

FOR INDEX OF SHEETS AND LIST OF HIGHWAY STANDARDS,
SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN:
CITY OF AURORA, VILLAGE OF N. AURORA,
CITY OF BATAVIA, CITY OF GENEVA, AND
VILLAGE OF ELBURN

TRAFFIC DATA

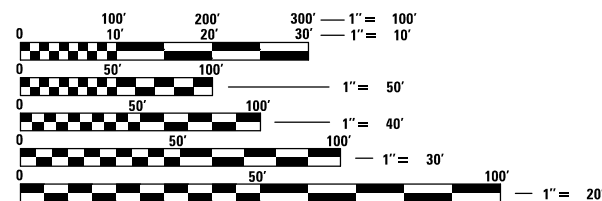
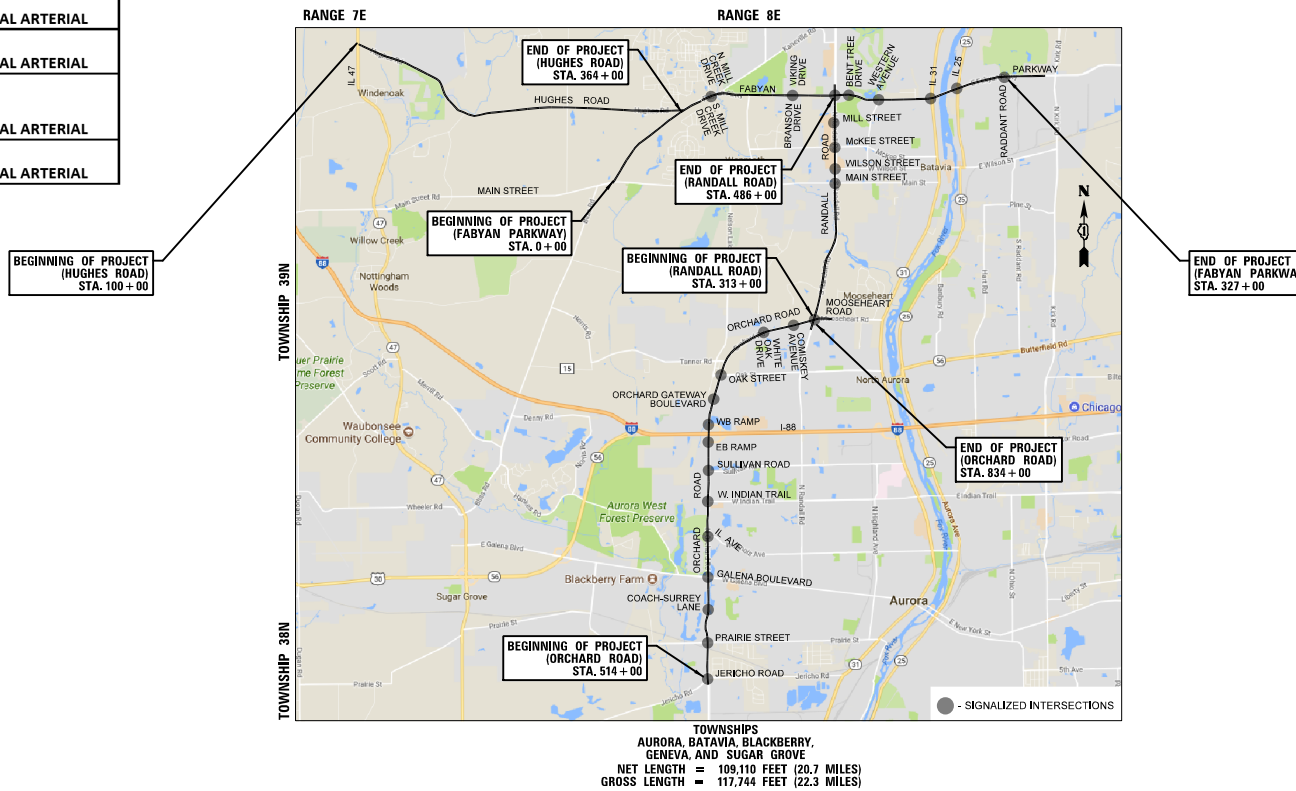
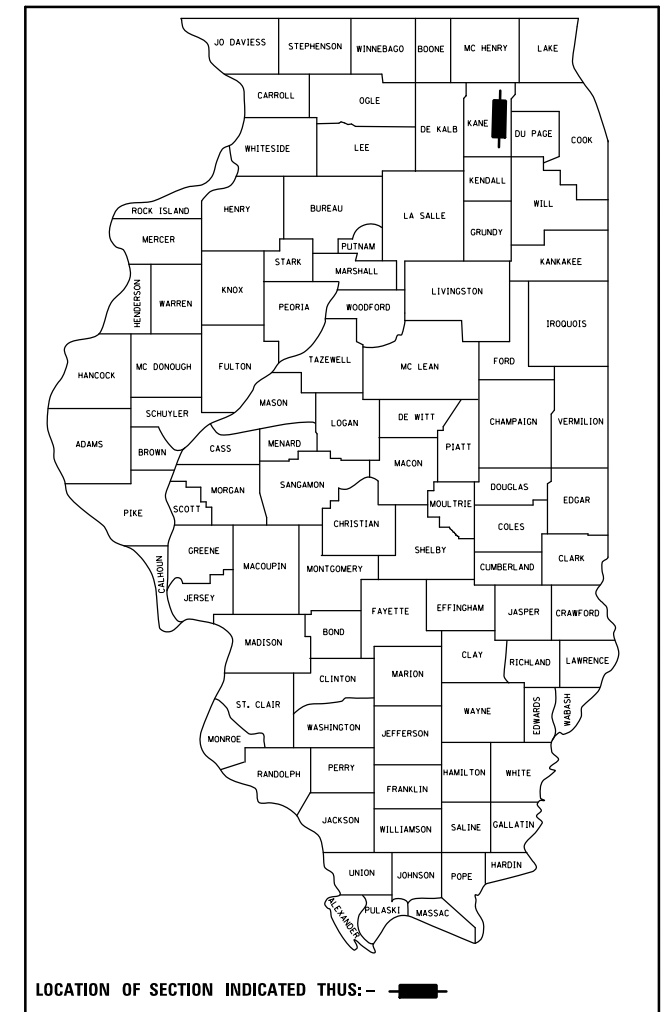
FAU NUMBERS	ROUTE SEGMENT	SPEED (MPH)	ADT (2015)	CLASSIFICATION
523	FABYAN PARKWAY MAIN STREET TO HUGHES ROAD	45	7,850	URBAN 2 LANE, MINOR ARTERIAL
	FABYAN PARKWAY HUGHES ROAD TO KANEVILLE ROAD	45	11,550	URBAN 2 LANE, MINOR ARTERIAL
	FABYAN PARKWAY KANEVILLE ROAD TO WENMOTH ROAD	45	14,250	URBAN 2 LANE, MINOR ARTERIAL
	FABYAN PARKWAY WENMOTH ROAD TO RANDALL ROAD	45	12,950	URBAN 2/4 LANE, MINOR ARTERIAL
363	FABYAN PARKWAY RANDALL ROAD TO WESTERN AVENUE	45	27,600	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL
	FABYAN PARKWAY WESTERN AVENUE TO IL ROUTE 31	40	26,700	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL
	FABYAN PARKWAY IL ROUTE 31 TO RADDANT ROAD	45	31,900	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL
	HUGHES ROAD IL ROUTE 47 TO FABYAN PARKWAY	50	3,100	URBAN 2 LANE, MAJOR COLLECTOR
336	ORCHARD ROAD JERICHO ROAD TO W. INDIAN TRAIL	45	30,700	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL
	ORCHARD ROAD W. INDIAN TRAIL TO I-88	50	29,900	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL
	ORCHARD ROAD I-88 TO OAK STREET	50	17,500	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL
	ORCHARD ROAD OAK STREET TO RANDALL ROAD	50	13,600	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL
336	RANDALL ROAD ORCHARD/MOOSEHEART ROAD TO MAIN STREET	50	32,400	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL
	RANDALL ROAD MAIN STREET TO FABYAN PARKWAY	45	36,400	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

**F.A.P. 363 / 523 (FABYAN PARKWAY)
FROM MAIN STREET TO RADDANT ROAD
NON FA 2341 (HUGHES ROAD)
FROM IL ROUTE 47 TO FABYAN PARKWAY
F.A.P. 336 (ORCHARD ROAD)
FROM JERICHO ROAD TO RANDALL ROAD
F.A.P. 336 (RANDALL ROAD)
FROM ORCHARD ROAD / MOOSEHEART ROAD
TO FABYAN PARKWAY
HIGHWAY SAFETY IMPROVEMENTS
SECTION: 12-00424-00-SP
PROJECT NO.: W3HX(781)
KANE COUNTY
JOB NO.: C-91-294-13**



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

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

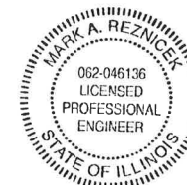
CONTRACT NO. _____

CB CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500



December 11, 2017

LEE M. FELL
ILLINOIS REGISTRATION No. 062-053708
EXPIRATION DATE: 11/30/2019



December 11, 2017

MARK A. REZNICEK
ILLINOIS REGISTRATION No. 062-046136
EXPIRATION DATE: 11/30/2019

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED _____ 20 _____
KANE COUNTY, COUNTY ENGINEER

PASSED _____ 20 _____
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
BASED ON LIMITED
REVIEW _____ 20 _____
REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

George M. Ziegler 12-11-2017
ENGINEER DATE

GEORGE M. ZIEGLER
ILLINOIS REGISTRATION No. 062-045853
EXPIRATION DATE: 11-30-2019

INDEX OF SHEETS

LIST OF HIGHWAY STANDARDS

1	COVER SHEET	85	TRAFFIC SIGNAL MODIFICATION PLAN ORCHARD ROAD AND PRAIRIE STREET	122	TRAFFIC SIGNAL MODIFICATION PLAN ORCHARD ROAD AND OAK STREET	STD. No.	DESCRIPTION
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6	GENERAL NOTES	88	TRAFFIC SIGNAL REMOVAL PLAN ORCHARD ROAD AND COACH & SURREY LANE	125	TRAFFIC SIGNAL REMOVAL PLAN ORCHARD ROAD AND WHITE OAK DRIVE	424001-10	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
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63	TRAFFIC SIGNAL REMOVAL PLAN FABYAN PARKWAY AND BENT TREE DRIVE	106	SCHEDULE OF QUANTITIES ORCHARD ROAD AND HOME DEPOT ENTRANCE	143	CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE RANDALL ROAD AND WILSON STREET	830001-03	LIGHT POLE ALUMINUM MAST ARM
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69	CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE FABYAN PARKWAY AND WESTERN AVENUE	112	TRAFFIC SIGNAL MODIFICATION PLAN ORCHARD ROAD AND I-88 EB RAMP	149	TRAFFIC SIGNAL REMOVAL PLAN RANDALL ROAD AND MILL STREET	877006-06	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
70	SCHEDULE OF QUANTITIES FABYAN PARKWAY AND WESTERN AVENUE	113	CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ORCHARD ROAD AND I-88 EB RAMP	150	TRAFFIC SIGNAL MODIFICATION PLAN RANDALL ROAD AND MILL STREET	877011-09	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
71-72	TRAFFIC SIGNAL MODIFICATION PLAN FABYAN PARKWAY AND IL ROUTE 31	114	SCHEDULE OF QUANTITIES ORCHARD ROAD AND I-88 EB RAMP	151	CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE RANDALL ROAD AND MILL STREET	877012-06	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
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84	TRAFFIC SIGNAL REMOVAL PLAN ORCHARD ROAD AND PRAIRIE STREET						

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

CHRISTOPHER B. BURKE
ENGINEERING LTD.
3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(617) 823-5930

PROF. FILE
NO. _____

PLAN
NO. _____

DATE

BY

DATE

BY

DATE

BY

TS SHT NO. 2

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">INDEX OF SHEETS AND LIST OF HIGHWAY STANDARDS</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
001a.INDEX-120523		DRAWN - FPB	REVISED -		FAP 363	12-00424-00-SP	KANE	172	2
		CHECKED - GMZ	REVISED -		FAP 336				
		DATE - 12/8/2017	REVISED -		CONTRACT NO.		HSJP-0089(171)		
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
								FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE 0021
HSPF FUNDS (80% FEDERAL / 10% STATE / 10% LOCAL)

Main data table with columns for CODE NO., ITEM, UNIT, TOTAL, and various location names like Fabyan Parkway @ South Mill Creek Drive, Orchard Road @ Illinois Avenue, etc.

Vertical forms on the left side containing profile information, plan notes, and surveying status.

TS SHT NO. 4

SUMMARY OF QUANTITIES

PROFILE SURVEYED GRADES CHECKED BLM NOTED STRUCTURE NOTATIONS OK/NO
 NOTE BOOK NO. _____
 DATE _____
 BY _____
 TS SHT NO. 5

PLAN SURVEYED ALIGNED CHECKED RT. OF WAY CHECKED SADD FILE NAME
 NOTE BOOK NO. _____
 DATE _____
 BY _____
 ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 923-9500

CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE 0021																																								
				HSIP FUNDS (80% FEDERAL / 10% STATE / 10% LOCAL)																																								
				Fabyan Parkway @ South Mill Creek Drive	Fabyan Parkway @ Viking/Branson Drives	Fabyan Parkway @ Waimart Entrance	Fabyan Parkway @ Randall Road	Fabyan Parkway @ Bent Tree Drive	Fabyan Parkway @ Western Avenue	Fabyan Parkway @ IL 31 (Batavia Avenue)	Fabyan Parkway @ IL 25 (Crissey / Washington Avenue)	Fabyan Parkway @ Raddant Road	Orchard Road @ Jericho Road	Orchard Road @ Prairie Street	Orchard Road @ Coach & Surrey Lane	Orchard Road @ Galena Boulevard	Orchard Road @ Illinois Avenue	Orchard Rd @ West Indian Trail	Orchard Road @ Commercial (Home Depot) Entrance	Orchard Road @ Sullivan Road	Orchard Road @ I-88 EB Ramps	Orchard Road @ I-88 WB Ramps	Orchard Road @ Orchard Gateway Boulevard	Orchard Road @ Oak Street	Orchard Road @ White Oak Drive	Orchard Road @ Comiskey Avenue	Randall Road @ Mosseheart Road	Randall Road @ Main Street	Randall Road @ Wilson Street	Randall Road @ McKee Street	Randall Road @ Mill Street	Hughes Road (Roadway)	Fabyan Parkway (Roadway)	Orchard Road (Roadway)	Randall Road (Roadway)									
87900200	DRILL EXISTING HANDHOLE	EACH	334	4	12	13		12	13			12	14	14	12		19	15	5	12	8	90	1		16	10	12	10	10	9	10						1							
87900205	DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	10	10																																								
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	164	3	6	8		9	6			8	8	8	6		9	8	6	8	7	9			8	6	9	9	7	7	9													
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	53	1	2	3		6	5			2	1	2	3		1	2	3	1	4	6			2	3	4	1		1														
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	64	4	4	2		2	4			4	2	4	1		4	4	1	4		1			4	1	2	4	4	4	4													
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	70	4	4	2		2	4			4	6	4	1		4	4	1	4	2	1			4	1	2	4	4	4	4													
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	23			3		2					3					2	1	2	1					1	2		3	3														
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	23			3		2					1					2	1	2	3					1	2		3	3														
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	76	8	2	4		4	4			2	10	6	4		8	6	2	6			2		6	2																		
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	205	10	10	13		13	13			10	6	10	5		10	14	7	13	9	11			10	7		8	9	10	7													
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	287	6	6	13	22	8	6	10	10	8	15	8	6	20	8	8	6	8	8	6	10	18	8	6	21	10	10	12	10													
88800100	PEDESTRIAN PUSH-BUTTON	EACH	84	8	2	4		4	4			2	9	6	4	9	8	6	2	6			2		6	2																		
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	14																									4	3	5	2													
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	8																									4	2	1	1													
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	33	2	2	3		1	2			2	2		2		3								2	2	2	2	2	2	2	2												
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	157205	8527	5967	9065		5199	8660	6728		5500	8288	6587	3814		9764	8205	2267	8162	3048	3989			6825	6335	10608	6185	7941	7608	7939													
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	22	1	1	1		1	1			1	1	1	1		1	1	1	1	1	1			1	1	1	1	1	1	1	1												
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	110	6	5	5		4	6		1	4	7	5	7		5	6	3	4	5	4			6	5	3	7	4	4	4													
X0322765	RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	16	1	1	1		1	1			1	1	1	1		1	1	1	1					1	1	1																	
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	6093	290	429	470		126	349			727	383		376		453									334	591	266	304	352	298	339												
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	11066	783	270	405		400	1125			180	900	465	285	500	350	398	135	430					660	175		460	1035	1105	995													
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	1058		194								241																															
X1400145	RADAR SPEED SIGN	EACH	10																																									
X8040400	ELECTRIC UTILITY SERVICE CONNECTION	EACH	2																																									
X8210405	LUMINAIRE SHIELD	EACH	4												4																													
X8730571	ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	602						113			198																196	96															
X8730800	ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	602						113			198																196	96															
X8760055	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1																		1																							
X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	23	1	1	1		1	1			1	1	1	1		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1												
XX007250	RELOCATE EXISTING PTZ CAMERA	EACH	11		1			1	1			1	1	1					1									1	1															
Z0013798	CONSTRUCTION LAYOUT	LSUM	1																																									
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	2595.7	102.8	102.8	102.8		102.8	102.8	51.4	51.4	102.8	102.8	102.8	77.1		102.8	102.8	77.1	102.8	77.1	77.1	51.4	51.4	102.8	77.1	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8
Z0033024	MAINTAIN EXISTING LIGHTING SYSTEM	LSUM	2										1																															
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2																	1			1																					
Z0076600	TRAINEES	HOUR	1000																																									
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000																																									

Construction code for TRAINEES AND TRAINEES TRAINING PROGRAM pay items is: 0042

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
001b_SUM3-120523		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
VARIOUS TRAFFIC SIGNALS
ALONG FABYAN PARKWAY AND ORCHARD ROAD**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363	12-00424-00-SP	KANE	172	5
FAP 336				
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

GENERAL NOTES

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE LATEST REVISION; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", (IMUTCD); "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JUNE 2014 SEVENTH EDITION, THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST IDOT HIGHWAY STANDARD.
CODES OF THE IEPA TITLE 35, AND O.S.H.A. SHALL BE ADHERED TO FOR THE CONSTRUCTION OF THIS PROJECT.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS.

ALL REQUIRED PERMITS FROM THE PROPER GOVERNING AGENCY SHALL BE OBTAINED FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHEETING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE AGENCY, AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC.

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITY FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER SERVICE LINES AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE COUNTY DOES NOT GUARANTEE THEIR ACCURACY. THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 8-1-1 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE ENGINEER, ITS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

WATER, STORM SEWER AND SANITARY SEWER

WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS.

MISCELLANEOUS

ACCESS: THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR PERIODS OF SHORT DURATION. THE COST TO PROVIDE ACCESS SHALL BE PAID FOR AND INCLUDED IN THE ITEM TEMPORARY ACCESS (ROAD) OR TEMPORARY ACCESS (PRIVATE ENTRANCE).

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

ALL SAWCUTTING SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL. ANY ITEMS OF WORK REMOVED PRIOR TO SAWCUTTING WILL NOT BE MEASURED FOR PAYMENT.

DETECTABLE WARNINGS FOR THE HANDICAPPED SHALL BE INSTALLED AT INTERSECTING STREETS AS SHOWN ON THE PLANS.

PAVEMENT GRADES: THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.

RELOCATING EXISTING SIGNS: EXISTING SIGNS WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED AND REINSTALLED UPON COMPLETION OF CONFLICTING IMPROVEMENTS IN ACCORDANCE WITH ARTICLE 107.25 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", STOP SIGNS, SPEED LIMIT SIGNS, AND STREET NAME SIGNS SHALL BE UP AND VISIBLE AT ALL TIMES.

PROPOSED CONCRETE CURB AND GUTTER SHALL BE TRANSITIONED TO EXISTING CURB AND GUTTER OVER A LENGTH OF 5 FEET. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, SPECIAL.

CONTRACTOR SHALL NOT PLACE SOD UNTIL THE TEMPERATURE IS 80 ° OR LESS AND THE FORECAST FOR THE NEXT 7 DAYS SHOWS TEMPERATURES OF 80 ° OR LESS. IF ALL OTHER PAY ITEMS ARE COMPLETED, THE CONTRACTOR WILL NOT BE CHARGED WORKING DAYS FOR DELAYS IN PARKWAY RESTORATION DUE TO TEMPERATURE.

NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN INSTALLED.

AT NO TIME SHALL LESS THAN HALF OF THE STREET BE AVAILABLE FOR PARKING.

VANDALISM - SPECIAL ATTENTION IS CALLED TO THE SPECIAL PROVISION FOR "INSPECTION" AS WELL AS ARTICLE 107.30 OF THE "STANDARD SPECIFICATIONS." ANY DEFACED WORK AS DETERMINED AND DIRECTED BY THE COUNTY SHALL BE CORRECTED OR REPLACED TO THE SATISFACTION OF THE ENGINEER BY THE CONTRACTOR AT HIS SOLE EXPENSE PRIOR TO FINAL PAYMENT. KANE COUNTY WILL COOPERATE WITH THE CONTRACTOR TO MINIMIZE VANDALISM, BUT THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE TO CORRECT ANY DAMAGE. THE COUNTY WILL NOT BE RESPONSIBLE FOR THE SECURITY OF THE WORK SITE IN THIS REGARD, OTHER THAN NORMAL PATROLLING AND RESPONSE TO EMERGENCIES. THE COST OF ADDITIONAL SECURITY REQUIRED TO MEET THIS SPECIAL PROVISION SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

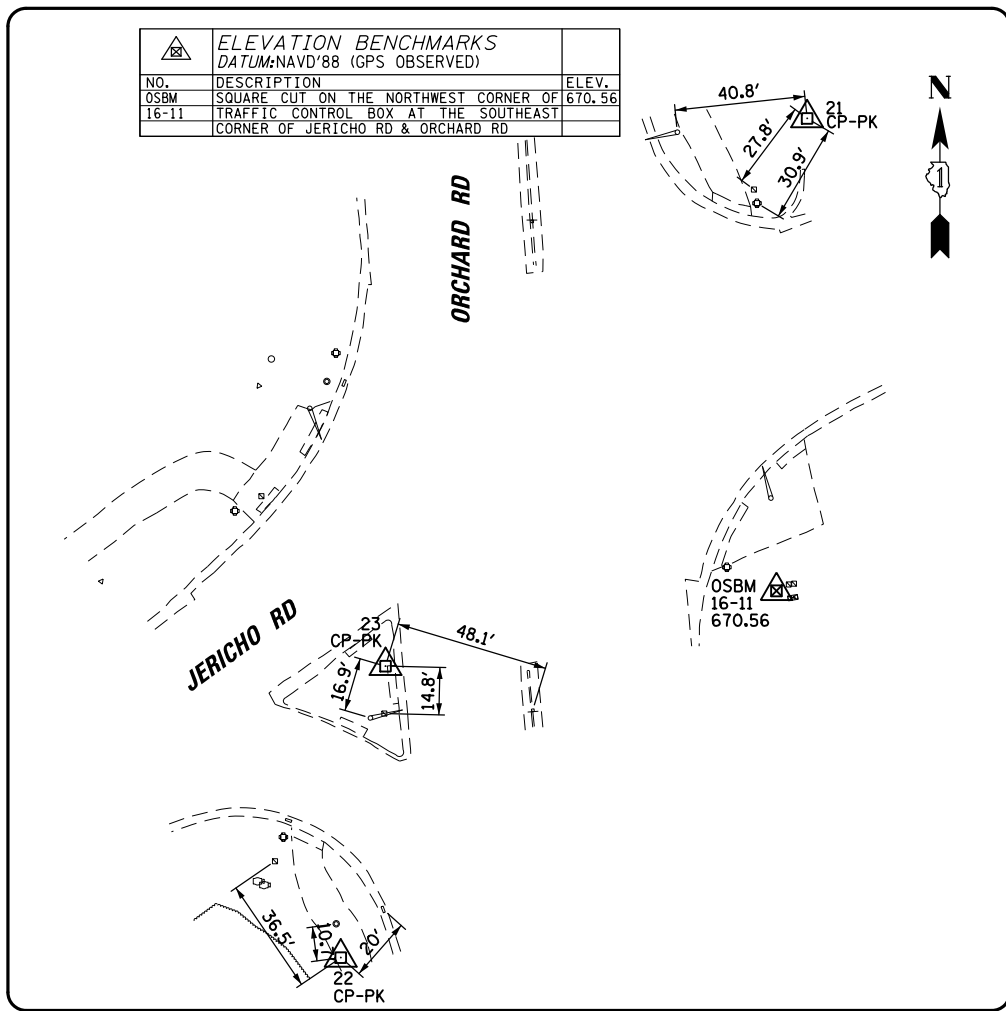
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	GRADES CHECKED	
NOTE BOOK	BY	
	NO.	
PLAN	SURVEYED	DATE
	ALIGNED	
NOTE BOOK	BY	
	NO.	

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(617) 623-5930

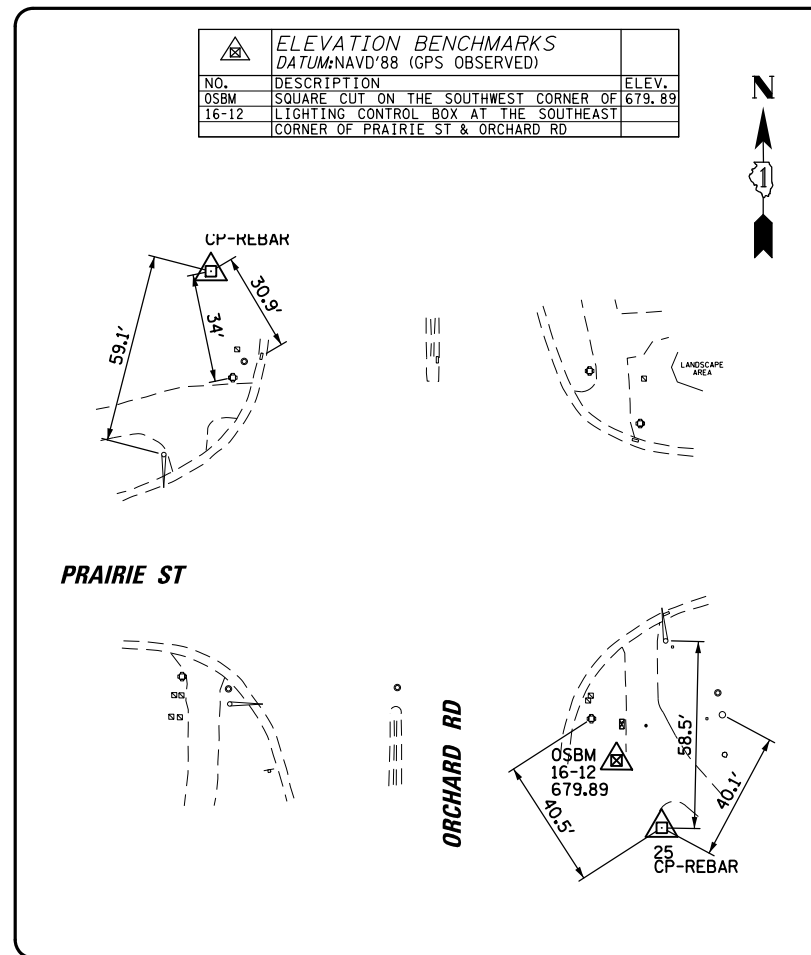


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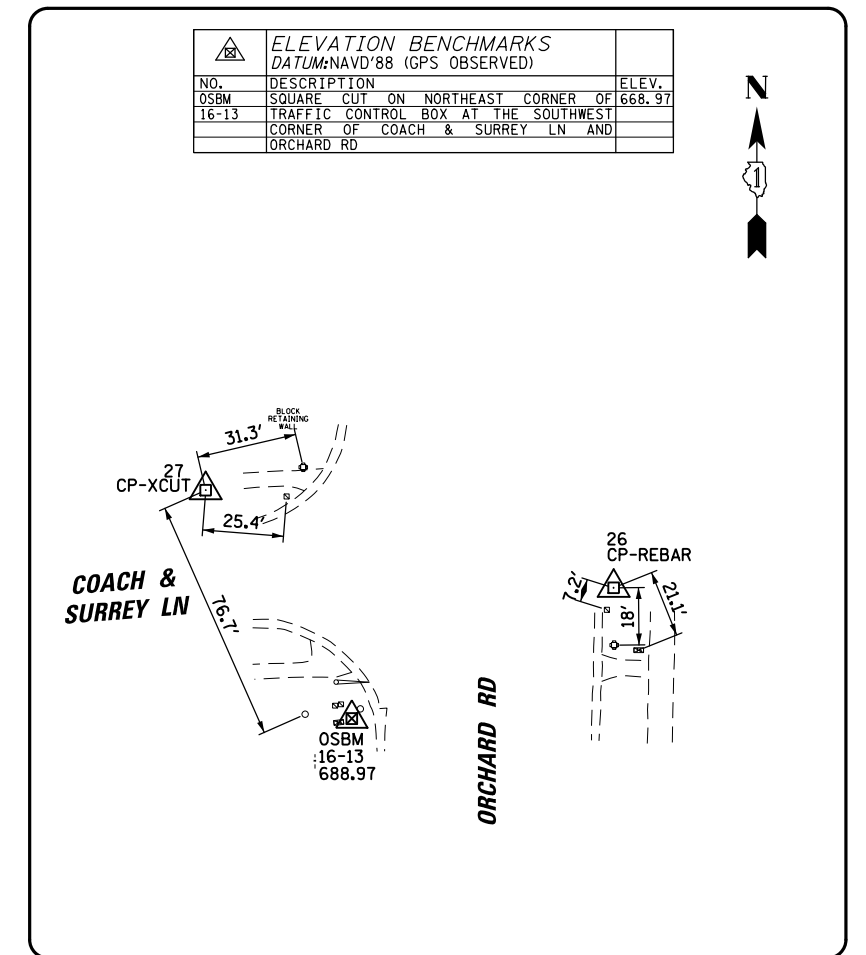
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		CHECKED - GMZ	REVISED -			CONTRACT NO.					
		DATE - 12/8/2017	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.



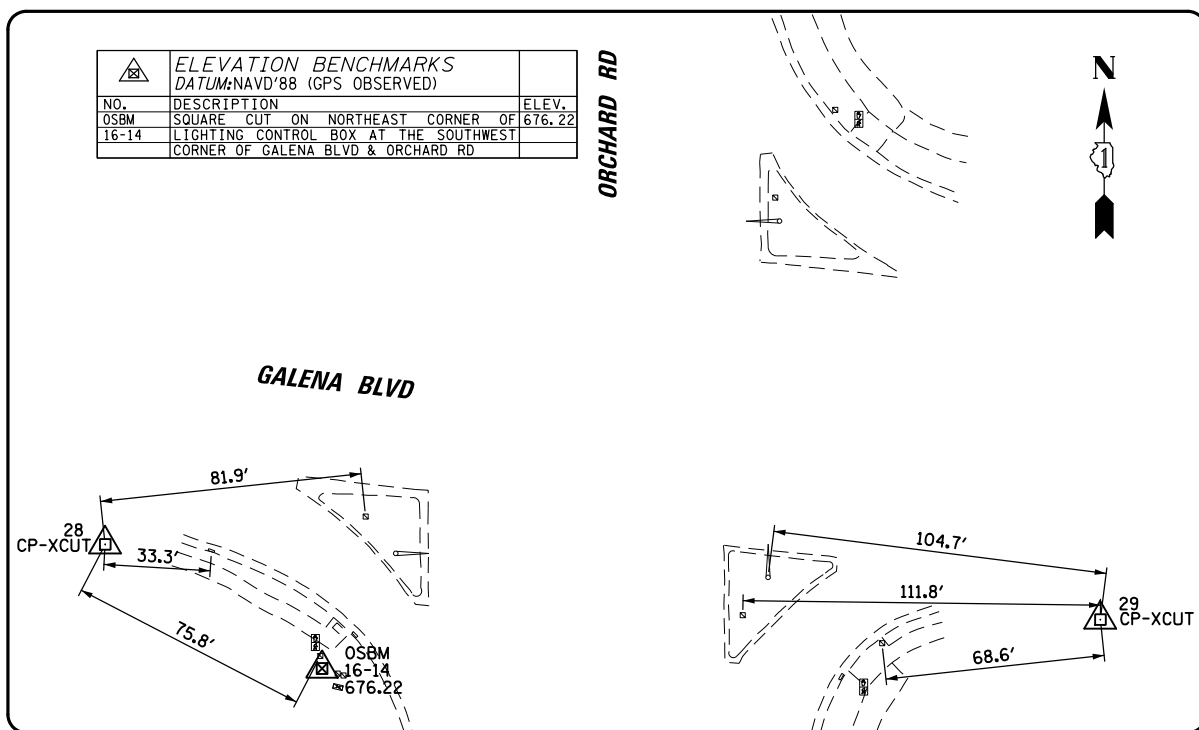
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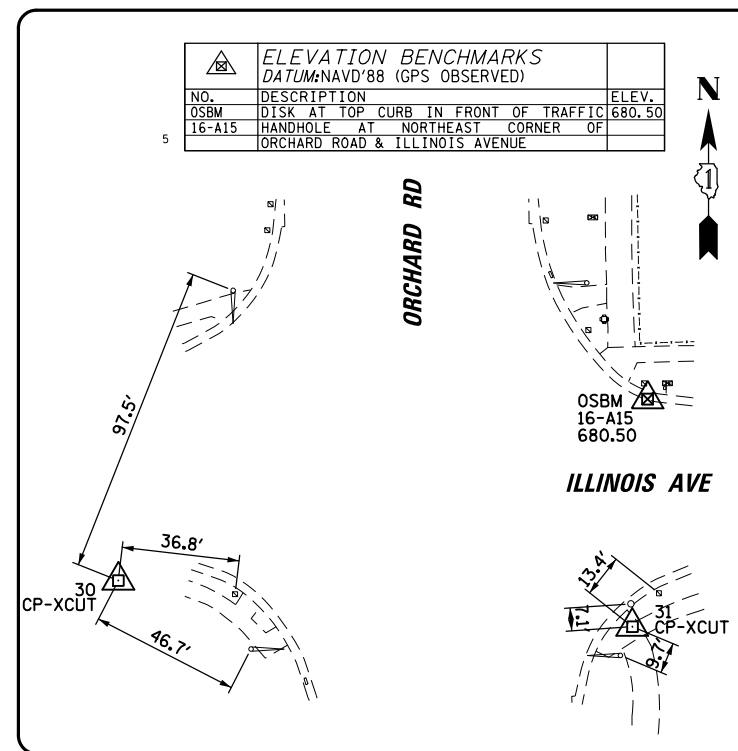
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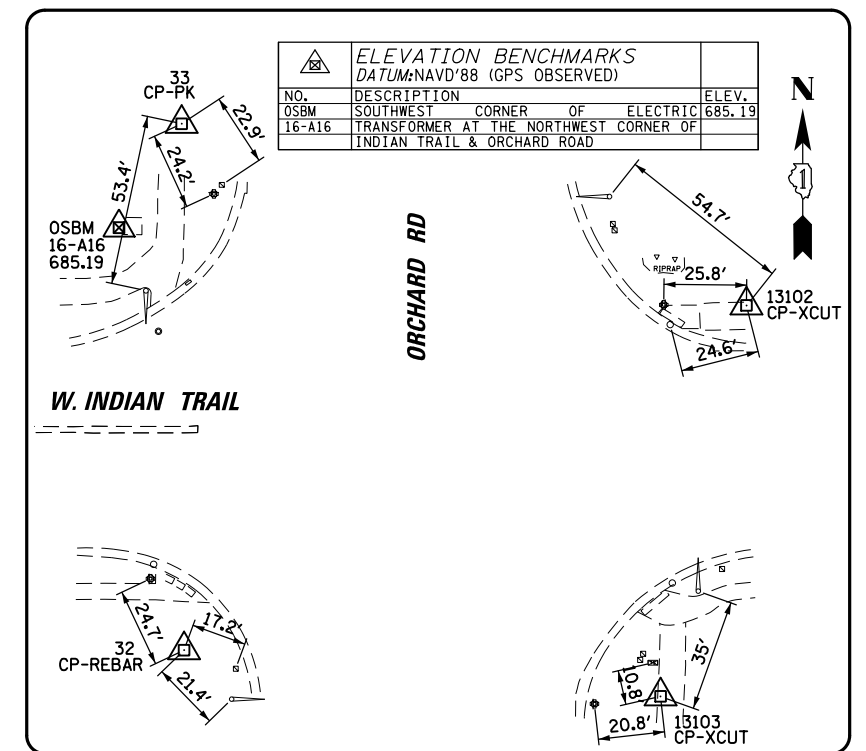
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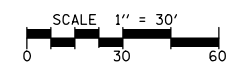
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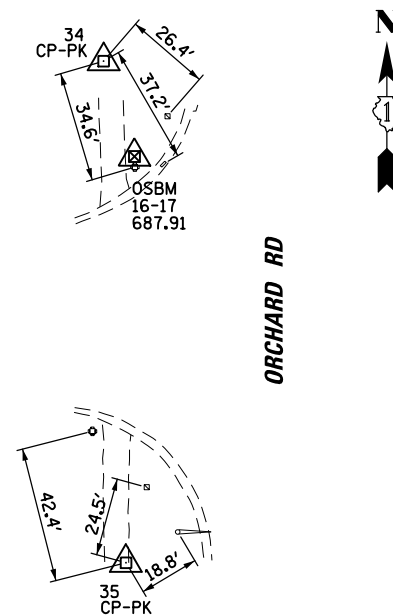
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	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KANE COUNTY HSIP ORCHARD ROAD TIES AND BENCHMARKS			
SCALE: 60'	SHEET NO. 7 OF 172 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	7
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

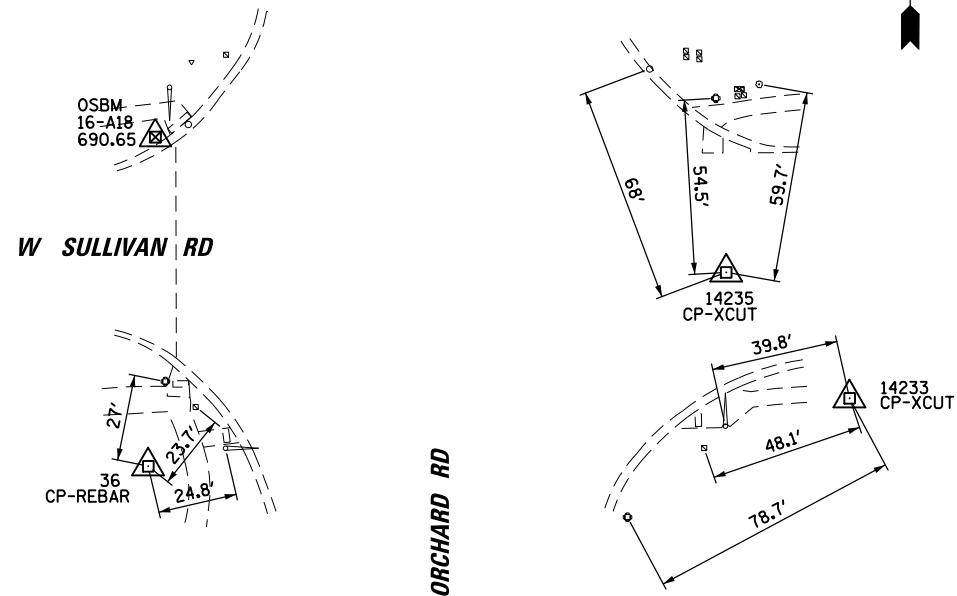
ELEVATION BENCHMARKS DATUM:NAVD'88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM 16-17	SQUARE CUT ON THREE STYLE LIGHT POLE AT THE NORTHWEST CORNER OF HOME DEPOT ENTRANCE & ORCHARD ROAD	687.91



BM 16-A17

N=1863971.79, E=972684.73

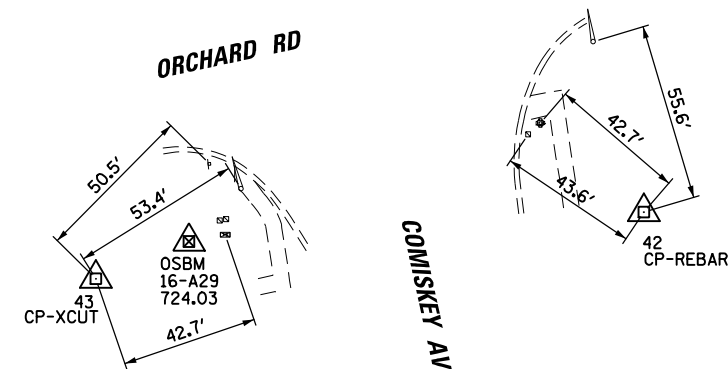
ELEVATION BENCHMARKS DATUM:NAVD'88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM 16-A18	NORTHWEST TAG BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF ORCHARD ROAD & SULLIVAN ROAD	690.65



BM 16-A18

N=1865086.18, E=972665.77

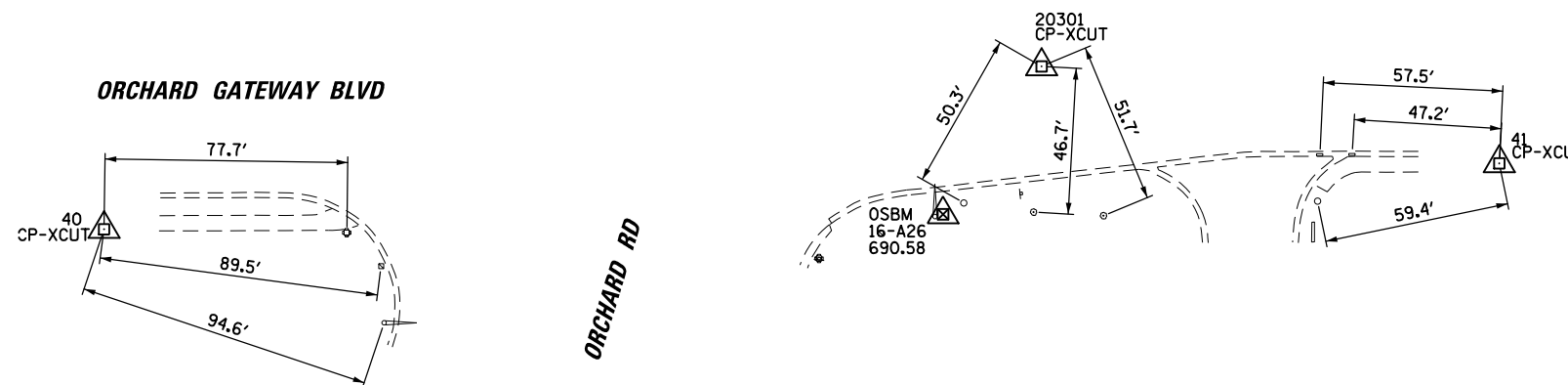
ELEVATION BENCHMARKS DATUM:NAVD'88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM 16-A29	SQUARE CUT SET ON SOUTHWEST CORNER OF CONCRETE FOUNDATION OF KANE COUNTY DIVISION OF TRANSPORTATION LIGHTING CONTROLLER PANEL BOX LOCATED AT THE SOUTHWEST CORNER OF COMISKEY AVENUE & ORCHARD ROAD	724.03



BM 16-A29

N=1875909.46, E=979090.95

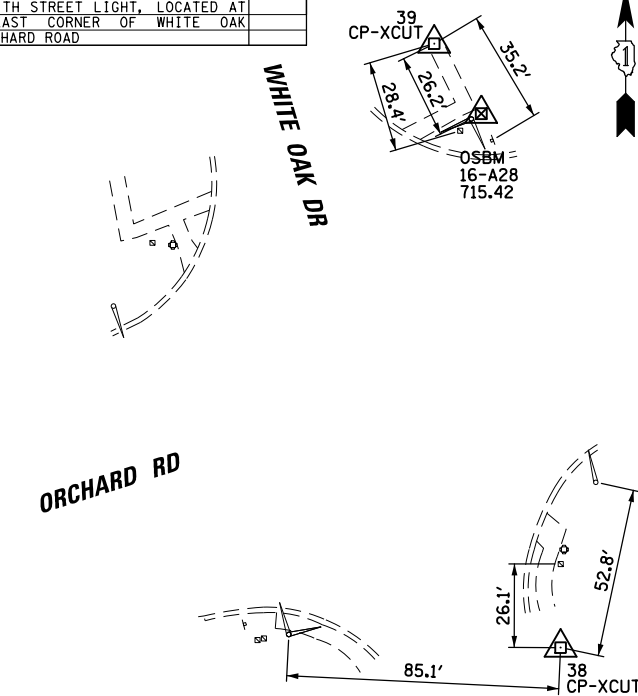
ELEVATION BENCHMARKS DATUM:NAVD'88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM 16-A26	SQUARE CUT SET ON CONC. BASE OF TRAFFIC SIGNAL MAST ARM WITH STREET LIGHT LOCATED AT THE SOUTHEAST CORNER OF ORCHARD ROAD & ORCHARD GATEWAY BLVD	690.58



BM 16-A26

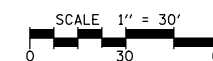
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ELEVATION BENCHMARKS DATUM:NAVD'88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM 16-A28	SQUARE CUT SET ON WEST EDGE OF CONCRETE FOUNDATION OF TRAFFIC SIGNAL MAST ARM WITH STREET LIGHT, LOCATED AT THE NORTHEAST CORNER OF WHITE OAK DRIVE & ORCHARD ROAD	715.42



BM 16-A28

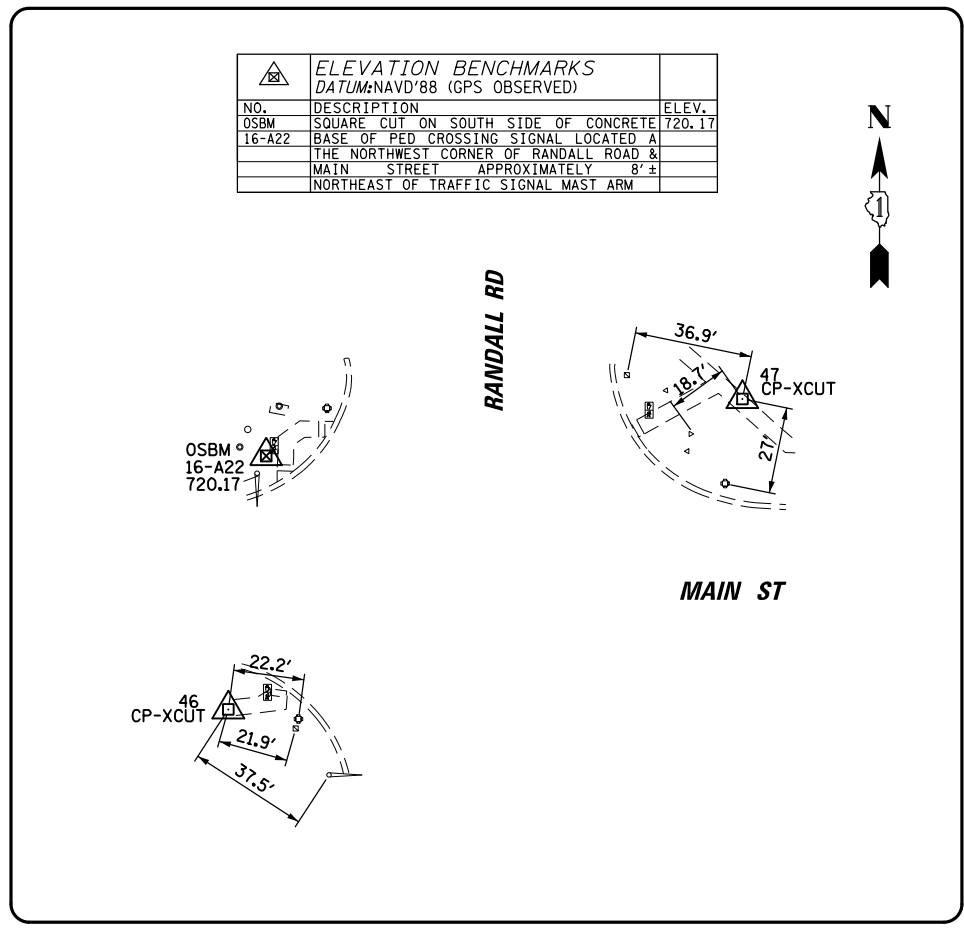
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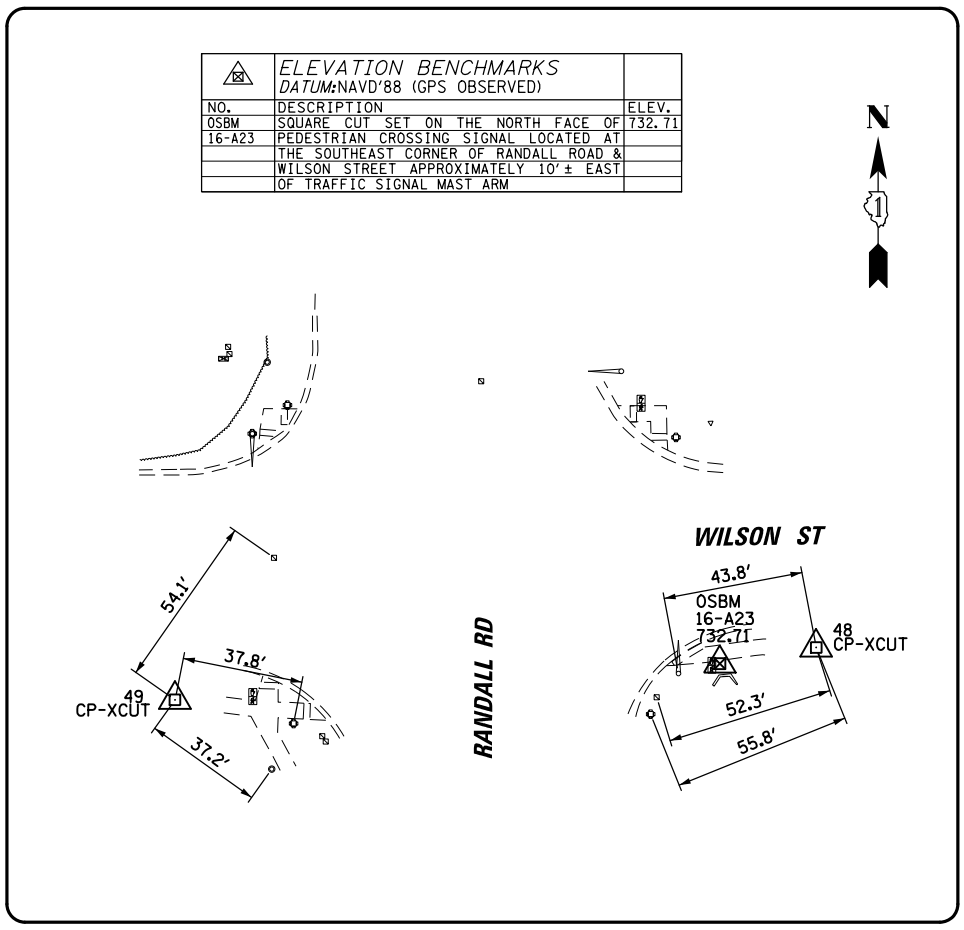
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PLOT SCALE = 60'	PLOT DATE = 12/8/2017	DRAWN - JEH	REVISED -
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		DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

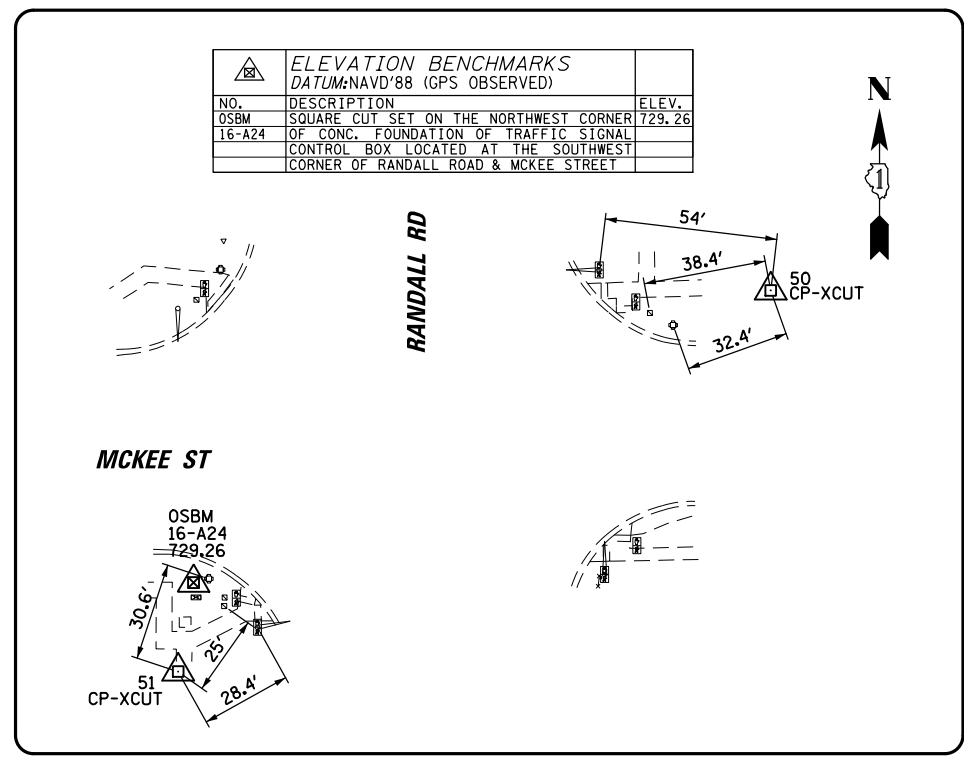
SCALE: 60'	SHEET NO. 8 OF 172 SHEETS	STA. TO STA.	F.A.U. RTE. VARIOUS	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 8
KANE COUNTY HSIP ORCHARD ROAD TIES AND BENCHMARKS						CONTRACT NO. ILLINOIS FED. AID PROJECT	



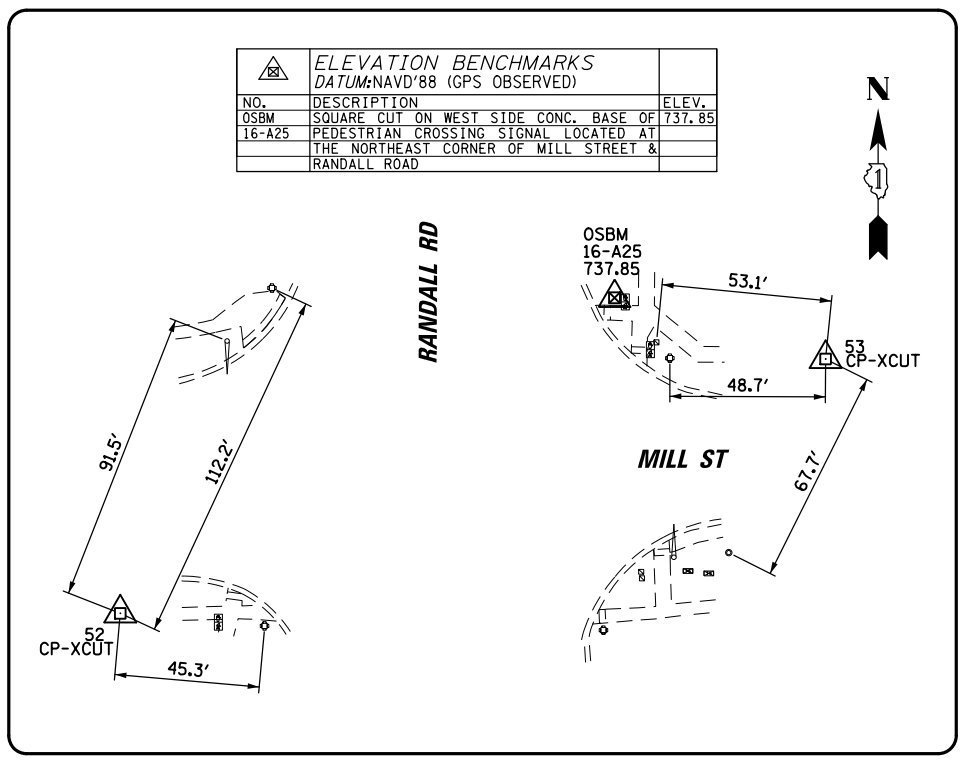
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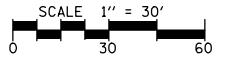
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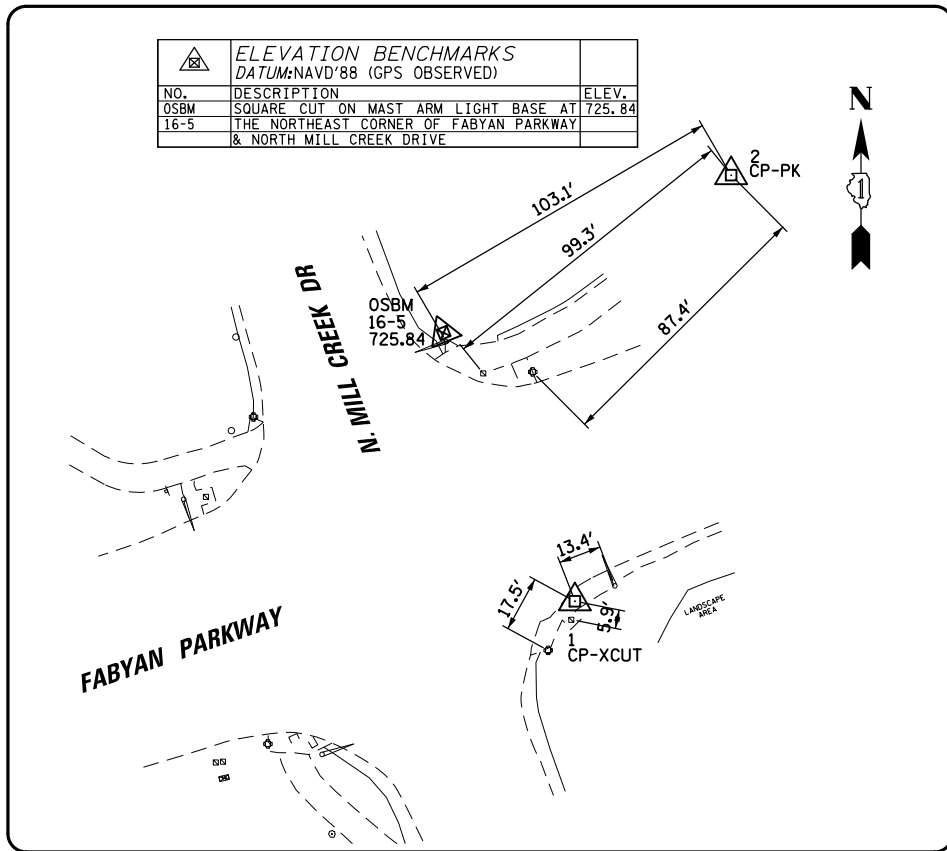
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

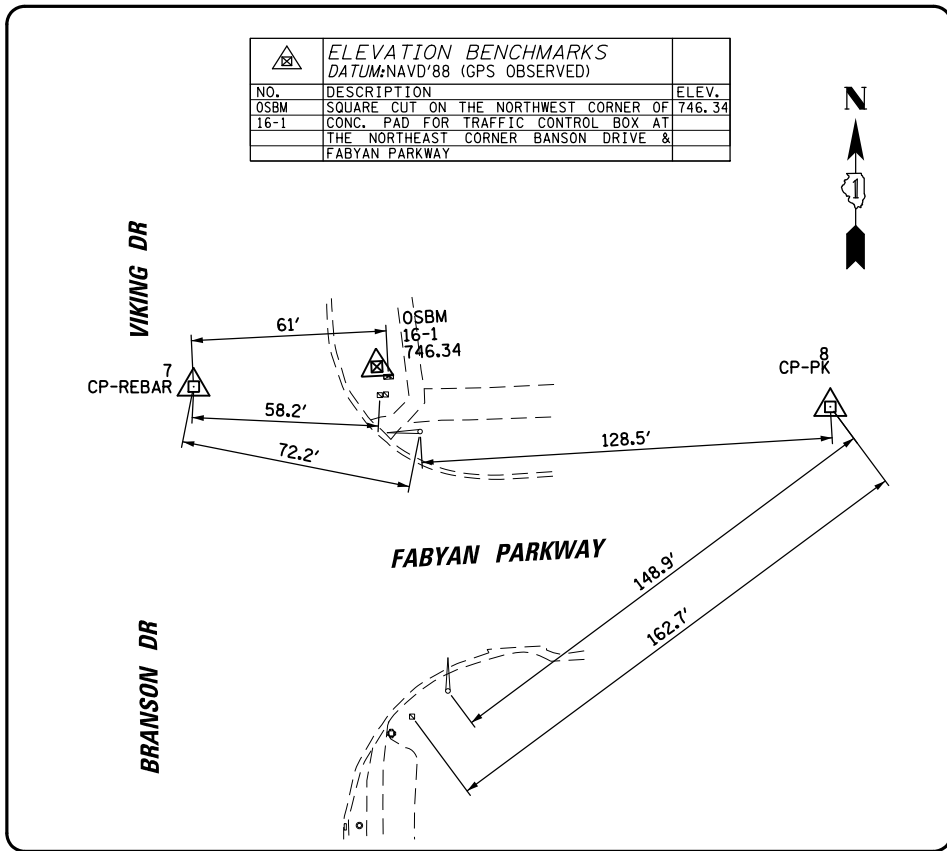
**KANE COUNTY HSIP
RANDALL ROAD
TIES AND BENCHMARKS**

SCALE: 60' SHEET NO. 9 OF 172 SHEETS STA. TO STA.

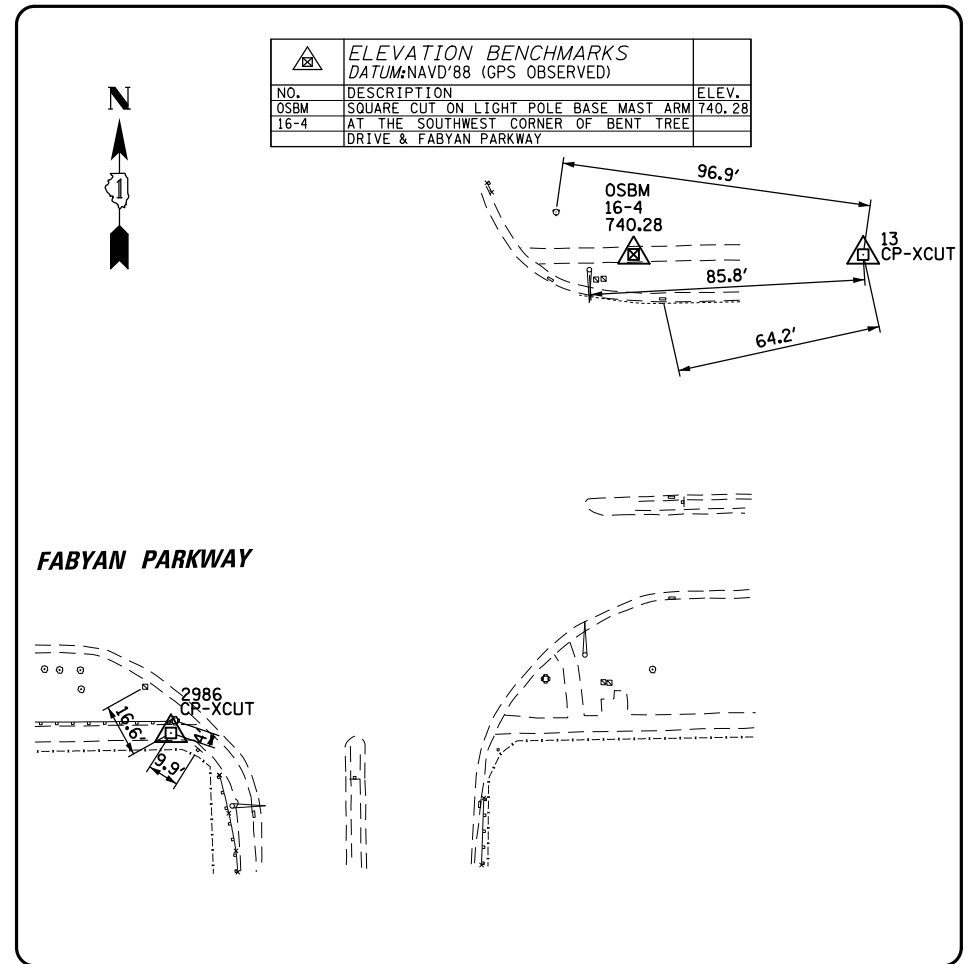
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VARIOUS	12-00424-00-SP	KANE	172	9
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



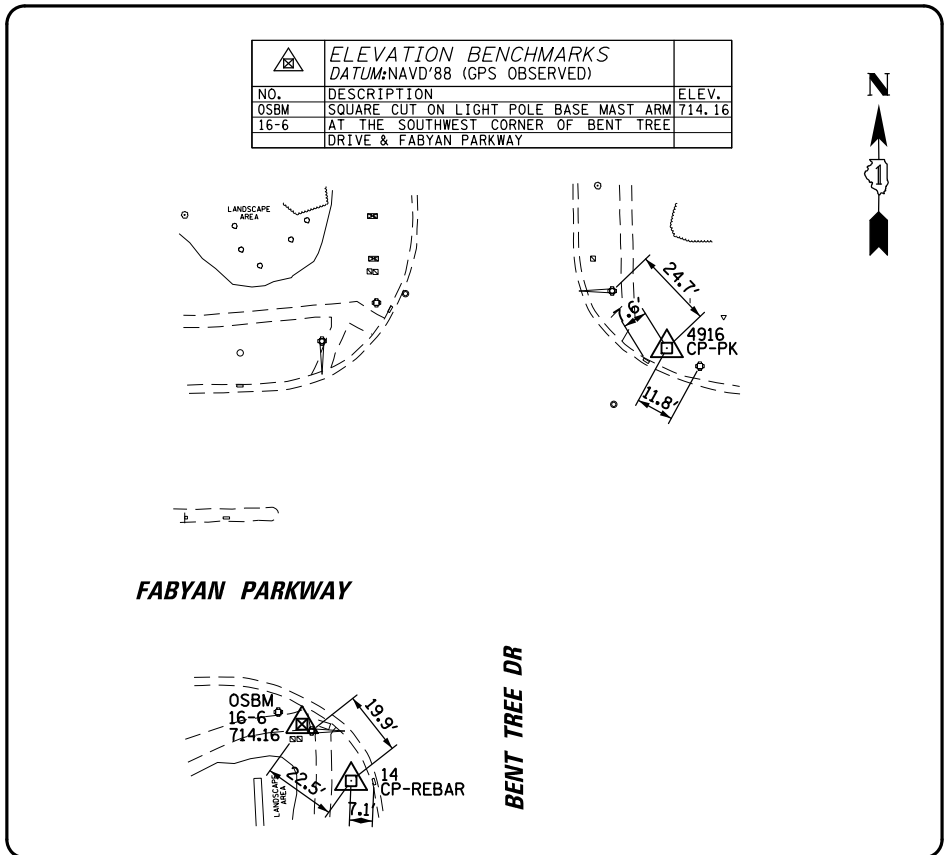
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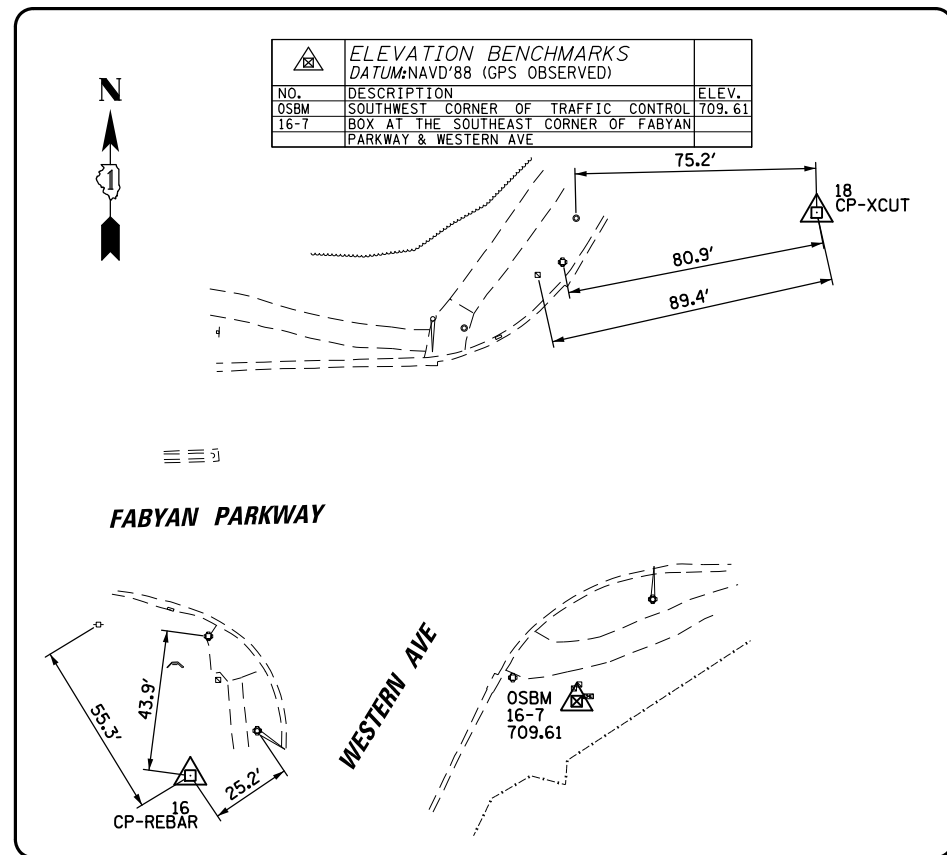
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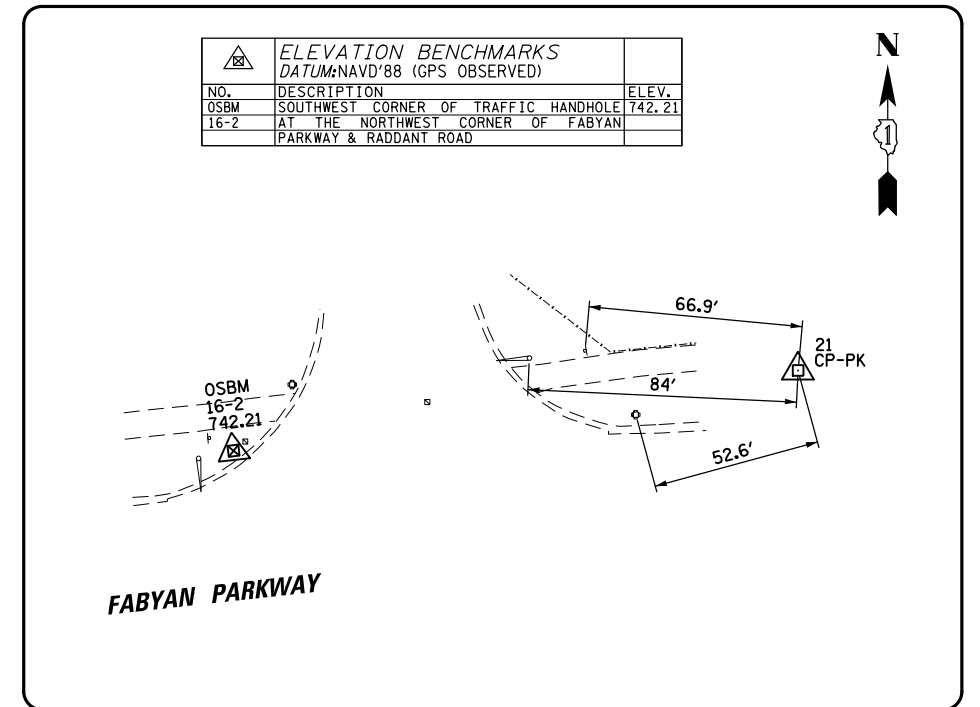
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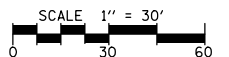
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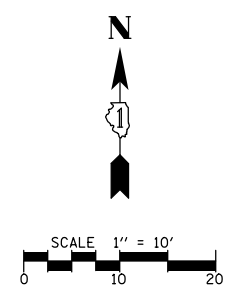
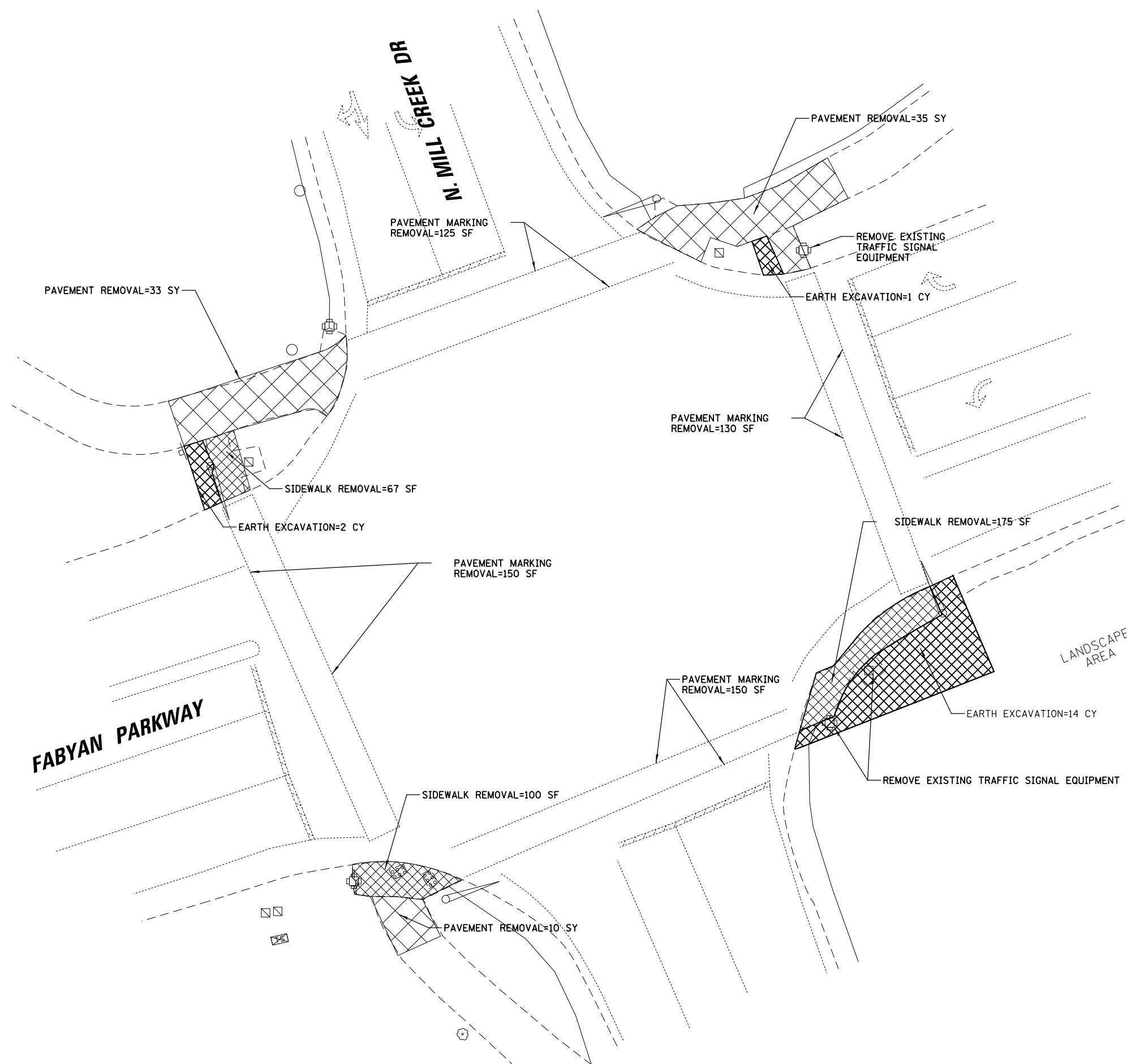
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	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KANE COUNTY HSIP
FABYAN PARKWAY
TIES AND BENCHMARKS

