	CP-XTC-403	451+59.89	19.16'R
404	2078479.99	1120235,65	632.85	CP-XTC-404	447+05.59	19.62'R
405	2078923.58	1120221.46	634.44	CP-XTC-405	442+61.76	19.49'R
406	2079242.80	1120250.03	635.33	CP-XTC-406	439+43,64	19.47'L
407	2079466.85	1120203.68	636,07	CP-XTC-407	437+18.20	19.58'R
408	2079714.29	1120234.68	636.76	CP-XTC-408	434+71.91	19.50°L
409	2080108.28	1120178.69	638.09	CP-XTC-409	430+76.20	19.64°L
410	2080818.53	1120016.47	638.76	CP-XTC-410	423+47,65	19.38'L
411	2081092.53	1119954.38	632.49	CP-XTC-411	420+66,86	19.71'L
412	2081475,86	1119891,85	636.21	CP-XTC-412	416+76.35	19.69°L
413	2081728.69	1119857.61	640.91	CP-XTC-413	414+21.21	19.45'L
414	2082163,42	1119797.01	647.96	CP-XTC-414	409+82.41	19.81'L
415	2082502.63	1119751.26	645.97	CP-XTC-415	406+40.26	22.98'L

POINT =	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
416	2083175.92	1119946.23	651.98	CP-XCN-416	400+10.68	322.12'L
417	2083134.25	1119440.81	658.99	CP-XSW-417	399+65,38	182.99'R
418	2083448.22	1119579,55	667.38	CP-XCN-418	396+79.74	7.63'L
419	2084159.59	1119482.57	661.76	CP-XTC-419	389+63.97	35.51′L
420	2084280.07	1119455.89	662.33	CP-XSW-420	388+40.56	35.90'L
421	2084629.26	1119343.75	669.74	CP-XTC-421	384+78.32	28.14'R
422	2085007.24	1119429.66	669,61	CP-XSW-422	380+95.21	34.03'L
424	2085769.88	1119599.37	644,25	CP-XTC-424	373+06.45	28.63'L
425	2086038.39	1119661.85	634.07	CP-XTC-425	370+35.36	28.56'R
426	2086103.29	1120054.14	633.70	CP-XSW-426	368+00.58	292.36'L
427	2086534.37	1119993.64	640.14	CP-XSW-427	364+43.00	43.72'L
428	2086861.55	1120159.48	650.39	CP-XSW-428	360+76,20	43.75'L
7366	2083129.40	1119566.96	660.90	CP-XSW-3-BO	399+91.71	59.52'R

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

ANY EXPLORITORY POTHOLING FOR EXISTING BELOW GRADE UTILITIES IN HARD SURFACES OR GRASSED AREAS SHALL BE INCLUDED IN THE COST OF THE CONTRACT. ALL POTHOLE SHALL BE FILLED WITH SAND OR BENTONITE CHIPS AS APPROVED BY THE ENGINEER.

GHA #4571-80

FILE NAME =	USER NAME = ZWallsten	DESIGNED - DPB	REVISED -			10712			S12 32			F.A.P.	SECTION	COUNTY	TOTAL	SHEE
D161A55-002-gennote.dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS		INDE	X OF S	SHEETS	6 & GE	NERAL N	IOTES	RTE.		COUNTY	SHEETS	5 NO.
	PLOT SCALE = 1:28	CHECKED - DPB	REVISED ~	DEPARTMENT OF TRANSPORTATION	1							2736	12-00999-29-00-TL	LANE	73 CT NO	CLAFE
\$MODELNAME\$	PLOT DATE = 9/3/2014	DATE - 2/19/2014	REVISED -	DEFAITMENT OF THANSFORTATION	SCALE: NONE	SHEET	OF	F	SHEETS	F.A.P. SECTION COUNTY	JI NO.	61A55				

		LOCA	ATION	SHERIDAN ROAD AT	AT	(SHERIDAN RD)	(SHERIDAN RD)									IL 137 (SHERIDAN RD)			
	SUMMARY OF QUANTITIES		DF	GRAND AVENUE	GLEN FLORA AVENUE	AT GREENWOOD	AT MIRAFLORES	YORK HOUSE	BEACH ROAD	AT WADSWORTH	AT 34TH STREET	AT 33RD STREET	AT 31ST STREET	AT 29TH STREET	AT 27TH STREET	AT 25TH STREET	AT 23RD STREET	AT IL 173	FROM GRAND AV
	SUMMANT OF GUARTITIES	wo	ORK			AVENUE	AVENUE	ROAD		ROAD			2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		- ATS RESCRIPT	(SHILOH BLVD)	7 Line: 1-7	(21ST ST)	TO WADSWORTH ROAD
		UNIT	TOTAL								CONSTRUCT	TION CODES 021							
CODE NO.	ITEM		DUANTIT								TRAFFIC	SIGNALS							
							2												
20200100	EARTH EXCAVATION	CU YD	9		9														
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	18		18														
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	890		890														
		101312																	
42400800	DETECTABLE WARNINGS	SO FT	88		88														
																			-
44000300	DRIVEWAY PAVEMENT REMOVAL	SO YD	18		18														
44000200	DATACHAL PAYEMEN NEMOTAL	30 10	10		10											-			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	125		125												5		-
44000600	SIDEWALK REMOVAL	SO FT	830		830														
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	10		10														
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	115		115														
										(2000) -3-0.00									
		-																	-
67100100	MODIL IZATION		 																
6/100100	MOBILIZATION	L SUM	1																
							T0 5445.05												
72000100	SIGN PANEL - TYPE 1	SO FT	40.50				19.50	21.00											
1																			

GHA #4571.800

FILE NAME =	USER NAME = ZWallsten	DESIGNED - DPB	REVISED -
D161A55-003-S00.dgn		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1:20	CHECKED - DPB	REVISED -
\$MODELNAME\$	PLOT DATE = 8/14/2014	DATE - 2/19/2014	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

ľ	SUMMAR	Y OF Q	JANTITIES	(SHEET	1 OF 8)	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
				eren meneral and an area	COMME (A.C.)	2736	12-00999-29-TL	LAKE	73	3
								CONTRAC	T NO.	61A55
SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

	SUMMARY OF QUANTITIES	1400000000	ATION OF	SHERIDAN ROAD AT GRAND AVENUE	SHERIDAN ROAD AT GLEN FLORA AVENUE		IL 137 (SHERIDAN RD) AT MIRAFLORES AVENUE	IL 137 (SHERIDAN RD) AT YORK HOUSE ROAD	IL 137 (SHERIDAN RD) AT BEACH ROAD	IL 137 (SHERIDAN RD) AT WADSWORTH ROAD	AT	AT	AT	IL 137 (SHERIDAN RD) AT 29TH STREET	IL 137 (SHERIDAN RD) AT 27TH STREET	IL 137 (SHERIDAN RD) AT 25TH STREET (SHILOH BLVD)	AT	IL 137 (SHERIDAN RD AT IL 173 (21ST ST)	INTERCONNEC IL 137 (SHERIDAN R FROM GRAND TO
		wo	ORK						L		CONSTRUCT	TION CODES				1 31112011 52151		12131 317	WADSWORTH RO
2005 NO	1750	UNIT	TOTAL								00	021							
CODE NO.	ITEM	 	TITHAUG	21. 312 - 111 - 1 1							TRAFFIC	SIGNALS							T
72000200	SIGN PANEL - TYPE 2	SO FT	60.00				15. 00	45. 00											
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	137		137														
78300100	PAVEMENT MARKING REMOVAL	SO FT	70		70														
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	3		1		1	1											
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	25, 385		198		636	704											23, 847
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	132		36		63	33											
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	60				39	21											
81028230	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	102		53		21	28											
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	898		283		294	321											
81400100	HANDHOLE	EACH	51		2		4	4											41
81400200	HEAVY-DUTY HANDHOLE	EACH	5				2	3											
81400300	DOUBLE HANDHOLE	EACH	6		2		2	2											
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4		4									11-11-1102					
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	12	1		1			1	1	1	1	1	1	1	1	1	1	

FILE NAME = USER NAME = ZWallsten DESIGNED - DPB REVISED -SUMMARY OF QUANTITIES (SHEET 2 OF 8) SECTION D161A55-004-SOQ.dgn REVISED -STATE OF ILLINOIS DRAWN - ZCW 12-00999-29-TL PLOT SCALE = 1:20 CHECKED - DPB REVISED -DEPARTMENT OF TRANSPORTATION PLOT DATE = 8/14/2014 DATE - 2/19/2014 REVISED -SCALE: NONE SHEET OF SHEETS STA. TO STA.

GHA #4571.800

		100000	ATION OF	SHERIDAN ROAD AT GRAND AVENUE	SHERIDAN ROAD AT GLEN FLORA AVENUE	IL 137 (SHERIDAN RD) AT GREENWOOD	IL 137 (SHERIDAN RD) AT MIRAFLORES	IL 137 (SHERIDAN RD) AT YORK HOUSE	IL 137 (SHERIDAN RD) AT BEACH ROAD	IL 137 (SHERIDAN RD) AT WADSWORTH	AT	IL 137 (SHERIDAN RD) AT 33RD STREET	AT	IL 137 (SHERIDAN RD) AT 29TH STRFFT	IL 137 (SHERIDAN RD) AT 27TH STREET	AT	IL 137 (SHERIDAN RD) AT 23RD STREET	IL 137 (SHERIDAN RD AT IL 173	INTERCONNECT IL 137 (SHERIDAN RO FROM GRAND A
	SUMMARY OF QUANTITIES	1	ORK		ATEMOL	AVENUE	AVENUE	ROAD	BEACH ROAD	ROAD	JATH STREET	JOHN STREET	JIST SINCET	ZJIH JINEET	ZIIN SIKEET	(SHILOH BLVD)	ZJAD JINEET	(21ST ST)	TO WADSWORTH RO
		UNIT	TOTAL									ION CODES							
CODE NO.	ITEM	UNIT	DUANTIT									SIGNALS							
85100500	PAINT NEW SIGNAL POST	EACH	6		2		4												
85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FEET	EACH	2				2												
85100800	PAINT NEW COMBINATION MAST ARM POLE, UNDER 40 FOOT	EACH	5		4		1												
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 IC	FOOT	25, 820																25, 820
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	955		955														
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3, 635		1, 452	352	512	754	139	73					264			89	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3, 541		1,218		1, 427	896											
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2, 152		342		611	1, 199											
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2, 703				1, 249	1, 454											
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	311		220		34	57											
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 IC	FOOT	453					453											
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	5		1		3		1										
87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	2					2											
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4		1		1	2											

GHA #4571.800

FILE NAME =	USER NAME = ZWallsten	DESIGNED	-	DPB	REVISED -
D161A55-005-S00.dgn		DRAWN	-	ZCW	REVISED -
	PLOT SCALE = 1:20	CHECKED	-	DPB	REVISED -
MODELNAME	PLOT DATE = 8/14/2014	DATE	-	2/19/2014	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	SUMMAI	RY OF Q	UANTITIES	(SHEET 3	OF 8)	F.A.P. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
					17 34-x	2736	12-00999-29-TL	LAKE	73	5
								CONTRAC	T NO.	61A55
SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

	SUMMARY OF QUANTITIES	72272	TION OF	SHERIDAN ROAD AT GRAND AVENUE	AT	IL 137 (SHERIDAN RD) AT GREENWOOD AVENUE	IL 137 (SHERIDAN RD) AT MIRAFLORES AVENUE	IL 137 (SHERIDAN RD) AT YORK HOUSE ROAD	IL 137 (SHERIDAN RD) AT BEACH ROAD	IL 137 (SHERIDAN RD) AT WADSWORTH ROAD	IL 137 (SHERIDAN RD) AT 34TH STREET	IL 137 (SHERIDAN RD) AT 33RD STREET	AT	AT	IL 137 (SHERIDAN RD) AT 27TH STREET	IL 137 (SHERIDAN RD) AT 25TH STREET (SHILOH BLVD)	IL 137 (SHERIDAN RD) AT 23RD STREET	IL 137 (SHERIDAN RD AT IL 173 (21ST ST)	INTERCONNECT- IL 137 (SHERIDAN RD) FROM GRAND AV TO
		wo	RK							CONTROLLAR	CONSTRUCT	TION CODES							WADSWORTH ROAD
CODE NO	1754	UNIT	TOTAL								00	021							A-Available Available
CODE NO.	ITEM		DUANTIT								TRAFFIC	SIGNALS							T
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1					1											
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1				1												
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1					1											
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1					1											
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1				1												
87702840	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	2		2														
87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1		1														
87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1				1												
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	2		1			1											
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	44		8		16	20											
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	12		4		4	4											
87800400	CONCRETE FOUNDATION. TYPE E 30-INCH DIAMETER	FOOT	20				10	10											
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	104		60		22	22											
87900200	DRILL EXISTING HANDHOLE	EACH	8																8

GHA #4571.800

FILE NAME =	USER NAME = ZWollsten	DESIGNED	-	DPB	REVISED -
D161A55-006-S0Q.dgn		DRAWN	-	ZCW	REVISED -
	PLOT SCALE = 1:20	CHECKED	-	DPB	REVISED -
MODELNAME	PLOT DATE = 8/14/2014	DATE	-	2/19/2014	REVISED -

ST	ATE	OF	ILLINOIS
DEPARTME	NT	0F	TRANSPORTATION

SCALE: NONE

- 8	SUMMAR	Y OF QU	JANTITIES	(SHEET	4 OF 8)	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
					20.79007 - 63**	2736	12-00999-29-TL	LAKE	73	6
								CONTRAC	T NO. 6	61A55
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		-V

		100	ATION	SHERIDAN ROAD	SHERIDAN ROAD AT	(SHERIDAN RD)	(SHERIDAN RD)	(SHERIDAN RD)	(SHERIDAN RD)	IL 137 (SHERIDAN RD)	IL 137 (SHERIDAN RD)	(SHERIDAN RD)	IL 137	IL 137 (SHERIDAN RD)	IL 137	IL 137 (SHERIDAN RD)	IL 137 (SHERIDAN RD)	(SHERIDAN RD)	INTERCONNECT-
		1 200	ATTON	GRAND AVENUE		AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT AT	AT AT	(SHERIDAN RD)
	SUMMARY OF QUANTITIES		OF		AVENUE	GREENWOOD	MIRAFLORES	YORK HOUSE	BEACH ROAD	WADSWORTH	34TH STREET	33RD STREET	31ST STREET	29TH STREET	27TH STREET	25TH STREET	23RD STREET	IL 173	FROM GRAND AV
	33,000	l w	ORK			AVENUE	AVENUE	ROAD		ROAD						(SHILOH BLVD)		(21ST ST)	TO WADSWORTH ROAD
T .			J. 1.1.								CONSTRUCT	TION CODES							WADSWORTH NOAD
			TOTAL								00	021							
CODE NO.	ITEM	-	DUANTITY	-							TRAFFIC	SIGNALS							
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	20		7		6	5	2										
	MAST ANM MODITED																		
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8		3		3		2										
	BURGUET MODITED	+																	
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3				ŀ	3											
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1					1											
																(2.700 - 1000 1000	7		
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5		1		2	2											
									-										
	21000 UE10 150 1 5105 5 6507100																		
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		1		2	2		4									
	CICHAL HEAD LED OFFICE 7 CECTION																		
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1						1										
										7 ****									
-	SIGNAL HEAD LED 3-EACE 3-SECTION		-						1 C (45.0										
88030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1						1										
															1				
	PEDESTRIAN SIGNAL HEAD LED 1-EACE																		
88102717	PEDESTRIAN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6		4				2										
																	SON NO. 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18		
00100747	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE.	E4011	_											***************************************					
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2														
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	26		8		8	8	2										
00200210	THAT I C STORAL BACKFLATE, LOUVERED, ALUMINUM	LACH	20				0	0											-
88500100	INDUCTIVE LOOP DETECTOR	EACH	98			11	6	7	3	12	7	8	6	8	8	6	6	10	
00300100	1.000.17E EOO DETECTOR	EMOIT	30							12		0			0			10	-
88600100	DETECTOR LOOP. TYPE I	FOOT	1,096				477	619											
		1.007																	
88700200	LIGHT DETECTOR	EACH	7		2		2	3											
		15555																<u> </u>	
																			1

FILE NAME =	USER NAME = ZWallsten	DESIGNED - DPB	REVISED -
D161A55-007-S00.dgn		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1:20	CHECKED - DPB	REVISED -
MODELNAME	PLOT DATE = 8/14/2014	DATE - 2/19/2014	REVISED -

SCALE: NONE

							(SHA #45	71.800
SUMMAR	Y OF QU	JANTITIES	(SHEET !	5 OF 8)	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
				20 (A)P (B)#	2736	12-00999-29-TL	LAKE	73	7
							CONTRA	CT NO.	61A55
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

	SUMMARY OF QUANTITIES		AT I ON	SHERIDAN ROAD AT GRAND AVENUE	AT	IL 137 (SHERIDAN RD) AT GREENWOOD AVENUE	IL 137 (SHERIDAN RD) AT MIRAFLORES AVENUE	IL 137 (SHERIDAN RD) AT YORK HOUSE ROAD	IL 137 (SHERIDAN RD) AT BEACH ROAD	IL 137 (SHERIDAN RD) AT WADSWORTH ROAD	IL 137 (SHERIDAN RD) AT 34TH STREET	AT	IL 137 (SHERIDAN RD) AT 31ST STREET	IL 137 (SHERIDAN RD) AT 29TH STREET	IL 137 (SHERIDAN RD: AT 27TH STREET	IL 137 (SHERIDAN RD) AT 25TH STREET (SHILOH BLVD)	IL 137 (SHERIDAN RD) AT 23RD STREET	IL 137 (SHERIDAN RI AT IL 173 (21ST ST)	(SHERIDAN RD) FROM GRAND AV TO
			ORK									TION CODES							WADSWORTH ROAD
CODE NO.	ITEM	UNIT	TOTAL								TRAFFIC	SIGNALS							
88700300	LIGHT DETECTOR AMPLIFIER	EACH	3		1		1	1											
88800100	PEDESTRIAN PUSH-BUTTON	EACH	10		8				2										
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3		1		1	1											
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	10			1				1	1	1	1	1	1	1	1	1	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	14		1	1	1	1	1	1	1	1	1	1	1	1	1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	14		5		4	5											-
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	20		8		6	6											
XX00 8391	ELECTRIC CABLE IN CONDUIT, VIDEO NO. 20 4C	FOOT	1,634		249	352	272	196	139	73					264			89	
XX00.8683	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 2-1C NO. 10	FOOT	717		717														
XX008396	CAMERA MOUNTING ASSEMBLY. (SPECIAL)	EACH	1												1				<u> </u>
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1, 309		239		512	558											
X0325462	MEDIA CONVERTER	EACH	2																2
X6700405	ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	7																
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1																

IMPORTANT CONSTRUCTION NOTE:

THE MEDIA CONVERTERS SHALL BE INSTALLED IN THE EXISTING LAKE COUNTY DIVISION OF TRANSPORTATION COMMUNICATION CABINET LOCATED AT IL 131 (GREEN BAY RD) AND WASHINGTON STREET. THE MAINTENANCE OF THE EXISTING COMMUNICATION CABINET SHALL BE INCLUDED IN THE MEDIA CONVERTER PAY ITEM AND NO EXTRA COMPENSATION SHALL BE ALLOWED.

GHA #4571.800

FILE NAME =	USER NAME = ZWallsten	DESIGNED - DPB	REVISED -
D161A55-008-S00.dgn		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1:20	CHECKED - DPB	REVISED -
MODELNAME	PLOT DATE = 8/14/2014	DATE - 2/19/2014	REVISED -

STATI	E 01	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE: NONE

SUMMAR	Y OF Q	JANTITIES	(SHEET (6 OF 8)	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
			-01840-0-00-00-00-00-00-00-00-00-00-00-00-00	20 mester = 40 €C	2736	12-00999-29-TL	LAKE	73	8
							CONTRAC	T NO. 6	51A55
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

	SUMMARY OF QUANTITIES		ATION OF	SHERIDAN ROAD AT GRAND AVENUE	AT	(SHERIDAN RD) AT GREENWOOD	AT MIRAFLORES	IL 137 (SHERIDAN RD) AT YORK HOUSE	IL 137 (SHERIDAN RD) AT BEACH ROAD	AT WADSWORTH	IL 137 (SHERIDAN RD) AT 34TH STREET	AT	IL 137 (SHERIDAN RD) AT 31ST STREET	AT	IL 137 (SHERIDAN RD) AT 27TH STREET	AT 25TH STREET	IL 137 (SHERIDAN RD) AT 23RD STREET	AT IL 173	INTERCONNECT- IL 137 (SHERIDAN RD) FROM GRAND AV
	SUMMAN ST CONTINES	wo	ORK			AVENUE	AVENUE	ROAD		ROAD	CONSTRUCT	ION CODES				(SHILOH BLVD)		(21ST ST)	TO WADSWORTH ROAD
		UNIT	TOTAL								00	21							
CODE NO.	ITEM	_	DUANTITY								TRAFFIC	SIGNALS							
	- Andrews - Andr																		
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	14		1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
x8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	4		1		1	1	1										
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	1	1															
X8730571	ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	1,634		249	352	272	196	139	73					264			89	
X0326885	VIDEO DETECTION SYSTEM	EACH	1		1														
xx005800	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM	EACH	10			1				1	1	1	1	1	1	1	1	1	
XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4		4														
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	8		1	1	1	1	1	1					1			1	
XX006655	LAYER II (DATALINK) SWITCH	EACH	14		1	1	1	1	1	1	1	1	1	1	1	1	1	1	
XX007017	TERMINATE FIBER IN CABINET	EACH	174																174
XX008246	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	25, 937																25, 937
XX008251	SPLICE FIBER IN CABINET	EACH	6																6
XX008253	VIDEO ENCODER	EACH	8		1	1	1	1	1	1					1			1	
Z0010688	CAMERA MOUNTING ASSEMBLY	EACH	3			1				1								1	

GHA #4571,800

FILE NAME =	USER NAME = ZWellsten	DESIGNED - DPB	REVISED -
D161A55-ØØ9-S0Q.dgn		DRAWN - ZCW	REVISED -
1	PLOT SCALE = 1:20	CHECKED - DPB	REVISED -
\$MODELNAME\$	PLOT DATE = 8/14/2014	DATE - 2/19/2014	REVISED -

STATI	E 01	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	SUMMAR	Y OF QI	JANTITIES	(SHEET	7 OF 8)	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
					D 175 175	2736	12-00999-29-TL	LAKE	73	9
								CONTRAC	T NO.	61A55
NONE	SHEET	OF	SHEETS	STA	TO STA.		THE THOSE CON	ATD DOO IFCT		

		10000	N-12-42-15	SHERIDAN ROAD			IL 137	IL 137	IL 137	IL 137	IL 137	IL 137	IL 137	IL 137	IL 137	IL 137	IL 137	IL 137	INTERCONNECT
		LOC	ATION	GRAND AVENUE		(SHERIDAN RD)	SHERIDAN RD	(SHERIDAN RD)	(SHERIDAN RD)	(SHERIDAN RD)	(SHERIDAN RD)	(SHERIDAN RD)	(SHERIDAN RD)		IL 137 (SHERIDAN RD				
			OF	GRAND AVENUE	AVENUE	GREENWOOD	MIRAFLORES	YORK HOUSE	BEACH ROAD	WADSWORTH	34TH STREET			1000 ************	27TH STREET			IL 173	FROM GRAND A
	SUMMARY OF QUANTITIES		01		AVENUE	AVENUE	AVENUE	ROAD	DEACH NOAD	ROAD	Jann Jineer	JOHN STREET	Jan Jineer	ZJIII JIIIEE		(SHILOH BLVD)	ZOND STREET	(21ST ST)	TO TO
		W	ORK				etterations.	258700		NEWS 2		Lawrence and the same						venterials cautai	WADSWORTH ROAD
			1				Targetti de de la companya de la co					TION CODES							
CODE NO.	1 TEM	UNIT	TOTAL									021 SIGNALS							
CODE NO.	11Cm	-	DUANTIT				1	T	Γ		TRAFFIC	SIGNALS	I				~		1
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.40																51.40
																			5.1.10
70077046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	14																14
20033046	RE-OFTIMIZE TRAFFIC STONAL STSTEM LEVEL Z	EACH	14																14
												-							+
¥ Z0042300	PORTLAND CEMENT CONCRETE SIDEWALK CURB	FOOT	55		55														
			-																
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3		1		1	1											
7007//00	Thurster	. 10. 10	1 000																
1200 16600	TRAINEES	HOUR	1,000																1
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000																
1			250000																

PLOT DATE = 8/14/2014

DATE - 2/19/2014

REVISED -

DESIGNED - DPB
DRAWN - ZCW F.A.P. RTE. 2736 REVISED -USER NAME = ZWallsten SECTION SUMMARY OF QUANTITIES (SHEET 8 OF 8) STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION D161A55-Ø1Ø-SOQ.dgn REVISED -12-00999-29-TL PLOT SCALE = 1:20 CHECKED - DPB REVISED -\$MODELNAME\$ TO STA.

SCALE: NONE

SHEET

OF SHEETS STA.

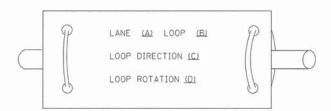
GHA #4571.800

^{*}SPECIALTY ITEM # CONSTRUCTION TYPE CODE 0042

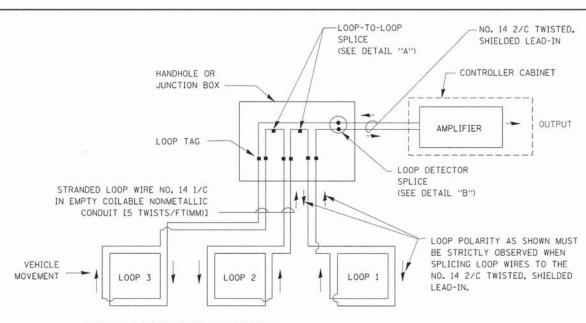
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

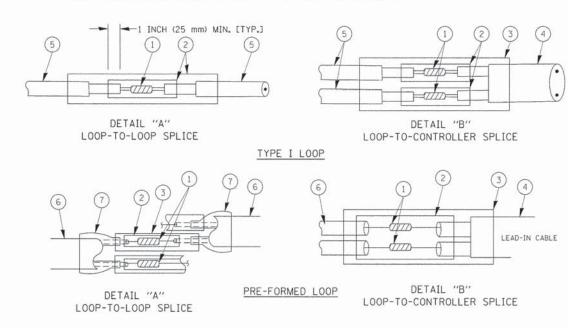


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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



LOOP DETECTOR SPLICE

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

SCALE:

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

GHA #4571.800

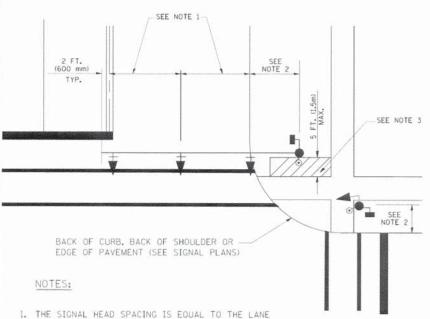
FILE NAME = USER NAME = ZWallsten DESIGNED - DAD REVISED
DIGNOS-011-Details.dgn DRAWN - BCK REVISED
PLOT SCALE = 1:20 CHECKED - DAD REVISED
Default DATE = 8/14/2014 DATE - 10-28-09 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			DIS	TRICT ON	E		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	CTANDAD	n TD	AEEIC	CICNIAL	DESIGN DE	TAILC	2736	12-009999-29-TL	LAKE	73	11
	STANDAN	חות	AFFIL	SIGNAL	DESIGN DE	IAILS		TS-05	CONTRAC	T NO.	61A55
NONE	SHEET 1	OF	7	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

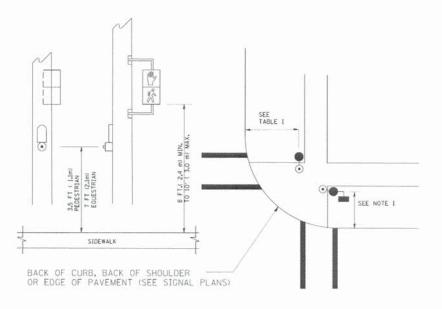
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



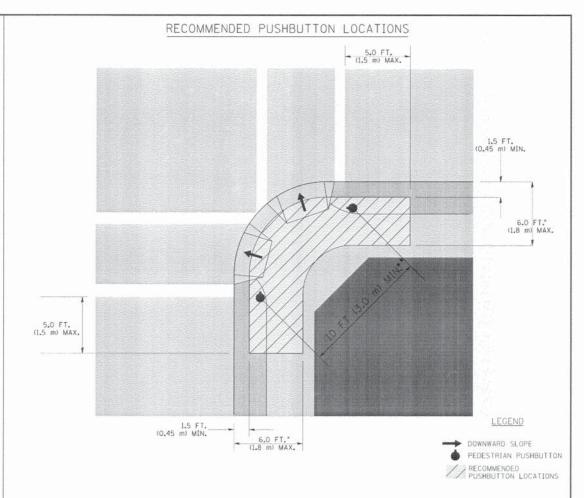
- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE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



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

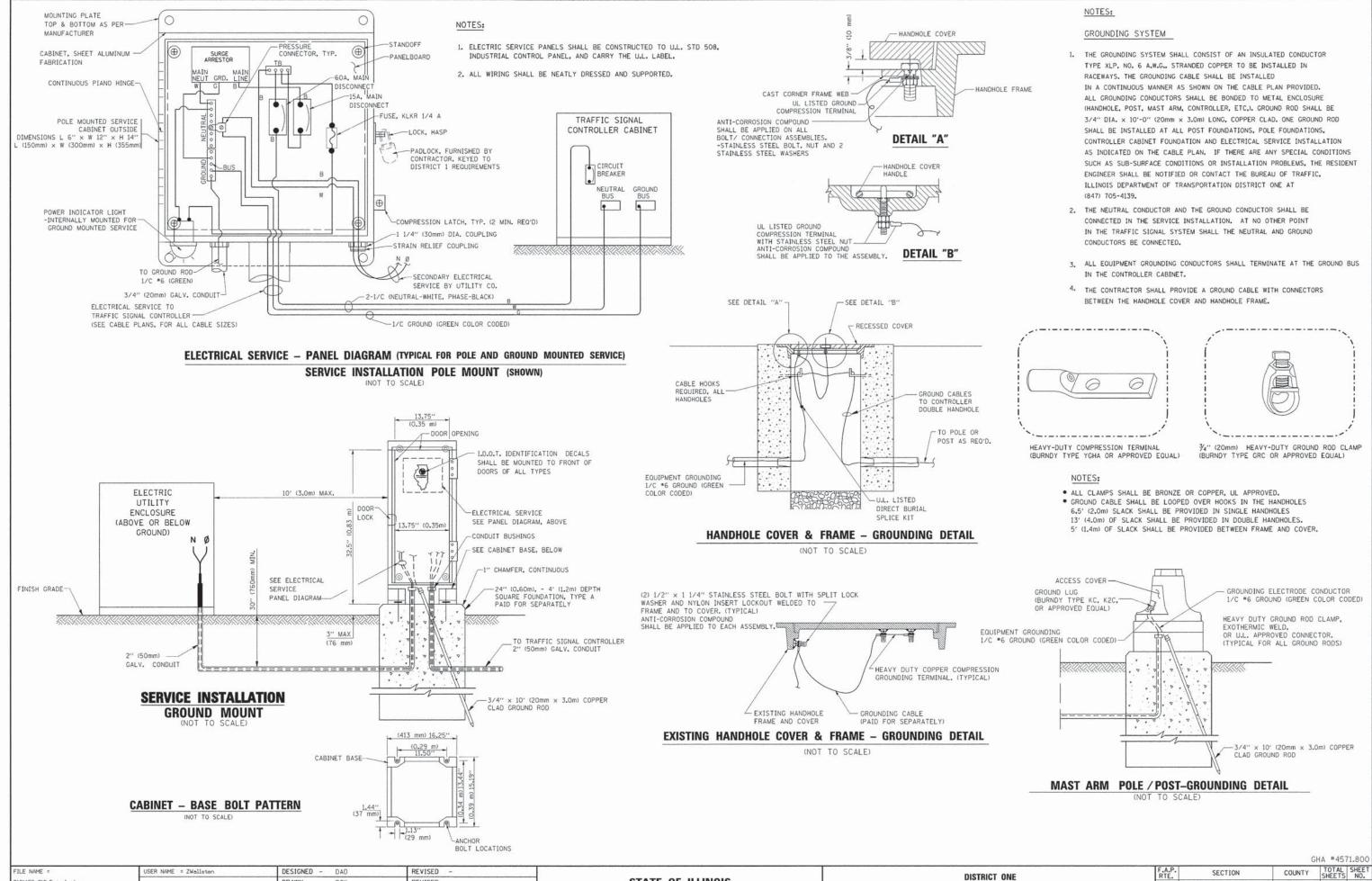
	TRAITIC STONAL EGGI WENT	011361
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1,8m)	SHOULDER 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.

GHA #4571.800

FILE NAME = USER NAME = ZWallster DESIGNED DAD REVISED TOTAL SHEE NO. SECTION COUNTY DISTRICT ONE 61A55-012-Details.dgr STATE OF ILLINOIS DRAWN BCK REVISED 2736 12-009999-29-TL LAKE 73 12 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CHECKED REVISED LOT SCALE = 1:20 DAD DEPARTMENT OF TRANSPORTATION CONTRACT NO. 61A55 TS-05 REVISED SCALE: NONE OF 7 SHEETS STA. SHEET 2 TO STA. LLINOIS FED. AID PROJECT



12-009999-29-TL LAKE 73 13 CONTRACT NO. 61A55

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

TO STA.

SHEET 3 OF 7 SHEETS STA.

SCALE: NONE

0161A55-013-Details.dgr

DRAWN

DATE

PLOT DATE = 8/14/2014

CHECKED

BCK

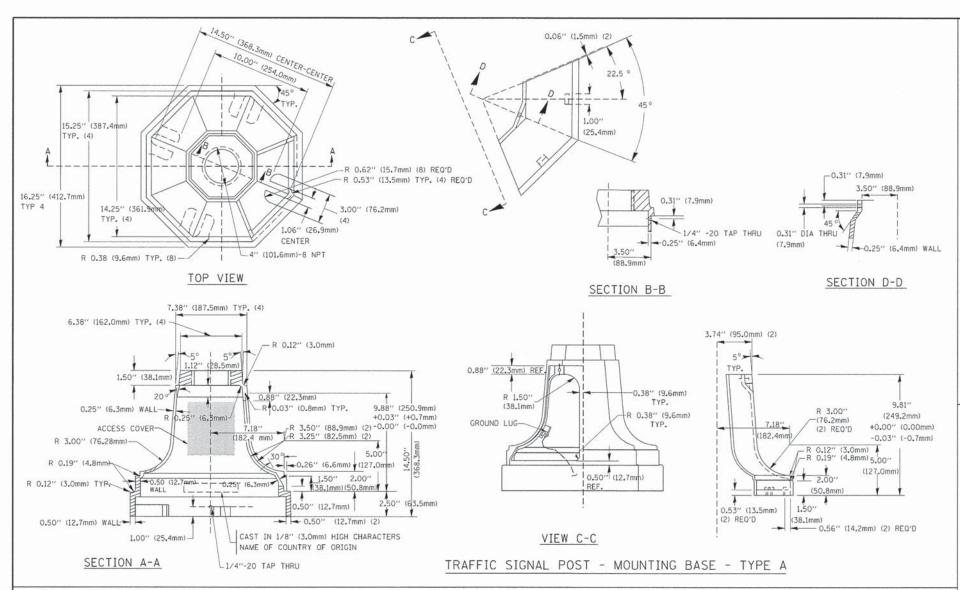
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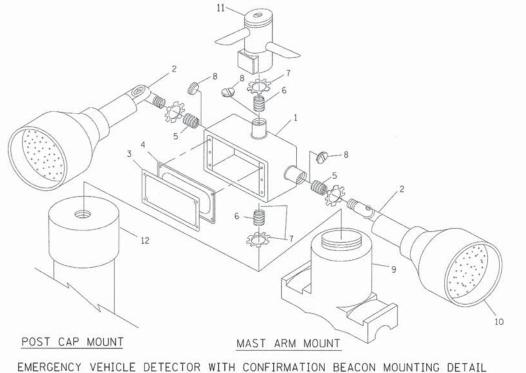
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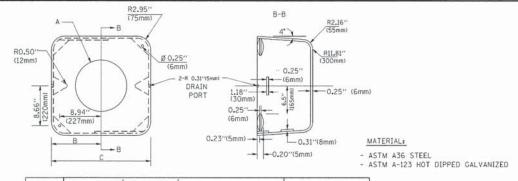




ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	1/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
- 11	DETECTOR UNIT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

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS "2 AND "11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM "9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 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.

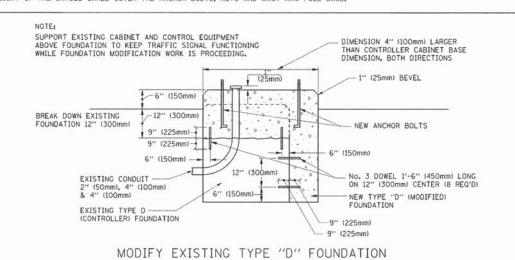


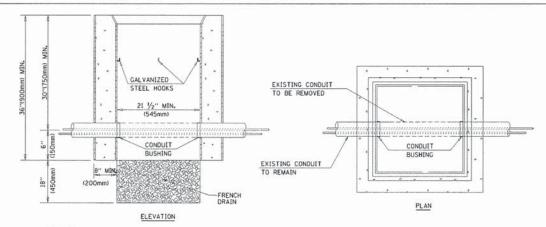
А	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

NOTES:

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





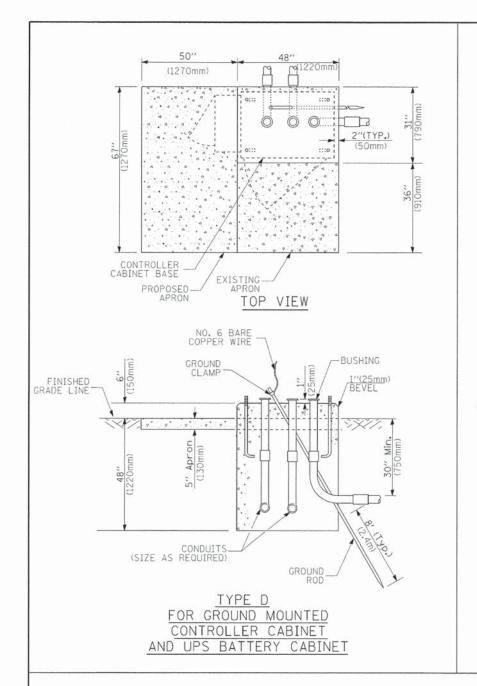
NOTES:

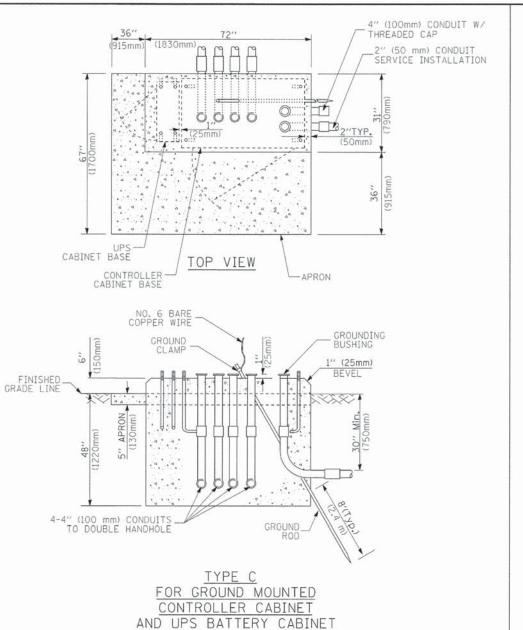
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

GHA #4571.800

FILE NAME =	USER NAME = ZWallsten	DESIGNED - DAD	REVISED -		DISTRICT ONE			F.A.P.	SECTION	COUNTY	TOTAL	SHEET
D161A55-Ø14-Details.dgn		DRAWN - BCK	REVISED -	STATE OF ILLINOIS				2736	12-009999-29-TL	LAKE	73	14
	PLOT SCALE = 1:20	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGNAL	N DETAILS	2130	TS-05	CONTRA	CT NO.	61A55
Default	PLOT DATE = 8/14/2014	PLOT DATE = 8/14/2014 DATE - 10-28-09 REVISED	REVISED -		SCALE: NONE	SHEET 4 OF 7 SHEETS STA.	TO STA.		ILLINOIS FED.		01 1101	11100





65" (SEE NOTE 4) (1651mm) 49" (SEE NOTE 3) 1245mm) 49" (SEE NOTE 5) 16" (406mm) (1118mm) (21" x 6" (64mm) (25mm) WOOD FRAMING (TYP.)
WOOD FRAMING (TYP.)
Ç====
TRAFFIC SIGNAL
CONTROLLER CABINET
UPS——
CABINET
34" (19mm) TREATED PHYWOOD DECK
2" × 6" (51mm x 152mm) TREATED WOOD
305mm)
2 S S S S S S S S S S S S S S S S S S S
4.88 MIN (3219 mmm)
<u> </u>
NOTES: 6" × 6" (152mm × 152mm)
NOTES: Control Contro
BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).

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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1,2m)

DEPTH OF FOUNDATION

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

NOTES:

- These foundation depths are for sites which have cohesive soils (clayer 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 most 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.

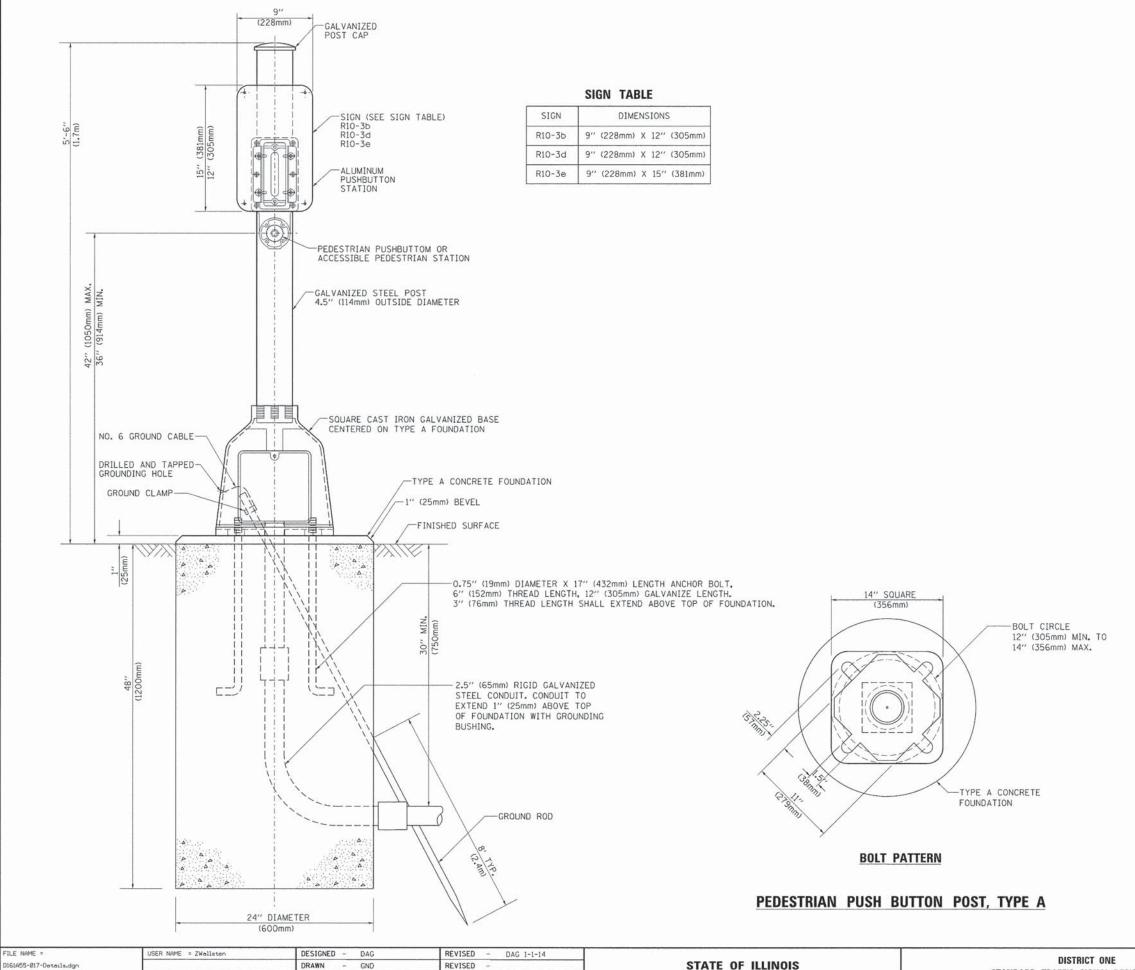
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

GHA #4571,800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL LEGEND

				National Section 1				54 300 CC			
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		\blacksquare	EMERGENCY VEHICLE LIGHT DETECTOR	_K ≪	©<	•	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		— <u>O</u> —	
RAILROAD CONTROL CABINET		R S	B► ◆E	CONFIRMATION BEACON	R _{O-} Q	o-0				d	
COMMUNICATIONS CABINET	CC R	ECC	CC	HANDHOLE	R⊠			COAXIAL CABLE			<u> </u>
MASTER CONTROLLER		[EMC]	MC	DEAVY DUTY HANDIOLE	R	(H)	H	VENDOR CABLE FOR CAMERA		-0	_v_
MASTER MASTER CONTROLLER	R UPS	EUPS	MMC UPS	HEAVY DUTY HANDHOLE DOUBLE HANDHOLE	R		NN.	COPPER INTERCONNECT CABLE,		~	
UNINTERRUPTIBLE POWER SUPPLY SERVICE INSTALLATION,				JUNCTION BOX	R		0	NO. 18 3 PAIR TWISTED, SHIELDED		-6-	-6-
(P) POLE OR (G) GROUND MOUNT	-□ <u>-</u> R	-O ^P	- ■ P	GALVANIZED STEEL CONDUIT	-			FIBER OPTIC CABLE NO. 62.5/125, MM12F		—(12F)—	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		-(24F)	-24F)-
STEEL MAST ARM ASSEMBLY AND POLE	R	0	•	AND CABLE			30-11-22-23-2 -2	FIBER OPTIC CABLE NO. 62-5/125.		*******	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	(NUMBER OF FIBERS & TYPE TO BE		- Ø-	——
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	^R O-⊐	O-X	• × · ·	COILABLE NONMETALLIC CONDUIT (EMPTY)		5	CNC	NOTED ON PLANS) GROUND ROD AT (C) CONTROLLER,			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R _Q	PIZI	PTZ	SYSTEM ITEM INTERSECTION ITEM		I	S	(H) HANDHOLE. (P) POST, (M) MAST ARM, OR (S) SERVICE		c _{ul} —	c _I II I →
SIGNAL POST	R	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R⊗	8	•	RELOCATE ITEM	RL			The additional decision of the additional and the a			
BETTER) 45 FOOT (13.7m) MINIMUM GUY WIRE	R	>	>	ABANDON ITEM 12" (300mm) TRAFFIC SIGNAL SECTION	A	R	R	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
SIGNAL HEAD	R	>	-	12 - 3500mm - That I to STONAL SECTION				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)	\rightarrow		- 2	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY	RMF		
SIGNAL HEAD WITH BACKPLATE	+t⊳ ^R	+1>	+-			R	R	AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	0-×		
SIGNAL HEAD OPTICALLY PROGRAMMED	R →	- >"p"	→ "P"	SIGNAL FACE		Š	Y G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O⊅'F''	O-D"F"	• → "F"			◆ ♀	◆Y ◆G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
PEDESTRIAN SIGNAL HEAD	- 0	-0	.1			R	R	SAMPLING (SYSTEM) DETECTOR	16.	[5]	S
PEDESTRIAN PUSHBUTTON DETECTOR	R		•	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		Č	Y G	EXISTING INTERSECTION LOOP DETECTOR		[P]	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS		APS			()	← Y ← G	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO EXISTING PREFORMED INTERSECTION LOOP DETECTOR	R		
ILLUMINATED SIGN "NO LEFT TURN"	R	9	•	104 (300-1) DESERBANG STORM WELL		"P"	"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	R	[PP]	
ILLUMINATED SIGN	R			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
"NO RIGHT TURN"	8	8		12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		[PS]	PS
DETECTOR LOOP, TYPE I		[_]		3 5 5							
PREFORMED DETECTOR LOOP		1 P 1	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		K	K	RAILROAD	SYMBO	LS	
MICROWAVE VEHICLE SENSOR	R [M]	MÞ	M	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		€ C	₽ C ★ D			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R V	[V]¤	 ◯		II.R -	Company of the Compan		RAILROAD CONTROL CABINET		EXE	<u> </u>
VIDEO DETECTION ZONE				RADIO INTERCONNECT	##50	##+0		RAILROAD CANTILEVER MAST ARM	2		IOI I
	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL	2	X o X	XOX
PAN, TILT, ZOOM CAMERA	PZ	PTZN	PTZ	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		_5_		STATE OF THE STATE			
WIRELESS DETECTOR SENSOR	RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		: A) = 1		CROSSING GATE		X0X>	X-X-
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			(1)	CROSSBUCK		≥	GHA #4 5
TILE NAME = USER NAME = ZWallsten 161A55-816-Details.dgn		ESIGNED - DAG/BCK RAWN - BCK	REVISED -	7 (STUDY CONT.)	OF ILLINOIS	:		DISTRICT ONE	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEETS
PLOT SCALE = 1:20		HECKED - DAD	REVISED -	DEPARTMENT (STANDARD TRAFFIC SIGNAL DESIGN DETAILS	2736	12-009999-29-TL TS-05	CONTRACT NO.

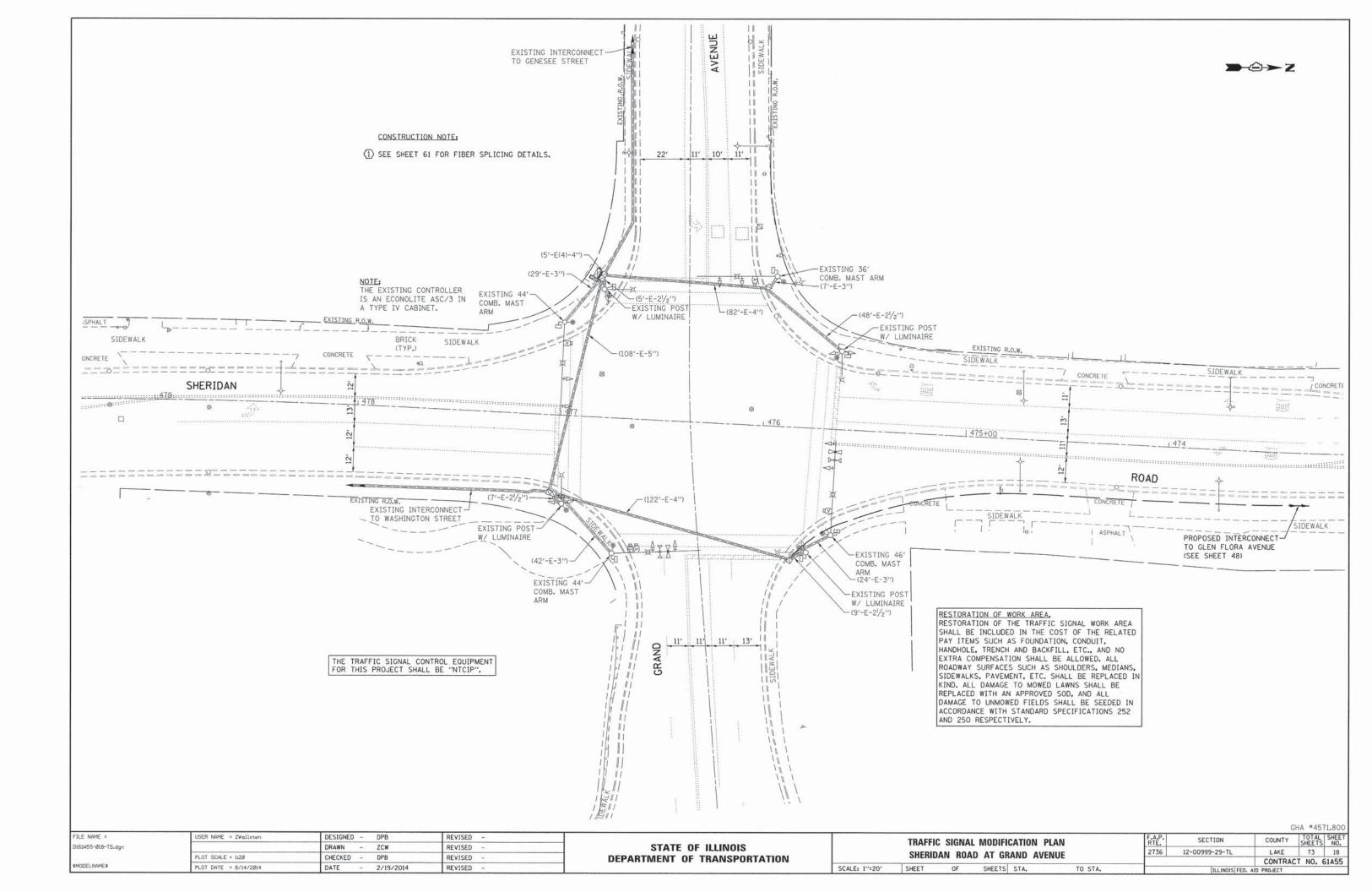


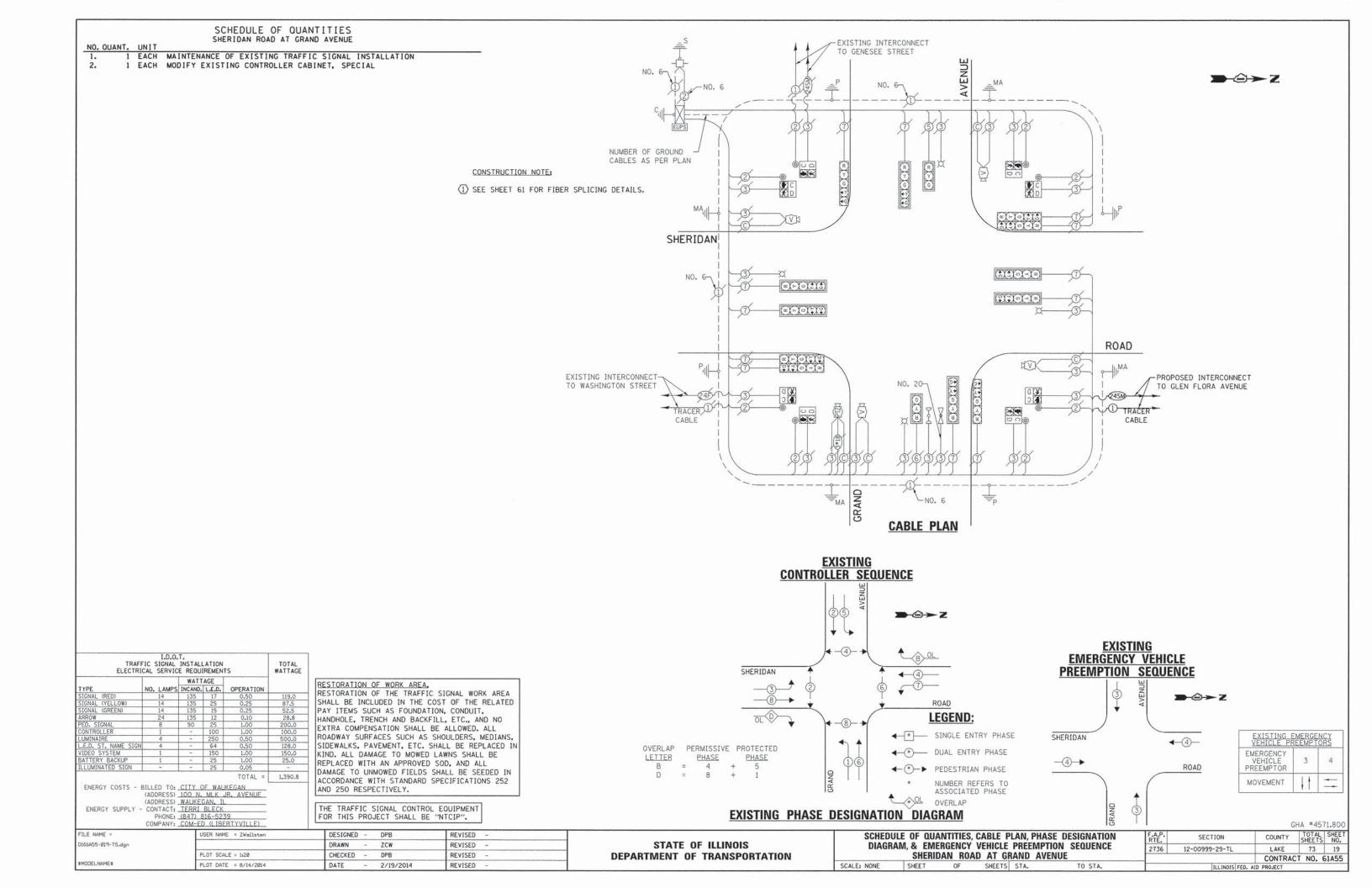
GHA #4571.800

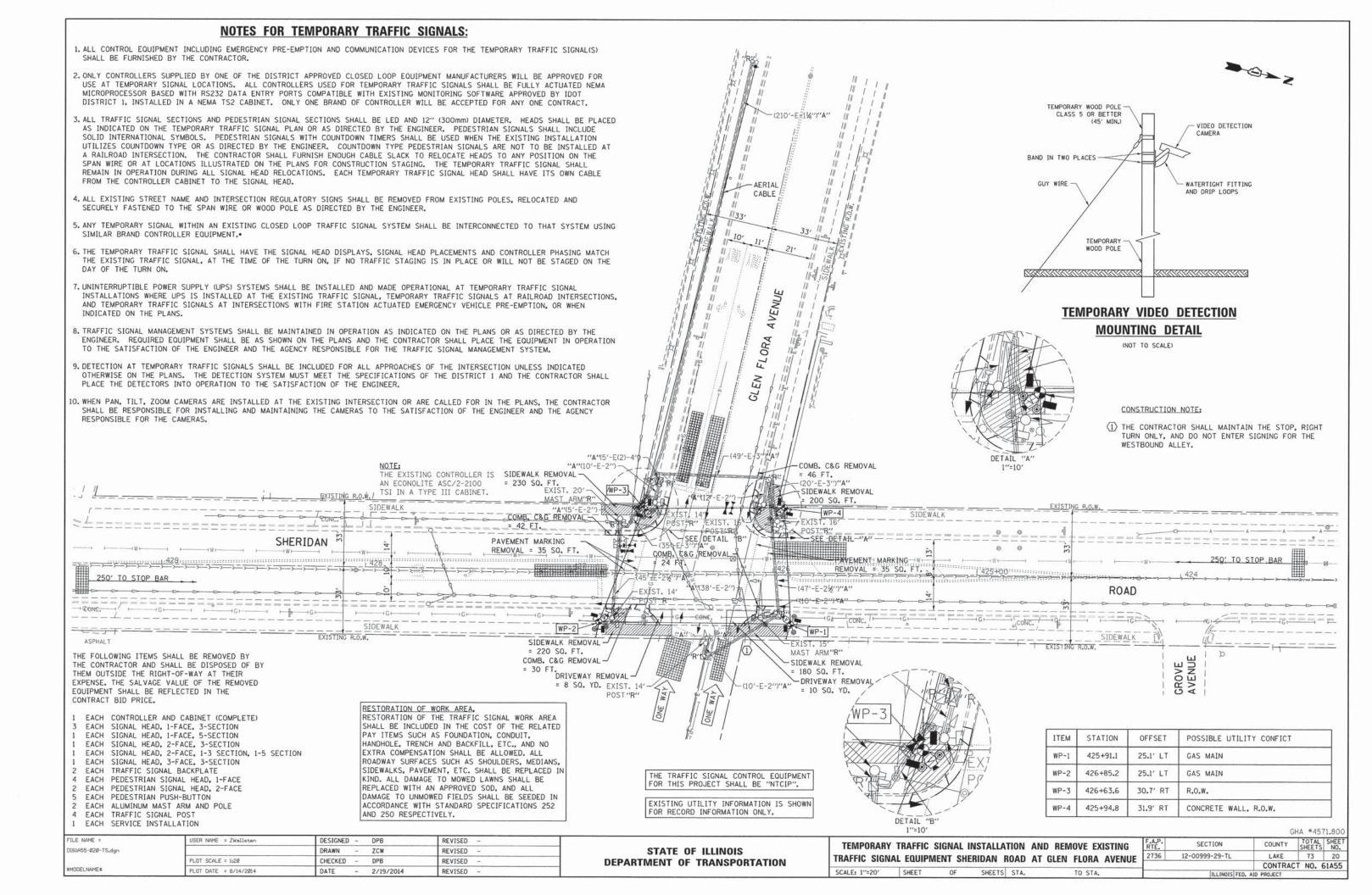
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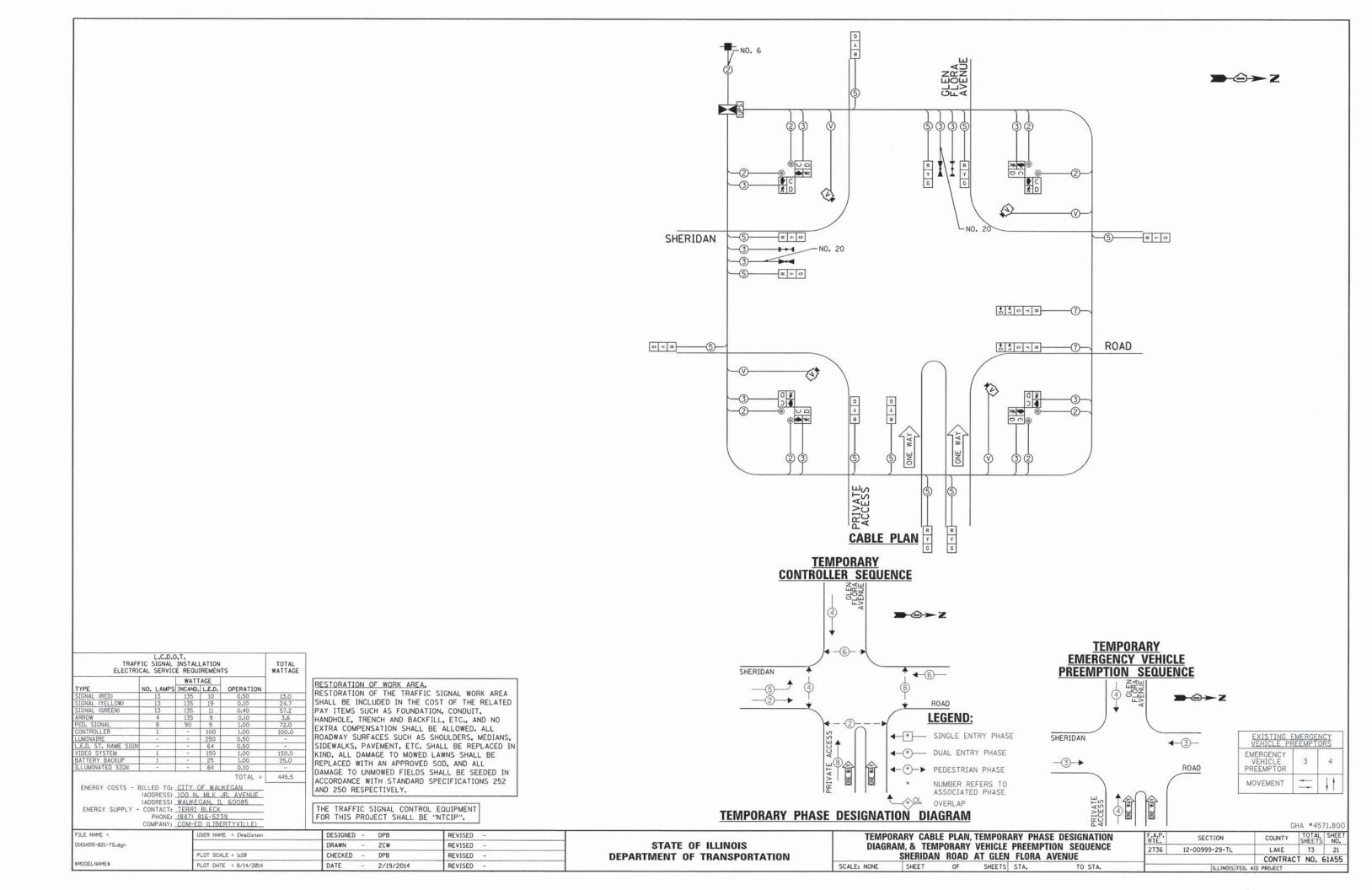
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