SCALE: 60' SHEET NO. 10 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	10
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



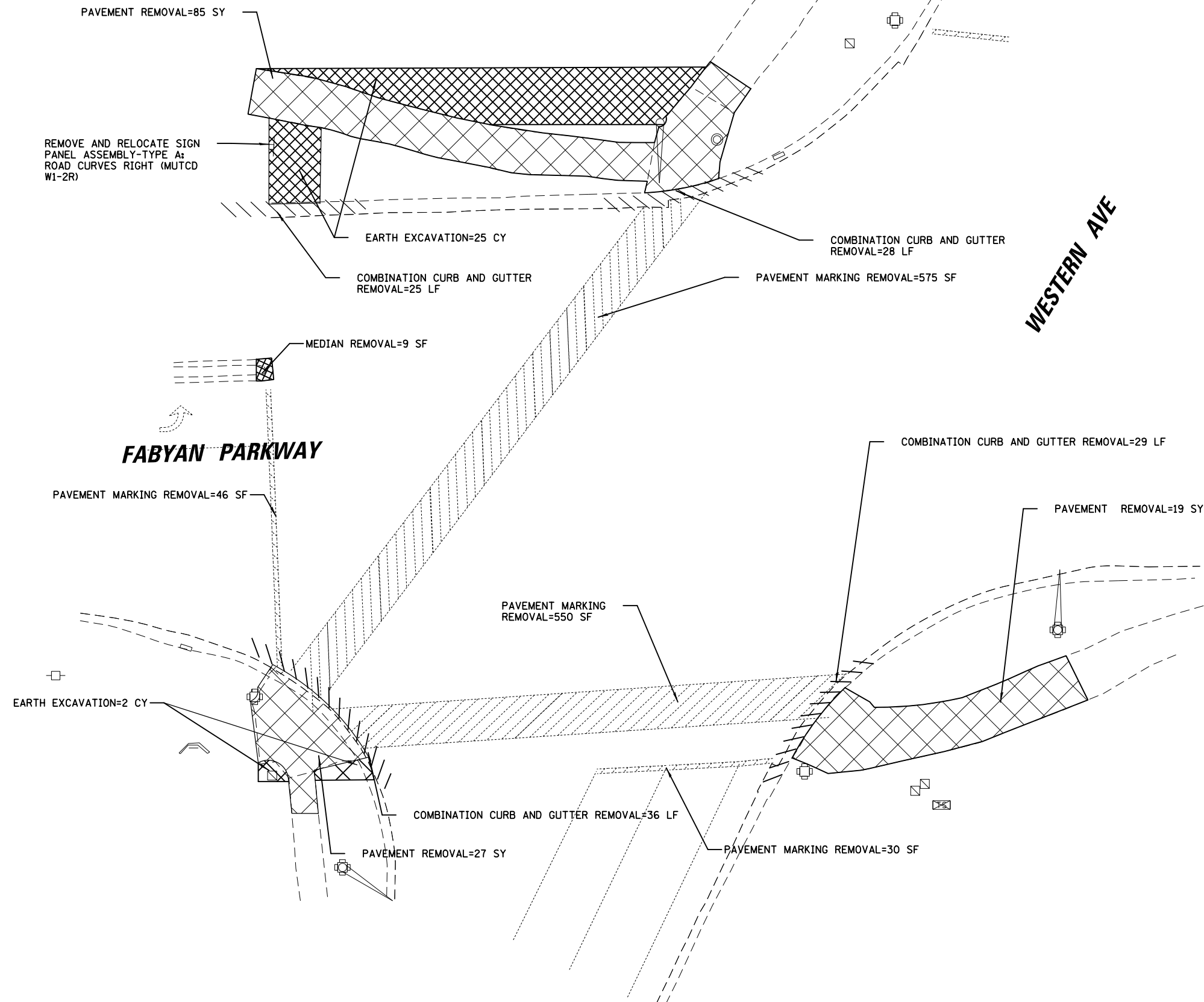
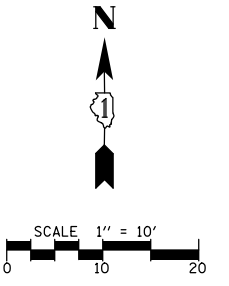
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PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY HSIP
FABYAN PARKWAY AND N. MILL CREEK DRIVE
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 20' SHEET NO. 11 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	11
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



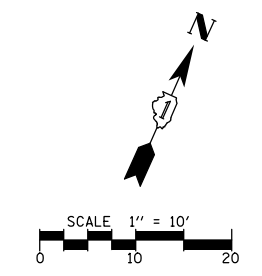
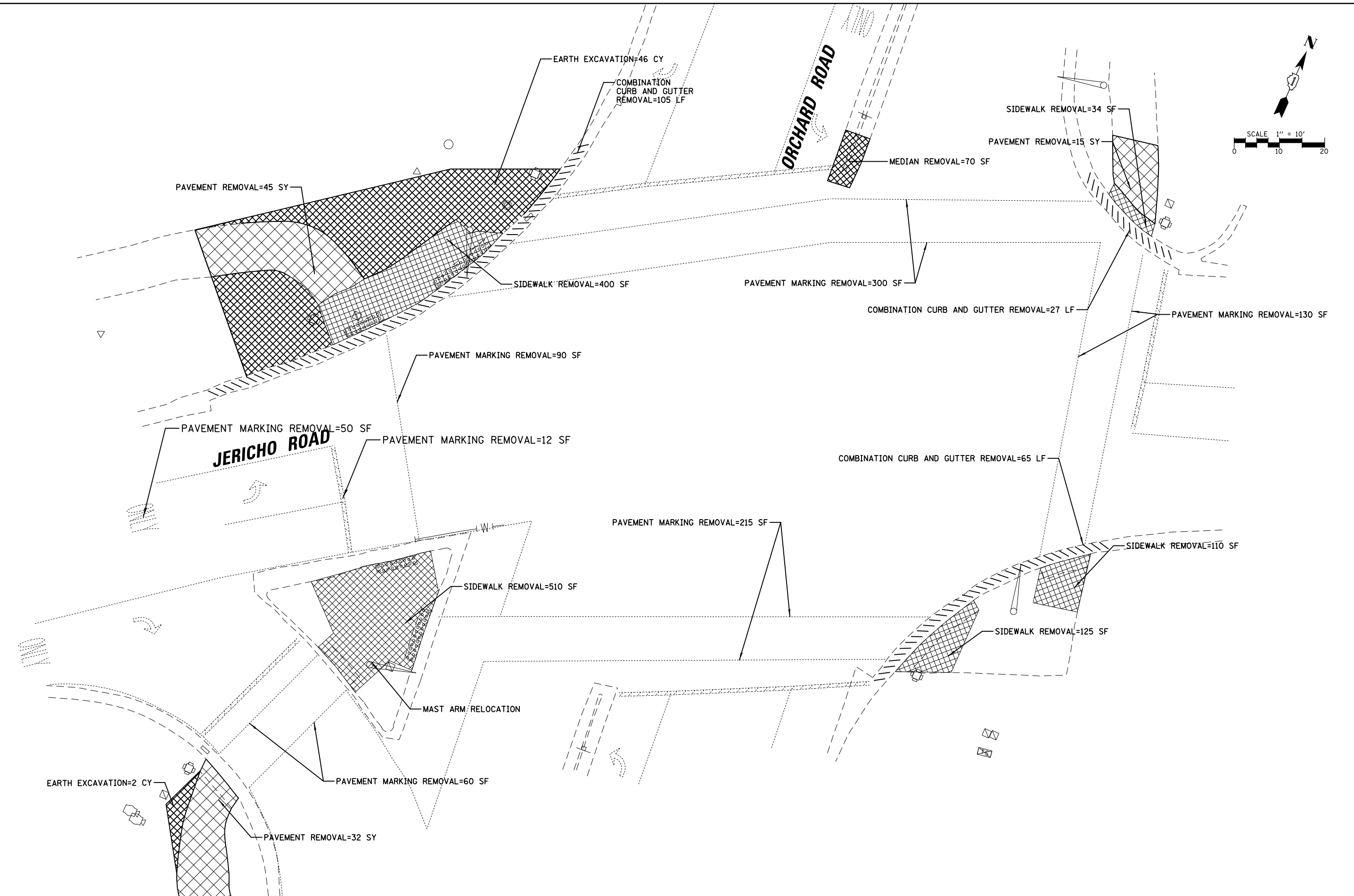
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PLOT SCALE = 20'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY HSIP
FABYAN PARKWAY AND WESTERN AVENUE
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 20' SHEET NO. 12 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	12
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



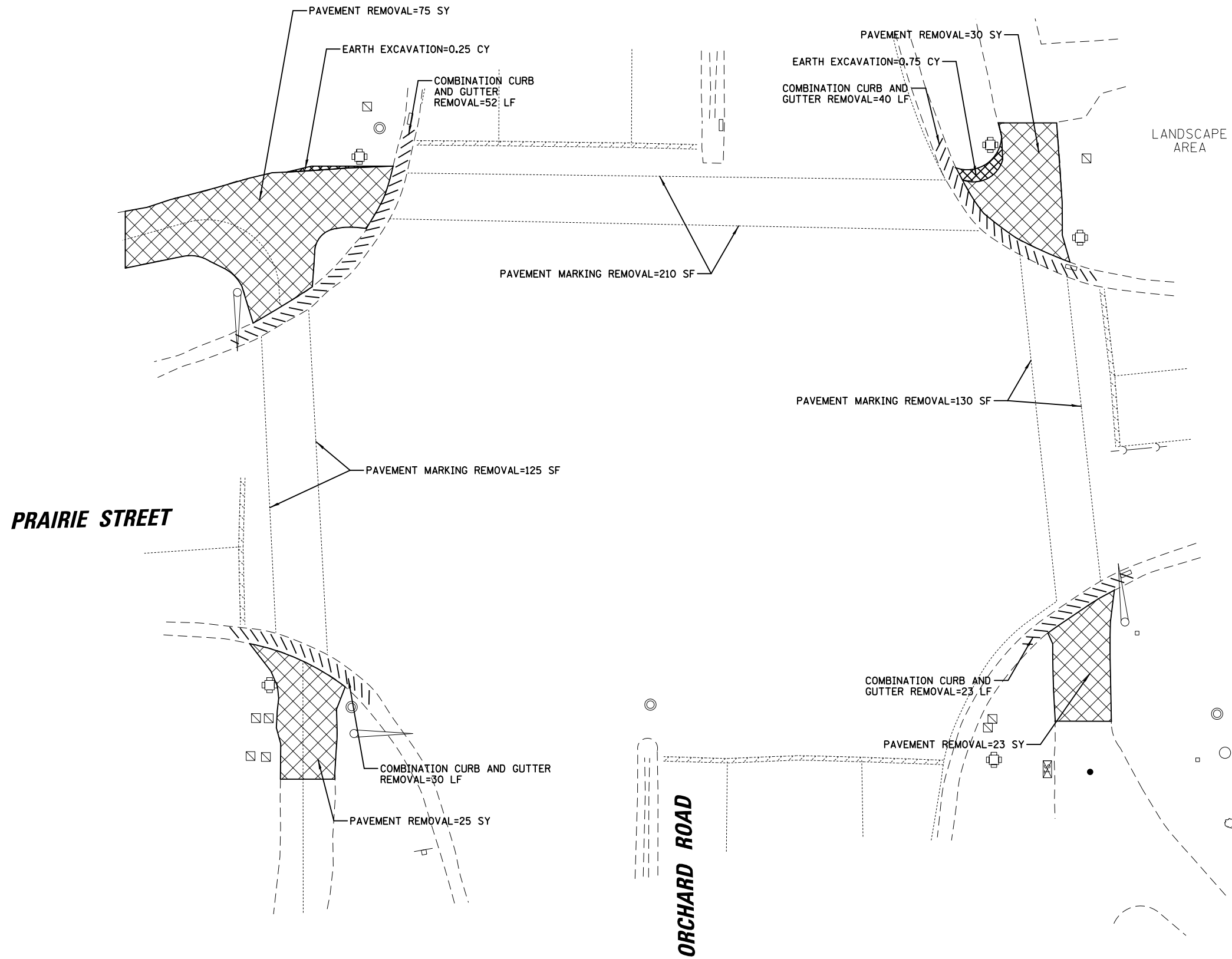
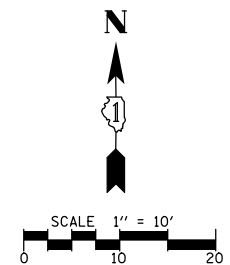
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PLOT SCALE = 28'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY HSIP
ORCHARD ROAD AND JERICO ROAD
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 28' SHEET NO. 13 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	13
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



PRAIRIE STREET

ORCHARD ROAD

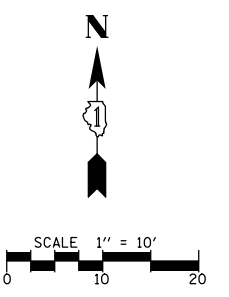
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	PLOT SCALE = 20'	CHECKED - LMF	REVISED -
	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY HSIP
ORCHARD ROAD AND PRAIRIE STREET
EXISTING CONDITIONS AND REMOVAL PLAN**

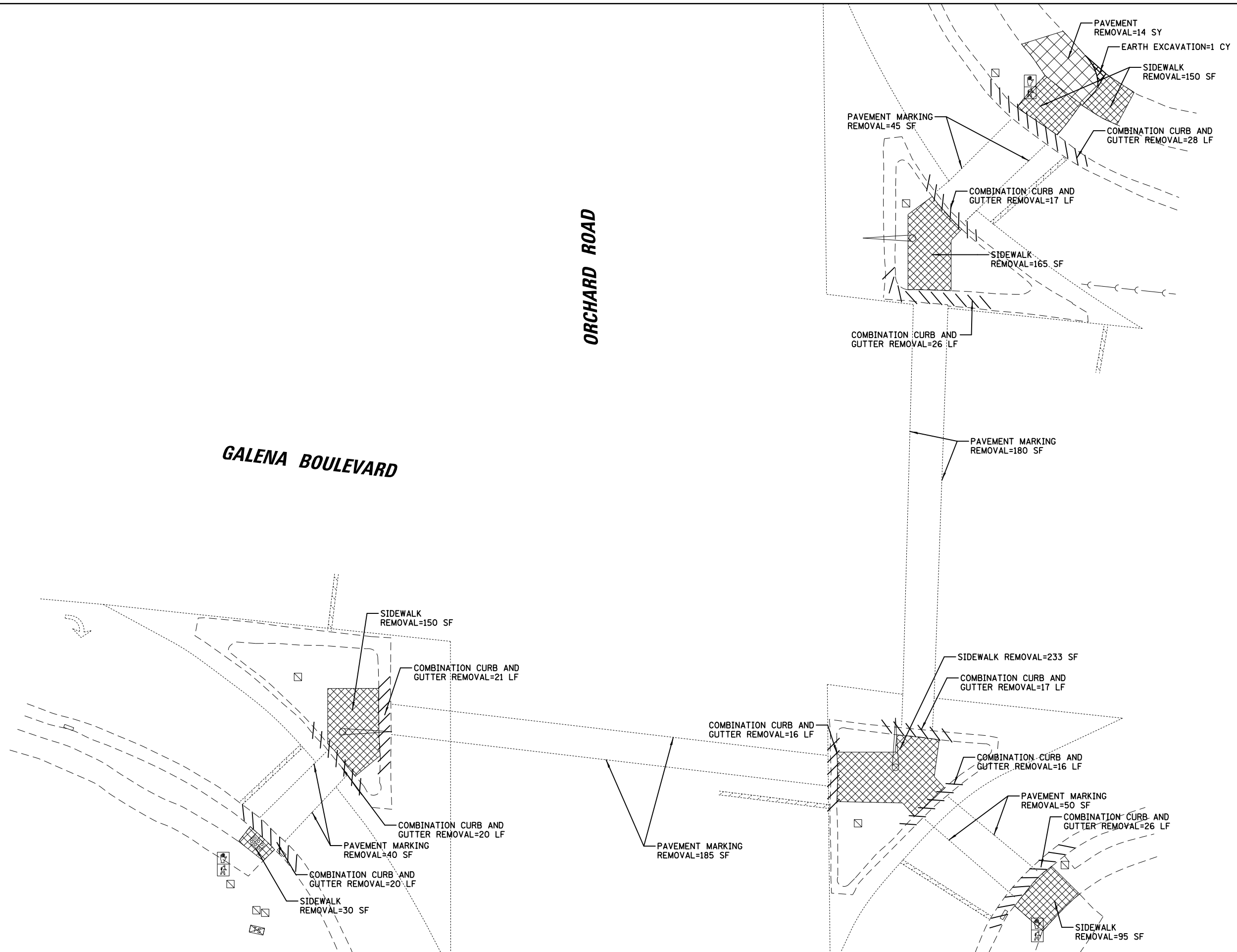
SCALE: 20' SHEET NO. 14 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	14
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



ORCHARD ROAD

GALENA BOULEVARD



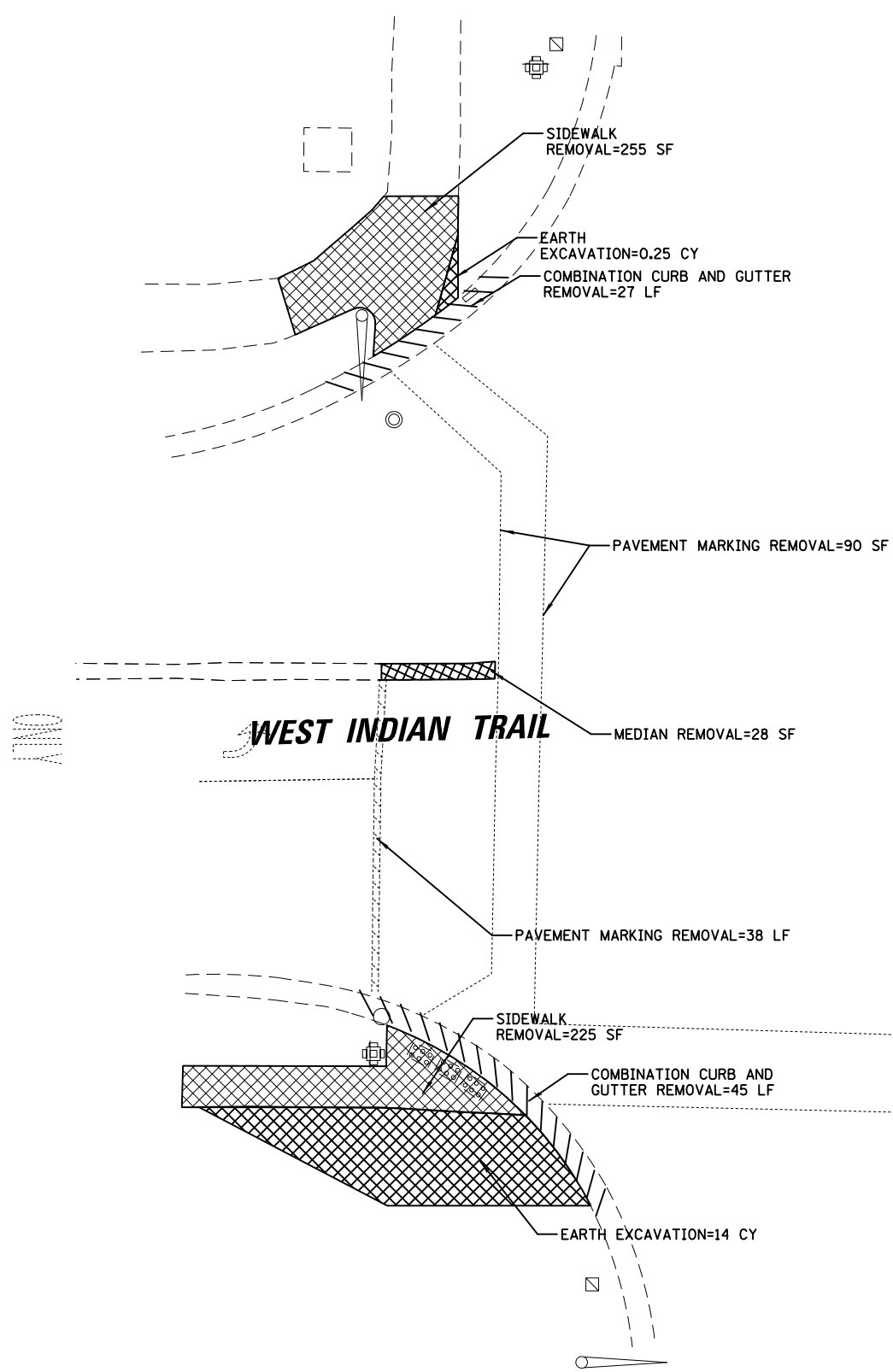
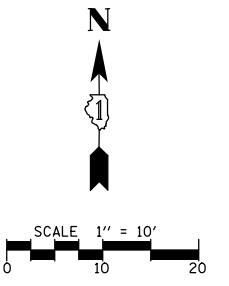
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	PLOT SCALE = 20'	CHECKED - LMF	REVISED -
	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

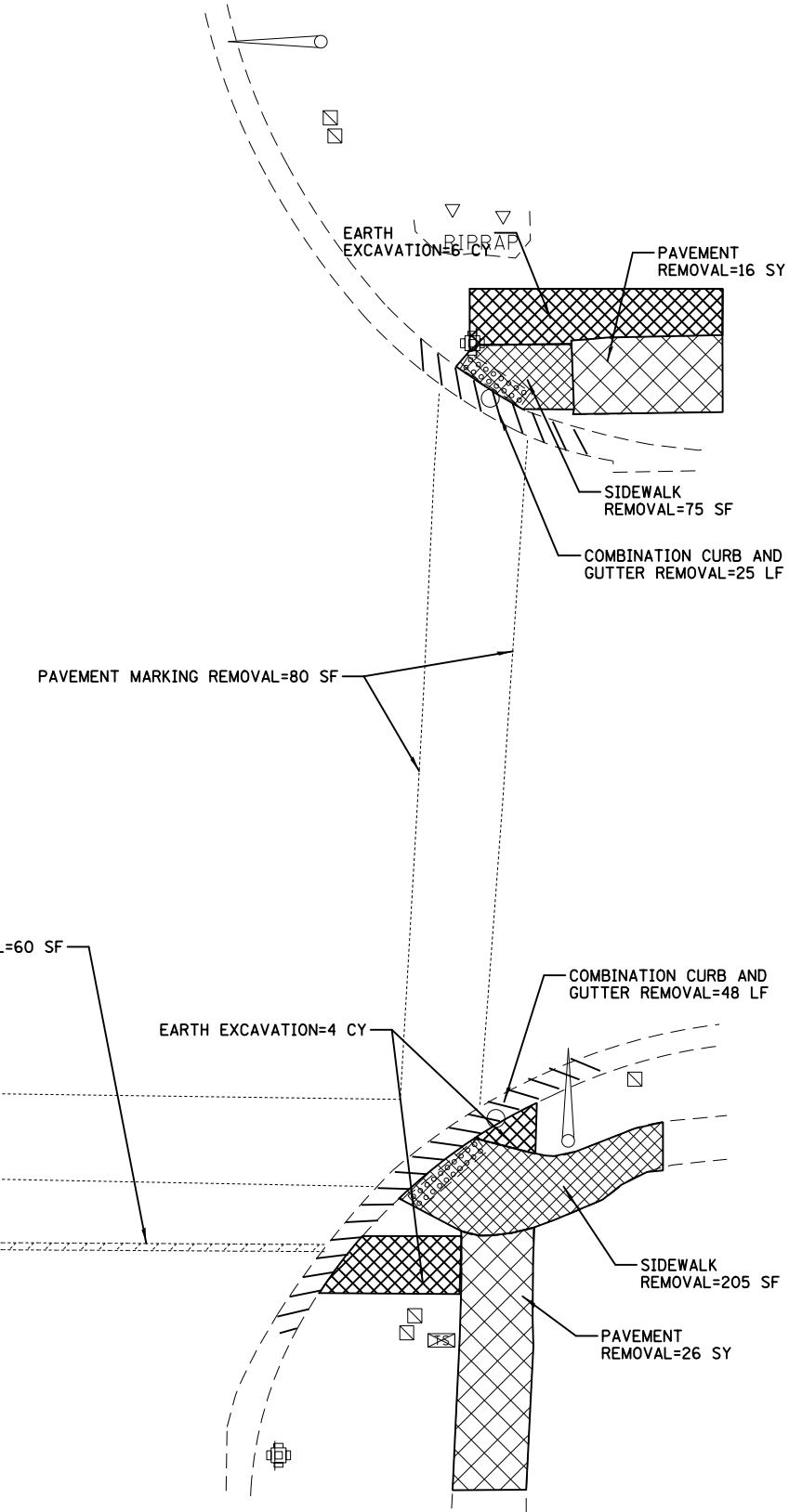
**KANE COUNTY HSIP
ORCHARD ROAD AND GALENA BOULEVARD
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 20' SHEET NO. 15 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	15
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



ORCHARD ROAD



FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbeldf\Kane County\120523\Civil\REM\120523-06.sht		DRAWN - JEH	REVISED -
PLOT SCALE = 20'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

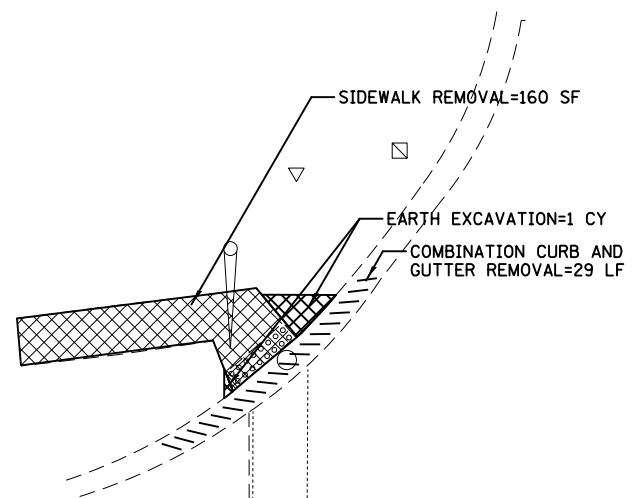
KANE COUNTY HSIP ORCHARD ROAD AND WEST INDIAN TRAIL EXISTING CONDITIONS AND REMOVAL PLAN			
SCALE: 20'	SHEET NO. 16 OF 172 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	16
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



SCALE 1" = 10'
0 10 20

WEST SULLIVAN ROAD



PAVEMENT MARKING
REMOVAL=150 SF

PAVEMENT REMOVAL=35 SY

EARTH EXCAVATION=1 CY

COMBINATION CURB AND
GUTTER REMOVAL=50 LF

SIDEWALK REMOVAL=105 SF

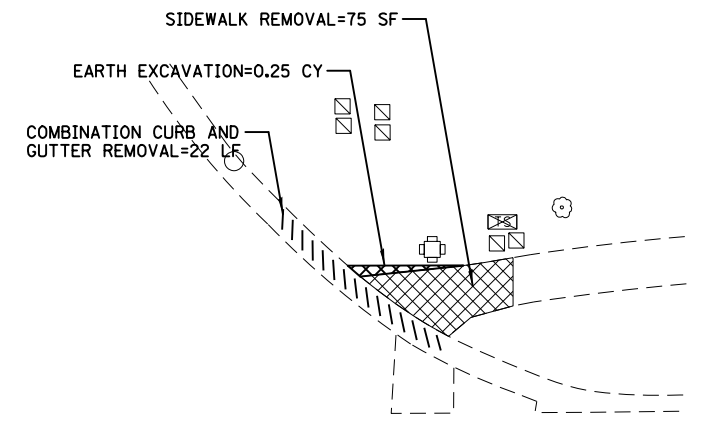
ORCHARD ROAD

PAVEMENT MARKING
REMOVAL=280 SF

COMBINATION CURB AND
GUTTER REMOVAL=39 LF

EARTH EXCAVATION=8 CY

SIDEWALK REMOVAL=250 SF



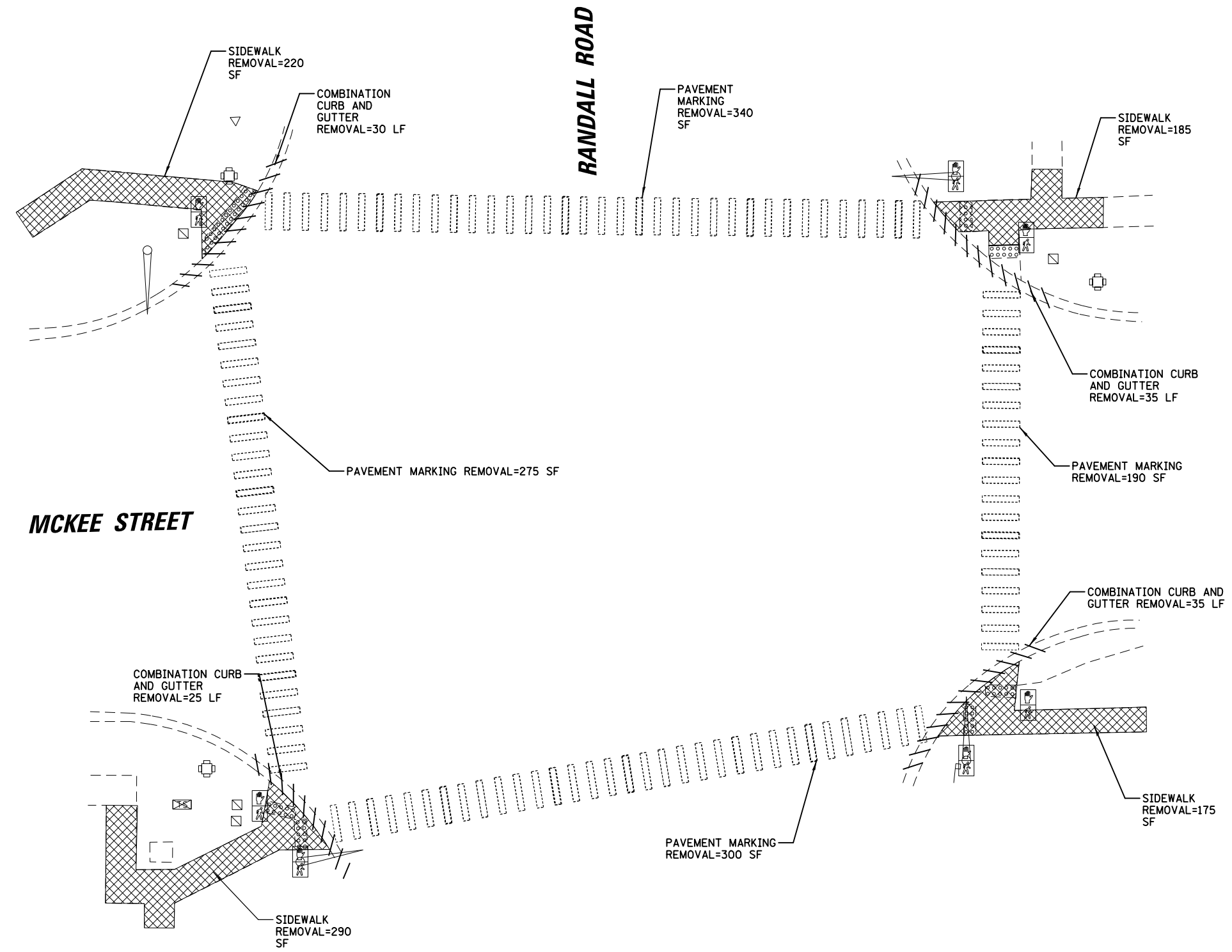
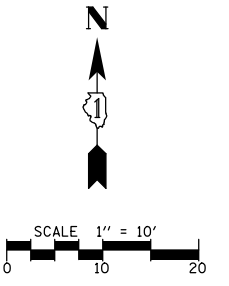
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\\CBBELSRV1\cbbel\df\t\Kane County\120523\Civil\REM\120523-08.sht	3\Civil\REM\120523-08.sht	DRAWN - JEH	REVISED -
PLOT SCALE = 20'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY HSIP
ORCHARD ROAD AND WEST SULLIVAN ROAD
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 20' SHEET NO. 17 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	17
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbeldf\Kane County\120523\Civil\REM\120523-14.sht	3\Civil\REM\120523-14.sht	DRAWN - JEH	REVISED -
	PLOT SCALE = 20'	CHECKED - LMF	REVISED -
	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

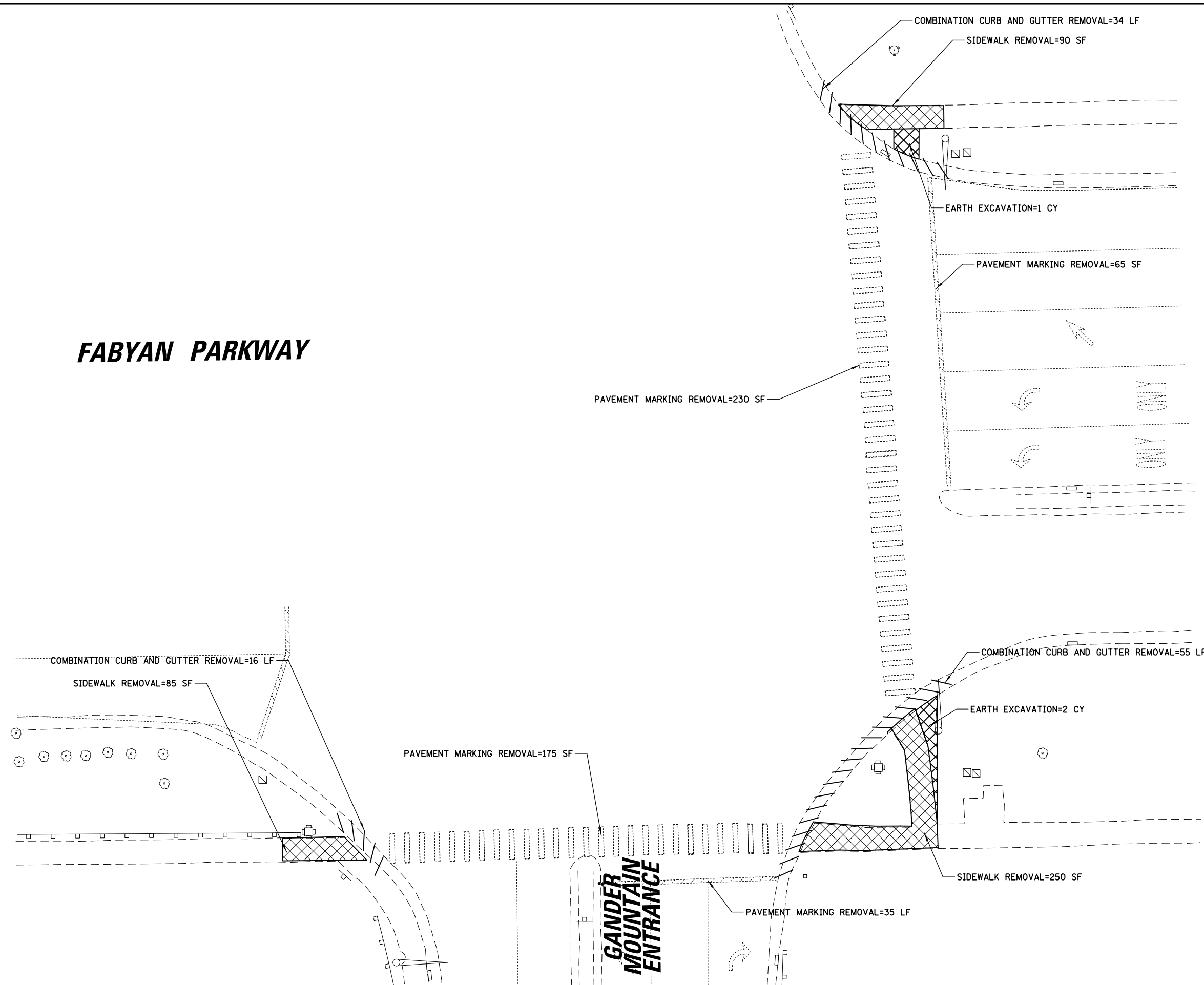
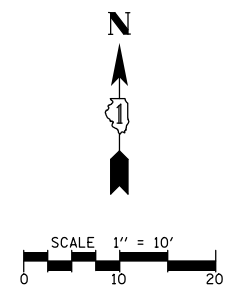
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY HSIP
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 20' SHEET NO. 18 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	18
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FABYAN PARKWAY



GANDER MOUNTAIN ENTRANCE

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbeldf\Kane County\120523\Civil\REM\120523-18.sht	3\Civil\REM\120523-18.sht	DRAWN - JEH	REVISED -
PLOT SCALE = 28'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY HSIP
FABYAN PARKWAY AND GANDER MOUNTAIN ENTRANCE
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 28' SHEET NO. 19 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	19
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
XXX.XX' PROPOSED

SHADING INDICATES
TURN POINT OR
TILES <2%

MODIFIED URETHANE PAVEMENT
MARKING LINE - 340 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
129 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

PORTLAND CEMENT
CONCRETE SIDEWALK 5
INCH=405 SF

2 SY LANDSCAPE
RESTORATION
(SODDING, SALT
TOLERANT)

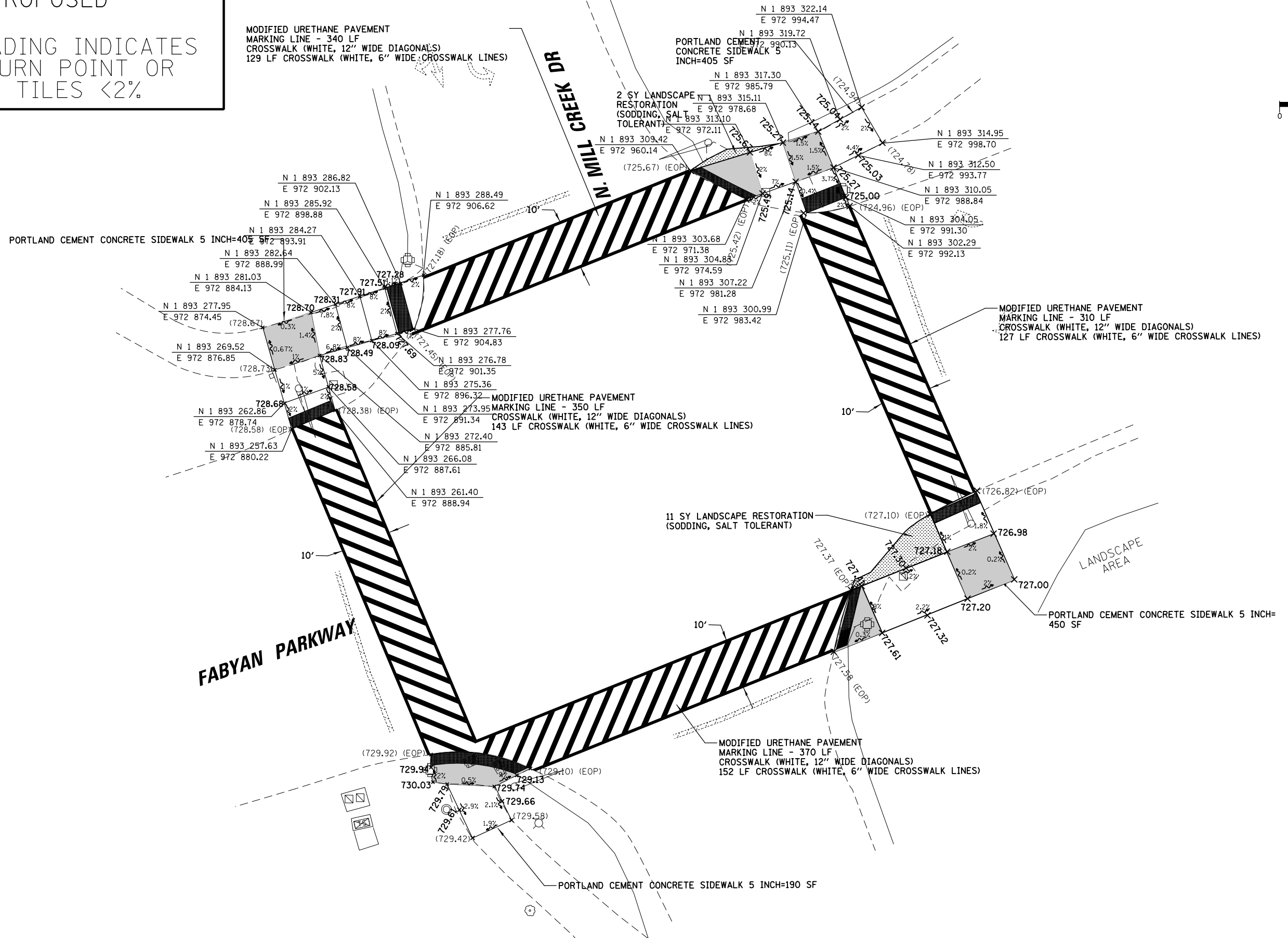
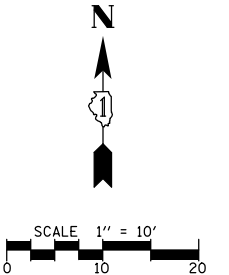
MODIFIED URETHANE PAVEMENT
MARKING LINE - 310 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
127 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

11 SY LANDSCAPE RESTORATION
(SODDING, SALT TOLERANT)

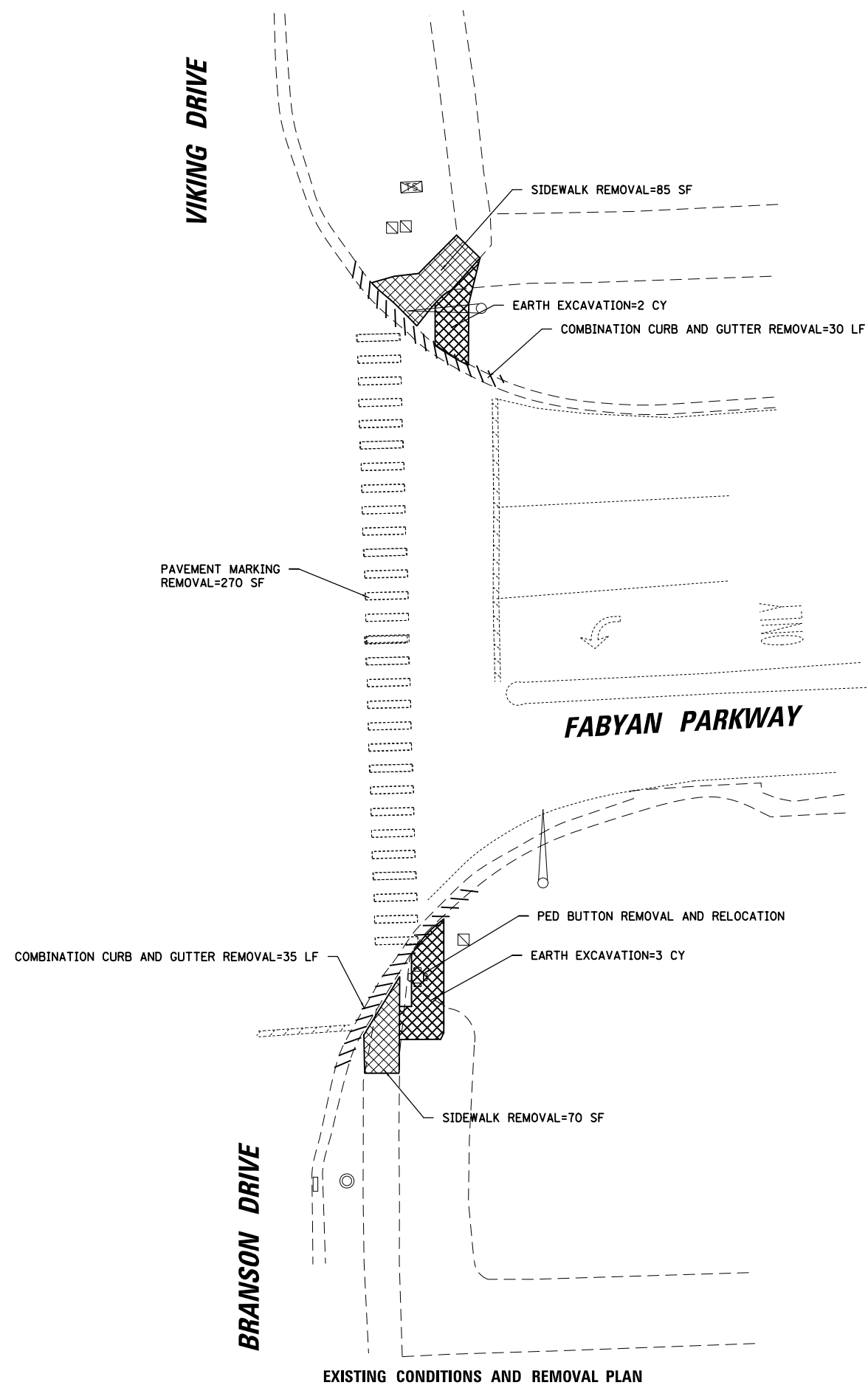
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH=
450 SF

MODIFIED URETHANE PAVEMENT
MARKING LINE - 370 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
152 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH=190 SF



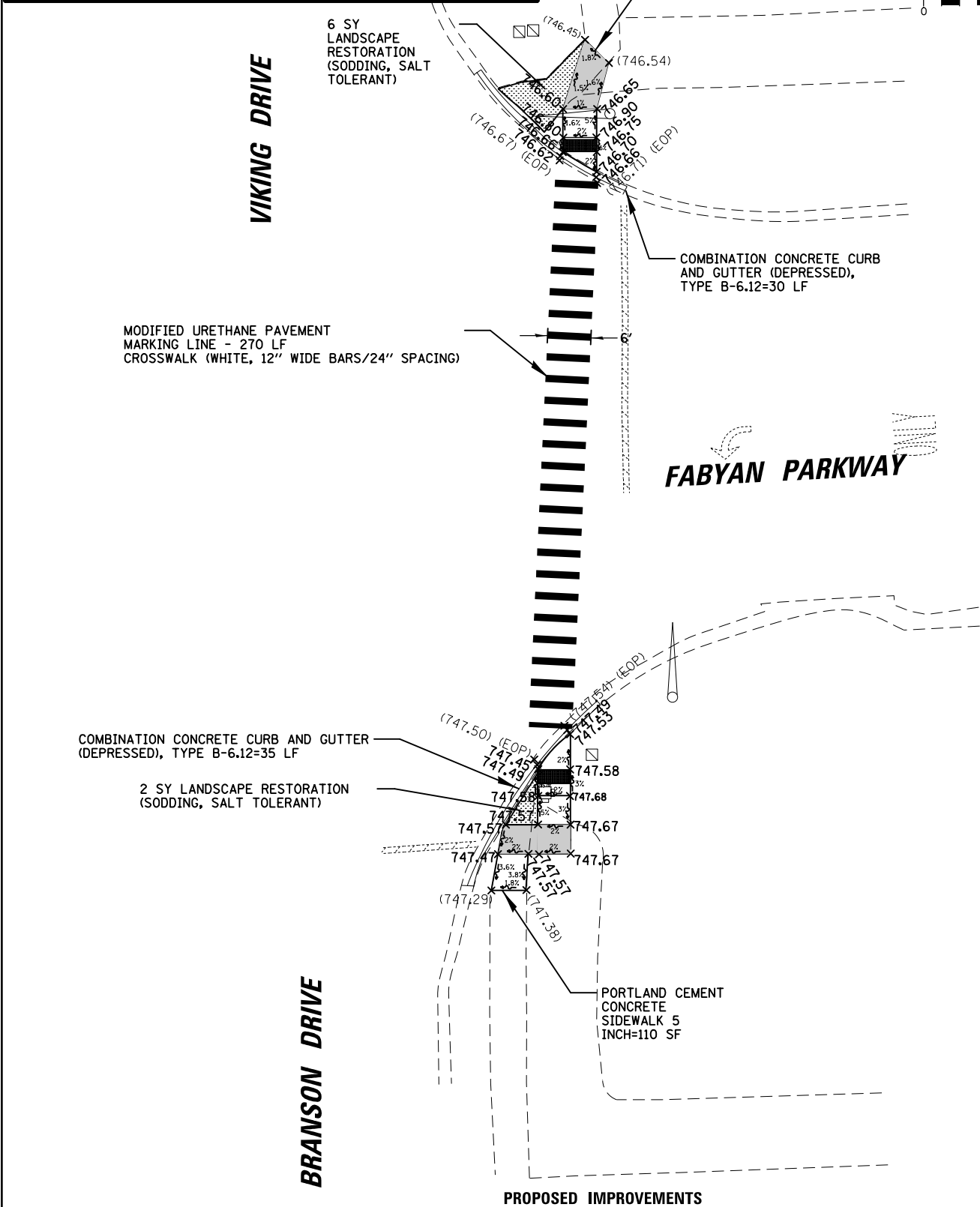
FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	KANE COUNTY HSIP FABYAN PARKWAY AND N. MILL CREEK DRIVE PROPOSED IMPROVEMENTS			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\CBBELSRVRI\cbbeldf\Kane County\120523-16.sht	3\Civil\PROJ\20523-16.sht	DRAWN - JEH	REVISED -		VARIOUS	12-00424-00-SP	KANE	172	20			
PLOT SCALE = 20'	CHECKED - LMF	REVISED -	REVISED -		CONTRACT NO.			ILLINOIS FED. AID PROJECT				
PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -	REVISED -		SCALE: 20'	SHEET NO. 20 OF 172 SHEETS	STA.	TO STA.				



EXISTING CONDITIONS AND REMOVAL PLAN

(XXX.XX') EXISTING
 XXX.XX' PROPOSED

SHADING INDICATES
 TURN POINT OR
 TILES <2%



PROPOSED IMPROVEMENTS

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBELSRV1\cbbeldf\Kane County\120523\Civil\PROJ\120523-17.sht		DRAWN - JEH	REVISED -
	PLOT SCALE = 20'	CHECKED - LMF	REVISED -
	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

KANE COUNTY HSIP FABYAN PARKWAY AND BRANSON DRIVE EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS			
SCALE: 20'	SHEET NO. 21 OF 172 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	21
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
XXX.XX' PROPOSED

SHADING INDICATES
TURN POINT OR
TILES <2%

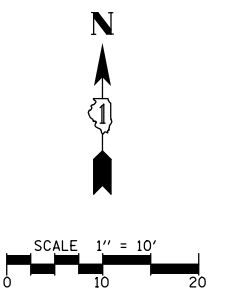


FABYAN PARKWAY

COMBINATION CONCRETE CURB AND
GUTTER, TYPE B-6.12=34 LF

5 SY LANDSCAPE RESTORATION
(SODDING, SALT TOLERANT)

PORTLAND CEMENT CONCRETE
SIDEWALK 5 INCH=120 SF



MODIFIED URETHANE PAVEMENT
MARKING LINE - 230 LF
CROSSWALK (WHITE, 12" WIDE BARS/24" SPACING)

MODIFIED URETHANE PAVEMENT MARKING-LINE 24"=65 LF

MODIFIED URETHANE PAVEMENT
MARKING LINE - 175 LF
CROSSWALK (WHITE, 12" WIDE BARS/24" SPACING)

COMBINATION CONCRETE CURB
AND GUTTER, TYPE B-6.12=16
LF

1 SY LANDSCAPE RESTORATION
(SODDING, SALT TOLERANT)

COMBINATION CONCRETE CURB AND
GUTTER, TYPE B-6.12=55 LF

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH=285 SF

PORTLAND CEMENT CONCRETE
SIDEWALK 5 INCH=80 SF

4' MIN.

MODIFIED URETHANE PAVEMENT MARKING-LINE 24"=35 LF

**GANDER
MOUNTAIN
ENTRANCE**

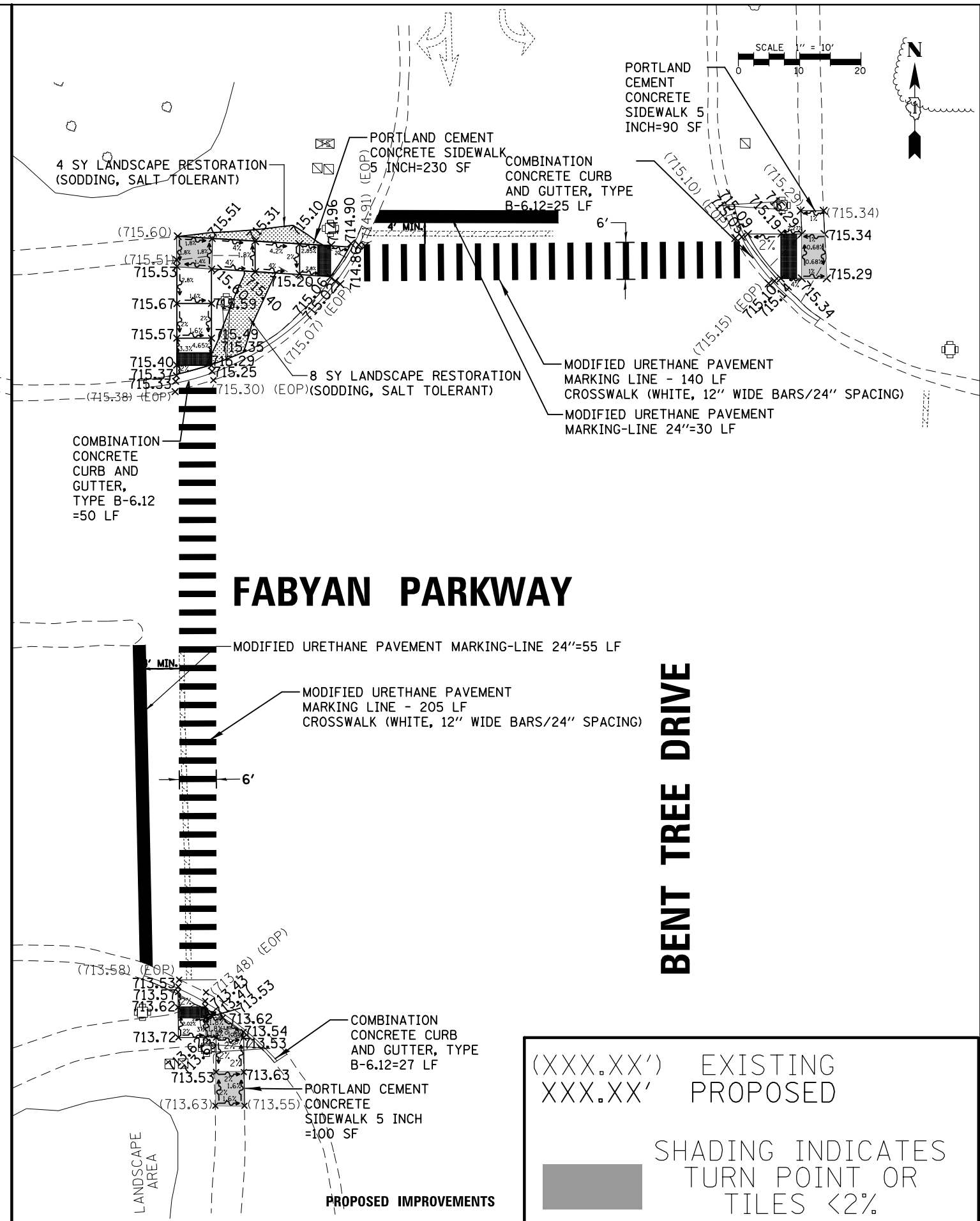
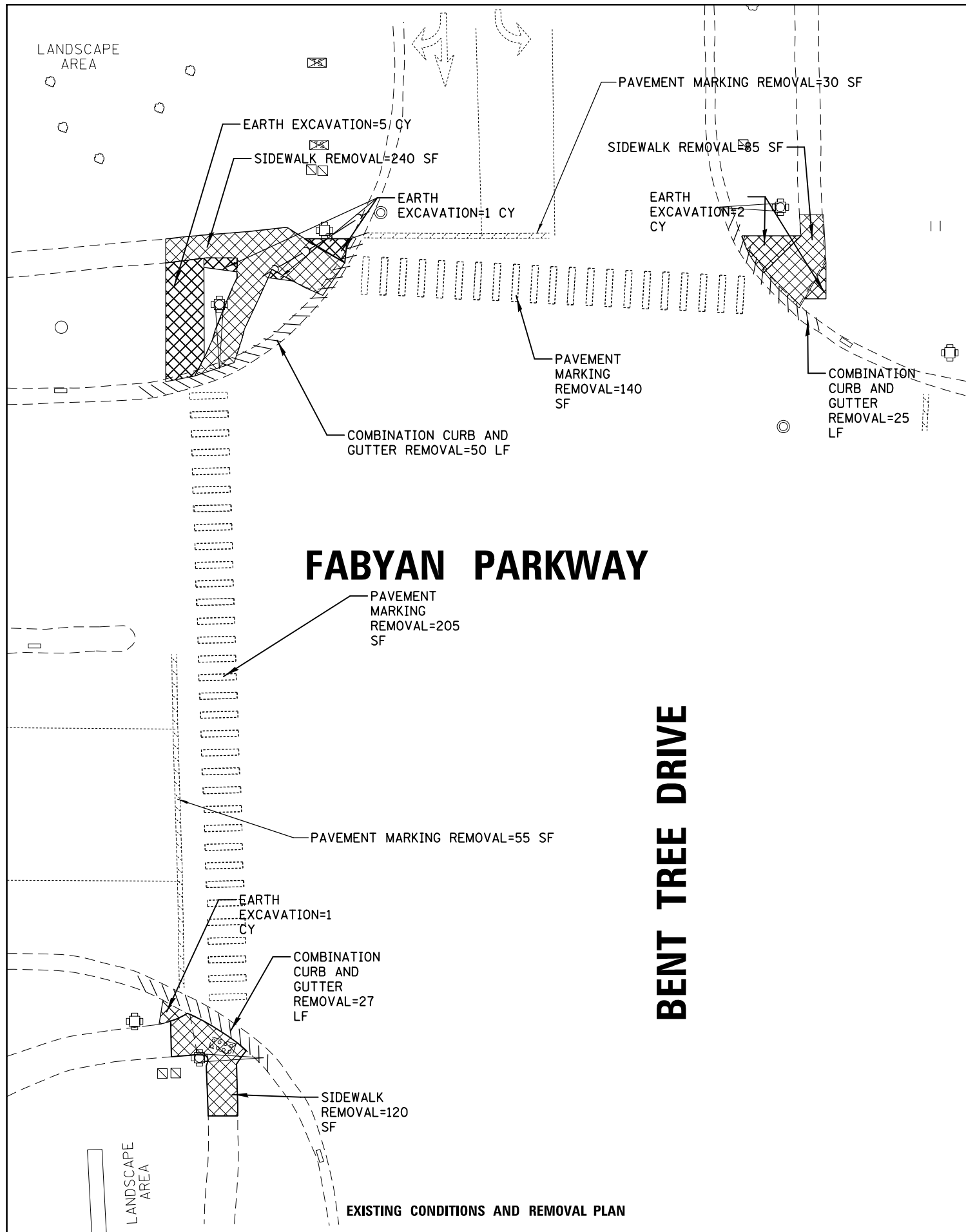
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PLOT SCALE = 28'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KANE COUNTY HSIP
FABYAN PARKWAY AND GANDER MOUNTAIN ENTRANCE
PROPOSED IMPROVEMENTS

SCALE: 28' SHEET NO. 22 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	22
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



(XXX.XX') EXISTING
 XXX.XX' PROPOSED

SHADING INDICATES
 TURN POINT OR
 TILES <2%

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
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PLOT SCALE = 20'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY HSIP
 FABYAN PARKWAY AND BENT TREE DRIVE
 EXISTING CONDITIONS, REMOVAL PLAN, AND PROPOSED IMPROVEMENTS**

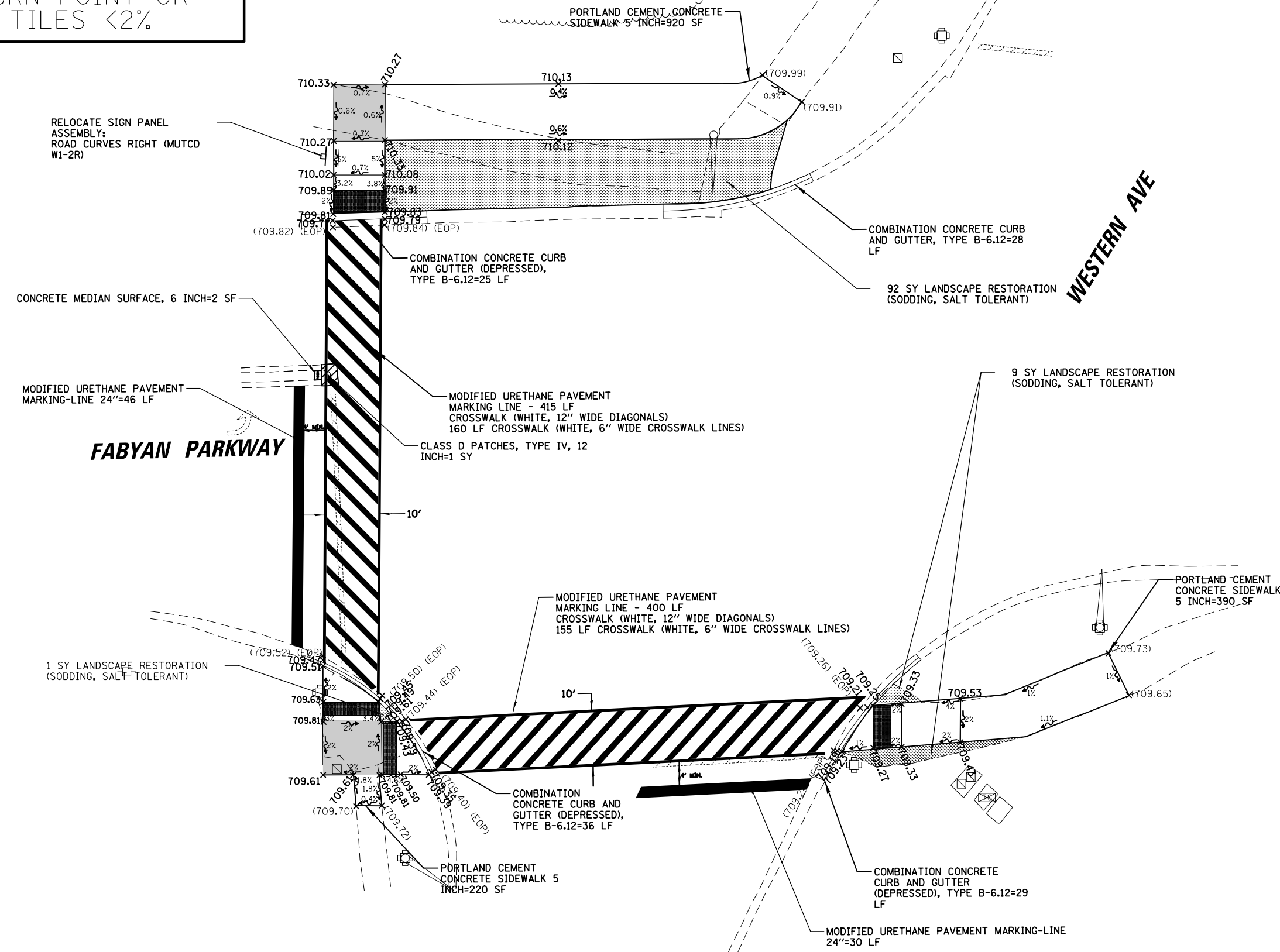
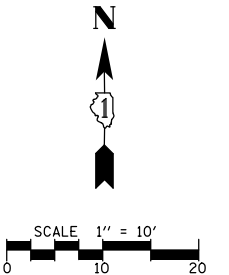
SCALE: 20' SHEET NO. 23 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	23
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
XXX.XX' PROPOSED



SHADING INDICATES
TURN POINT OR
TILES <2%



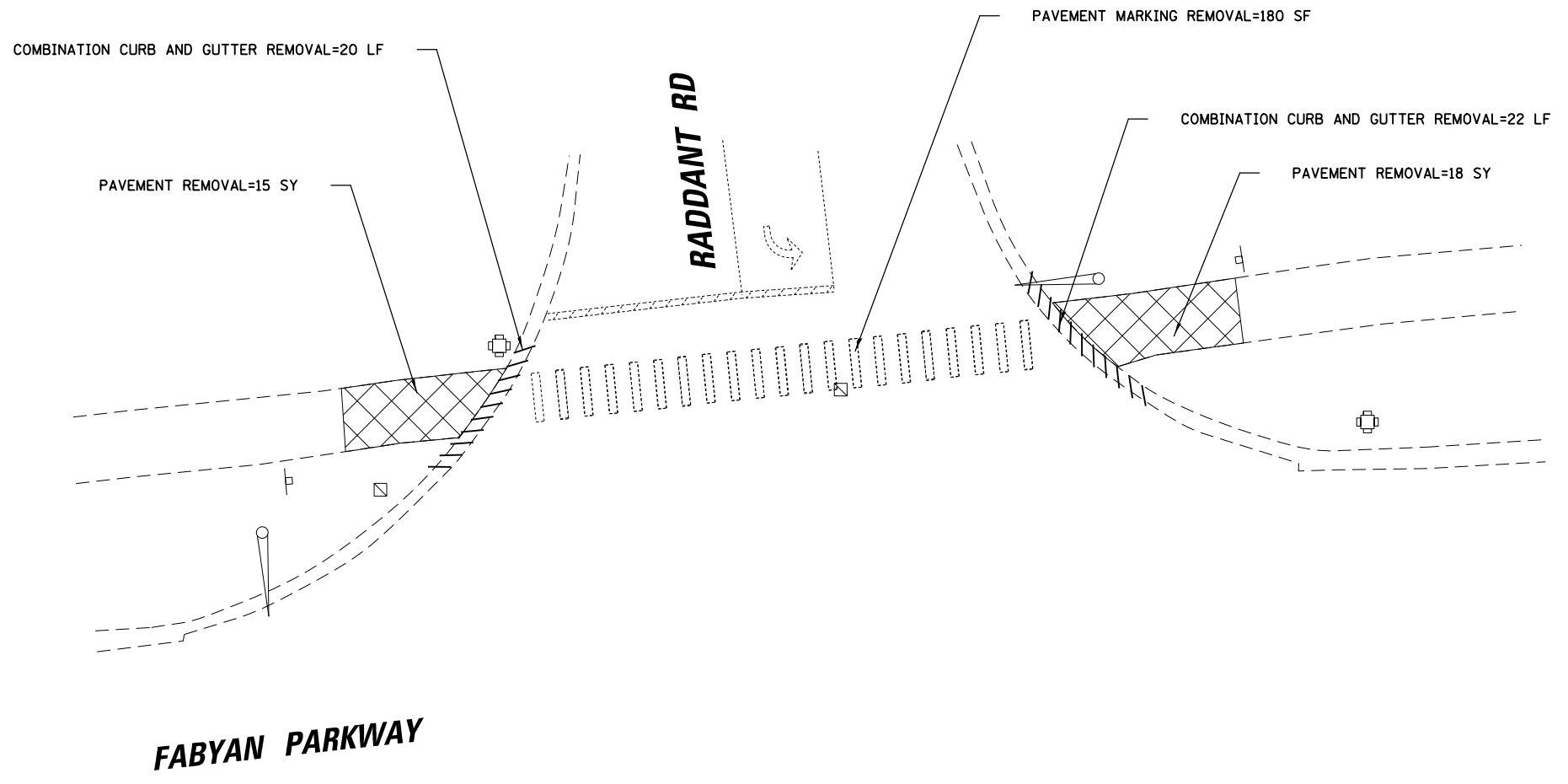
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PLOT SCALE = 20'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

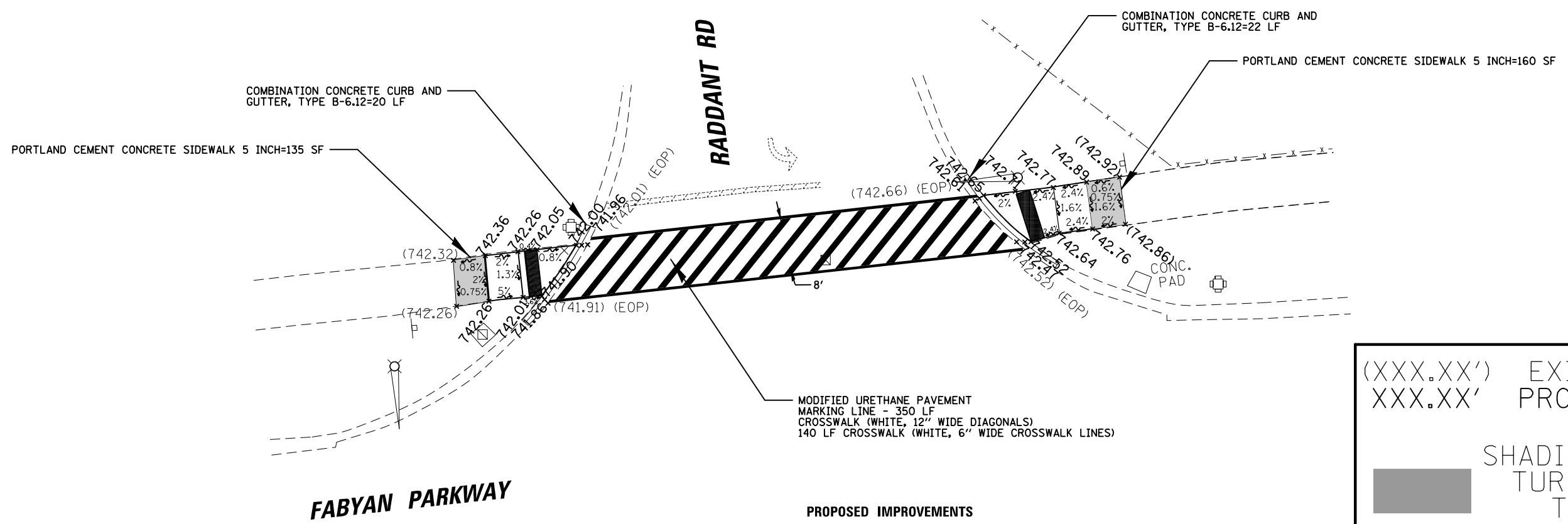
**KANE COUNTY HSIP
FABYAN PARKWAY AND WESTERN AVENUE
PROPOSED IMPROVEMENTS**

SCALE: 20' SHEET NO. 24 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	24
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



EXISTING CONDITIONS AND REMOVAL PLAN



PROPOSED IMPROVEMENTS

(XXX.XX') EXISTING
 XXX.XX' PROPOSED

SHADING INDICATES
 TURN POINT OR
 TILES <2%

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	KANE COUNTY HSIP RADDANT ROAD AND FABYAN PARKWAY EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\\CBBELSRVRI\cbbel\df\Kane County\120523\Civil\PROJ\20523-21.sht	3\Civil\PROJ\20523-21.sht	DRAWN - JEH	REVISED -		SCALE: 20'	SHEET NO. 25 OF 172 SHEETS	STA.	TO STA.	VARIOUS	12-00424-00-SP	KANE	172	25
PLOT SCALE = 20'		CHECKED - LMF	REVISED -		CONTRACT NO.								
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -		ILLINOIS FED. AID PROJECT								

(XXX.XX') EXISTING
XXX.XX' PROPOSED

SHADING INDICATES
TURN POINT OR
TILES <2%

MODIFIED URETHANE PAVEMENT
MARKING LINE - 360 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
136 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

MODIFIED URETHANE PAVEMENT MARKING-LINE 24"=22 LF

MODIFIED URETHANE PAVEMENT
MARKING-LETTERS AND
SYMBOLS"=50 SF

ONLY

PORTLAND CEMENT CONCRETE
SIDEWALK 5 INCH=1045 SF

MODIFIED URETHANE PAVEMENT MARKING-LINE 24"=56 LF

MODIFIED URETHANE PAVEMENT
MARKING LINE - 700 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
281 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

PORTLAND CEMENT CONCRETE
SIDEWALK 5 INCH=195 SF

COMBINATION CONCRETE CURB
AND GUTTER (DEPRESSED),
TYPE B-6.12=105 LF

CONCRETE
MEDIAN SURFACE,
6 INCH=35 SF

MAST ARM RELOCATION
80 SY LANDSCAPE RESTORATION
(SODDING, SALT TOLERANT)

COMBINATION CONCRETE CURB AND
GUTTER (DEPRESSED), TYPE B-6.12=27
LF

MODIFIED URETHANE PAVEMENT
MARKING LINE - 360 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
136 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

MODIFIED URETHANE PAVEMENT
MARKING LINE - 200 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
80 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

MODIFIED URETHANE PAVEMENT
MARKING LINE - 500 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
210 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

PORTLAND CEMENT CONCRETE
SIDEWALK 5 INCH=440 SF

COMBINATION CONCRETE CURB AND
GUTTER (DEPRESSED), TYPE B-6.12=65 LF

PORTLAND CEMENT
CONCRETE SIDEWALK 5
INCH=110 SF

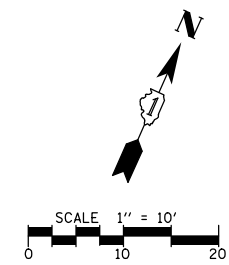
MAST ARM RELOCATION

PORTLAND CEMENT
CONCRETE SIDEWALK
5 INCH=125 SF

MODIFIED URETHANE PAVEMENT
MARKING LINE - 150 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
60 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

PORTLAND CEMENT
CONCRETE SIDEWALK 5
INCH=360 SF

CORNER IS CURRENTLY
ADA COMPLIANT AS-IS



FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	KANE COUNTY HSIP ORCHARD ROAD AND JERICHO ROAD PROPOSED IMPROVEMENTS			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\CBBELSRVRI\cbbel\df\t\Kane County\120523\3\Civil\PROJ\20523-01.sht		DRAWN - JEH	REVISED -		VARIOUS	12-00424-00-SP	KANE	172	26			
PLOT SCALE = 20'		CHECKED - LMF	REVISED -		CONTRACT NO.							
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -		SCALE: 20'	SHEET NO. 26 OF 172 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
XXX.XX' PROPOSED

SHADING INDICATES
TURN POINT OR
TILES <2%



MODIFIED URETHANE PAVEMENT
MARKING LINE - 530 LF
CROSSWALK (WHITE, 12" WIDE DIAGONALS)
205 LF CROSSWALK (WHITE, 6" WIDE CROSSWALK LINES)

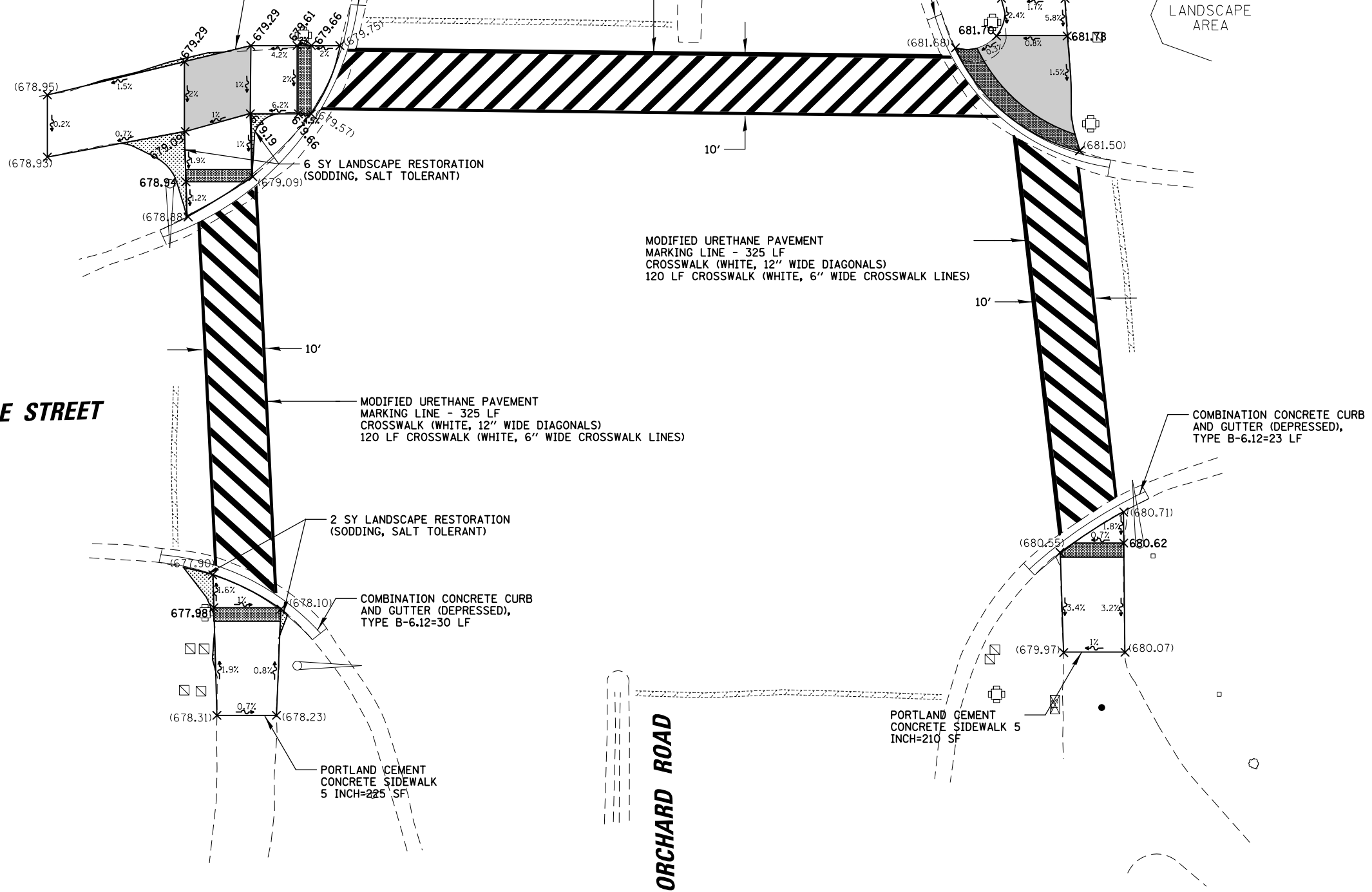
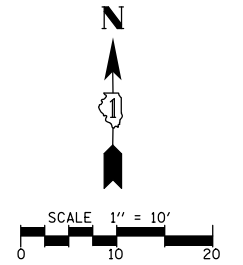
PORTLAND CEMENT
CONCRETE SIDEWALK 5
INCH=610 SF

COMBINATION CONCRETE
CURB AND GUTTER
(DEPRESSED), TYPE
B-6.12=52 LF

COMBINATION CONCRETE CURB
AND GUTTER (DEPRESSED),
TYPE B-6.12=40 LF

PORTLAND CEMENT
CONCRETE SIDEWALK
5 INCH=275 SF

LANDSCAPE
AREA



PRAIRIE STREET

ORCHARD ROAD

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbeldf\Kane County\120523\PROJ\120523-02.sht	3\Civil\PROJ\120523-02.sht	DRAWN - JEH	REVISED -
PLOT SCALE = 20'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

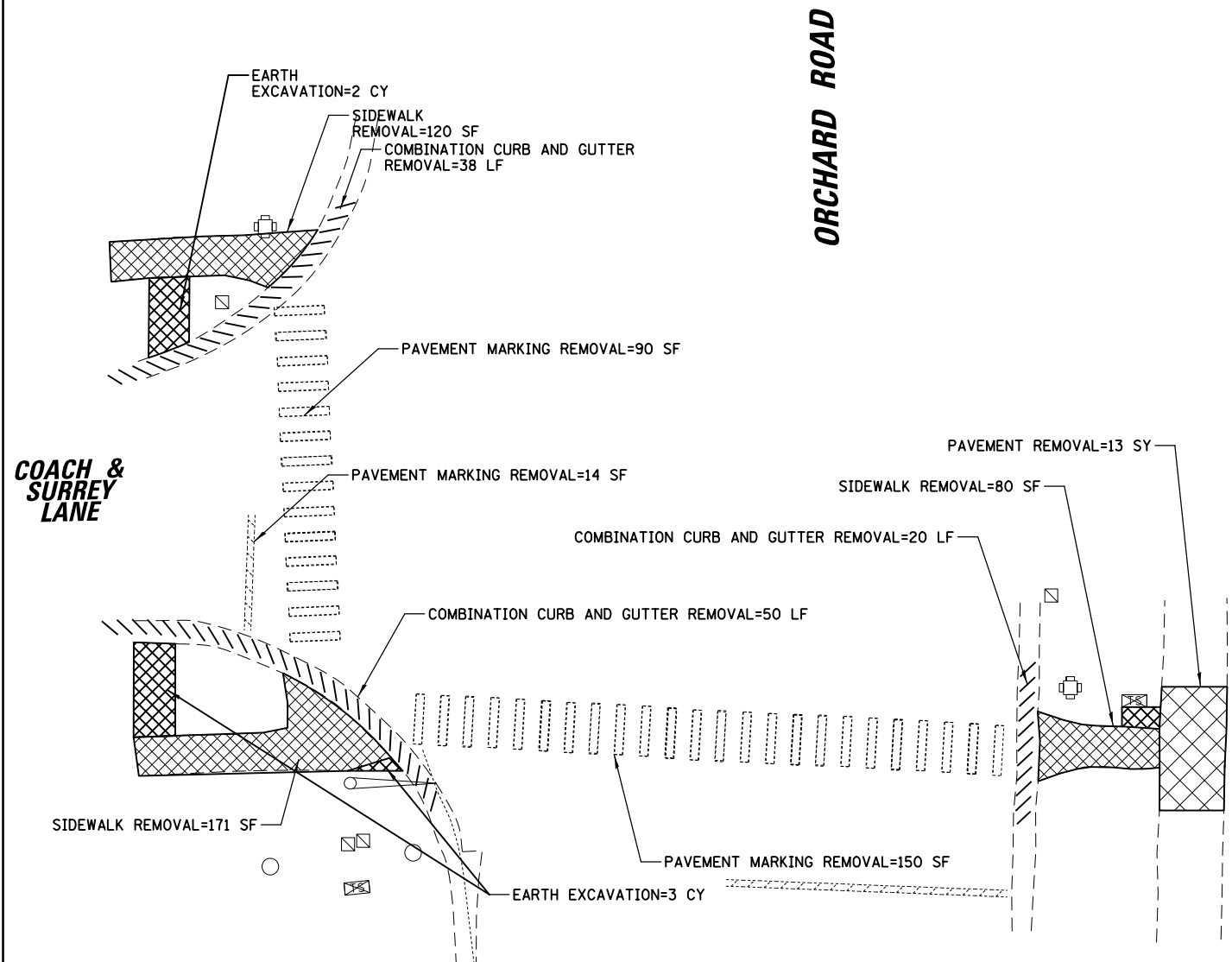
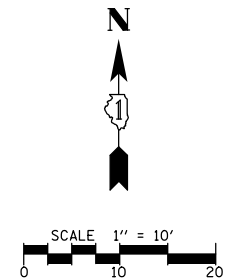
KANE COUNTY HSIP
ORCHARD ROAD AND PRAIRIE STREET
PROPOSED IMPROVEMENTS

SCALE: 20' SHEET NO. 27 OF 172 SHEETS STA. TO STA.

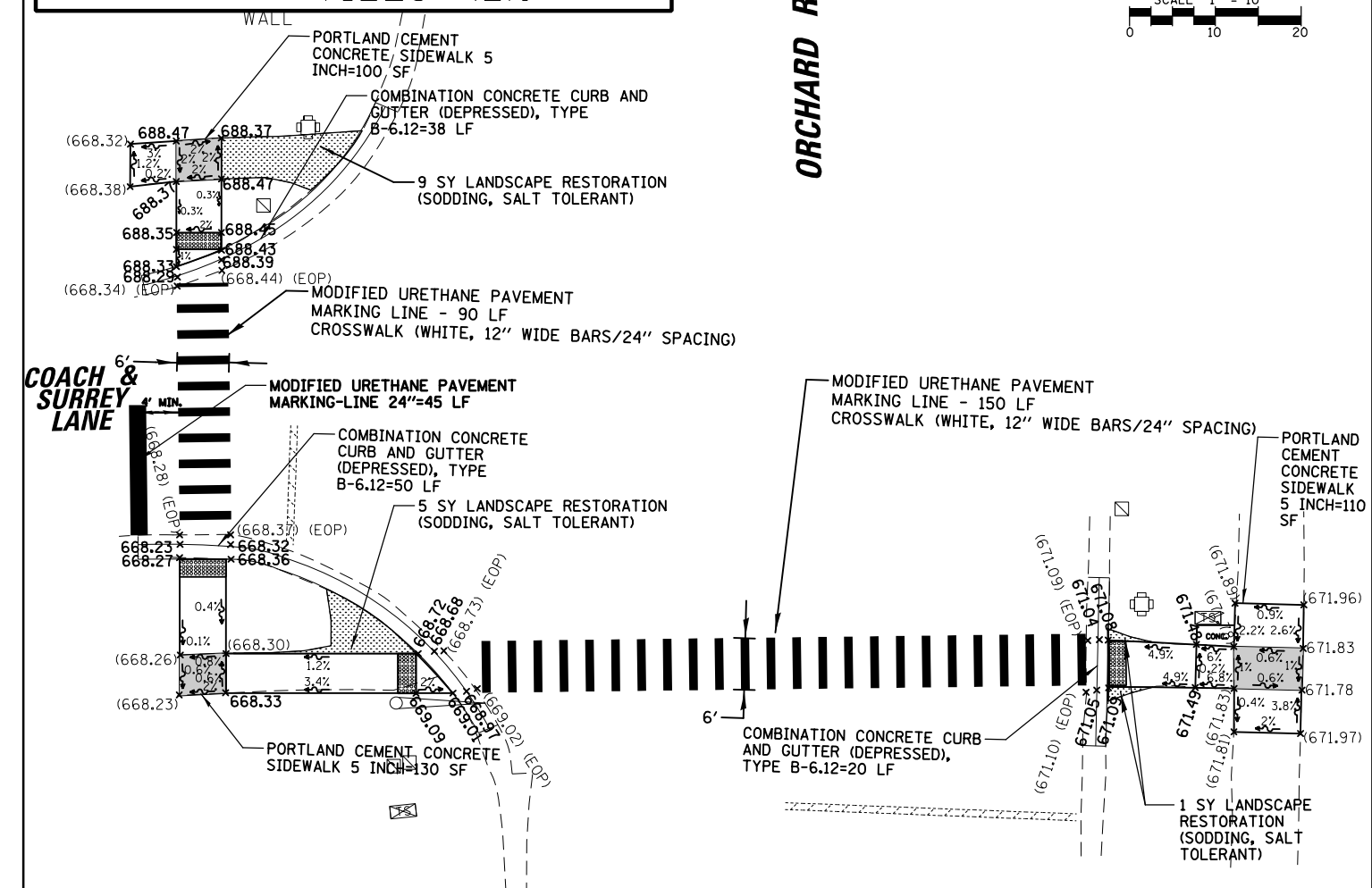
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	27
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
 XXX.XX' PROPOSED

SHADING INDICATES
 TURN POINT OR
 TILES <2%



EXISTING CONDITIONS AND REMOVAL PLAN



PROPOSED IMPROVEMENTS

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbeldf\Kane County\120523\PROJ\120523-03.sht		DRAWN - JEH	REVISED -
PLOT SCALE = 28'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

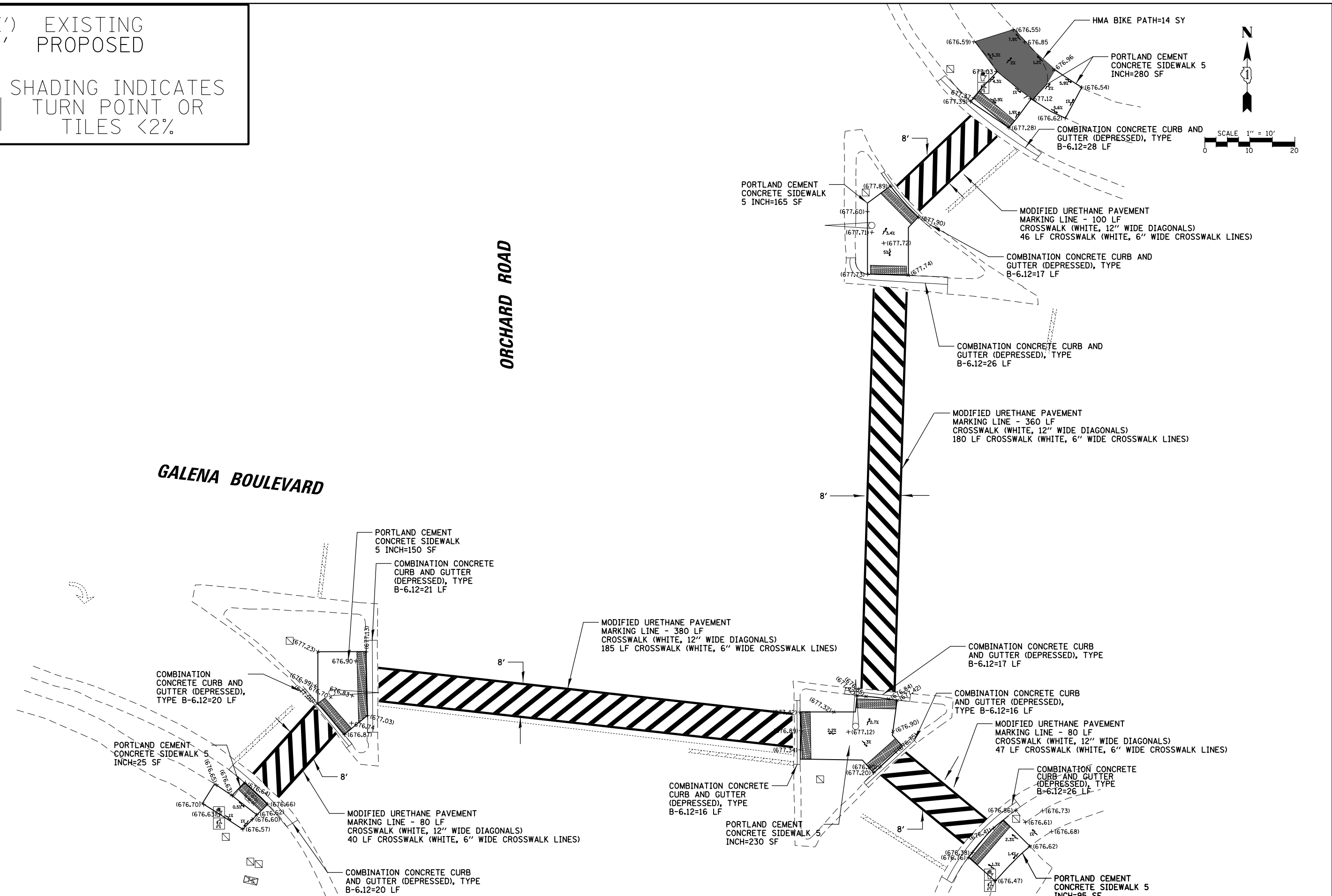
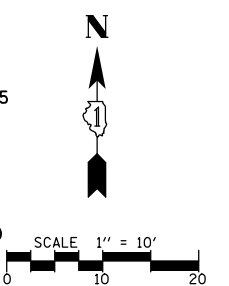
KANE COUNTY HSIP			
ORCHARD ROAD AND COACH & SURREY LANE			
EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS			
SCALE: 28'	SHEET NO. 28 OF 172 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	28
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
XXX.XX' PROPOSED



SHADING INDICATES
TURN POINT OR
TILES <2%



FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbeldf\Kane County\120523\PROJ\120523-04.sht		DRAWN - JEH	REVISED -
PLOT SCALE = 20'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY HSIP
ORCHARD ROAD AND GALENA BOULEVARD
PROPOSED IMPROVEMENTS**

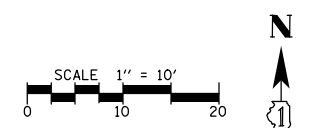
SCALE: 20' SHEET NO. 29 OF 172 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	29
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
XXX.XX' PROPOSED

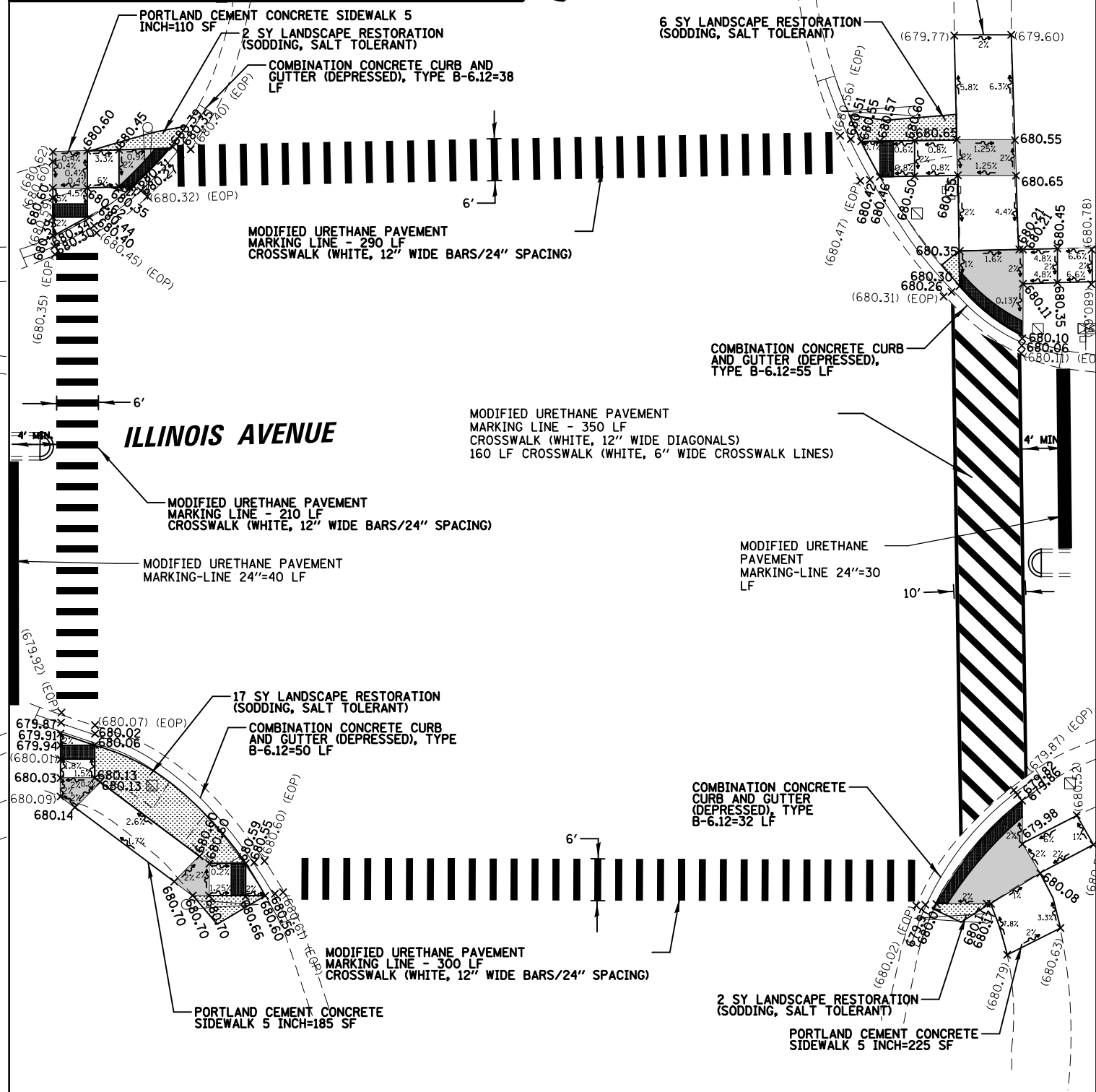
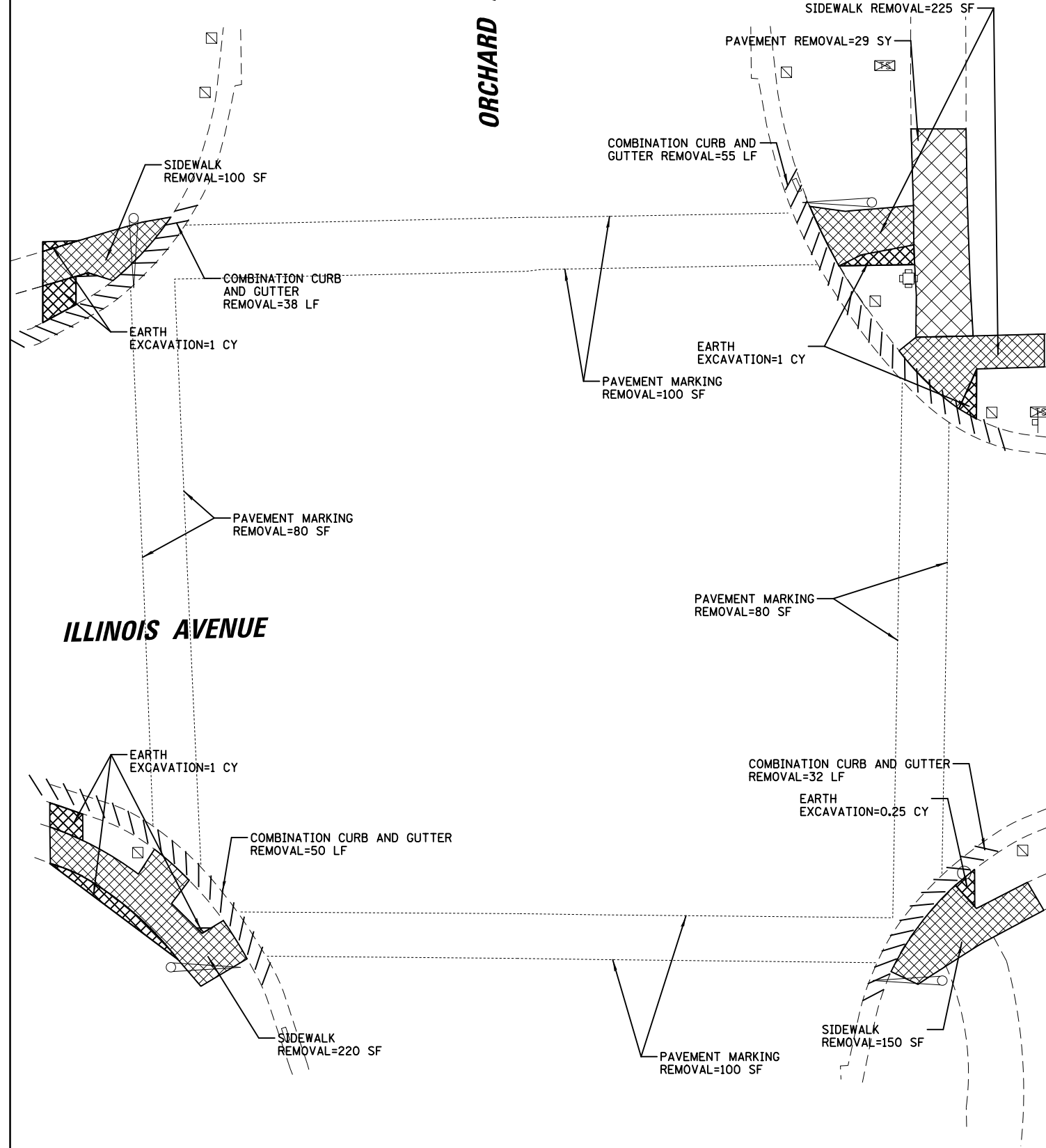


SHADING INDICATES
TURN POINT OR
TILES <2%



ORCHARD ROAD

ORCHARD ROAD



ILLINOIS AVENUE

ILLINOIS AVENUE

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRV1\cbbel\df\t\Kane County\120523\PROJ\120523-05.sht		DRAWN - JEH	REVISED -
PLOT SCALE = 28'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

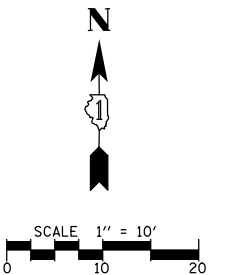
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KANE COUNTY HSIP
ORCHARD ROAD AND ILLINOIS AVENUE
EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS
SCALE: 28' SHEET NO. 30 OF 172 SHEETS STA. TO STA.

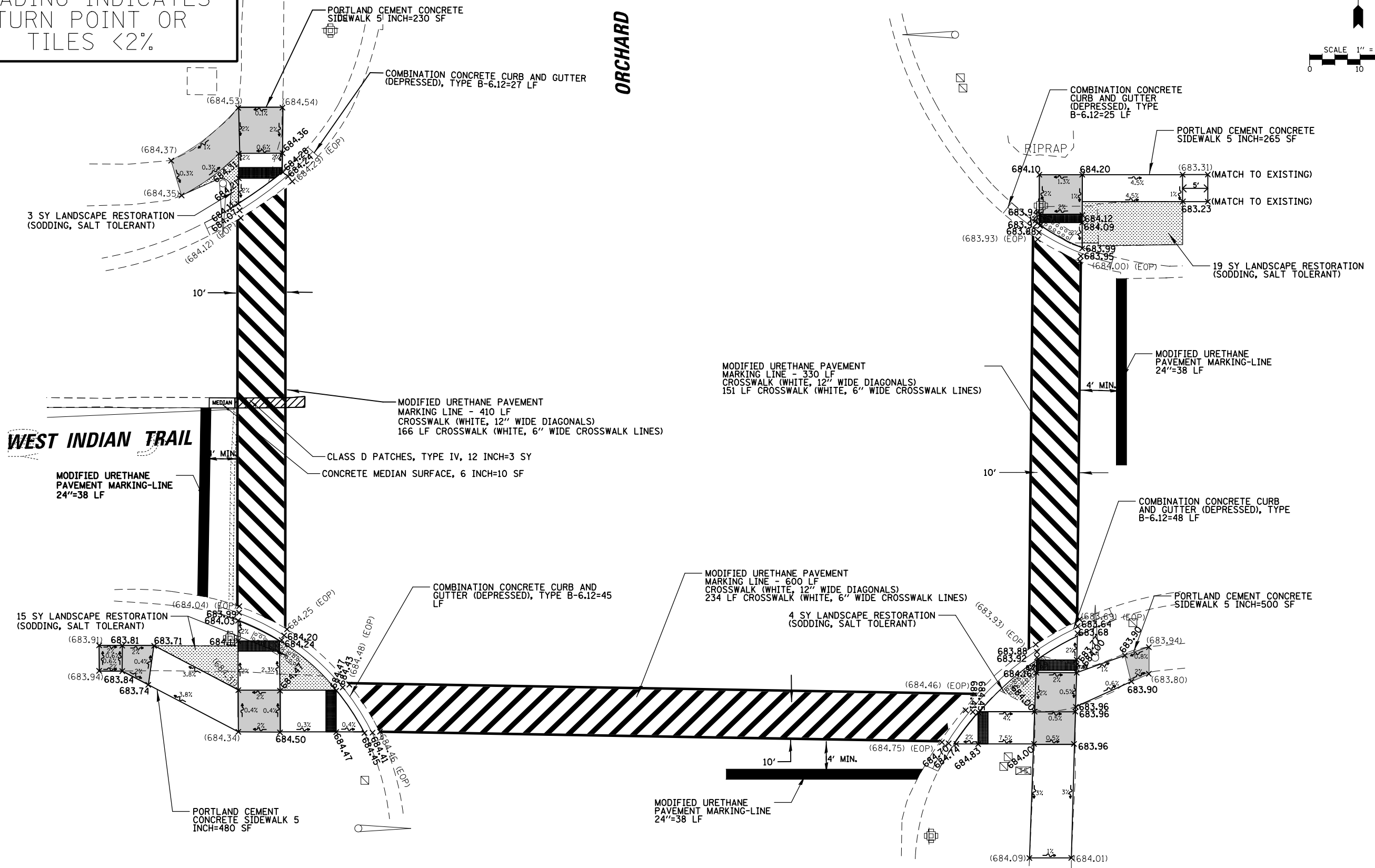
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	30
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
XXX.XX' PROPOSED

SHADING INDICATES
TURN POINT OR
TILES <2%



ORCHARD ROAD

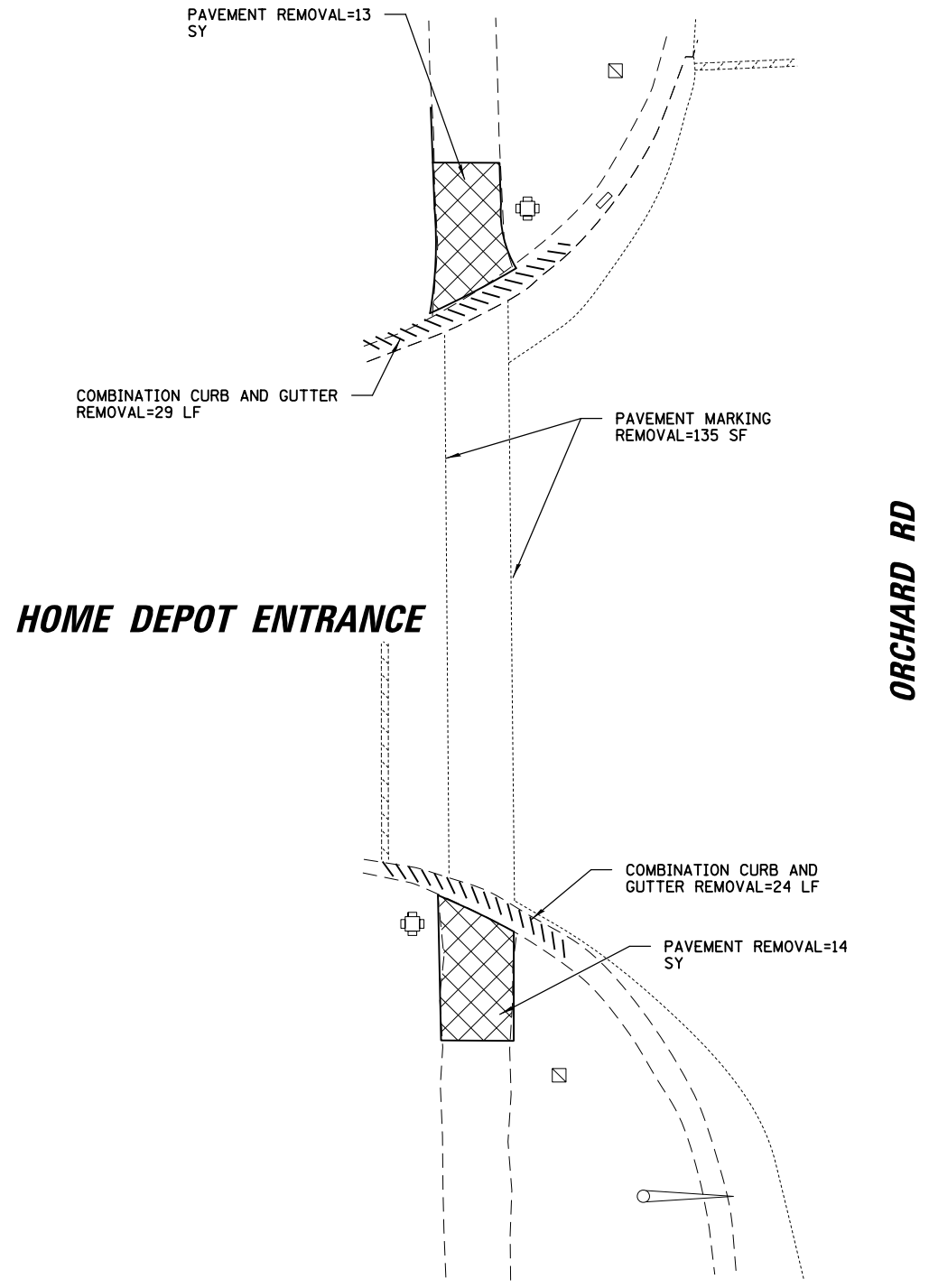
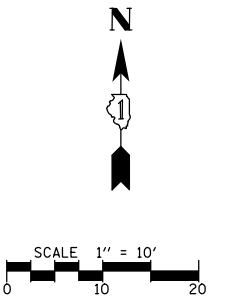


WEST INDIAN TRAIL

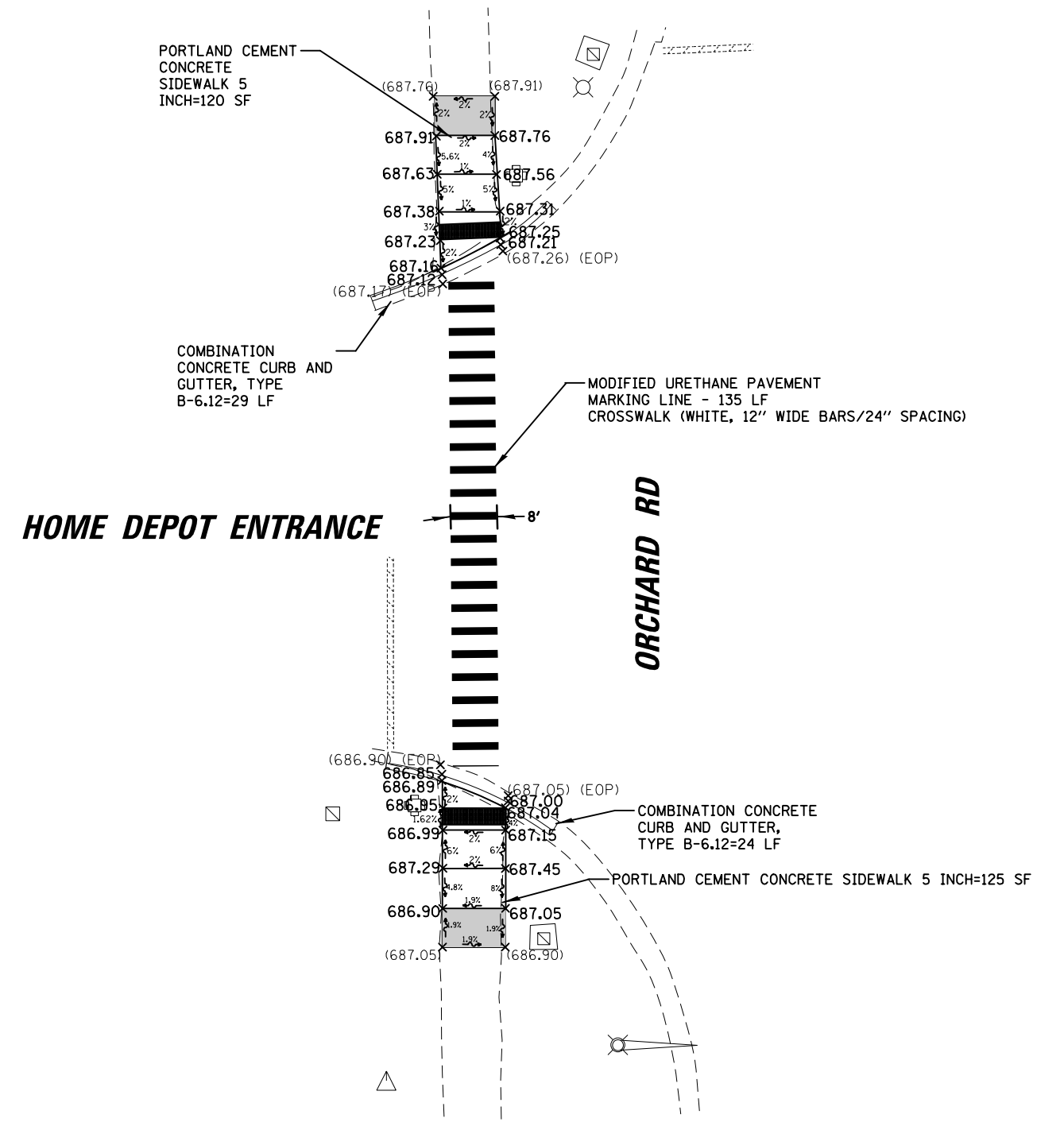
FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	KANE COUNTY HSIP ORCHARD ROAD AND WEST INDIAN TRAIL PROPOSED IMPROVEMENTS			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\CBELSRVRI\cbbeldf\Kane County\120523\PRO\120523-06.sht	3\Civil\PRO\120523-06.sht	DRAWN - JEH	REVISED -		VARIOUS	12-00424-00-SP	KANE	172	31			
PLOT SCALE = 20'		CHECKED - LMF	REVISED -		CONTRACT NO.			ILLINOIS FED. AID PROJECT				
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -		SCALE: 20'	SHEET NO. 31 OF 172 SHEETS	STA.	TO STA.				

(XXX.XX') EXISTING
 XXX.XX' PROPOSED

SHADING INDICATES
 TURN POINT OR
 TILES <2%



EXISTING CONDITIONS AND REMOVAL PLAN



PROPOSED IMPROVEMENTS

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbeldf\Kane County\120523\Civil\PROJ\120523-07.sht		DRAWN - JEH	REVISED -
PLOT SCALE = 20'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

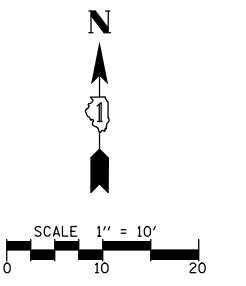
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

KANE COUNTY HSIP ORCHARD ROAD AND COMISKEY AVENUE EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS			
SCALE: 20'	SHEET NO. 32 OF 172 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	32
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

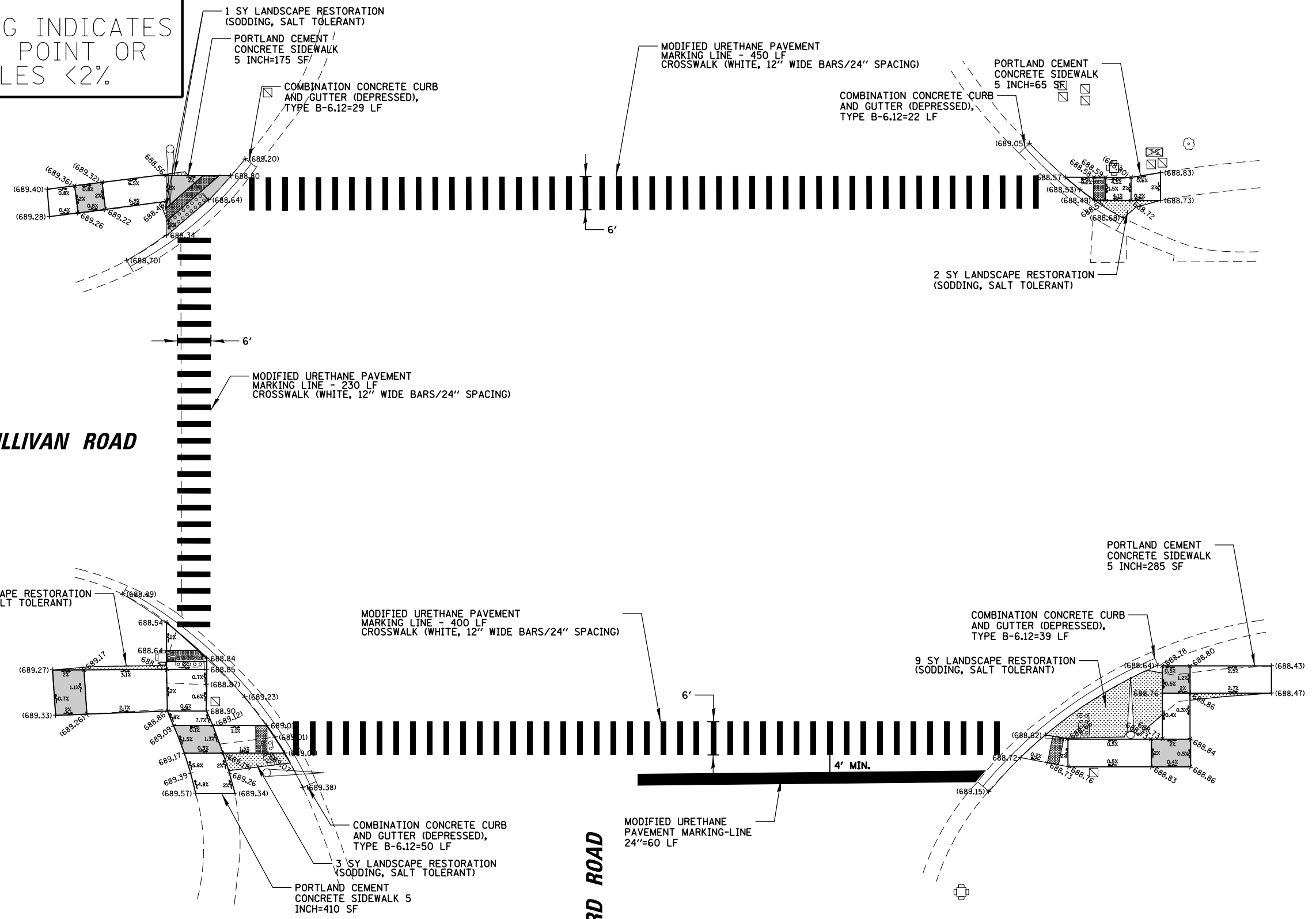
(XXX.XX') EXISTING
 XXX.XX' PROPOSED

SHADING INDICATES
 TURN POINT OR
 TILES <2%



WEST SULLIVAN ROAD

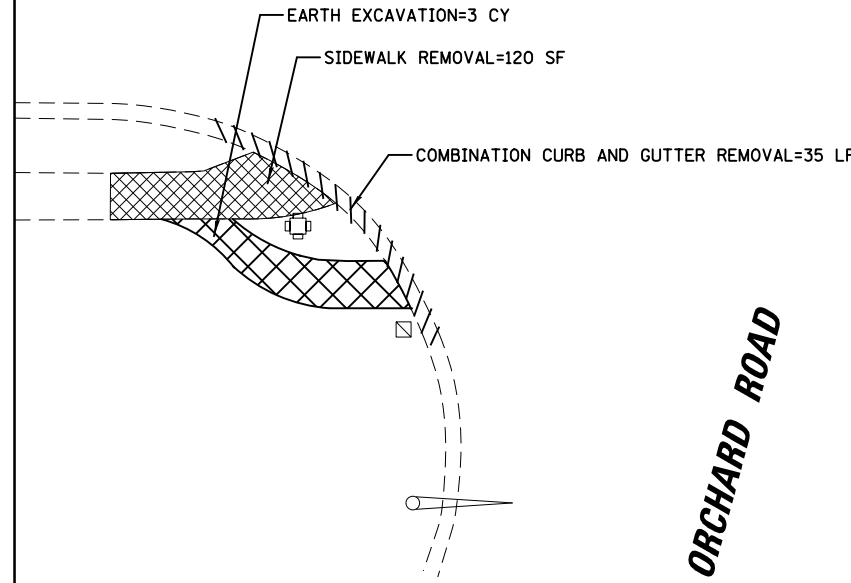
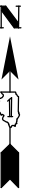
ORCHARD ROAD



FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	KANE COUNTY HSIP ORCHARD ROAD AND WEST SULLIVAN ROAD PROPOSED IMPROVEMENTS			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\\CBBELSRVRI\cbbel\df\t\Kane County\120523\PROJ\120523-08.sht		DRAWN - JEH	REVISED -		SCALE: 20'	SHEET NO. 33 OF 172 SHEETS	STA.	TO STA.	VARIOUS	12-00424-00-SP	KANE	172	33
PLOT SCALE = 20'		CHECKED - LMF	REVISED -										
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -										
								CONTRACT NO.			ILLINOIS FED. AID PROJECT		

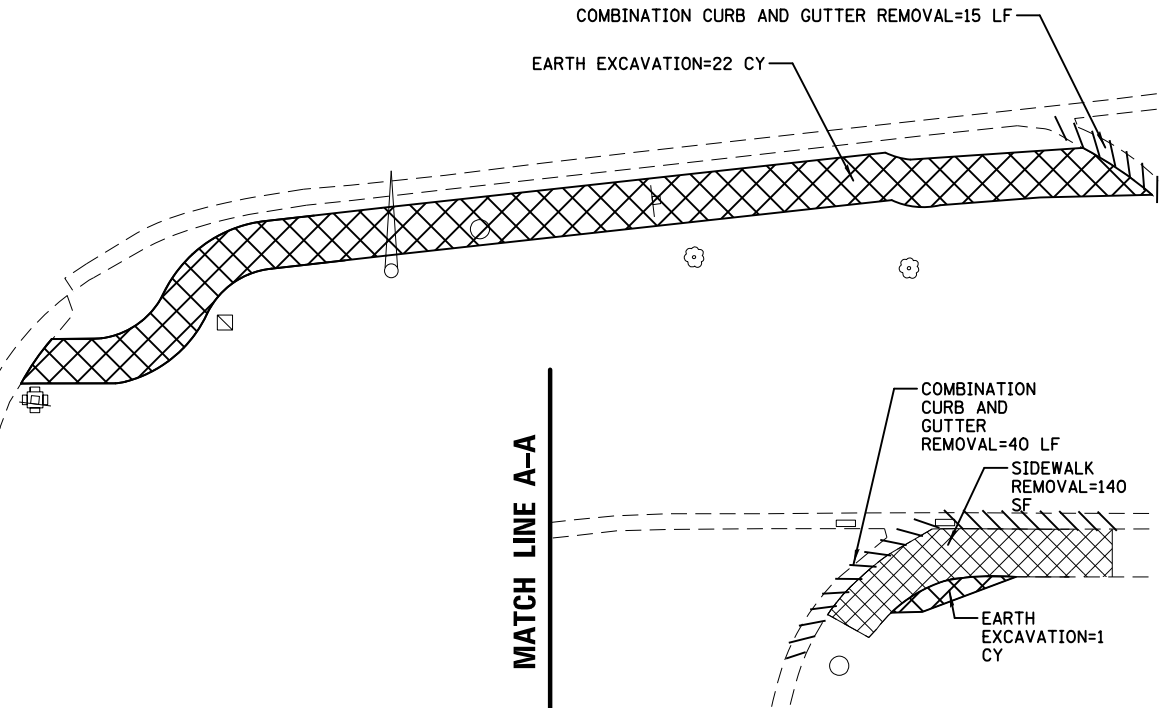
ORCHARD GATEWAY BOULEVARD

SCALE 1" = 10'



ORCHARD ROAD

EXISTING CONDITIONS AND REMOVAL PLAN



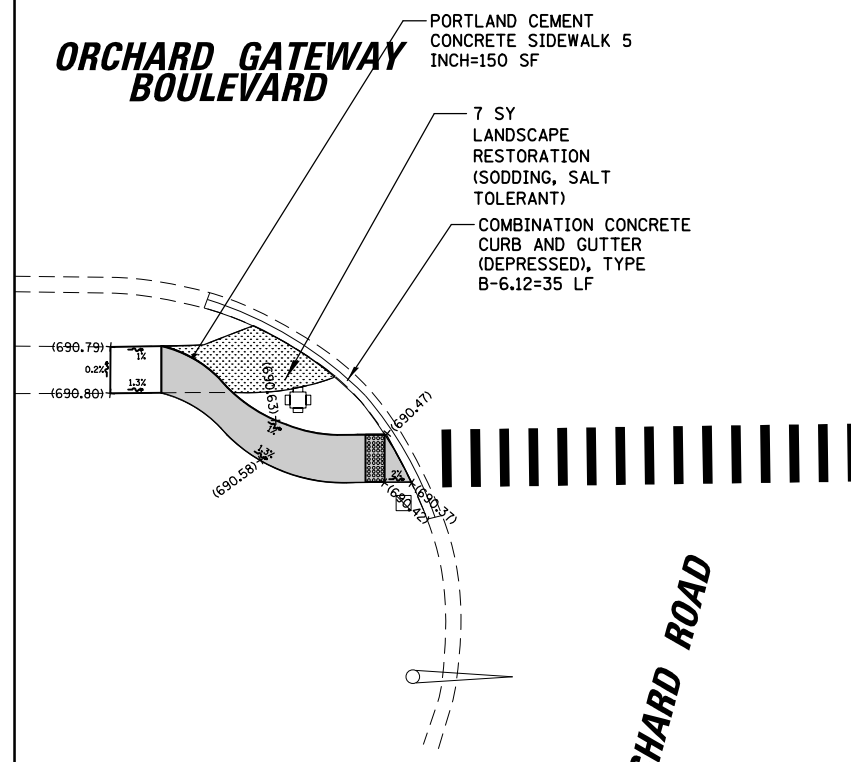
MATCH LINE A-A

MATCH LINE A-A

(XXX.XX') EXISTING
XXX.XX' PROPOSED

SHADING INDICATES
TURN POINT OR
TILES <2%

ORCHARD GATEWAY BOULEVARD



ORCHARD ROAD

PROPOSED IMPROVEMENTS

MODIFIED URETHANE PAVEMENT MARKING LINE - 410 LF
CROSSWALK (WHITE, 12" WIDE BARS/24" SPACING)

MODIFIED URETHANE PAVEMENT MARKING LINE 24"=60 LF

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH=610 SF

COMBINATION CONCRETE CURB AND GUTTER (DEPRESSED), TYPE B-6.12=15 LF

MATCH LINE B-B

MODIFIED URETHANE PAVEMENT MARKING LINE - 135 LF
CROSSWALK (WHITE, 12" WIDE BARS/24" SPACING)

COMBINATION CONCRETE CURB AND GUTTER (DEPRESSED), TYPE B-6.12=40 LF

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH=140 SF
4 SY LANDSCAPE RESTORATION (SODDING, SALT TOLERANT)

MATCH LINE B-B

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbeldf\t\Kane County\120523\PROJ120523-09.sht		DRAWN - JEH	REVISED -
PLOT SCALE = 20'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

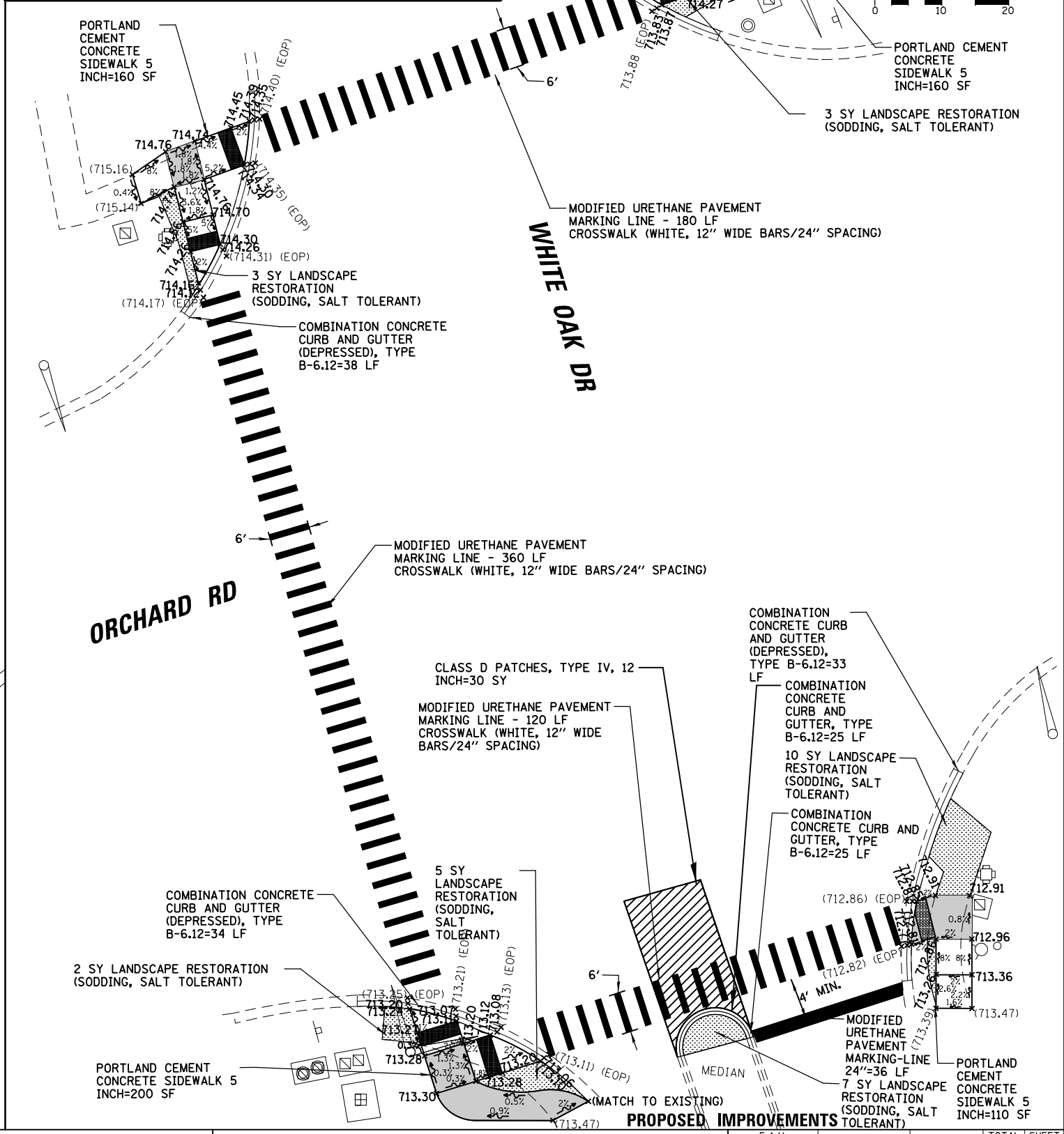
**KANE COUNTY HSIP
ORCHARD ROAD AND ORCHARD GATEWAY BOULEVARD
EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	34
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: 20' SHEET NO. 34 OF 172 SHEETS STA. TO STA.

(XXX.XX') EXISTING
XXX.XX' PROPOSED

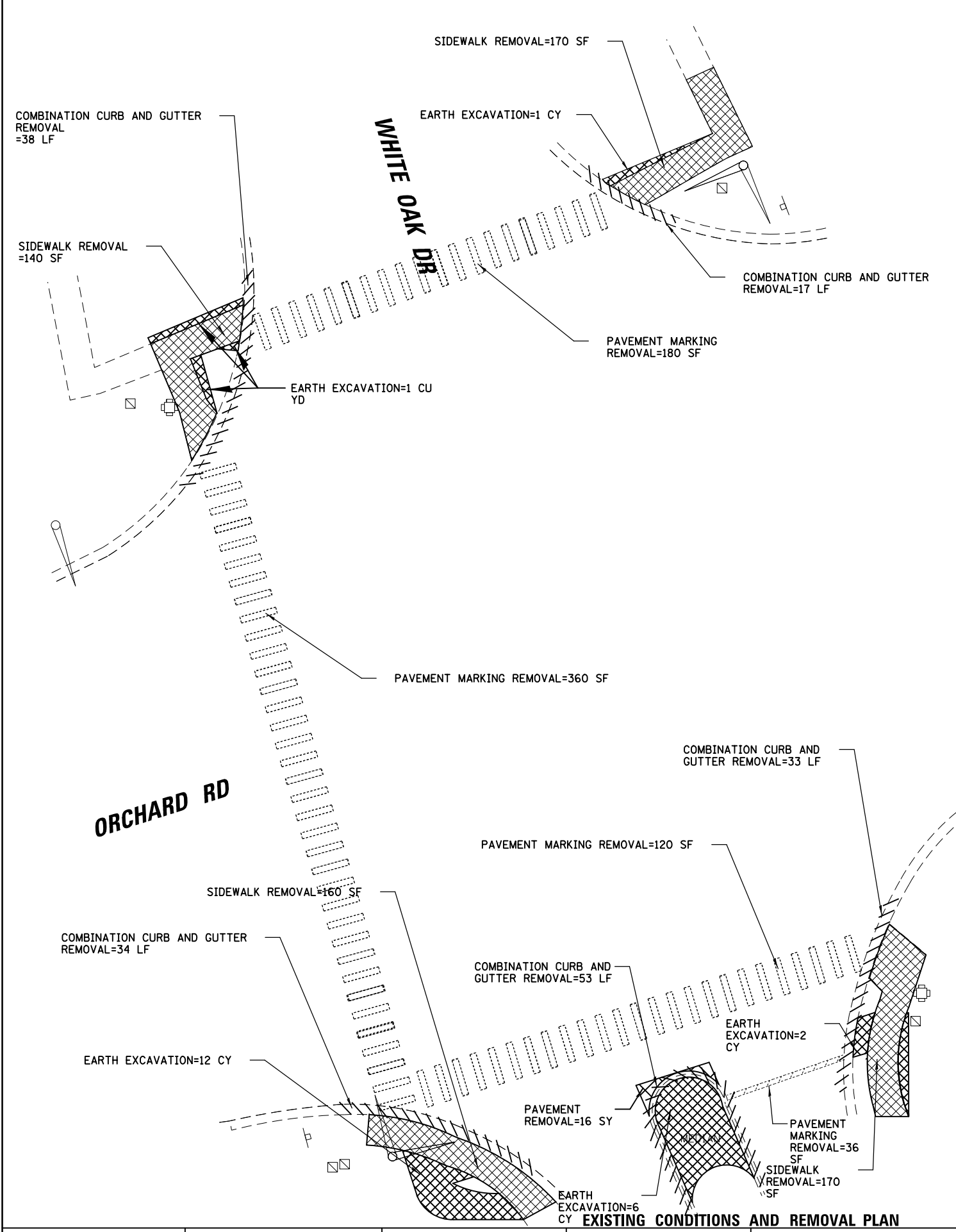
SHADING INDICATES
TURN POINT OR
TILES <2%



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	35

CONTRACT NO. _____

ILLINOIS FED. AID PROJECT



DESIGNED	REVISOR	DATE
JEH		12/14/16
JEH		
LMF		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KANE COUNTY HSIP
ORCHARD ROAD AND WHITE OAK DRIVE
EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS

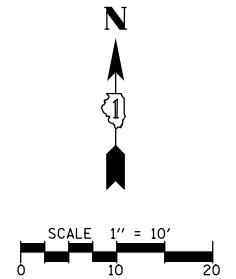
SCALE: 20' SHEET NO. 35 OF 172 SHEETS STA. TO STA.

FILE NAME = \\CBBELSRV1\cbbel\df\t\Kane County\120523\PROJ\120523-10.sht
USER NAME = fbariso
DESIGNED - JEH
DRAWN - JEH
PLOT SCALE = 20'
PLOT DATE = 12/8/2017

(XXX.XX') EXISTING
XXX.XX' PROPOSED

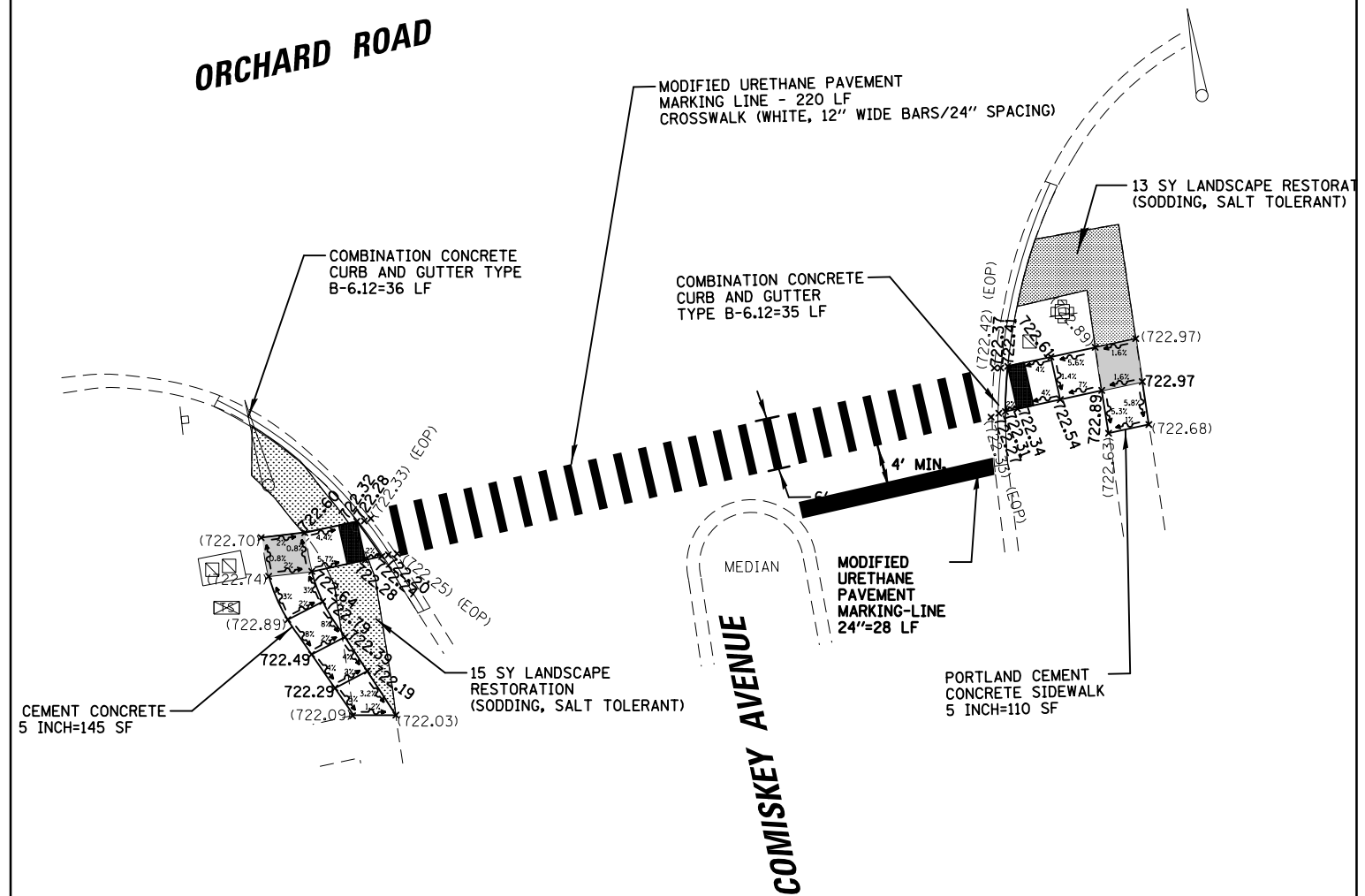
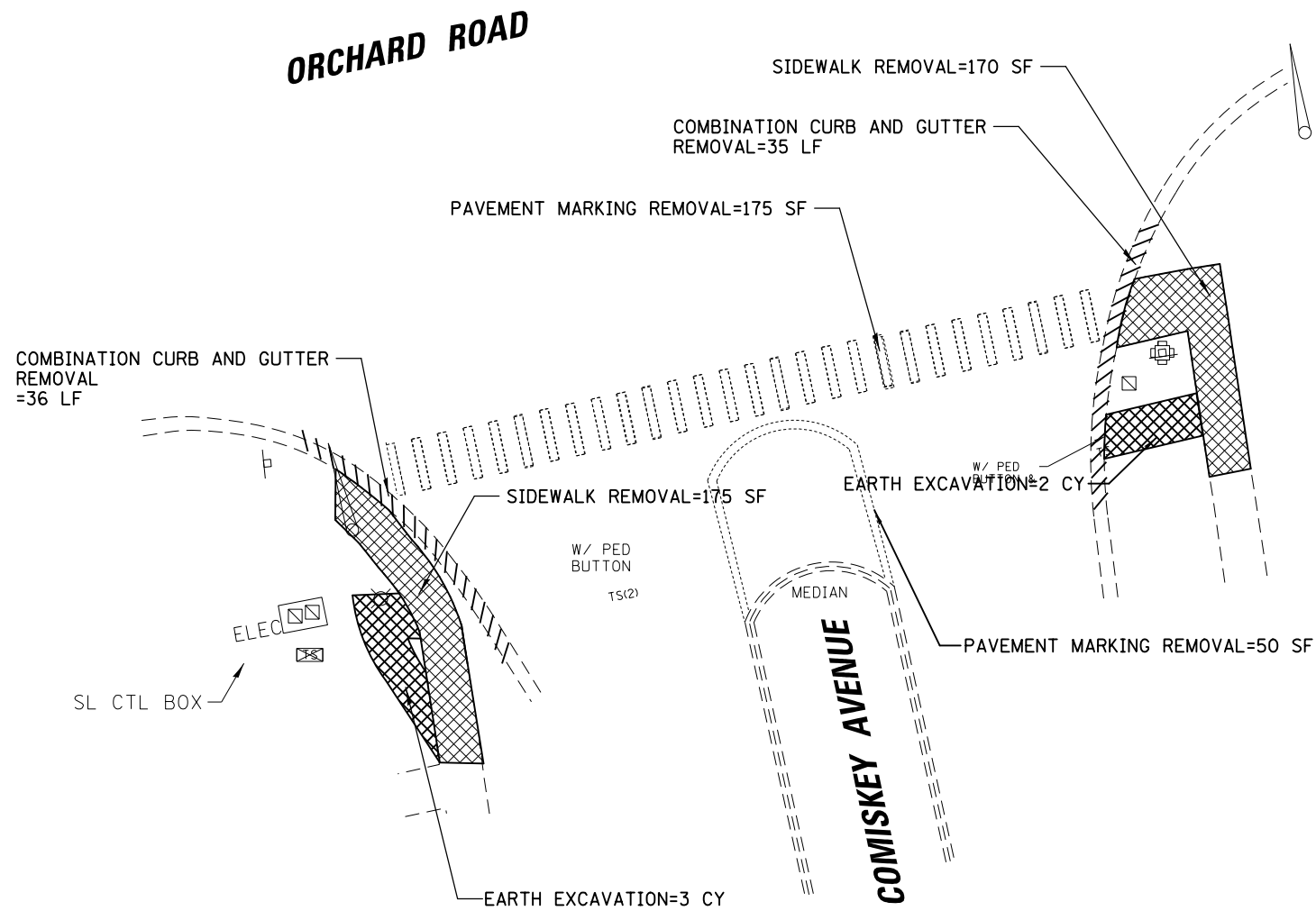


SHADING INDICATES
TURN POINT OR
TILES < 2%



ORCHARD ROAD

ORCHARD ROAD



EXISTING CONDITIONS AND REMOVAL PLAN

PROPOSED IMPROVEMENTS

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRV1\cbbeldf\Kane County\120523\PROJ\120523-11.sht		DRAWN - JEH	REVISED -
	PLOT SCALE = 28'	CHECKED - LMF	REVISED -
	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

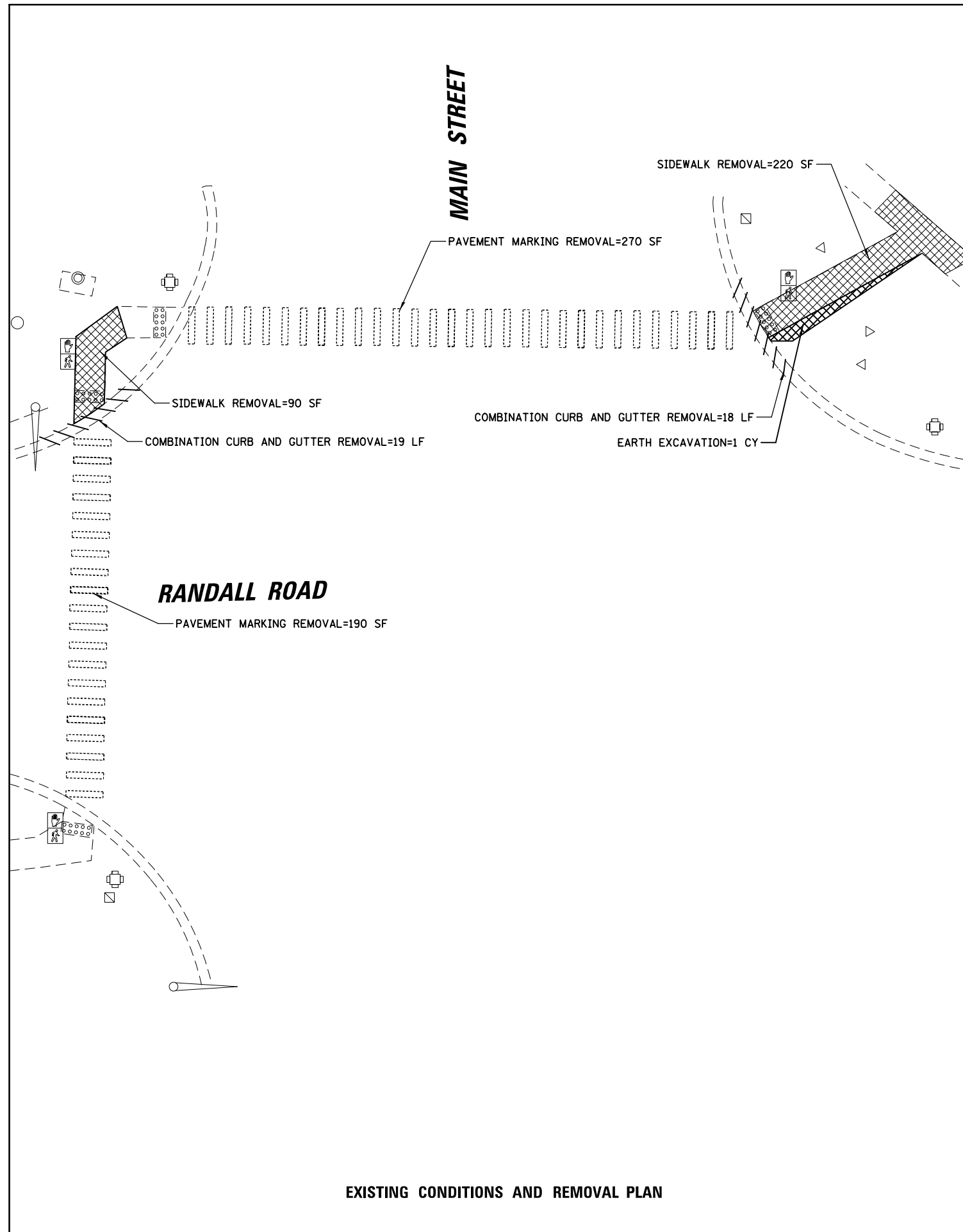
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

KANE COUNTY HSIP ORCHARD ROAD AND COMISKEY AVENUE EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS			
SCALE: 28'	SHEET NO. 36 OF 172 SHEETS	STA. TO STA.	

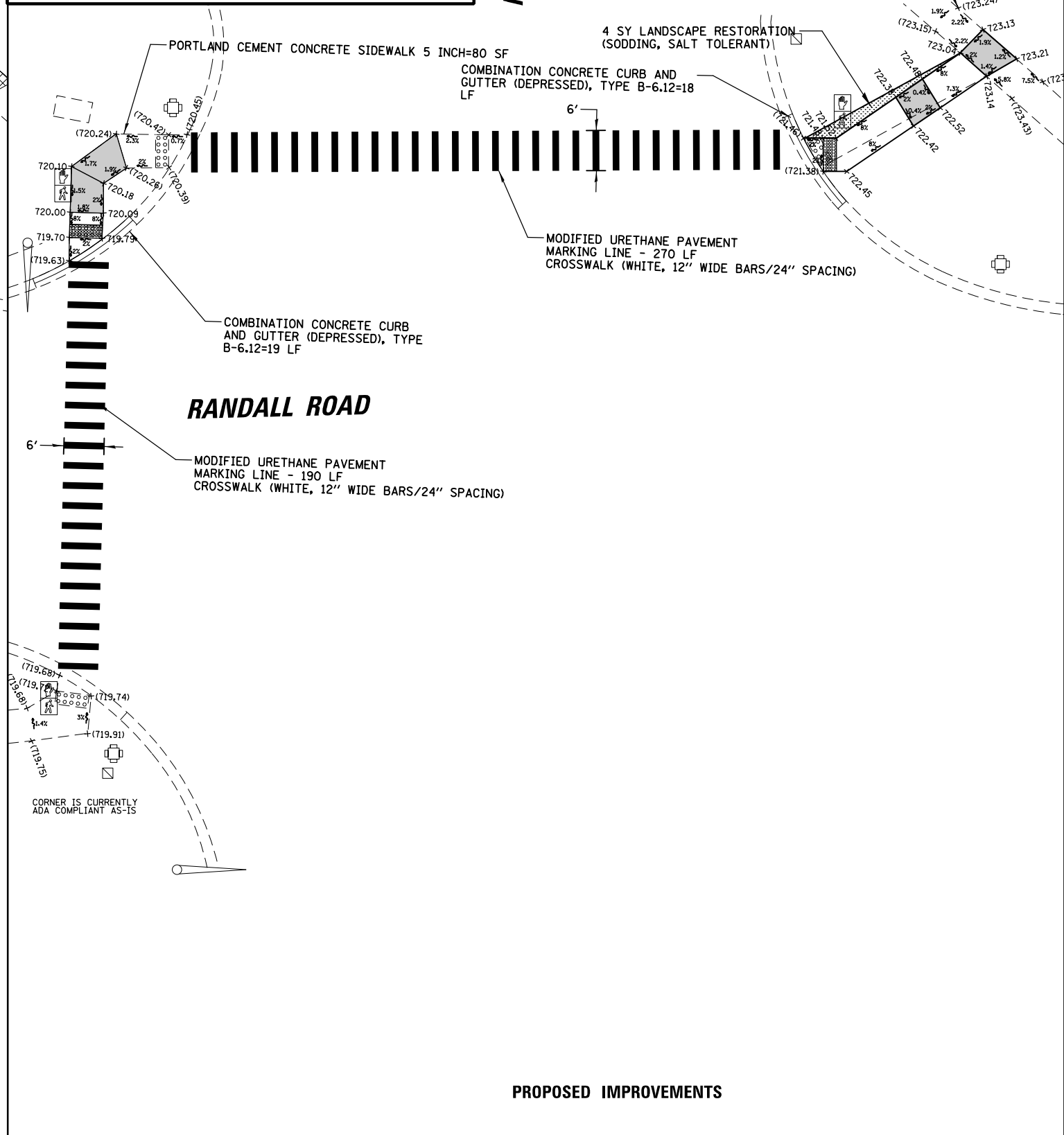
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	36
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
XXX.XX' PROPOSED

SHADING INDICATES
TURN POINT OR
TILES <2%



EXISTING CONDITIONS AND REMOVAL PLAN



PROPOSED IMPROVEMENTS

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRV1\cbbel\df\Kane County\120523\PROJ\120523-12.sht	3\Civil\PROJ\120523-12.sht	DRAWN - JEH	REVISED -
PLOT SCALE = 28'		CHECKED - LMF	REVISED -
PLOT DATE = 12/8/2017		DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KANE COUNTY HSIP
RANDALL ROAD AND MAIN STREET
EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS

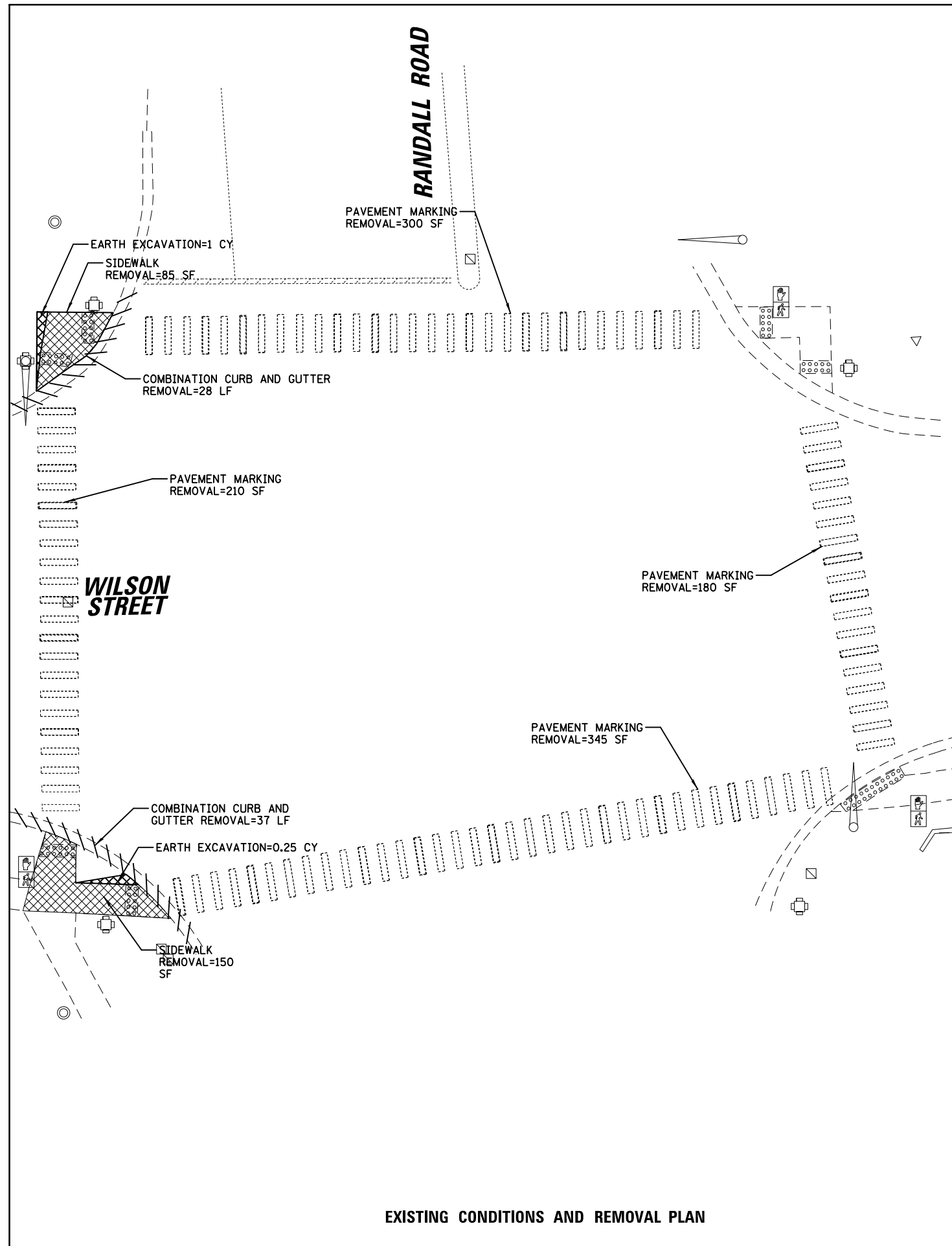
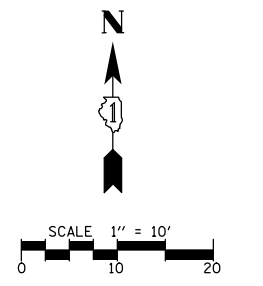
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	37
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: 28' SHEET NO. 37 OF 172 SHEETS STA. TO STA.