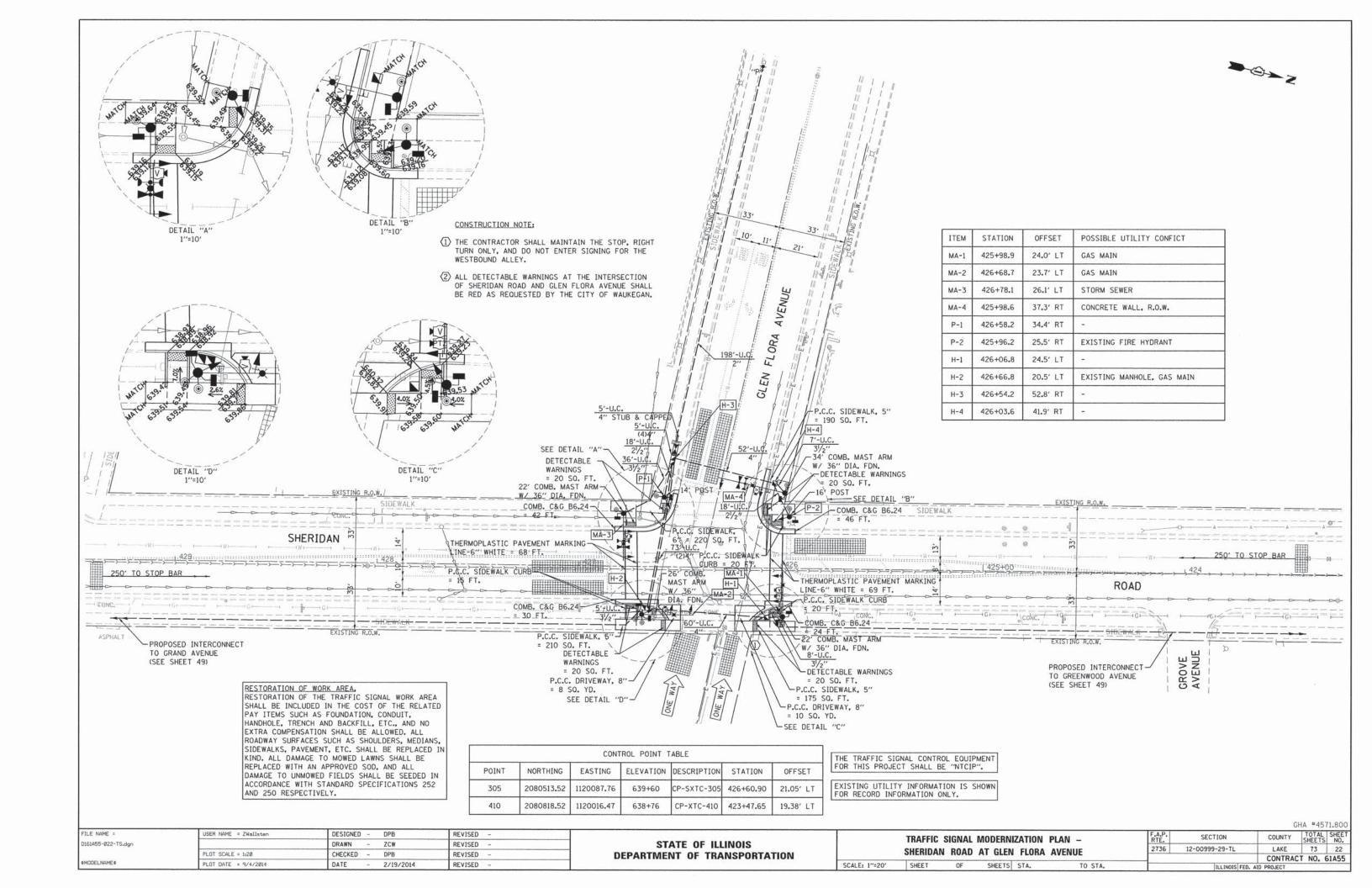
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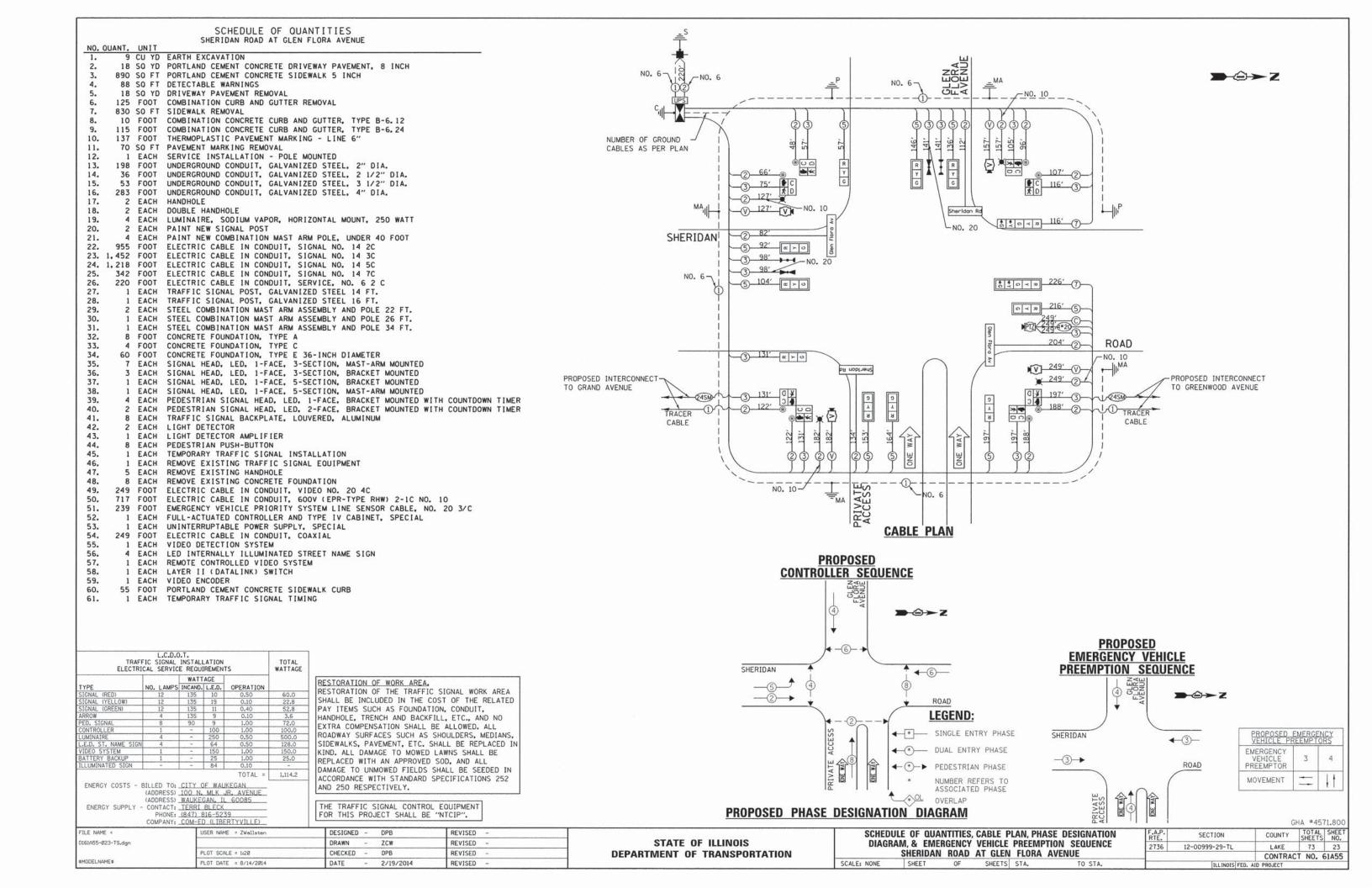