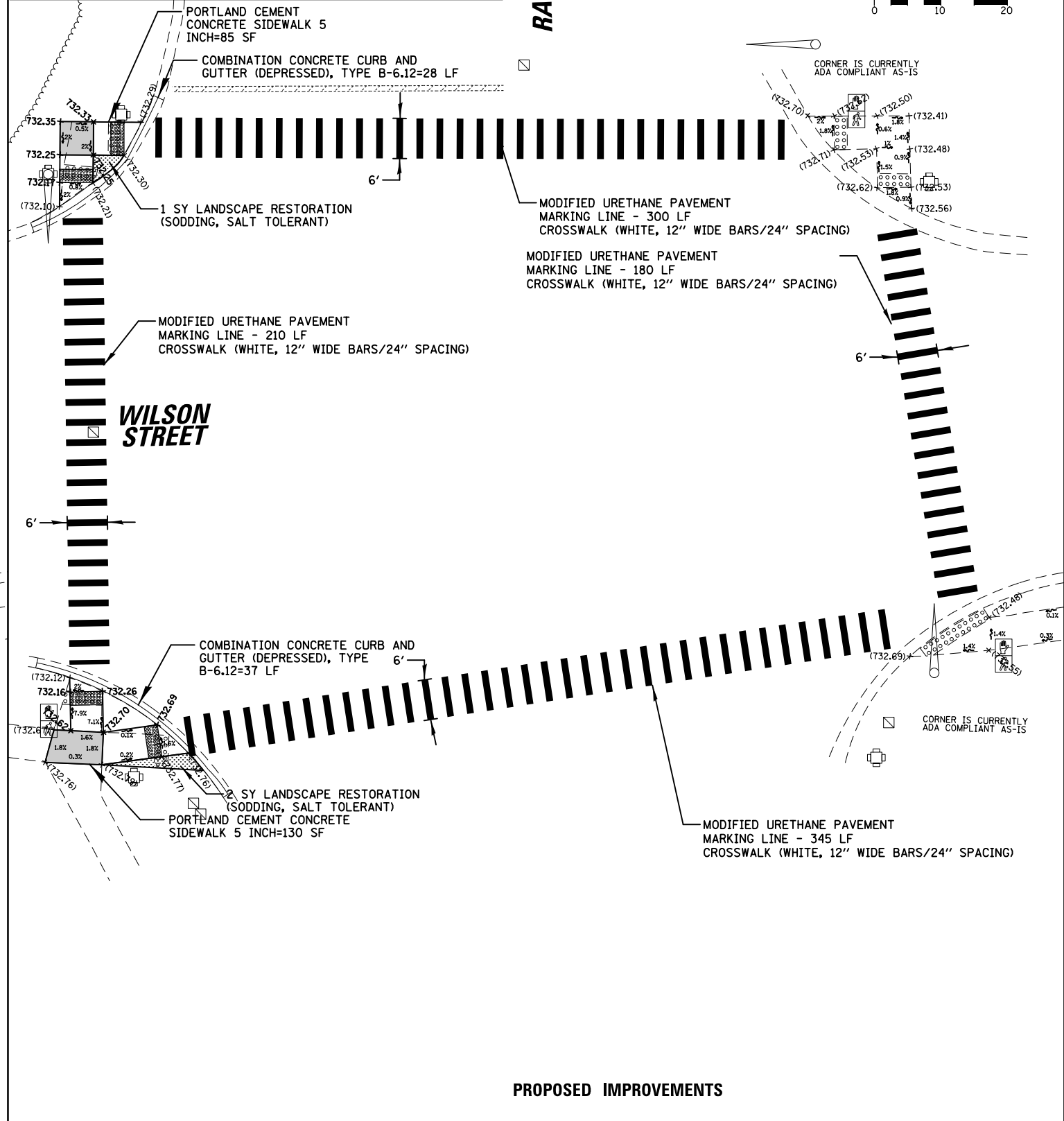
(XXX.XX') EXISTING
XXX.XX' PROPOSED

SHADING INDICATES
TURN POINT OR
TILES <2%

RANDALL ROAD



EXISTING CONDITIONS AND REMOVAL PLAN



PROPOSED IMPROVEMENTS

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbeldf\Kane County\120523\Civil\PROJ\120523-13.sht		DRAWN - JEH	REVISED -
	PLOT SCALE = 20'	CHECKED - LMF	REVISED -
	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

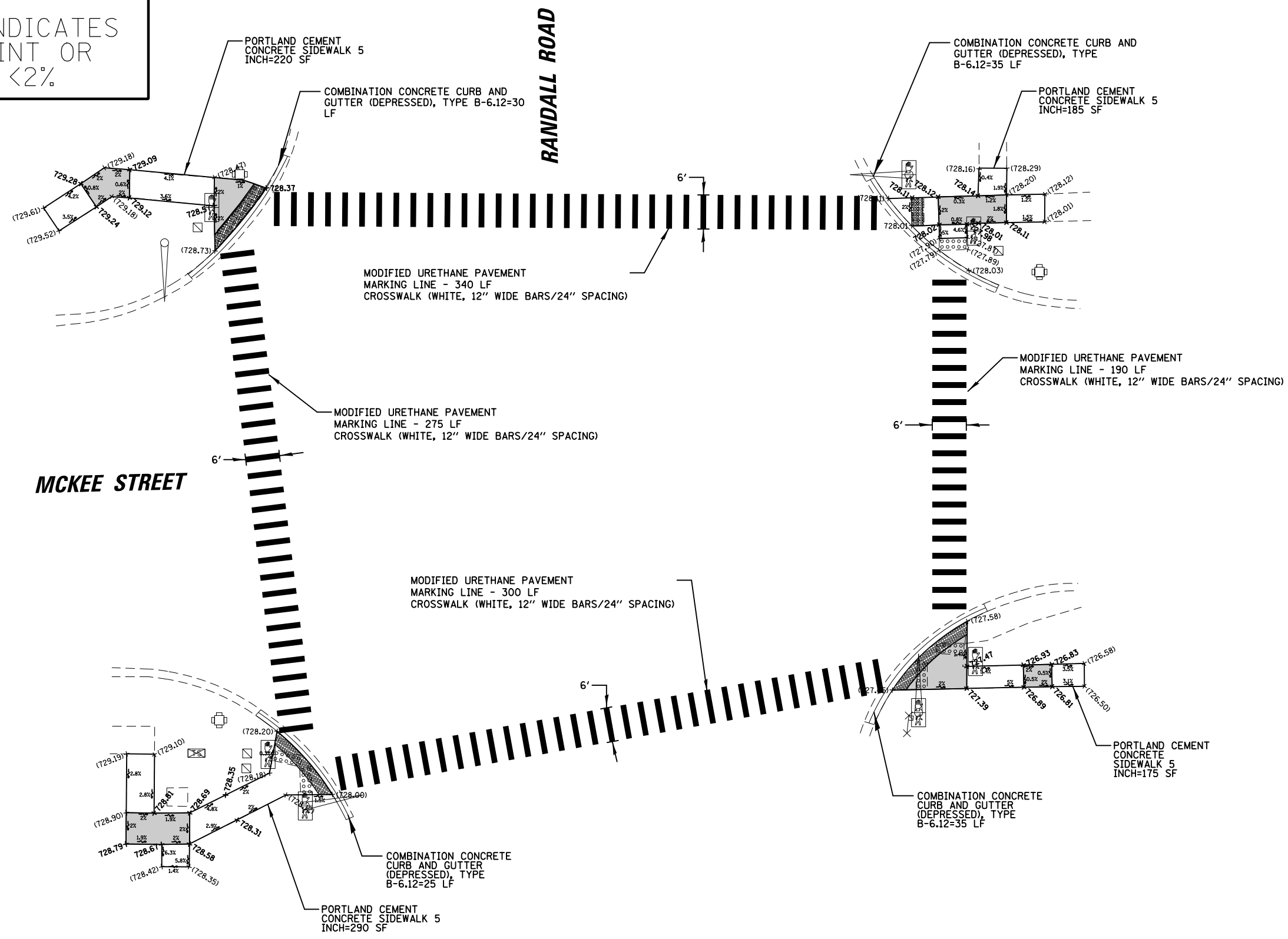
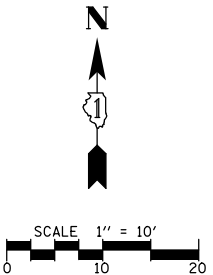
KANE COUNTY HSIP
RANDALL ROAD AND WILSON STREET
EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	38
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: 20' SHEET NO. 38 OF 172 SHEETS STA. TO STA.

(XXX.XX') EXISTING
 XXX.XX' PROPOSED

SHADING INDICATES
 TURN POINT OR
 TILES <2%



FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbel\df\t\Kane County\120523\PROJ\120523-14.sht		DRAWN - JEH	REVISED -
	PLOT SCALE = 20'	CHECKED - LMF	REVISED -
	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

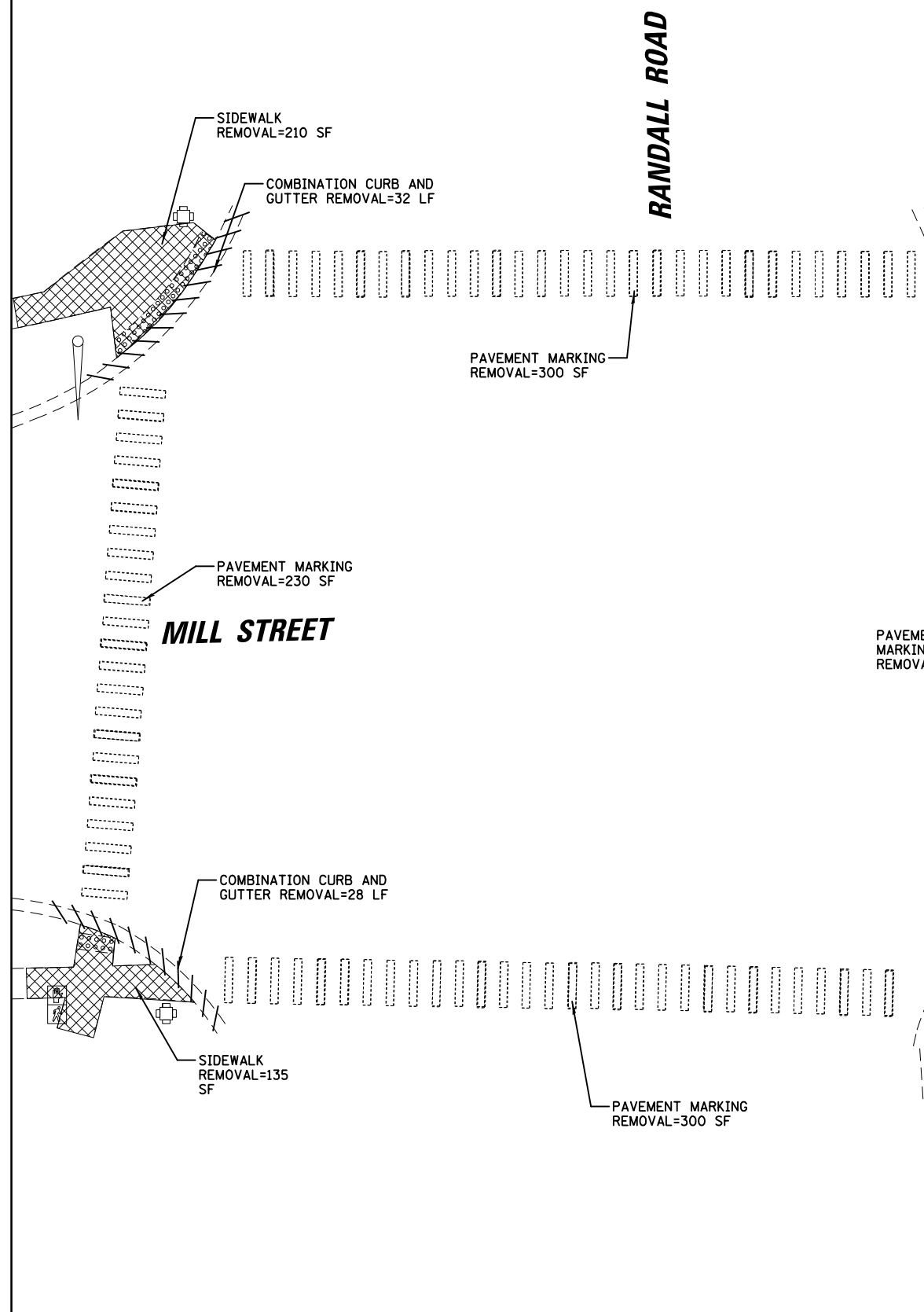
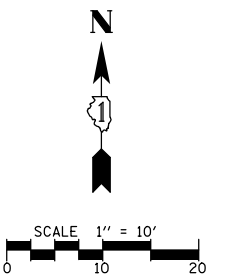
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

KANE COUNTY HSIP RANDALL ROAD AND MCKEE STREET PROPOSED IMPROVEMENTS			
SCALE: 20'	SHEET NO. 39 OF 172 SHEETS	STA.	TO STA.

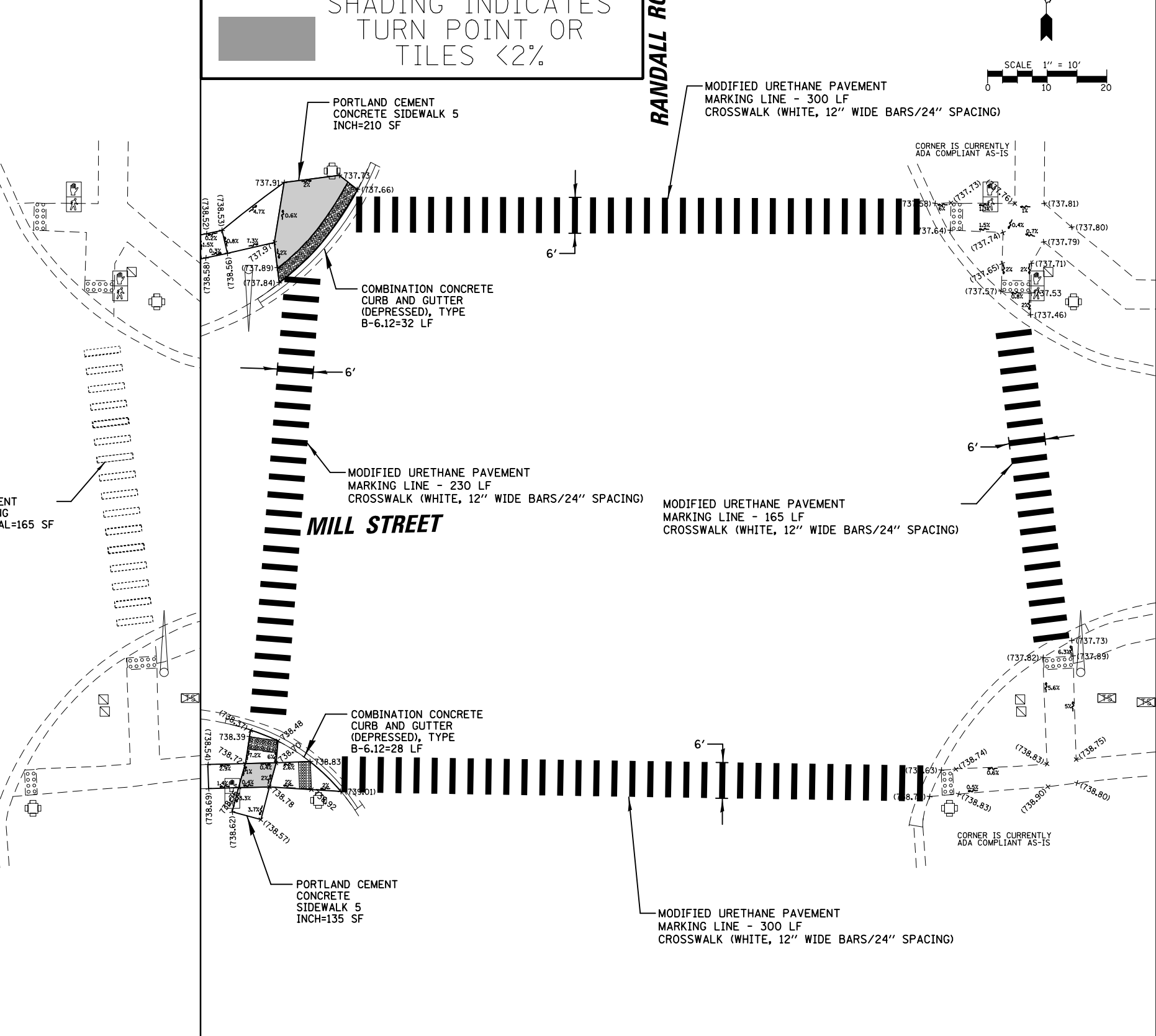
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	39
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

(XXX.XX') EXISTING
XXX.XX' PROPOSED

SHADING INDICATES
TURN POINT OR
TILES <2%



EXISTING CONDITIONS AND REMOVAL PLAN



PROPOSED IMPROVEMENTS

FILE NAME =	USER NAME = fbariso	DESIGNED - JEH	REVISED -
\\CBBELSRVRI\cbbel\df\t\Kane County\120523\PROJ\120523-15.sht		DRAWN - JEH	REVISED -
	PLOT SCALE = 28'	CHECKED - LMF	REVISED -
	PLOT DATE = 12/8/2017	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KANE COUNTY HSIP
RANDALL ROAD AND MILL STREET
EXISTING CONDITIONS, REMOVAL PLAN AND PROPOSED IMPROVEMENTS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	12-00424-00-SP	KANE	172	40
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: 28' SHEET NO. 40 OF 172 SHEETS STA. TO STA.

TRAFFIC SIGNAL LEGEND

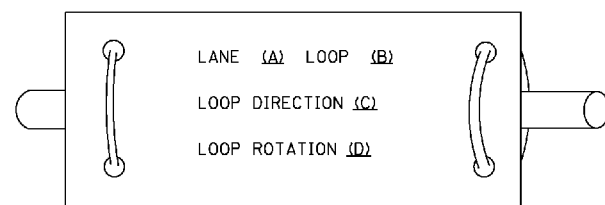
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ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE 1					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

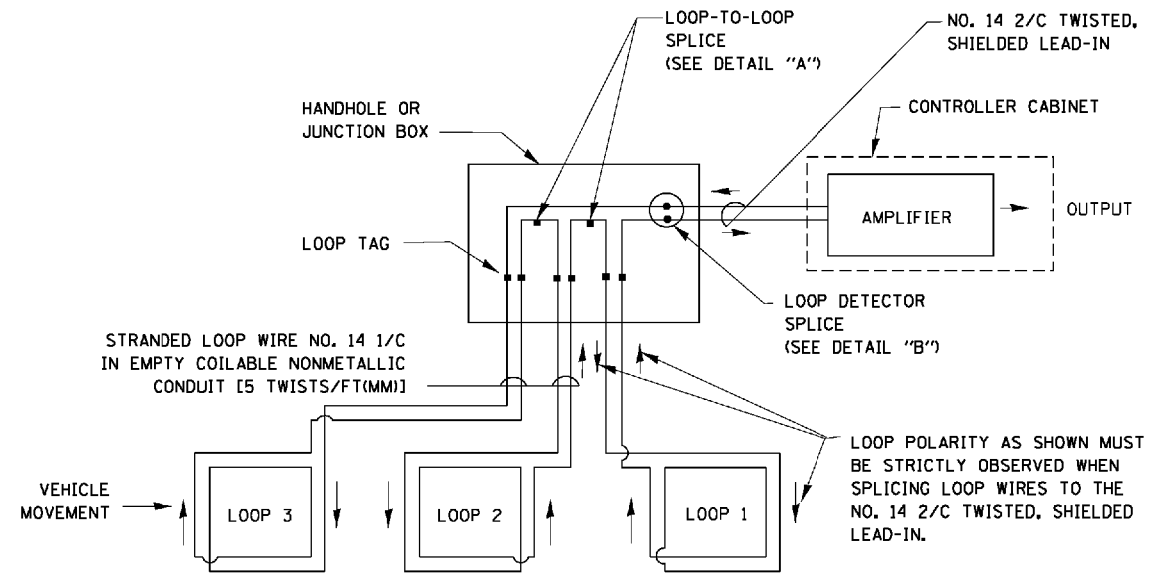
LOOP DETECTOR NOTES

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

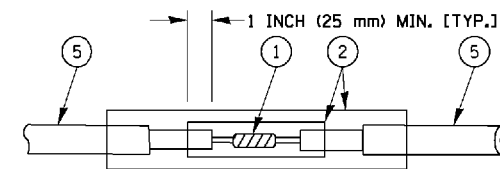


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

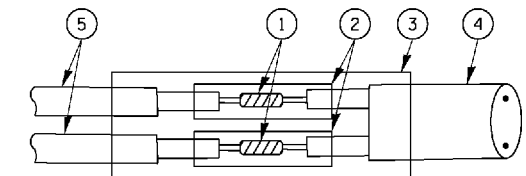


DETECTOR LOOP WIRING SCHEMATIC

- 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.

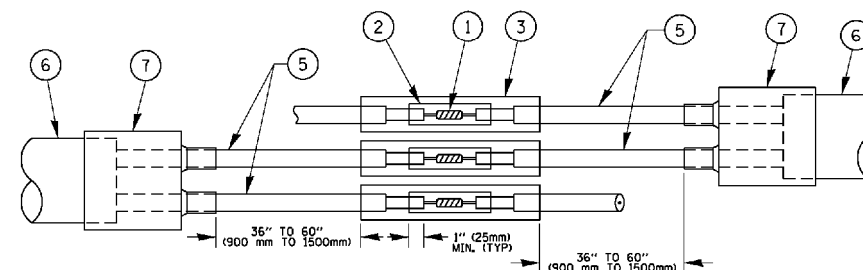


DETAIL "A"
LOOP-TO-LOOP SPLICE

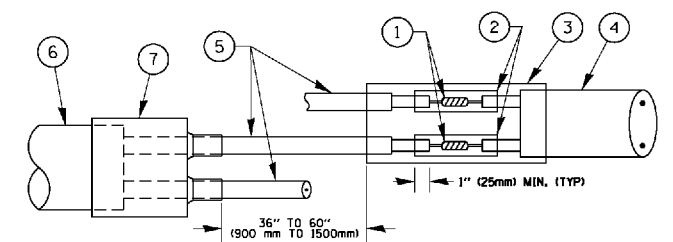


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

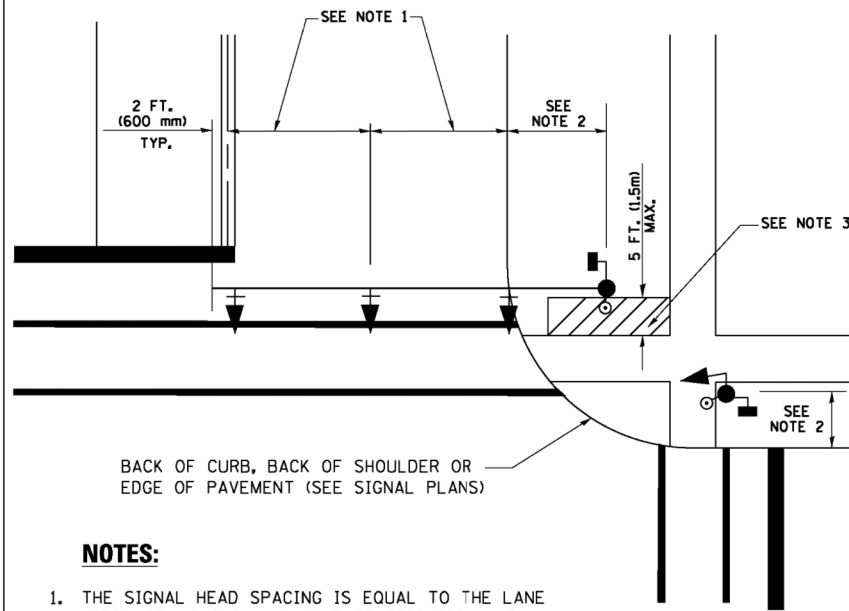
PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = faotemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED - DAD	REVISED -						TS-05		CONTRACT NO.	\$CNO
		DATE - 10-28-09	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

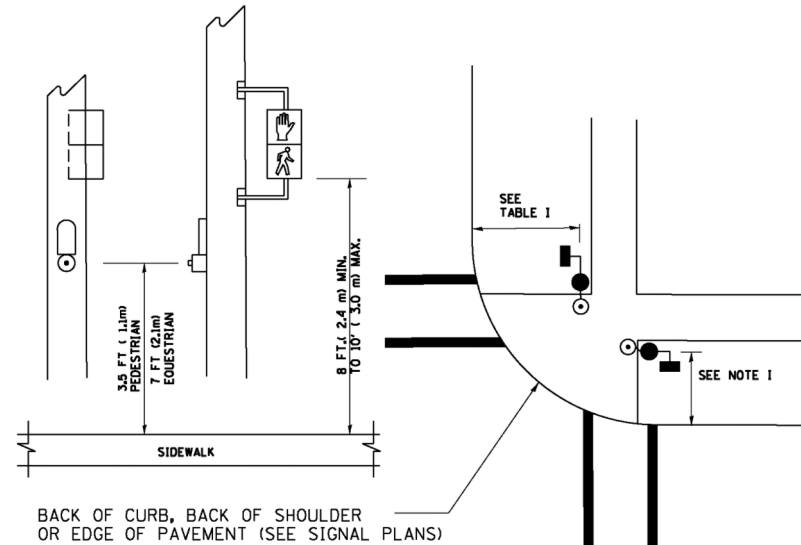
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

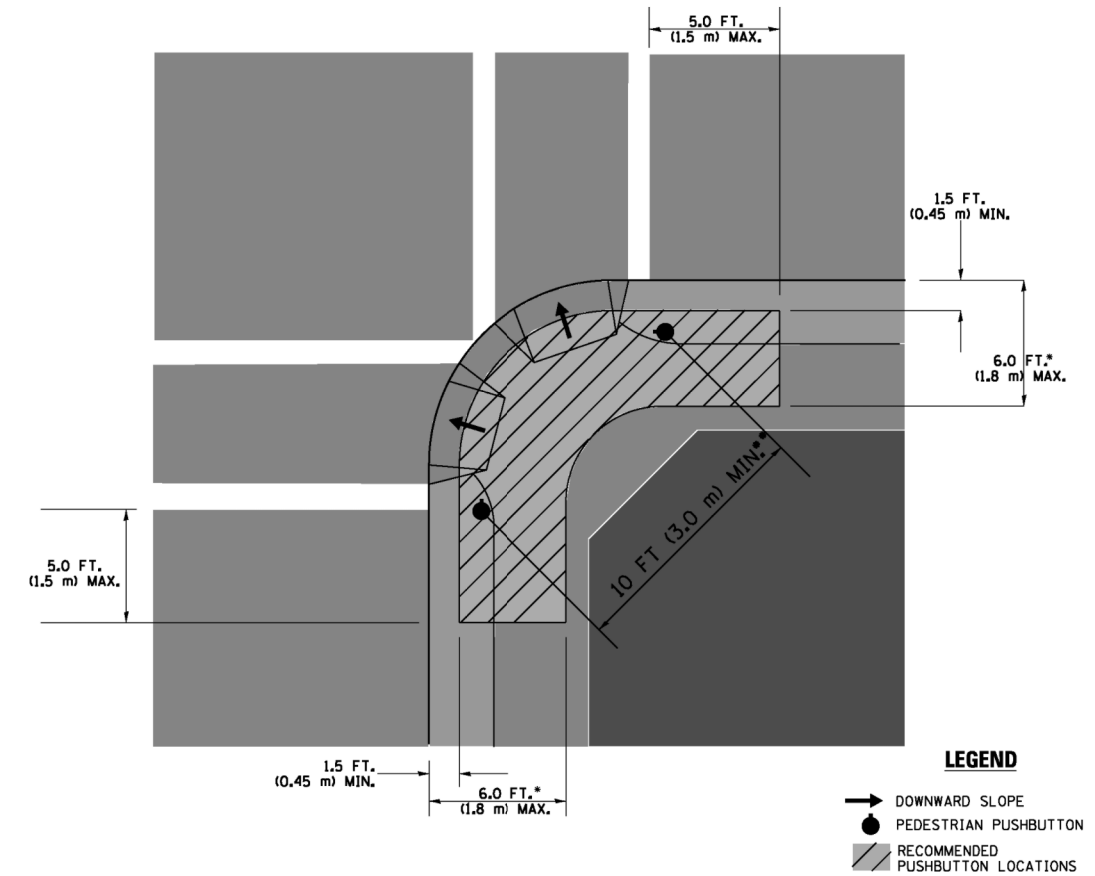
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

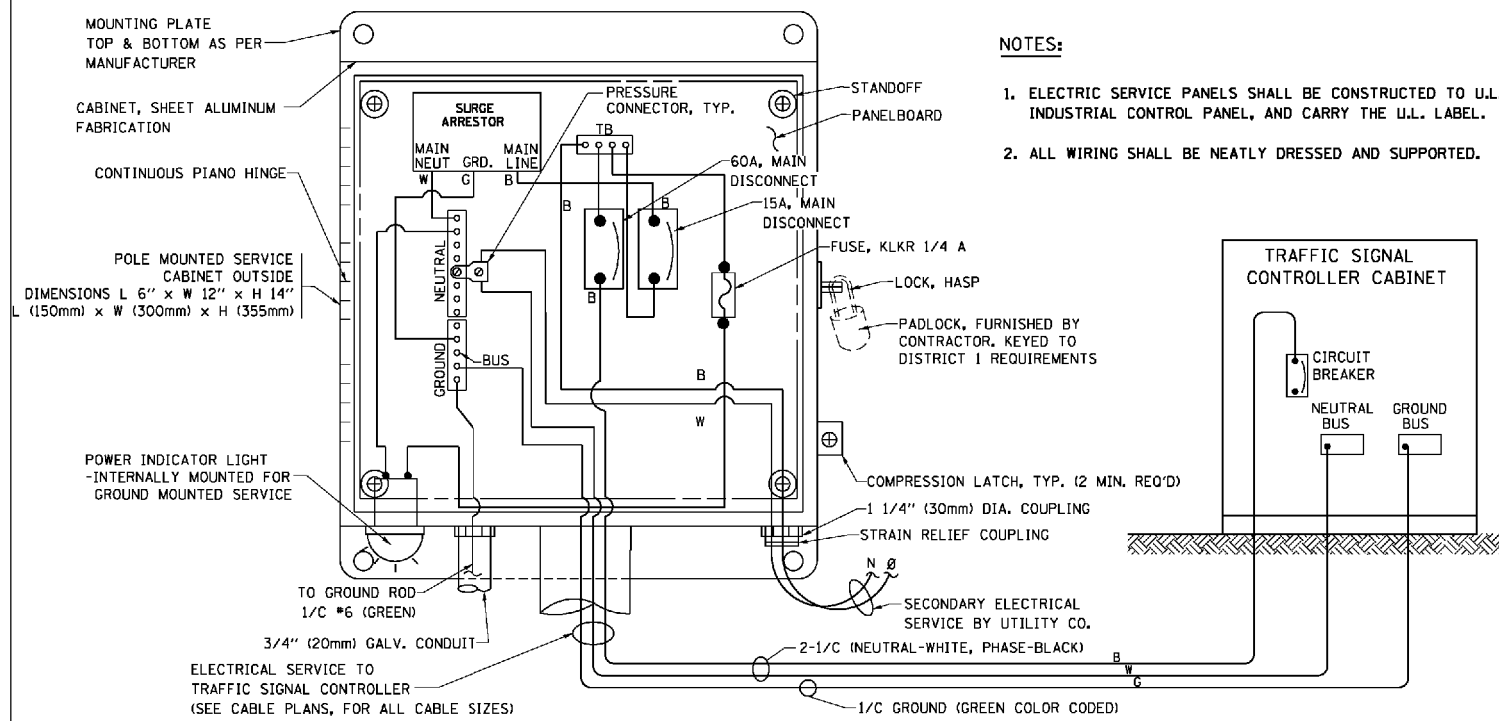
TRAFFIC SIGNAL EQUIPMENT OFFSET

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

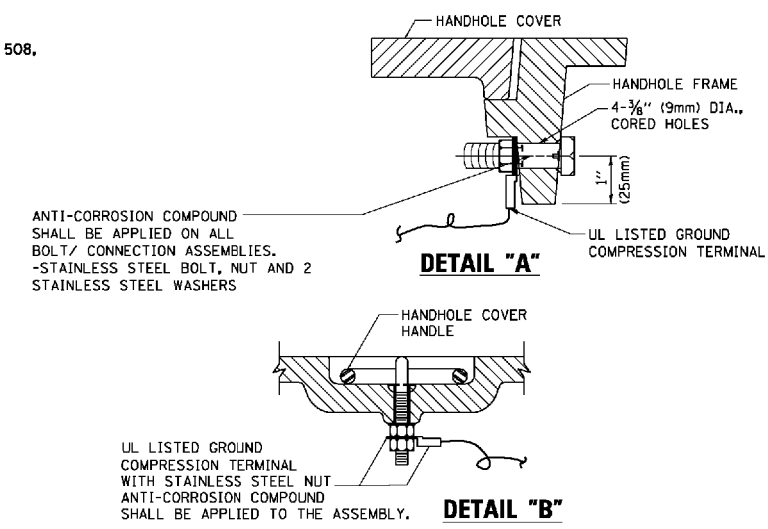
NOTES:

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

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
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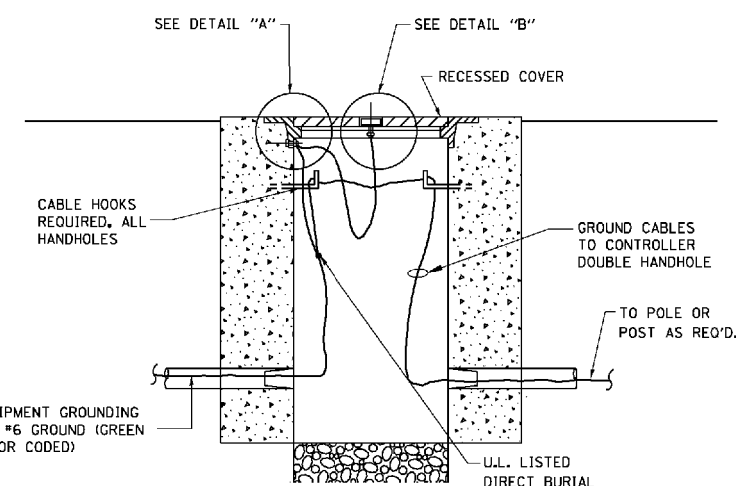


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

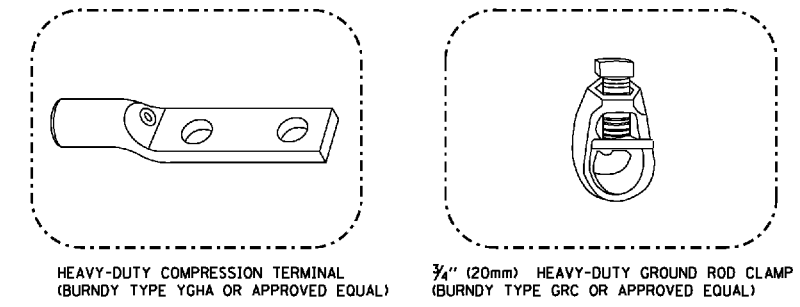


NOTES:
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

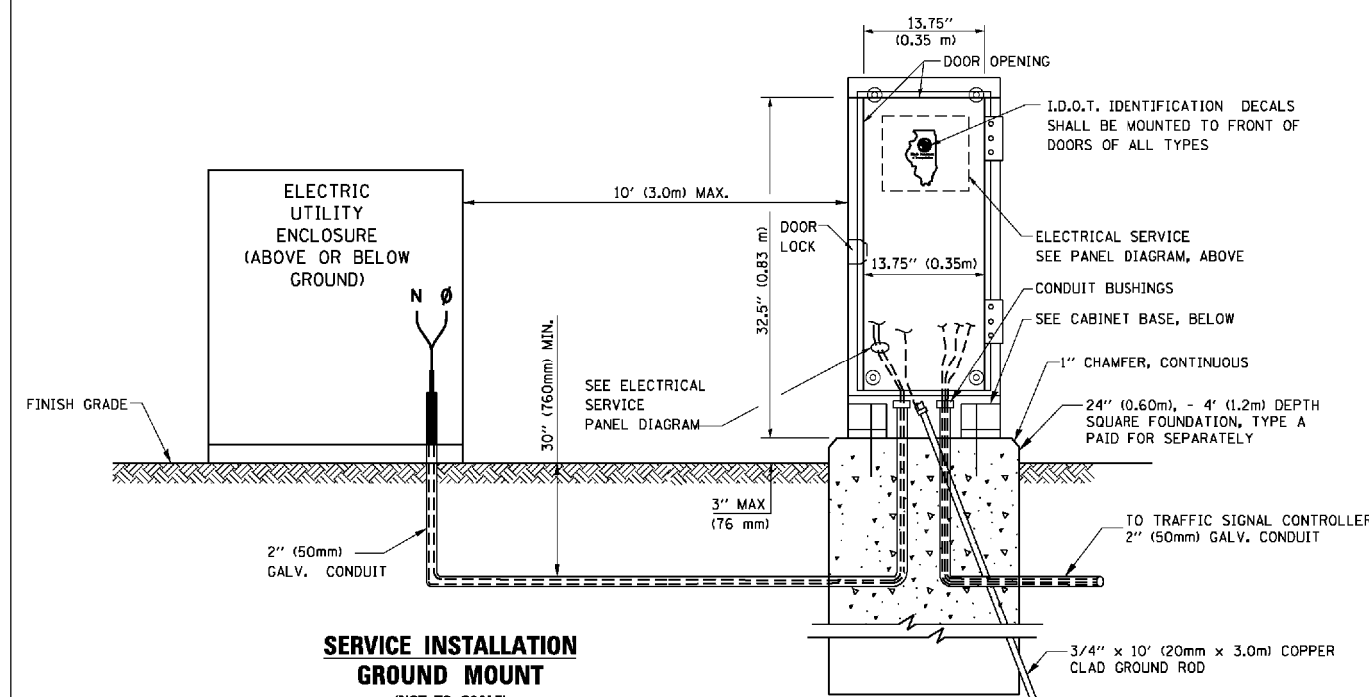


HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

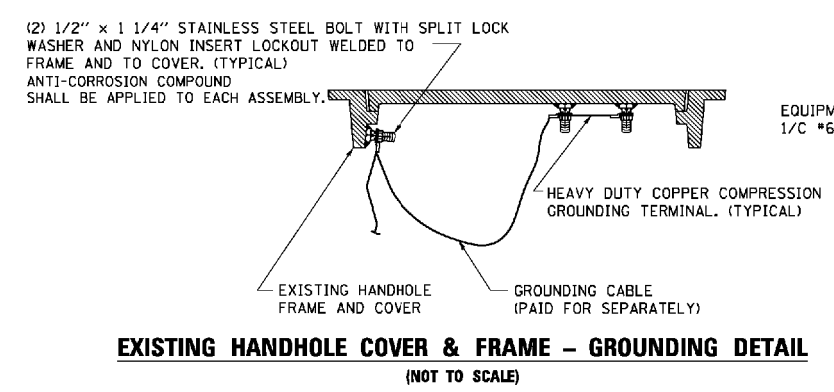


NOTES:

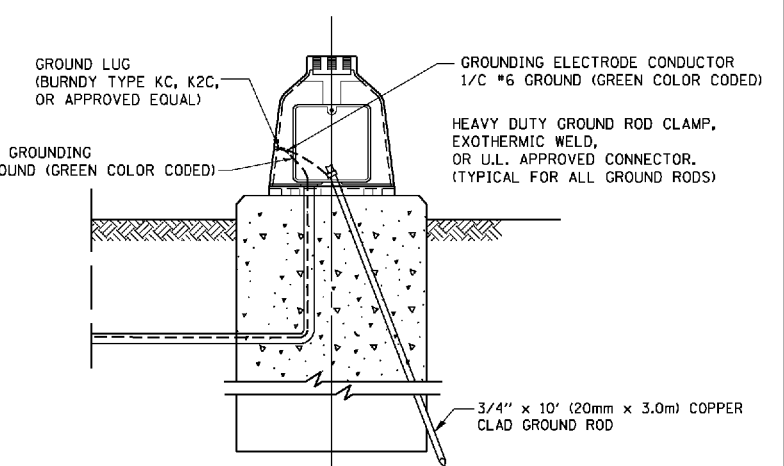
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

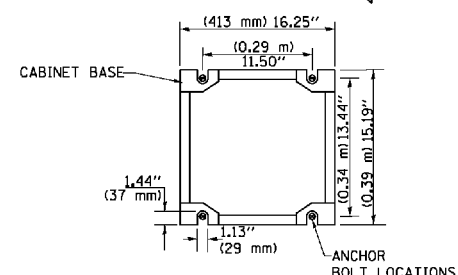


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

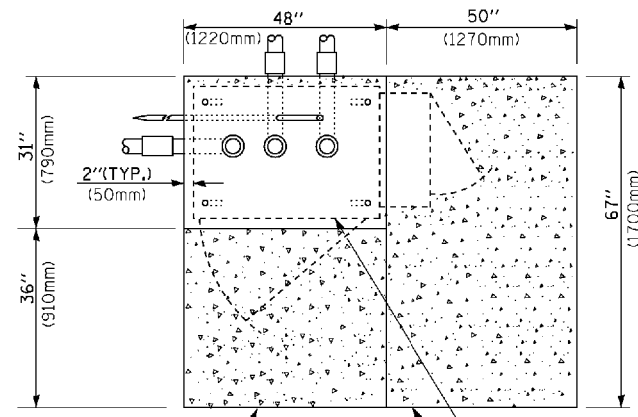


MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)

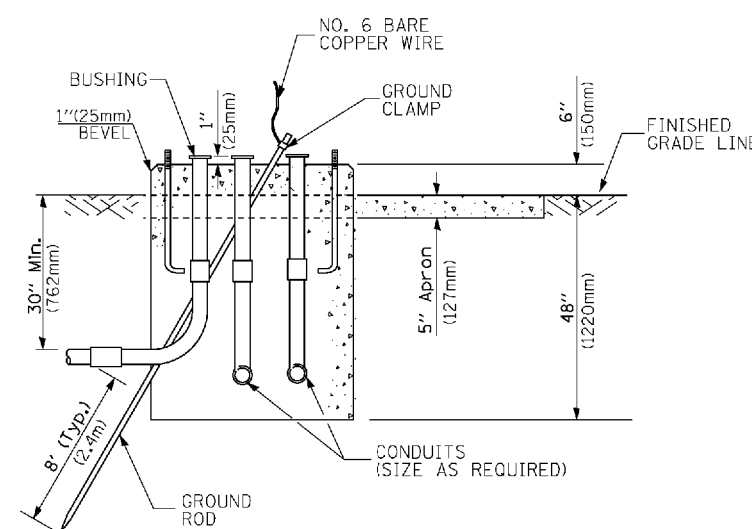
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



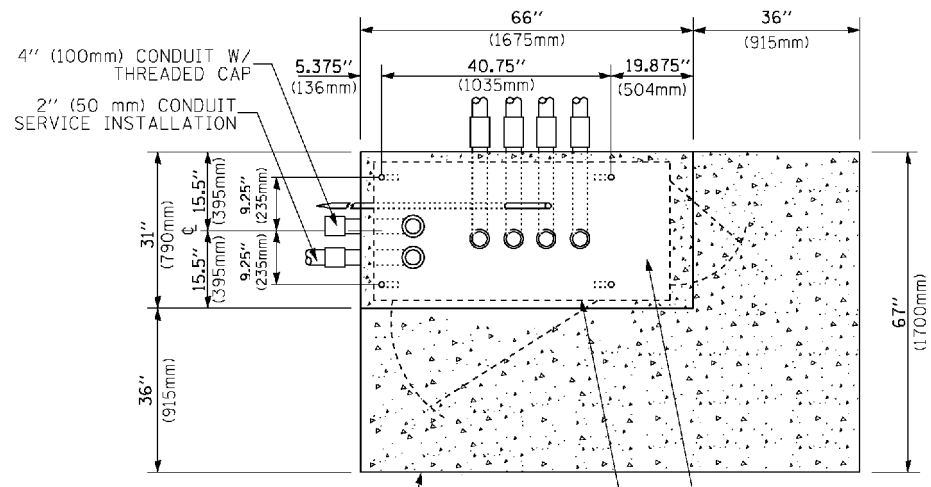
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		DATE - 10-28-09	REVISED -							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



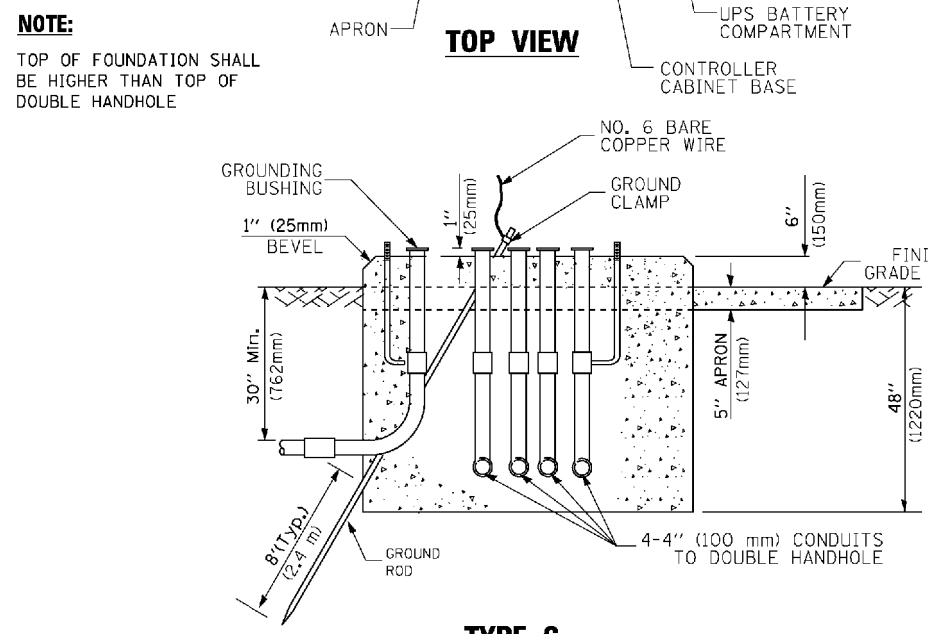
TOP VIEW



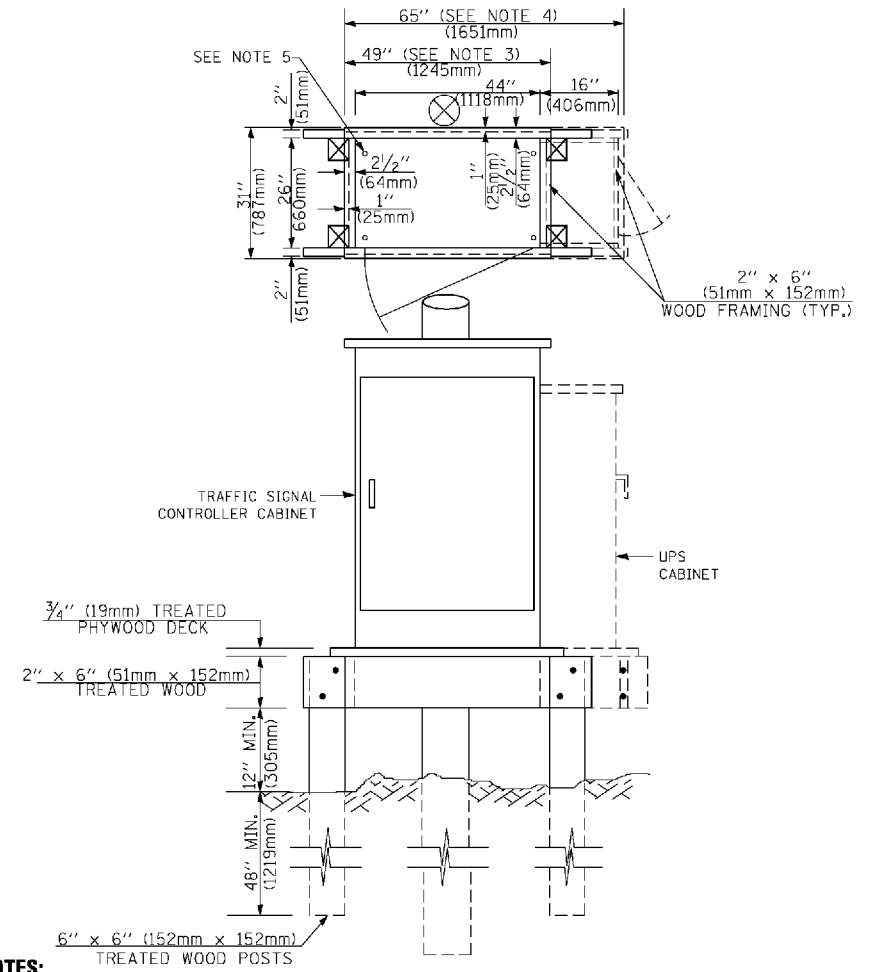
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

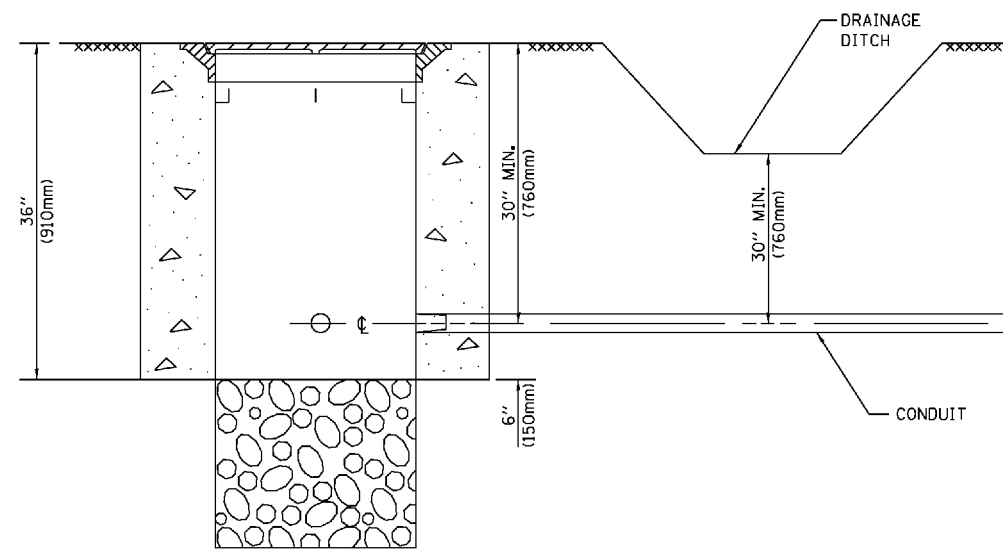
DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	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)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (UCS) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

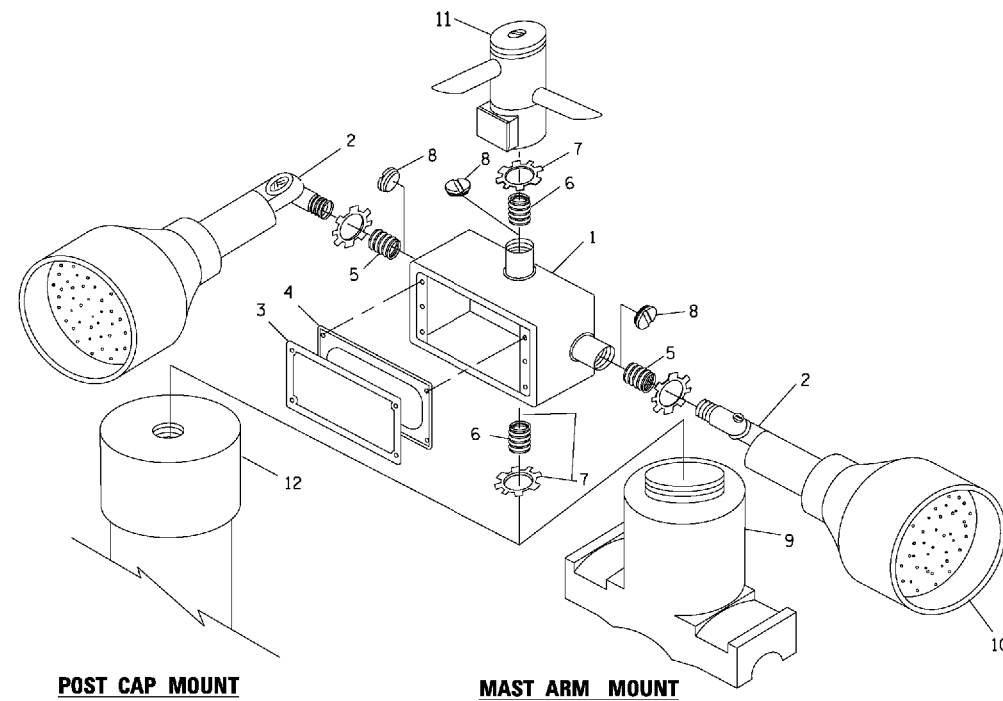
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

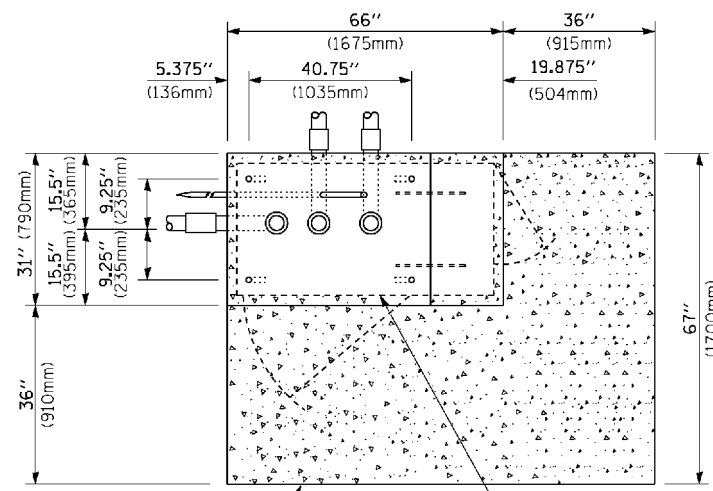
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



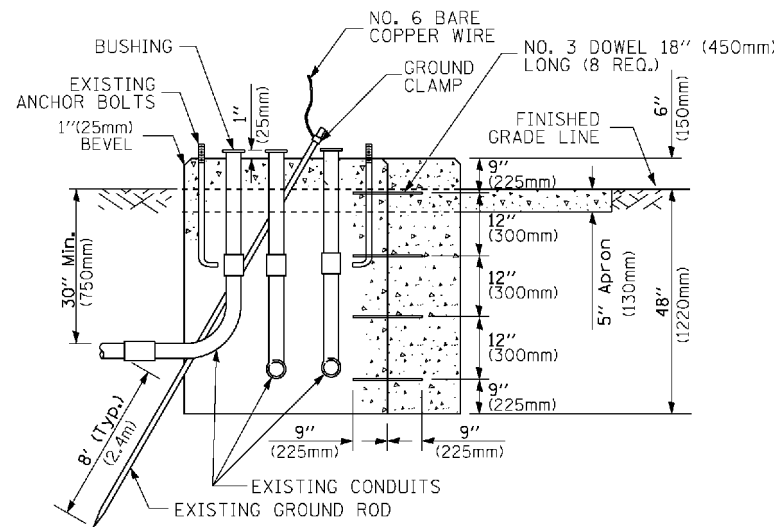
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

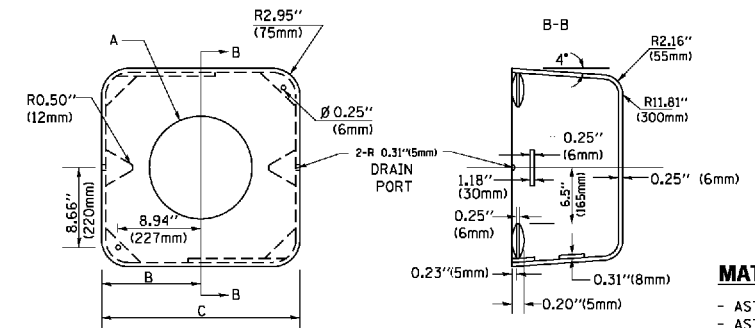


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

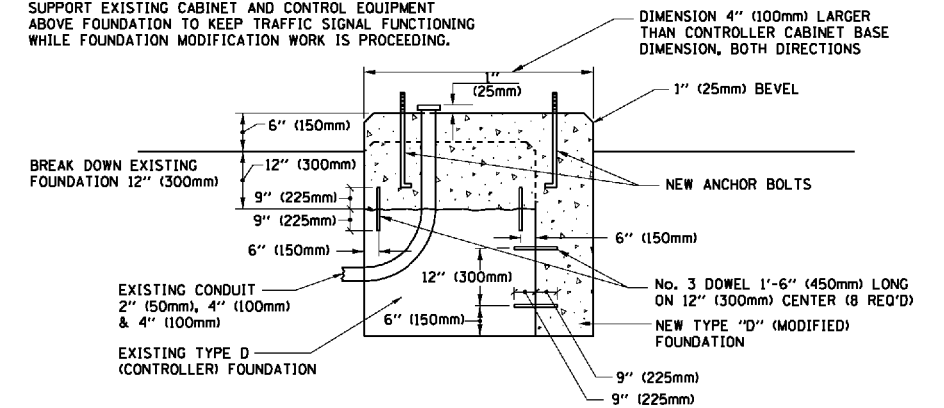
SHROUD

NOTES:

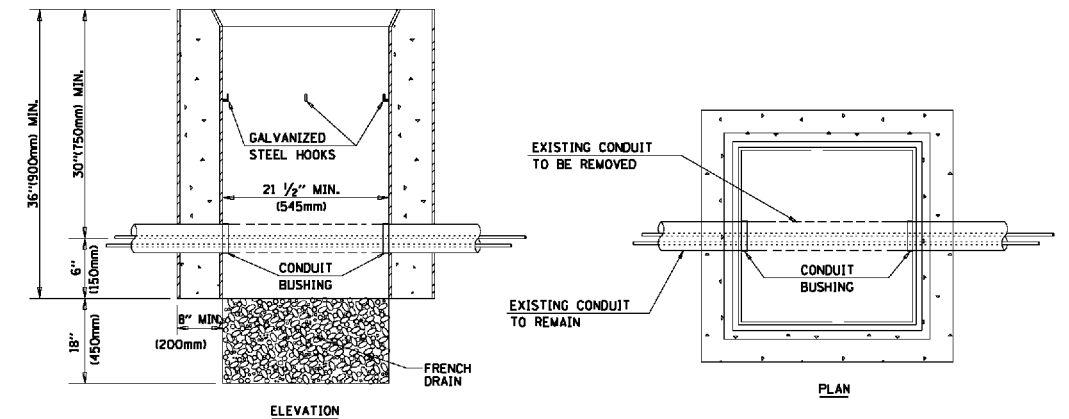
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



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 INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = faotemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\pwwork\pwwork\faotemj\00188315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$rte	\$section	\$county	172	46
	TS-05	CONTRACT NO.		\$CNO
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

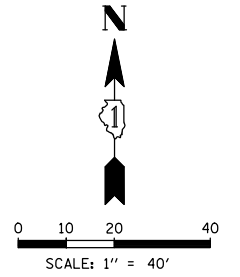
REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 2 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 7 EACH PEDESTRIAN PUSH-BUTTON
- 8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES:

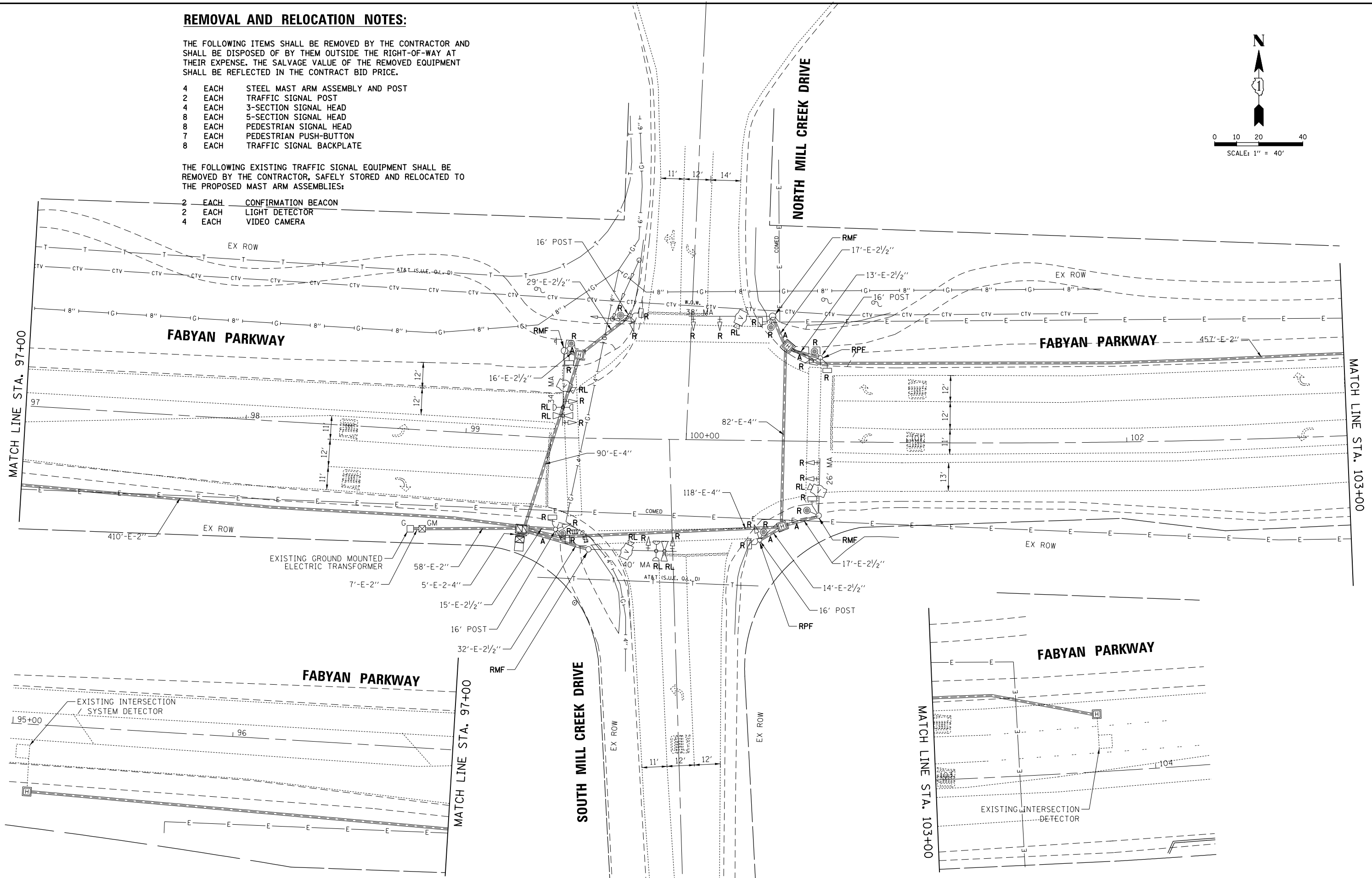
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 4 EACH VIDEO CAMERA



DATE	BY	DATE
	BY	DATE
PLAN	SURVEYED	ALIGNED
	NOTE BOOK	RT. OF WAY CHECKED
PROFILE	GRADES CHECKED	BLM. NOTED
	STRUCTURE NOTATIONS	OK'D

TS SHT NO. 48

CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (630) 923-5500



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
002.Fabyan-MillCreek 01.REM		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

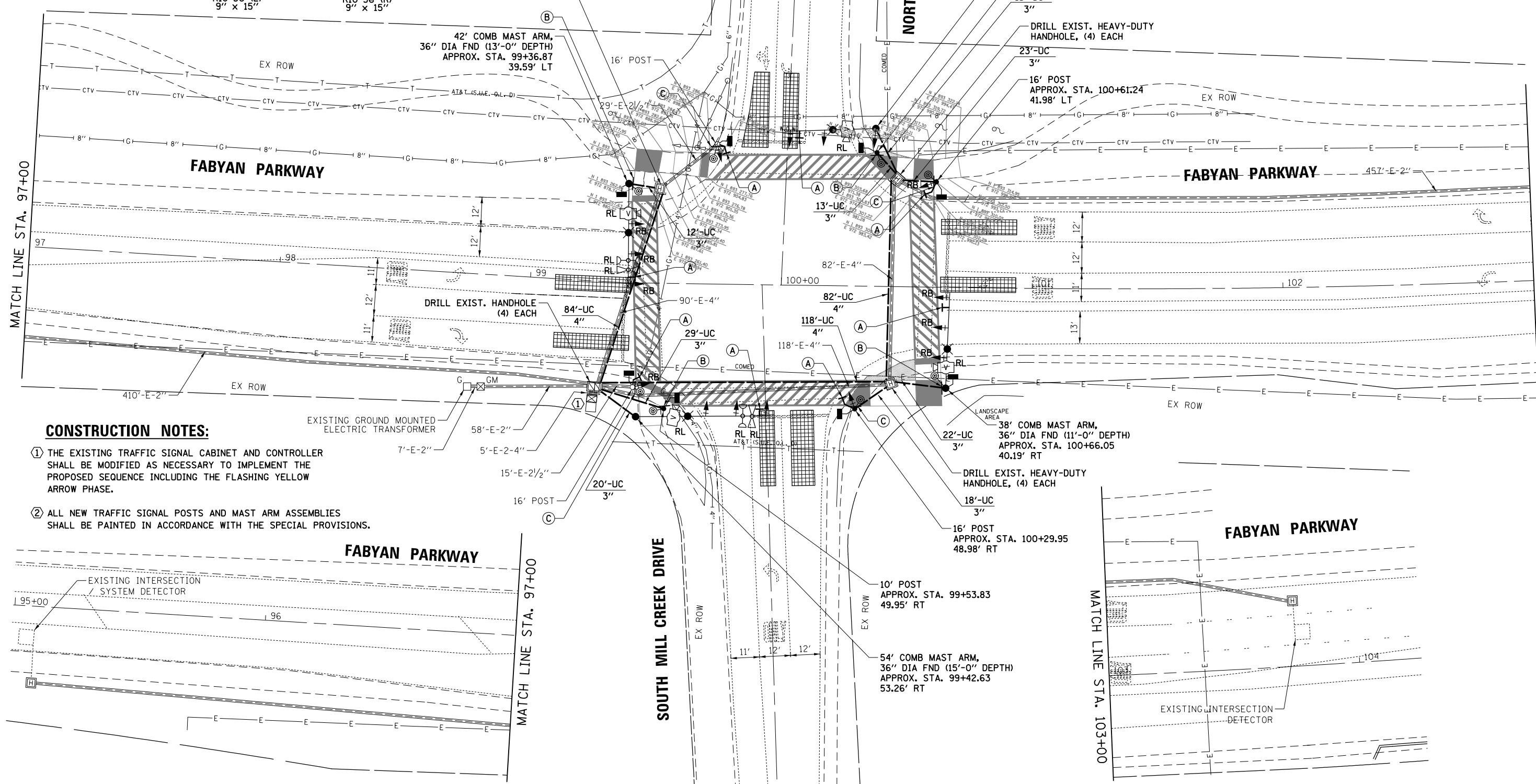
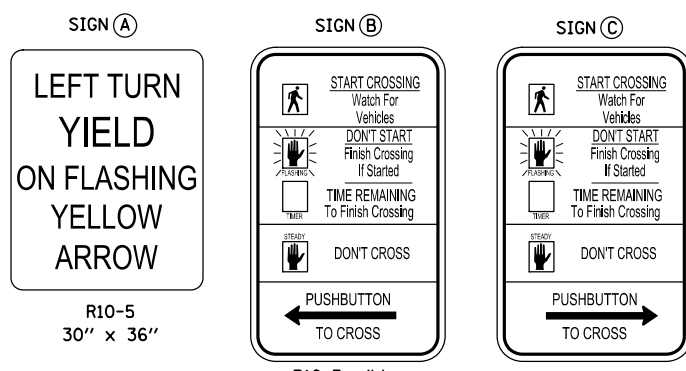
**TRAFFIC SIGNAL REMOVAL PLAN
 FABYAN PARKWAY AND MILL CREEK DRIVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	48
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

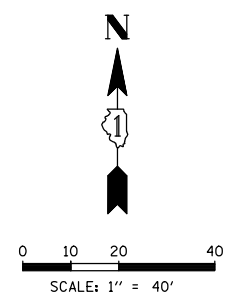
SCALE: SHEET NO. OF SHEETS STA. TO STA.

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 PLAN: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK: _____
 NO. _____
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PROFILE: _____ ELEM. NOTED: _____
 NOTE BOOK: _____ STRUCTURE NOTATIONS: _____
 NO. _____

TS SHT NO. 49



- CONSTRUCTION NOTES:**
- THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
 - ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



FILE NAME 002.Fabyan-MillCreek 02.MDD	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
FABYAN PARKWAY AND MILL CREEK DRIVE**

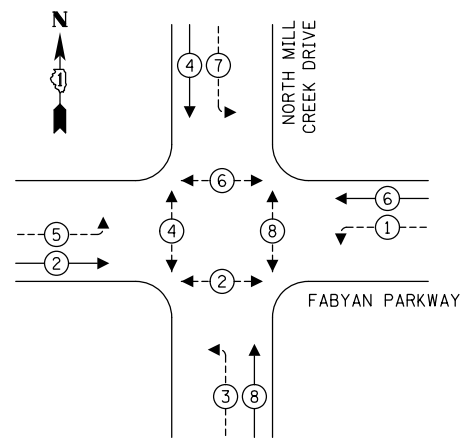
F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 49
CONTRACT NO.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSJP-0089(171)	

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

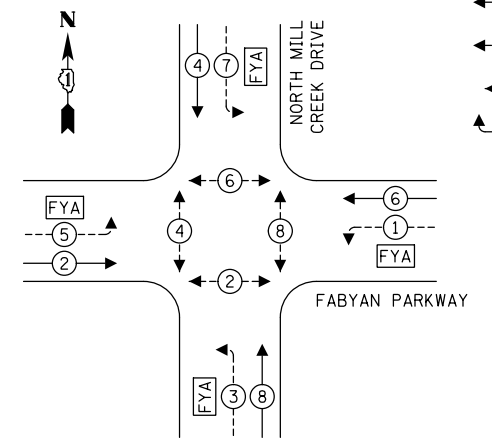
DATE _____ BY _____
 SURVEYED _____
 ALIGNED _____
 RT. OF WAY CHECKED _____
 SADDY FILE NAME _____
 PLAN NO. _____
 NOTE BOOK NO. _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 823-5500
 DATE _____ BY _____
 SURVEYED _____
 GRADES CHECKED _____
 ELEM. NOTED _____
 STRUCTURE NOTATIONS OKWD
 PROFILE _____
 NOTE BOOK NO. _____

TS SHT NO. 50

EXISTING CONTROLLER SEQUENCE



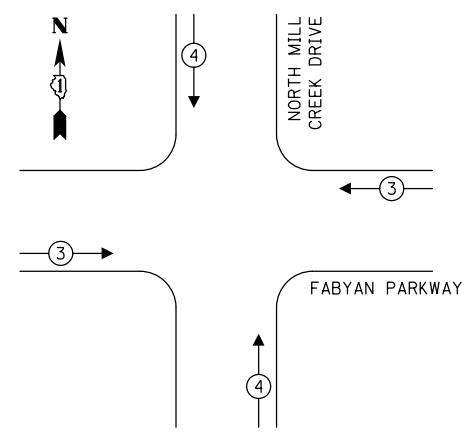
PROPOSED CONTROLLER SEQUENCE



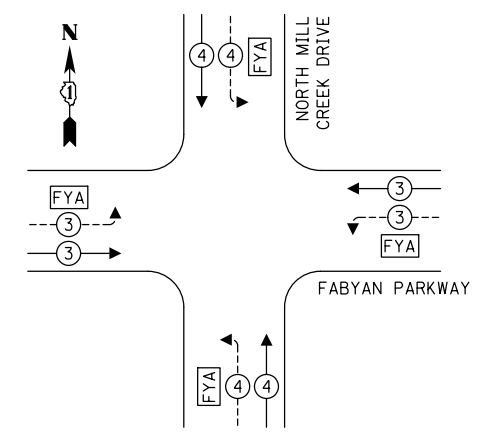
LEGEND:

- ⊙ PROTECTED PHASE
- ⊙- - PROTECTED/PERMITTED PHASE
- ⊙- -> PEDESTRIAN PHASE
- ⊙ OL OVERLAP
- FYA FLASHING YELLOW ARROW

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



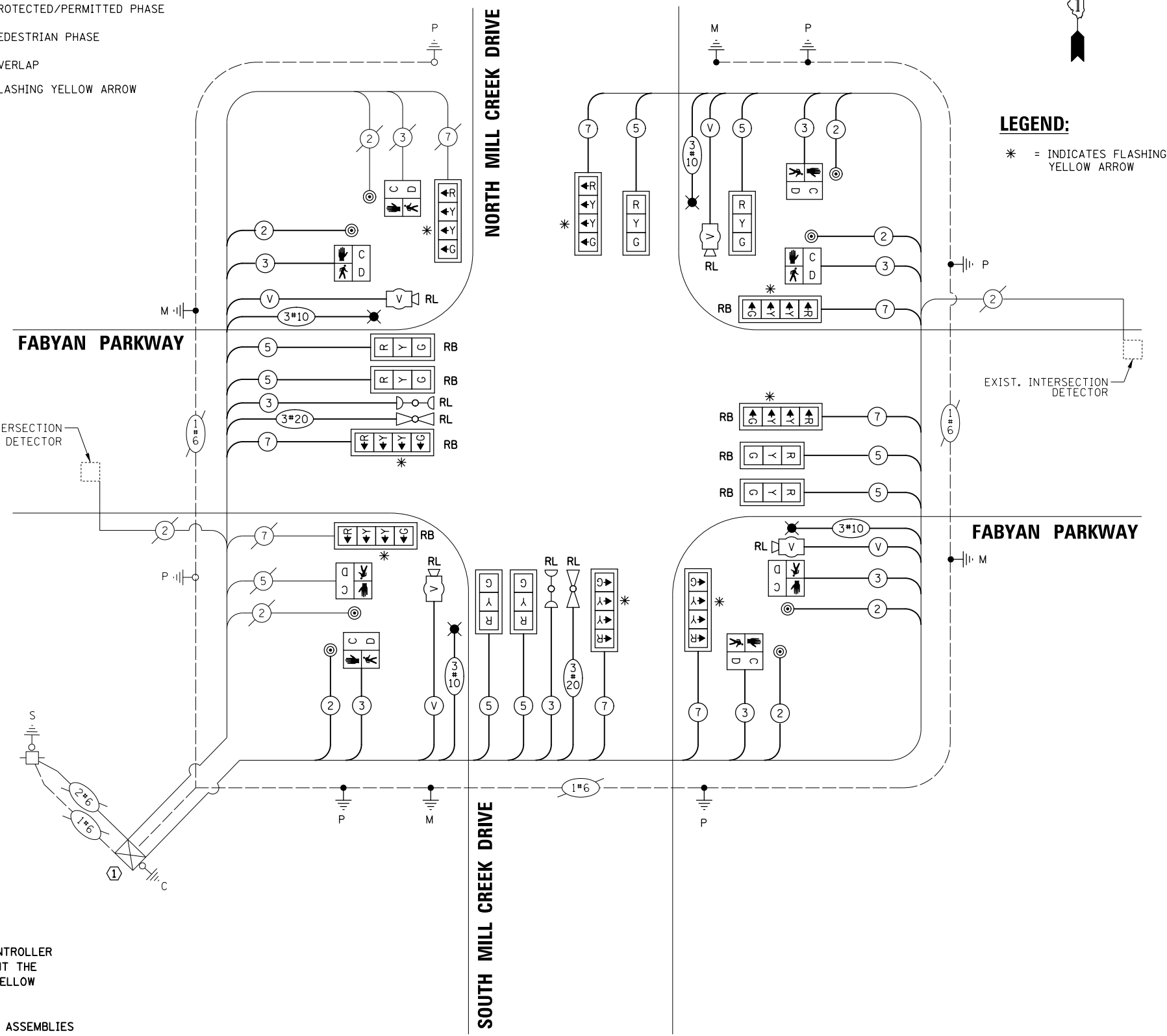
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1090.2

ENERGY COSTS TO:
 CITY OF GENEVA
 22 S. FIRST STREET
 GENEVA, ILLINOIS 60134
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



CABLE PLAN
(NOT TO SCALE)

FILE NAME 002.Fabyan-MillCreek 03-CAB	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
FABYAN PARKWAY AND MILL CREEK DRIVE**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 50
CONTRACT NO.			HSIP-0089(171)	

LEGEND:
* = INDICATES FLASHING YELLOW ARROW



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	158
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	284
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,511
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	2
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,279
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,396
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,574
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,390
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	549
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50
DRILL EXISTING HANDHOLE	EACH	4
DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	10
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	8
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,527
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	290
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
No.	BLM. NOTED	
	STRUCTURE NOTATIONS OK'D	
PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
No.	R.T. OF WAY CHECKED	
	ADD. FILE NAME	

CHRISTOPHER B. BURKE
ENGINEERING LTD.
3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(647) 923-9500



TS SHT NO. 51

FILE NAME 002.Fabyan-MillCreek 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES FABYAN PARKWAY AND MILL CREEK DRIVE	F.A.P. RTE. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -			FAP 363 FAP 336	12-00424-00-SP	KANE	172	51
		CHECKED - GMZ	REVISED -			CONTRACT NO.				
		DATE - 12/8/2017	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

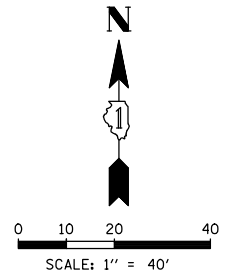
REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH LUMINAIRE
- 2 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS ASSEMBLIES:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 4 EACH VIDEO CAMERA
- 1 EACH PTZ CAMERA

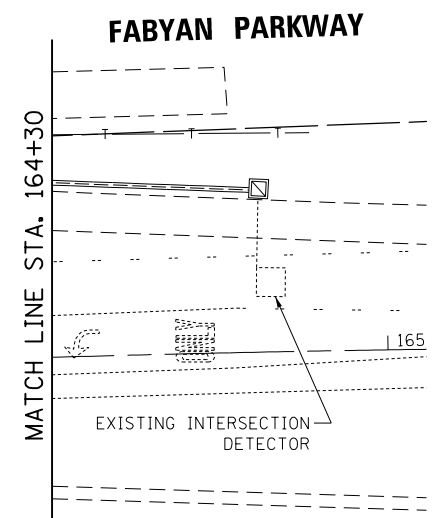
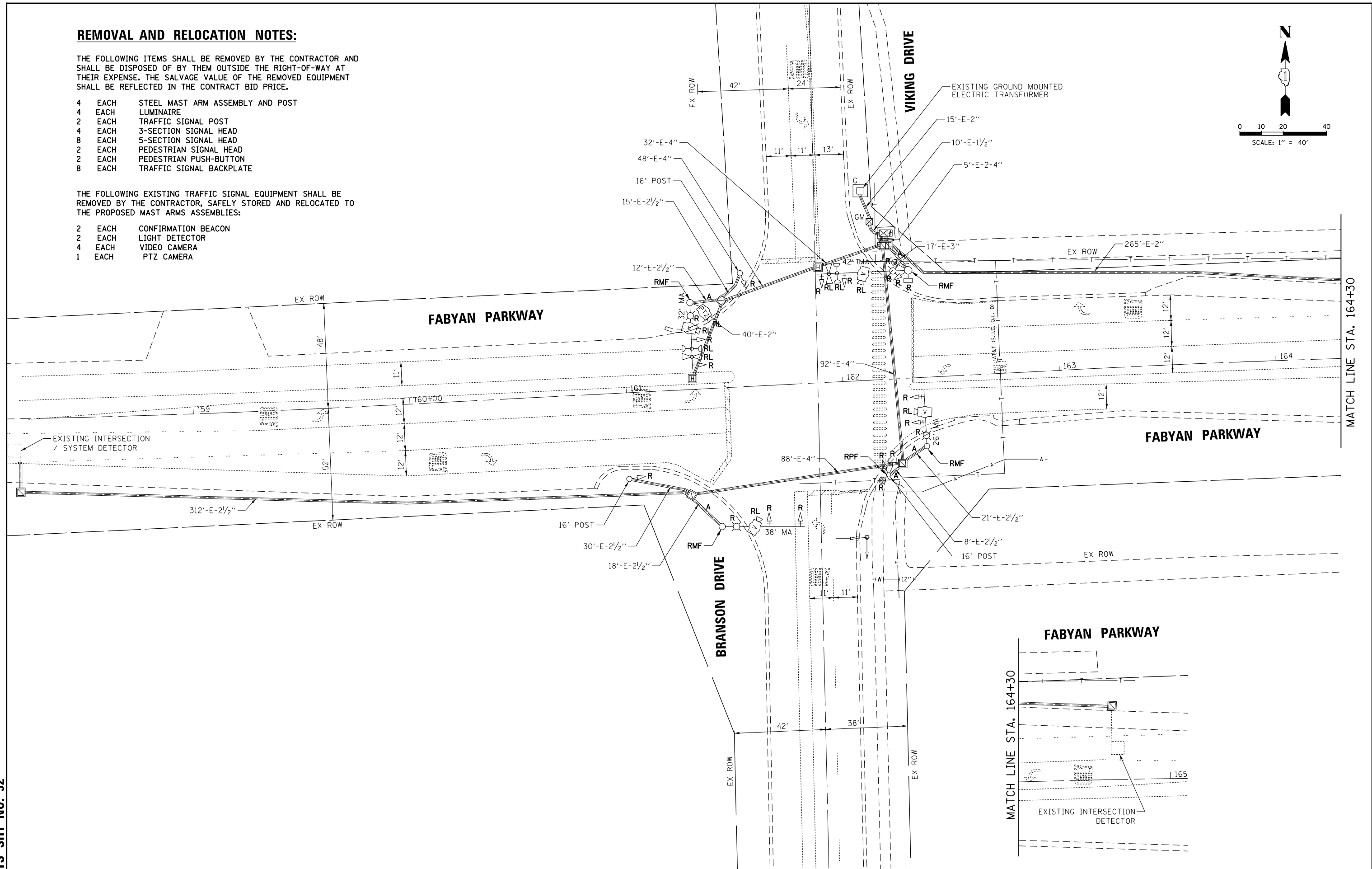


DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED
		RT. OF WAY	RT. OF WAY	RT. OF WAY			RT. OF WAY	RT. OF WAY	RT. OF WAY
		FILE NAME	FILE NAME	FILE NAME			FILE NAME	FILE NAME	FILE NAME

CHRISTOPHER B. BURKE
ENGINEERING LTD.
3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(617) 823-5500

DATE	BY	SURVEYED	ALIGNED	CHECKED
		GRADES	GRADES	GRADES
		STRUCTURE	STRUCTURE	STRUCTURE

TS SHT NO. 52



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
003_Fabyan-Viking 01.REM		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

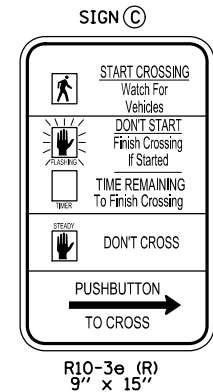
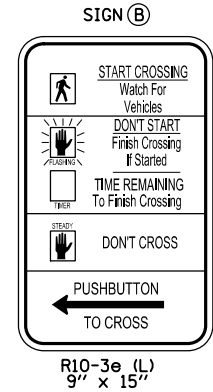
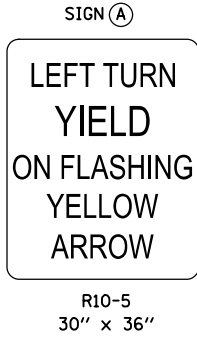
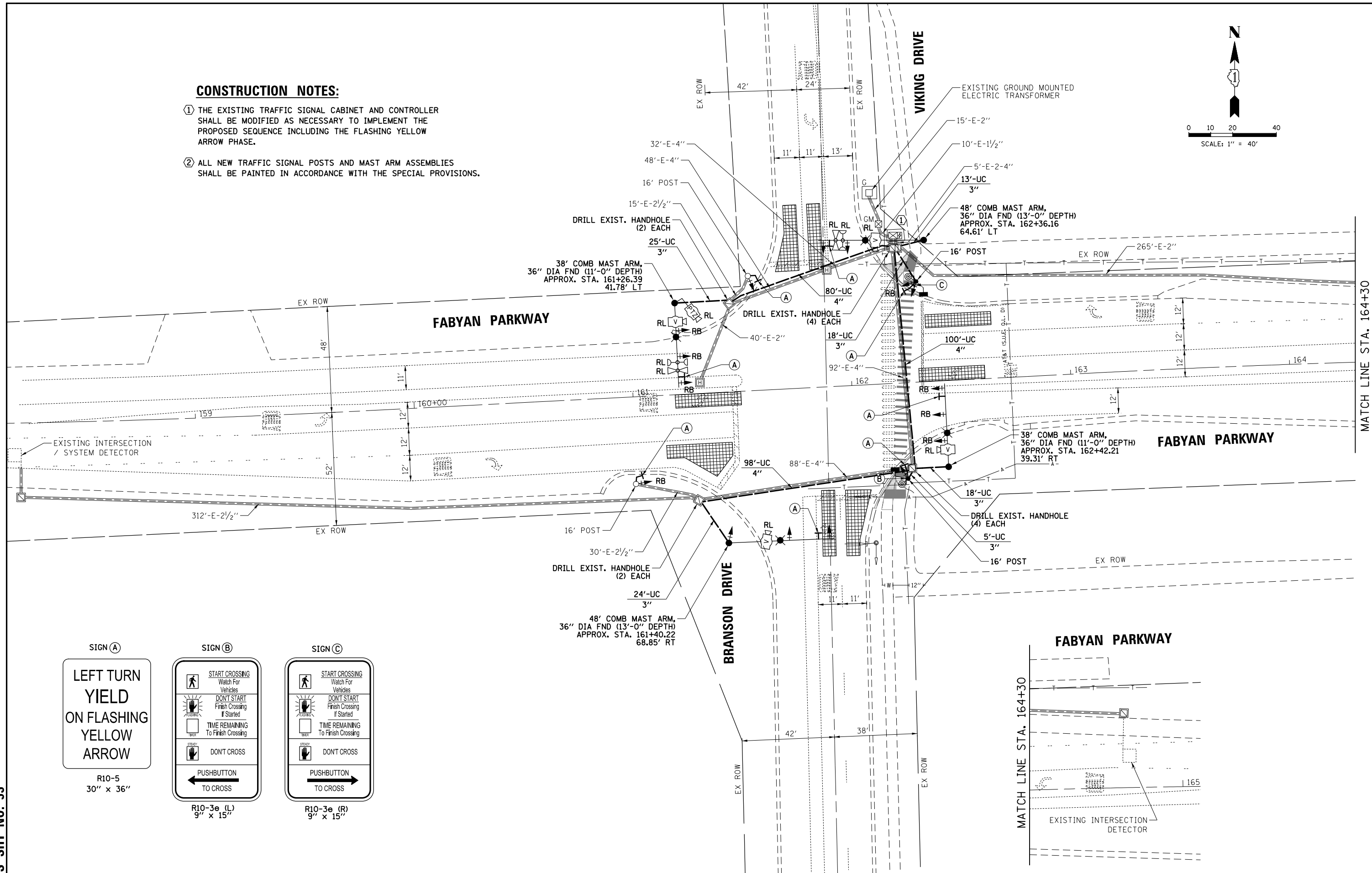
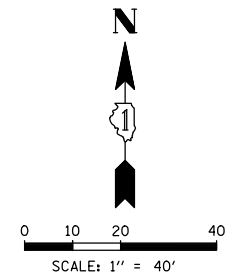
**TRAFFIC SIGNAL REMOVAL PLAN
FABYAN PARKWAY AND BRANSON DRIVE / VIKING DRIVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	52
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

SCALE: SHEET NO. OF SHEETS STA. TO STA.

CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



DATE	BY	DATE	BY
PLAN	ENGINEERING LTD.	PROFILE	STRUCTURE NOTATIONS OK'D
NOTE BOOK NO.		NOTE BOOK NO.	
NO.		NO.	
NO.		NO.	
NO.		NO.	

TS SHT NO. 53

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
003_Fabyan-Viking 02.MXD		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
FABYAN PARKWAY AND BRANSON DRIVE / VIKING DRIVE**

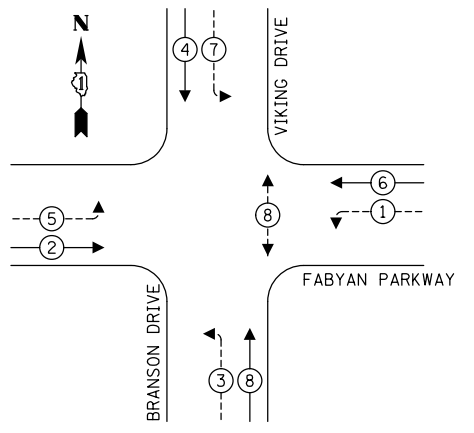
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	53
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

SCALE: SHEET NO. OF SHEETS STA. TO STA.

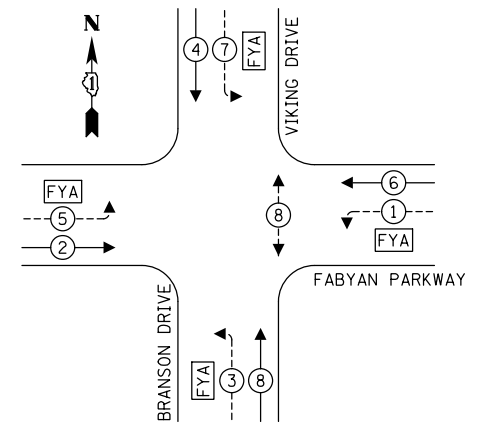
SURVEYED _____ ALIGNED _____ CHECKED _____
 PLAN NO. _____ RT. OF WAY CHECKED _____
 DATE _____ BY _____
 SURVEYED _____ GRADES CHECKED _____
 PLAN NO. _____ STRUCTURE NOTATIONS OKWD
 DATE _____ BY _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5938

TS SHT NO. 54

EXISTING CONTROLLER SEQUENCE



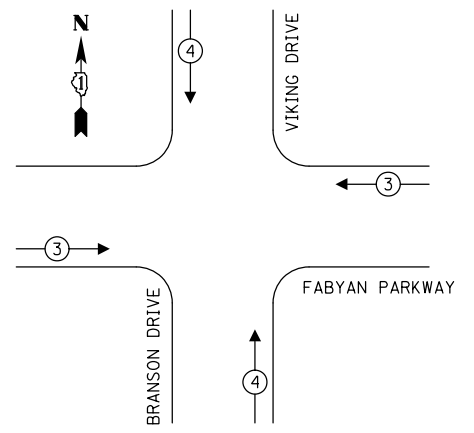
PROPOSED CONTROLLER SEQUENCE



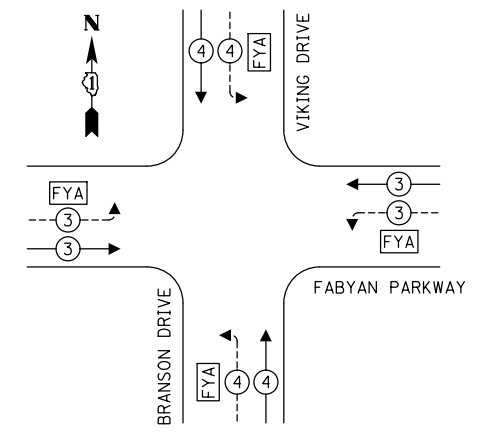
LEGEND:

- ← (circle with asterisk) → PROTECTED PHASE
- ← (circle with asterisk and dashed line) → PROTECTED/PERMITTED PHASE
- ← (circle with asterisk and pedestrian symbol) → PEDESTRIAN PHASE
- ← (circle with asterisk and 'OL') → OVERLAP
- (square with 'FYA') → FLASHING YELLOW ARROW

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



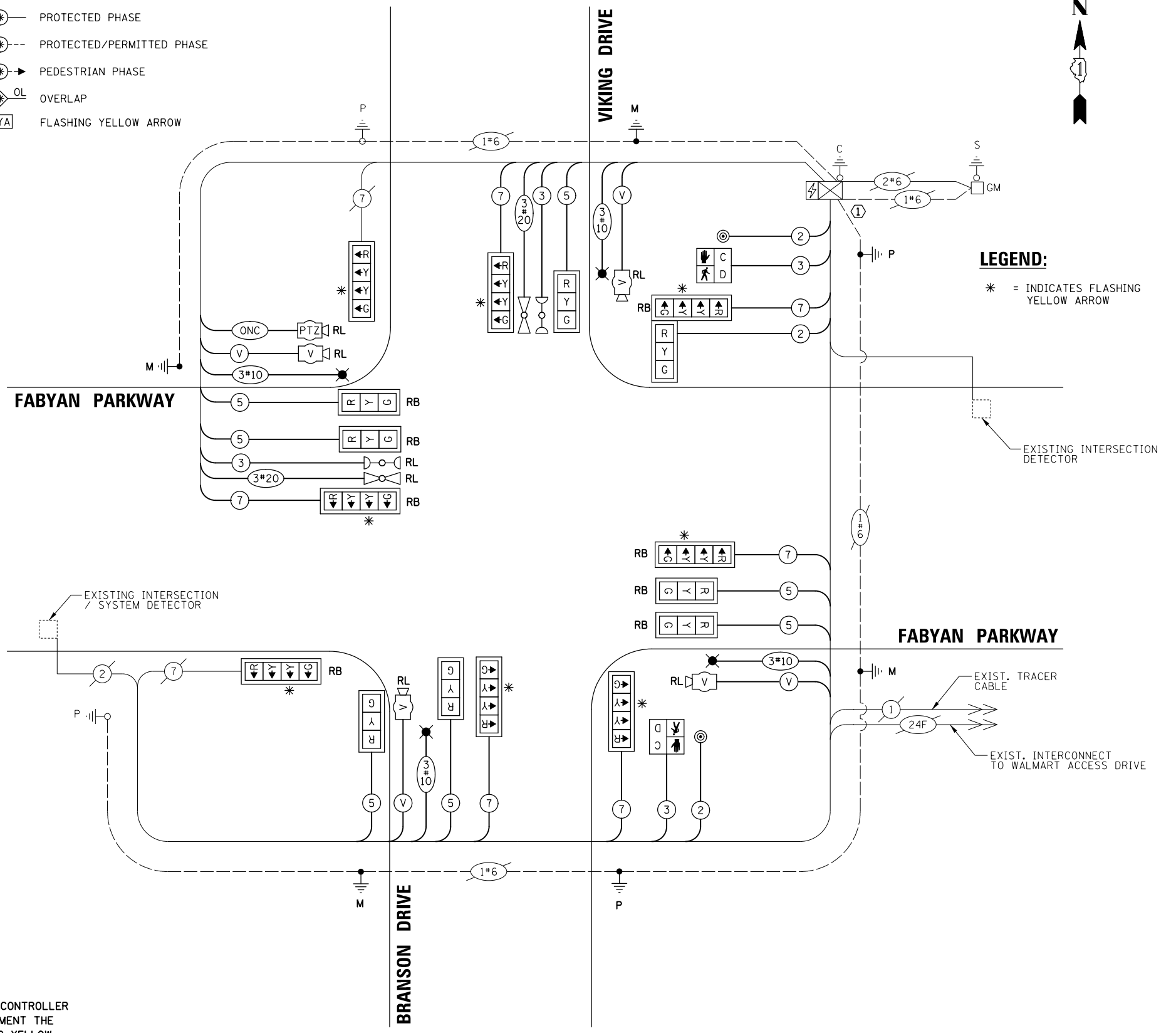
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				970.2

ENERGY COSTS TO:
 CITY OF GENEVA
 22 S. FIRST STREET
 GENEVA, ILLINOIS 60134
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: _____

CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE FABYAN PARKWAY AND BRANSON DRIVE / VIKING DRIVE

FILE NAME: 003_Fabyan-Viking 03.CAB

USER NAME = fbariso
 DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 PLOT DATE = 12/8/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -

DATE - 12/8/2017
 REVISED -

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 54
CONTRACT NO.			HSIP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	270
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	98
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	278
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,247
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	2
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	2
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	197
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	500
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,479
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,450
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	400
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	58
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	10
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,967
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	429
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
No.	BLM. NOTED		
	STRUCTURE NOTATIONS		
	CHKD		
PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNMENT CHECKED		
No.	R.T. OF WAY CHECKED		
	ADD. FILE NAME		

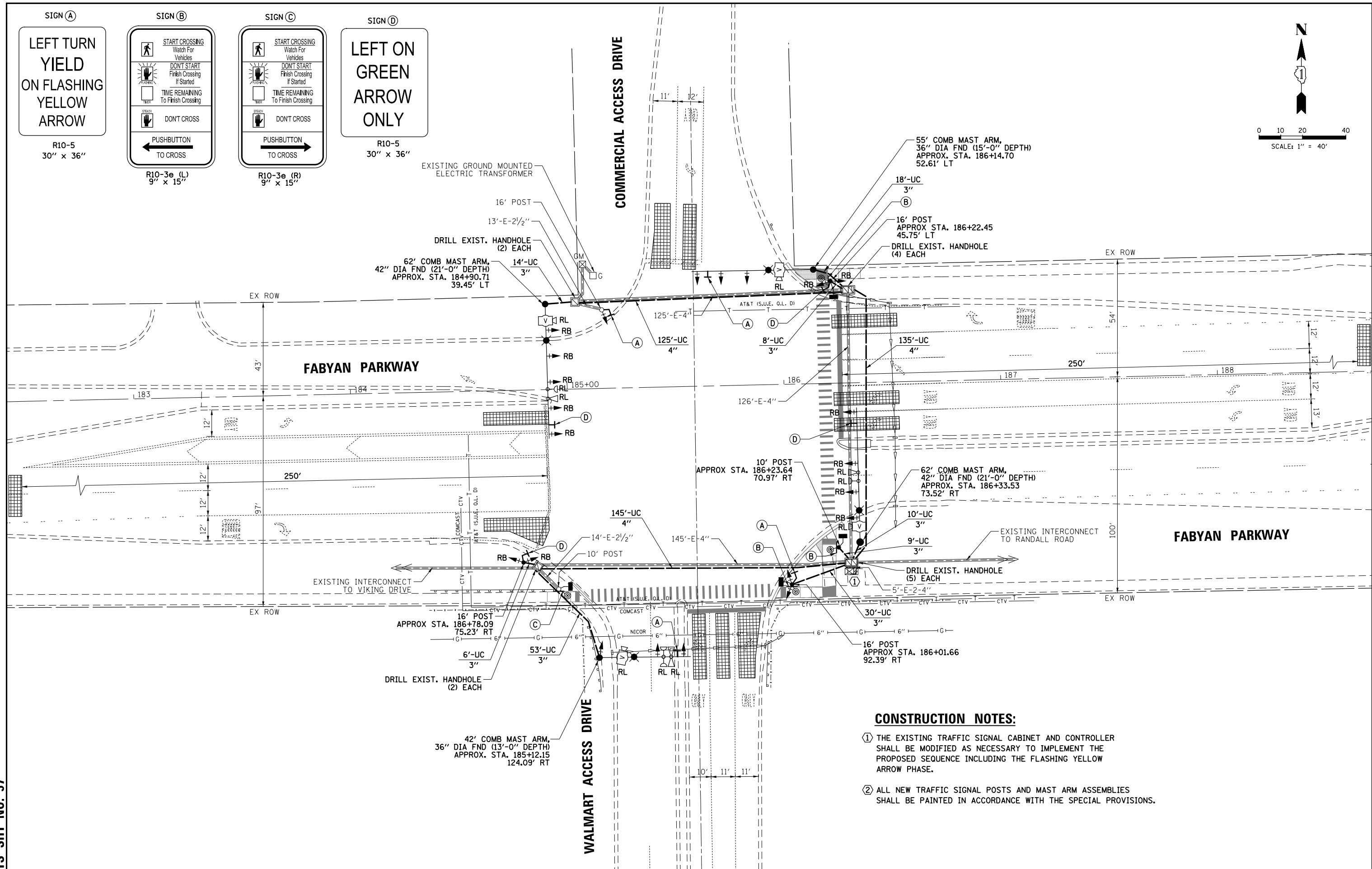
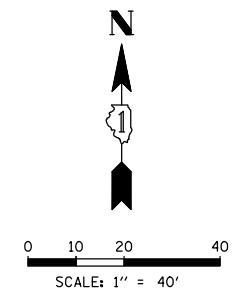
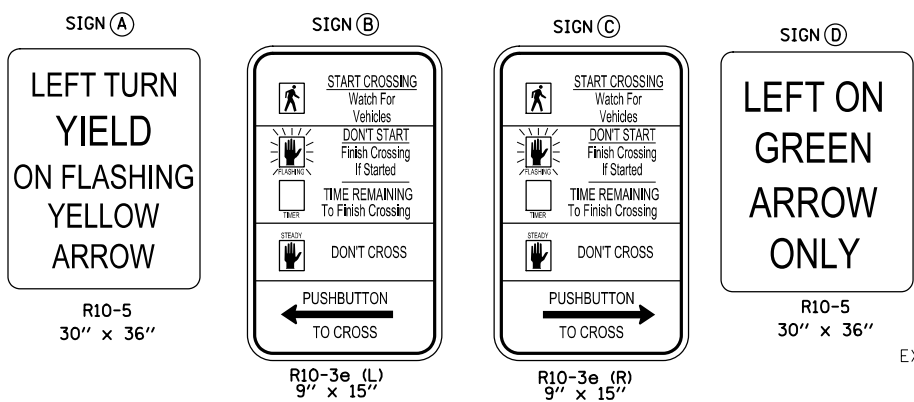
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 923-9500



TS SHT NO. 55

FILE NAME 003.Fabyan-Viking 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED - ____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES FABYAN PARKWAY AND BRANSON DRIVE / VIKING DRIVE	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
		DRAWN - FPB	REVISED - ____			FAP 363 12-00424-00-SP KANE 172 55
		CHECKED - GMZ	REVISED - ____			FAP 336
		PLLOT SCALE = 48'	REVISED - ____			CONTRACT NO.
		PLLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED - ____	SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____	FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT HSIP-0089(171)

BY: _____ DATE: _____
 SURVEYED _____
 ALIGNED _____
 RT. OF WAY CHECKED _____
 CADD FILE NAME: _____
 PLAN NOTE BOOK NO.: _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5938
 BY: _____ DATE: _____
 SURVEYED _____
 GRADES CHECKED _____
 E.M. NOTED _____
 STRUCTURE NOTATIONS OKWD
 PROFILE NOTE BOOK NO.: _____
 TS SHT NO. 57



- CONSTRUCTION NOTES:**
- THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
 - ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

FILE NAME 004_Fabyan-Walmart 02.MXD	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN FABYAN PARKWAY AND WALMART ACCESS DRIVE			F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 57
PLOT SCALE = 48'	CHECKED - GMZ	REVISIED -	REVISIED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.		
PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISIED -	REVISIED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 PLAN: _____ CHECKED: _____
 NOTE BOOK: _____ RT. OF WAY CHECKED: _____
 NO.: _____ CADD FILE NAME: _____

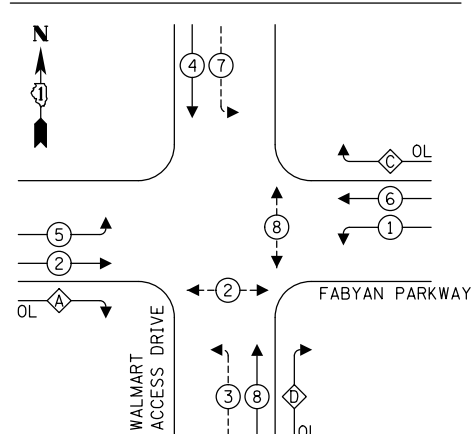
DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PLAN: _____ STRUCTURE NOTATIONS: _____
 NOTE BOOK: _____ NO.: _____

DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PLAN: _____ STRUCTURE NOTATIONS: _____
 NOTE BOOK: _____ NO.: _____

TS SHT NO. 58

FILE NAME: 004_Fabyan-Walmart_03.CAB
 USER NAME: fbariso
 DESIGNED: TFS
 DRAWN: FPB
 CHECKED: GMZ
 DATE: 12/8/2017

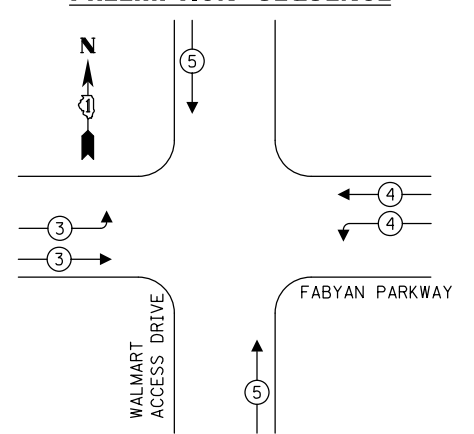
EXISTING CONTROLLER SEQUENCE



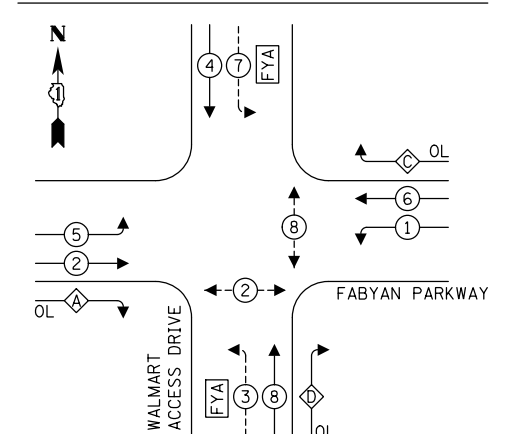
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



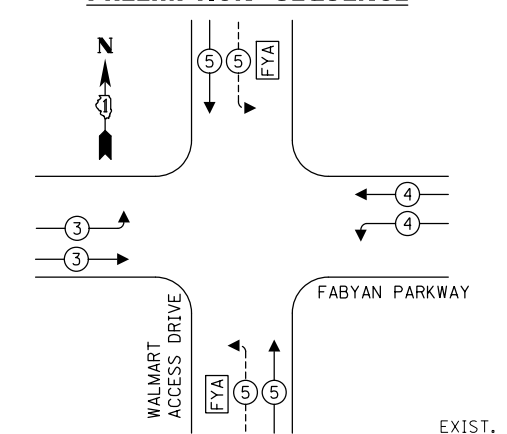
PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← ⊛ → PROTECTED PHASE
- ← ⊛ → PROTECTED/PERMITTED PHASE
- ← ⊛ → PEDESTRIAN PHASE
- ← ⊛ OL OVERLAP
- ⊛ FYA FLASHING YELLOW ARROW

LEGEND:

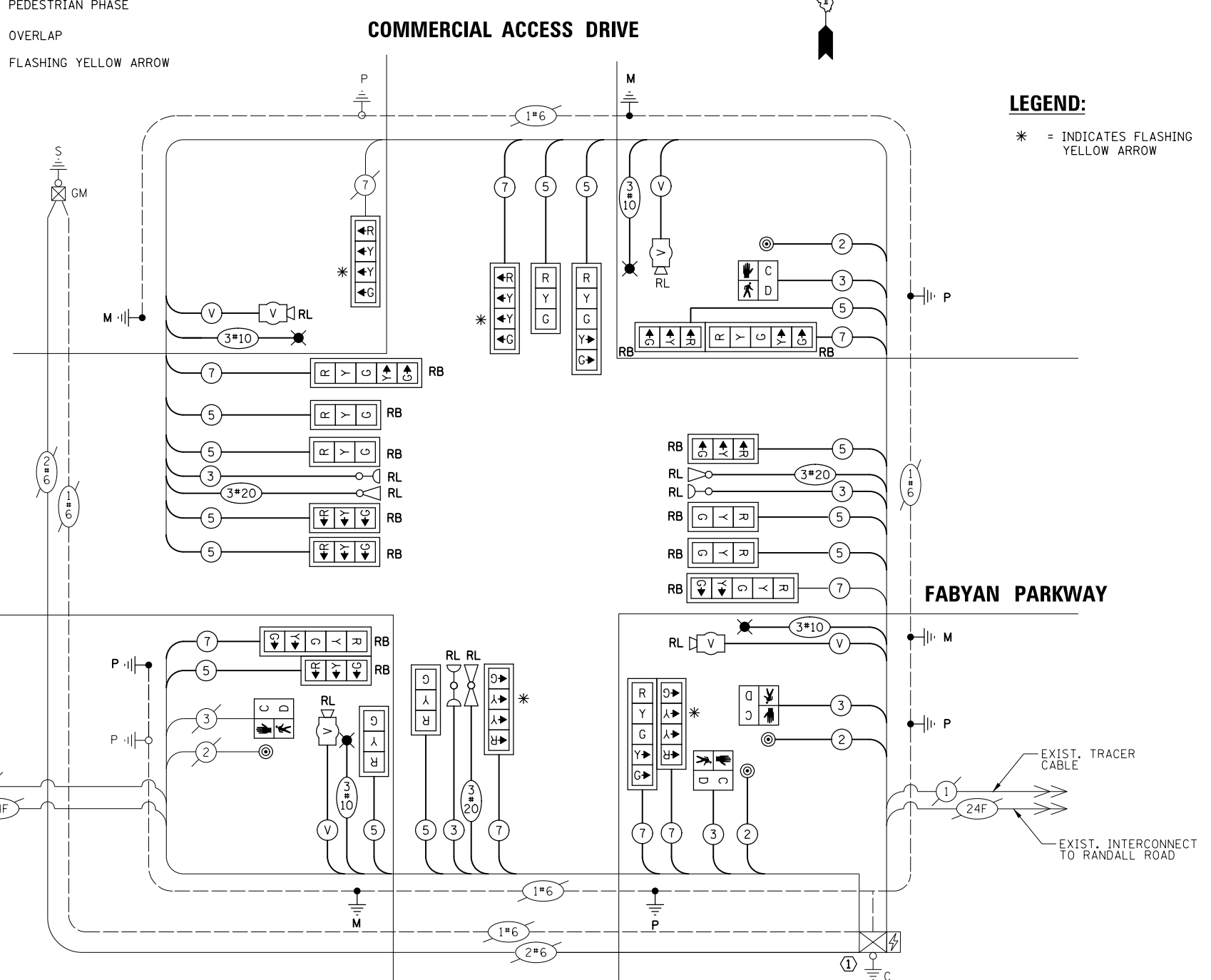
- * = INDICATES FLASHING YELLOW ARROW

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.0
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
SOLID ARROW (RED)	9	10	50	45.0
(GREEN & YELLOW)	26	10	10	26.0
FLASHING ARROW	4	10	5	2.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1082.2

ENERGY COSTS TO:
 CITY OF GENEVA
 22 S. FIRST STREET
 GENEVA, ILLINOIS 60134
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

- CONSTRUCTION NOTES:**
- THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
 - ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



CABLE PLAN
 (NOT TO SCALE)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE FABYAN PARKWAY AND WALMART ACCESS DRIVE

F.A.P. RTE. 363	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 58
FAP 336			CONTRACT NO.	
SCALE: _____		SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT _____ HSIP-0089(171)

SCHEDULE OF QUANTITIES

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
No.	BLM. NOTED		
	STRUCTURE NOTATIONS		
	CHKD		
PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNMENT CHECKED		
No.	RT. OF WAY CHECKED		
	ADD. FILE NAME		

CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-9500



TS SHT NO. 59

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	405
MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	100
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	148
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	553
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	3,009
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	495
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,070
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,346
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,734
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	624
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
DRILL EXISTING HANDHOLE	EACH	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	13
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	13
PEDESTRIAN PUSH-BUTTON	EACH	4
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9,065
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	470
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES FABYAN PARKWAY AND WALMART ACCESS DRIVE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
004.Fabyan-Walmart 03.CAB-2		DRAWN - FPB	REVISED -			FAP 363	12-00424-00-SP	KANE	172	59
		CHECKED - GMZ	REVISED -			FAP 336				
		DATE - 12/8/2017	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO.		FED. ROAD DIST. NO.

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO. 60

FILE NAME
004A_Fabyan-Randall 01.MXD

USER NAME = fbariso
DESIGNED - TFS
DRAWN - FPB
CHECKED - GMZ
DATE - 12/8/2017

REVISIONS
REVISED -
REVISED -
REVISED -
REVISED -

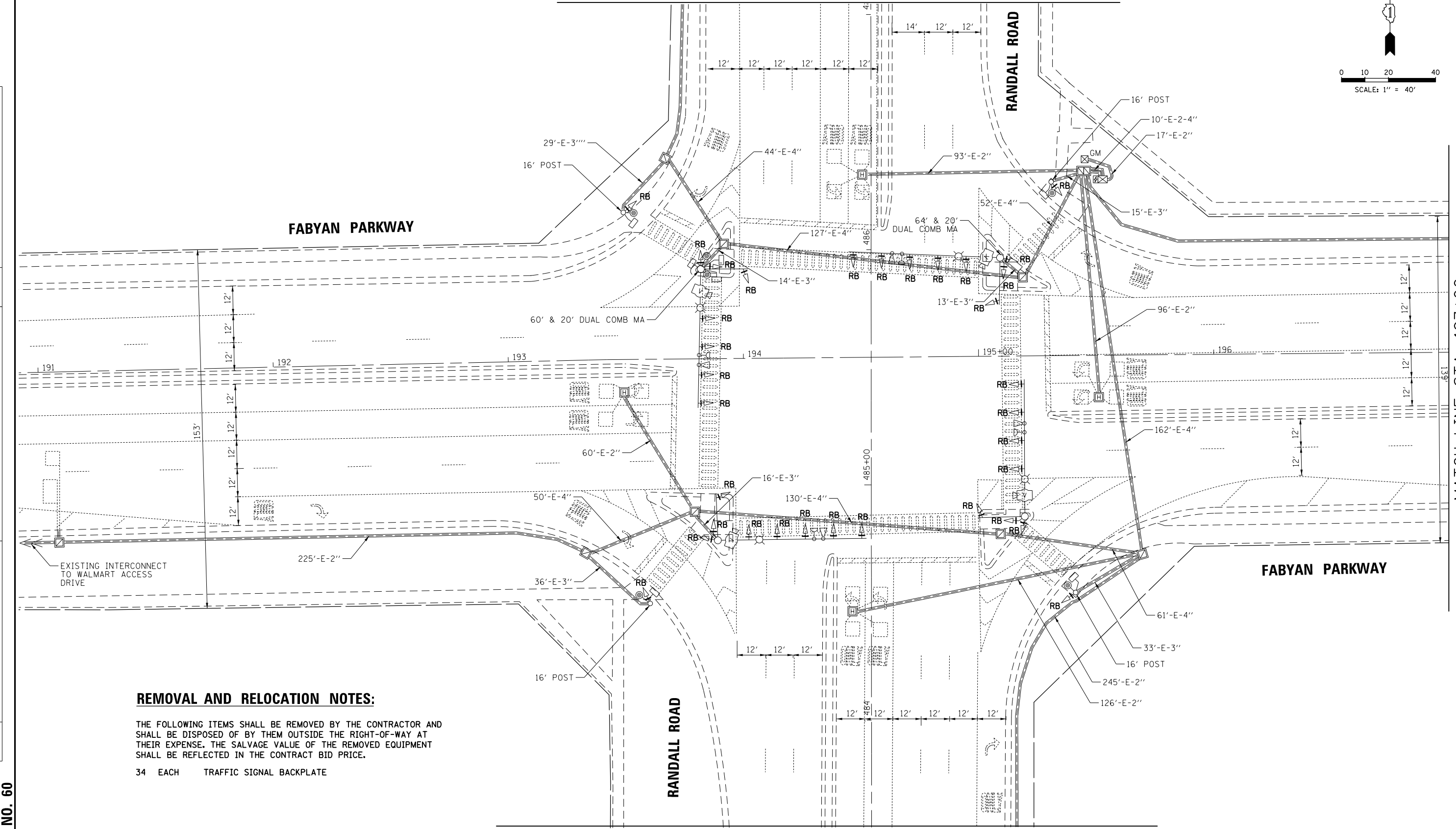
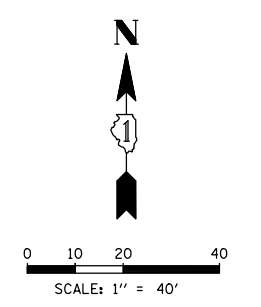
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
FABYAN PARKWAY AND RANDALL ROAD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
FAP 363 12-00424-00-SP KANE 172 60
FAP 336 CONTRACT NO.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)

MATCH LINE STA. 1182+75
(SEE NEXT SHEET)



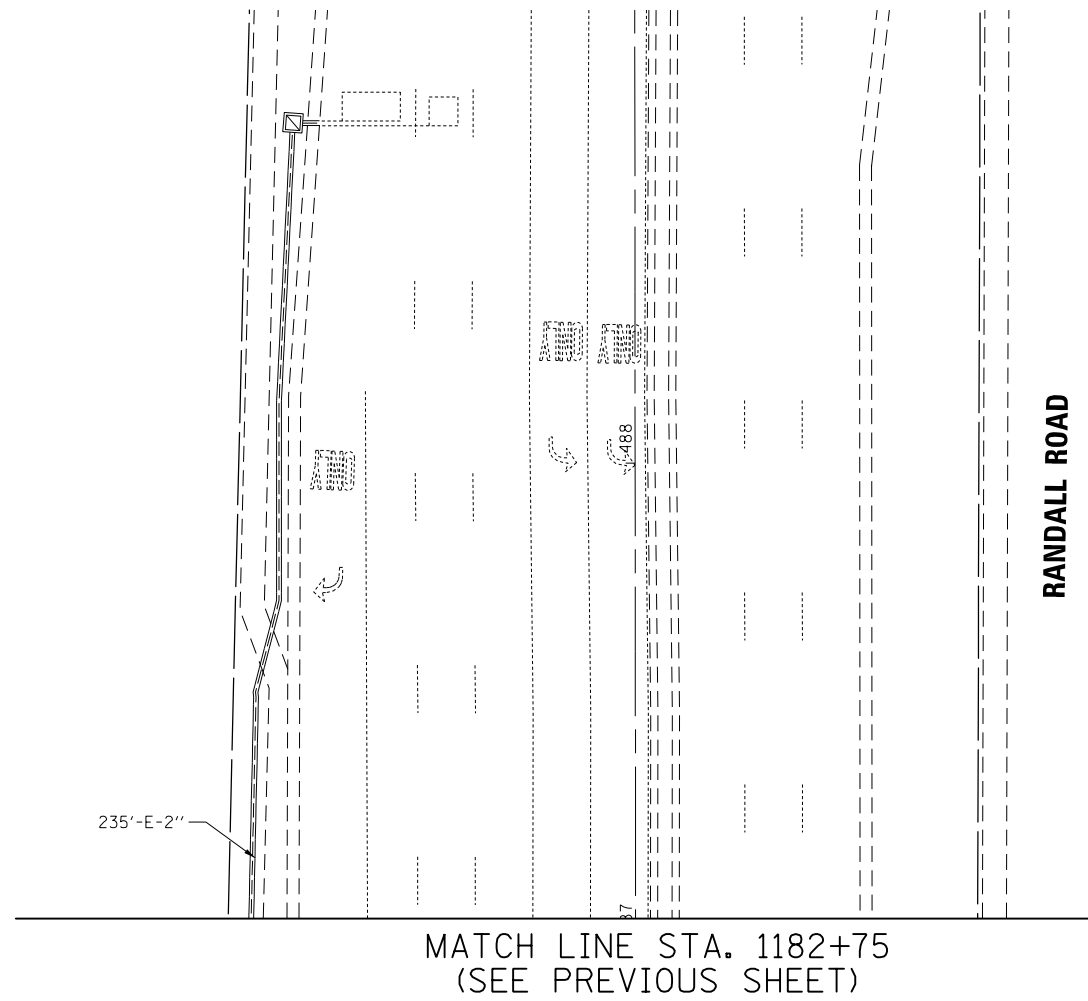
REMOVAL AND RELOCATION NOTES:
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
34 EACH TRAFFIC SIGNAL BACKPLATE

MATCH LINE STA. 1179+25
(SEE NEXT SHEET)

MATCH LINE STA. 197+00
(SEE NEXT SHEET)

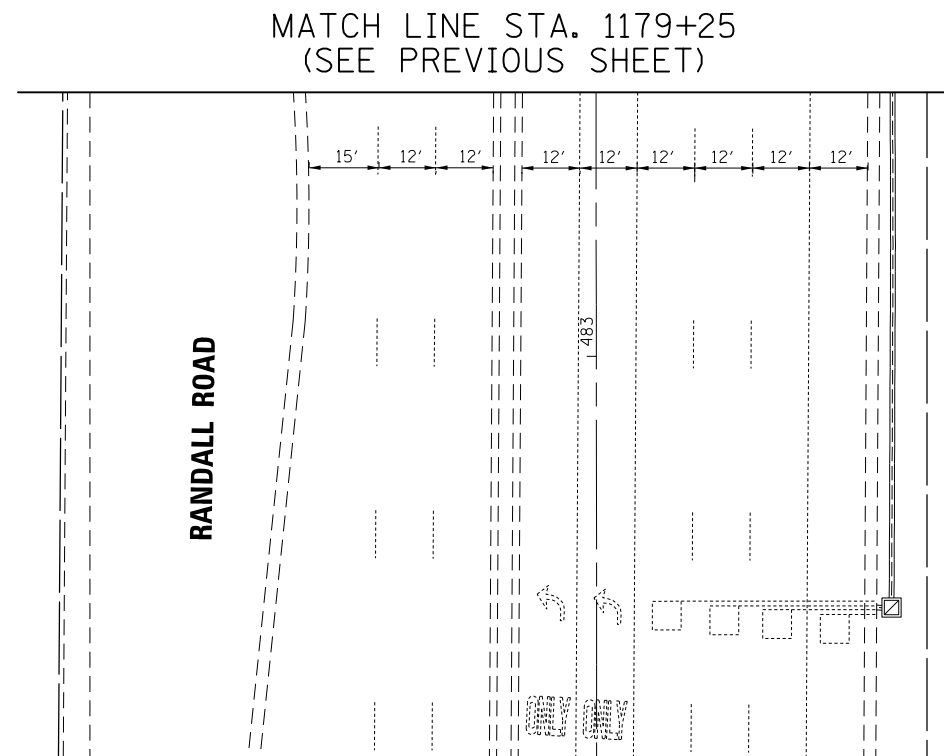
PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
NOTE BOOK NO.	BLM. NOTED		
	STRUCTURE NOTATIONS OK'D		
PLAN	SURVEYED	BY	DATE
	NOTE BOOK NO.		
ENGINEERING LTD. CHRISTOPHER B. BURKE 3575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (647) 923-5938			

TS SHT NO. 61



RANDALL ROAD

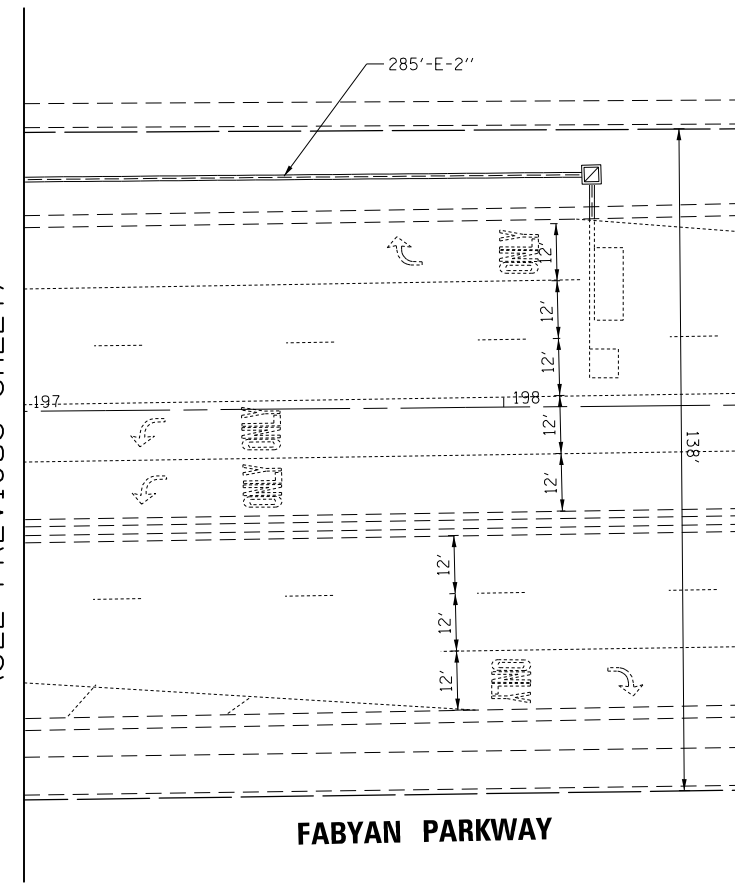
MATCH LINE STA. 1182+75
(SEE PREVIOUS SHEET)



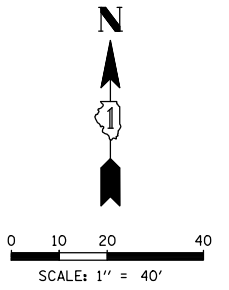
RANDALL ROAD

MATCH LINE STA. 1179+25
(SEE PREVIOUS SHEET)

MATCH LINE STA. 197+00
(SEE PREVIOUS SHEET)



FABYAN PARKWAY



FILE NAME
004A_Fabyan-Randall 02.MOD

USER NAME = fbariso	DESIGNED - TFS	REVISED -
PLOT SCALE = 48'	DRAWN - FPB	REVISED -
PLOT DATE = 12/8/2017	CHECKED - GMZ	REVISED -
	DATE - 12/8/2017	REVISED -

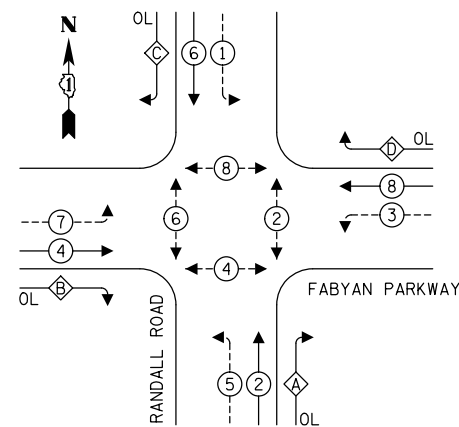
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
FABYAN PARKWAY AND RANDALL ROAD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	61
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

EXISTING CONTROLLER SEQUENCE

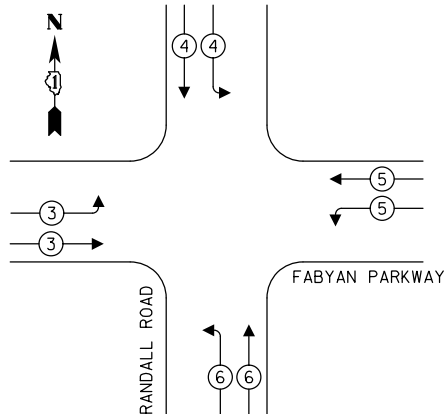


RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7
D	8	1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	11	50	66.0
(YELLOW)	22	20	5	12.0
(GREEN)	22	12	45	64.8
SOLID ARROW (RED)	12	10	50	40
(GREEN & YELLOW)	48	10	10	32.0
FLASHING ARROW	-	10	5	-
PED. SIGNAL	16	20	100	320.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	PTZ	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1159.8

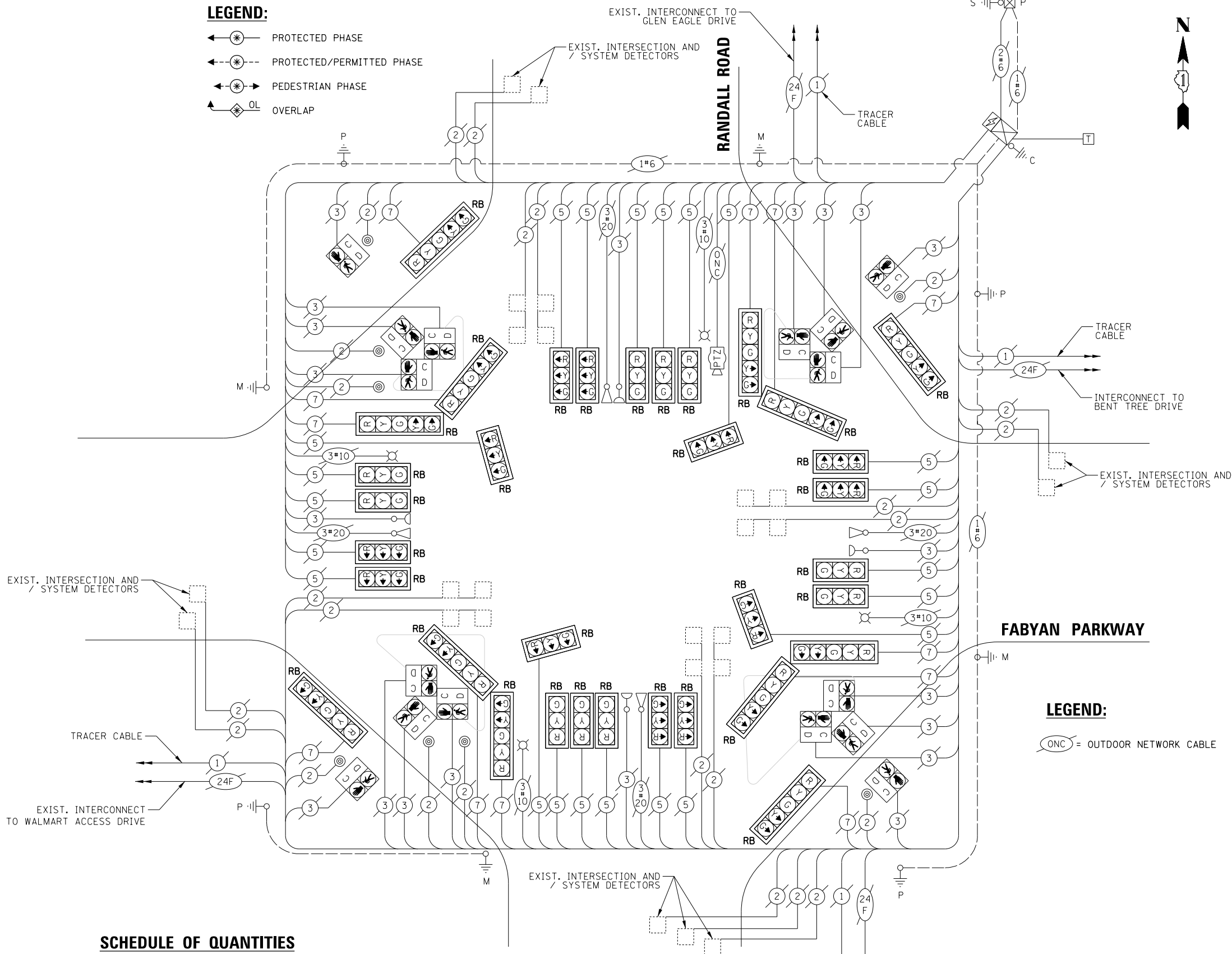
ENERGY COSTS TO:

CITY OF GENEVA
22 S. FIRST STREET
GENEVA, ILLINOIS 60134

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: _____
ACCOUNT NUMBER: ---

LEGEND:

- ← (P) → PROTECTED PHASE
- ← (P) → PROTECTED/PERMITTED PHASE
- ← (P) → PEDESTRIAN PHASE
- ← (OL) → OVERLAP



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	1.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	22

CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
FABYAN PARKWAY AND RANDALL ROAD**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 62
CONTRACT NO.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)	

PROFILE SURVEYED GRADES CHECKED BLANK-NOTED STRUCTURE NOTATIONS OKWD
 NOTE BOOK NO. _____
 PLAN SURVEYED ALIGNMENT CHECKED RT. OF WAY CHECKED ADD. FILE NAME
 NO. _____
 BY: _____
 DATE: _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (630) 922-5500

TS SHT NO. 62

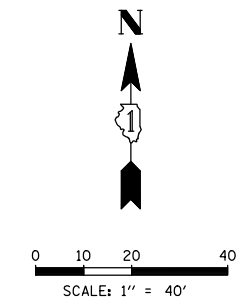
REMOVAL AND RELOCATION NOTES:

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.

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 10 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH LUMINAIRE

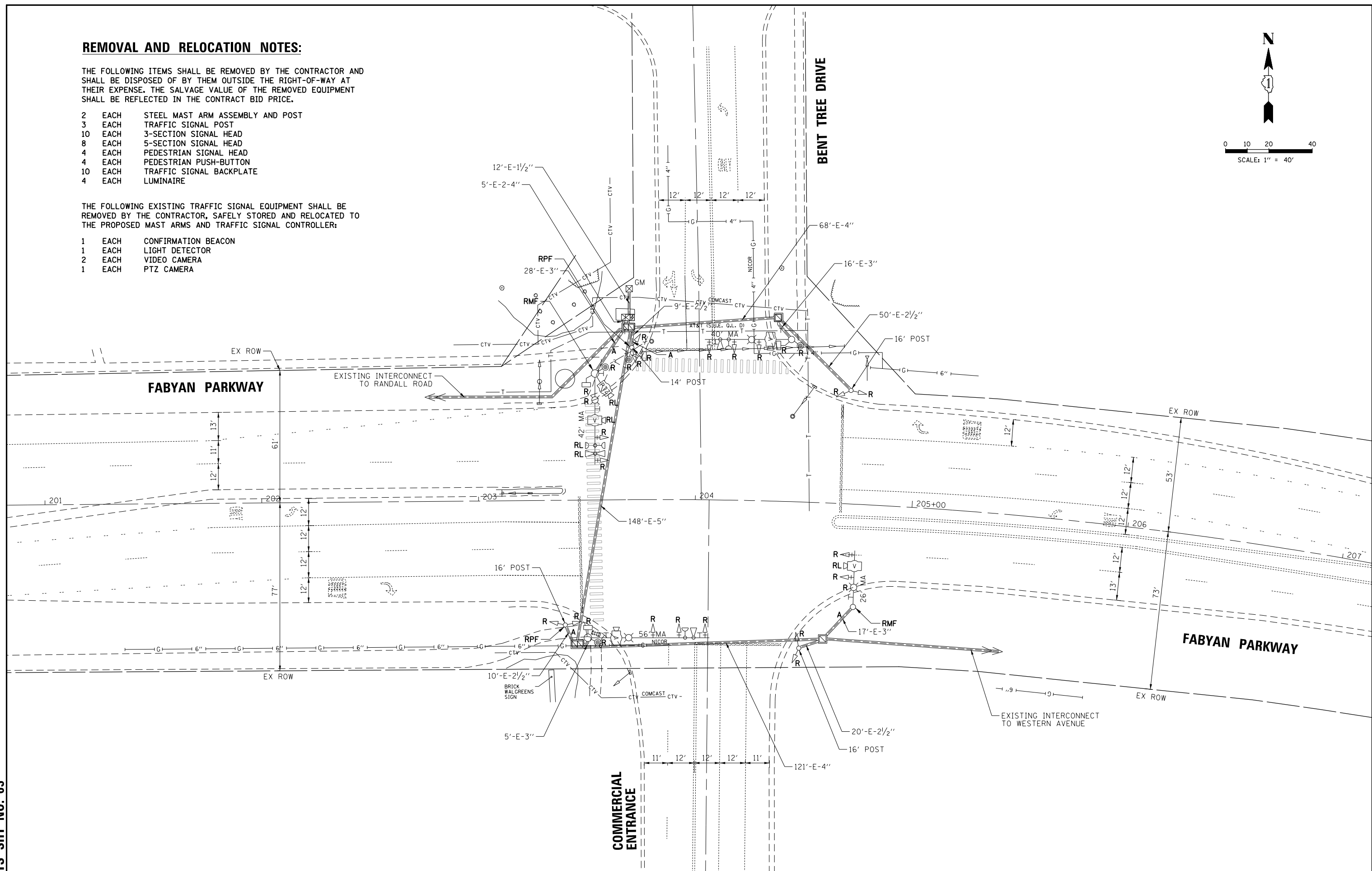
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 1 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR
- 2 EACH VIDEO CAMERA
- 1 EACH PTZ CAMERA



PROFILE SURVEYED _____ GRADES CHECKED _____ E.M. NOTED _____ STRUCTURE NOTATIONS OKWD _____ NOTE BOOK NO. _____ PLAN SURVEYED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ ADD. FILE NAME _____ NOTE BOOK NO. _____	BY _____ DATE _____ ENGINEERING LTD. CHRISTOPHER B. BURKE 3575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (647) 823-5938 BY _____ DATE _____
--	--

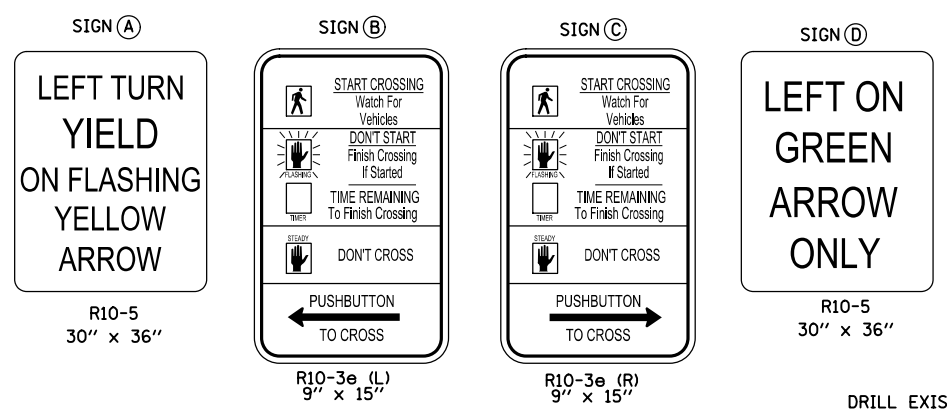
TS SHT NO. 63



FILE NAME 005.Fabyan-Bent Tree 01.REM	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS	TRAFFIC SIGNAL REMOVAL PLAN	F.A.P. RTE. 363	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 63	
				DEPARTMENT OF TRANSPORTATION	FABYAN PARKWAY AND BENT TREE DRIVE	CONTRACT NO.					
PLOT SCALE = 48'				SCALE:				SHEET NO. OF SHEETS STA. TO STA.			
PLOT DATE = 12/8/2017				DATE = 12/8/2017				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)			

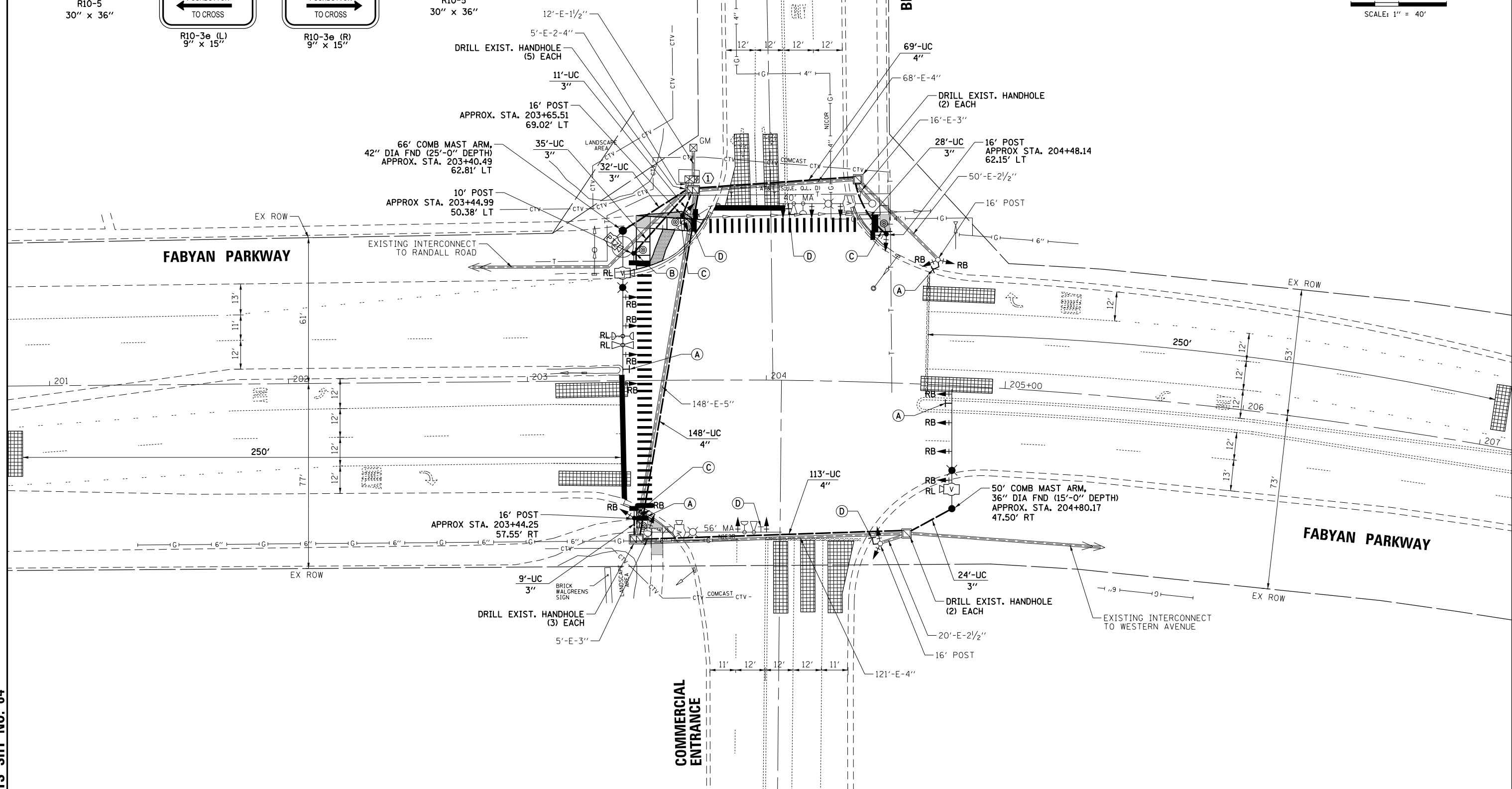
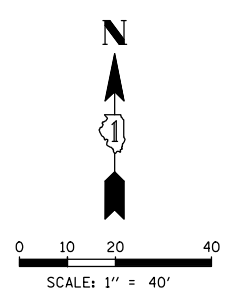
DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 PLAN: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK: _____
 NO. _____
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PROFILE: _____ ELEM. NOTED: _____
 NOTE BOOK: _____ STRUCTURE NOTATIONS: _____
 NO. _____

TS SHT NO. 64



CONSTRUCTION NOTES:

- THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



FILE NAME: 005.Fabyan-Bent Tree 02.MOD

USER NAME = fbariso	DESIGNED - TFS	REVISED -
PLOT SCALE = 48"	DRAWN - FPB	REVISED -
PLOT DATE = 12/8/2017	CHECKED - GMZ	REVISED -
	DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
 FABYAN PARKWAY AND BENT TREE DRIVE

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

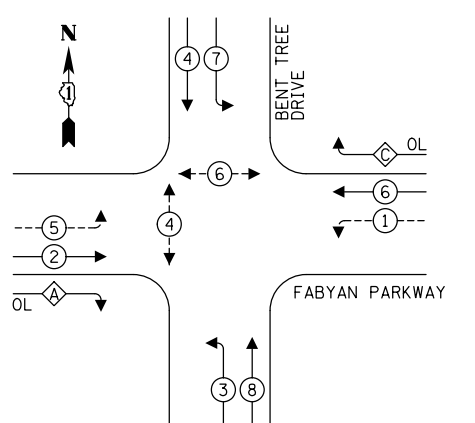
F.A.P. RTE. 363	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 64
FAP 336			CONTRACT NO. _____	
FED. ROAD DIST. NO. _____	ILLINOIS FED. AID PROJECT _____	HSIP-0089(171)		

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 RT. OF WAY CHECKED: _____
 DATE: _____ BY: _____
 PLAN: _____
 NOTE BOOK NO.: _____
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 ELEM. NOTED: _____ STRUCTURE NOTATIONS OK/NO

TS SHT NO. 65

FILE NAME: 005.Fabyan-Bent Tree 03.CAB
 USER NAME: fbariso
 PLOT SCALE: 48"
 PLOT DATE: 12/8/2017

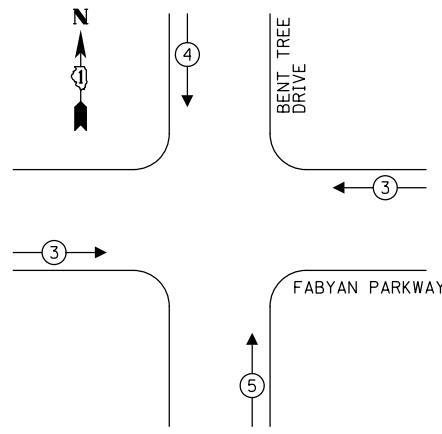
EXISTING CONTROLLER SEQUENCE



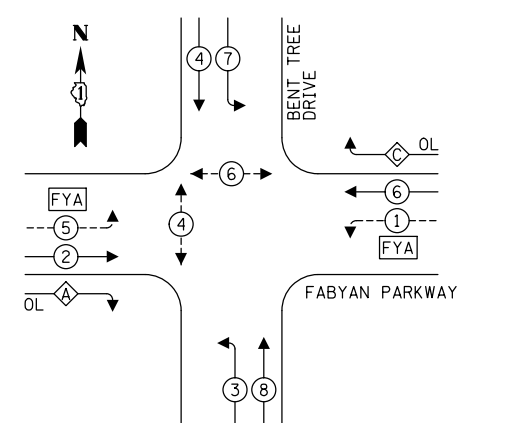
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



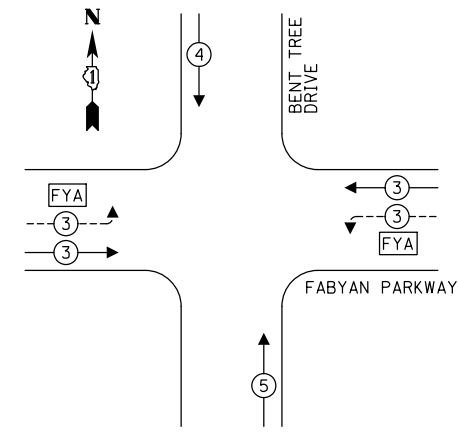
PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
SOLID ARROW (RED)	9	10	50	45.0
(GREEN & YELLOW)	26	10	10	26.0
FLASHING ARROW	4	10	5	2.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1094.6

ENERGY COSTS TO:
 CITY OF GENEVA
 22 S. FIRST STREET
 GENEVA, ILLINOIS 60134
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: _____

CONSTRUCTION NOTES:

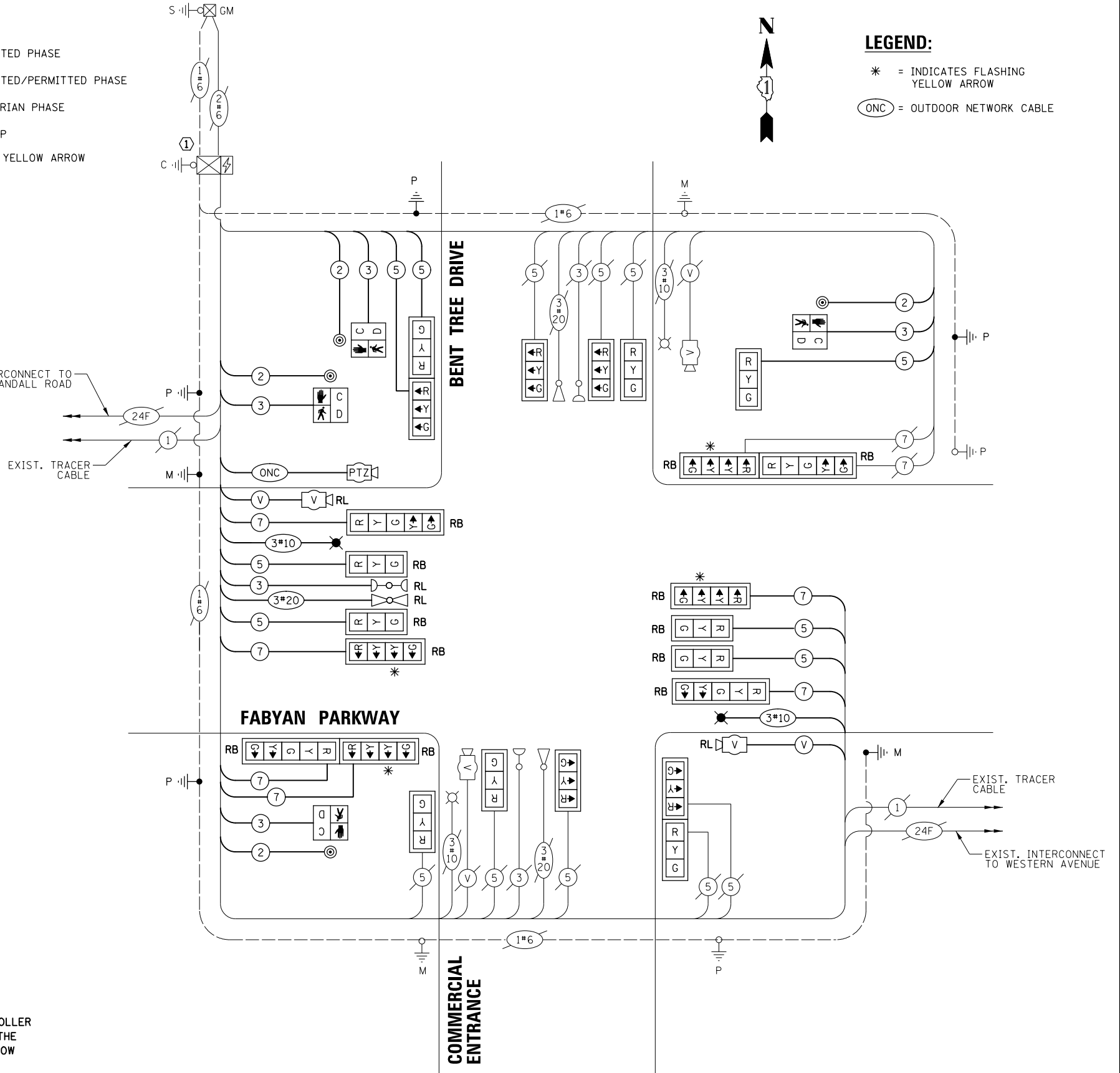
- THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL → OVERLAP
- ⊙ FYA → FLASHING YELLOW ARROW

LEGEND:

- * = INDICATES FLASHING YELLOW ARROW
- (ONC) = OUTDOOR NETWORK CABLE



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE FABYAN PARKWAY AND BENT TREE DRIVE

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 65
CONTRACT NO.			HSPJ-0089(171)	

SCALE: SHEET NO. OF SHEETS STA. TO STA.