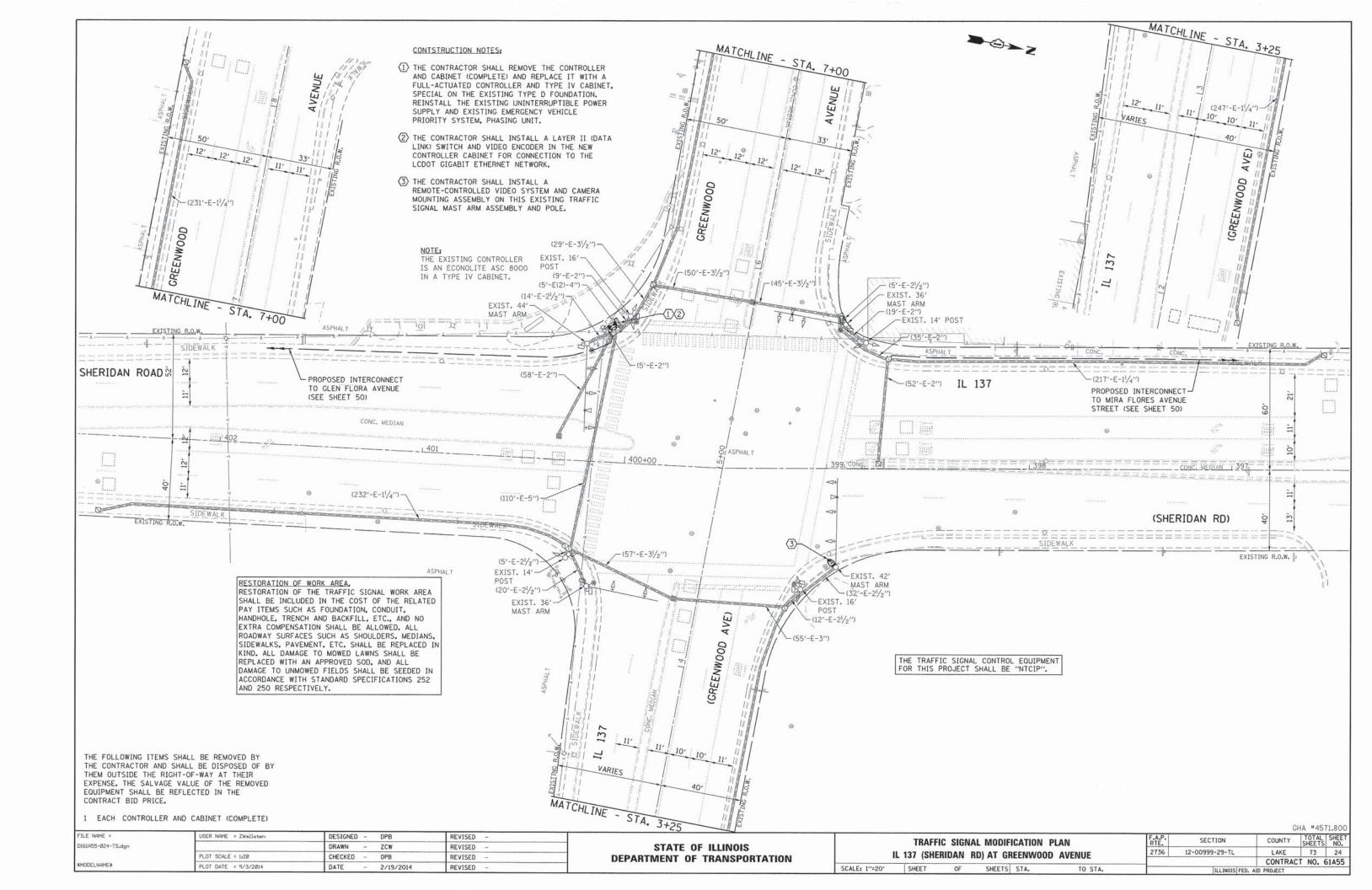


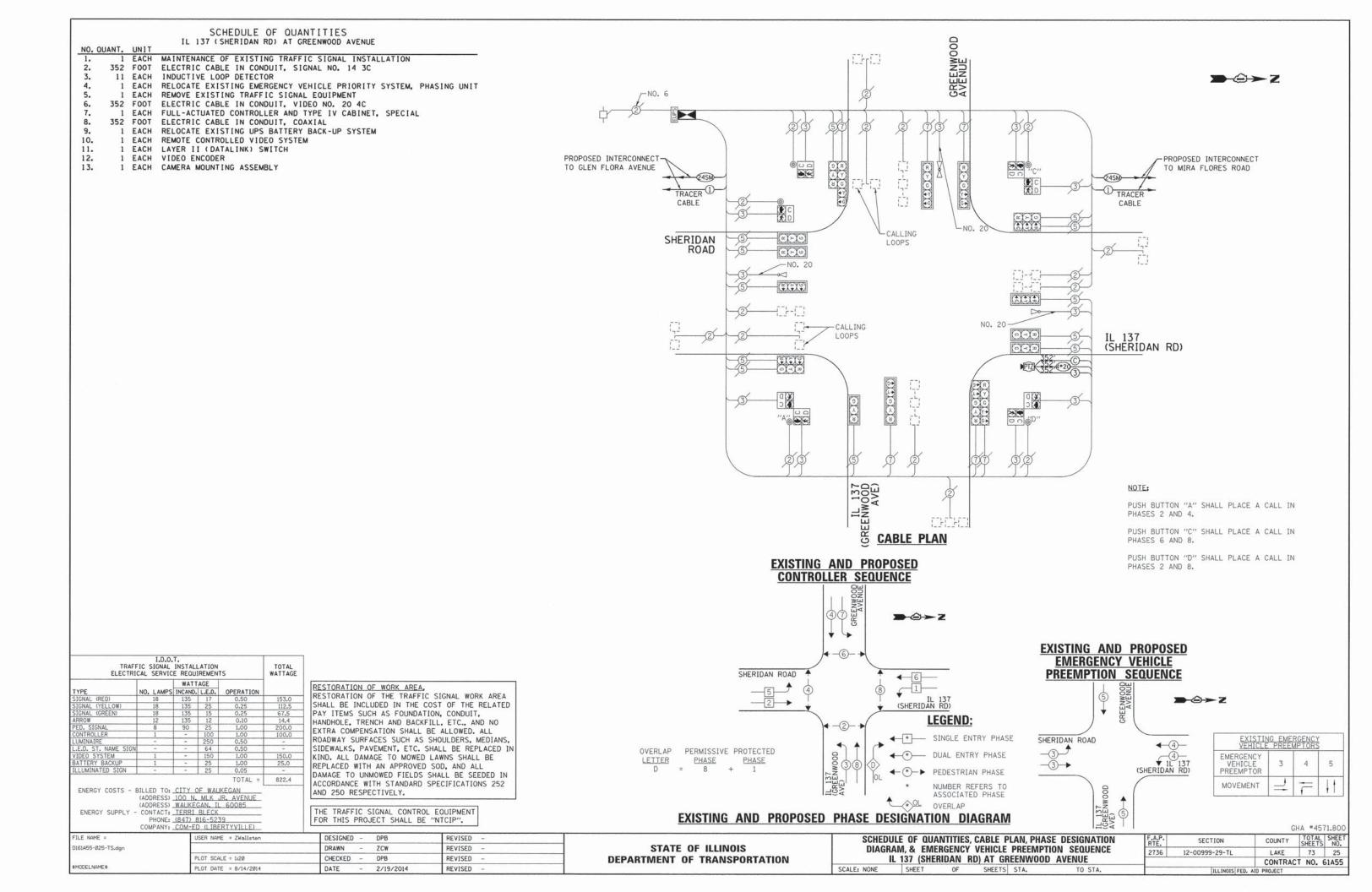


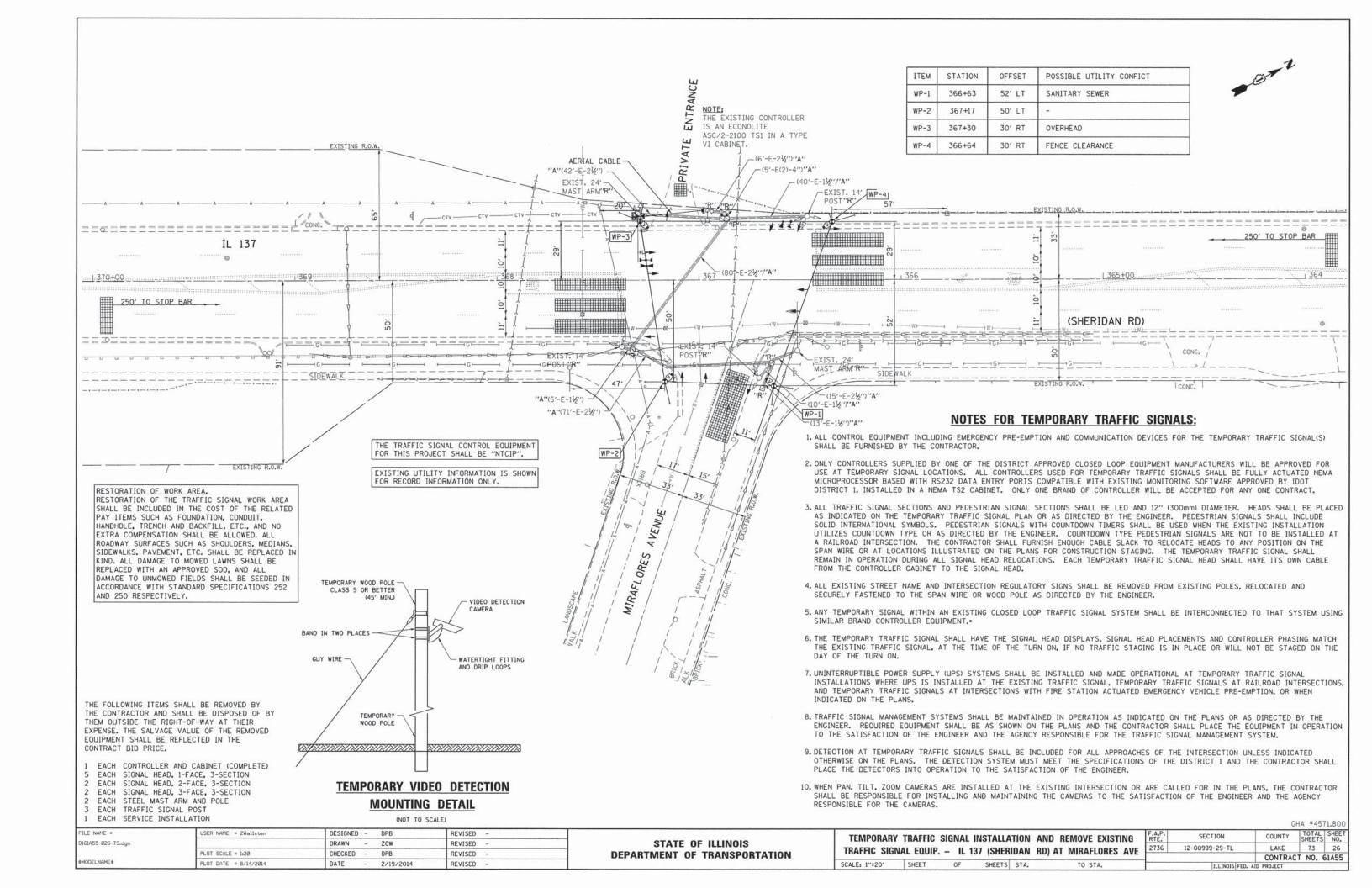


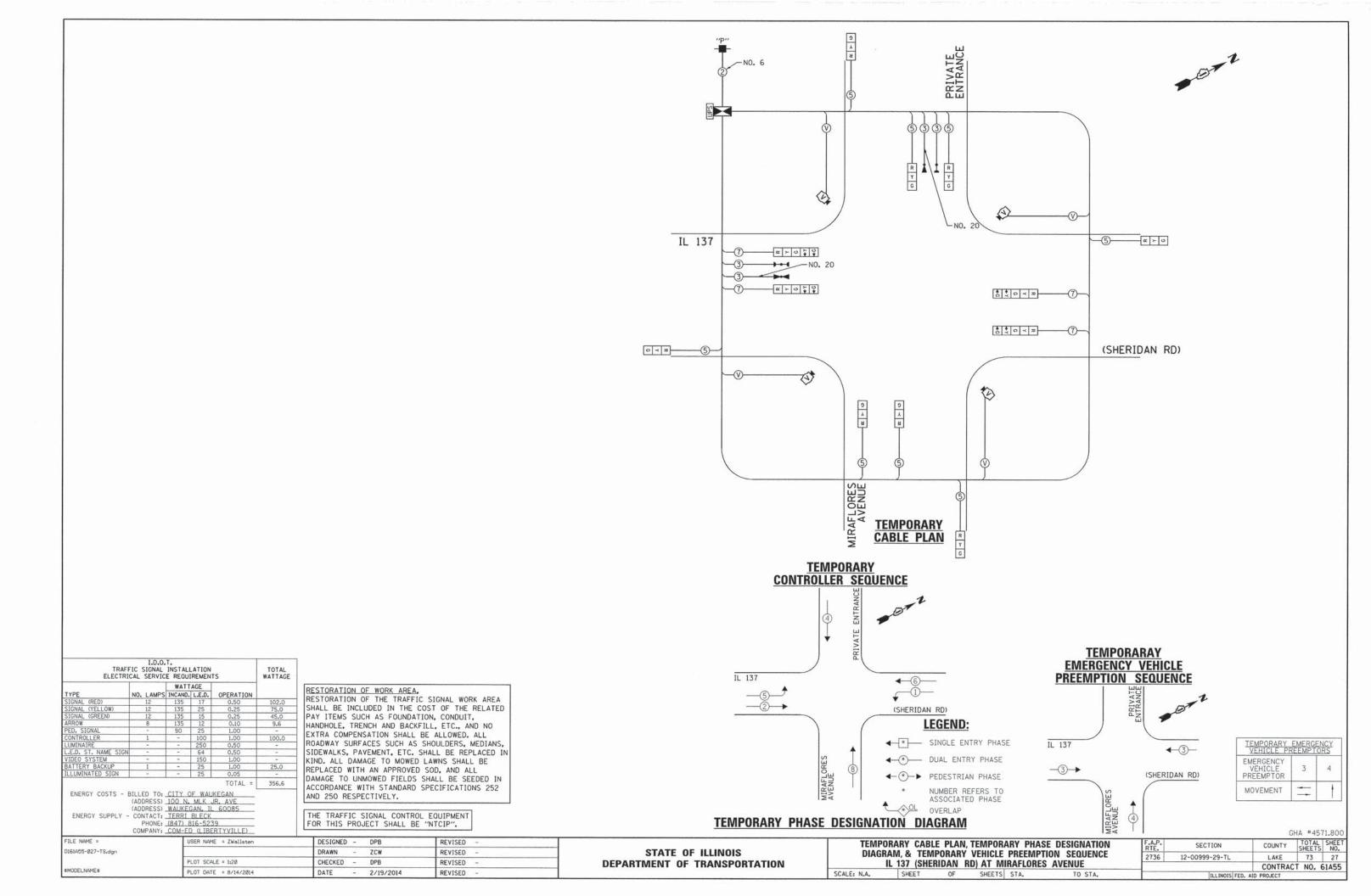


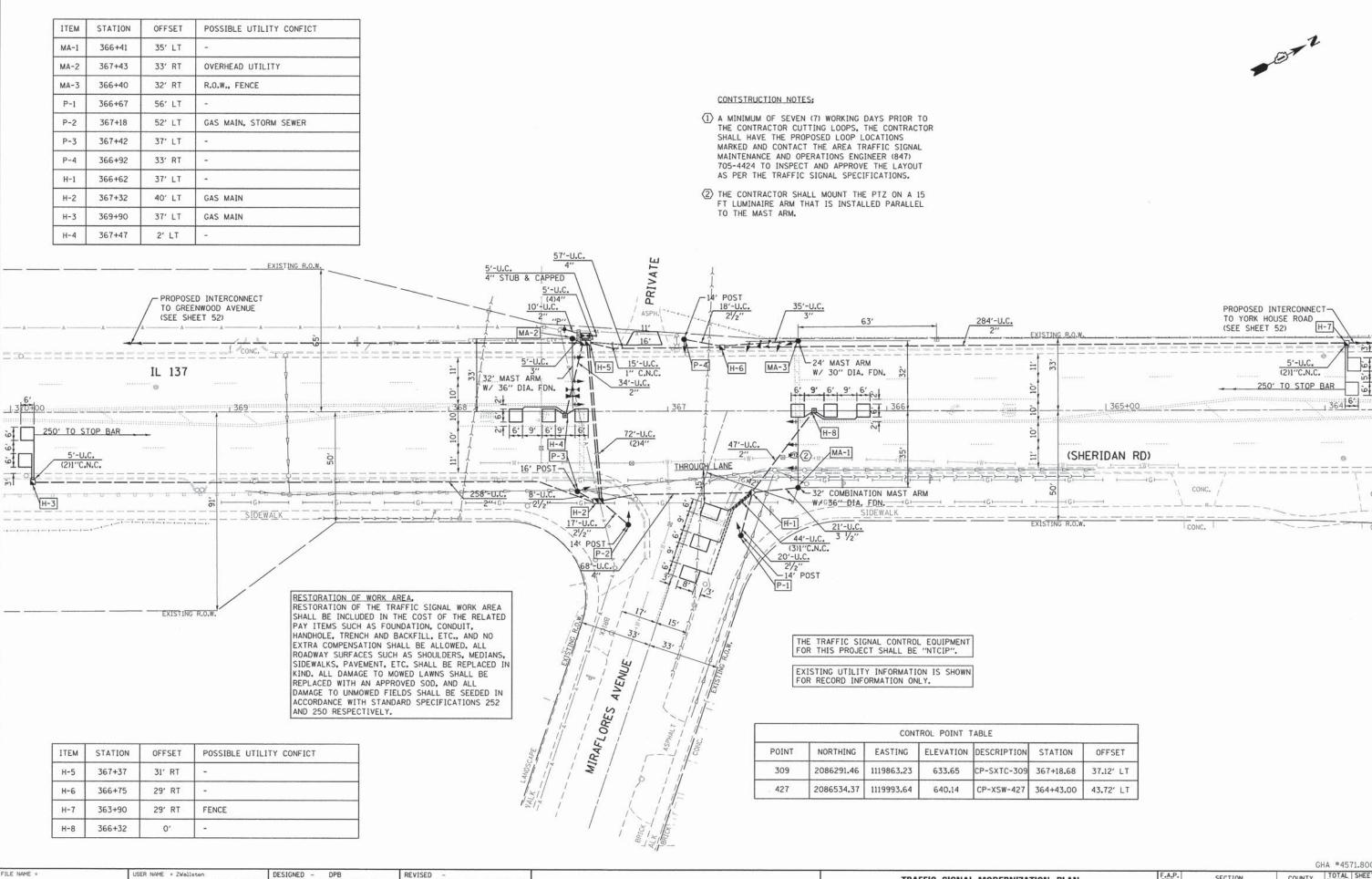












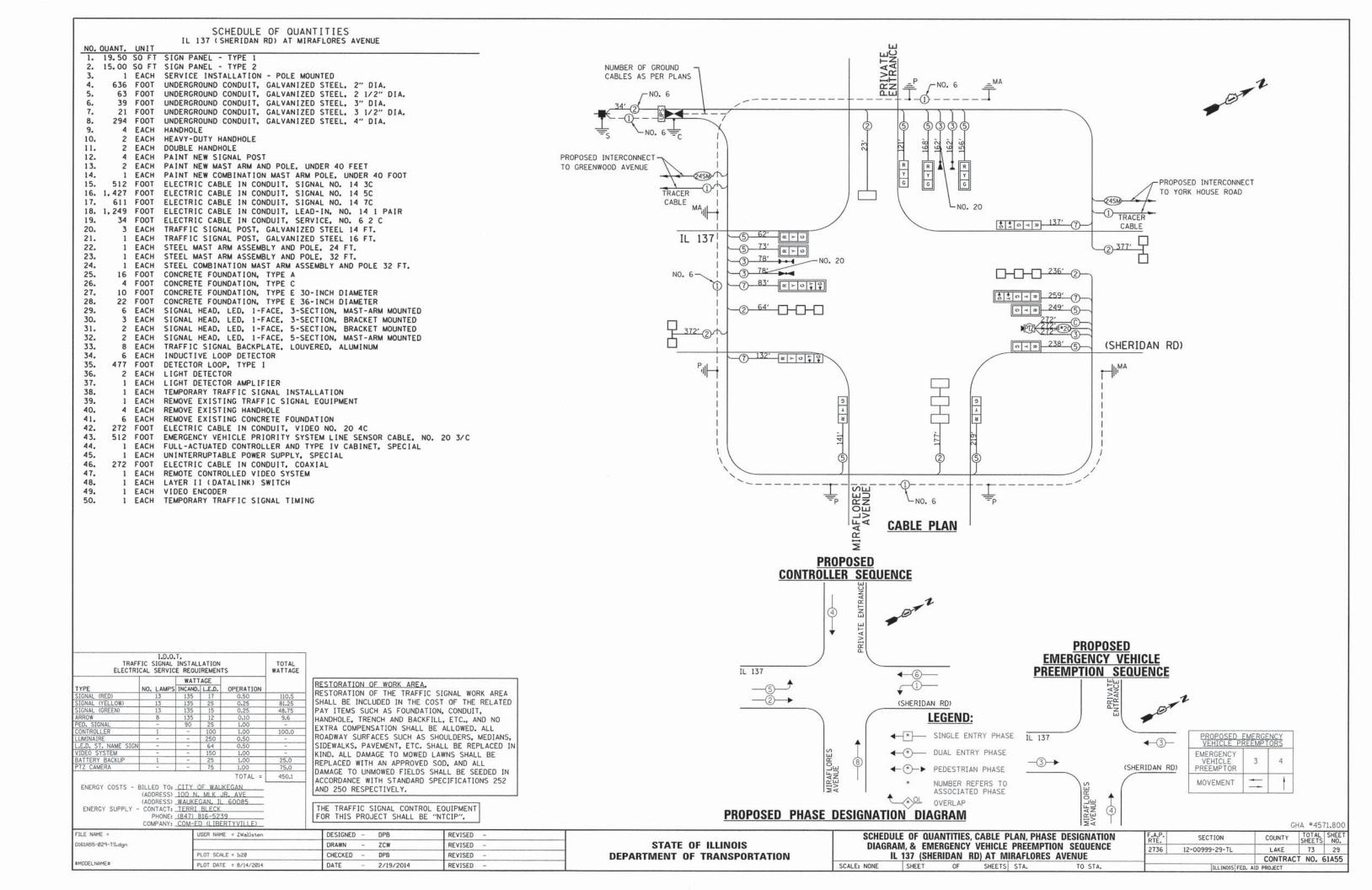
D161A55-028-TS.dgn MODELNAME\$

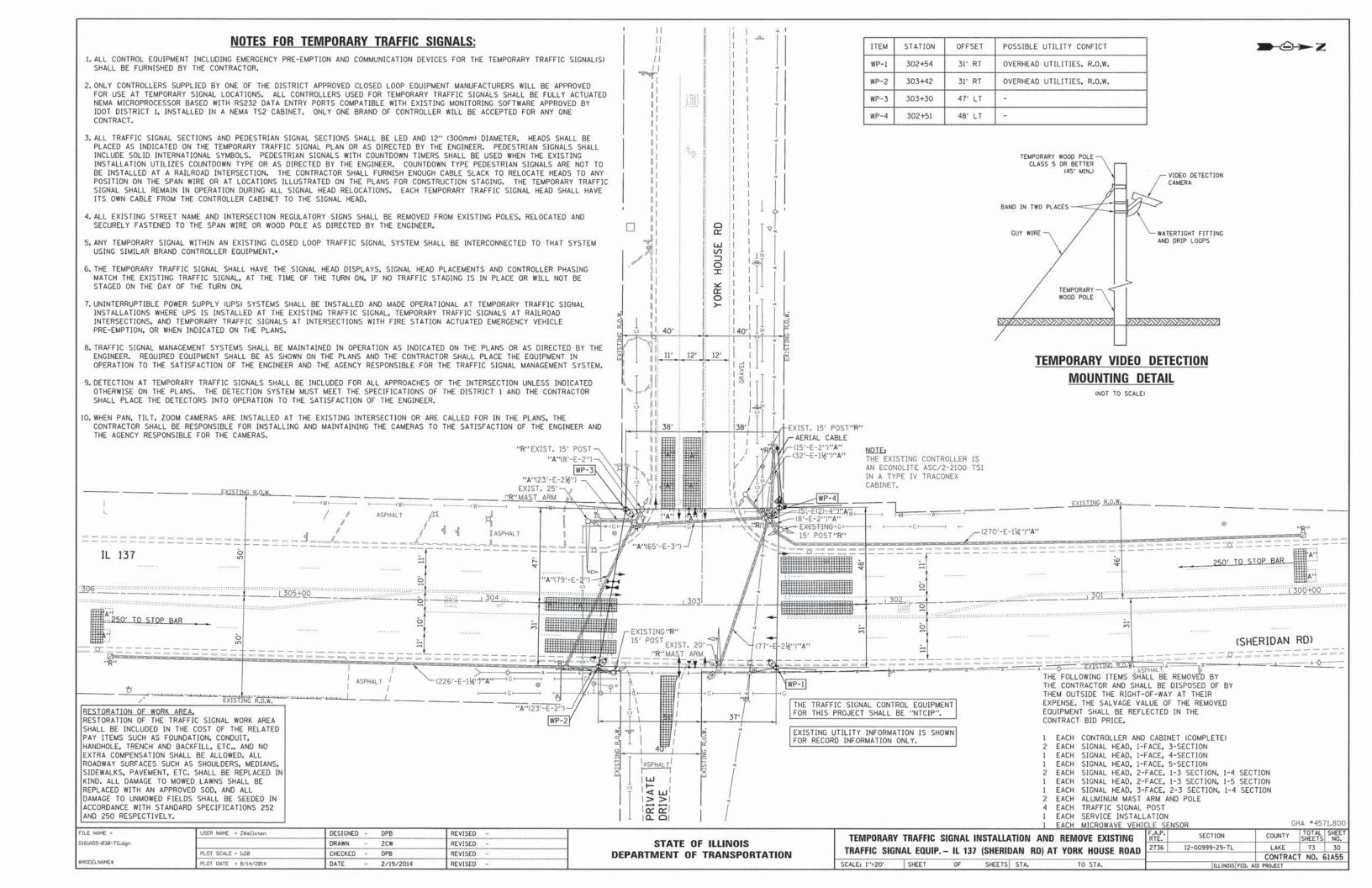
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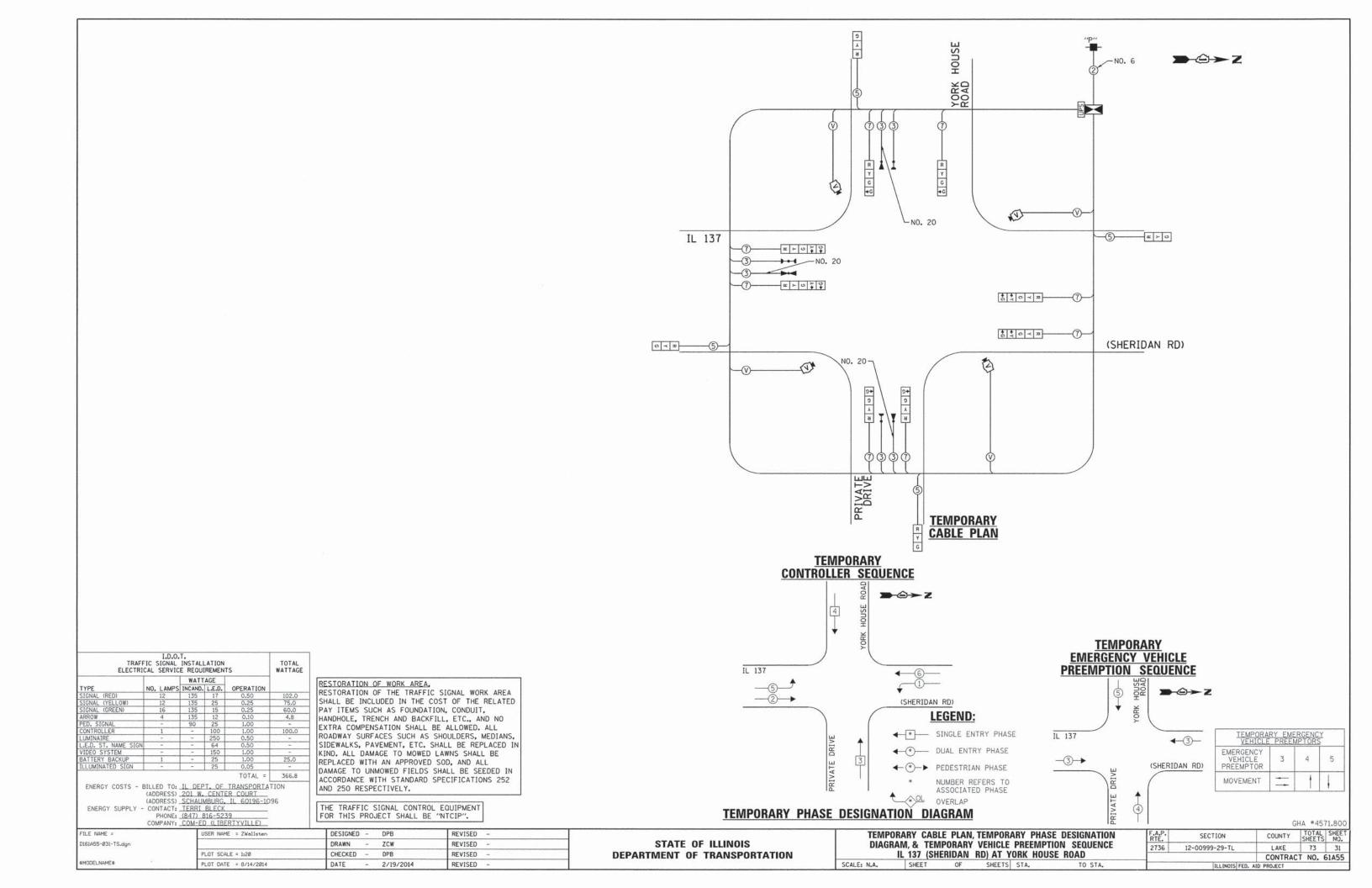
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

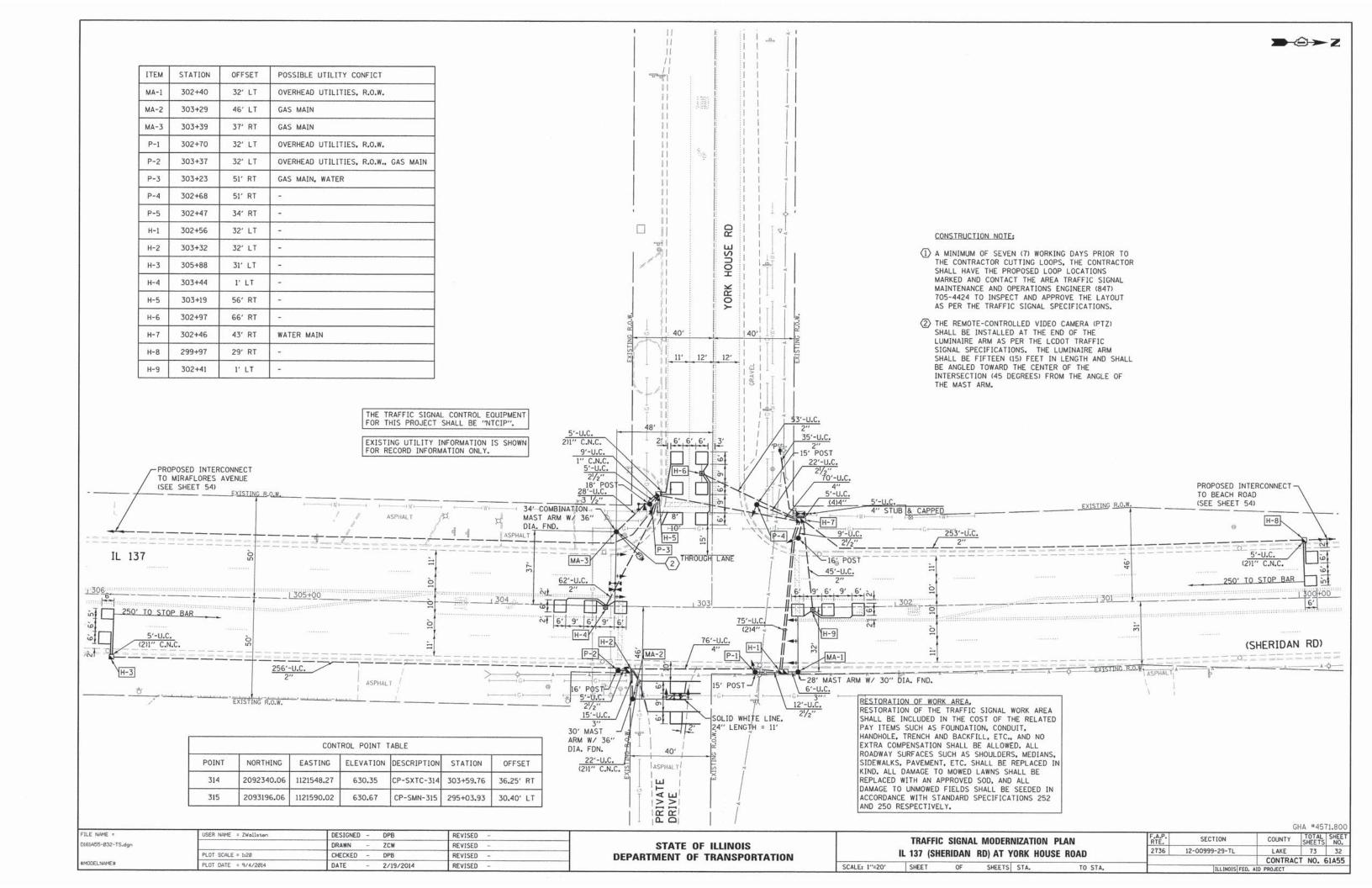
TRAFFIC SIGNAL MODERNIZATION PLAN IL 137 (SHERIDAN RD) AT MIRAFLORES AVENUE SCALE: 1"=20" SHEET OF SHEETS STA. TO STA.

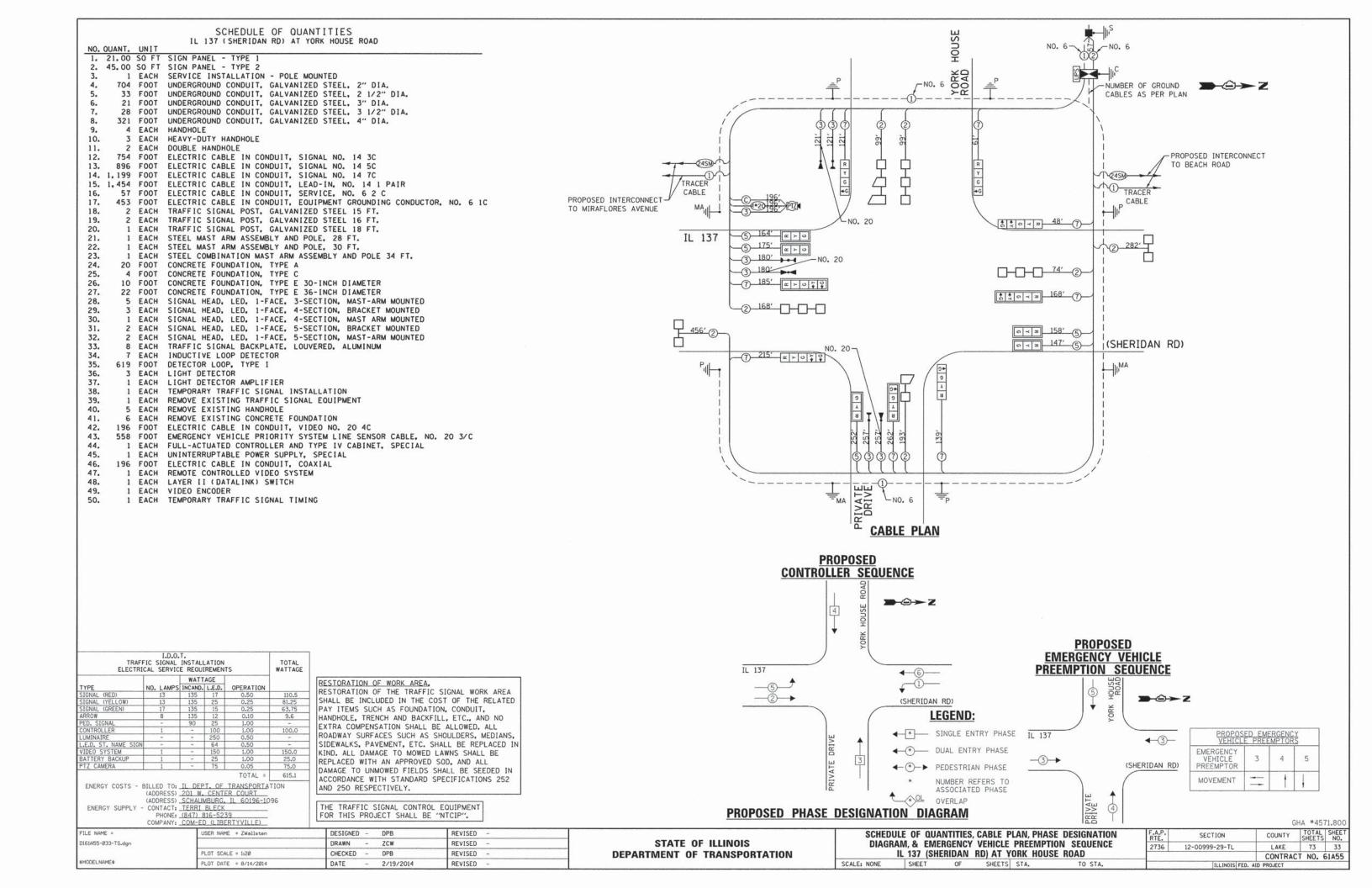
SECTION 12-00999-29-TL 73 28 CONTRACT NO. 61A55 ILLINOIS FED. AID PROJECT

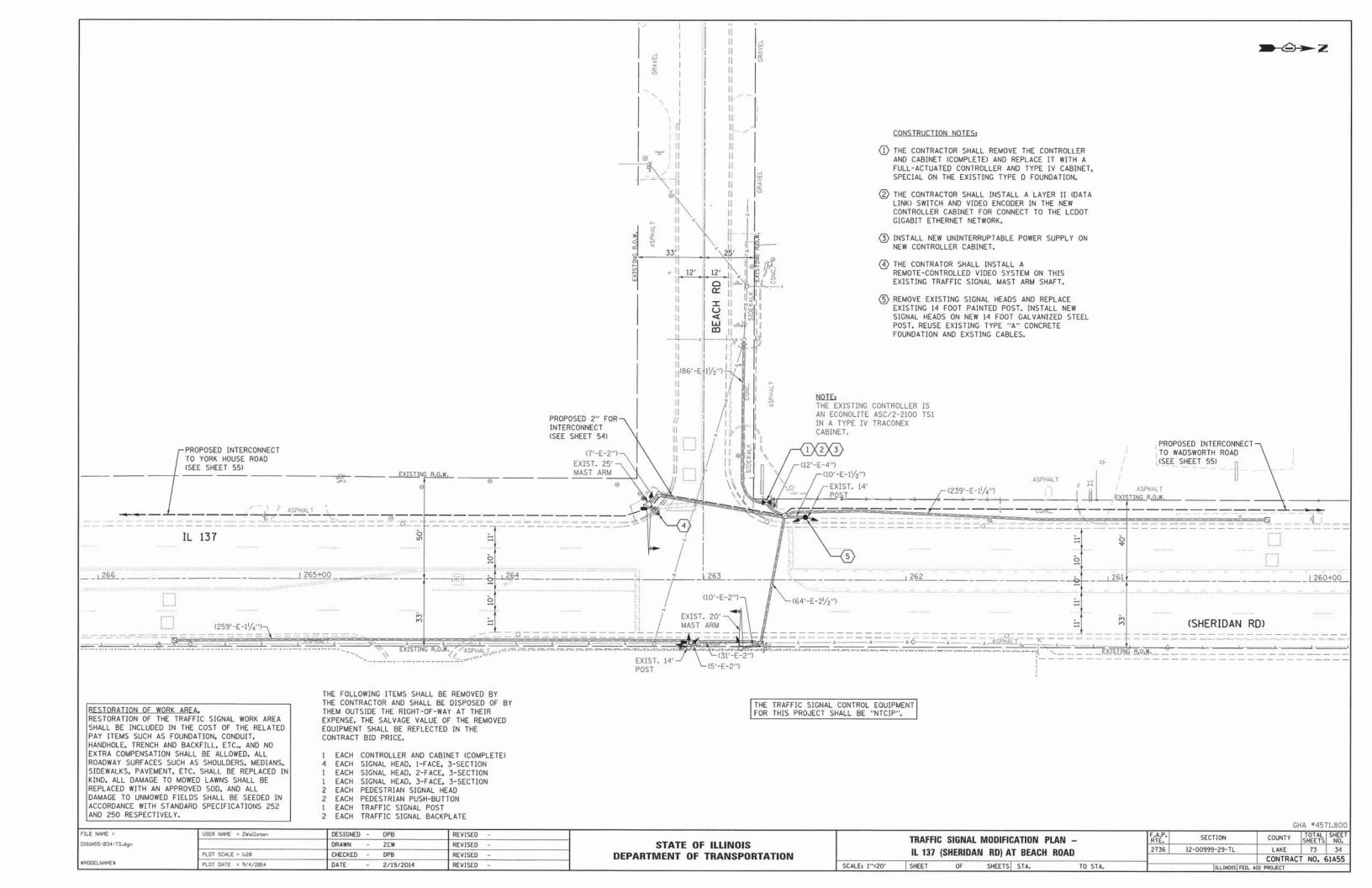


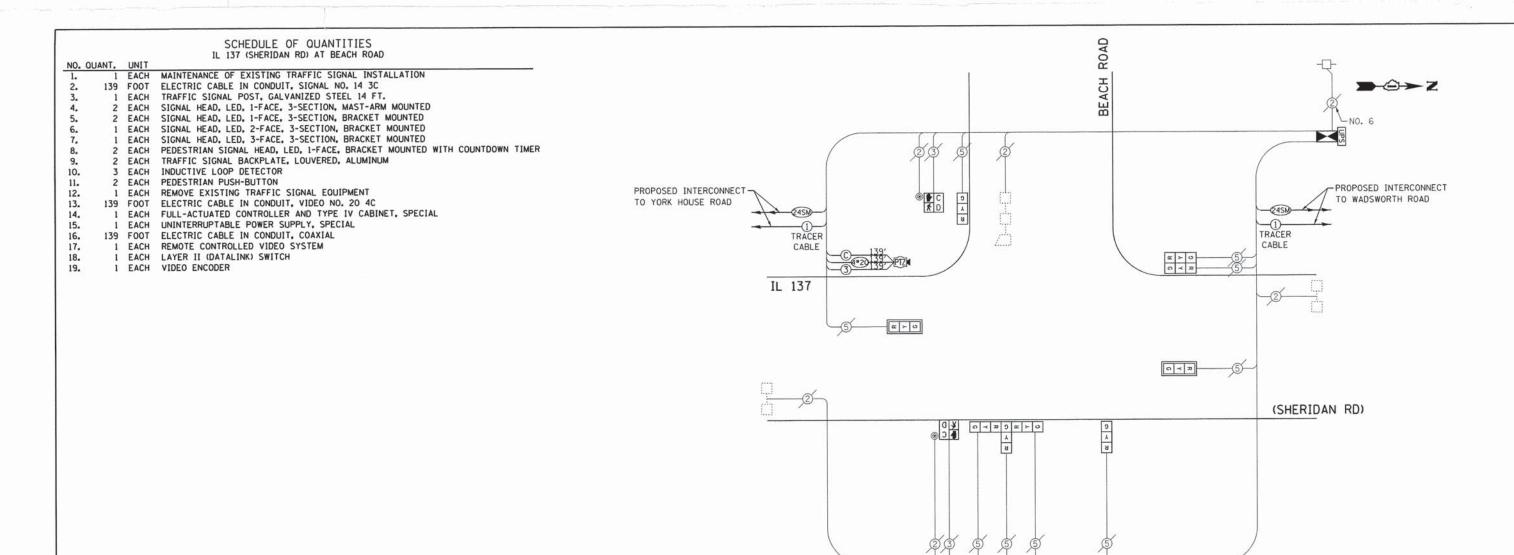












I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE		WATT	AGE		
	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	9	135	17	0.50	76.5
CTONIAL INCL. CHIL		100	0.0	0.05	E 6 0 E

 TYPE
 NO. LAMPS
 INCAND. L.E.D.
 OPERATION

 SIGNAL (RED)
 9
 135
 17
 0.50
 76.5

 SIGNAL (YELLOW)
 9
 135
 25
 0.25
 56.25

 SIGNAL (GREEN)
 9
 135
 15
 0.25
 33.75

 ARROW
 135
 12
 0.10

 PED. SIGNAL
 2
 90
 25
 1.00
 50.0

 CONTROLLER
 1
 100
 1.00
 100.0

 LUMINAIRE
 250
 0.50

 VIDEO SYSTEM
 1
 150
 1.00
 150.0

 BATTERY BACKUP
 1
 25
 1.00
 25.0

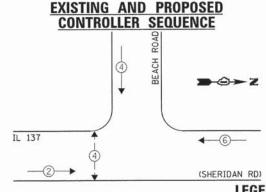
 PTZ CAMERA
 1
 75
 1.00
 75.0

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COM-ED (IBRRTYVILLE)

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP".