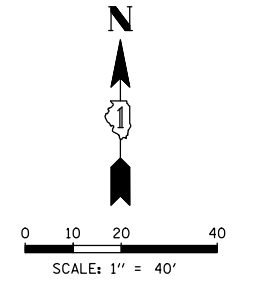
REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 3 EACH PEDESTRIAN PUSH-BUTTON
- 8 EACH TRAFFIC SIGNAL BACKPLATE

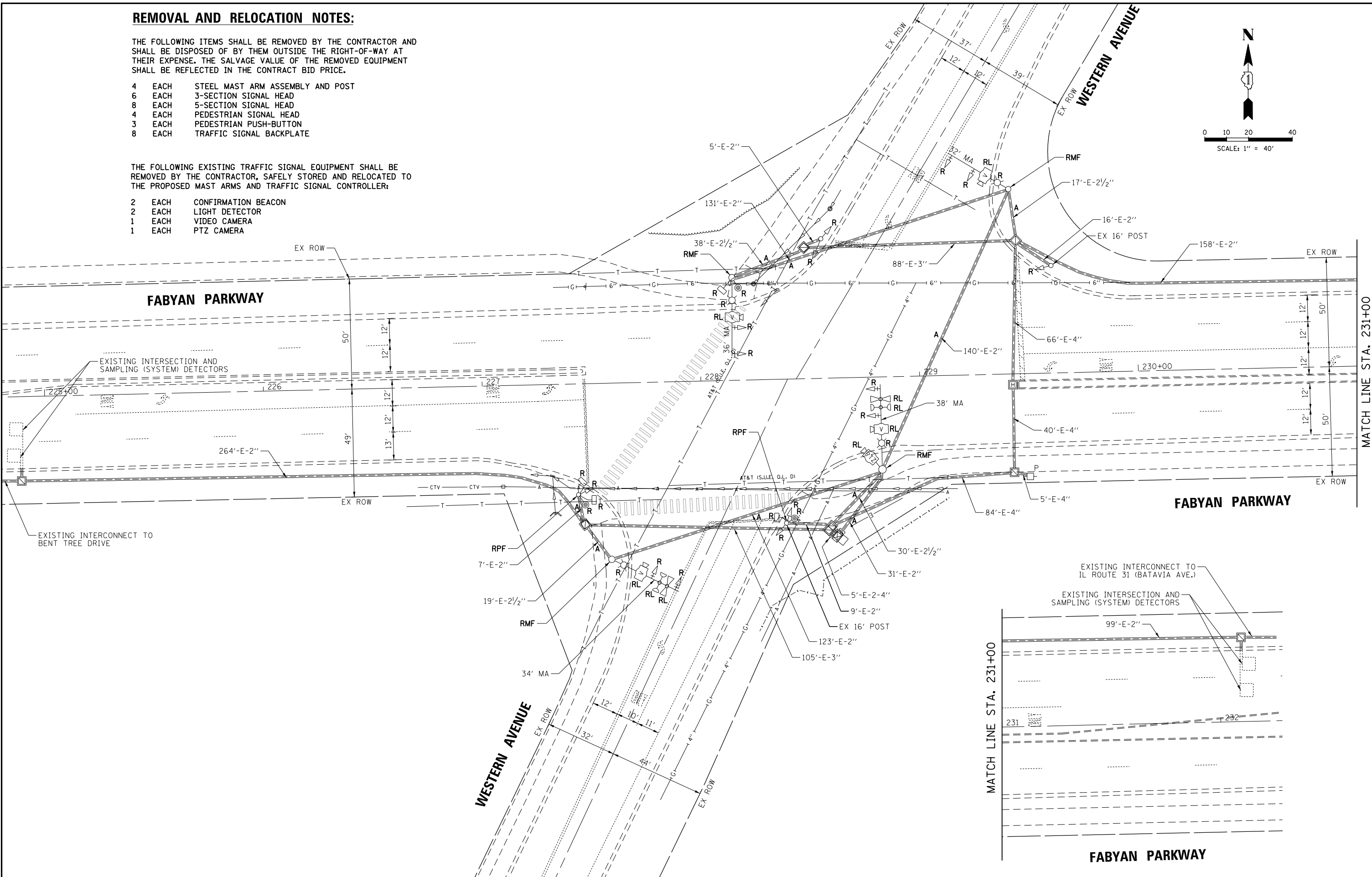
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH VIDEO CAMERA
- 1 EACH PTZ CAMERA



DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D
DATE	BY	PLANNING	DESIGN	CONSTRUCTION

TS SHT NO. 67



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
006.Fabyan-Western 01.REM		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

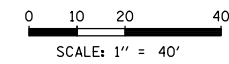
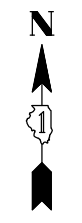
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL REMOVAL PLAN
FABYAN PARKWAY AND WESTERN AVENUE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363	12-00424-00-SP	KANE	172	67
FAP 336				
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

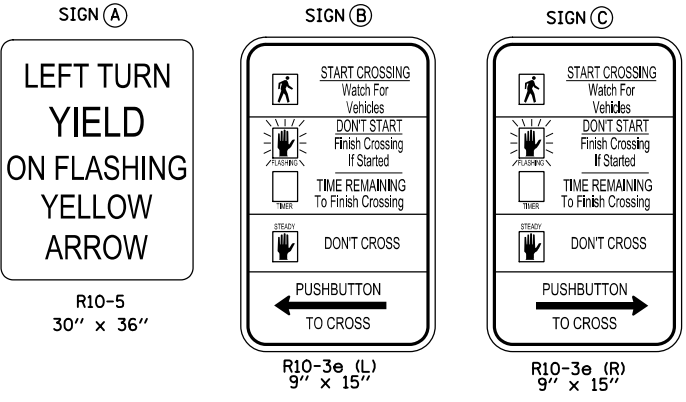
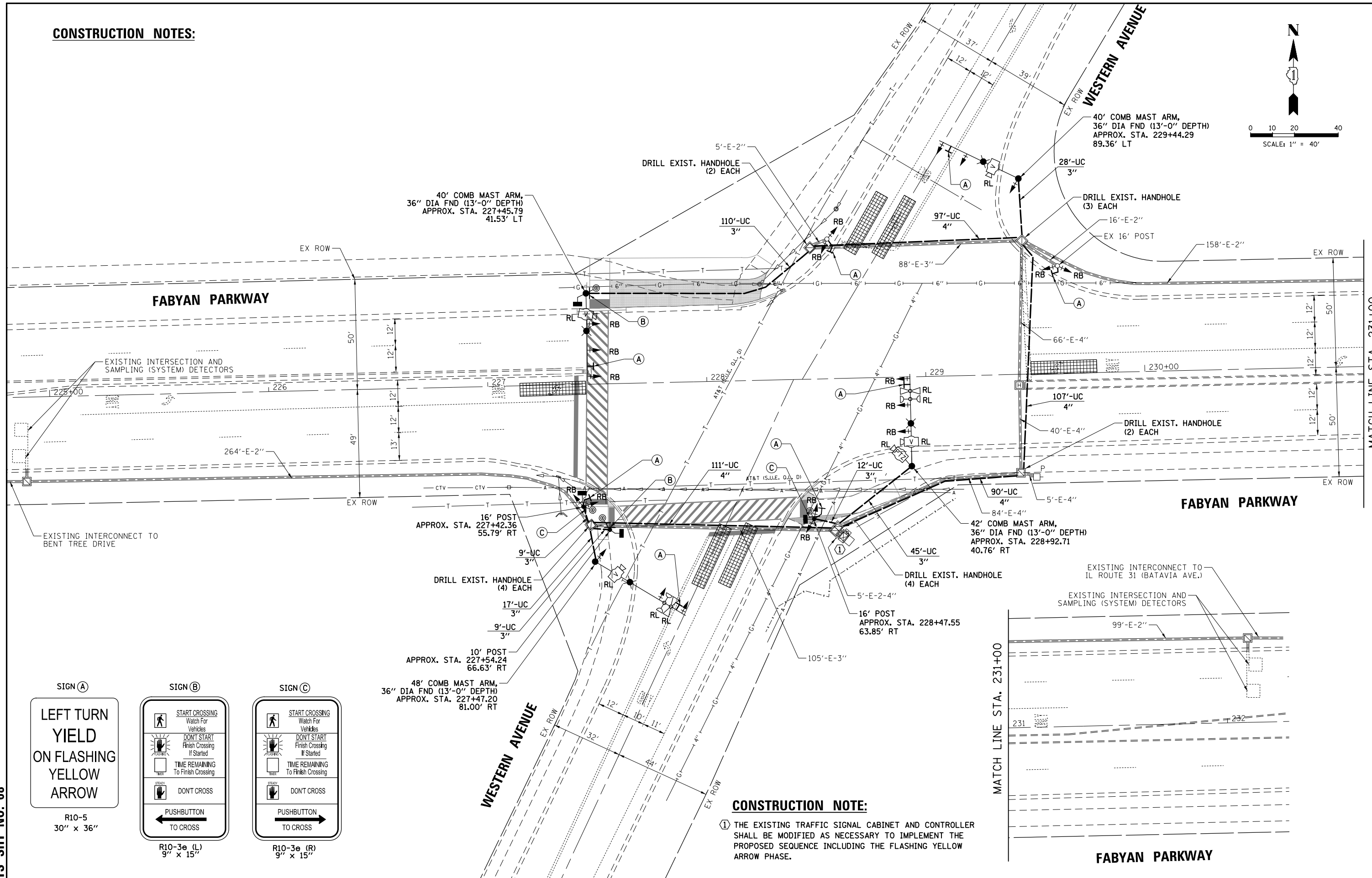
SCALE: SHEET NO. OF SHEETS STA. TO STA.

CONSTRUCTION NOTES:

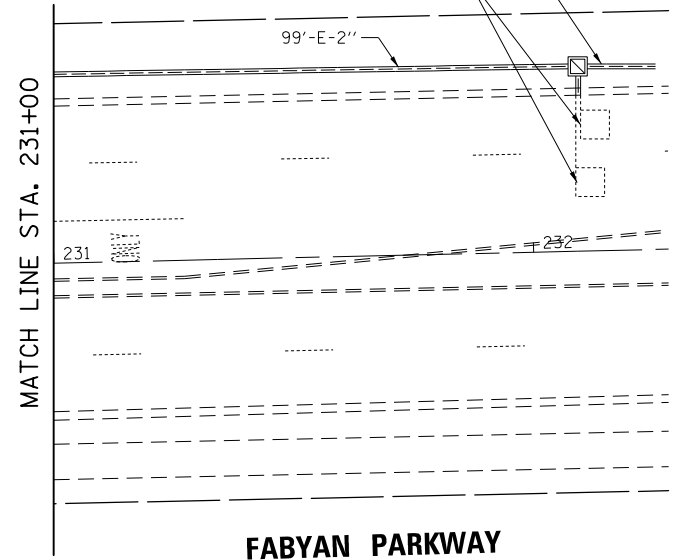


DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	
BY	

TS SHT NO. 68



CONSTRUCTION NOTE:
 ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.



FILE NAME	006.Fabyan-Western 02.MXD	DESIGNED -	TFS	REVISED -	
USER NAME	fbariso	DRAWN -	FPB	REVISED -	
PLOT SCALE	= 48"	CHECKED -	GMZ	REVISED -	
PLOT DATE	= 12/8/2017	DATE -	12/8/2017	REVISED -	

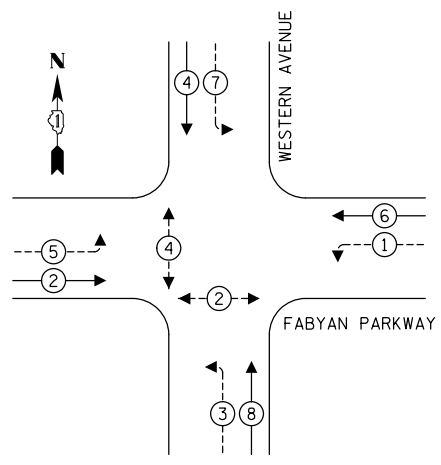
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODIFICATION PLAN FABYAN PARKWAY AND WESTERN AVENUE			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

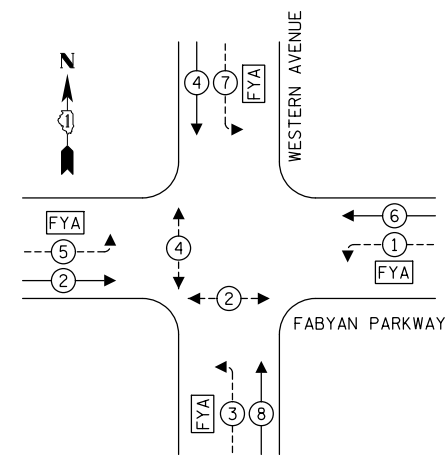
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	68
CONTRACT NO.				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSJP-0089(171)

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 PLAN: _____ NOTE BOOK: _____ RT. OF WAY CHECKED: _____
 NO. _____ NO. _____ FILE NAME: _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (630) 922-5500
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PLAN: _____ NOTE BOOK: _____ STRUCTURE NOTATIONS: OK/NO
 NO. _____ NO. _____

EXISTING CONTROLLER SEQUENCE



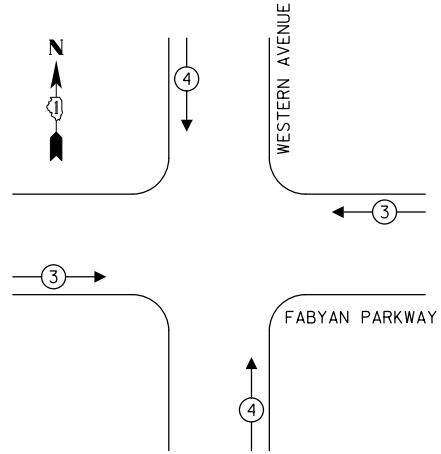
PROPOSED CONTROLLER SEQUENCE



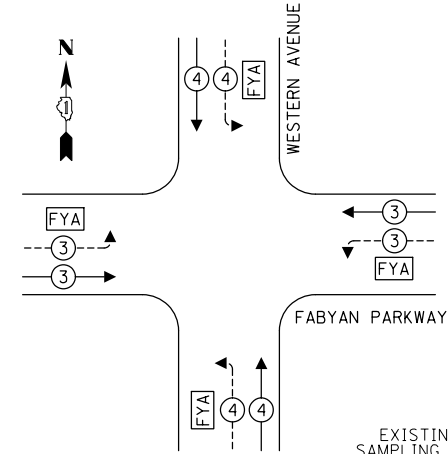
LEGEND:

- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP
- FYA FLASHING YELLOW ARROW

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



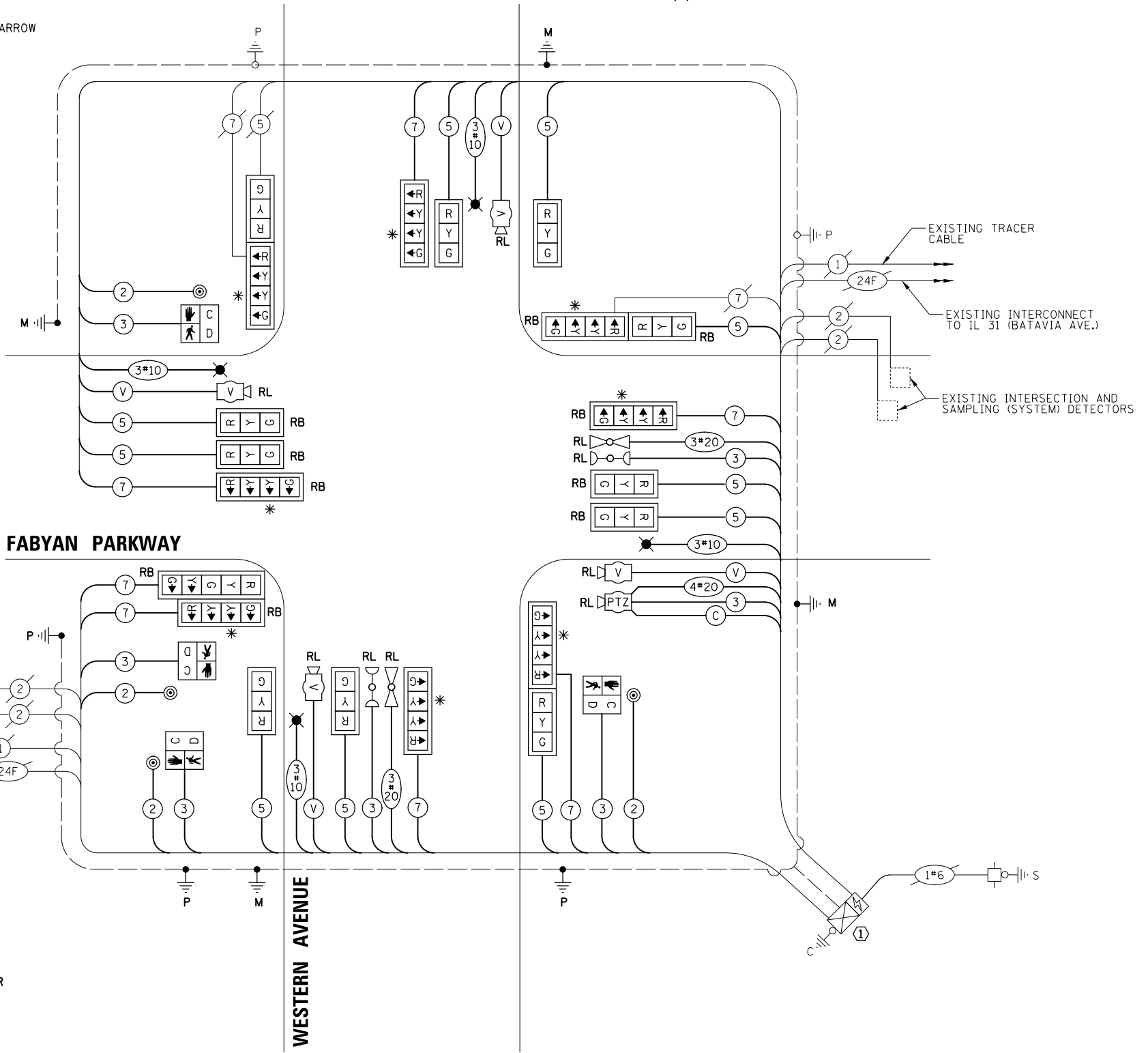
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	11	12	45	59.4
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1045.9

ENERGY COSTS TO:
 CITY OF GENEVA
 22 S. FIRST STREET
 GENEVA, ILLINOIS 60134
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: _____

CONSTRUCTION NOTE:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 69

FILE NAME 005.Fabyan-Western 03.CAB	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
FABYAN PARKWAY AND WESTERN AVENUE**

SCALE: _____ SHEET NO. _____ OF _____ SHEETS _____ STA. _____ TO STA. _____

F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 69
CONTRACT NO.			FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT _____ HSIP-0089(17)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	230
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	405
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	3,513
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	824
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,312
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,496
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,413
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	703
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
DRILL EXISTING HANDHOLE	EACH	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	13
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	4
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,660
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	349
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	113
ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	113
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
	BLM. NOTED		
	STRUCTURE NOTATIONS OK'NO		
PLAN	SURVEYED	BY	DATE
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	ADD. FILE NAME		

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-9500

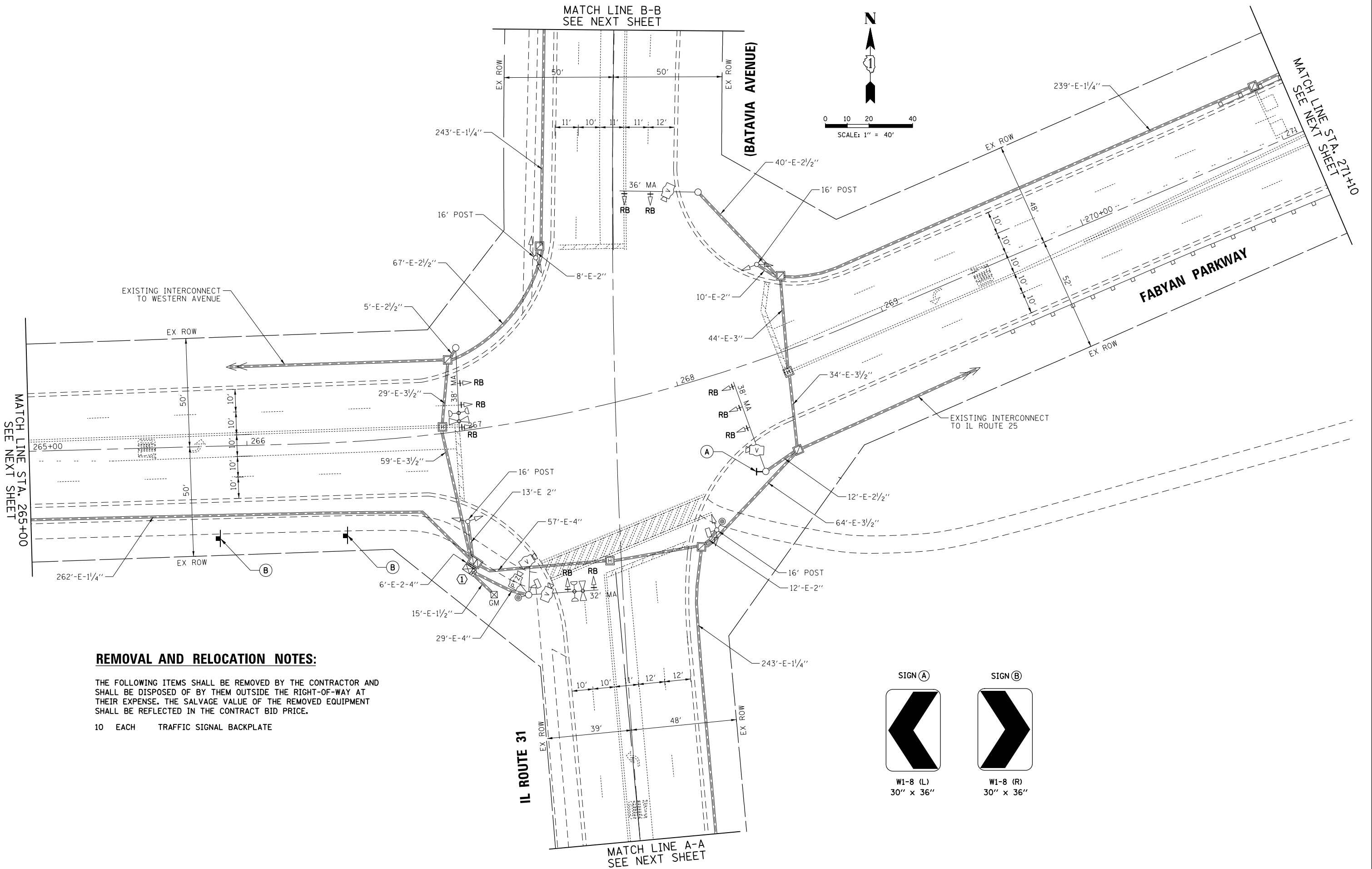


TS SHT NO. 70

FILE NAME 005.Fabyan-Western 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES FABYAN PARKWAY AND WESTERN AVENUE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN - FPB	REVISED -			FAP 363	12-00424-00-SP	KANE	172	70		
		CHECKED - GMZ	REVISED -			FAP 336						
		PLLOT SCALE = 48'	REVISED -			CONTRACT NO.						
		PLLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -	SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
		RT. OF WAY	FILE NAME		
PLAN	NO.	NO.	NO.	NO.	NO.
ENGINEERING LTD.	CHRISTOPHER B. BURKE 8575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (630) 922-5500				
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
		RT. OF WAY	FILE NAME		
PROFILE	NO.	NO.	NO.	NO.	NO.
STRUCTURE	NO.	NO.	NO.	NO.	NO.

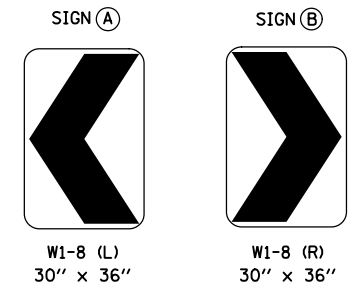
TS SHT NO. 71



REMOVAL AND RELOCATION NOTES:

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.

- 10 EACH TRAFFIC SIGNAL BACKPLATE



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
007_Fabyan-IL31 01.MXD		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
FABYAN PARKWAY AND IL ROUTE 31 (BATAVIA AVENUE)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363	12-00424-00-SP	KANE	172	71
FAP 336				
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

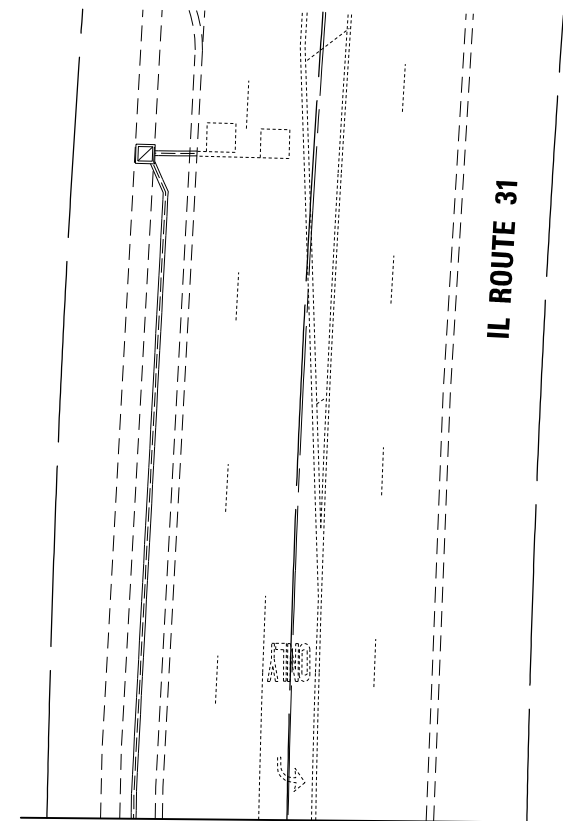
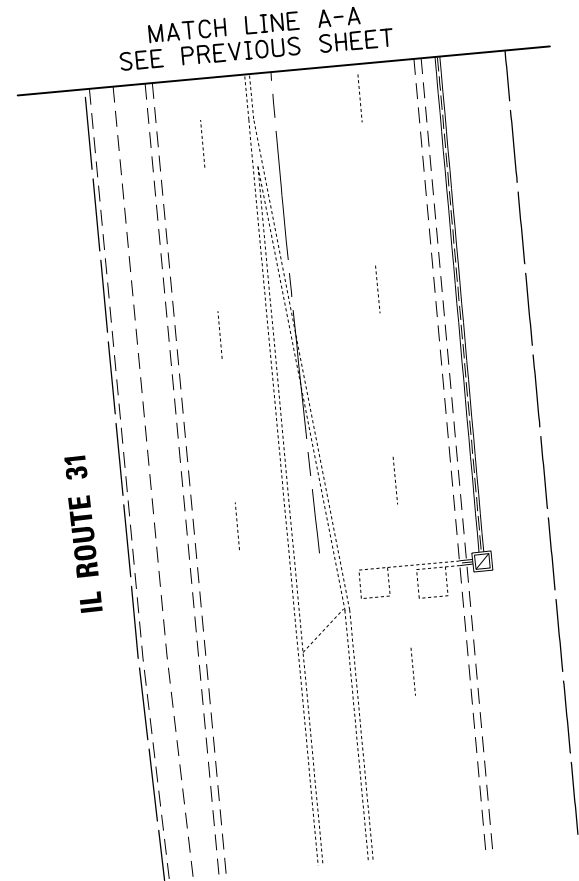
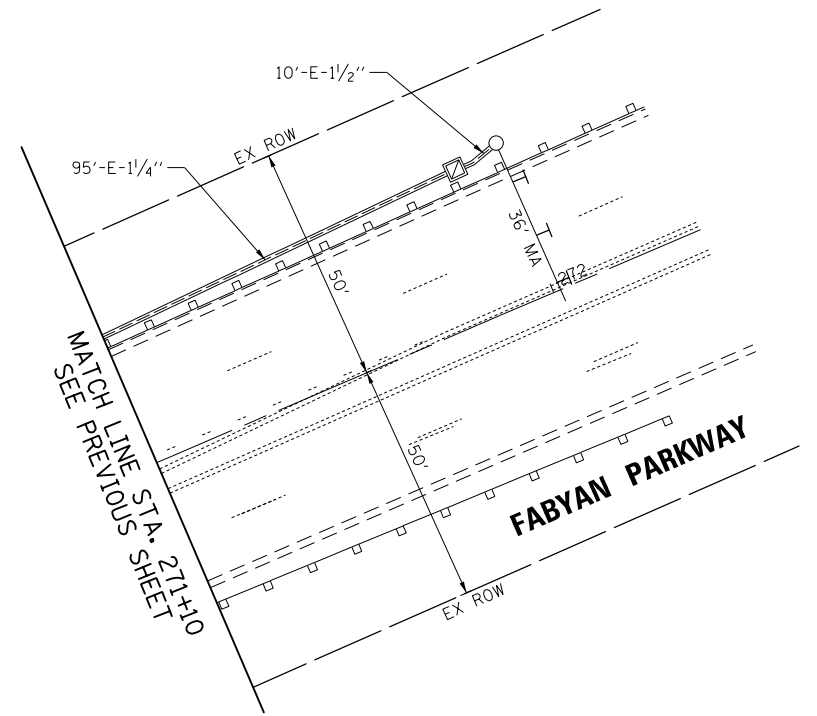
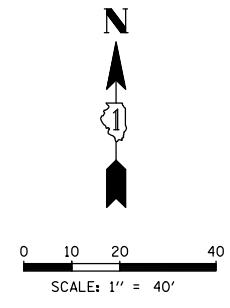
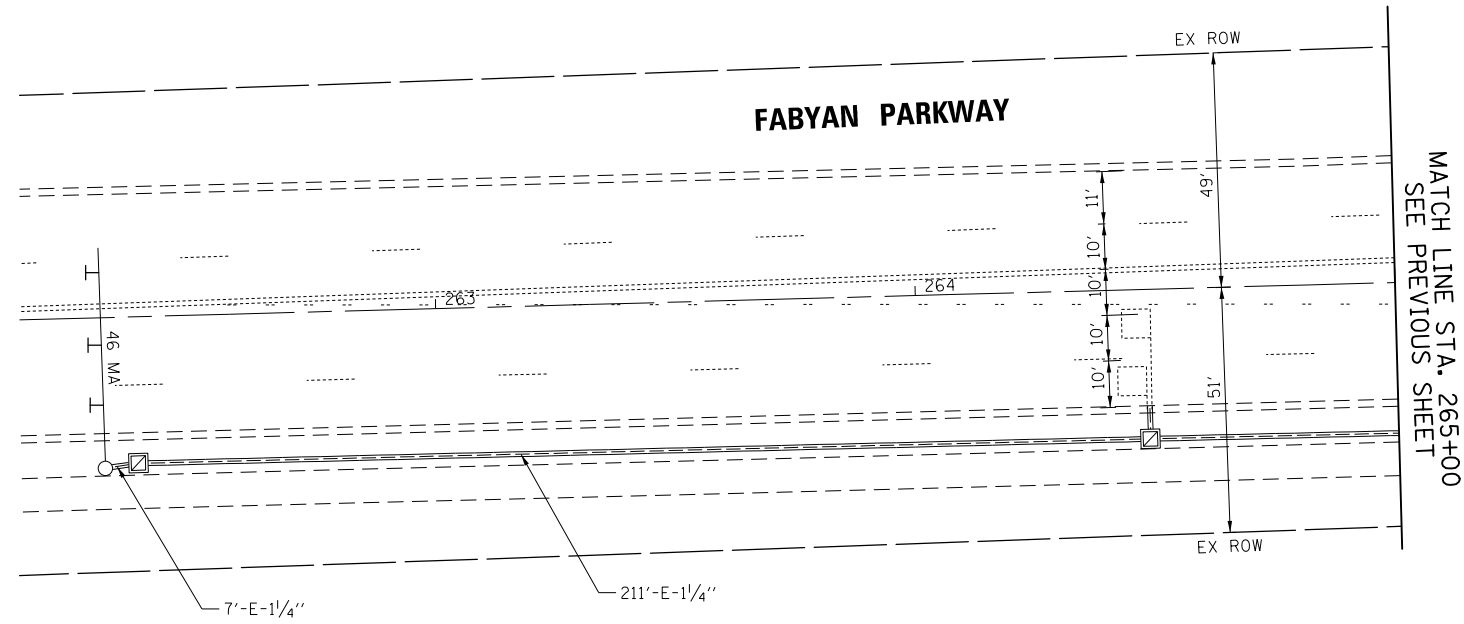
SCALE: SHEET NO. OF SHEETS STA. TO STA.

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	BLM. NOTED	
	STRUCTURE NOTATIONS OK'D	
PLAN	SURVEYED	DATE
NOTE BOOK NO.	ALIGNMENT CHECKED	BY
	RT. OF WAY CHECKED	
	PAID FILE NAME	

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Rosemont, Illinois 60018
(647) 923-5938

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	BLM. NOTED	
	STRUCTURE NOTATIONS OK'D	

TS SHT NO. 72



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
007_Fabyan-IL31 02.M0D2		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

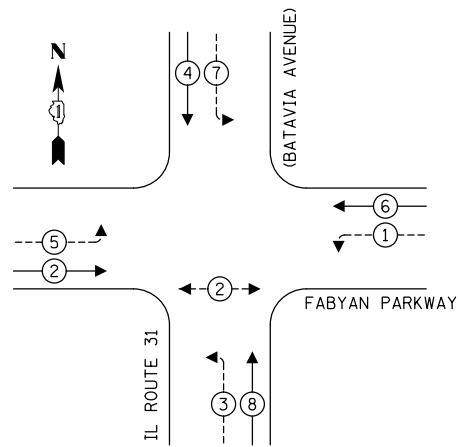
**TRAFFIC SIGNAL MODIFICATION PLAN
FABYAN PARKWAY AND IL ROUTE 31 (BATAVIA AVENUE)**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	72
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

BY: _____ DATE: _____
 SURVEYED _____
 ALIGNED _____
 RT. OF WAY CHECKED _____
 CAD FILE NAME _____
 PLAN NO. _____
 NOTE BOOK NO. _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 823-5500
 BY: _____ DATE: _____
 SURVEYED _____
 GRADES CHECKED _____
 ELEM. NOTED _____
 STRUCTURE NOTATIONS OKWD _____
 PROFILE NO. _____
 NOTE BOOK NO. _____

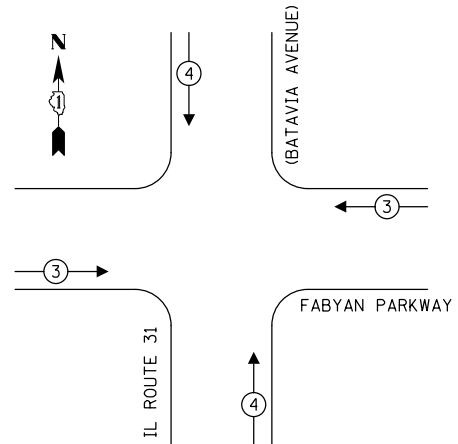
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * → OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



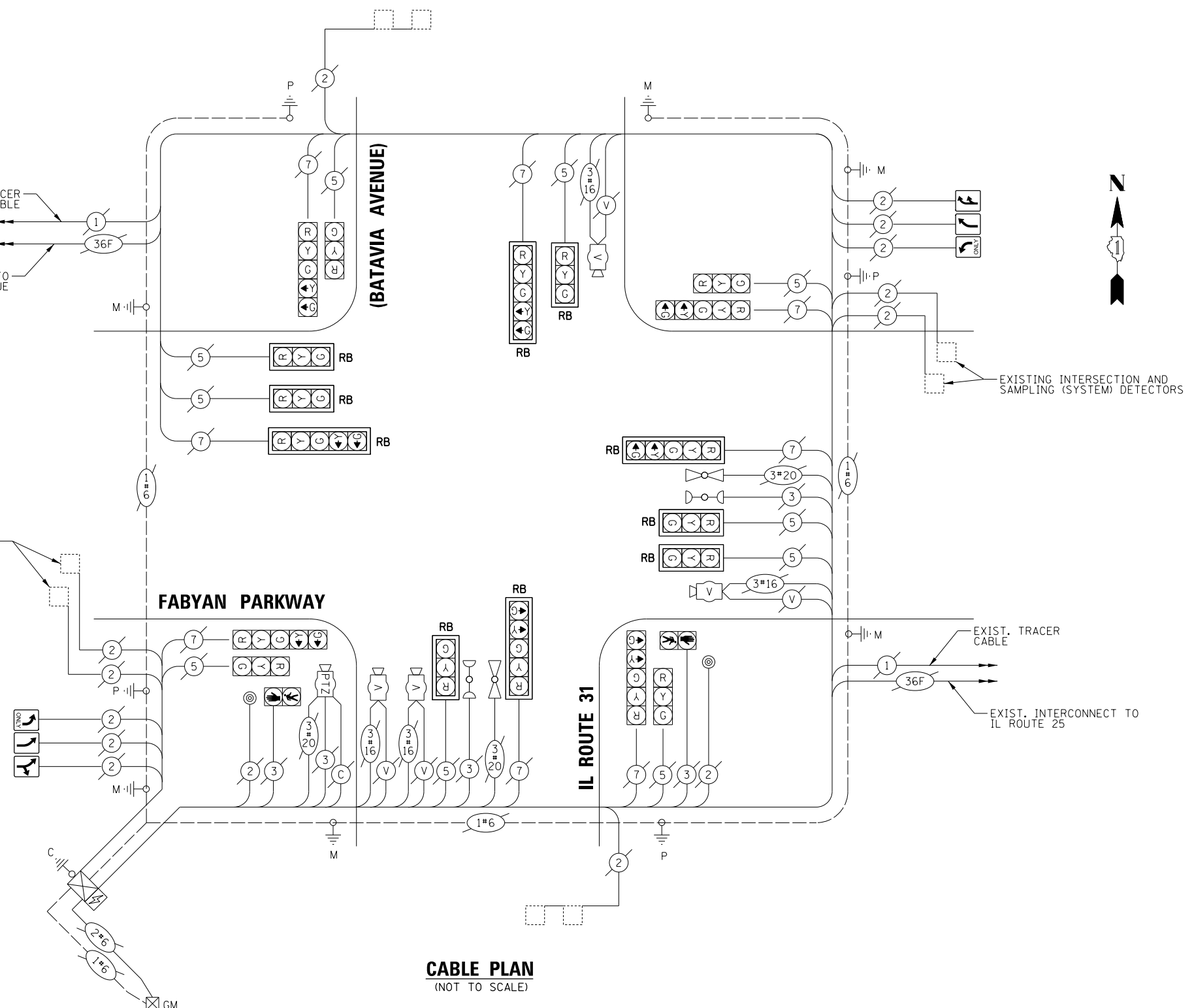
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
SOLID ARROW (RED)	-	10	50	-
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	-	10	5	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
ILLUMINATED SIGN	6	120	50	360.0
LUMINAIRE	-	250	50	-
TOTAL =				905.2

ENERGY COSTS TO:
 CITY OF BATAVIA
 400 S. SHUMWAY AVENUE
 BATAVIA, ILLINOIS 60510
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	23
TELESCOPING STEEL SIGN SUPPORT	FOOT	36
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 73

FILE NAME 007_Fabyan-IL31 03.CAB	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
FABYAN PARKWAY AND IL ROUTE 31 (BATAVIA AVENUE)**

SCALE: _____ SHEET NO. _____ OF _____ SHEETS _____ STA. _____ TO STA. _____

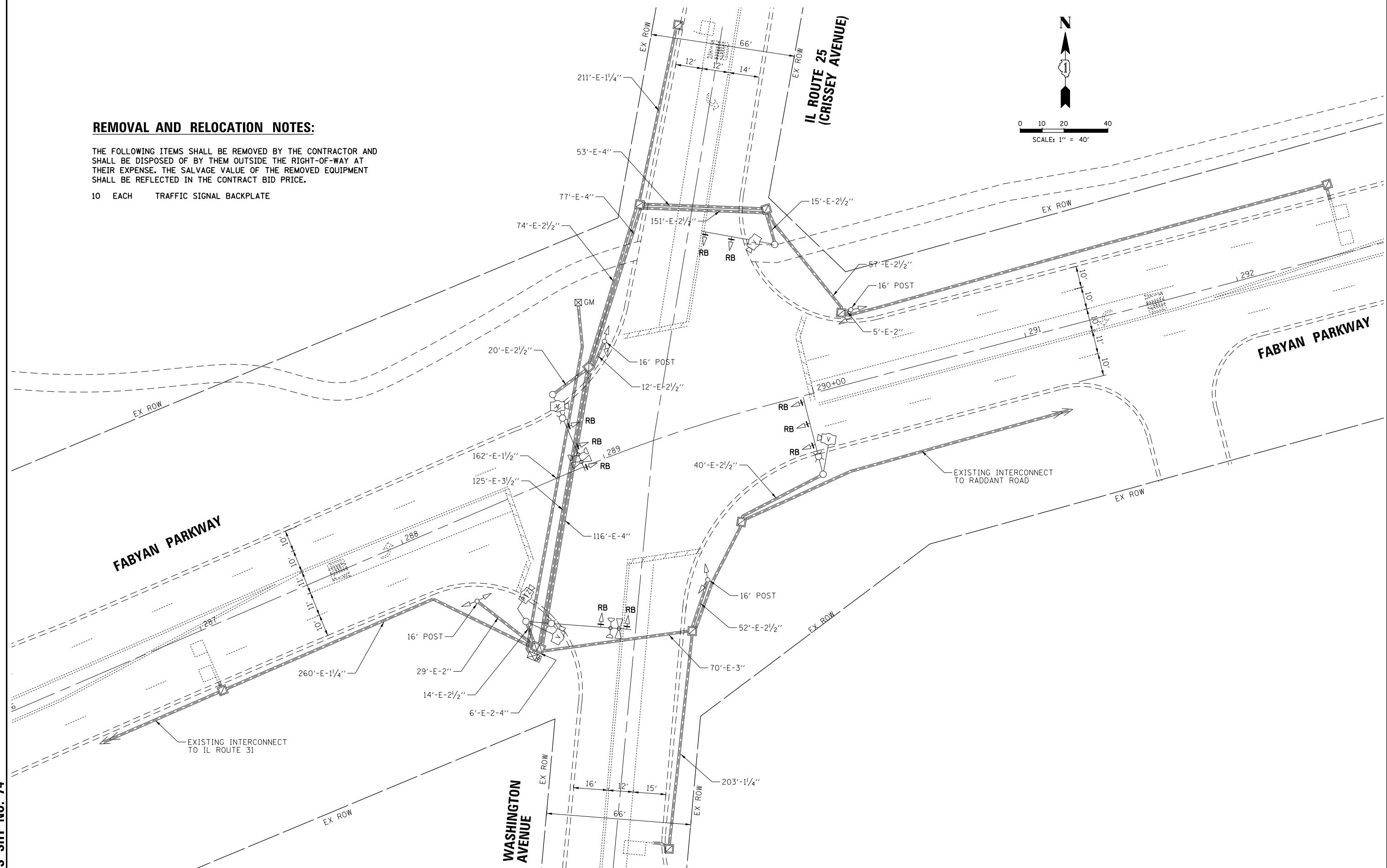
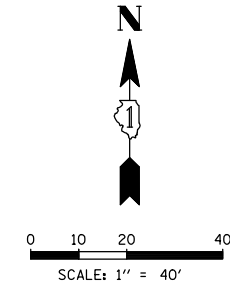
F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 73
CONTRACT NO.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(17)	

DATE	BY	DATE	BY
PLAN	ENGINEERING LTD.	PROFILE	ENGINEERING LTD.
NO.		NO.	
CHRISTOPHER B. BURKE 3575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (647) 923-5938		SURVEYED GRADES CHECKED ELEM. NOTED STRUCTURE NOTATIONS OKWD	
SURVEYED ALIGNMENT CHECKED RT. OF WAY CHECKED CAD FILE NAME		SURVEYED GRADES CHECKED ELEM. NOTED STRUCTURE NOTATIONS OKWD	

REMOVAL AND RELOCATION NOTES:

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.

- 10 EACH TRAFFIC SIGNAL BACKPLATE



TS SHT NO. 74

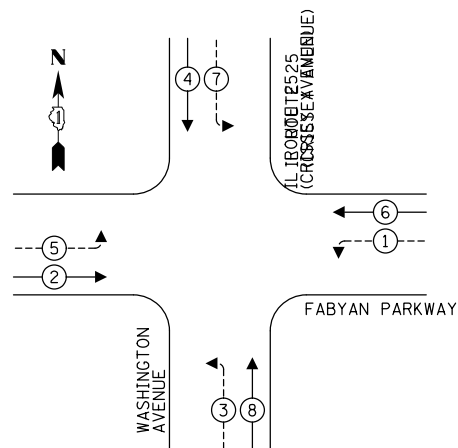
FILE NAME 008.Fabyan-IL25 01.MXD	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN FABYAN PARKWAY AND WASHINGTON AVENUE / IL ROUTE 25 (CRISSEY AVENUE)				F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 74
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.			
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		FED. ROAD DIST. NO.								
									ILLINOIS FED. AID PROJECT HSIP-0089(171)				

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

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 Rosemont, Illinois 60018
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PROFILE SURVEYED GRADES CHECKED
 NOTE BOOK NO. 12345678
 STRUCTURE NOTATIONS OKWD

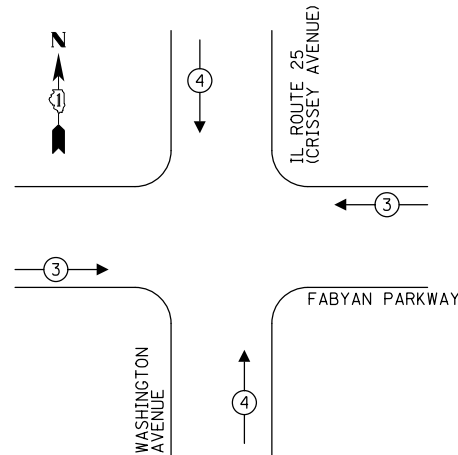
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ←(*) PROTECTED PHASE
- ←(*)- - PROTECTED/PERMITTED PHASE
- ←(*)→ PEDESTRIAN PHASE
- ←(OL) OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
SOLID ARROW (RED)	-	10	50	-
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	-	10	5	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
TOTAL =				505.2

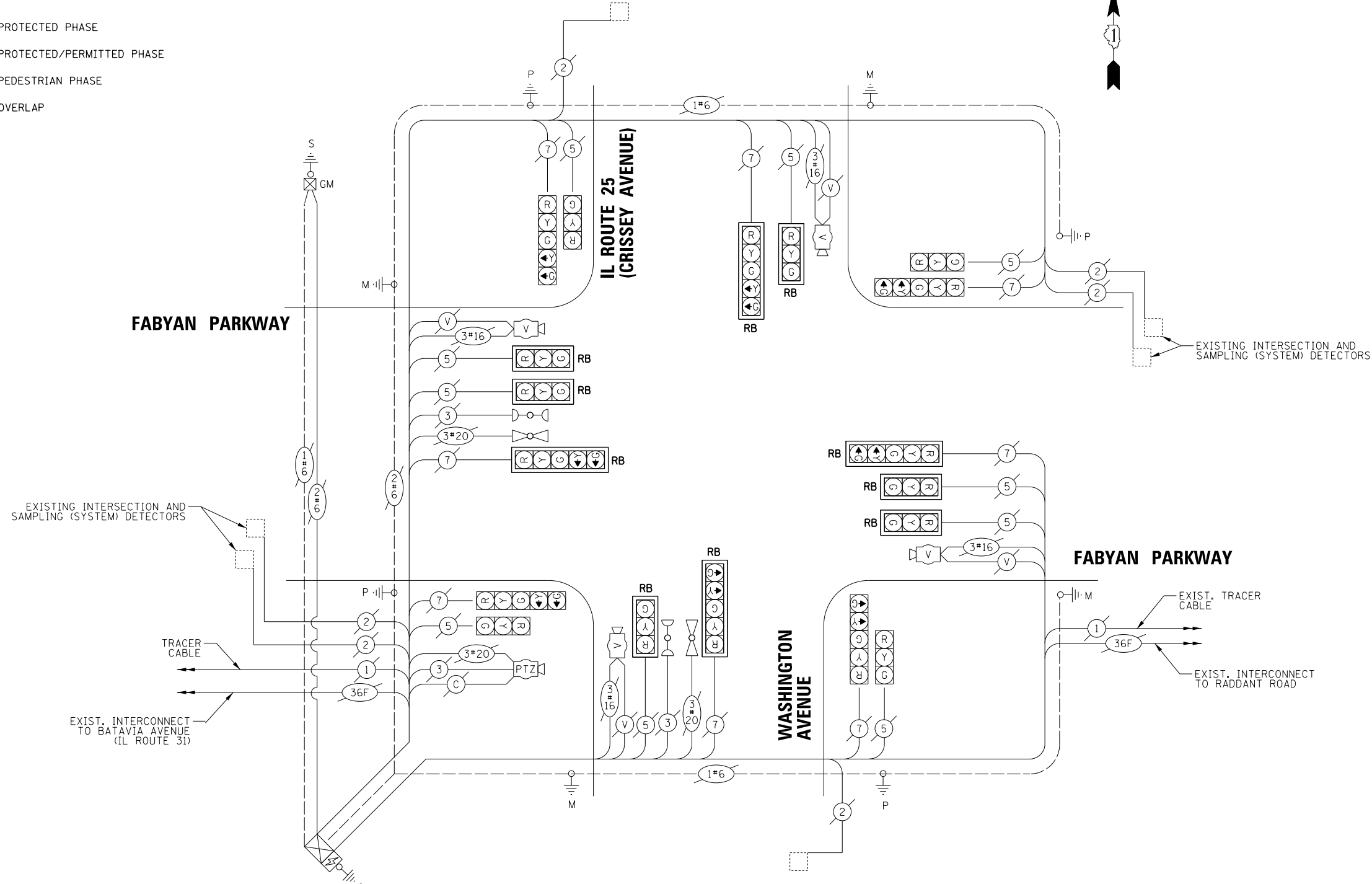
ENERGY COSTS TO:
 CITY OF BATAVIA
 400 S. SHUMWAY AVENUE
 BATAVIA, ILLINOIS 60510
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

FABYAN PARKWAY

IL ROUTE 25 (CRISSEY AVENUE)

FABYAN PARKWAY

WASHINGTON AVENUE



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
 DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 FABYAN PARKWAY & WASHINGTON AVE / IL ROUTE 25 (CRISSEY AVE.)

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 75
CONTRACT NO.			HSIP-0089(171)	

FILE NAME 008_Fabyan-IL25 02-CAB
 USER NAME = fbariso
 DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 PLOT DATE = 12/8/2017

DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE - 12/8/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -

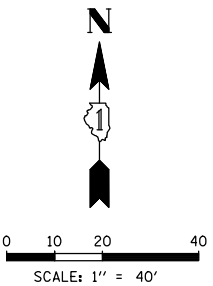
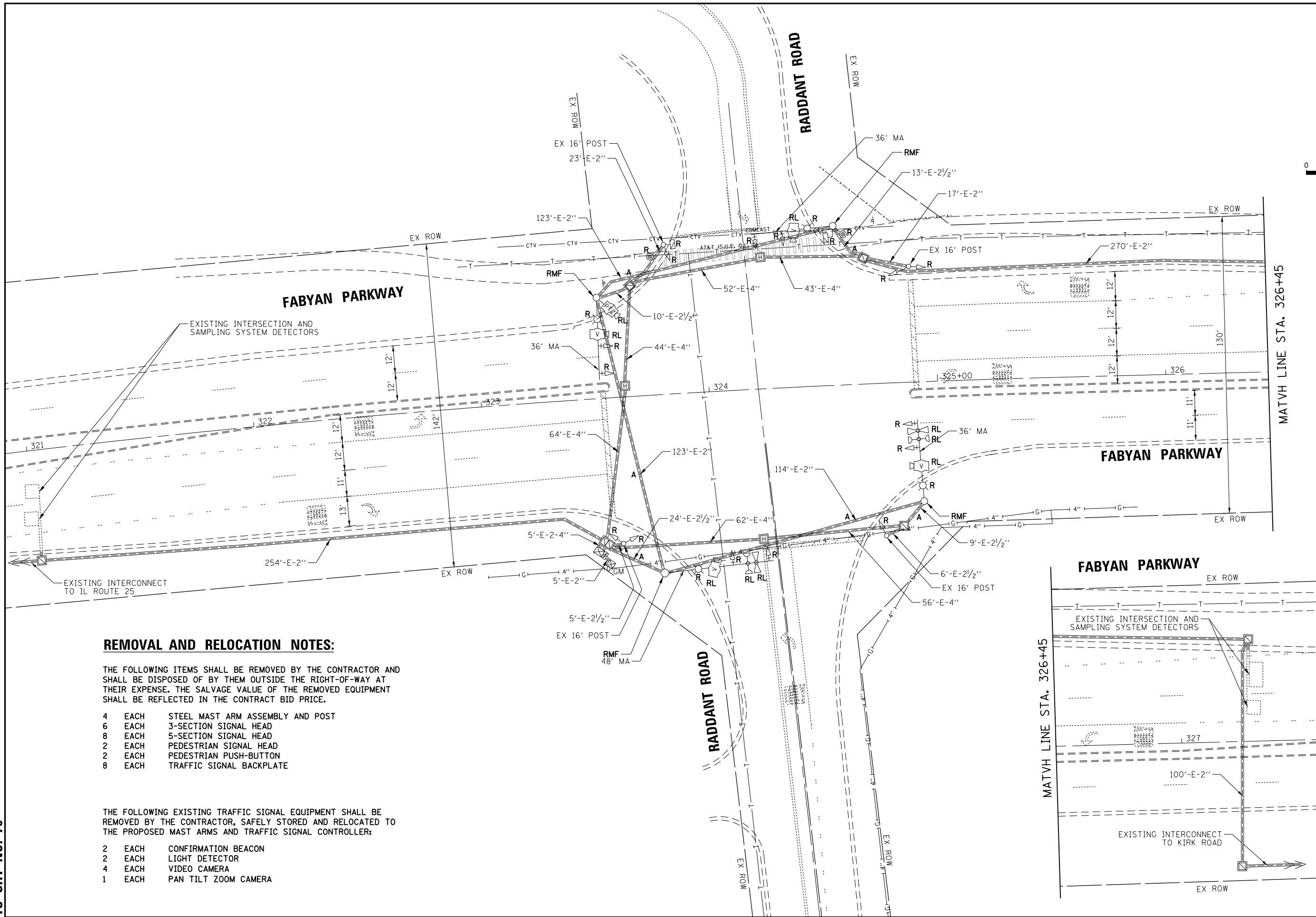
SCALE: SHEET NO. OF SHEETS STA. TO STA.

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

TS SHT NO. 75

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
		PLAN	NOTE BOOK	NO.	
CHRISTOPHER B. BURKE ENGINEERING LTD. 8575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (630) 923-5930					
DATE	BY	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D
		PROFILE	NOTE BOOK	NO.	

TS SHT NO. 76



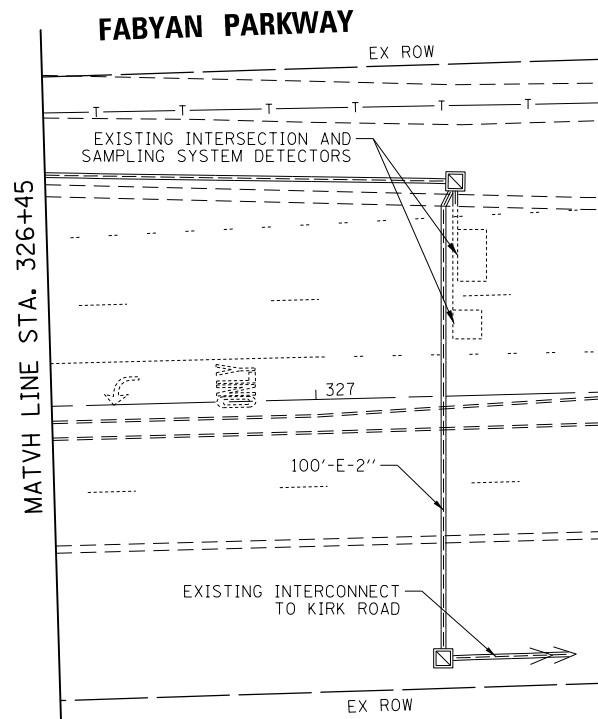
REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 4 EACH VIDEO CAMERA
- 1 EACH PAN TILT ZOOM CAMERA



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
009_Fabyan-Raddant 01.REM		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

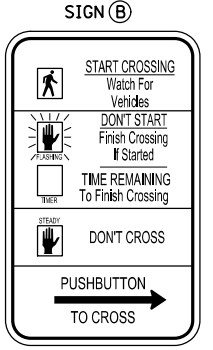
**TRAFFIC SIGNAL REMOVAL PLAN
FABYAN PARKWAY AND RADDANT ROAD**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	76
CONTRACT NO.				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		HSIP-0089(171)

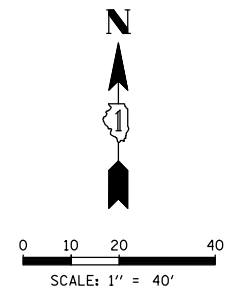
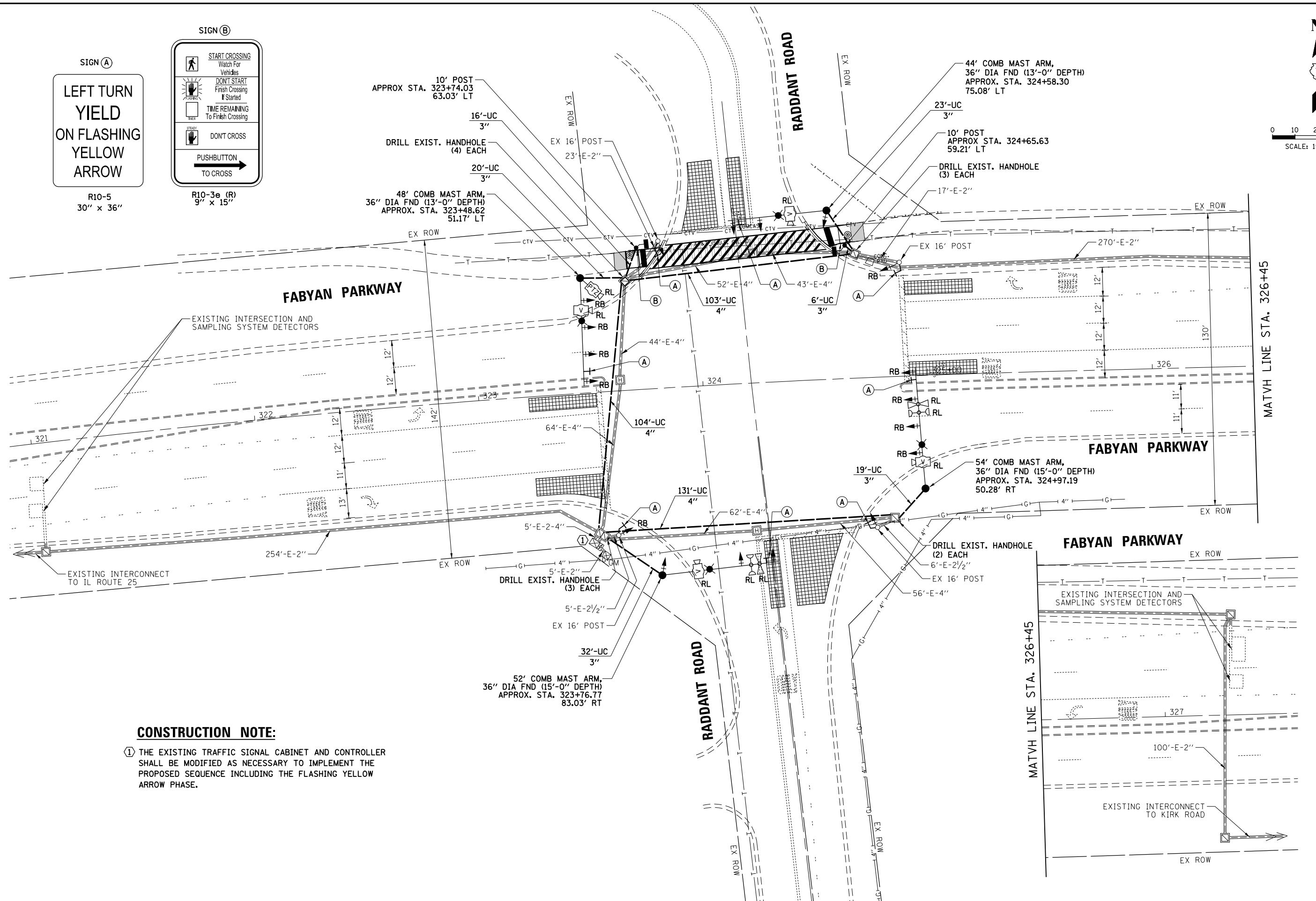
DATE: _____ BY: _____
 SURVEYED: _____ CHECKED: _____
 PLAN: _____ NO. _____
 SURVEYED: _____ CHECKED: _____
 PROFILE: _____ NO. _____
 DATE: _____ BY: _____
 SURVEYED: _____ CHECKED: _____
 PROFILE: _____ NO. _____

TS SHT NO. 77



CONSTRUCTION NOTE:

① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.



FILE NAME 009_Fabyan-Raddant 02.MXD	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
FABYAN PARKWAY AND RADDANT ROAD**

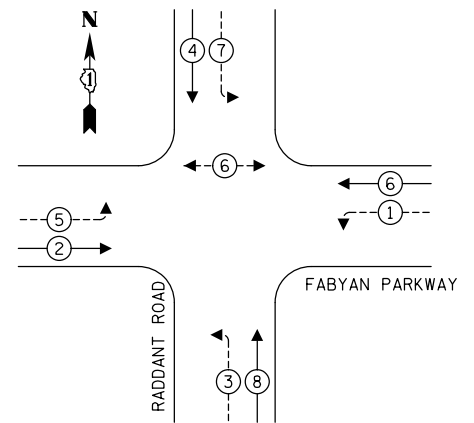
SCALE: _____ SHEET NO. _____ OF _____ SHEETS _____ STA. _____ TO STA. _____

F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 77
CONTRACT NO.			HSIP-0089(171)	

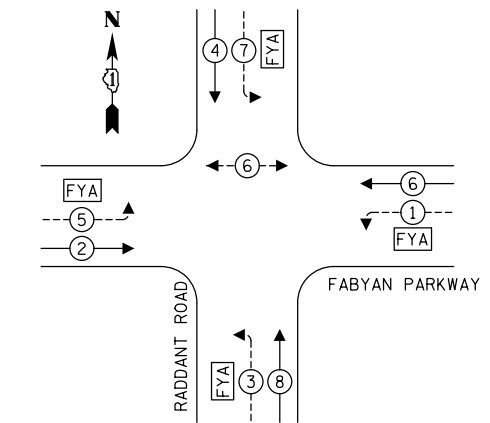
DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 PLAN: _____ NOTE BOOK NO. _____
 SURVEYED: _____ GRADES CHECKED: _____
 PROFILE: _____ STRUCTURE NOTATIONS: _____
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 NOTE BOOK NO. _____

TS SHT NO. 78

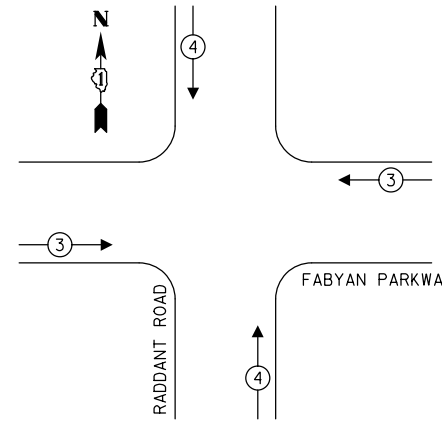
EXISTING CONTROLLER SEQUENCE



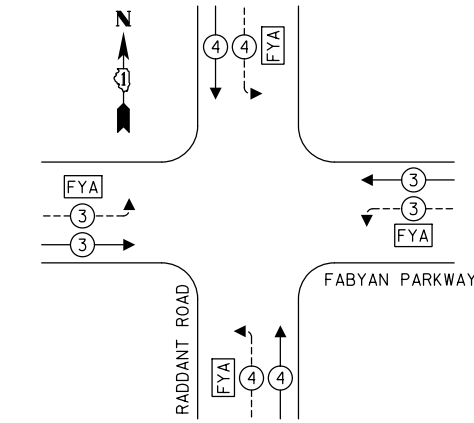
PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ — OVERLAP
- FYA — FLASHING YELLOW ARROW

LEGEND:

- * = INDICATES FLASHING YELLOW ARROW

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

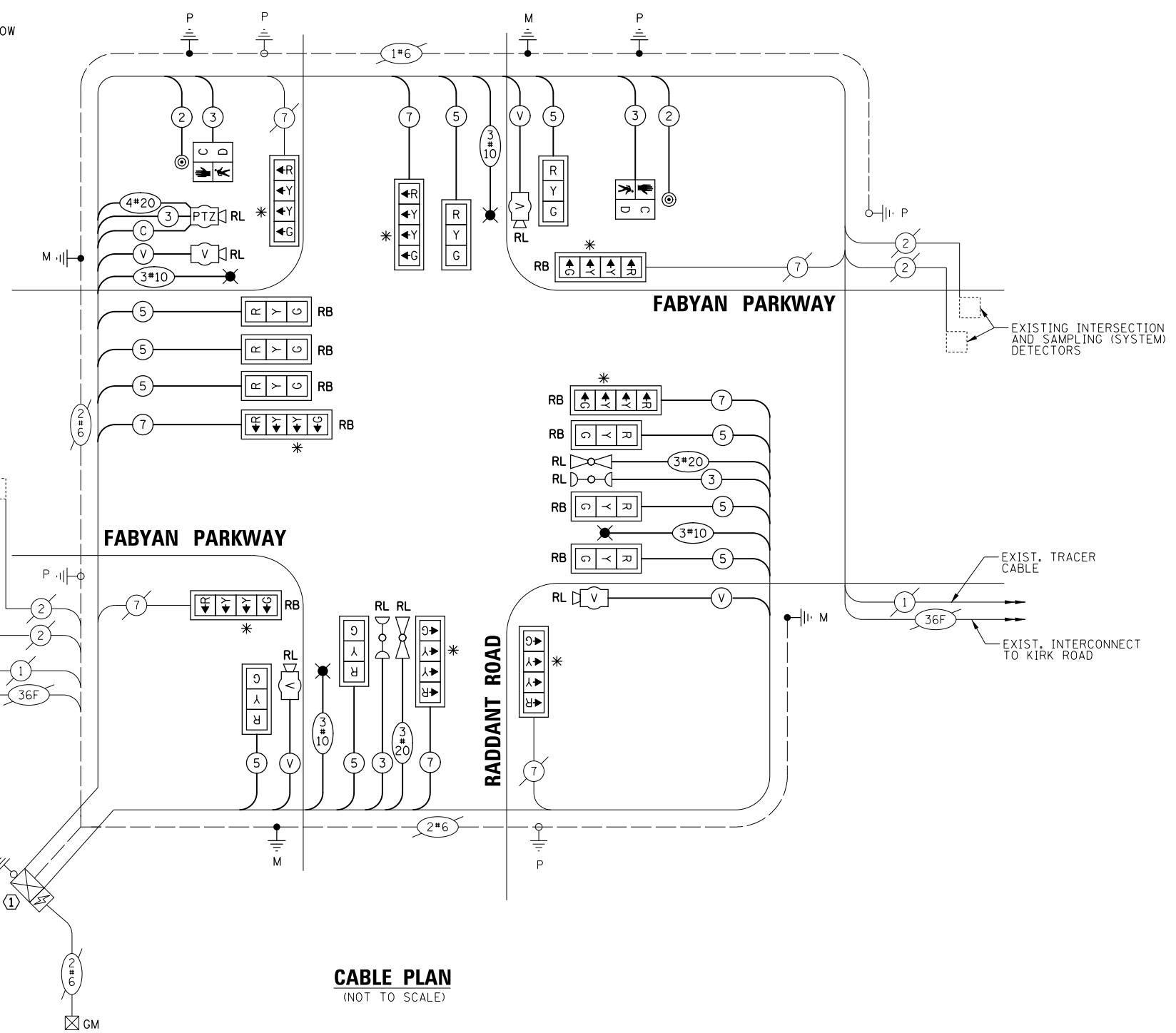
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1017.8

ENERGY COSTS TO:
 CITY OF BATAVIA
 400 S. SHUMWAY AVENUE
 BATAVIA, ILLINOIS 60510

ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: _____

CONSTRUCTION NOTE:

- ① THE EXISTING TRAFFIC SIGNAL CABINET SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.



CABLE PLAN
(NOT TO SCALE)

DESIGNED - TFS	REVISED -
DRAWN - FPB	REVISED -
CHECKED - GMZ	REVISED -
DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE FABYAN PARKWAY AND RADDANT ROAD			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE. 363	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 78
F.A.P. 336	CONTRACT NO.		HSP-0089(171)	

SCHEDULE OF QUANTITIES

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
No.	BLM. NOTED		
	STRUCTURE NOTATIONS		
	CHKD		
PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNMENT CHECKED		
No.	RT. OF WAY CHECKED		
	ADD. FILE NAME		

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 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 922-5500



TS SHT NO. 79

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	116
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	338
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,676
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	405
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,344
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,090
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	969
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	491
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	10
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	727
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

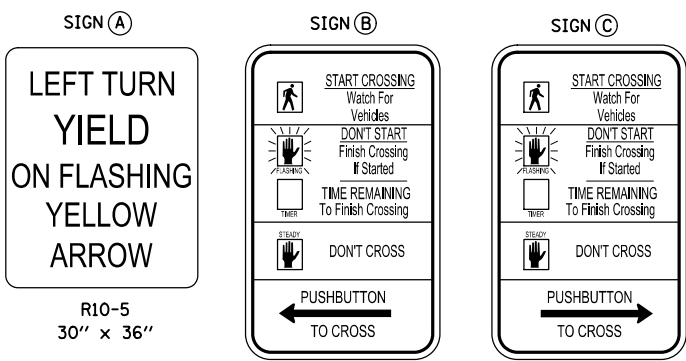
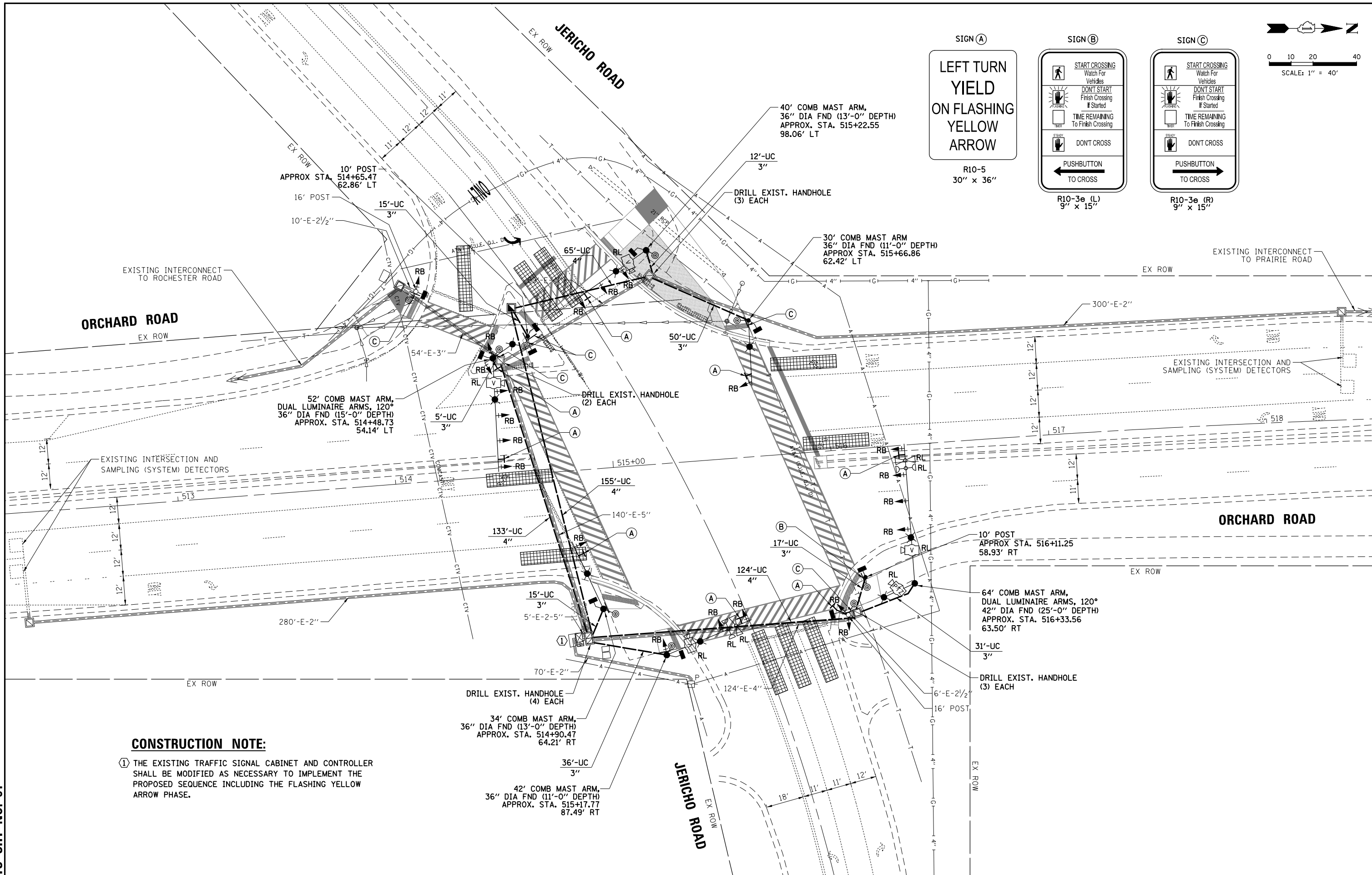
FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, FABYAN PARKWAY AND RADDANT ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
009.Fabyan-Raddant 03.CAB-2		DRAWN - FPB	REVISED -			FAP 363	12-00424-00-SP	KANE	172	79	
		CHECKED - GMZ	REVISED -			CONTRACT NO.					
		PLOT SCALE = 48'	DATE - 12/8/2017			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	FILE NAME
DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	FILE NAME
DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	FILE NAME

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (630) 922-5900

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	FILE NAME
DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	FILE NAME

TS SHT NO. 81



CONSTRUCTION NOTE:
 ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.

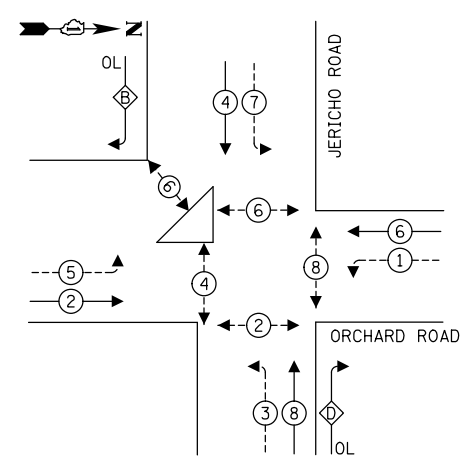
FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN ORCHARD ROAD AND JERICO ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
011.Orchard-Jericho 02.MXD		DRAWN - FPB	REVISED -			FAP 363	12-00424-00-SP	KANE	172	81	
		CHECKED - GMZ	REVISED -			FAP 336					
		PLOT DATE = 12/8/2017	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.
		DATE = 12/8/2017	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 PLAN: _____ NO. OF WAY CHECKED: _____
 NOTE BOOK: _____
 NO. _____
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PROFILE: _____ STRUCTURE NOTATIONS: _____
 NOTE BOOK: _____
 NO. _____

TS SHT NO. 82

ENGINEERING LTD.
CHRISTOPHER B. BURKE
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 923-5930

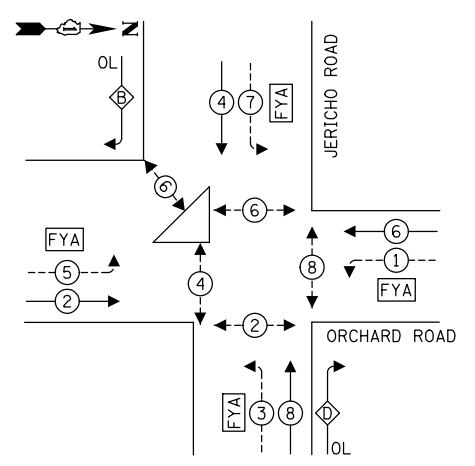
CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

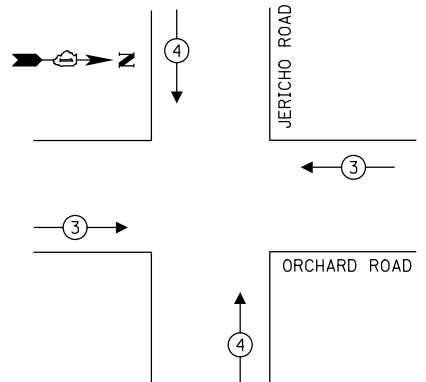
CONTROLLER SEQUENCE



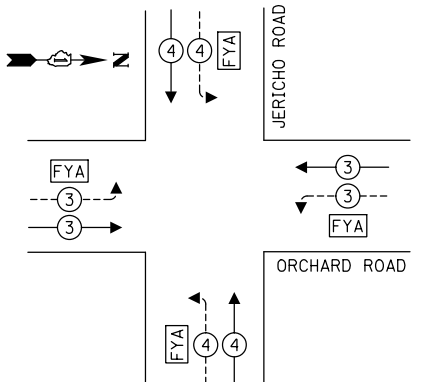
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	11	12	45	59.4
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	24	10	10	24.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	10	20	100	200.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	6	250	50	750.0
TOTAL =				1423.9

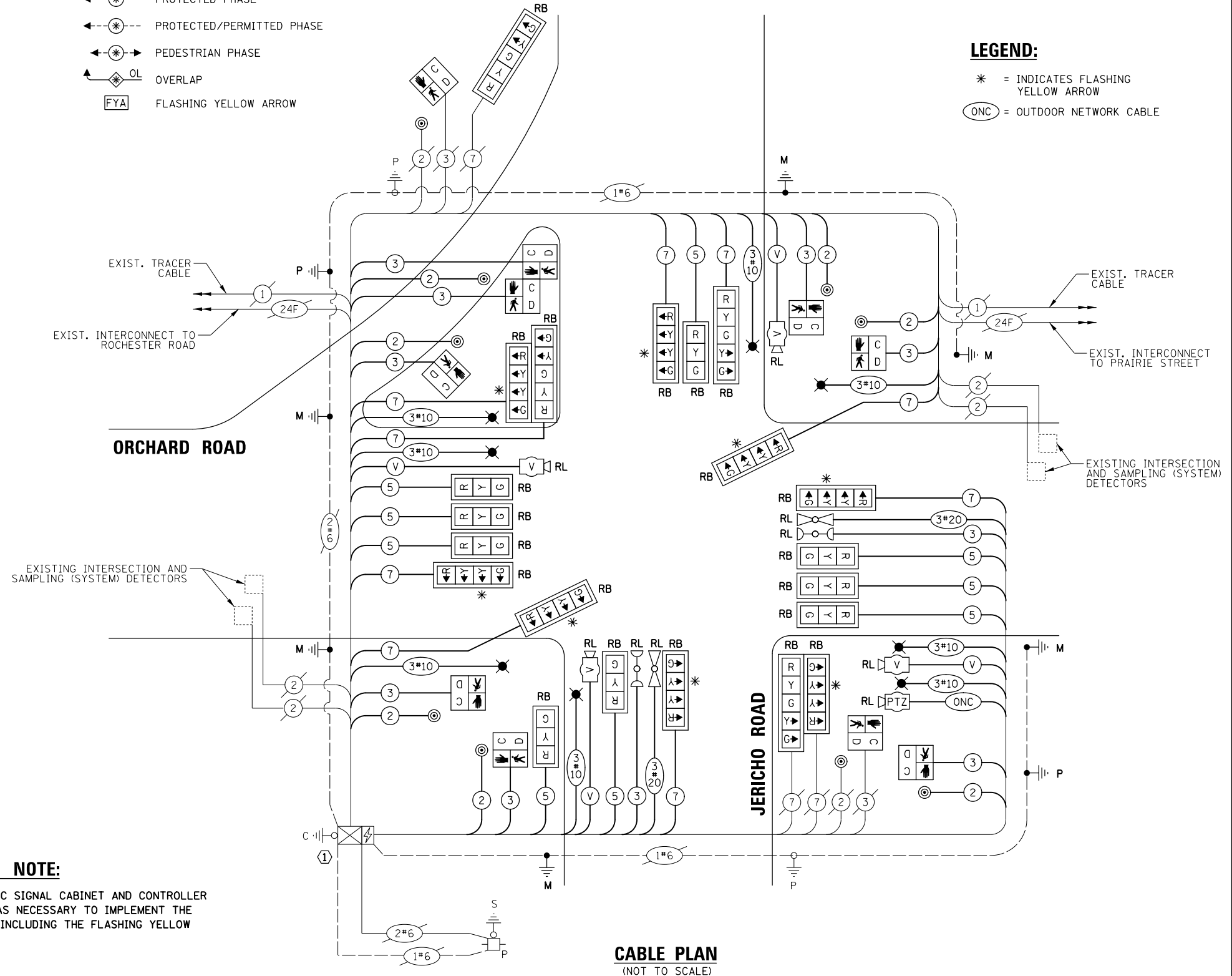
ENERGY COSTS TO:
 KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, IL 60175
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

LEGEND:

- ← (circle with asterisk) → PROTECTED PHASE
- ← (circle with asterisk and dashed line) → PROTECTED/PERMITTED PHASE
- ← (circle with asterisk and pedestrian symbol) → PEDESTRIAN PHASE
- ← (circle with asterisk and OL) → OVERLAP
- ← (circle with asterisk and FYA) → FLASHING YELLOW ARROW

LEGEND:

- * = INDICATES FLASHING YELLOW ARROW
- (ONC) = OUTDOOR NETWORK CABLE



CONSTRUCTION NOTE:

① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.

CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ORCHARD ROAD AND JERICHO ROAD

FILE NAME 011_Orchard-Jericho 03.CAB	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 82
SCALE:		SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO.
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		HSIP-0089(171)

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	183
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	337
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	5,553
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	6
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,255
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,934
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,894
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,097
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	785
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	61
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
DRILL EXISTING HANDHOLE	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10
TRAFFIC SIGNAL BACKPLATE	EACH	6
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	15
PEDESTRIAN PUSH-BUTTON	EACH	9
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,288
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	383
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
MAINTAIN EXISTING LIGHTING SYSTEM	LSUM	1

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
	BLM. NOTED		
	STRUCTURE NOTATIONS OK'XO		
PLAN	SURVEYED	BY	DATE
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	ADD. FILE NAME		

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 Rosemont, Illinois 60018
 (647) 923-9500



TS SHT NO. 83

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND JERICHO ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
011_Orchard-Jericho 03.CAB-2		DRAWN - FPB	REVISED -		FAP 363	12-00424-00-SP	KANE	172	83			
		CHECKED - GMZ	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO.				
		PLOT DATE = 12/8/2017	DATE - 12/8/2017					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

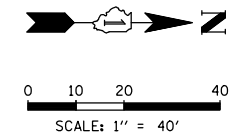
REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH LUMINAIRES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 6 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH VIDEO CAMERA
- 1 EACH PAN TILT ZOOM CAMERA

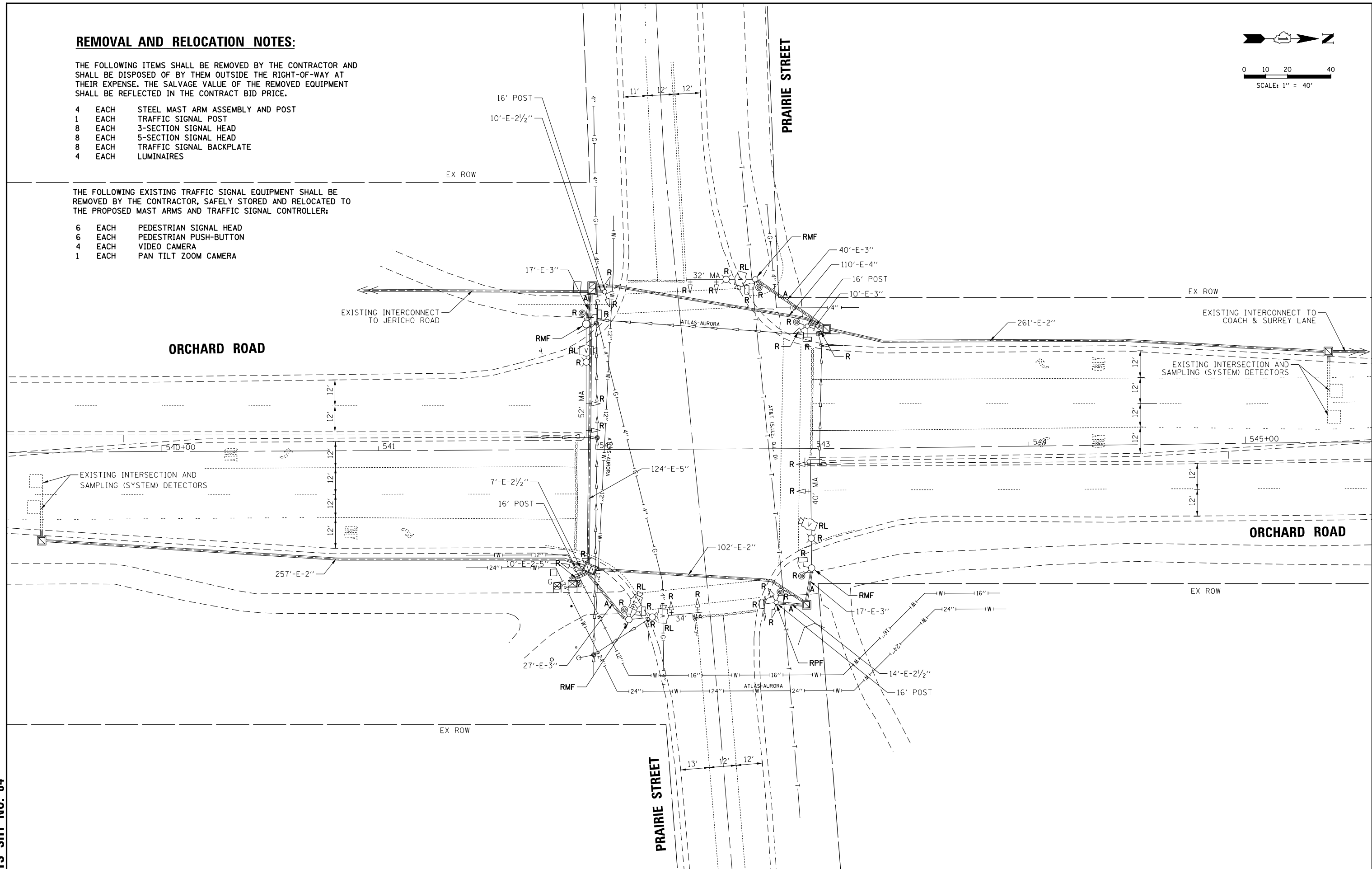


DATE	BY	DATE	BY
DATE	BY	DATE	BY

CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 823-5500

DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO. 84



FILE NAME 012.Orchard-Prairie 01.REM	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL REMOVAL PLAN ORCHARD ROAD AND PRAIRIE STREET				F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 84
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.			
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)								

DATE: _____ BY: _____

PLAN: _____

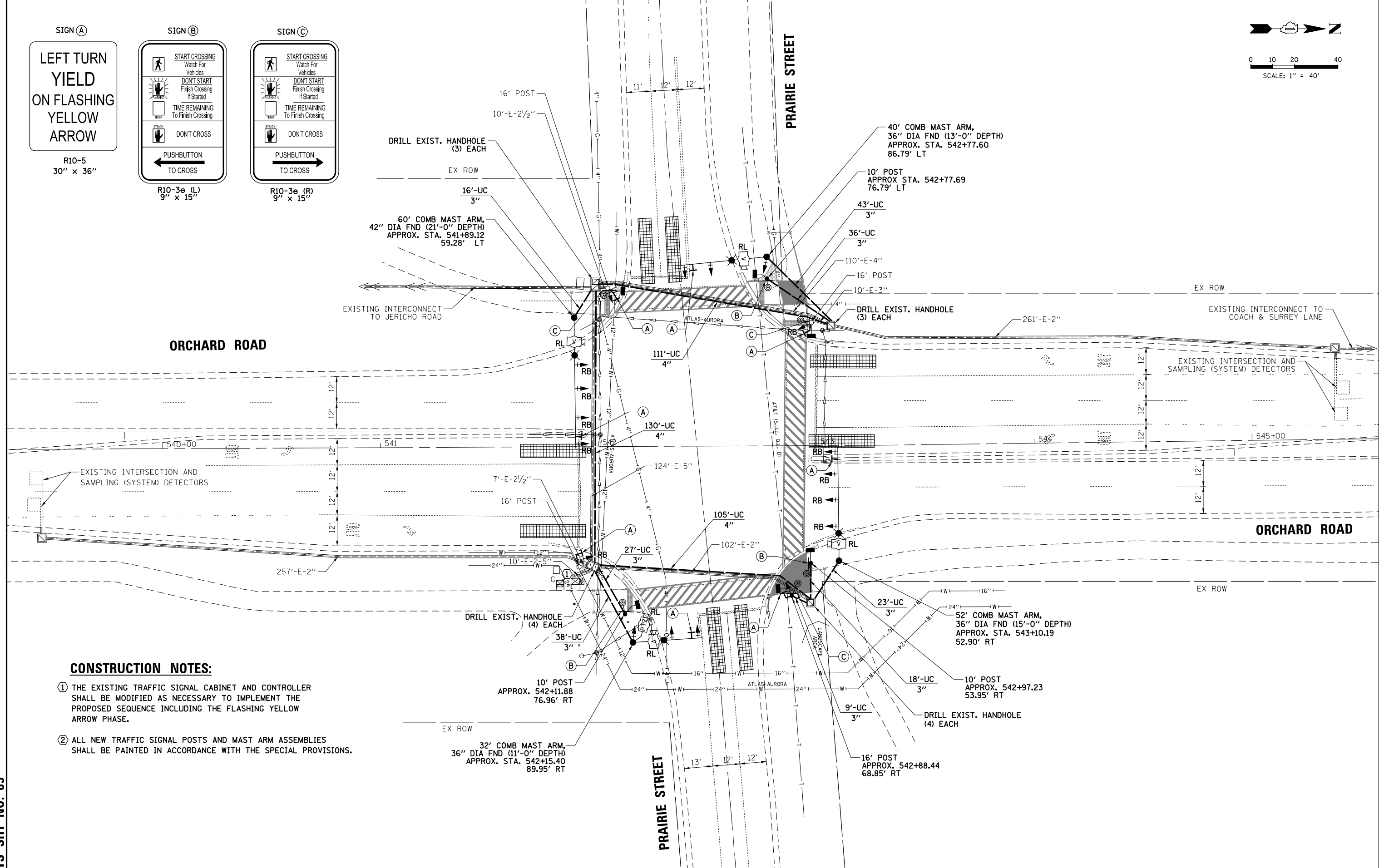
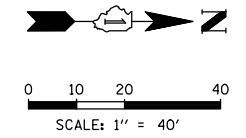
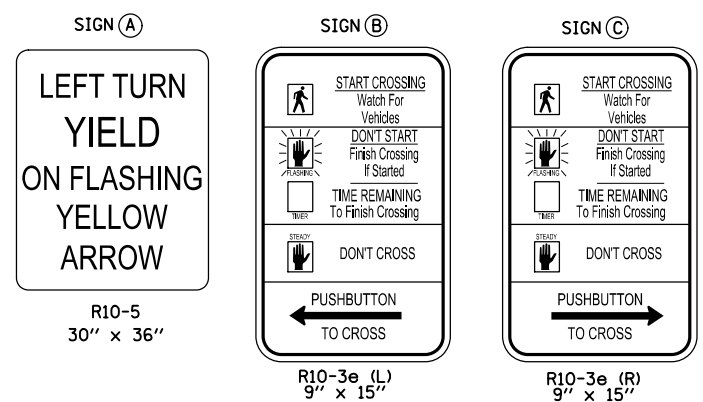
DATE: _____ BY: _____

DATE: _____ BY: _____

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5930

PROFILE SURVEYED: _____
 GRADES CHECKED: _____
 ELEM. NOTED: _____
 STRUCTURE NOTATIONS OKWD

TS SHT NO. 85



CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

FILE NAME	012.Orchard-Prairie 02.MDD
USER NAME	= fbariso
DESIGNED	- TFS
DRAWN	- FPB
CHECKED	- GMZ
DATE	- 12/8/2017
REVISIONS	
REVISED	-
REVISIONS	
REVISED	-
REVISIONS	
REVISED	-

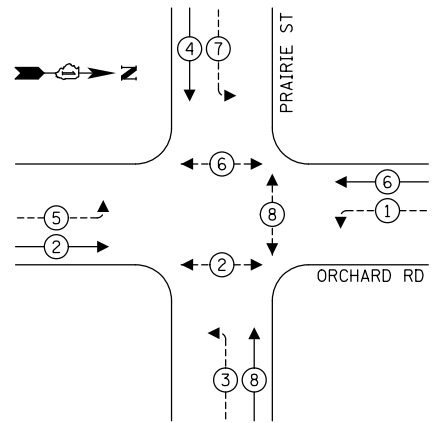
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN			
ORCHARD ROAD AND PRAIRIE STREET			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

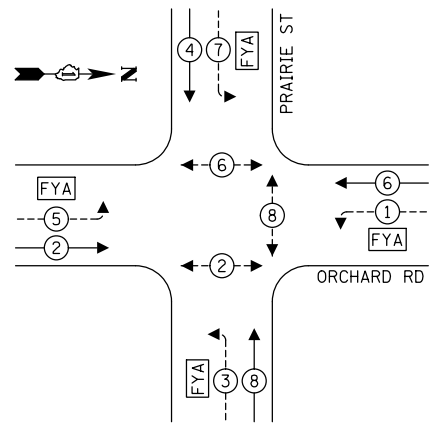
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	85
CONTRACT NO.				HSIP-0089(171)
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 GRADES CHECKED: _____ RT. OF WAY CHECKED: _____
 PLAN NO.: _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (630) 922-5500
 DATE: _____ BY: _____
 SURVEYED: _____
 GRADES CHECKED: _____
 PLAN NO.: _____
 STRUCTURE NOTATIONS: OK/KO

EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP
- [FYA] FLASHING YELLOW ARROW

LEGEND:

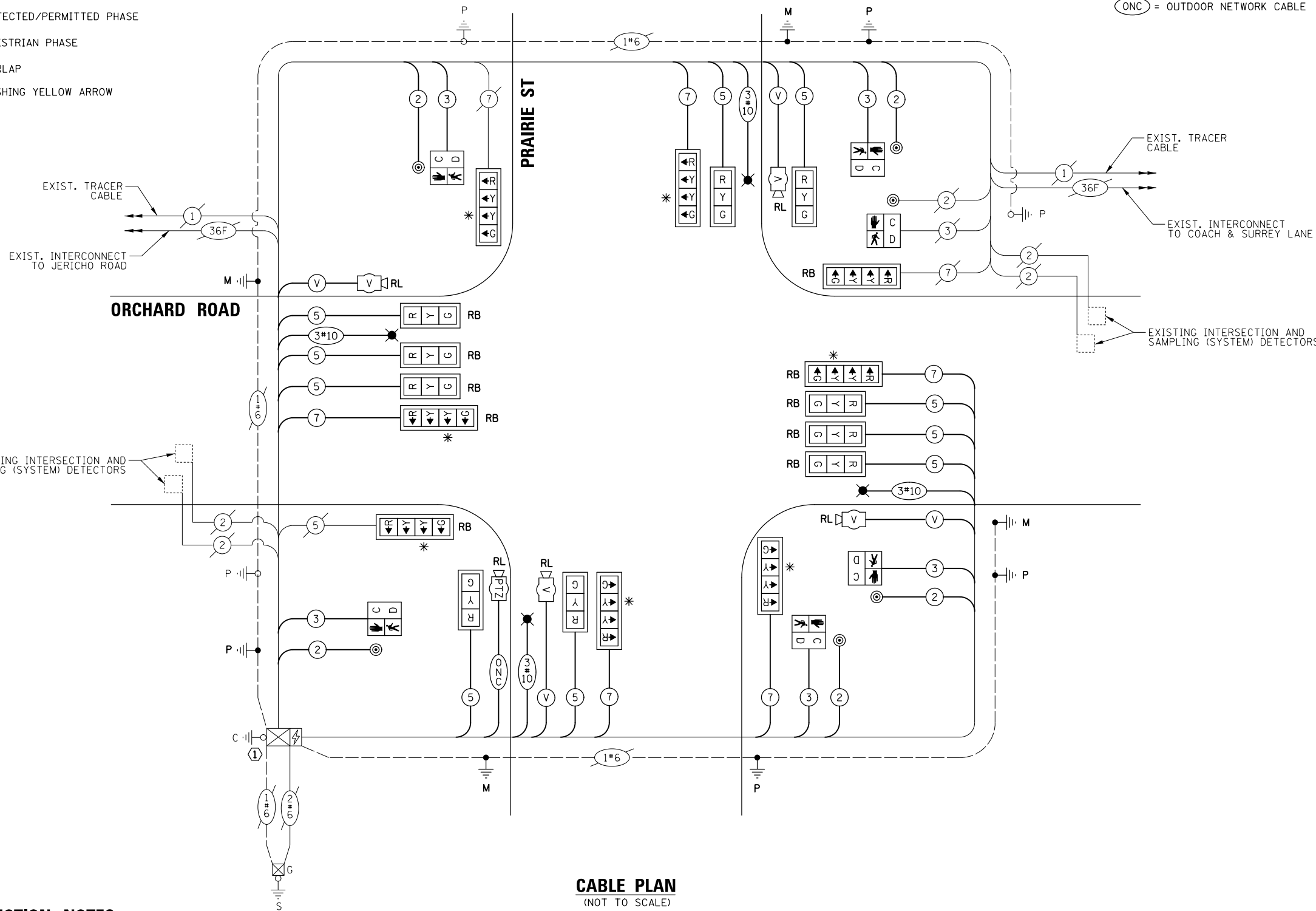
- * = INDICATES FLASHING YELLOW ARROW
- (ONC) = OUTDOOR NETWORK CABLE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1074.0

CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 86

ENERGY COSTS TO:
 CITY OF AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60505
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

FILE NAME 012_Orchard-Prairie 03.CAB	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
ORCHARD ROAD AND PRAIRIE STREET

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 86
CONTRACT NO.			HSIP-0089(171)	

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

REMOVAL AND RELOCATION NOTES:

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.

- 2 EACH STEEL MAST ARM ASSEMBLY AND POS
- 5 EACH TRAFFIC SIGNAL POST
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 7 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH LUMINAIRES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON
- 3 EACH VIDEO CAMERA

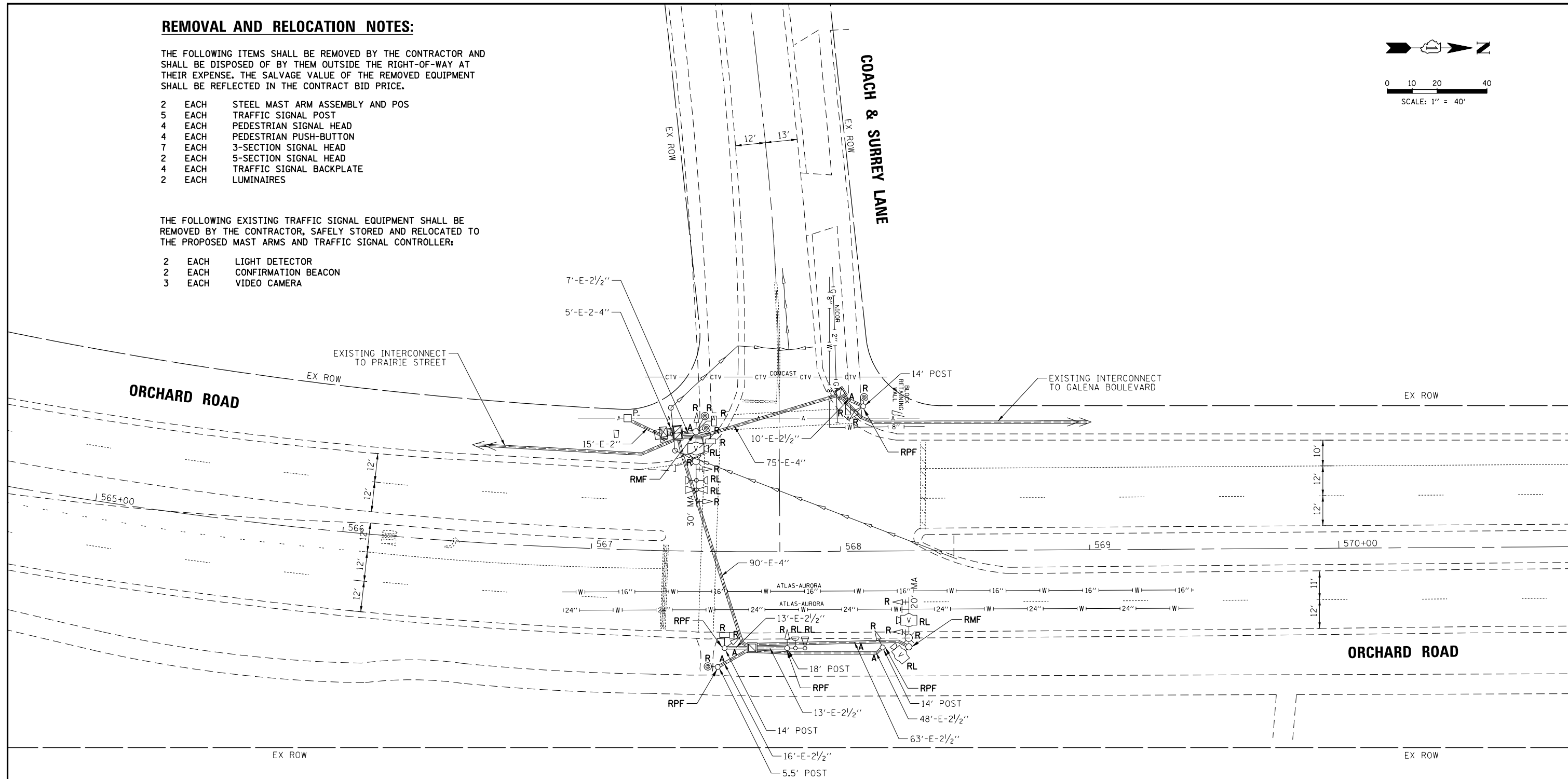


0 10 20 40
SCALE: 1" = 40'

DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	GRADES	CHECKED	STRUCTURE
DATE	BY	NOTES	CHECKED	NOTATIONS
DATE	BY	DATE	BY	DATE

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3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(647) 923-9500

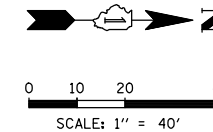
TS SHT NO. 88



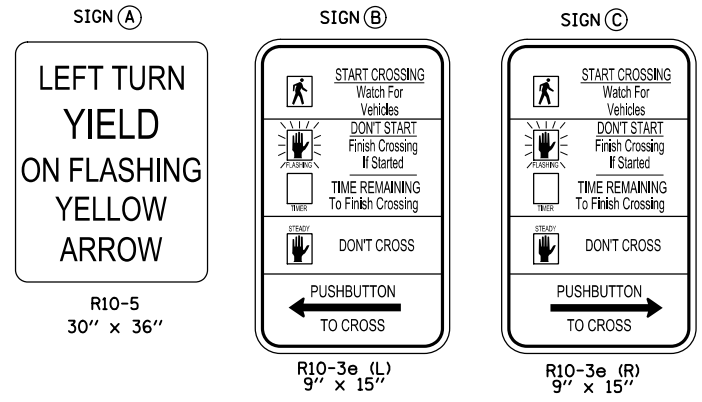
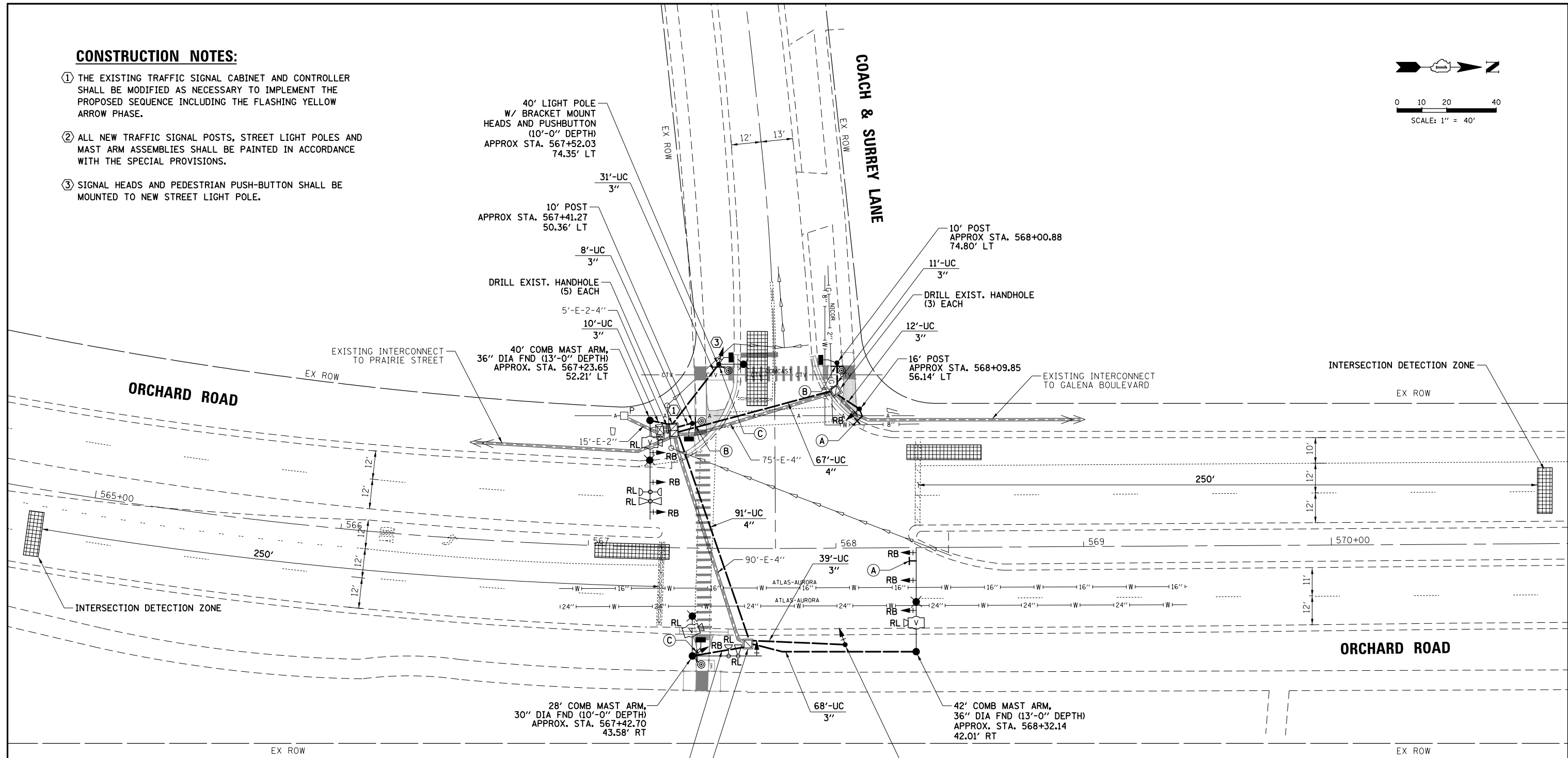
FILE NAME 013_Orchard-Coach-Surrey 01_REM	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL REMOVAL PLAN ORCHARD ROAD AND COACH & SURREY LANE				F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 88
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.			
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		FED. ROAD DIST. NO.								
									ILLINOIS FED. AID PROJECT HSIP-0089(171)				

CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS, STREET LIGHT POLES AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- ③ SIGNAL HEADS AND PEDESTRIAN PUSH-BUTTON SHALL BE MOUNTED TO NEW STREET LIGHT POLE.



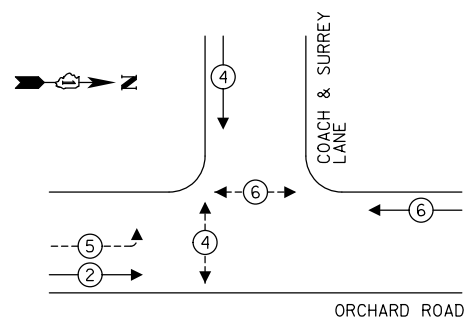
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5930
 SURVEYED _____
 ALIGNED _____
 RT. OF WAY CHECKED _____
 DATE _____
 BY _____
 PLAN NO. _____
 SURVEYED _____
 GRADES CHECKED _____
 ELEM. NOTED _____
 STRUCTURE NOTATIONS OKWD _____
 DATE _____
 BY _____
 PROFILE NO. _____
 NOTE BOOK NO. _____
 TS SHT NO. 89



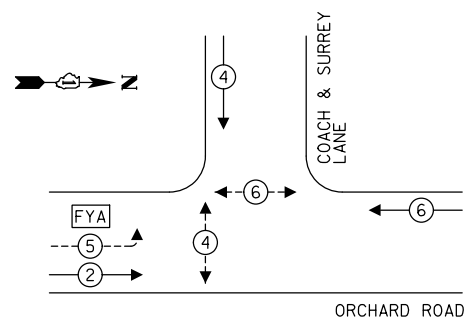
FILE NAME 013.Orchard-Coach-Surrey 02.MXD	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN ORCHARD ROAD AND COACH & SURREY LANE				F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. FAP 363 12-00424-00-SP KANE 172 89 FAP 336
	PLOT SCALE = 48'	DRAWN - FPB	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)
	PLOT DATE = 12/8/2017	CHECKED - GMZ	REVISED -						CONTRACT NO.
		DATE - 12/8/2017	REVISED -						

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 GRADES CHECKED: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK NO. _____ CAD FILE NAME: _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-9500
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PLAN NO. _____ STRUCTURE NOTATIONS: OK/NO

EXISTING CONTROLLER SEQUENCE



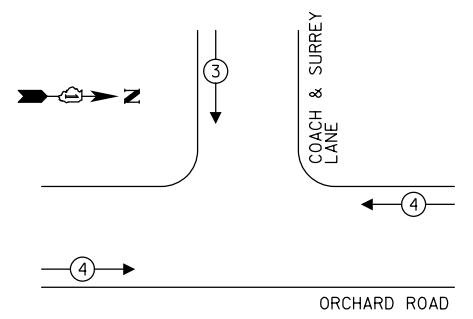
PROPOSED CONTROLLER SEQUENCE



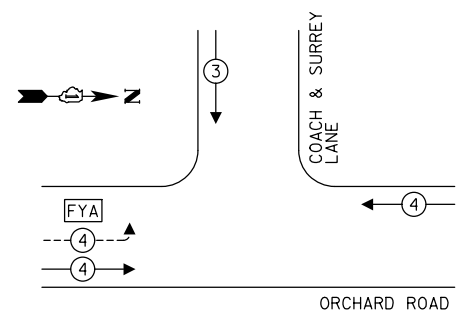
LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ - - → PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL → OVERLAP
- [FYA] FLASHING YELLOW ARROW

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

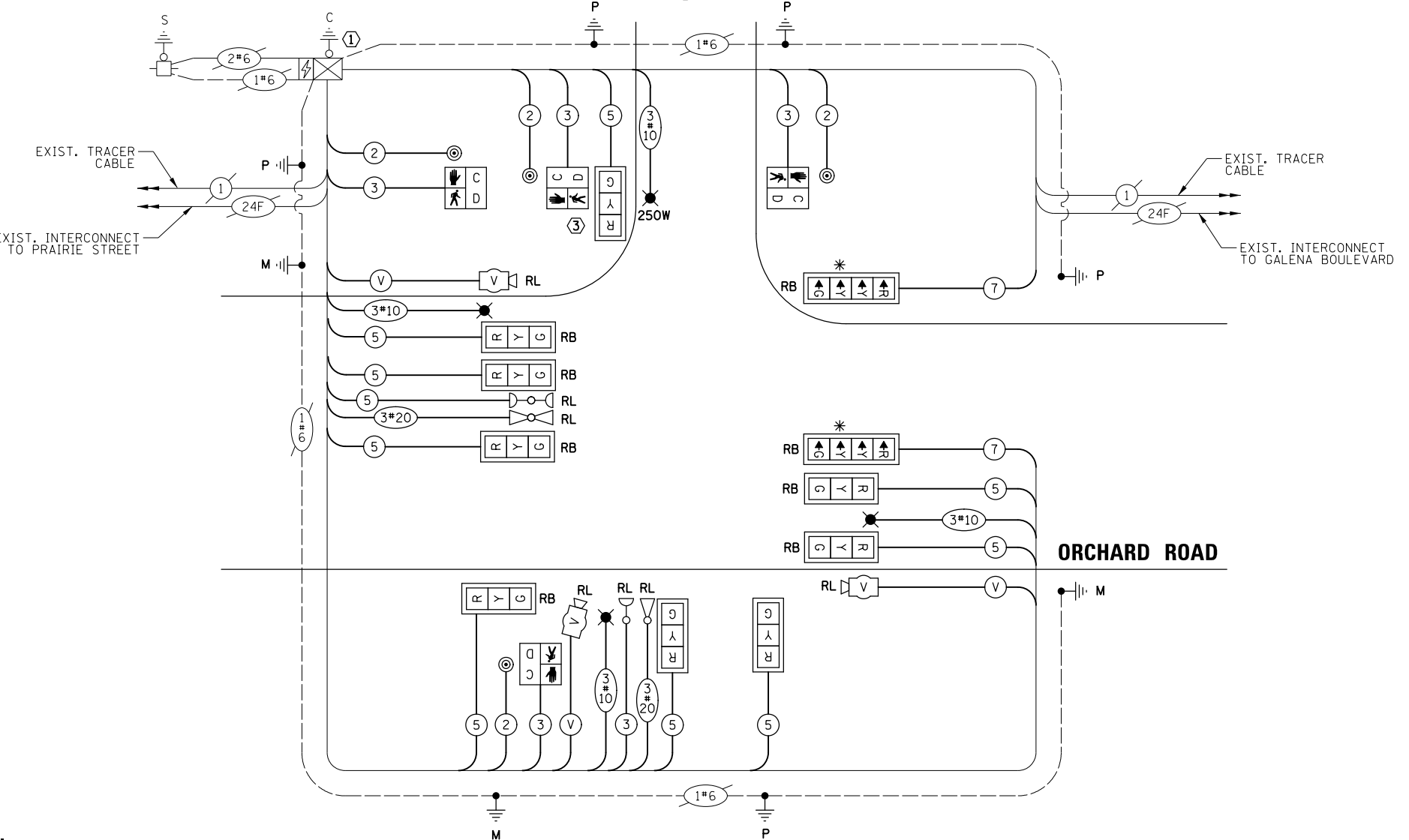
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
SOLID ARROW (RED)	2	10	50	10.0
(GREEN & YELLOW)	4	10	10	4.0
FLASHING ARROW	2	10	5	1.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	250	50	375.0
TOTAL =				852.1

ENERGY COSTS TO:
 KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, IL 60175
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

CONSTRUCTION NOTES:

- 1 THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- 2 ALL NEW TRAFFIC SIGNAL POSTS, STREET LIGHT POLES AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- 3 SIGNAL HEADS AND PEDESTRIAN PUSH-BUTTON SHALL BE MOUNTED TO NEW STREET LIGHT POLE.

TS SHT NO. 90



LEGEND:

* = INDICATES FLASHING YELLOW ARROW

CABLE PLAN
(NOT TO SCALE)

FILE NAME: 013_Orchard-Coach-Surrey_03.CAB	USER NAME: fbariso	DESIGNED: TFS	REVISED: -
		DRAWN: FPB	REVISED: -
		CHECKED: GMZ	REVISED: -
		DATE: 12/8/2017	REVISED: -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 ORCHARD ROAD AND COACH & SURREY LANE**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 90
CONTRACT NO.			HSIP-0089(171)	

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

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	1.0
SIGN PANEL - TYPE 1	SQ FT	15
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	202
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	158
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,971
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	1
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	3
LIGHT POLE, ALUMINUM, 40 FT. M.H., 15 FT. MAST ARM	EACH	1
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	6
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	5
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	378
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,003
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,294
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	378
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	411
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	5
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	4
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,814
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	376
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	77.1

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	
	BLM. NOTED	
	STRUCTURE NOTATIONS CHKO	
PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	
	ADD. FILE NAME	

CHRISTOPHER B. BURKE
ENGINEERING LTD.
3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(647) 923-5000

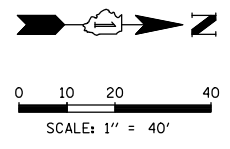
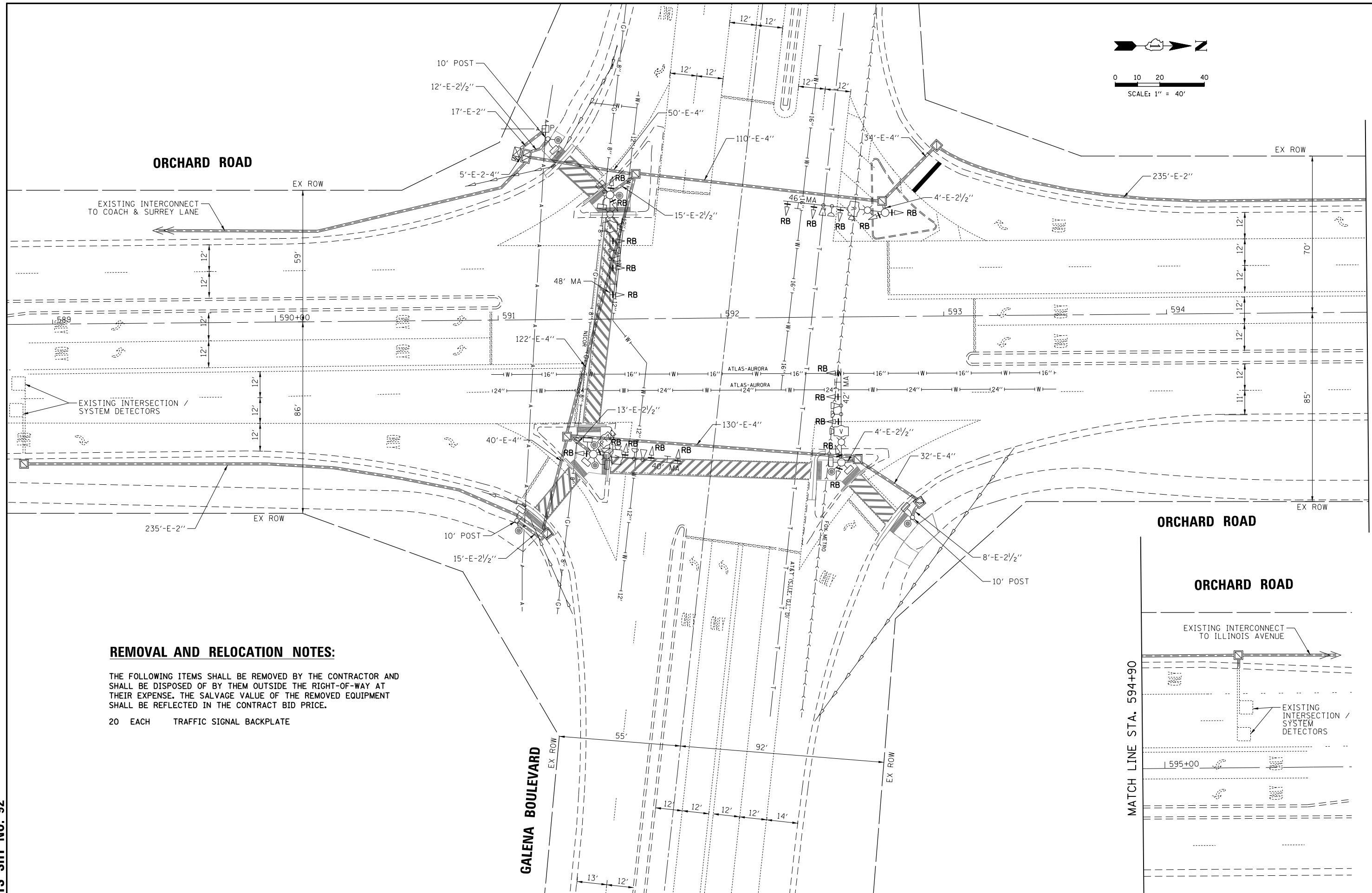


TS SHT NO. 91

FILE NAME 013_Orchard-Coach-Surrey 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ORCHARD ROAD AND COACH & SURREY LANE	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 91		
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	CONTRACT NO.		
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -			FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

PROFILE SURVEYED _____ DATE _____
 NOTE BOOK _____
 NO. _____
 STRUCTURE NOTATIONS OKWD
 PLAN SURVEYED _____ DATE _____
 NOTE BOOK _____
 NO. _____
 ALIGNMENT CHECKED _____
 RT. OF WAY CHECKED _____
 CAD FILE NAME _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 823-5938

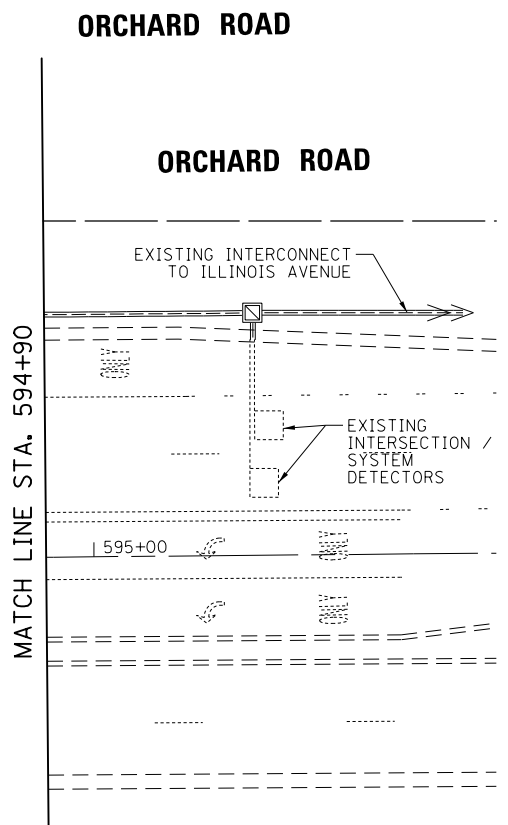
TS SHT NO. 92



REMOVAL AND RELOCATION NOTES:

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.

- 20 EACH TRAFFIC SIGNAL BACKPLATE



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
014_Orchard-Galena 01.MOD Rev		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

PLT SCALE = 48'	
PLT DATE = 12/8/2017	

DESIGNED - TFS	REVISED -
DRAWN - FPB	REVISED -
CHECKED - GMZ	REVISED -
DATE - 12/8/2017	REVISED -

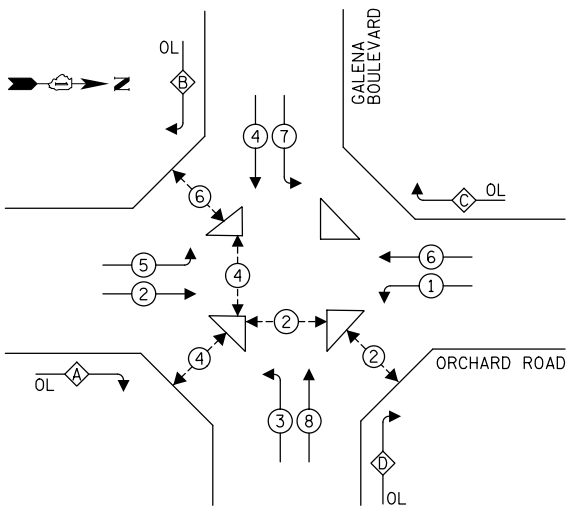
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN			
ORCHARD ROAD AND GALENA BOULEVARD			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

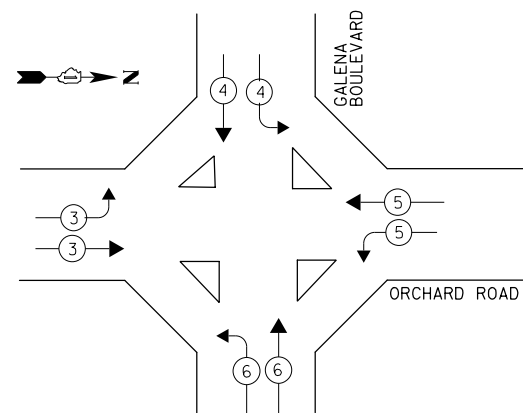
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363	12-00424-00-SP	KANE	172	92
FAP 336				
CONTRACT NO.			HSIP-0089(171)	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SURVEYED _____
 ALIGNED _____
 RT. OF WAY CHECKED _____
 DATE FILE NAME _____
 BY _____
 PLAN _____
 NOTE BOOK _____
 NO. _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 823-5500
 DATE _____
 BY _____
 SURVEYED _____
 GRADES CHECKED _____
 ELEM. NOTED _____
 STRUCTURE NOTATIONS OK/NO _____
 NOTE BOOK _____
 NO. _____

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ - - ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION

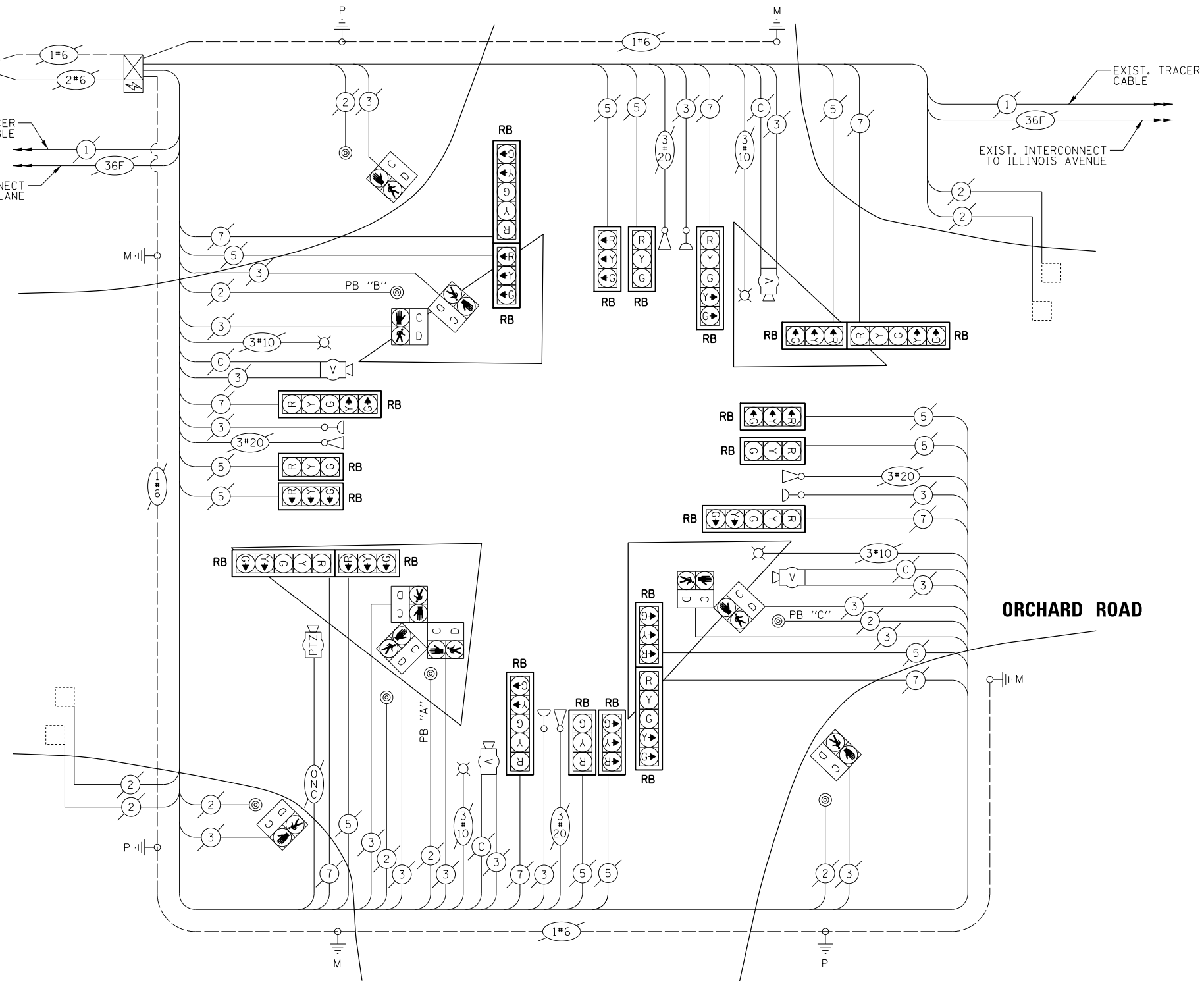
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2 +	3
B =	4 +	5
C =	6 +	7
D =	8 +	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	11	12	45	59.4
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	23	10	10	23.0
FLASHING ARROW	-	10	5	-
PED. SIGNAL	10	20	100	200.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1168.9

ENERGY COSTS TO:
 CITY OF AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60505
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASE 2



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 93

FILE NAME 014_Orchard-Galeta 02_CAB Rev	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ORCHARD ROAD AND GALETA BOULEVARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 93
CONTRACT NO.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	20
PEDESTRIAN PUSH-BUTTON	EACH	9
TEMPORARY INFORMATION SIGNING	SQ FT	-

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PROFILE SURVEYED _____ GRADES CHECKED _____ E.M. NOTED _____ STRUCTURE NOTATIONS CHK'D _____ NO. _____	BY _____ DATE _____				
PLAN NOTE BOOK NO. _____	SURVEYED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ PLOT FILE NAME _____				


CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5500

TS SHT NO. 94

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND GALENA BOULEVARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
014_Orchard-Galena 03.CAB-2		DRAWN - FPB	REVISED -			FAP 363	12-00424-00-SP	KANE	172	94	
		CHECKED - GMZ	REVISED -			CONTRACT NO.					
		DATE - 12/8/2017	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO
						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)			

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO. 95

FILE NAME
015_Orchard-IL Ave 01.REM

USER NAME = fbariso
DESIGNED - TFS
DRAWN - FPB
CHECKED - GMZ
DATE - 12/8/2017

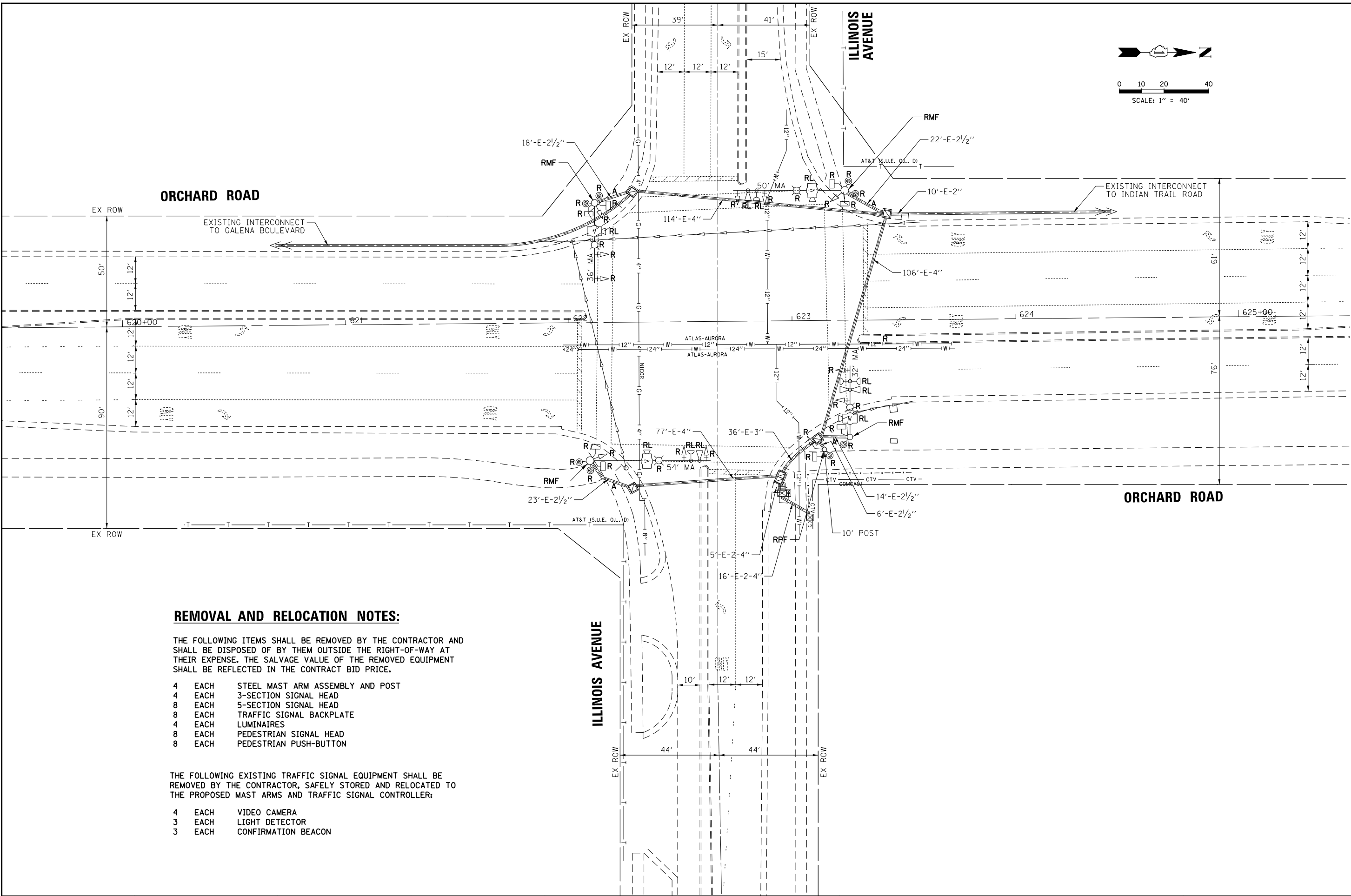
REVISIONS
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
ORCHARD ROAD AND ILLINOIS AVENUE

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	95
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		



REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH LUMINAIRES
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 4 EACH VIDEO CAMERA
- 3 EACH LIGHT DETECTOR
- 3 EACH CONFIRMATION BEACON

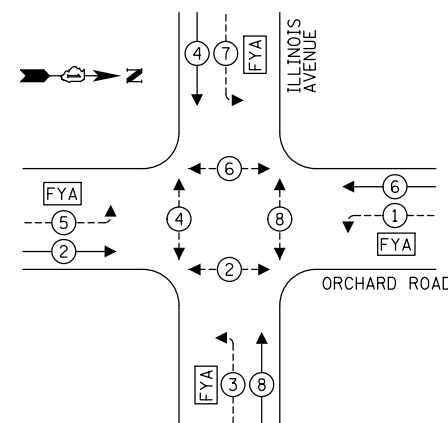
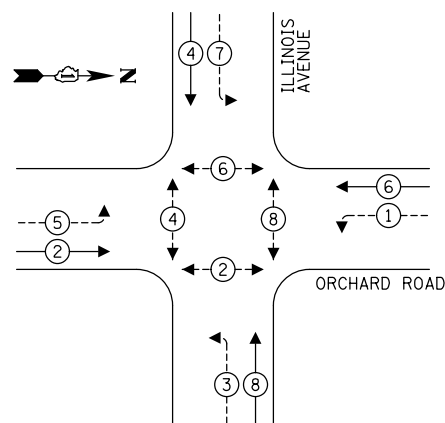
BY: DATE: SURVEYED: ALIGNED: CHECKED: RT. OF WAY CHECKED: CAD FILE NAME: PLAN: NOTE BOOK NO.: NO. OF WAY CHECKED: NO. SURVEYED: GRADES CHECKED: STRUCTURE NOTATIONS OK/NO

CHRISTOPHER B. BURKE ENGINEERING LTD. 8575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (630) 923-5500

TS SHT NO. 97

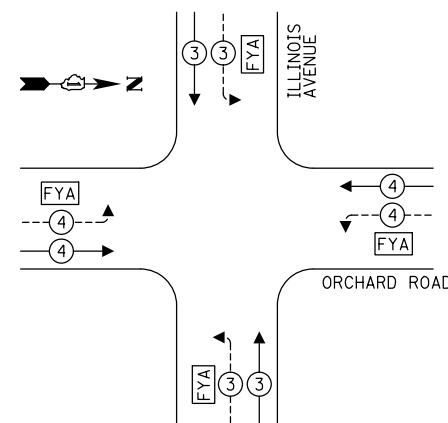
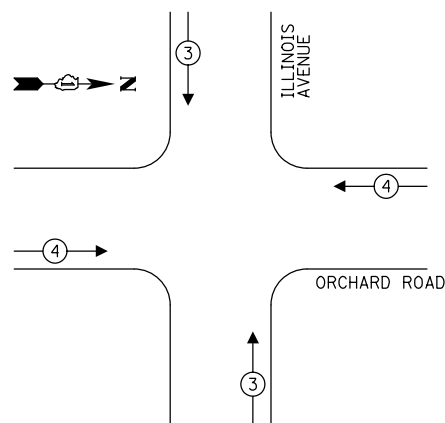
EXISTING CONTROLLER SEQUENCE

PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP
- FYA — FLASHING YELLOW ARROW

LEGEND:

- * = INDICATES FLASHING YELLOW ARROW

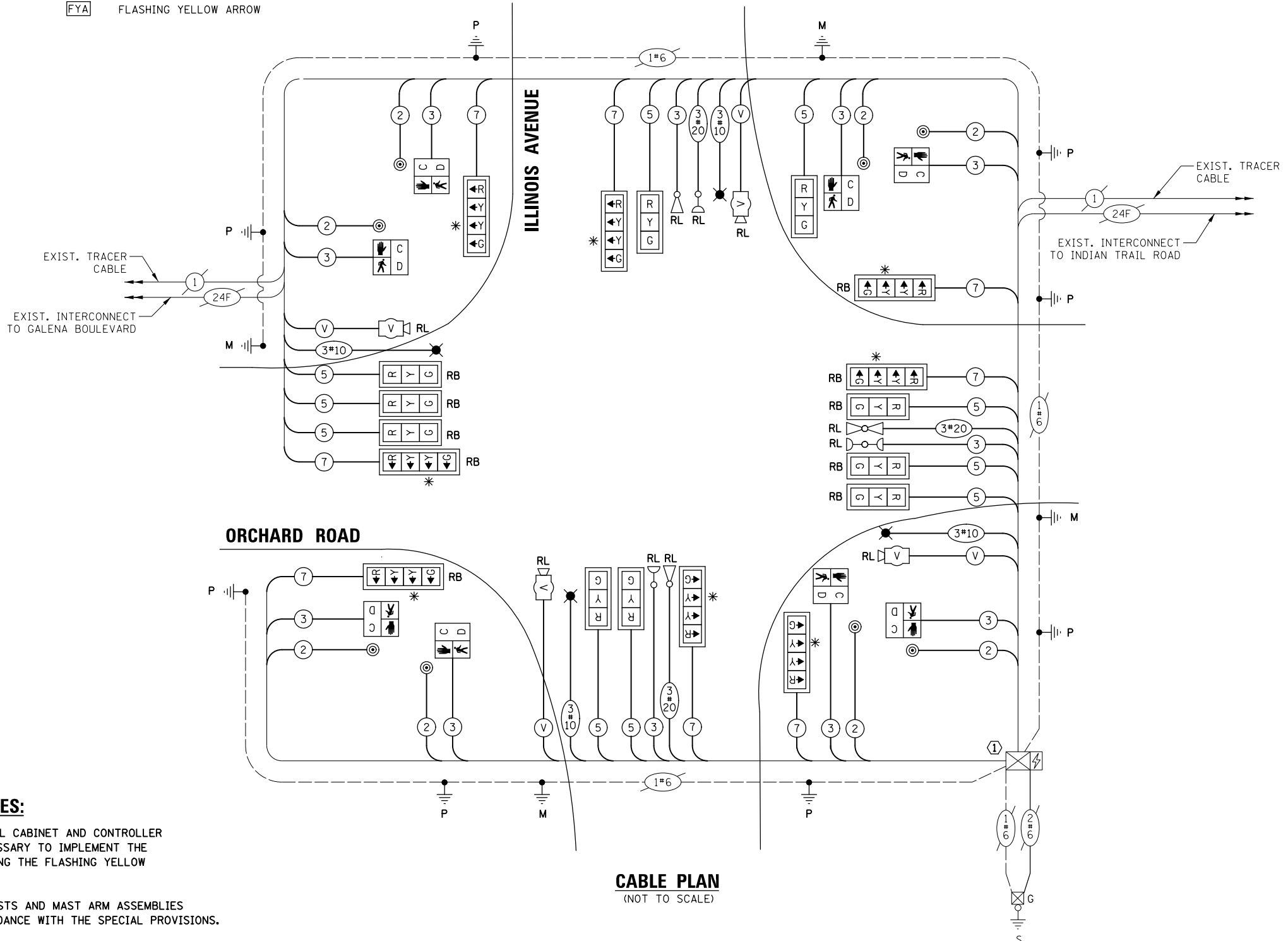
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1114.0

ENERGY COSTS TO:
 CITY OF AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60505
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

CONSTRUCTION NOTES:

- 1 THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- 2 ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



CABLE PLAN
(NOT TO SCALE)

FILE NAME: 015_Orchard-IL Ave 03.CAB	USER NAME: fbariso	DESIGNED: TFS	REVISED: -
		DRAWN: FPB	REVISED: -
		CHECKED: GMZ	REVISED: -
		DATE: 12/8/2017	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ORCHARD ROAD AND ILLINOIS AVENUE

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 97
CONTRACT NO.			HSIP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	213
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	292
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,773
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	8
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,521
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,040
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,365
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,836
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	747
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
DRILL EXISTING HANDHOLE	EACH	19
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	10
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9,764
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	463
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

PROFILE SURVEYED _____ GRADES CHECKED _____ E.M. NOTED _____ STRUCTURE NOTATIONS CHECKED _____ NO. _____	PLAN SURVEYED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ ADD. FILE NAME _____ NO. _____	BY _____ _____ _____ _____ _____	DATE _____ _____ _____ _____ _____
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CHRISTOPHER B. BURKE
 ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 923-5930

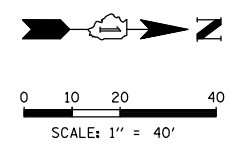
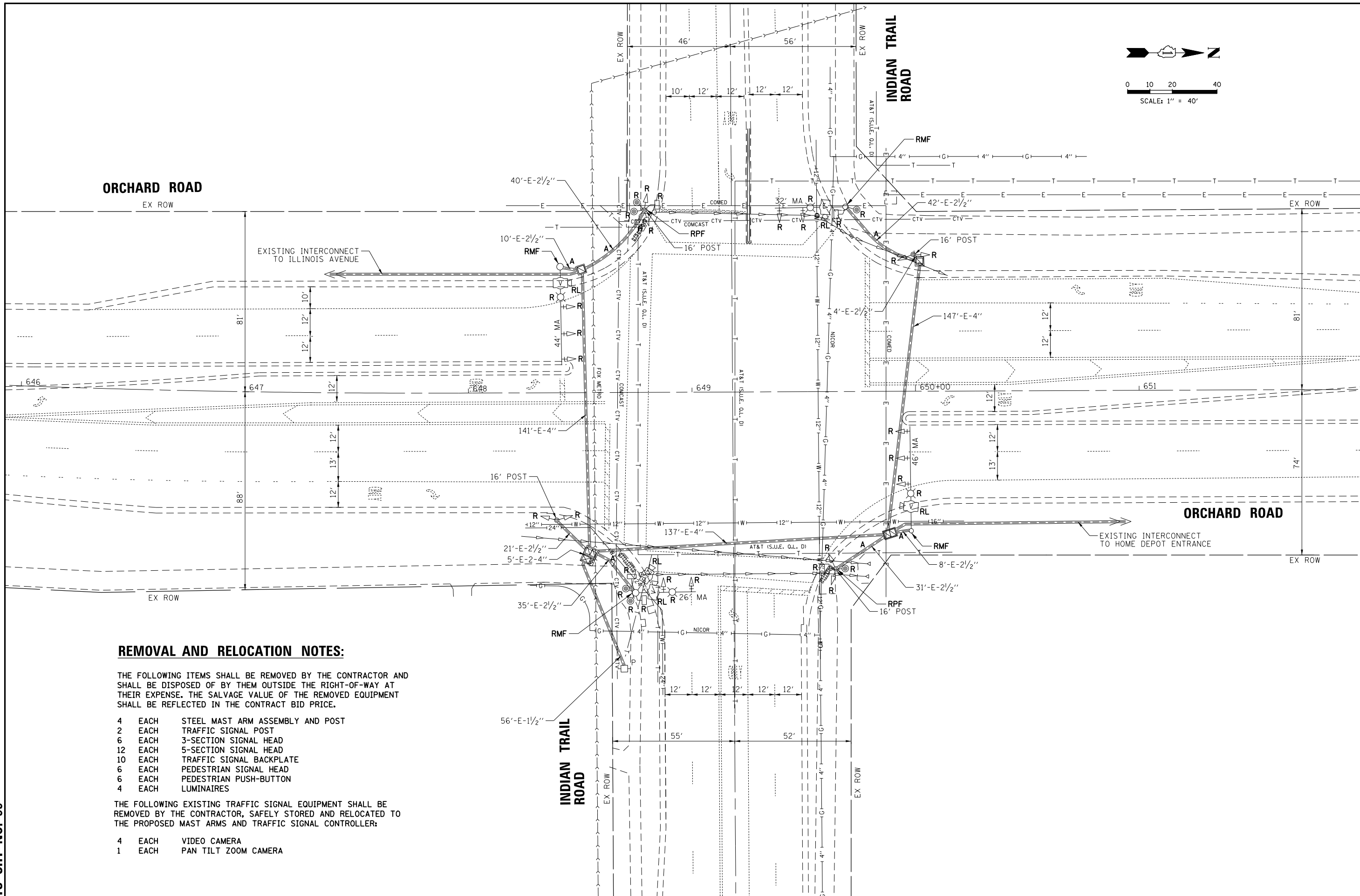


TS SHT NO. 98

FILE NAME 015_Orchard-IL Ave 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND ILLINOIS AVENUE	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 98
	PLLOT SCALE = 48'	CHECKED - GMZ	REVISED -					CONTRACT NO.		
	PLLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)

DATE	BY	DATE	BY
PROFILE	SURVEYED	GRADES CHECKED	BLM. NOTED
NOTE BOOK NO.	NO.	STRUCTURE NOTATIONS	CHK'D
PLAN	SURVEYED	ALIGNED	CHECKED
NOTE BOOK NO.	NO.	RT. OF WAY CHECKED	NO.
ENGINEERING LTD.	ENGINEERING LTD.		
CHRISTOPHER B. BURKE	3575 West Higgins Road, Suite 600		
	Rosemont, Illinois 60018		
	(617) 923-5930		

TS SHT NO. 99



REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 2 EACH TRAFFIC SIGNAL POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 12 EACH 5-SECTION SIGNAL HEAD
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 6 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH LUMINAIRES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 4 EACH VIDEO CAMERA
- 1 EACH PAN TILT ZOOM CAMERA

FILE NAME	USER NAME = fbariso
016_Orchard-Indian Trail 01.REM	
PLOT SCALE = 48'	CHECKED = GMZ
PLOT DATE = 12/8/2017	DATE = 12/8/2017

DESIGNED - TFS	REVISED -
DRAWN - FPB	REVISED -
CHECKED - GMZ	REVISED -
DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

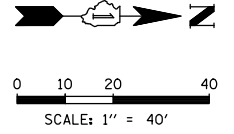
TRAFFIC SIGNAL REMOVAL PLAN
ORCHARD ROAD AND INDIAN TRAIL ROAD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	99
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(17)		

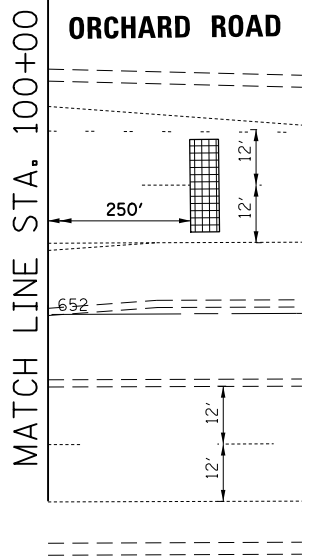
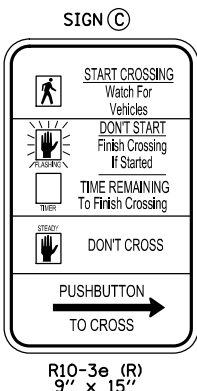
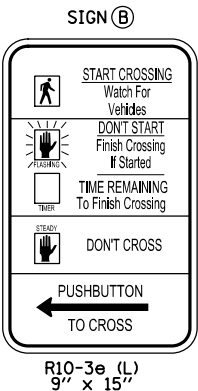
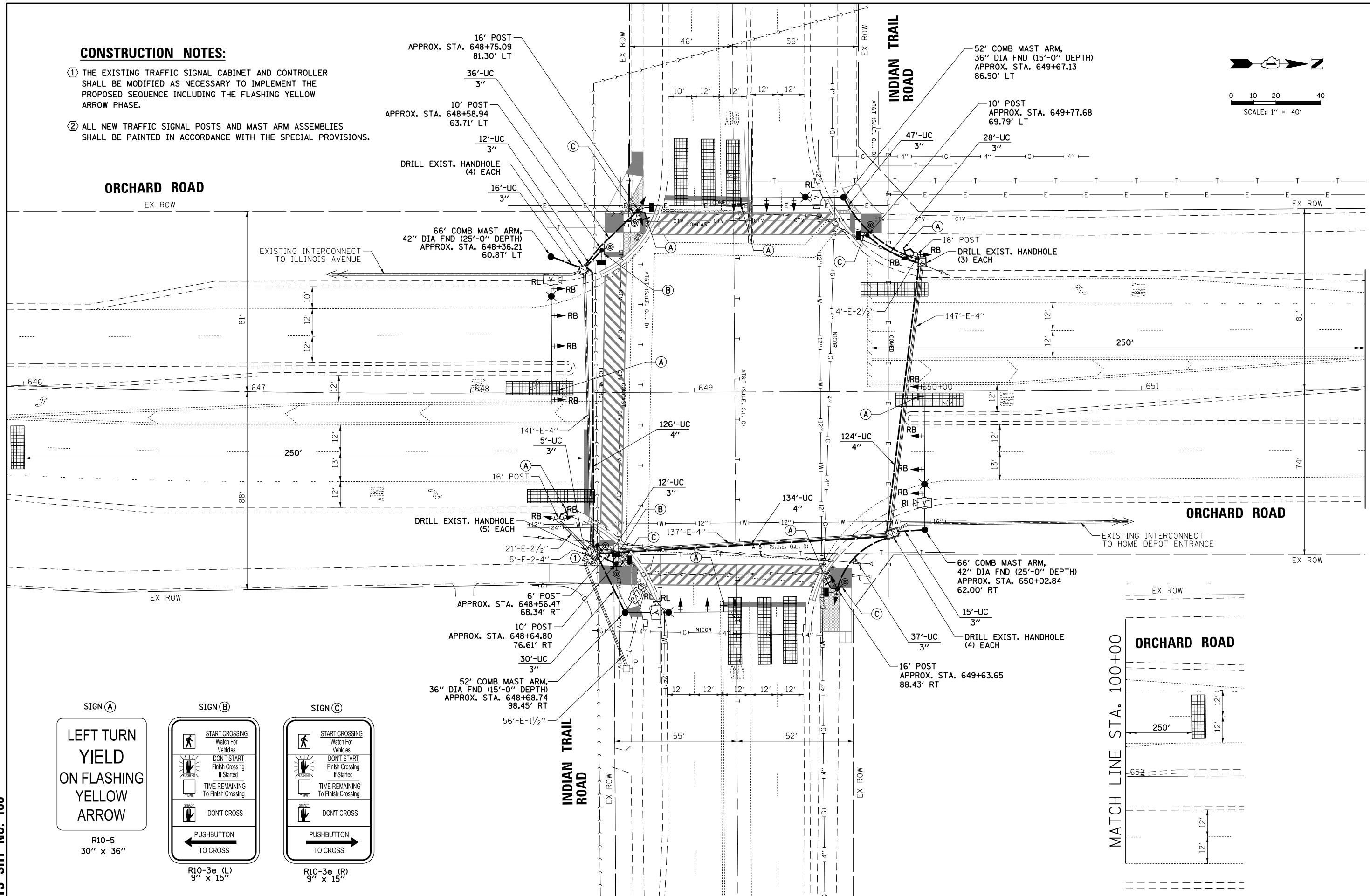
CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED
		RT. OF WAY	FILE NAME				RT. OF WAY	FILE NAME	
PLAN	NOTE BOOK NO.	NO.			PROFILE	NOTE BOOK NO.	NO.		
ENGINEERING LTD. 9575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (630) 823-5500 									
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED
		STRUCTURE	NOTATIONS	CHKD			STRUCTURE	NOTATIONS	CHKD