CABLE PLAN



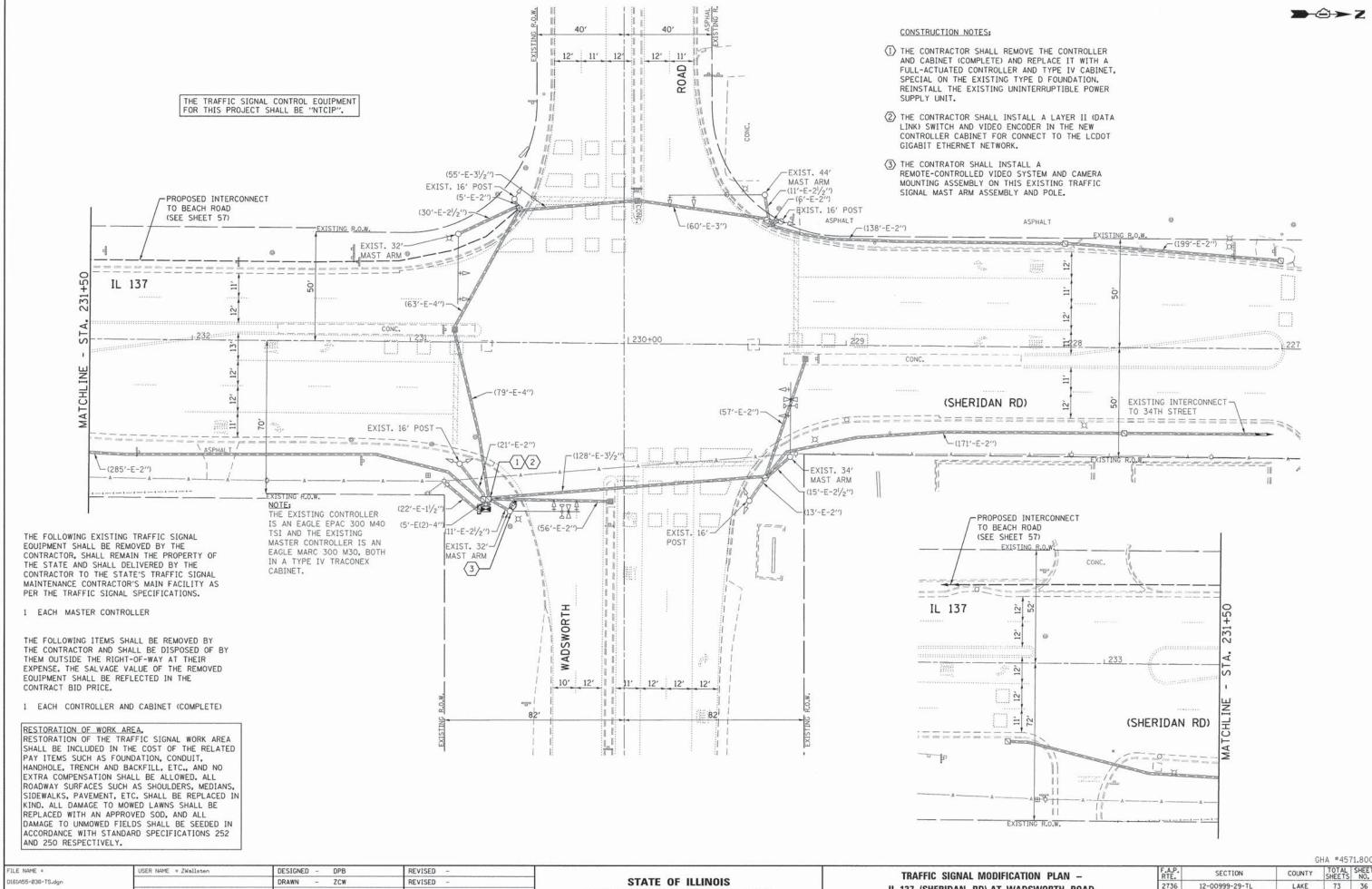
LEGEND:

- * SINGLE ENTRY PHASE
- ◆ ◆ DUAL ENTRY PHASE
- ◆ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

GHA #4571.800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



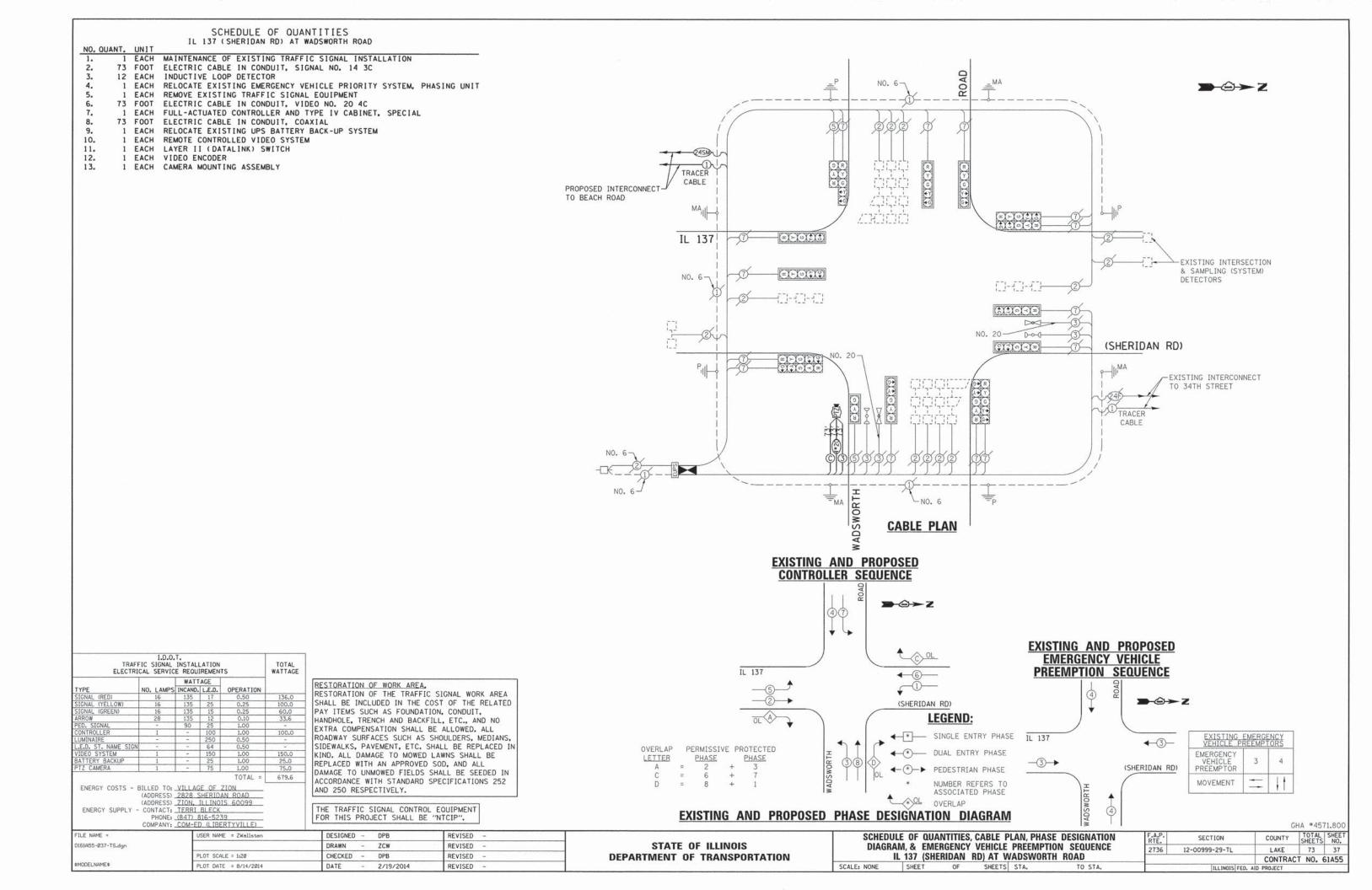
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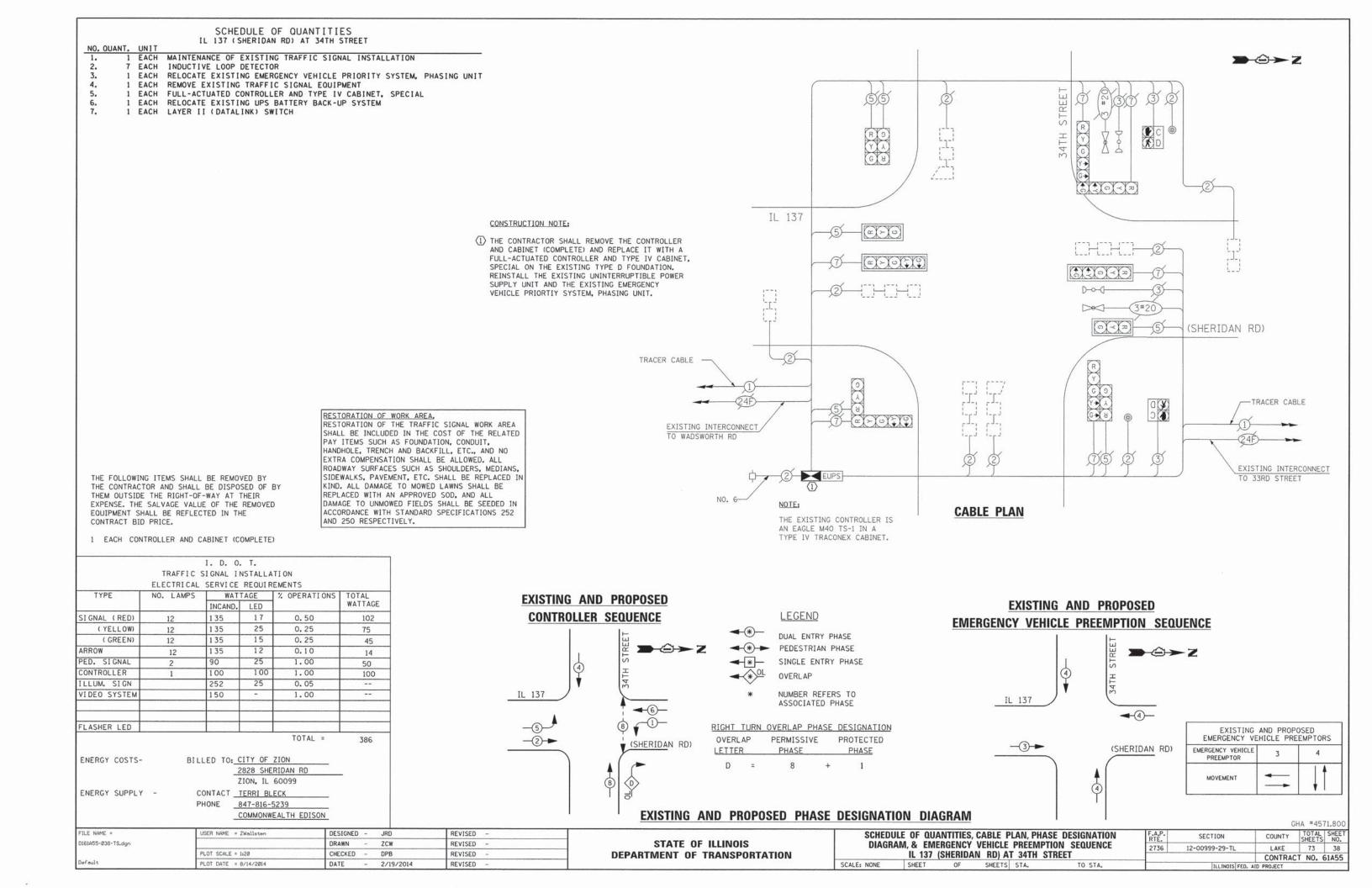
DEPARTMENT OF TRANSPORTATION

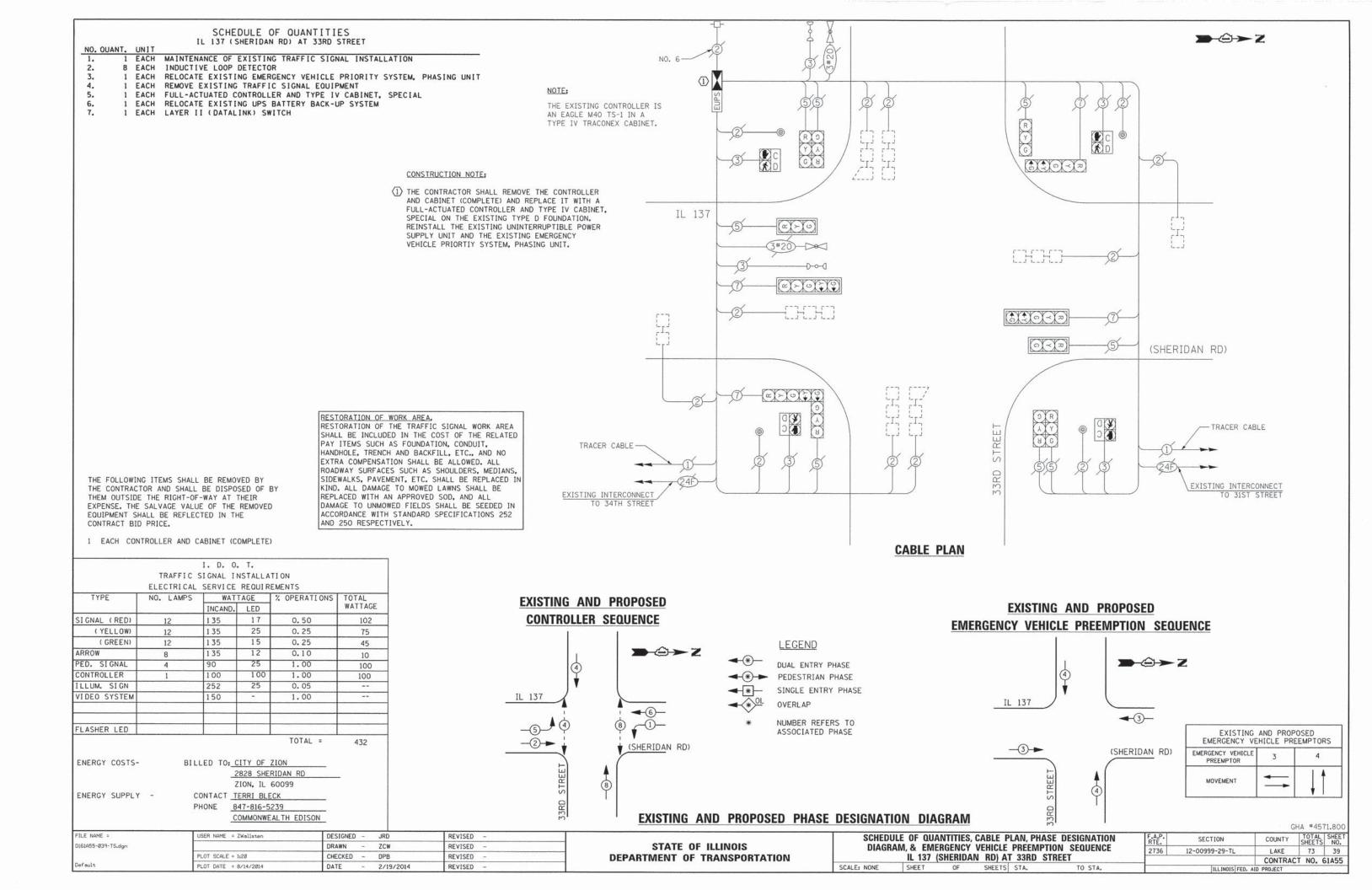
IL 137 (SHERIDAN RD) AT WADSWORTH ROAD SHEETS STA.

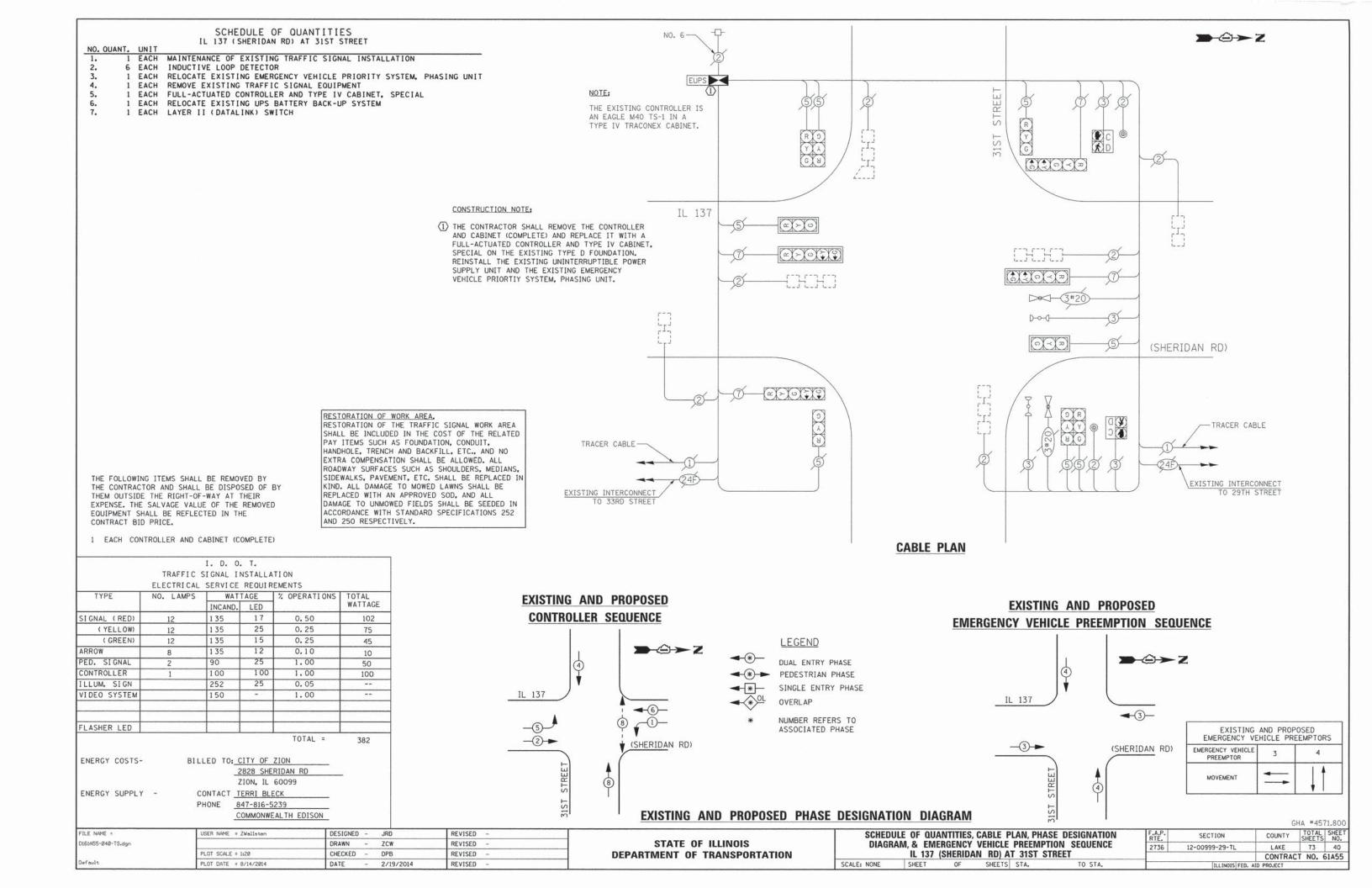
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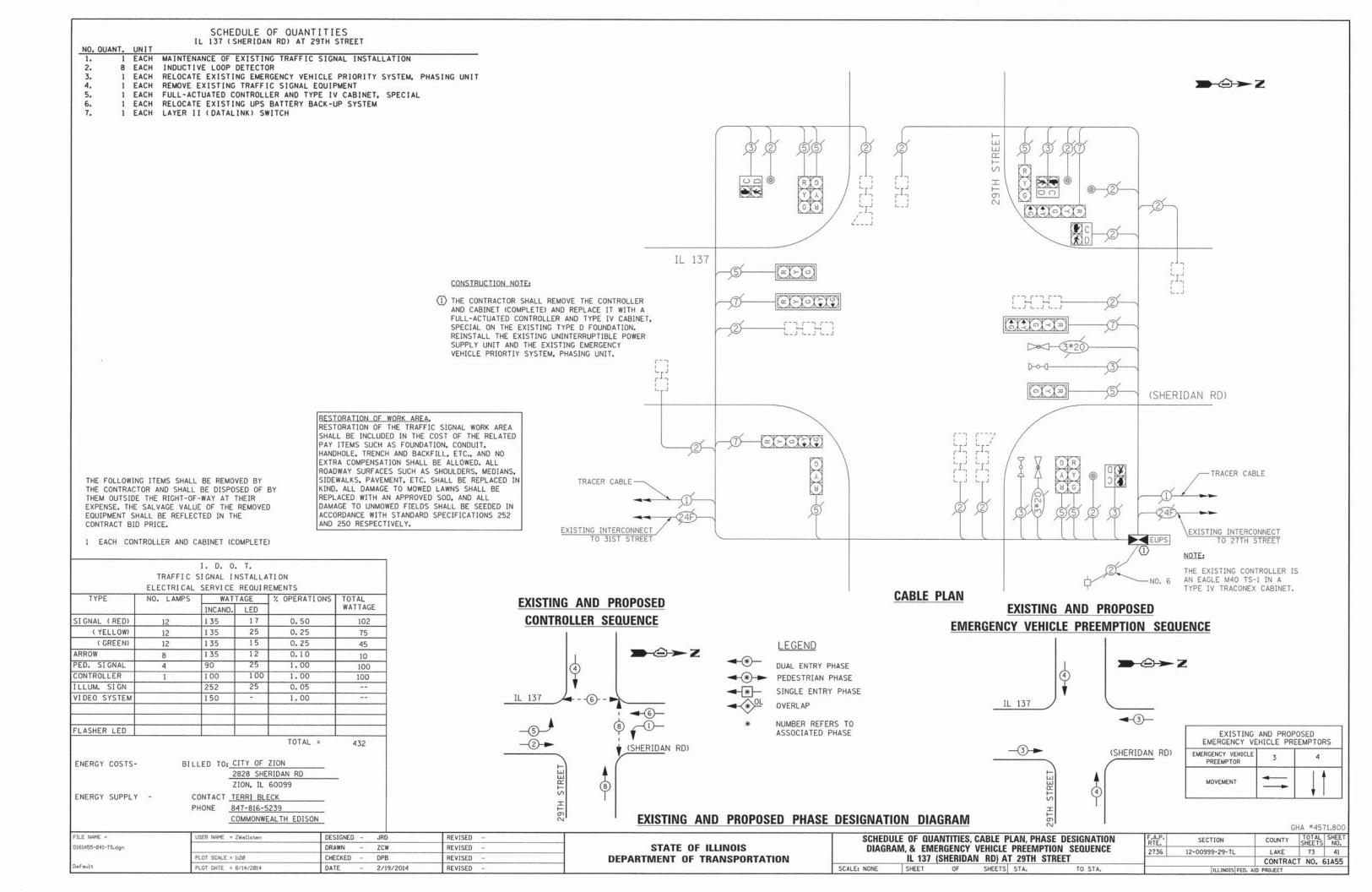
12-00999-29-TL LAKE 73 | 36 CONTRACT NO. 61A55 ILLINOIS FED. AID PROJECT

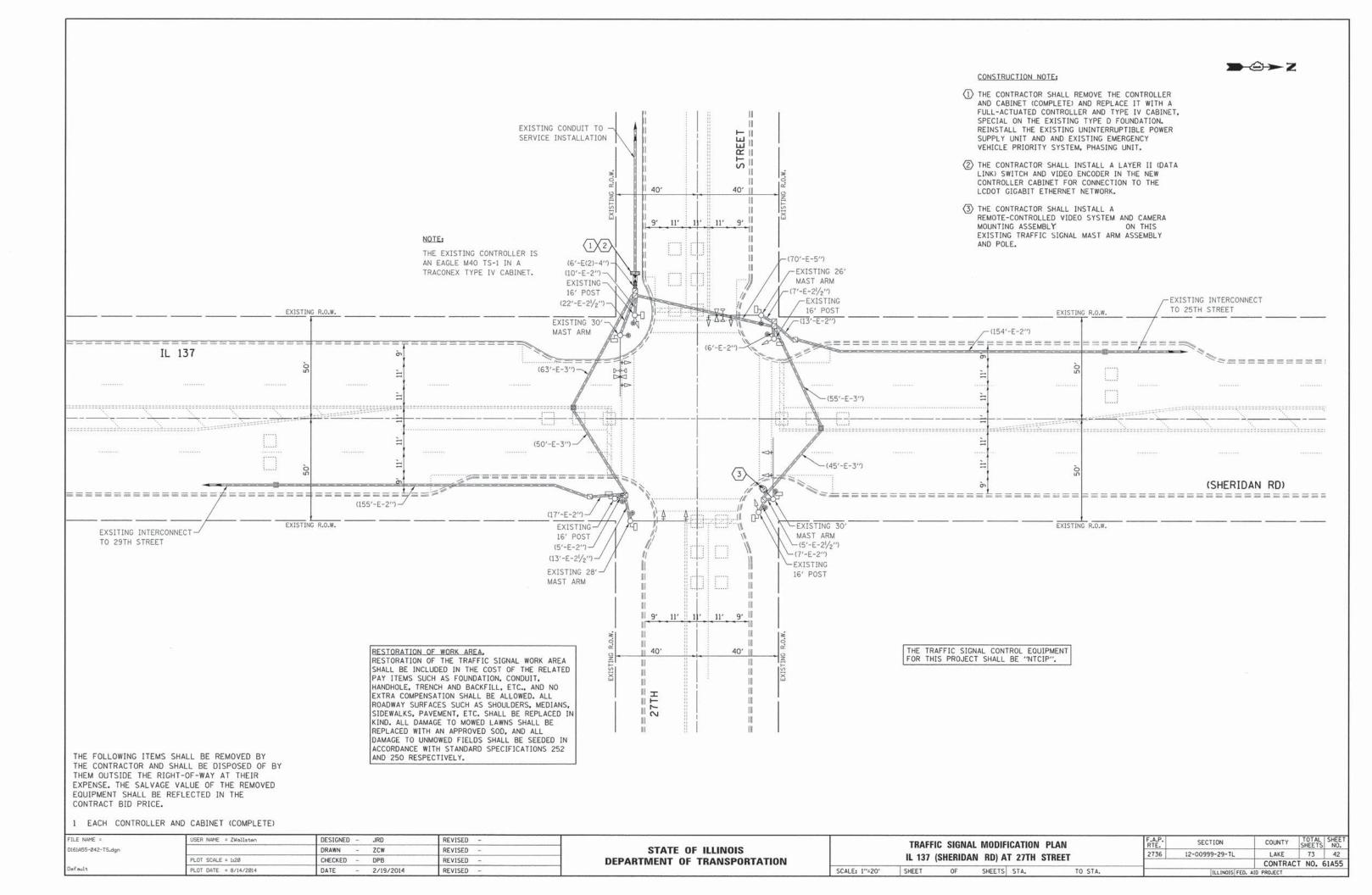


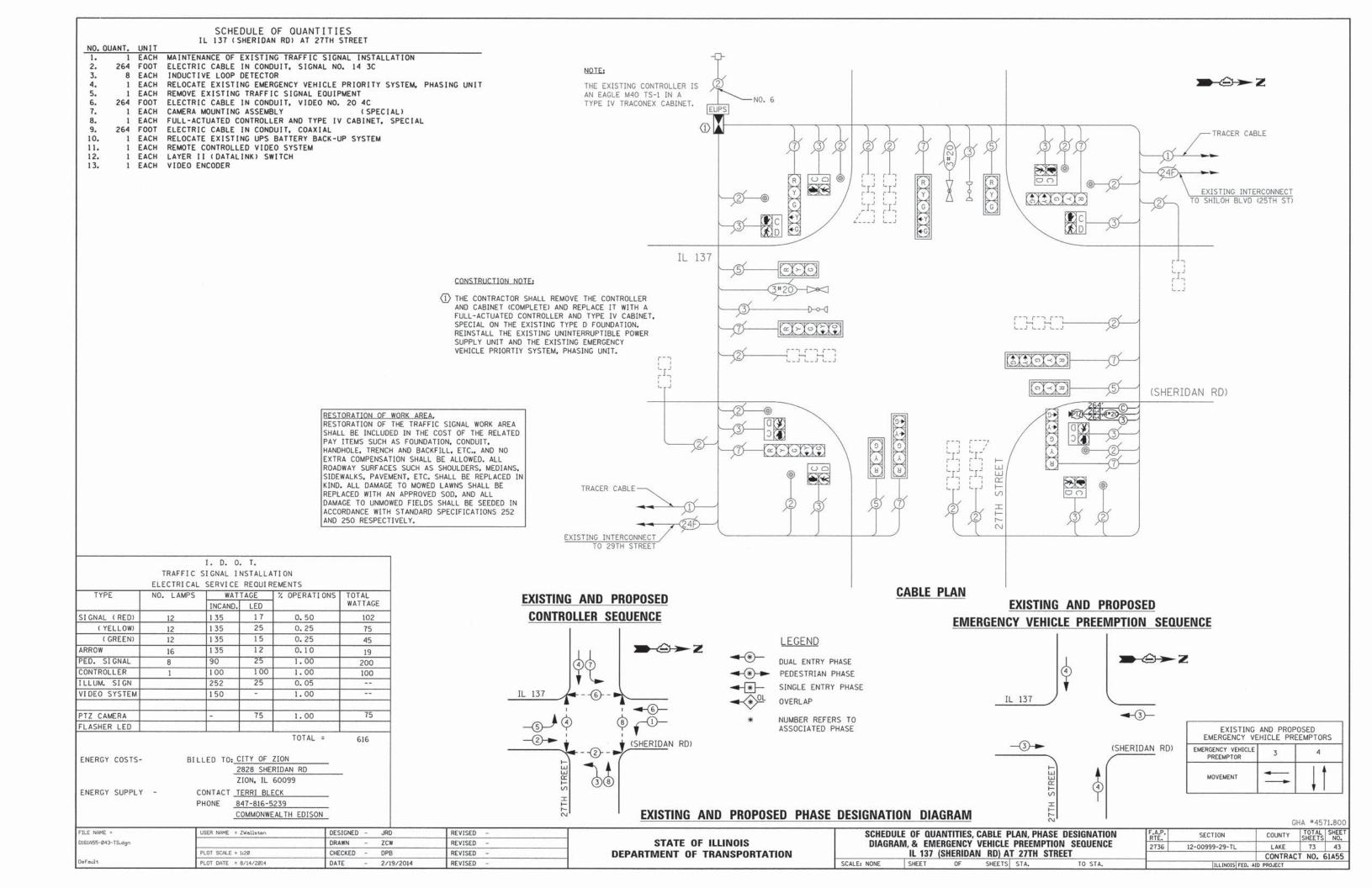


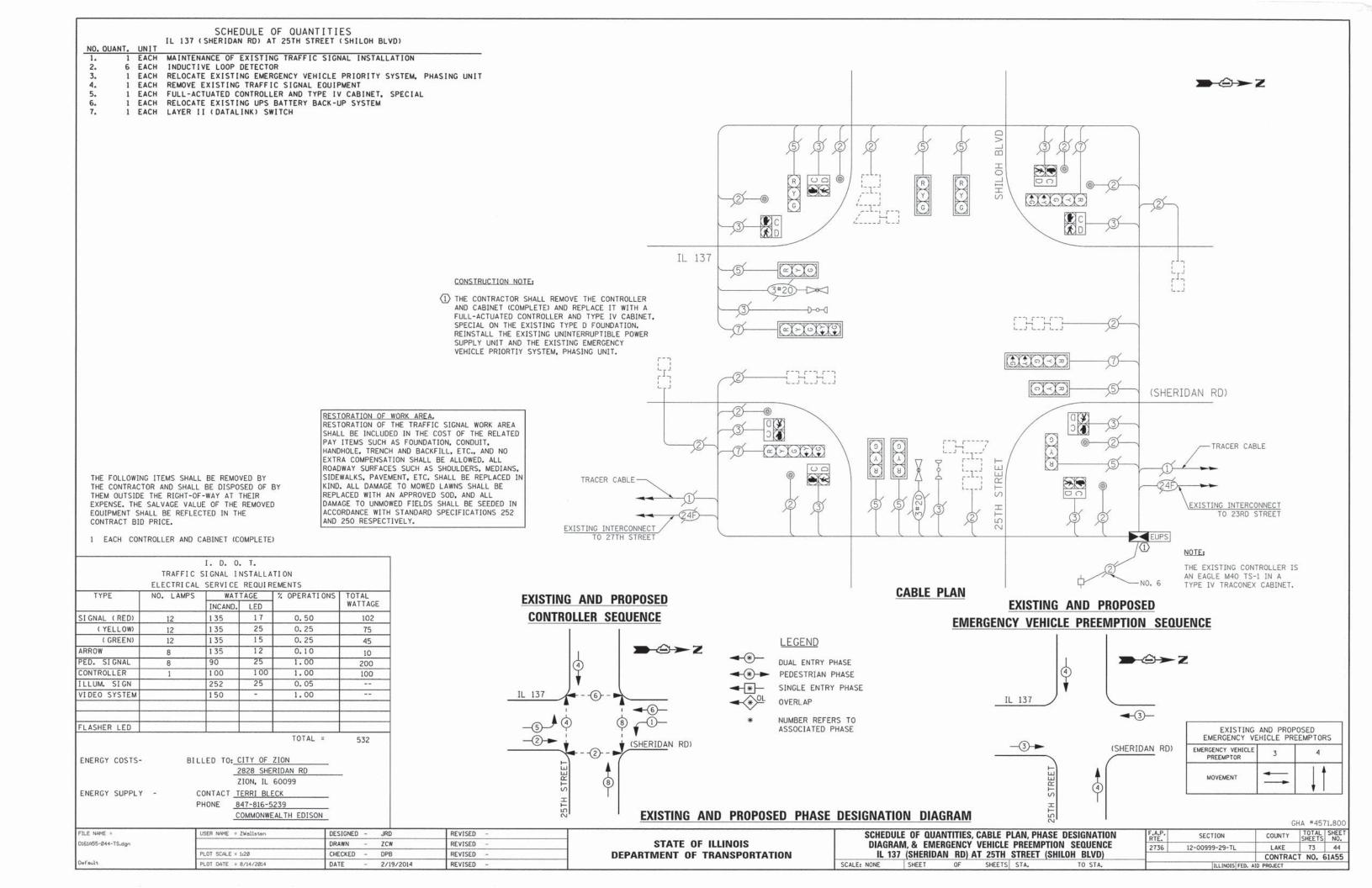


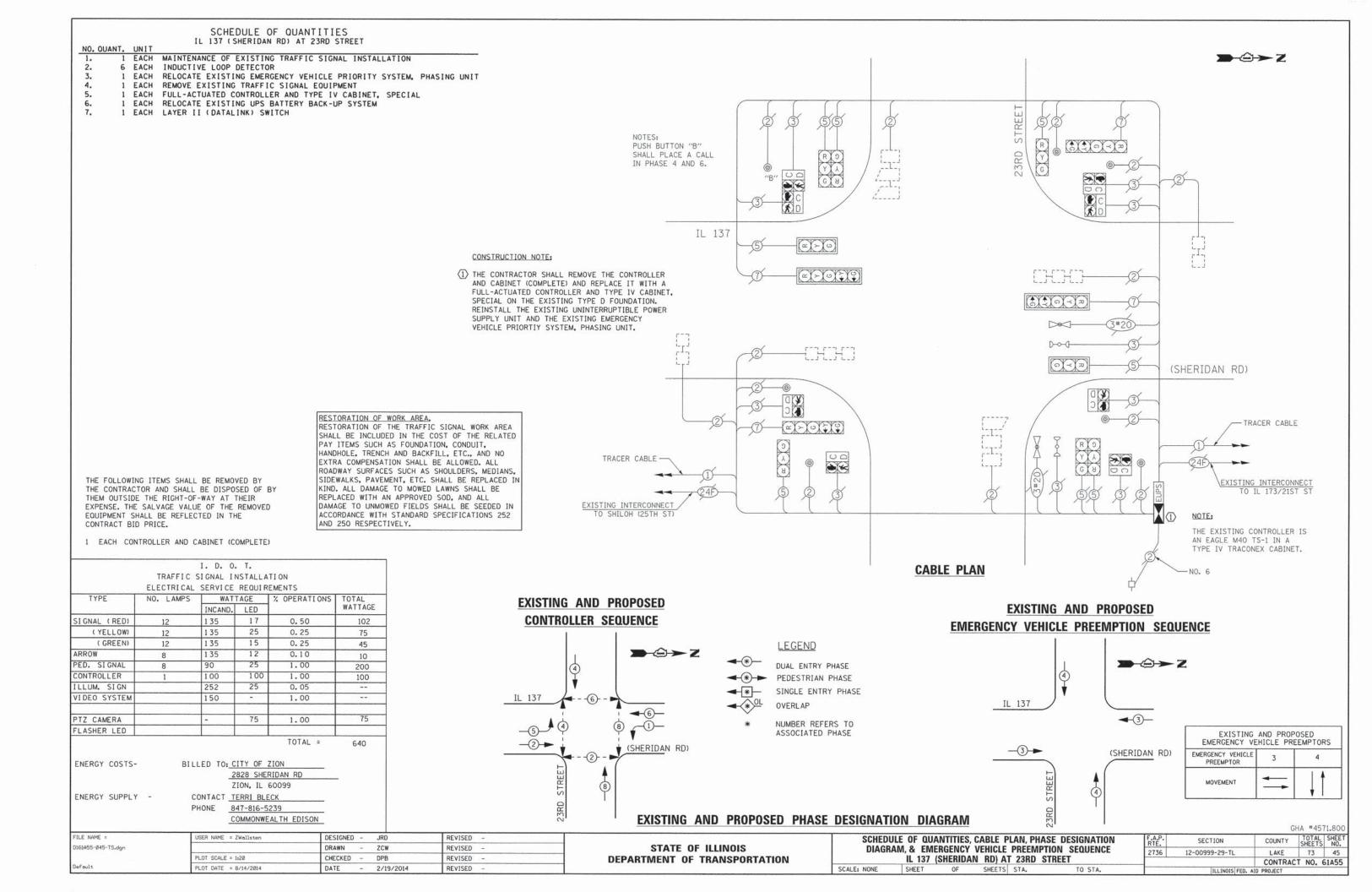


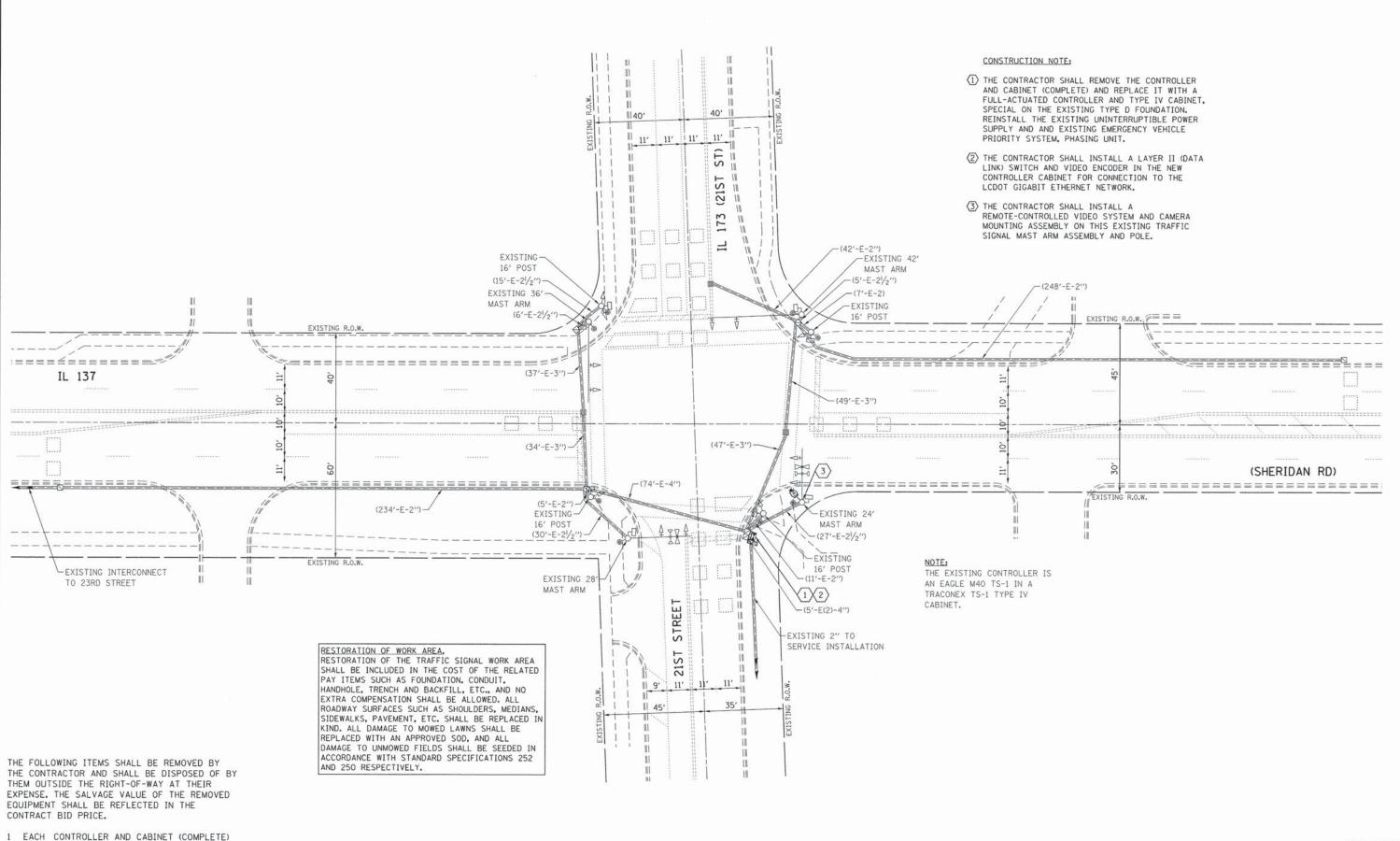




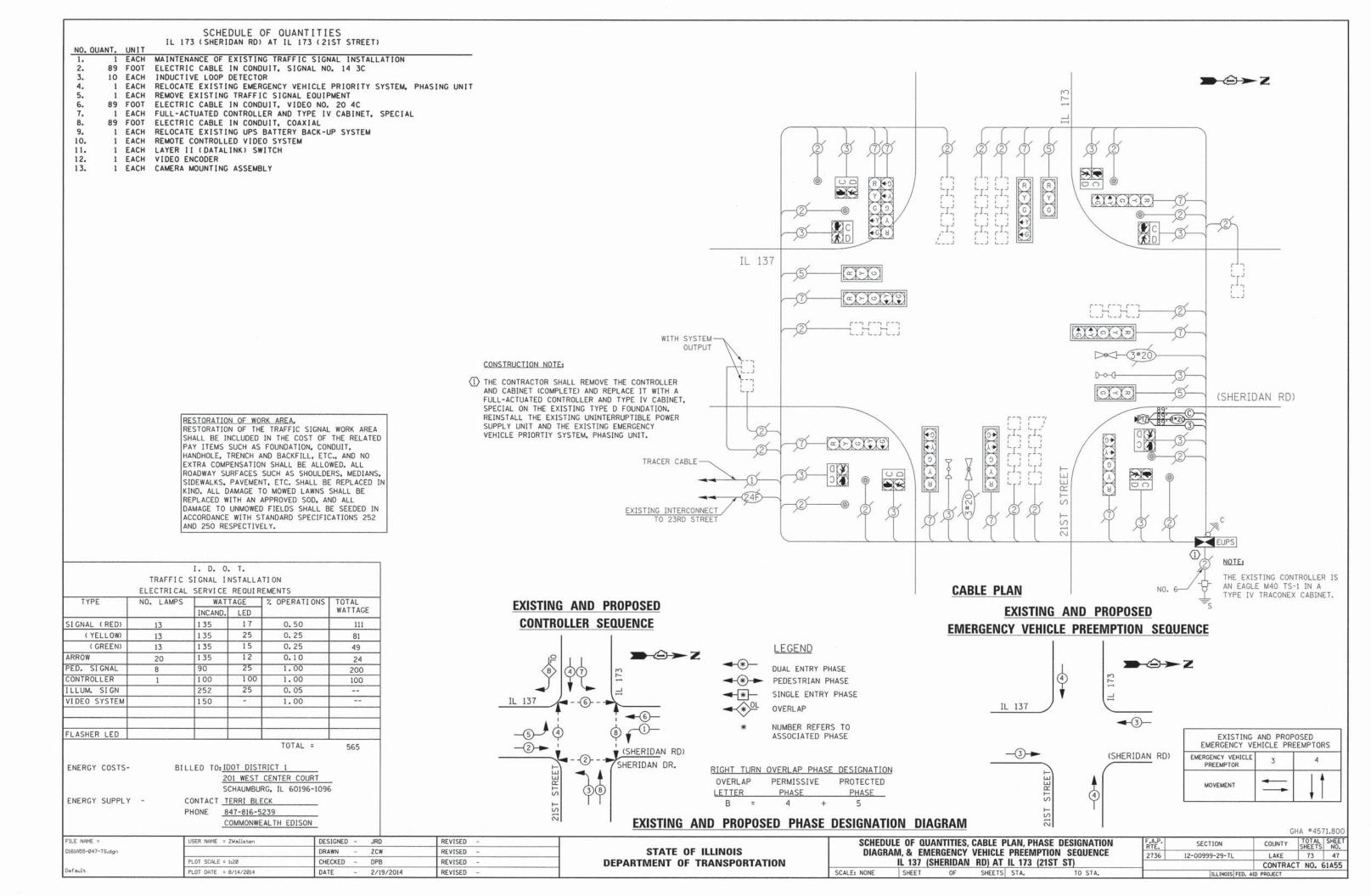


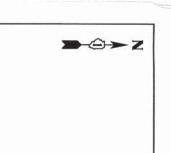


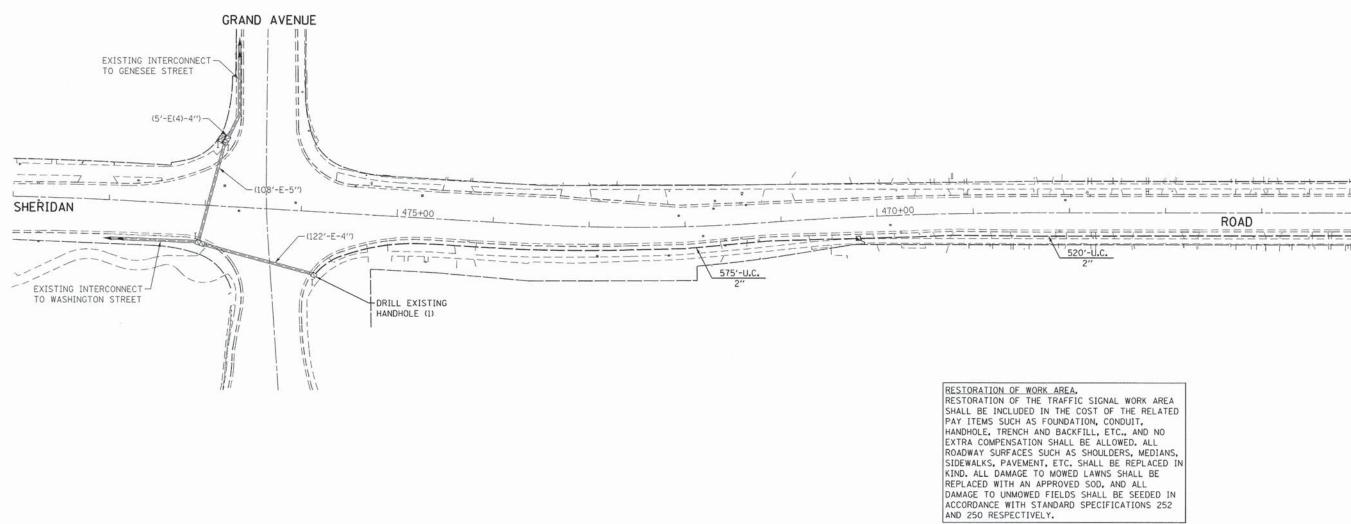




FILE NAME =	USER NAME = ZWellsten	DESIGNED	- JRD	REVISED -			TDAFE	CIO CIONI	AL BACOUTICATION D		F.A.	SECTION	COUNTY	TOTAL	SHEET
D161A55-Ø46-TS.dgn		DRAWN	- ZCW	REVISED -	STATE OF ILLINOIS				AL MODIFICATION P		RTE.	The second secon		SHEETS	NO.
	PLOT SCALE = 1:20	CHECKED	- DPB	REVISED -	DEPARTMENT OF TRANSPORTATION		IL 137 (SHERIDAI	N RD) AT IL 173 (21	ST ST)	-	12-00999-29-TL	LAKE	73 ACT NO. 6	46
Default	PLOT DATE = 8/14/2014	DATE	- 2/19/2014	REVISED -		SCALE: 1"=20"	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	CI NU. 6	CCAI



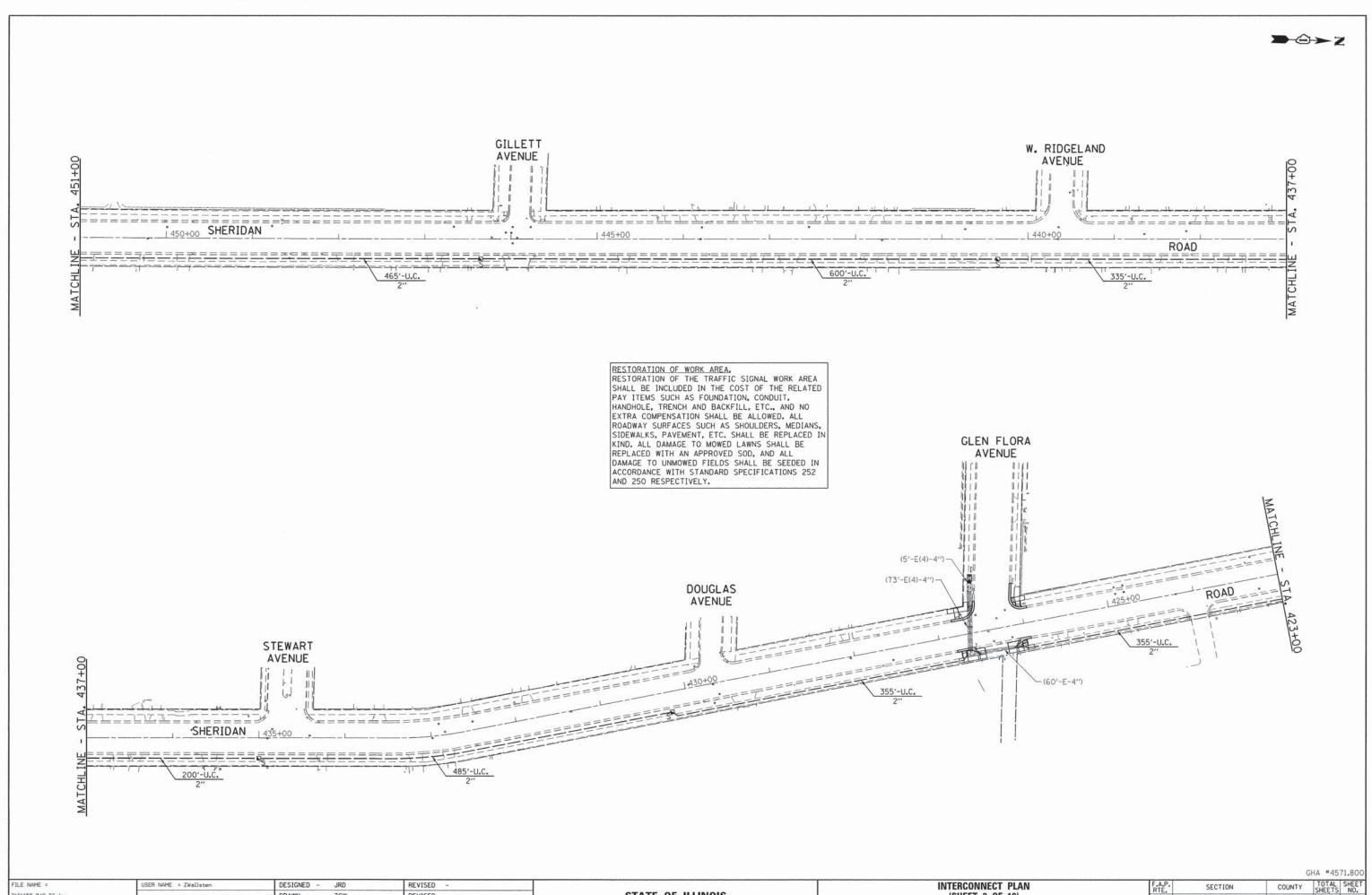








FILE NAME =	USER NAME = ZWallsten	DESIGNED - JRD	REVISED -	2.650 (ABA SA BA			INTER	RCONNI	ECT P	LAN		F.A.P.	SECTION	COUNTY	TOTAL	SHEET
D161A55-Ø48-TS.dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS			(SI	HEET 1	OF 10	0)		2736	12-00999-29-TI	LAKE	73	3 NO.
	PLOT SCALE = 1:50	CHECKED - DPB	REVISED -	DEPARTMENT OF TRANSPORTATION		GRAND	AVENU	E TO \	NADS	WORTH	ROAD	2130	12 00333 23 12	CONTRA	ACT NO.	
Default	PLOT DATE = 8/14/2014	DATE - 2/19/2014	REVISED -		SCALE: 1"=50"	SHEET	OF	SHE	ETS S	TA.	TO STA.		ILLINOIS FED.	AID PROJECT	01 1101	UINUU



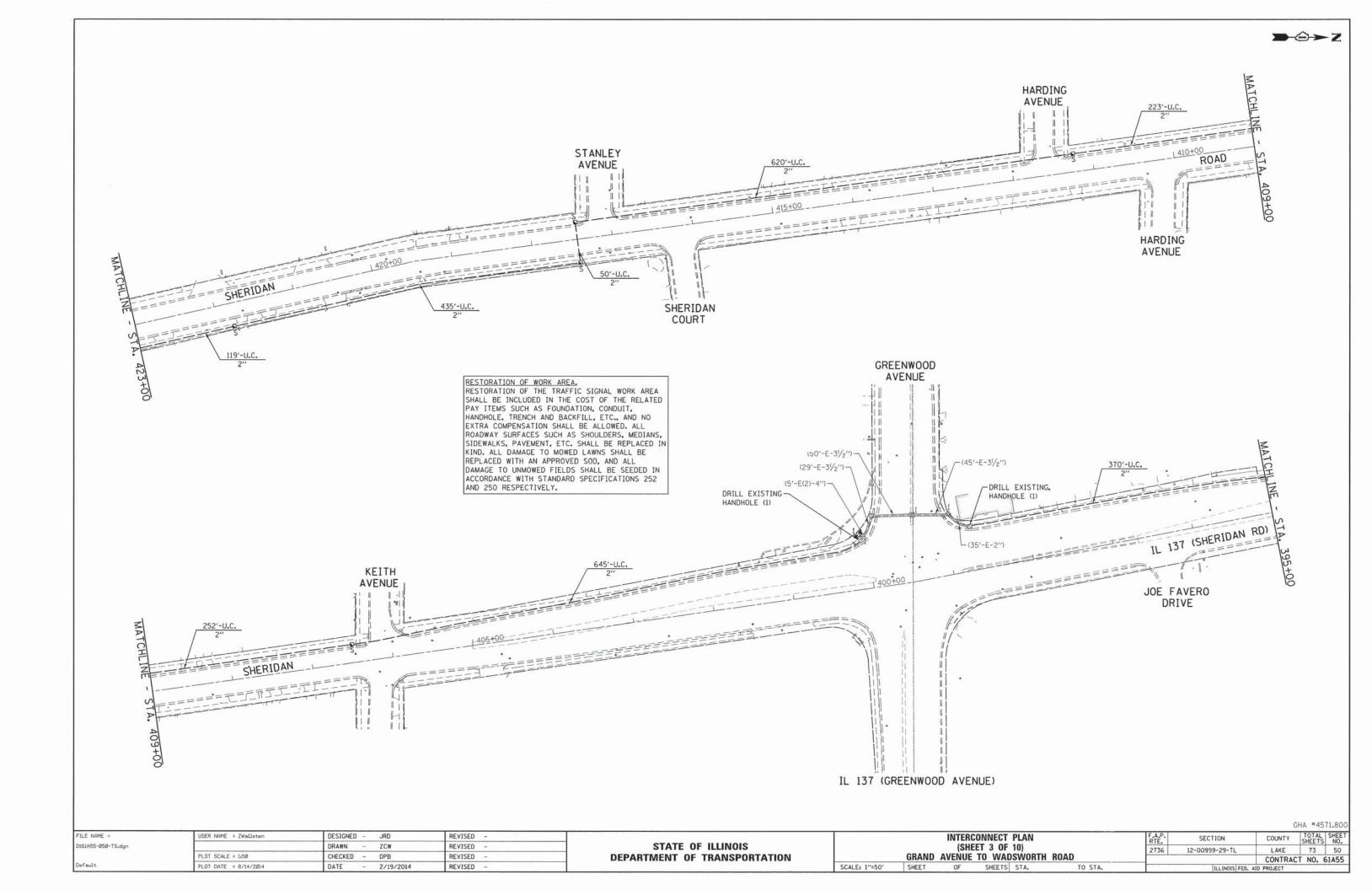
 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

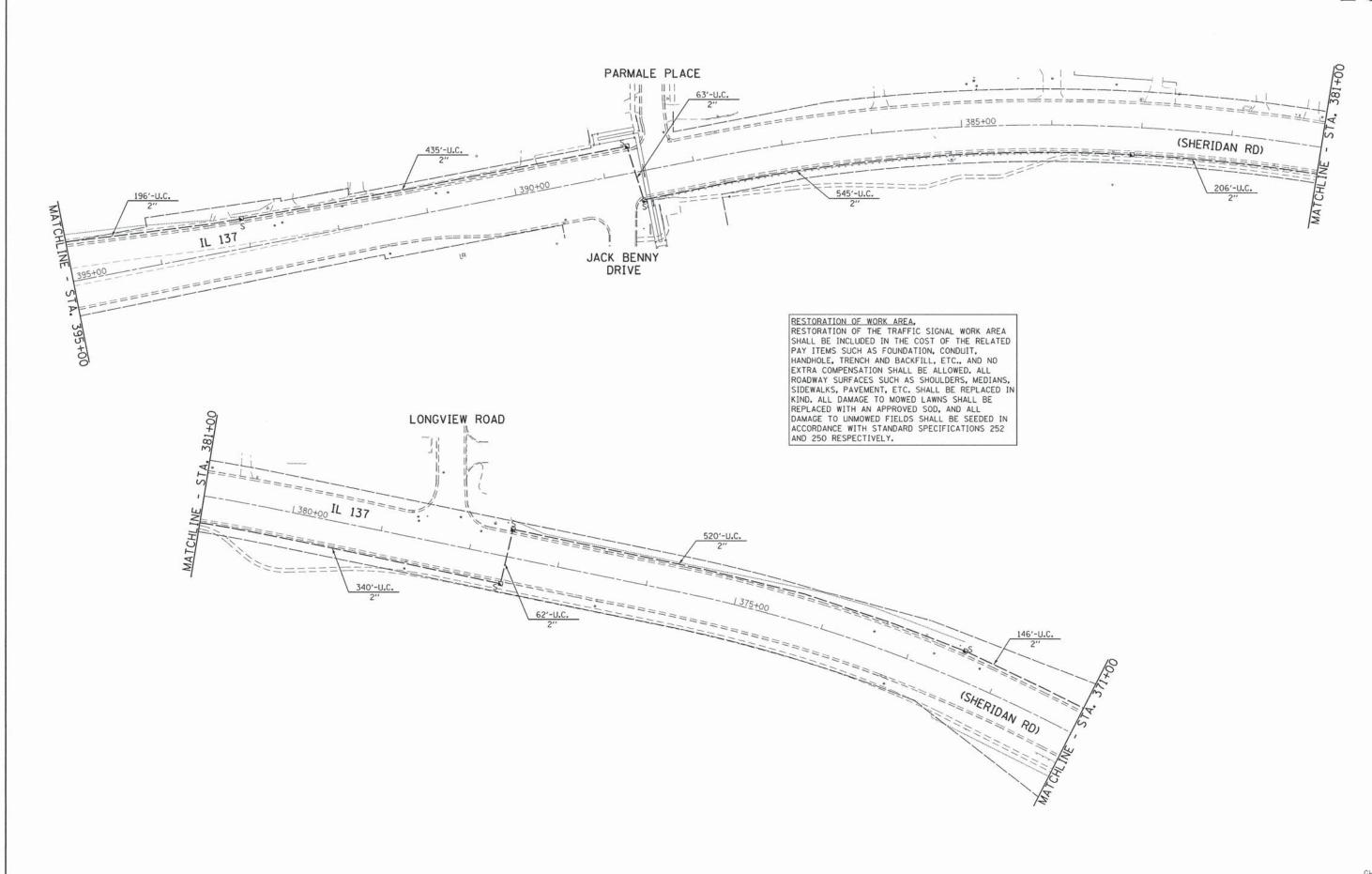
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(SHEET 2 OF 10)

GRAND AVENUE TO WADSWORTH ROAD

SHEET OF SHEETS STA. TO STA.





FILE NAME = DESIGNED - JRD REVISED -D161A55-Ø51-TS.dgn DRAWN ZCW REVISED PLOT SCALE = 1:50 CHECKED - DPB REVISED -PLOT DATE = 8/14/2014 DATE 2/19/2014 REVISED

USER NAME = ZWallster

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

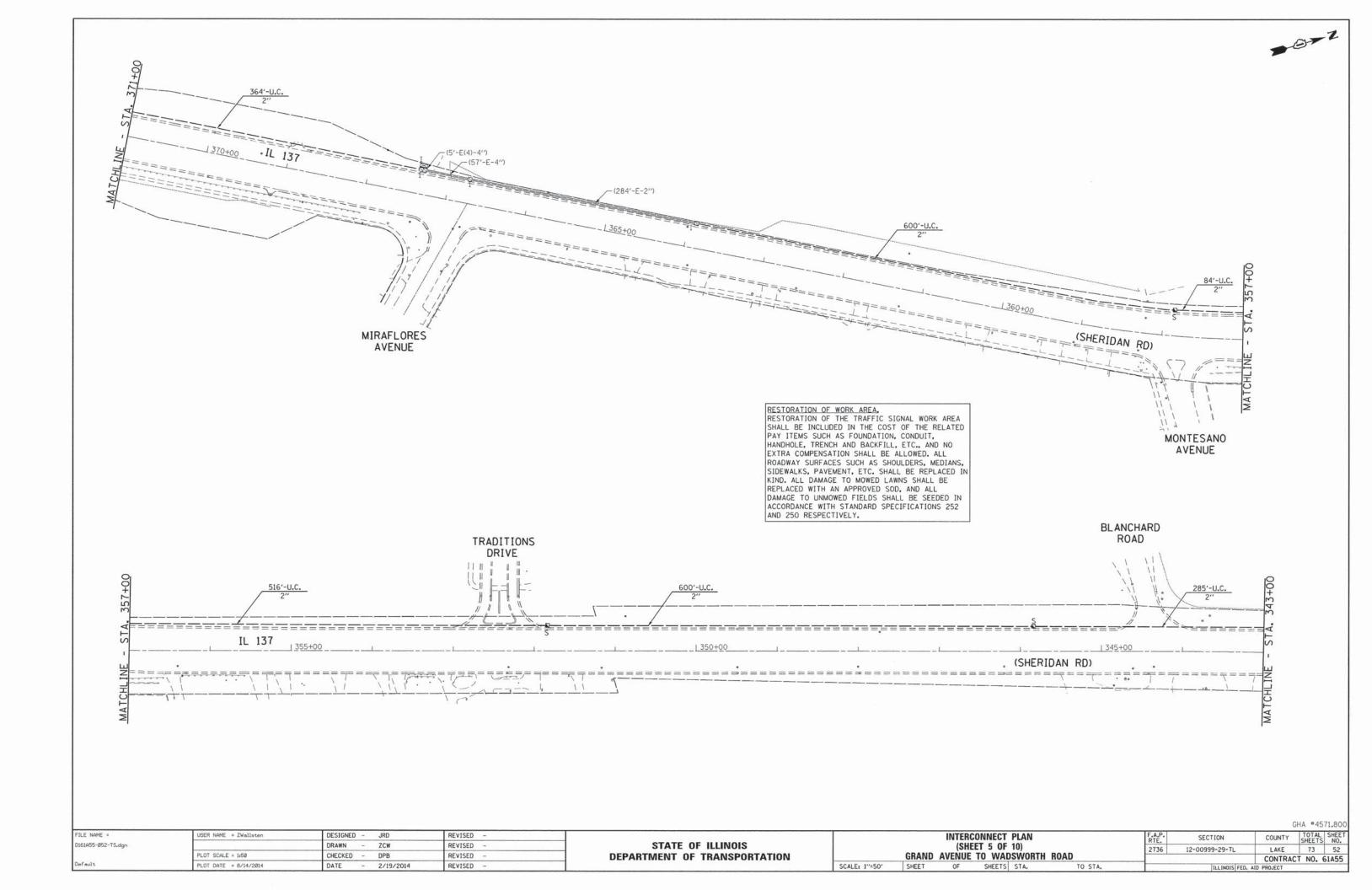
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INTERCONNECT PLAN
(SHEET 4 OF 10)
GRAND AVENUE TO WADSWORTH ROAD F.A.P. RTE. 2736 SECTION SHEETS STA. TO STA.

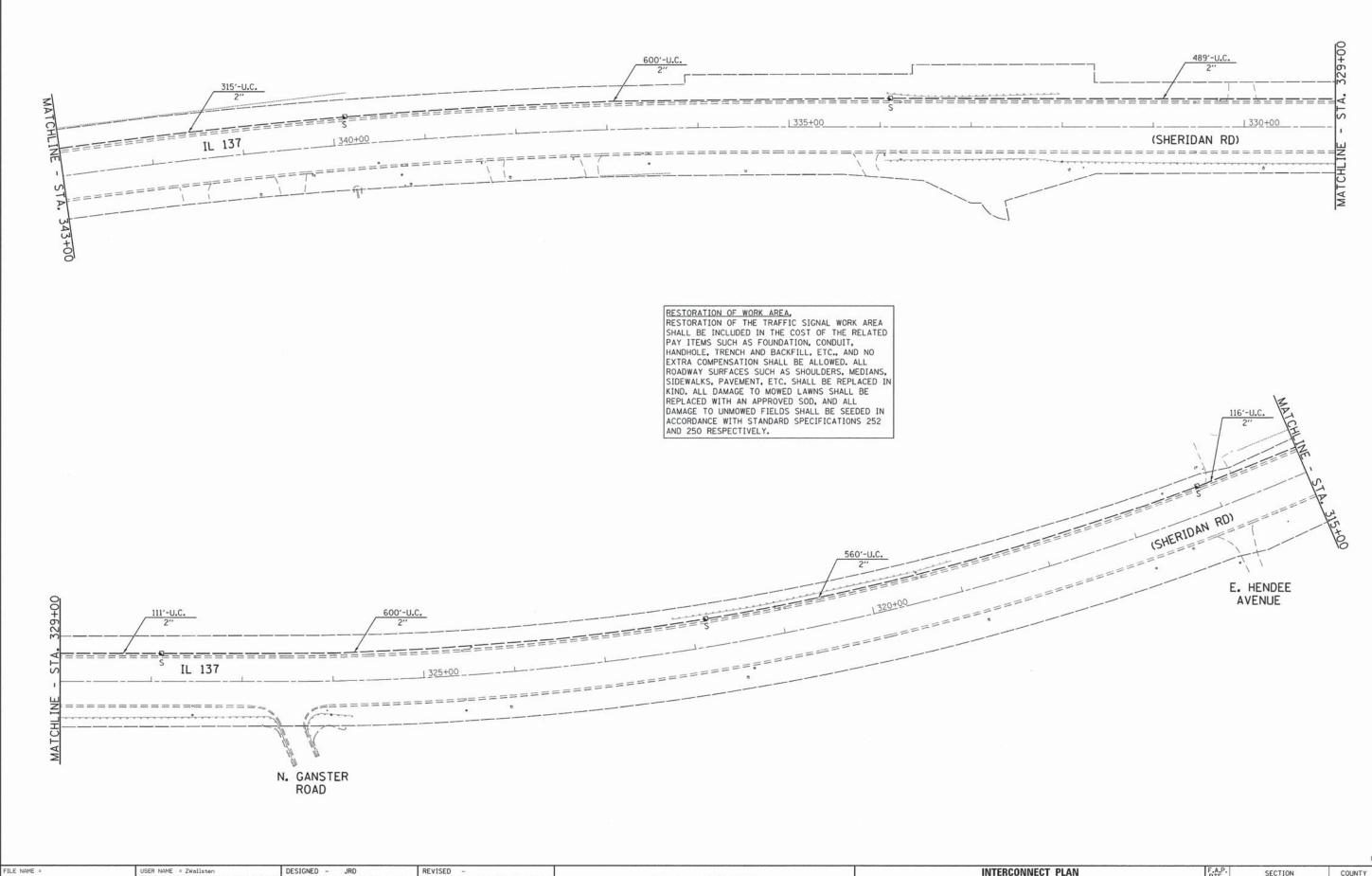
COUNTY SHEETS NO.

LAKE 73 51

CONTRACT NO. 61A55 12-00999-29-TL





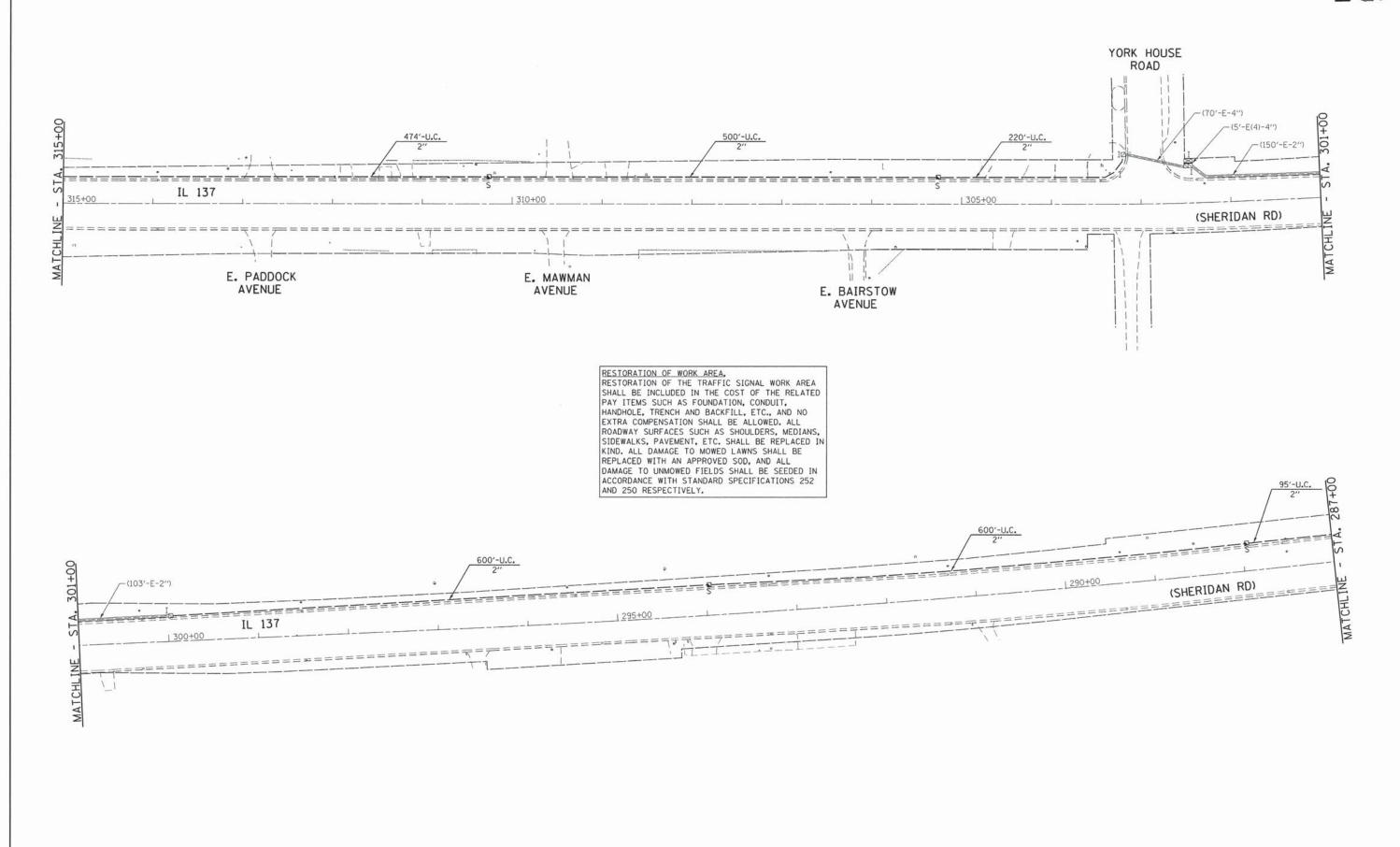


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
(SHEET 6 OF 10)
GRAND AVENUE TO WADSWORTH ROAD

SHEET OF SHEETS STA. TO STA.

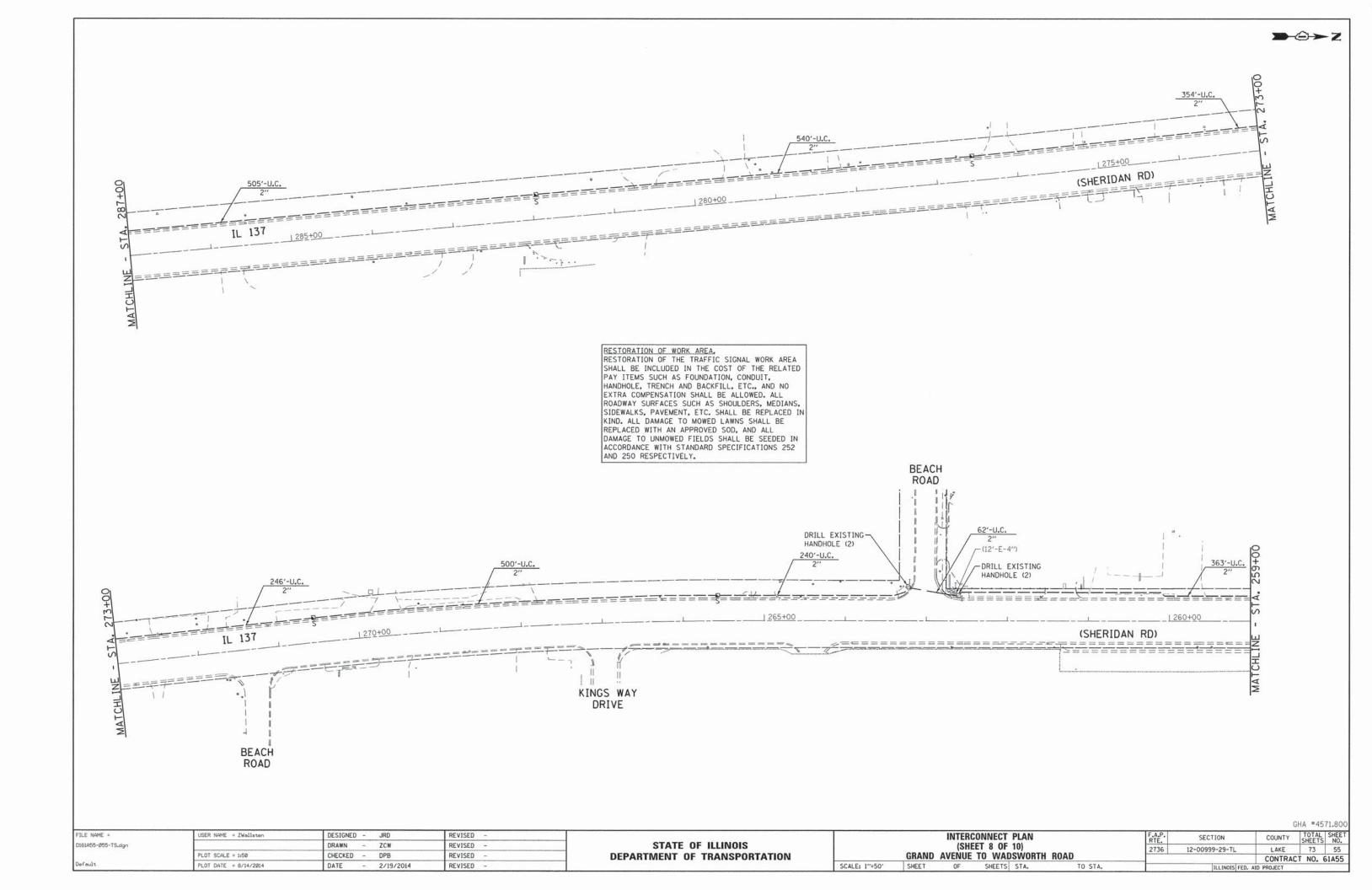
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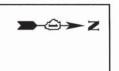


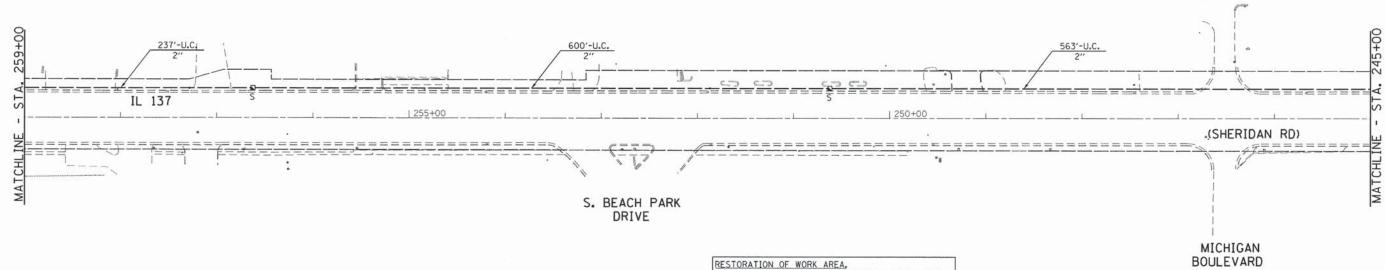
	GHA	#45	71.800
UNTY		TAL	SHEET NO.

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SCALE: 1"=50"

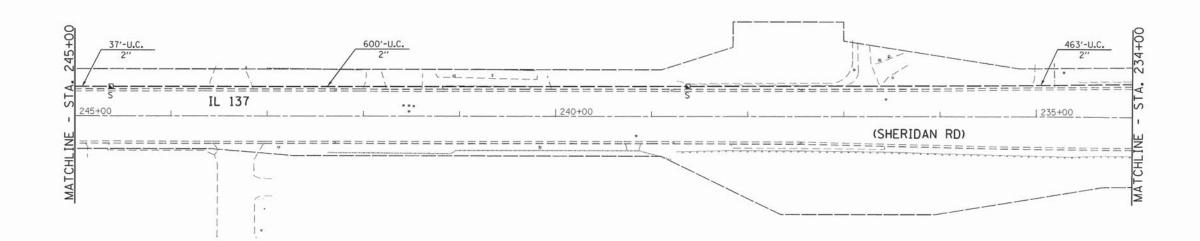






RESTORATION OF WORK AREA,
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA
SHALL BE INCLUDED IN THE COST OF THE RELATED
PAY ITEMS SUCH AS FOUNDATION, CONDUIT,
HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO
EXTRA COMPENSATION SHALL BE ALLOWED. ALL
ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS,
SIDEWALKS, PAVEMENT,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

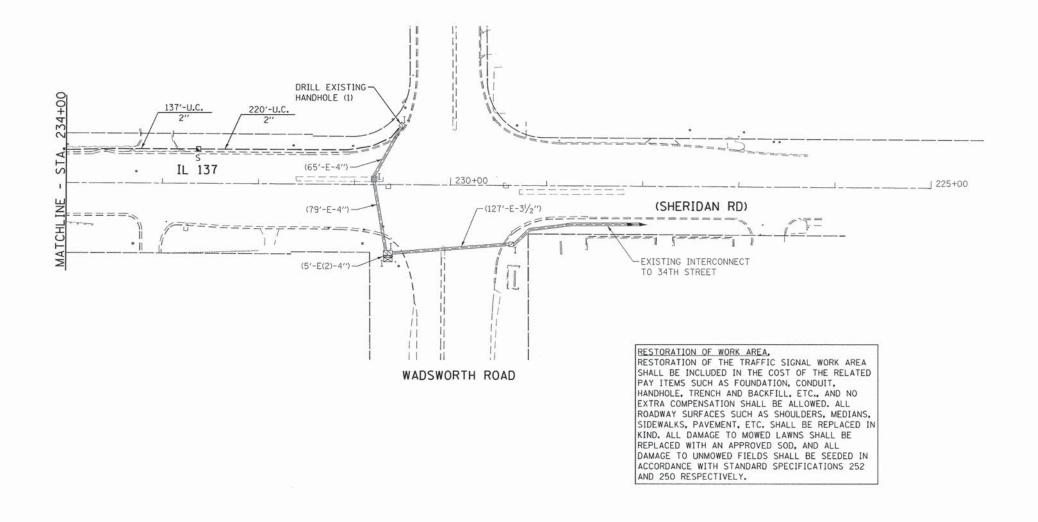
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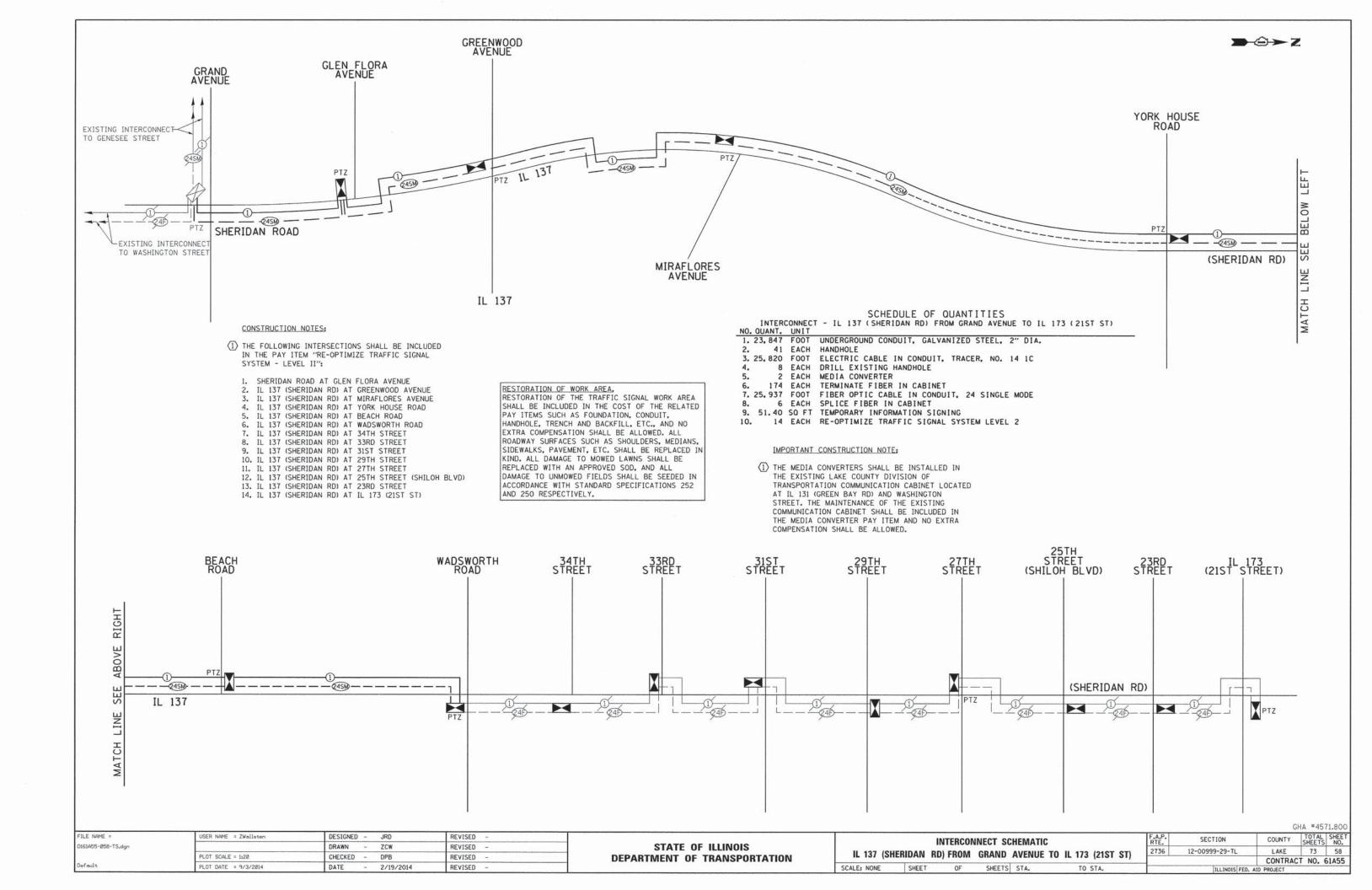
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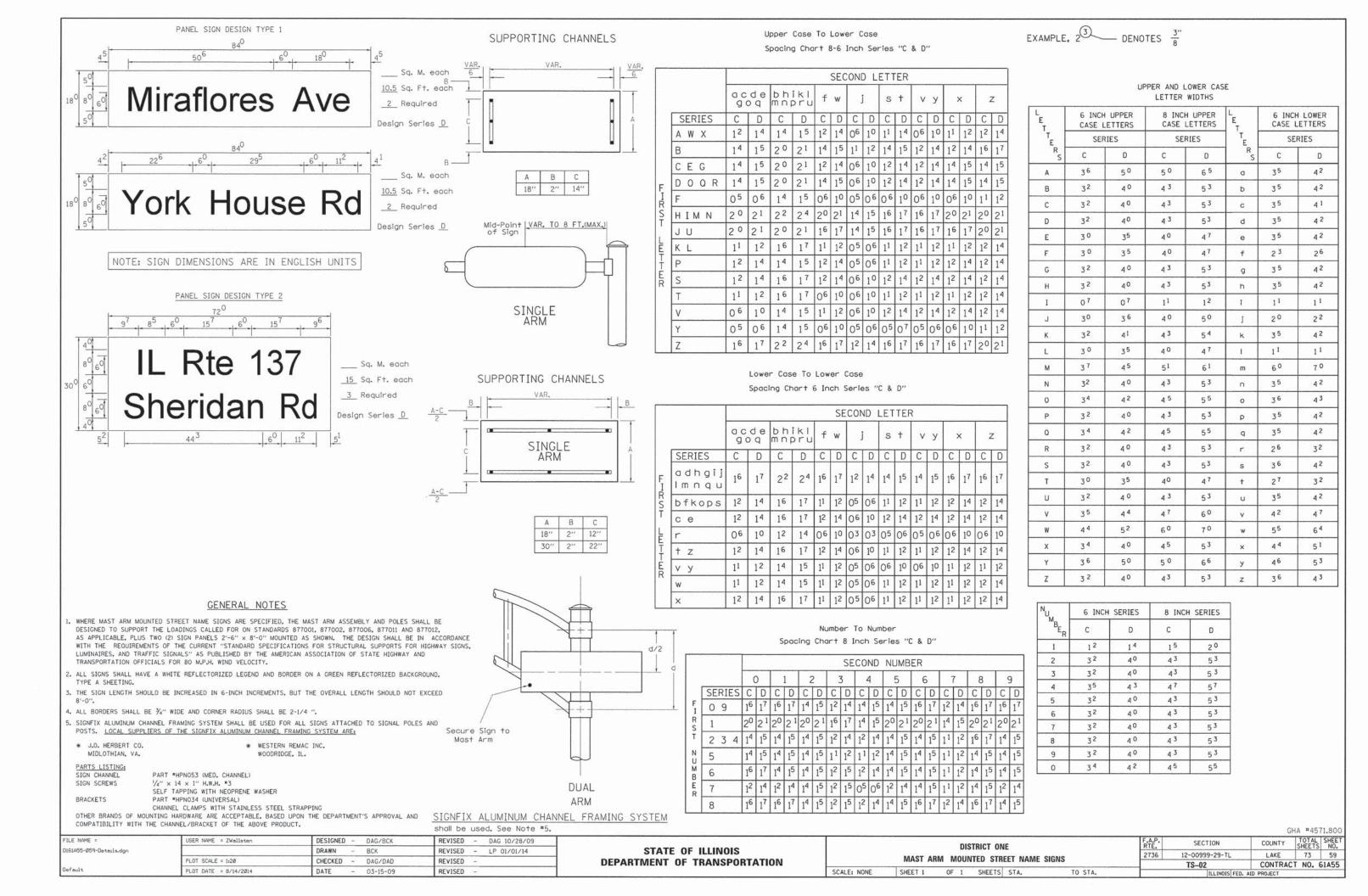
STATI	E 01	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

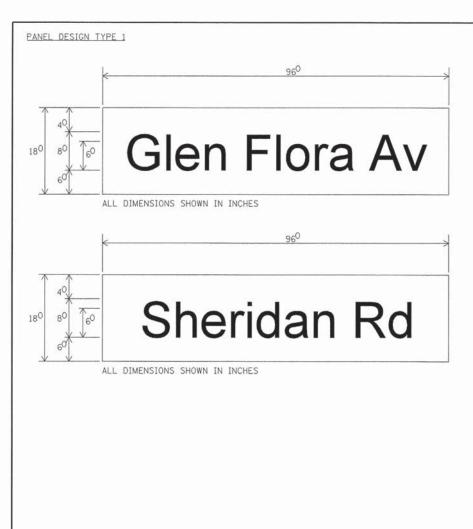
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		EET 9 OF			2736	12-00999-29-TL	LAKE	73	56
GRAND	AVENUE	TO WAD	SWORTH	ROAD			CONTRA	CT NO. 6	51A55
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	_		



FILE NAME =	USER NAME = ZWallsten	DESIGNED - JRD	REVISED -				INTER	CONNECT PLAN		F.A.P.	SECTION	COUNTY	TOTAL	SHEET
D161A55-Ø57-TS.dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS			(SHE	ET 10 OF 10)		2736	12-00999-29-TL	LAKE	73	57
	PLOT SCALE = 1:50	CHECKED - DPB	REVISED -	DEPARTMENT OF TRANSPORTATION		GRAND	AVENUE	TO WADSWORTH	ROAD	2.30	12 00333 23 12		ACT NO. 6	61455
Default	PLOT DATE = 8/15/2014	DATE - 2/19/2014	REVISED -		SCALE: 1"=50"	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	401 1102 0	01433







12.0_SQ. FT. EACH

____SINGLE SIDED REQUIRED

____DOUBLE SIDED REQUIRED

DESIGN SERIES ____D

CLEARVIEW FONT

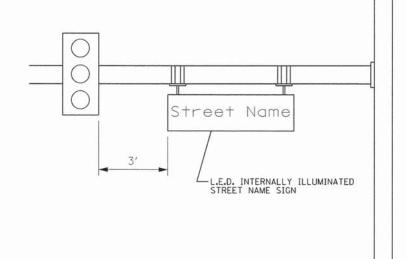
12.0.SO. FT. EACH

SINGLE SIDED REQUIRED

DOUBLE SIDED REQUIRED

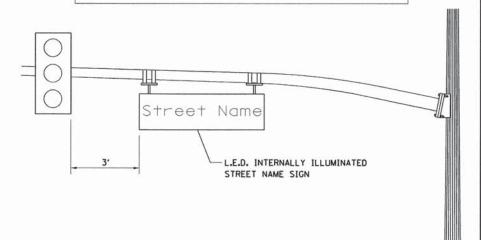
DESIGN SERIES

CLEARVIEW FONT



REGULAR STEEL MAST ARM ASSEMBLY AND POLE

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS AVAILABLE ONLY IN 2 FOOT INCREMENTS.



DECORATIVE STEEL MAST ARM ASSEMBLY AND POLE

				業 Lak	eCour	nty	on
REVISIONS	- N					1	
NAME	DATE		MAS	T ARM	I MC	NUC	ITED
COMBINED SHEETS	2/1/07		STR	EET N	AME	S	IGNS
		SCALE: DATE:	NONE 7/26/06	SHEET	1 OF	4	DESIGNED BY: CHECKED BY: GHA #4571.8

FILE NAME = D161A55-060-Details.dgn
 USER NAME
 = ZWellsten
 DESIGNED
 JRD
 REVISED

 DRAWN
 ZCW
 REVISED

 PLOT SCALE = 1:28
 CHECKED
 DPB
 REVISED

 PLOT DATE
 = 8/14/2814
 DATE
 2/19/2014
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH / SHERIDAN FIBER OPTIC CABLE TERMINATION/SPLICING QUANTITIES (BY INTERSECTION/LOCATION) INCLUDED BID ITEM T S T S INTERSECTION/LOCATION SHERIDAN ROAD AT GRAND AVENUE SHERIDAN ROAD AT GLEN FLORA AVENU SHERIDAN L 137 (SHERIDAN RD) AT GREENWOOD AVENU IL 137 (SHERIDAN RD) AT MIRAFLORES AVENUE L 137 (SHERIDAN RD) AT YORK HOUSE ROAD IL 137 (SHERIDAN RD) AT BEACH ROAD 24 IL 137 (SHERIDAN RD) AT WADSWORTH ROAD 6 12 24 24 24 24 24 24 L 137 (SHERIDAN RD) AT 34TH STREE IL 137 (SHERIDAN RD) AT 33RD STREET IL 137 (SHERIDAN RD) AT 33RD STREET IL 137 (SHERIDAN RD) AT 31ST STREET IL 137 (SHERIDAN RD) AT 29TH STREET IL 137 (SHERIDAN RD) AT 27TH STREET BEACH / SHERIDAN L 137 (SHERIDAN RD) AT 25TH STREET (SHILOH BLVD) L 137 (SHERIDAN RD) AT 23RD STREET IL 173 (SHERIDAN RD) AT IL 173 (21ST STREET) TOTAL FOR CONTRACT 174 T = TERMINATE FIBER IN CABINET YORK HOUSE / S = SPLICE FIBER IN CABINET MIRAFLORES/ SHERIDAN GREENWOOD/ GLEN FLORA SHERIDAN IL132/ IL132 / IL132/ IL132 / IL132/ IL132 / IL132 / BUTRICK McAREE **JACKSON** WEST COUNTY GENESE LEWIS IL132 / 7 - 10 7 - 10 7 - 10 7 - 10 7 - 10 7 - 10 7 - 10 7 - 10 11 - 12 11 - 12 11 - 12 11 - 12 11 - 12 11 - 12 11 - 12 11 - 12 19 - 24 19 - 24 19 - 24 19 - 24 19 - 24 19 - 24 19 - 24 19 - 24 WASH / WASH / MLK COUNTY GENESE 13 - 16 TO WASHINGTON / 11 - 12 11-12 11 - 12 19 - 24 19 - 22 19 - 22 19 - 22 COUNTY GHA #4571.800 SHEET SHEETS ROUTE SECTION ROUTE SECTION

EXISTING FIBER / EXISTING TERMINATION	0
EXISTING FIBER / PROPOSED TERMINATION	
EXISTING FIBER / EXISTING SPLICE	
EXISTING FIBER / PROPOSED SPLICE	
PROPOSED FIBER / PROPOSED TERMINATION	
PROPOSED FIBER / PROPOSED SPLICE	
	DESIGNED - D
	DRAWN - YM
	CHECKED - Do
	DATE 2014/02

IL132 /

BALDWIN

TO TERESE /

WASHINGTON

7 - 10

11 - 12

19 - 24

IL131 / BROOKSIDE

IL131 /

19 - 24

TO IL120 / IL131

WASHINGTON

IL132 /

IL131

WASHINGTON

REVISED -

REVISED -

REVISED -

REVISED

SCALE N/A

61

REVISED -

REVISED -

REVISED -

REVISED -

LAKE COUNTY

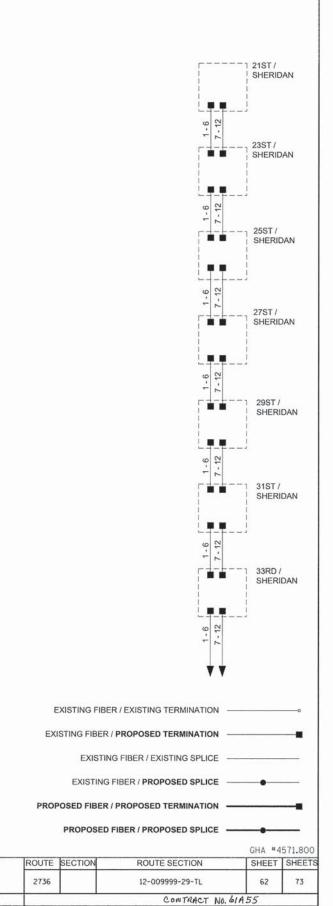
DIVISION OF TRANSPORTATION

DESIGNED - DG

DRAWN - YM

CHECKED - DG

DATE 2014/02/17



FIBER SPLICING DIAGRAM 2 IL132 / SHERIDAN

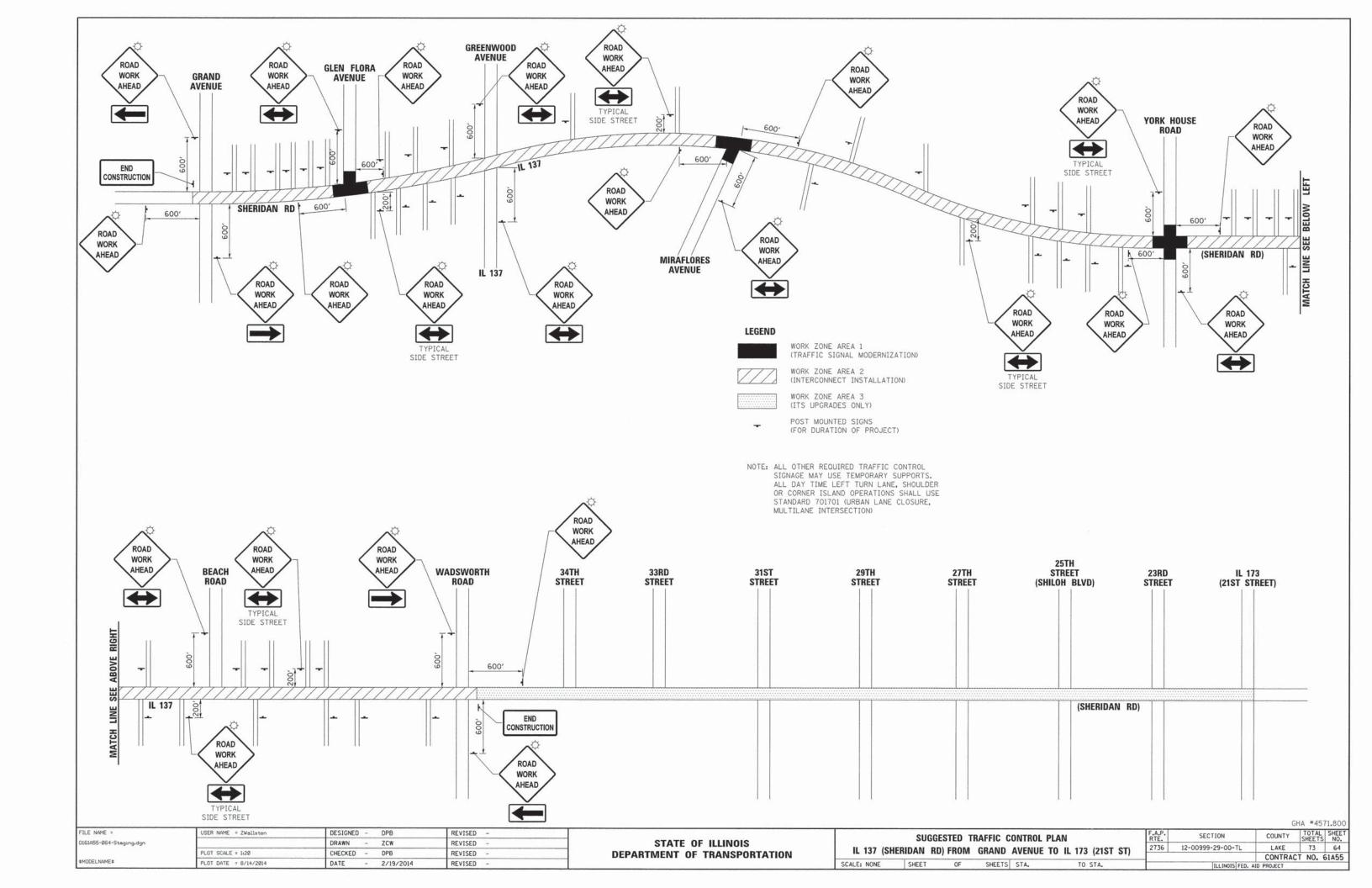
SCALE N/A

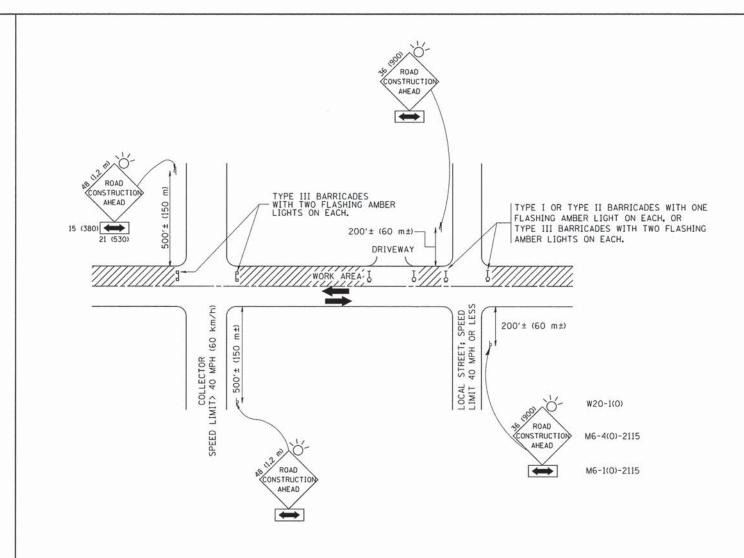
Delcan PTZ VIDEO ENCODER VIDEO ENCODER VIDEO ENCODER VIDEO ENCODER VIDEO ENCODER VIDEO ENCODER SIGNAL SIGNAL CONTROLLER SIGNAL SIGNAL CONTROLLER SIGNAL CONTROLLER SIGNAL CONTROLLER DETECTOR INT **CISCO 3560** FLORA / SHEF COUNTY BUILDI 띩 **CISCO 2955 CISCO 2955 CISCO 2955 CISCO 2955 CISCO 2955 CISCO 2955 CISCO 2955** GLEN **CISCO 2955 CISCO 2955 CISCO 2955 CISCO 2955 CISCO 2955 CISCO 2955 CISCO 2955** CISCO 3560 VIDEO ENCODER VIDEO ENCODER SIGNAL CONTROLLER SIGNAL SIGNAL CONTROLLER SIGNAL CONTROLLER SIGNAL CONTROLLER SIGNAL CONTROLLER SIGNAL CONTROLLER EXISTING EQUIPMENT PROPOSED EQUIPMENT EXISTING SINGLEMODE PROPOSED SINGLEMODE EXISTING MULTIMODE PROPOSED MULTIMODE GHA #4571.800 SHEET SHEETS REVISED -DESIGNED - DG ROUTE SECTION ROUTE SECTION LAKE COUNTY CABINET DETAIL DRAWN - YM REVISED -IL132 / SHERIDAN 2736 63 73 12-009999-29-TL DIVISION OF TRANSPORTATION CHECKED - DG REVISED -

SCALE N/A

CONTRACT No. 61455

DATE 2014/02/17





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
- 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:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
- 3. 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).

SCALE: NONE

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

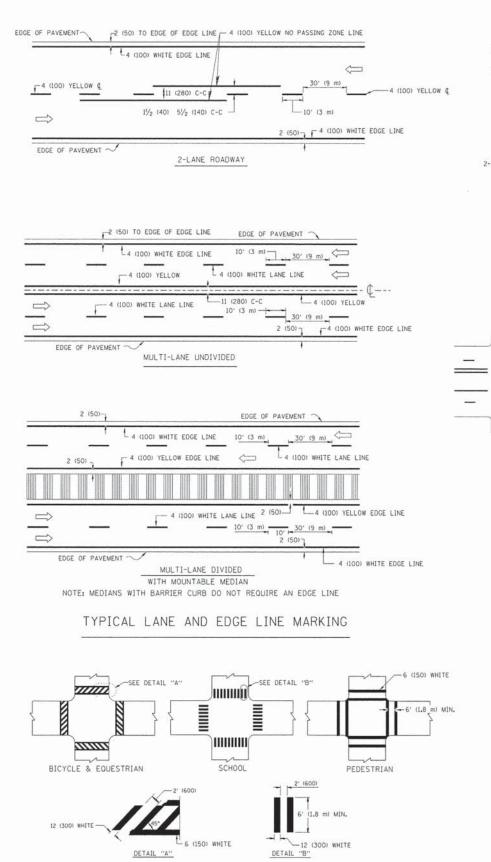
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

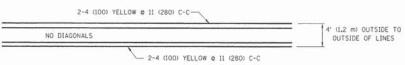
All dimensions are in millimeters (inches) unless otherwise shown. GHA #4571.800 SHEET NO. 65 1A55

FILE NAME =	USER NAME = ZWallsten	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
D161A55-065-Details.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 1:20	CHECKED -	REVISED - A. HOUSEH 10-15-96
Default	PLOT DATE = 8/14/2014	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

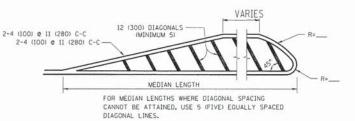
STATI	E 0	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	TRAFFI	C CONTI	OL AND P	ROTECTION	FOR	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SI
	CIDE DO	DC INITE	DEFECTIONS	AND DRIVE	WAVE	2736	12-009999-29-TL	LAKE	73	
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS							TC-10	CONTRACT NO. 6		
	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



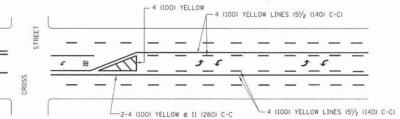


4' (1.2 m) WIDE MEDIANS ONLY



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

MEDIANS OVER 4' (1.2 m) WIDE

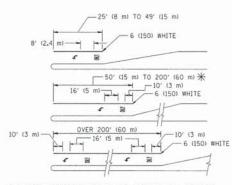


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

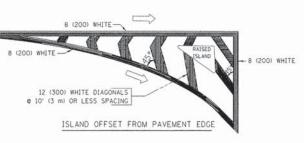


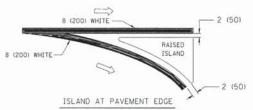
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) ONLY AREA = 20.8 SO. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING





TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAYEMENT	2 9 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (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' (500) APART 2' (500) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	жнітє	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT. OTHERNISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	жнітє	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) a 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

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

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

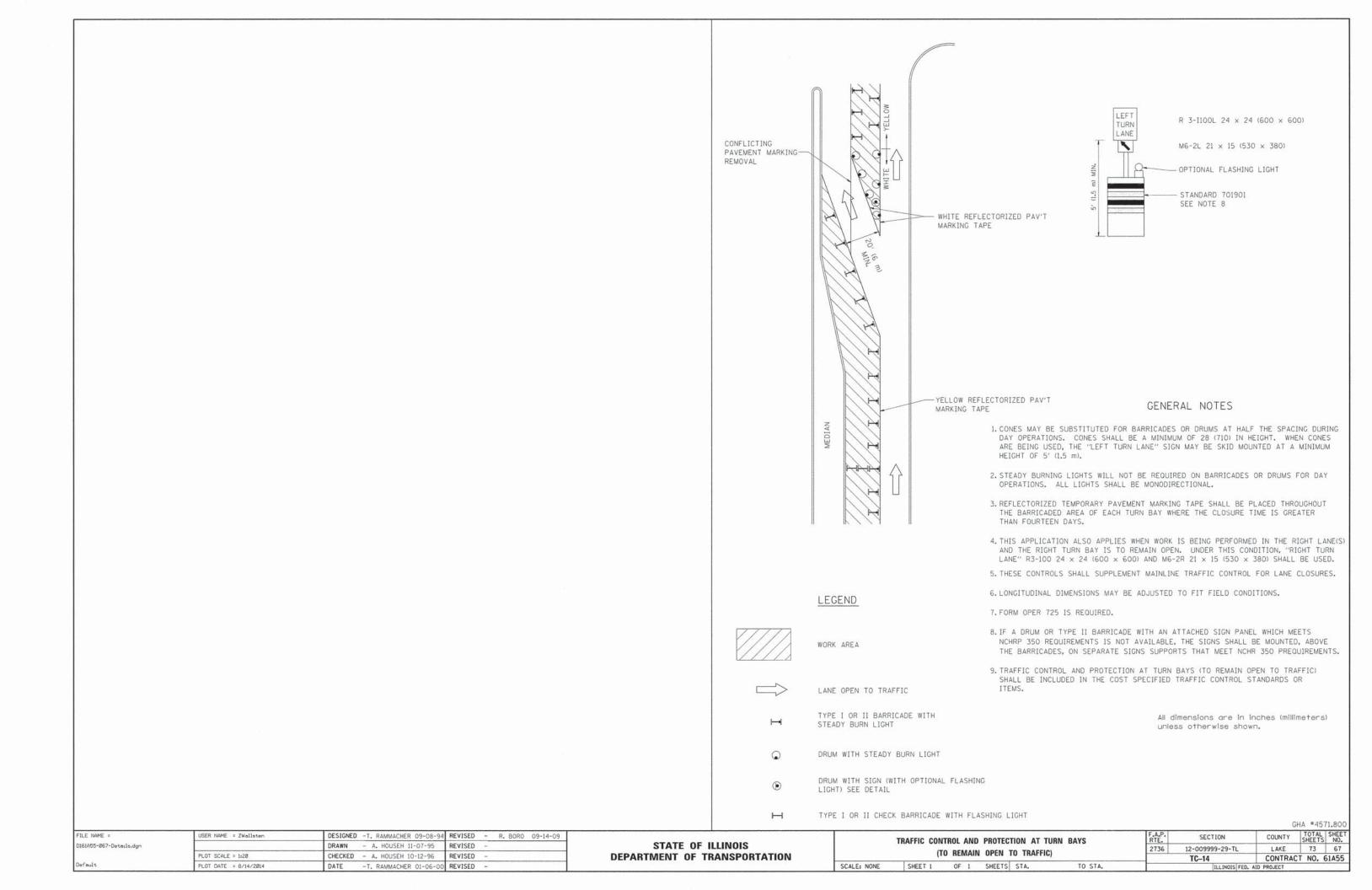
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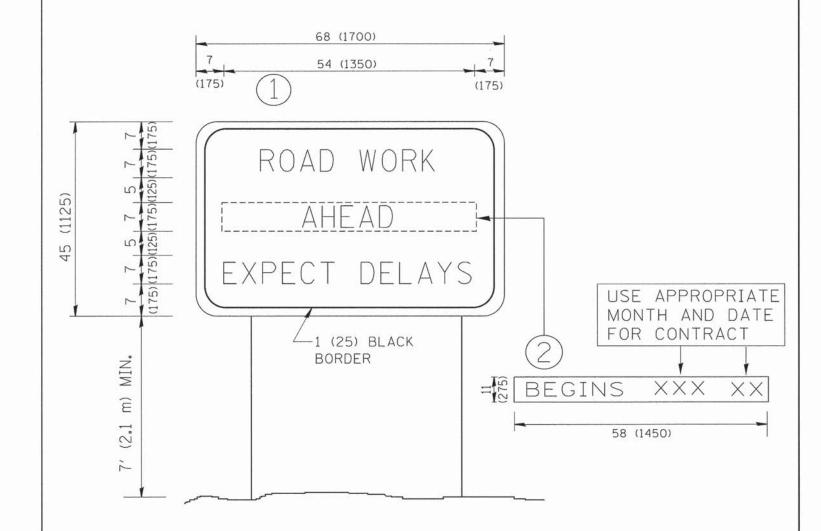
GHA #4571.800

TYPICAL CROSSWALK MARKING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		DISTRICT ON	VE	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
	TVDI	CAL PAVEMENT		2736	12-009999-29-TL	LAKE	73	66	
	1170	GAL PAVEIVICIVI		TC-13	CONTRAC	T NO.	61A55		
SCALE: NONE	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.					ILLINOIS FED.	AID PROJECT		





NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.

SCALE: NONE

- 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.

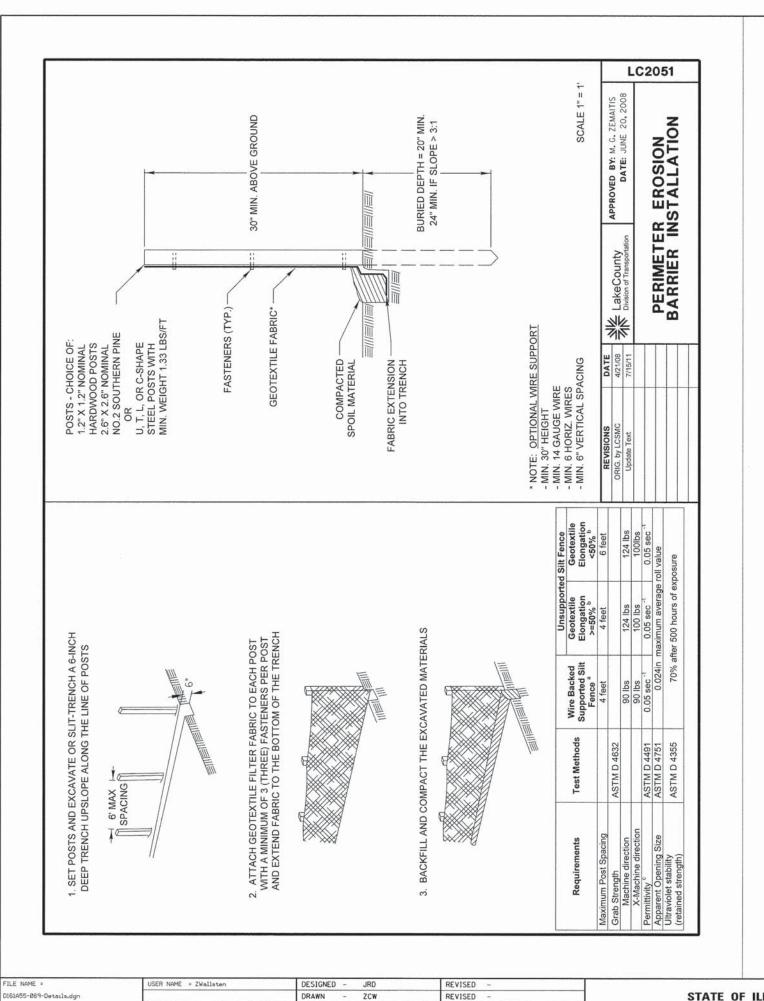
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

COUNTY TOTAL SHEET NO.

FILE NAME =	USER NAME = ZWallsten	DESIGNED -	REVISED - R. MIRS 09-15-97
D161A55-068-Details.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 1:20	CHECKED -	REVISED - T. RAMMACHER 02-02-99
Default	PLOT DATE = 8/14/2014	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS								
DEPARTMENT	0F	TRANSPORTATION						

ARTERIAL ROAD						SECTION	COUNTY	TOTAL	SHEET NO.	
					2736	12-009999-29-TL	LAKE	73	68	
INFORMATION SIGN						TC-22	CONTRACT NO. 61A55			
SHEET 1 OF 1 SHEETS STA. TO STA.					ILLINOIS FED. AID PROJECT					



PLOT SCALE = 1:20

PLOT DATE = 8/14/2014

CHECKED

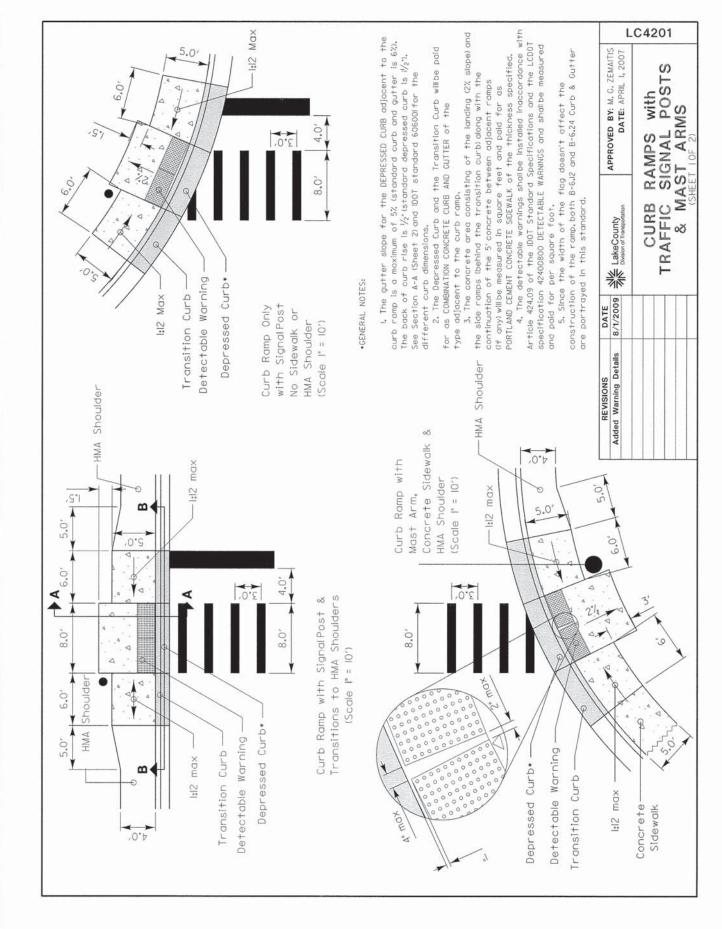
DATE

DPB

- 2/19/2014

REVISED

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GHA #4571.800

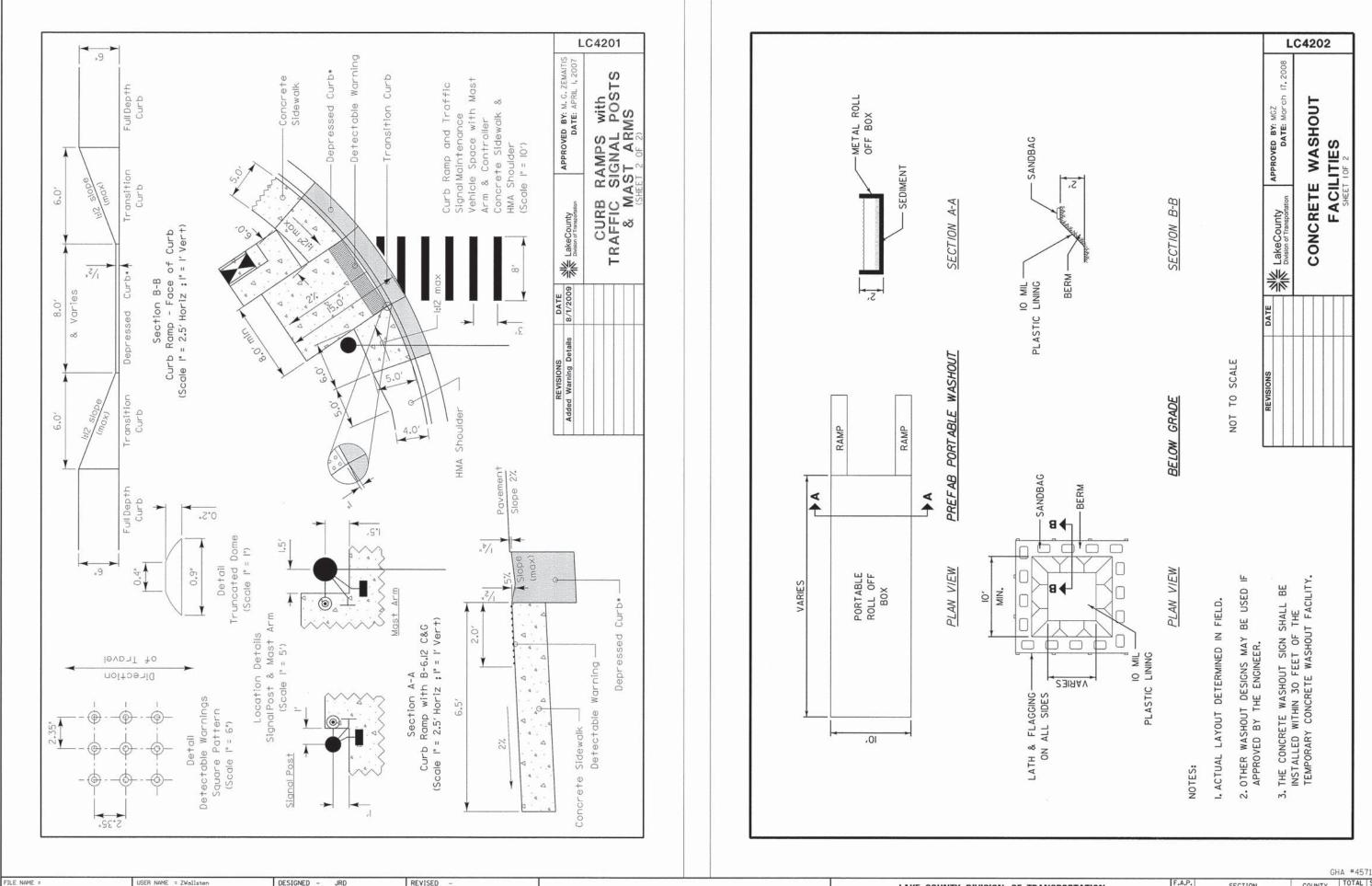
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION STANDARD DETAILS OF SHEETS STA. SCALE: NONE SHEET TO STA.

COUNTY TOTAL SHEET NO.

LAKE 73 69

CONTRACT NO. 61A55 SECTION F.A.P. RTE. 2736 12-00999-29-TL



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

USER NAME = ZWallsten

PLOT SCALE = 1:20

PLOT DATE = 8/14/2014

)161A55-070-Details.dgn

DESIGNED - JRD

ZCW

DPB

2/19/2014

DRAWN

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REVISED

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REVISED

REVISED

LAKE COUNTY DIVISION OF TRANSPORTATION STANDARD DETAILS SHEET SHEETS STA. TO STA.

SCALE: NONE

F.A.P. RTE. 2736 SECTION 12-00999-29-TL

LC7200 APPROVED BY: ANTHONY KHAWAJA
DATE: APRIL 1, 2007
OF TRAFFIC CONTROL DEVICES
TION, CONTRACT MAINTENANCE
CATOR BARRICADES SHOULDER SIDE 61/5" FACING AWAY FROM TRAFFIC (BACK SIDE OF BARRICADE) ARROW DETAIL 1,-9 DIRECTION INDICATOR BARRICADES ROAD SIDE 31/5. ORANGE AND WHITE DIAGONAL SHEETING **BOTTOM PANEL TOP PANEL** 24" 8" x 24" ---from non-metallic Type II barricades meeting the requirements of Article 1106.02 of the Standard Specifications, except where modified by this detail.

2) The Direction Indicator Barricades shall be equipped with Type C steady burning lights if used to channelize traffic during the hours of darkness.

3) The reflective sheeting for the top panel shall be Type AZ fluorescent orange. The diagonal panels shall have orange and white Type A or better reflective Direction Indicator Barricades shall be constructed ROAD SIDE FACING TOWARD TRAFFIC (FRONT SIDE OF BARRICADE) GENERAL NOTES BLACK ARROW ON FLORESCENT ORANGE SHEETING SHOULDER SIDE sheeting 7 5 3

GHA #4571.800 COUNTY SHEETS NO.

LAKE 73 71

CONTRACT NO. 61A55

DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION STANDARD DETAILS SCALE: NONE SHEETS STA. SHEET

F.A.P. RTE. SECTION 2736 12-00999-29-TL TO STA. ILLINOIS FED. AID PROJECT

FILE NAME = USER NAME = ZWallster DESIGNED -JRD REVISED 161A55-071-Details.dgn ZCW REVISED DRAWN PLOT SCALE = 1:20 CHECKED DPB REVISED PLOT DATE = 8/14/2014 2/19/2014 REVISED

STATE OF ILLINOIS