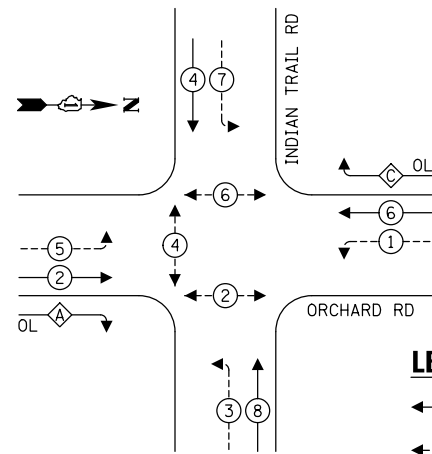
TS SHT NO. 100



FILE NAME 016_Orchard-Indian Trail 02.MOD	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN ORCHARD ROAD AND INDIAN TRAIL ROAD				F.A.P. RTE. 363	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 48'		DRAWN - FPB	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	12-00424-00-SP	KANE	172	100
PLOT DATE = 12/8/2017		CHECKED - GMZ	REVISED -		CONTRACT NO.								
		DATE - 12/8/2017	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSJP-0089(171)								

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 PLAN: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK NO.: _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 823-5500
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PLAN: _____ STRUCTURE NOTATIONS OKWD
 NOTE BOOK NO.: _____

EXISTING CONTROLLER SEQUENCE



RIGHT TURN OVERLAP

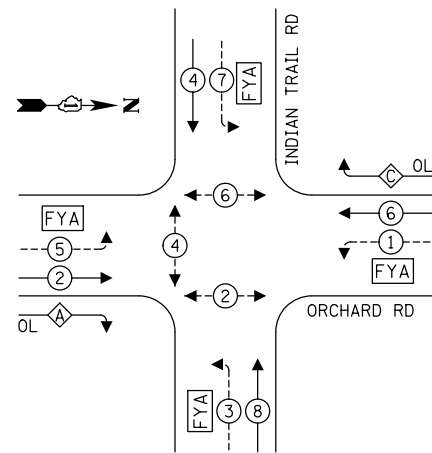
PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7

LEGEND:

- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP
- [FYA] FLASHING YELLOW ARROW

PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	24	10	10	24.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1129.6

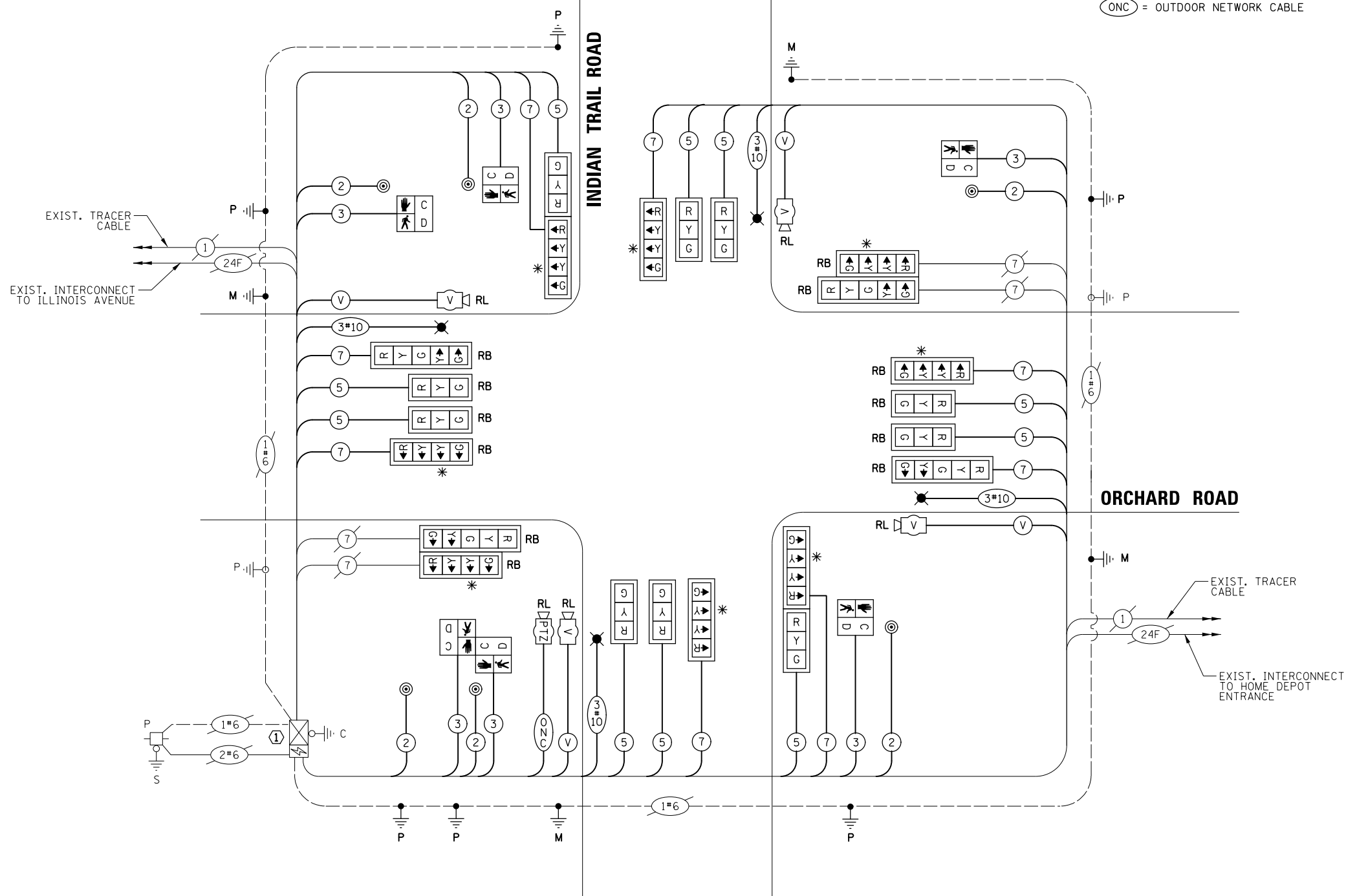
ENERGY COSTS TO:

CITY OF AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60505

ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



CABLE PLAN
(NOT TO SCALE)

LEGEND:

- * = INDICATES FLASHING YELLOW ARROW
- (ONC) = OUTDOOR NETWORK CABLE

TS SHT NO. 101

FILE NAME: 016_Orchard-Indian Trail 03.CAB

USER NAME = fbariso
 DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE - 12/8/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 ORCHARD ROAD AND INDIAN TRAIL ROAD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 101
CONTRACT NO.			HSJP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	1.0
SIGN PANEL - TYPE 1	SQ FT	60
MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	551
MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	1,340
MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	114
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	233
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	384
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,985
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	5
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	809
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	851
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,857
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,069
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	619
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50
DRILL EXISTING HANDHOLE	EACH	15
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE	EACH	14
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	6
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,205
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
No.	BLM. NOTED	
	STRUCTURE NOTATIONS	
	CHKD	
PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
No.	RT. OF WAY CHECKED	
	ADD. FILE NAME	

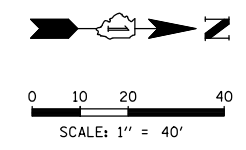
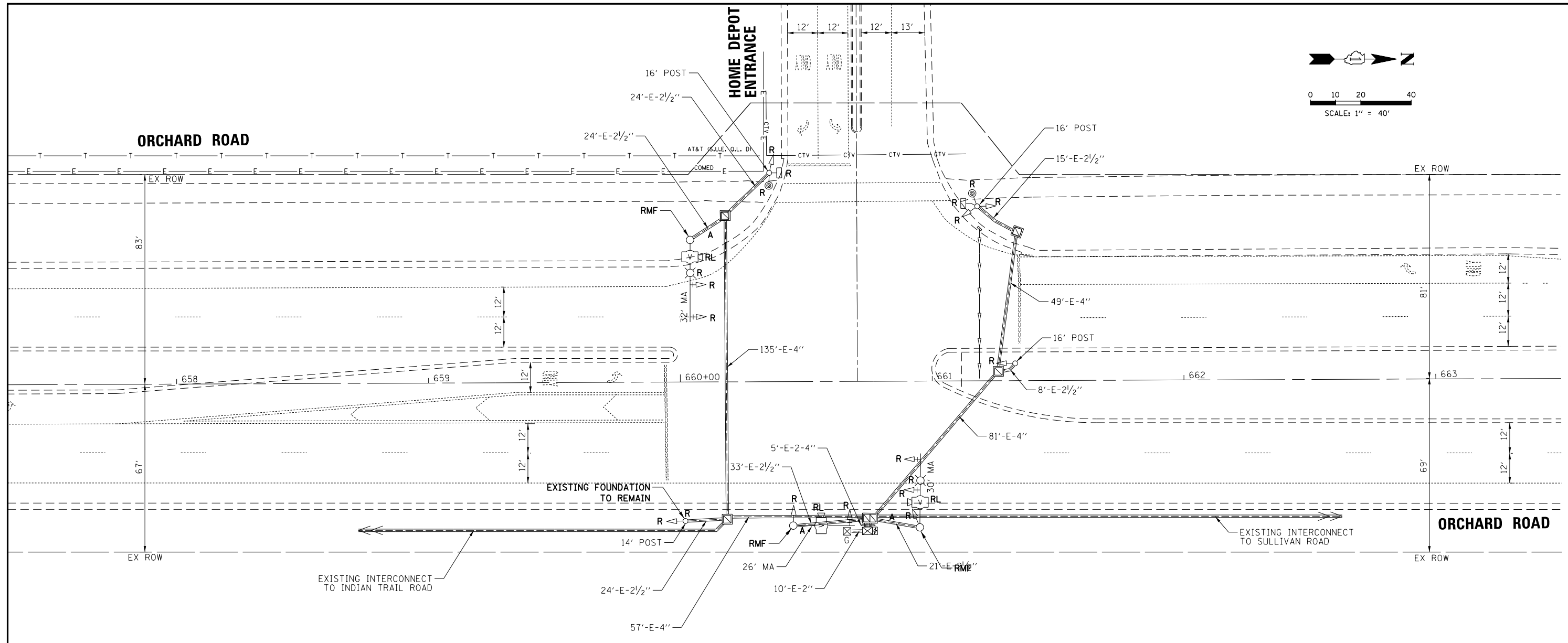

CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 923-5500

TS SHT NO. 102

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND INDIAN TRAIL ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016_Orchard-Indian Trail 03.CAB-2		DRAWN - FPB	REVISED -		FAP 363	12-00424-00-SP	KANE	172	102			
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -		CONTRACT NO.							
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
		PLAN	NOTE BOOK	NO.	
CHRISTOPHER B. BURKE ENGINEERING LTD. 3575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (647) 923-5500					
DATE	BY	SURVEYED	GRADES CHECKED	STRUCTURE NOTATIONS	CHKD
		PROFILE	NOTE BOOK	NO.	

TS SHT NO. 103



REMOVAL AND RELOCATION NOTES:

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.

- 3 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 5 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PUSH-BUTTON
- 2 EACH LUMINAIRE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 3 EACH VIDEO CAMERA

FILE NAME 017_Orchard-HomeDepot 01.REM	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL REMOVAL PLAN ORCHARD ROAD AND HOME DEPOT ENTRANCE	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 103	
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO.		
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		HSIP-0089(171)	

DATE
BY
SURVEYED
ALIGNED
CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

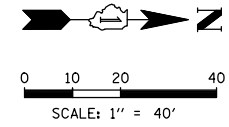
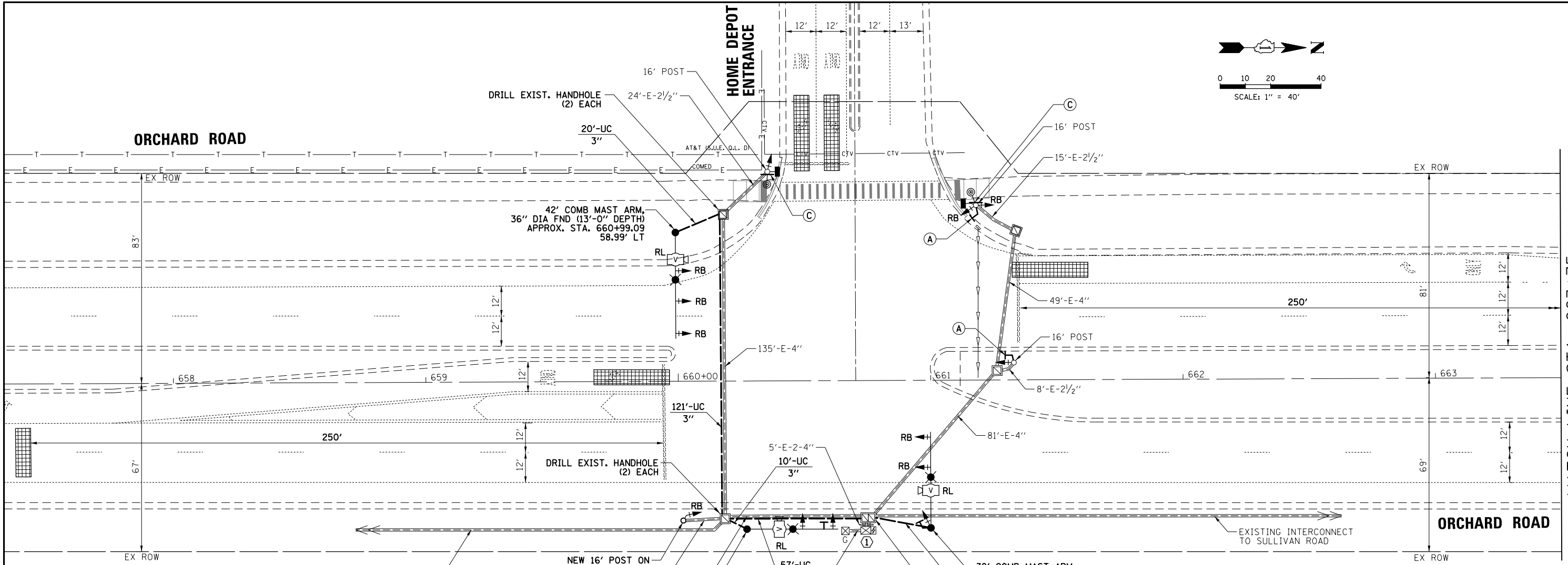
PLAN
NOTE BOOK
NO.

CHRISTOPHER B. BURKE ENGINEERING LTD.
8575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(617) 822-5008

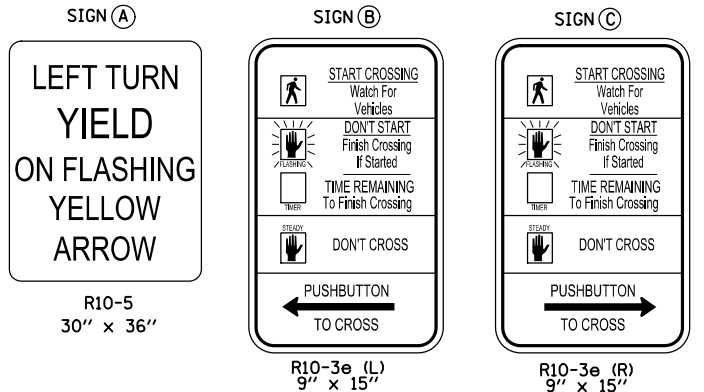
DATE
BY
SURVEYED
GRADES CHECKED
BLM. NOTED
STRUCTURE NOTATIONS OK'D

PROFILE
NOTE BOOK
NO.

TS SHT NO. 104

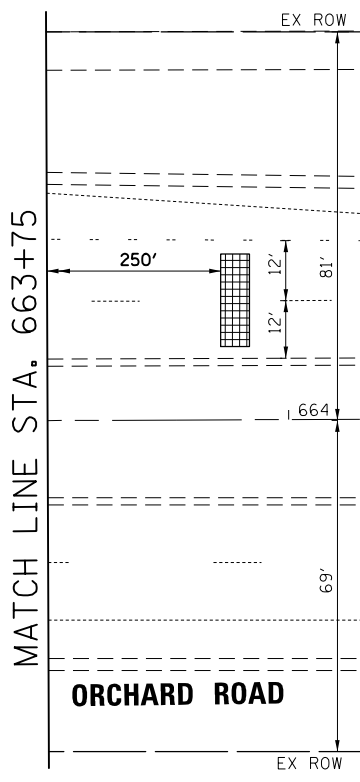


MATCH LINE STA. 663+75



CONSTRUCTION NOTES:

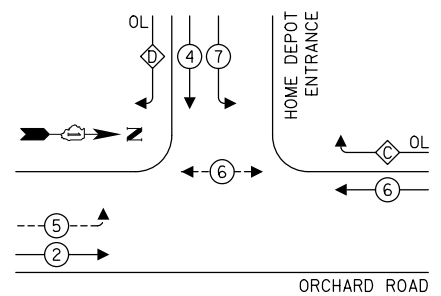
- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



FILE NAME 017_Orchard-HomeDepot 02.MOD	USER NAME fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN ORCHARD ROAD AND HOME DEPOT ENTRANCE		F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 104
PLOT SCALE = 48'	CHECKED - GMZ	REVISED -	REVISED -				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -	REVISED -								

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 PLAN: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK NO.: _____ CAD FILE NAME: _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5930
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PROFILE: _____ BLK. NOTED: _____
 NOTE BOOK NO.: _____ STRUCTURE NOTATIONS: CWK0

EXISTING CONTROLLER SEQUENCE



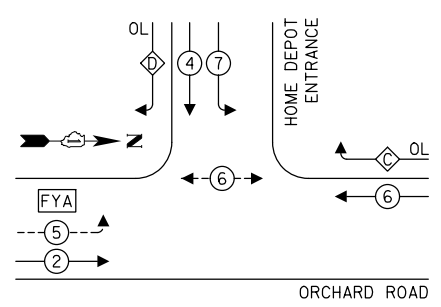
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 7
D	= 4	+ 5

LEGEND:

- ← * → PROTECTED PHASE
- ← * - - * → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP
- [FYA] FLASHING YELLOW ARROW

PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

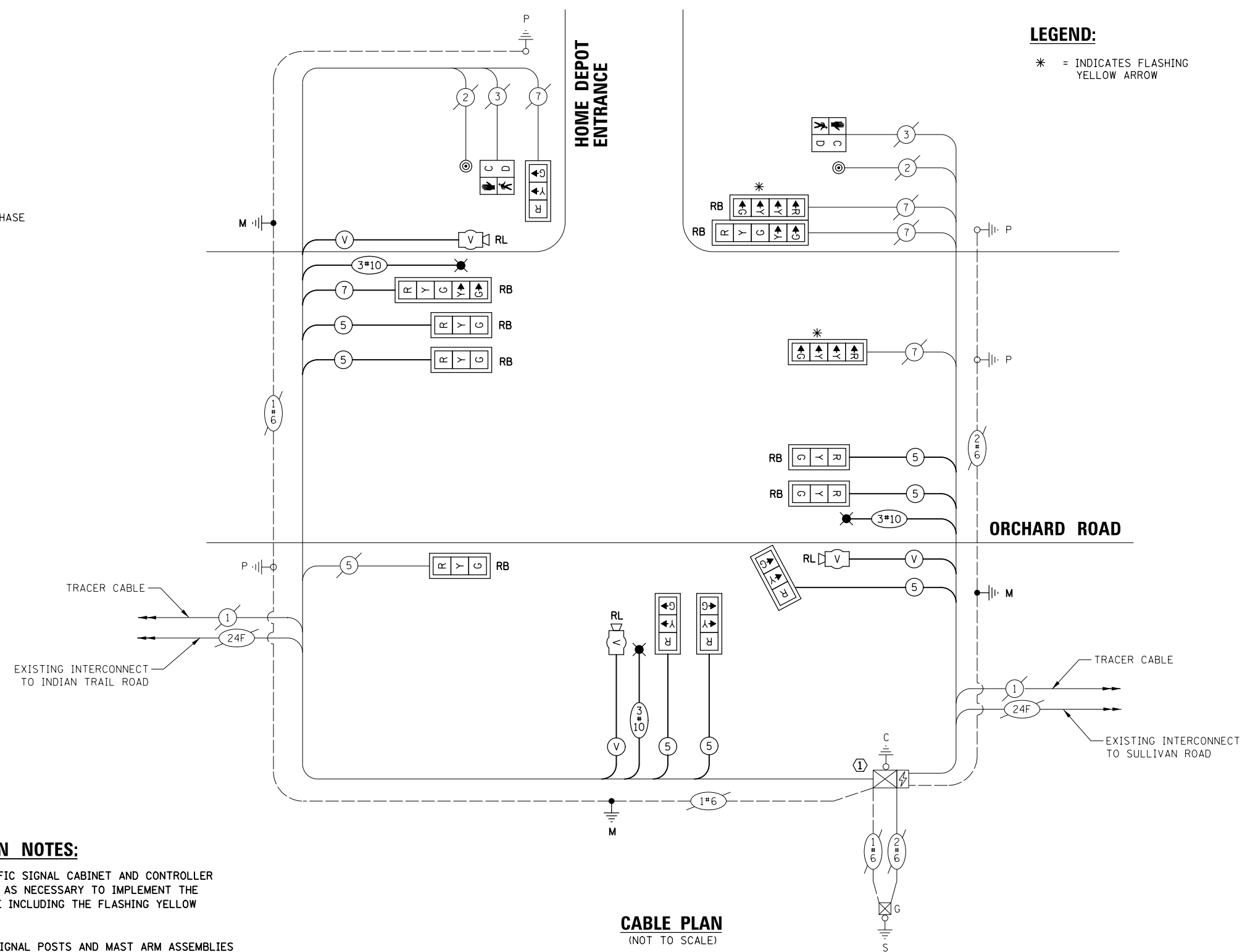
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 7
D	= 4 (Y+R)	+ 5

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	7	20	5	7.0
(GREEN)	7	12	45	37.8
SOLID ARROW (RED)	4	10	50	20.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	2	10	5	1.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	250	50	375.0
TOTAL =				821.3

ENERGY COSTS TO:
 CITY OF AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60505
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

TS SHT NO. 105



CABLE PLAN
(NOT TO SCALE)

CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

FILE NAME 017_Orchard-HomeDepot_03.CAB	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
ORCHARD ROAD AND HOME DEPOT ENTRANCE

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 105
CONTRACT NO.			HSIP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	15
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	55
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	171
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,668
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	2
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,154
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	275
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	553
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	35
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	7
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,267
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	77.1

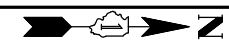
PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
NOTE BOOK	BLM. NOTED		
	STRUCTURE NOTATIONS OK'D		
PLAN	SURVEYED	BY	DATE
	ALIGNMENT CHECKED		
NOTE BOOK	RT. OF WAY CHECKED		
	ADD. FILE NAME		

CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 922-5939



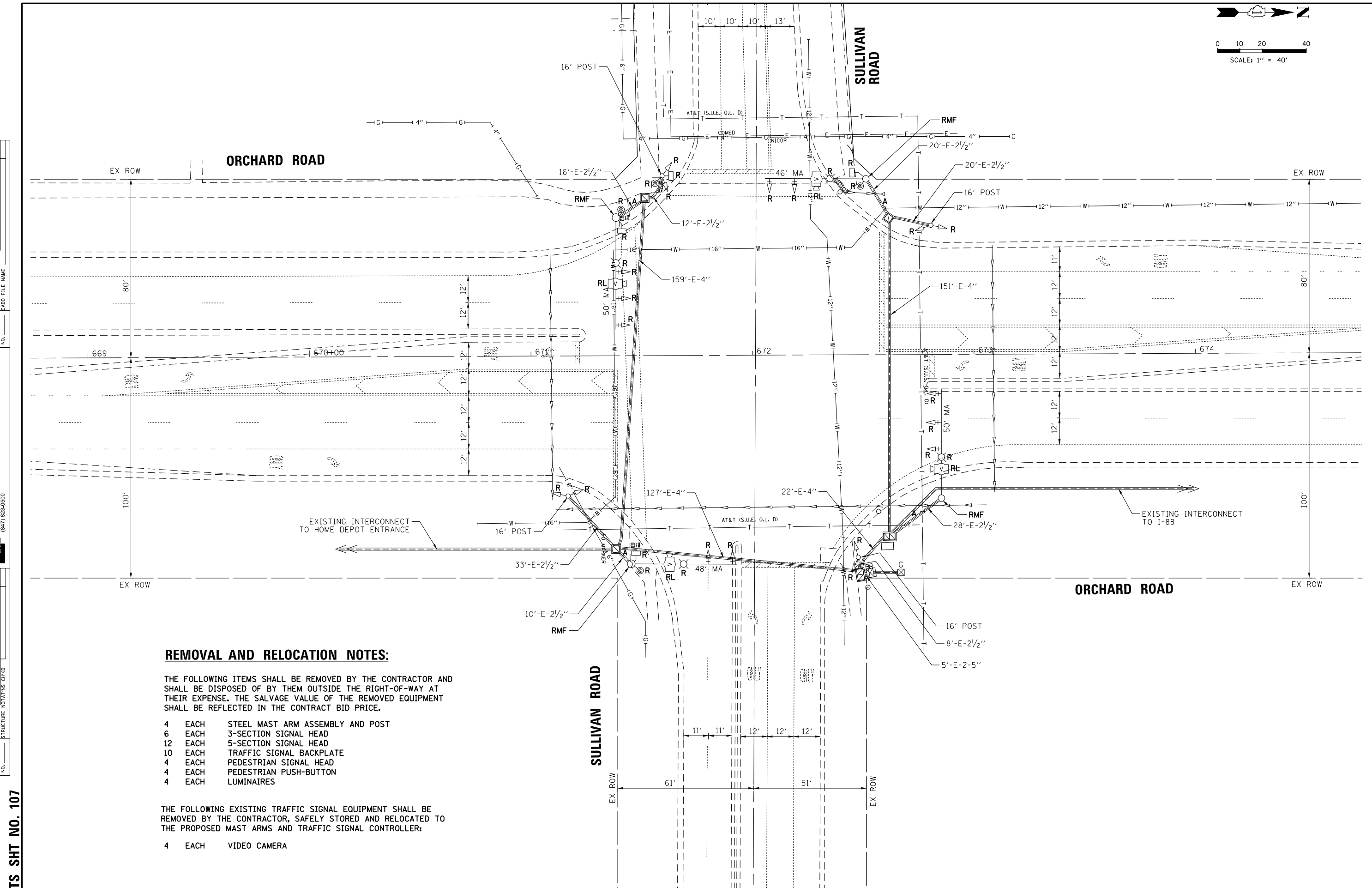
TS SHT NO. 106

FILE NAME 017_Orchard-HomeDepot 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND HOME DEPOT ENTRANCE	F.A.P. RTE. 363	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 106	
	PLLOT SCALE = 48'	CHECKED - GMZ	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO.		
	PLLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)



0 10 20 40
SCALE: 1" = 40'

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
		RT. OF WAY CHECKED			
		ADD. FILE NAME			
PLAN					
NOTE BOOK NO.					
ENGINEERING LTD.					
CHRISTOPHER B. BURKE					
3575 West Higgins Road, Suite 600					
Rosemont, Illinois 60018					
(617) 923-5930					
DATE					
BY					
SURVEYED					
GRADES CHECKED					
E.L.M. NOTED					
STRUCTURE NOTATIONS OK'NO					
PROFILE					
NOTE BOOK NO.					



REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 12 EACH 5-SECTION SIGNAL HEAD
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH LUMINAIRES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 4 EACH VIDEO CAMERA

TS SHT NO. 107

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
018.Orchard-Sullivan 01.REM		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

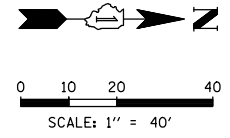
**TRAFFIC SIGNAL REMOVAL PLAN
ORCHARD ROAD AND SULLIVAN ROAD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	107
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

SCALE: SHEET NO. OF SHEETS STA. TO STA.

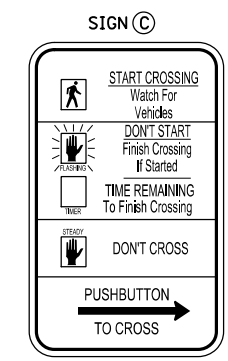
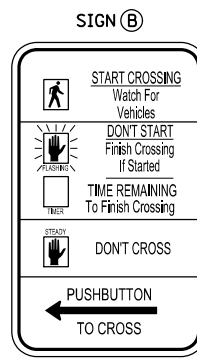
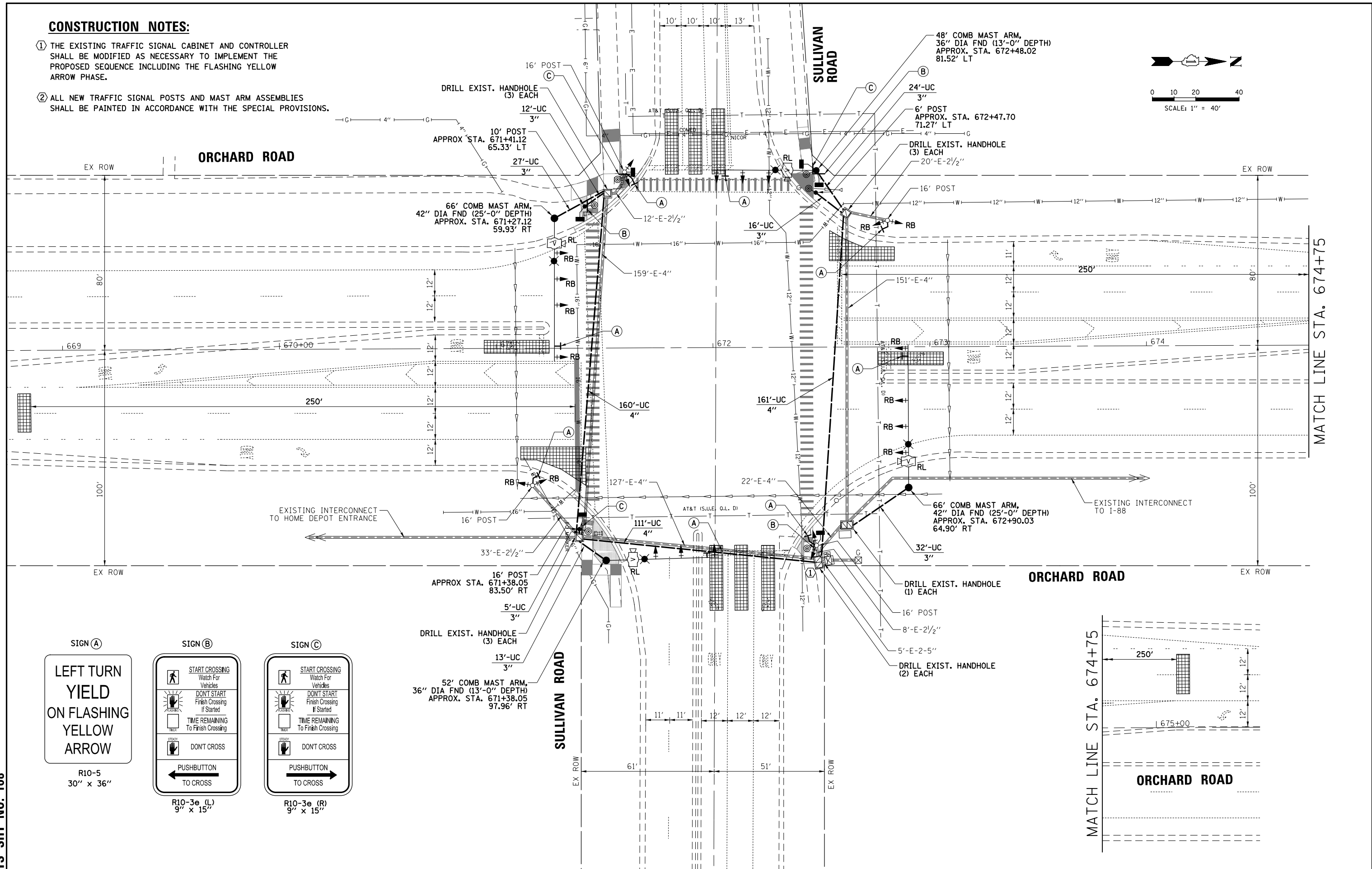
CONSTRUCTION NOTES:

- THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO. 108



FILE NAME	USER NAME = fbariso
018_Orchard-Sullivan 02.MXD	

DESIGNED - TFS	REVISOR -
DRAWN - FPB	REVISOR -
CHECKED - GMZ	REVISOR -
DATE - 12/8/2017	REVISOR -

DESIGNED - TFS	REVISOR -
DRAWN - FPB	REVISOR -
CHECKED - GMZ	REVISOR -
DATE - 12/8/2017	REVISOR -

DESIGNED - TFS	REVISOR -
DRAWN - FPB	REVISOR -
CHECKED - GMZ	REVISOR -
DATE - 12/8/2017	REVISOR -

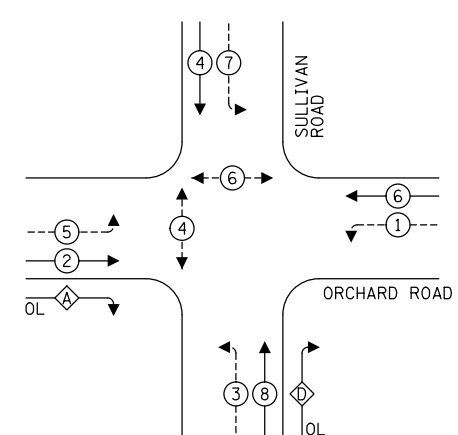
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363	12-00424-00-SP	KANE	172	108
FAP 336				
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HS1P-0089(171)				

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 PLAN: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK: _____ NO. _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 923-5500
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PROFILE: _____ BLM. NOTED: _____
 NOTE BOOK: _____ STRUCTURE NOTATIONS: CWK0

EXISTING CONTROLLER SEQUENCE



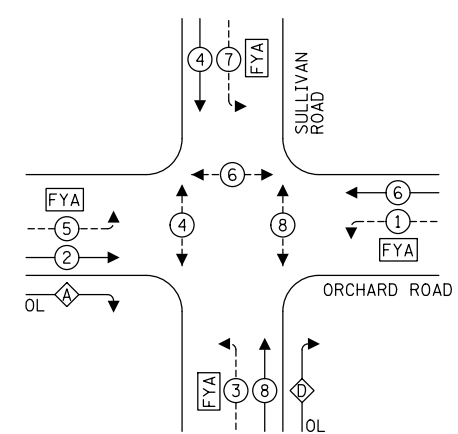
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2 +	3
D =	8 +	1

LEGEND:

- ← * → PROTECTED PHASE
- ← * - - - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP
- [FYA] FLASHING YELLOW ARROW

PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2 +	3
D =	8 +	1

LEGEND:

- ← * → PROTECTED PHASE
- ← * - - - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP
- [FYA] FLASHING YELLOW ARROW

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	24	10	10	24.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1117.7

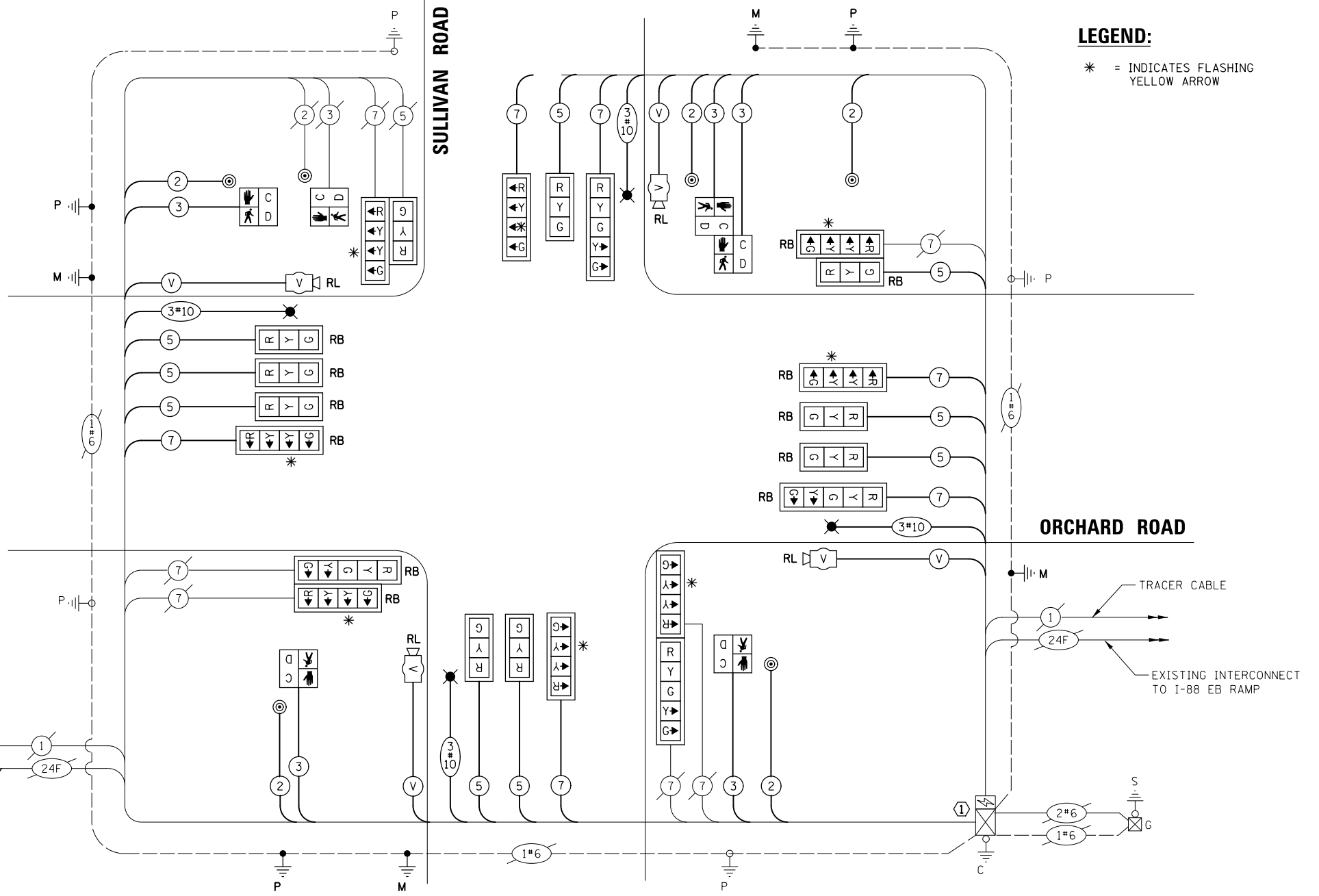
ENERGY COSTS TO:
 CITY OF AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60505
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

TS SHT NO. 109

FILE NAME 018_Orchard-Sullivan_03.CAB	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

CONSTRUCTION NOTES:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- ② ALL NEW TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



CABLE PLAN (NOT TO SCALE)

LEGEND:

* = INDICATES FLASHING YELLOW ARROW

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 ORCHARD ROAD AND SULLIVAN ROAD**

SCALE: _____ SHEET NO. _____ OF _____ SHEETS _____ STA. _____ TO STA. _____

F.A.P. RTE. 363	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 109
FAP 336			CONTRACT NO. HSIP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	127
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	432
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,471
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	3
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	954
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,098
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,150
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,506
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	724
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE	EACH	13
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	6
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,162
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	BLM. NOTED	
	STRUCTURE NOTATIONS	
	CHKD	
PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
NO.	RT. OF WAY CHECKED	
	ADD. FILE NAME	


CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-9900

TS SHT NO. 110

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND SULLIVAN ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
018_Orchard-Sullivan 03.CAB-2		DRAWN - FPB	REVISED -			FAP 363	12-00424-00-SP	KANE	172	110		
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -			FAP 336						
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -			SCALE:		SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

REMOVAL AND RELOCATION NOTES:

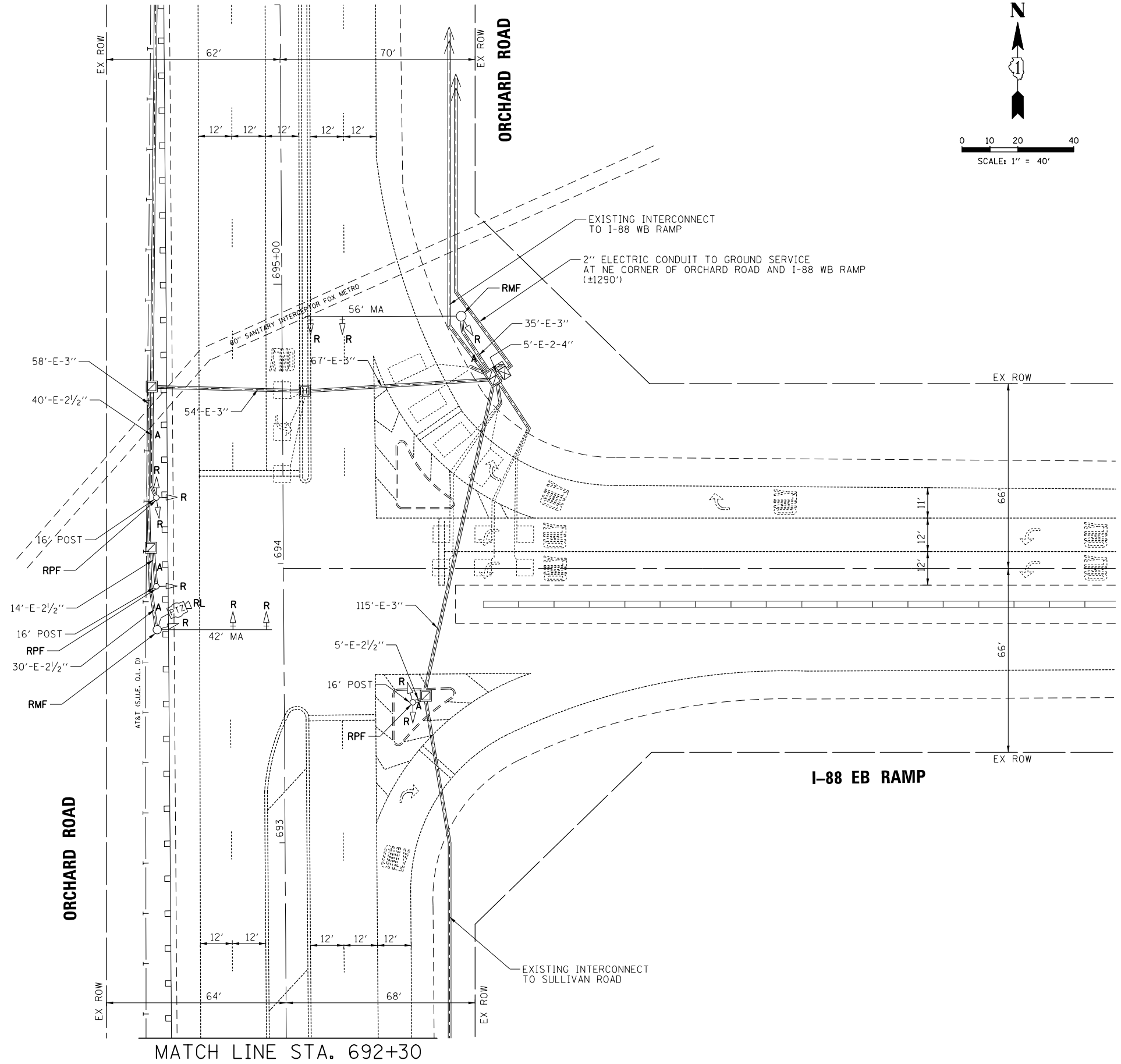
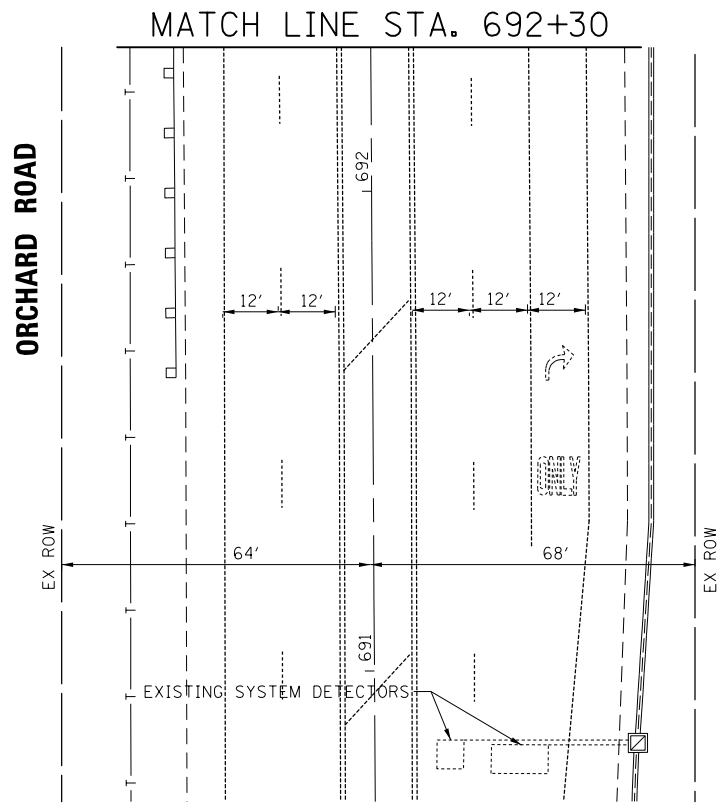
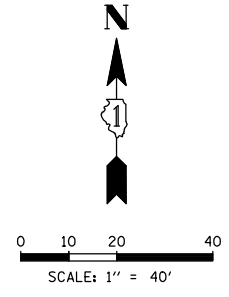
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 10 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 4 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 1 EACH PAN TILT ZOOM CAMERA

DATE	BY	DATE	BY
SURVEYED	ALIGNED	CHECKED	CHECKED
RT. OF WAY	CHECKED	RT. OF WAY	CHECKED
ADD. FILE NAME			
PLAN	NOTE BOOK		
NO.	NO.		
ENGINEERING LTD. 3575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (630) 923-5930			
PROFILE	SURVEYED	DATE	BY
NOTE BOOK	GRADES CHECKED		
NO.	BLM. NOTED		
	STRUCTURE NOTATIONS OK'D		

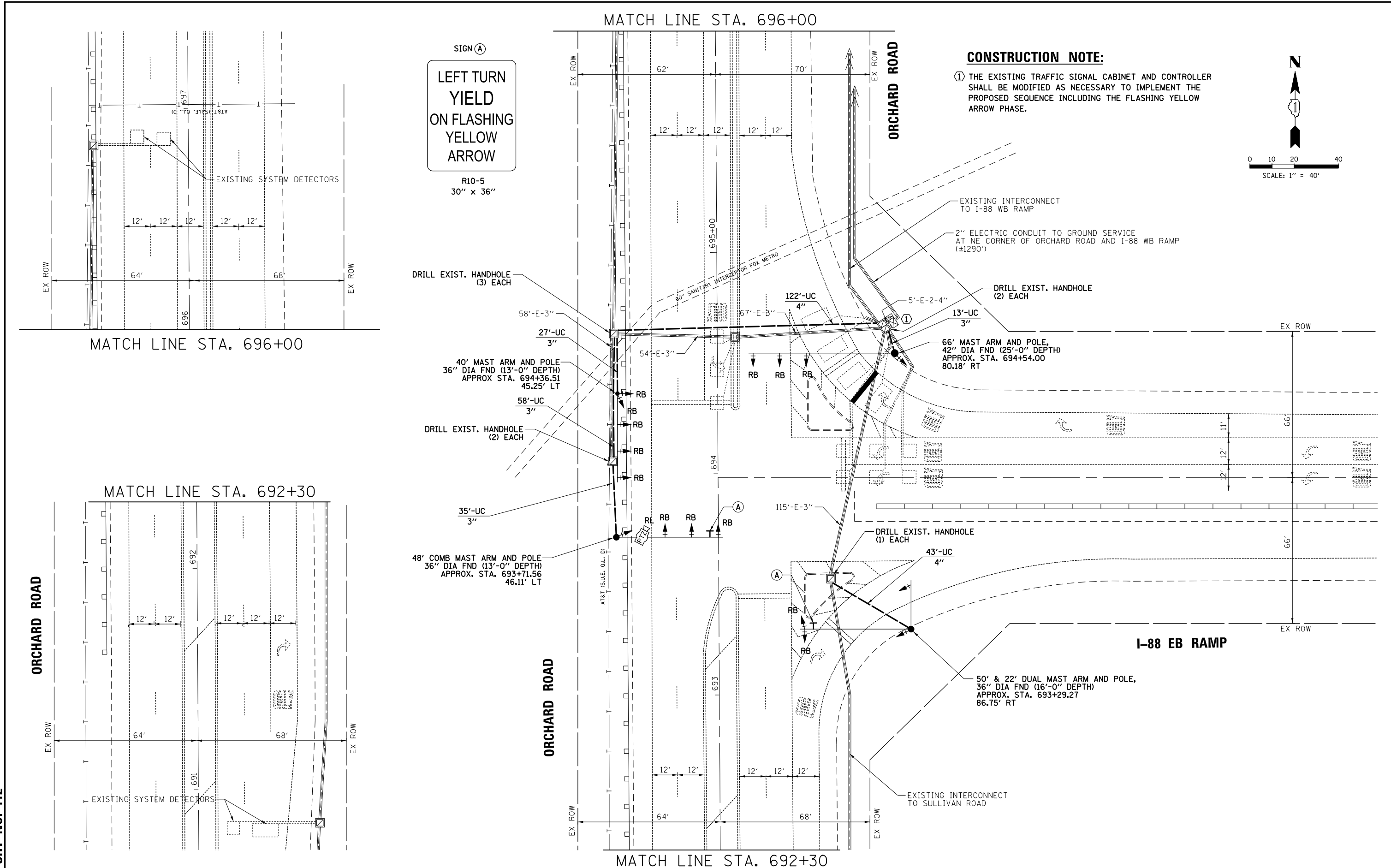


FILE NAME 019_Orchard-I-88 EB Ramp 01.REM	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL REMOVAL PLAN ORCHARD ROAD AND I-88 EB RAMP			F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 111
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.		
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)							

DATE	BY	DATE	BY
PROF. FILE	SURVEYED	PLAN	BY
NOTE BOOK	GRADES CHECKED	NOTE BOOK	NO.
NO.	BLM. NOTED	NO.	
	STRUCTURE NOTATIONS OK'D		

TS SHT NO. 112

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3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(647) 923-9500



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
019_Orchard-1-88 EB Ramp_02_M00		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

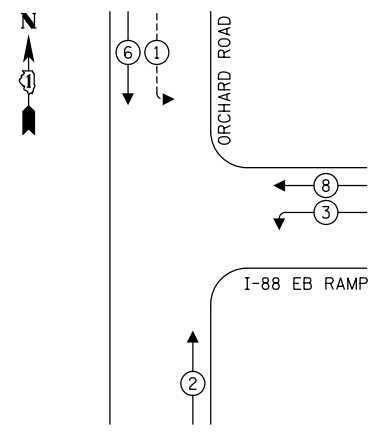
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

TRAFFIC SIGNAL MODIFICATION PLAN
ORCHARD ROAD AND I-88 EB RAMP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363	12-00424-00-SP	KANE	172	112
FAP 336				
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

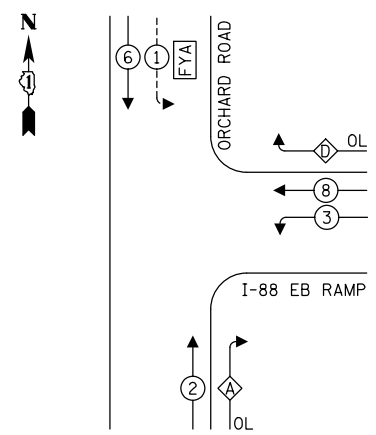
DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 PLAN: _____ RT. OF WAY CHECKED: _____
 NO. _____ NO. _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5930
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PROFILE: _____ STRUCTURE NOTATIONS: OK/KO
 NO. _____ NO. _____

EXISTING CONTROLLER SEQUENCE



- LEGEND:**
- ← ⊛ → PROTECTED PHASE
 - ← ⊛ ⊛ → PROTECTED/PERMITTED PHASE
 - ← ⊛ → PEDESTRIAN PHASE
 - ← ⊛ OL → OVERLAP

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← ⊛ → PROTECTED PHASE
 - ← ⊛ ⊛ → PROTECTED/PERMITTED PHASE
 - ← ⊛ → PEDESTRIAN PHASE
 - ← ⊛ OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2 + 3	
D	= 8+Y+R + 1	

CONSTRUCTION NOTE:

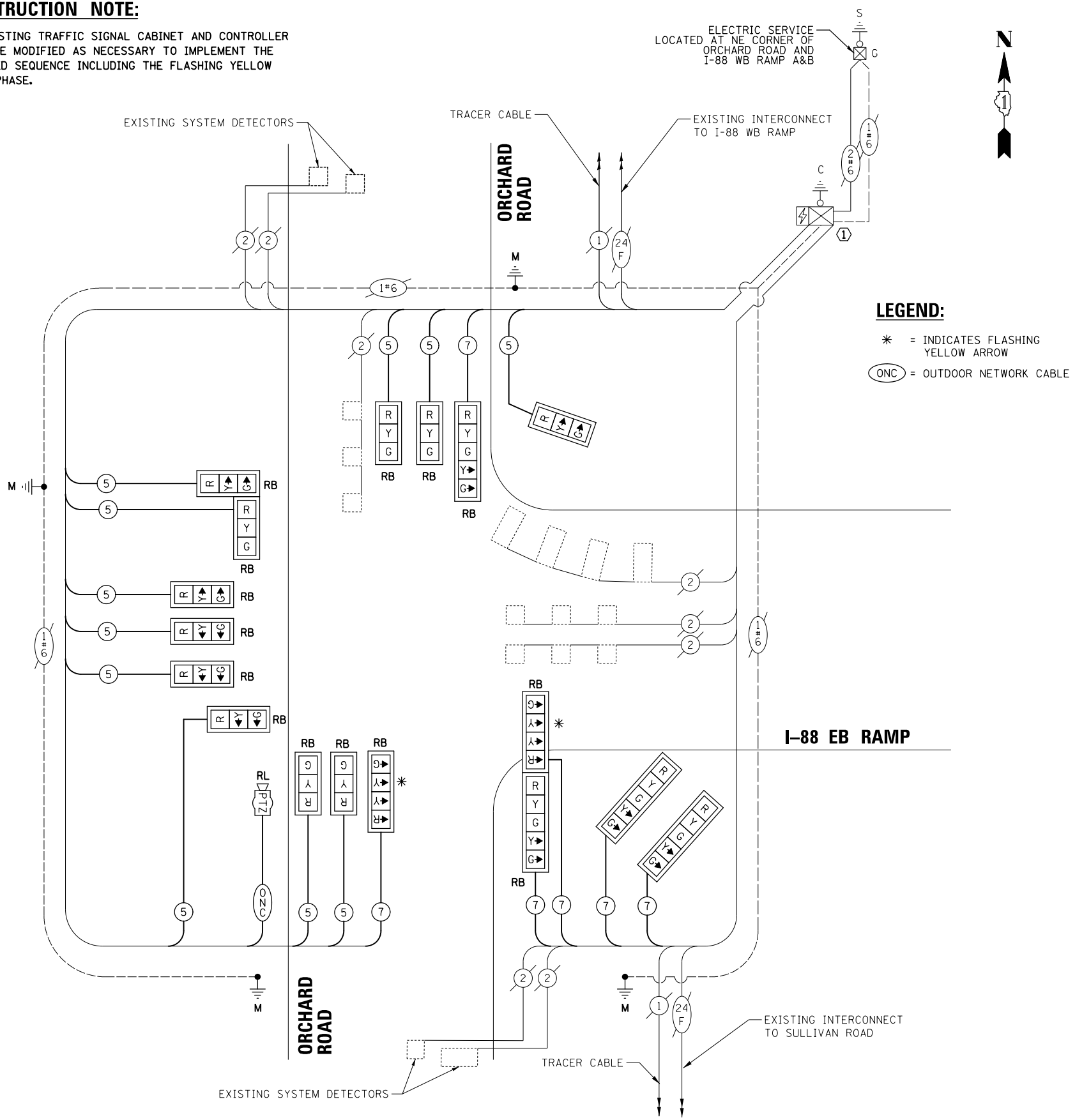
① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
SOLID ARROW (RED)	2	10	50	10.0
(GREEN & YELLOW)	24	10	10	24.0
FLASHING ARROW	2	10	5	1.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
TOTAL =				338.5

ENERGY COSTS TO:
 KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, IL 60175
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

TS SHT NO. 113



- LEGEND:**
- * = INDICATES FLASHING YELLOW ARROW
 - = OUTDOOR NETWORK CABLE

CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 ORCHARD ROAD AND I-88 EB RAMP**

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

FILE NAME
 019_Orchard-I-88 EB Ramp_03.CAB

USER NAME = fbariso
 DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE - 12/8/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -

F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 113
CONTRACT NO.			HSIP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	15
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	131
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	165
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,092
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,379
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	452
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 50 FT. AND 22 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	42
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
DRILL EXISTING HANDHOLE	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
TRAFFIC SIGNAL BACKPLATE	EACH	9
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,048
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	77.1

PROFILE SURVEYED _____ GRADES CHECKED _____ E.M. NOTED _____ STRUCTURE NOTATIONS OK/NO _____ NO. _____	PLAN SURVEYED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ PADD FILE NAME _____ NO. _____
BY _____ DATE _____	BY _____ DATE _____

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 (647) 923-5500



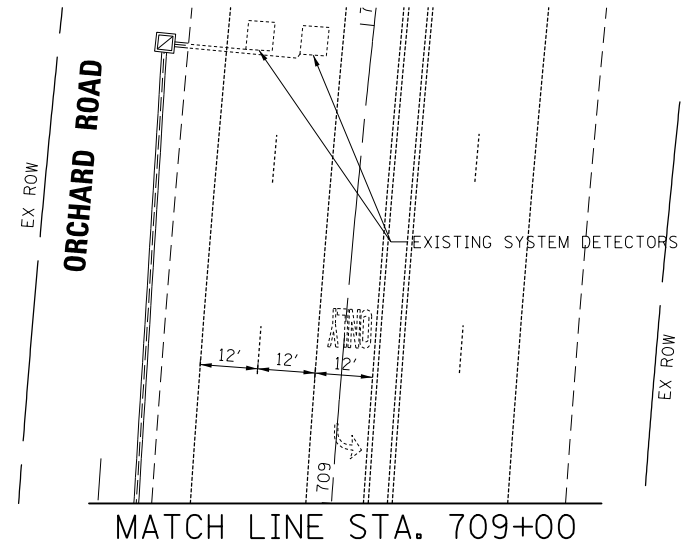
TS SHT NO. 114

FILE NAME 019_Orchard-1-88 EB Ramp 03_CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND I-88 EB RAMP	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 114
		DRAWN - FPB	REVISED -									
		CHECKED - GMZ	REVISED -									
		PLotted SCALE = 48'	DATE - 12/8/2017									
								FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			HSIP-0089(171)

PROFILE	SURVEYED	DATE
GRADES CHECKED	BY	
BLM. NOTED		
STRUCTURE NOTATIONS OK'D		
NOTE BOOK NO.	PLAN	DATE
	NO.	
	NO.	
	NO.	
	NO.	

TS SHT NO. 115

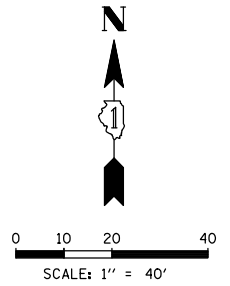
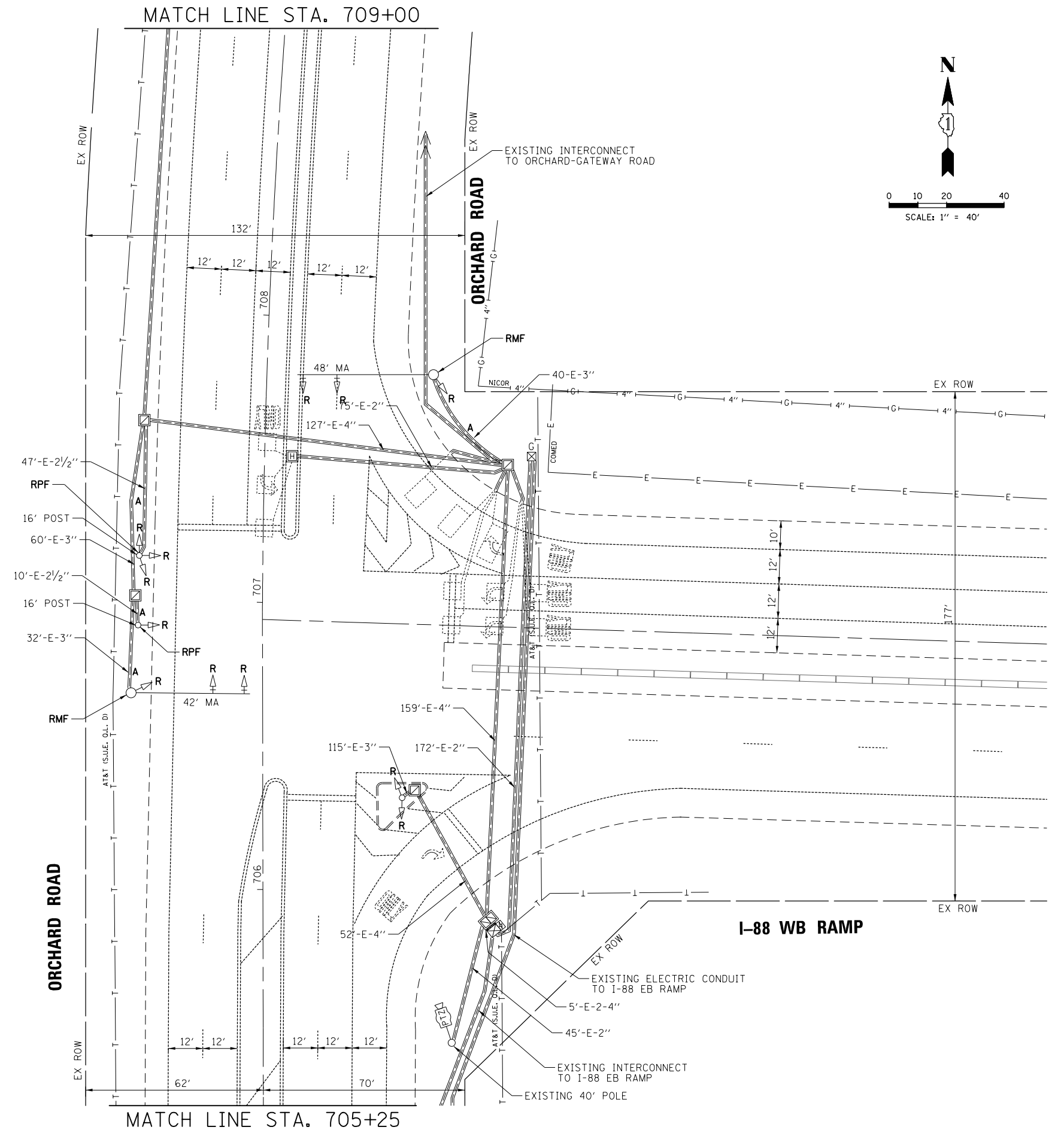
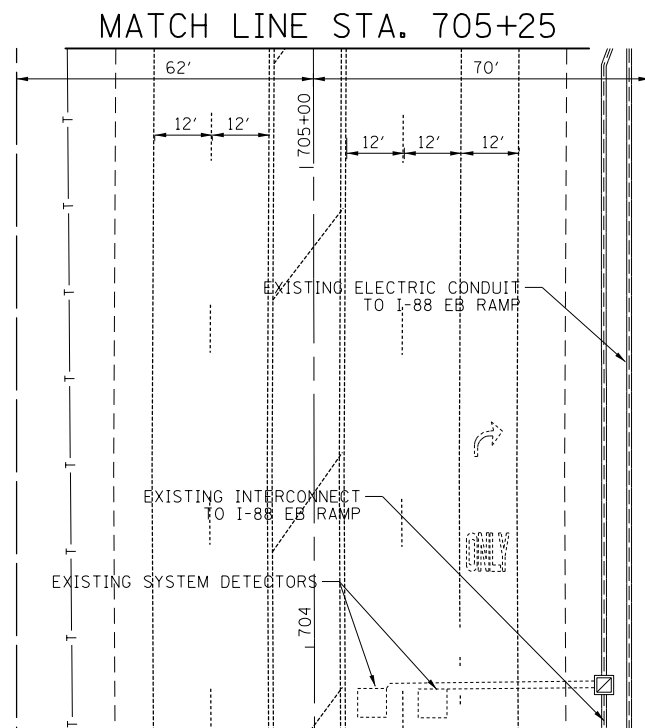
CHRISTOPHER B. BURKE
ENGINEERING LTD.
3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(617) 923-5930



REMOVAL AND RELOCATION NOTES:

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.

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 2 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 4 EACH TRAFFIC SIGNAL BACKPLATE



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
020_Orchard-1-88 WB Ramp 01_REM		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
ORCHARD ROAD AND I-88 WB RAMP

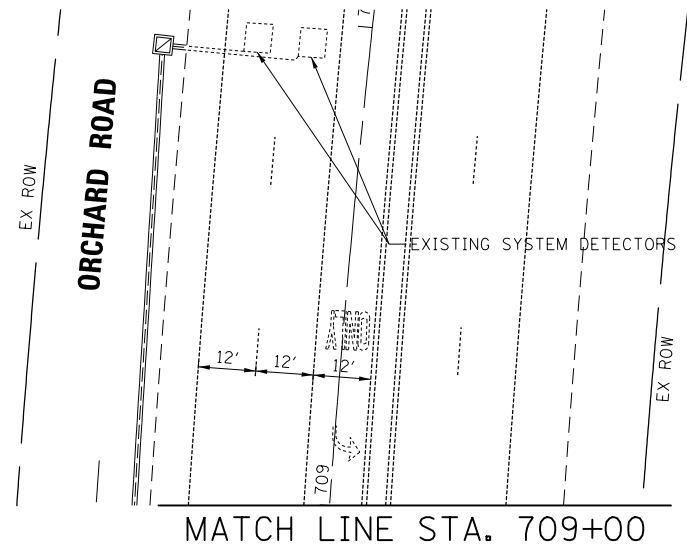
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	115
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)				

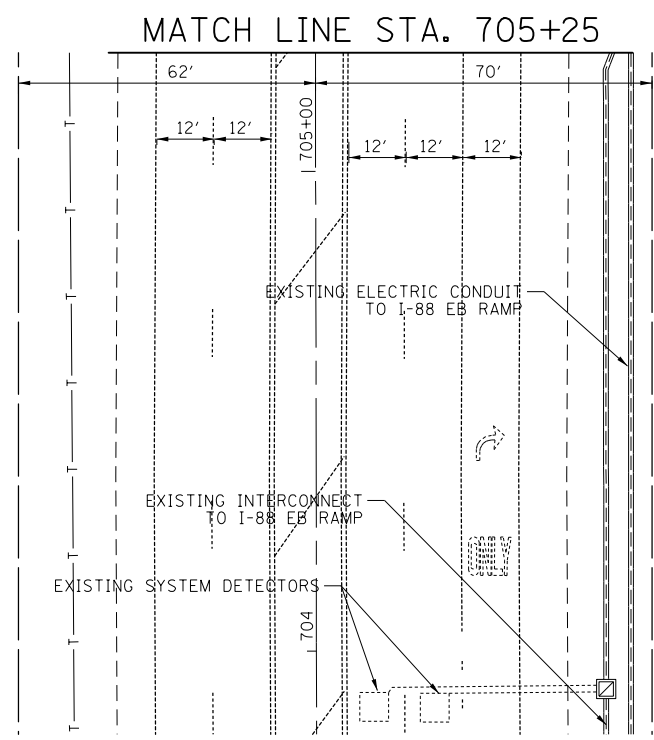
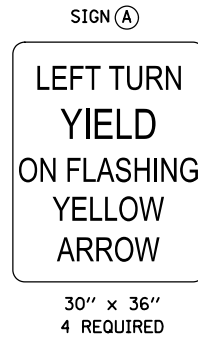
DATE	BY	DATE	BY
PROF. FILE	SURVEYED	GRADES CHECKED	BLM. NOTED
NOTE BOOK NO.	STRUCTURE NOTATIONS OK'D		
PLAN	SURVEYED	ALIGNED	CHECKED
NOTE BOOK NO.	RT. OF WAY CHECKED	ADJ. FILE NAME	

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 Rosemont, Illinois 60018
 (630) 923-5500

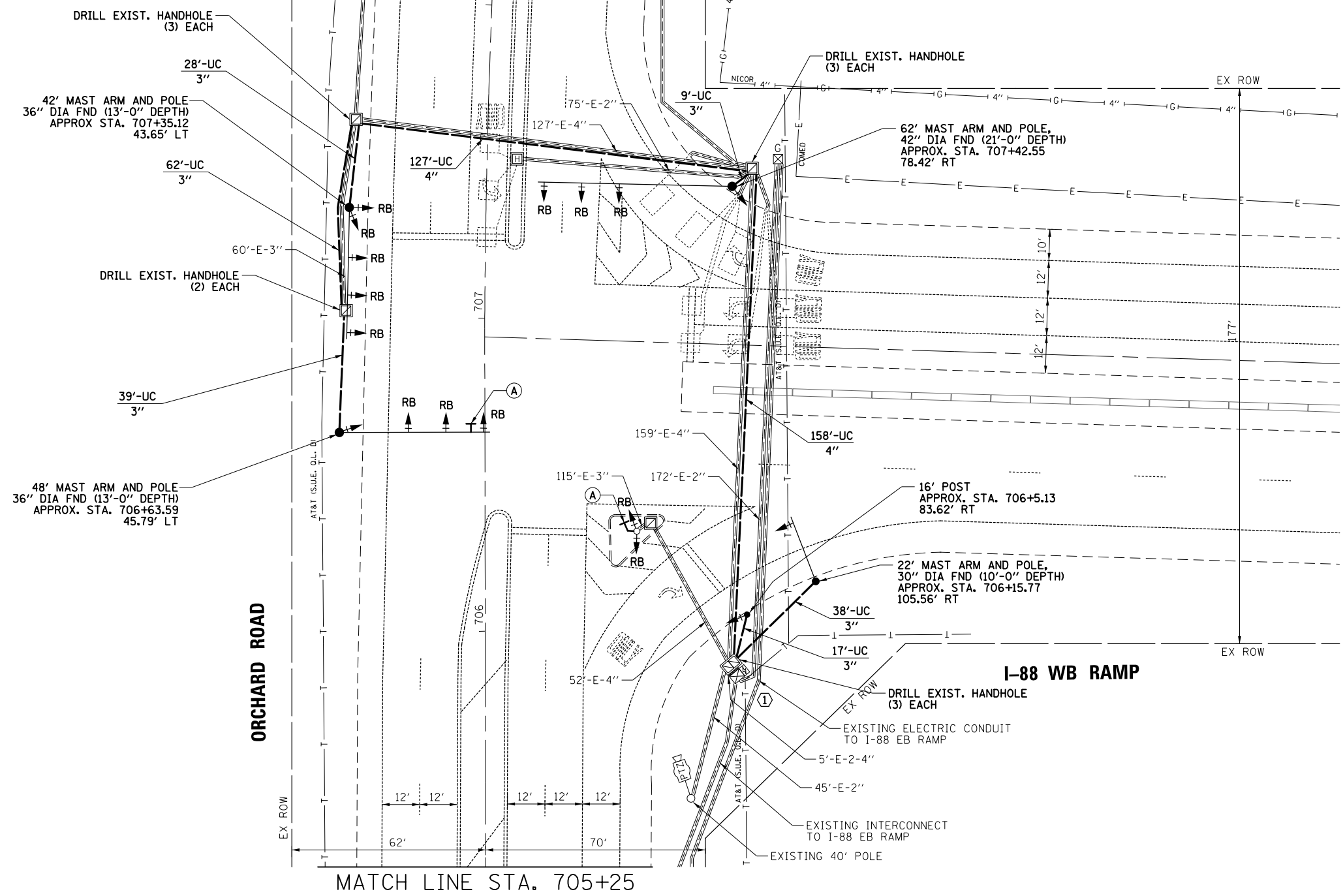
TS SHT NO. 116



MATCH LINE STA. 709+00



MATCH LINE STA. 705+25

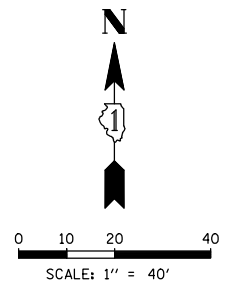


MATCH LINE STA. 705+25

CONSTRUCTION NOTE:

① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.

EXISTING INTERCONNECT TO ORCHARD-GATEWAY ROAD



FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
020_Orchard-I-88 WB Ramp 02.MXD		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL MODIFICATION PLAN
 ORCHARD ROAD AND I-88 WB RAMP**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	116
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

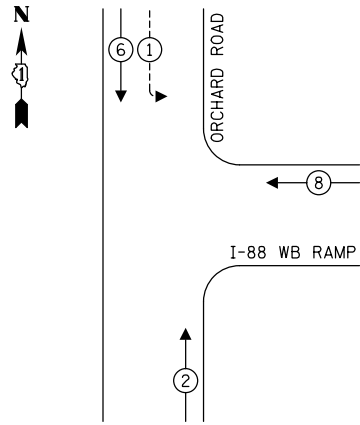
DATE	BY	DATE	BY
PROF. FILE	SURVEYED	PLAN	SURVEYED
NOTE BOOK	GRADES CHECKED	NOTE BOOK	ALIGNMENT CHECKED
	BLM. NOTED		RT. OF WAY CHECKED
	STRUCTURE NOTATIONS OK'D		ADJ. FILE NAME

TS SHT NO. 117

FILE NAME
020_Orchard-1-88 WB Ramp 03.CAB

USER NAME = fbariso

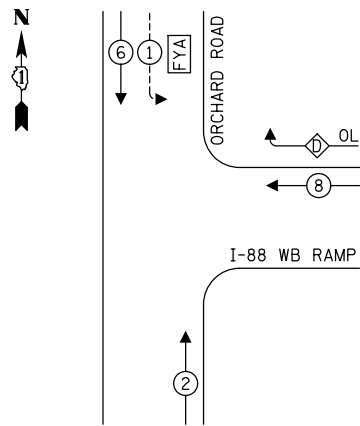
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8+Y+R	+ 1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
SOLID ARROW (RED)	2	10	50	10.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	2	10	5	1.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
TOTAL =				330.5

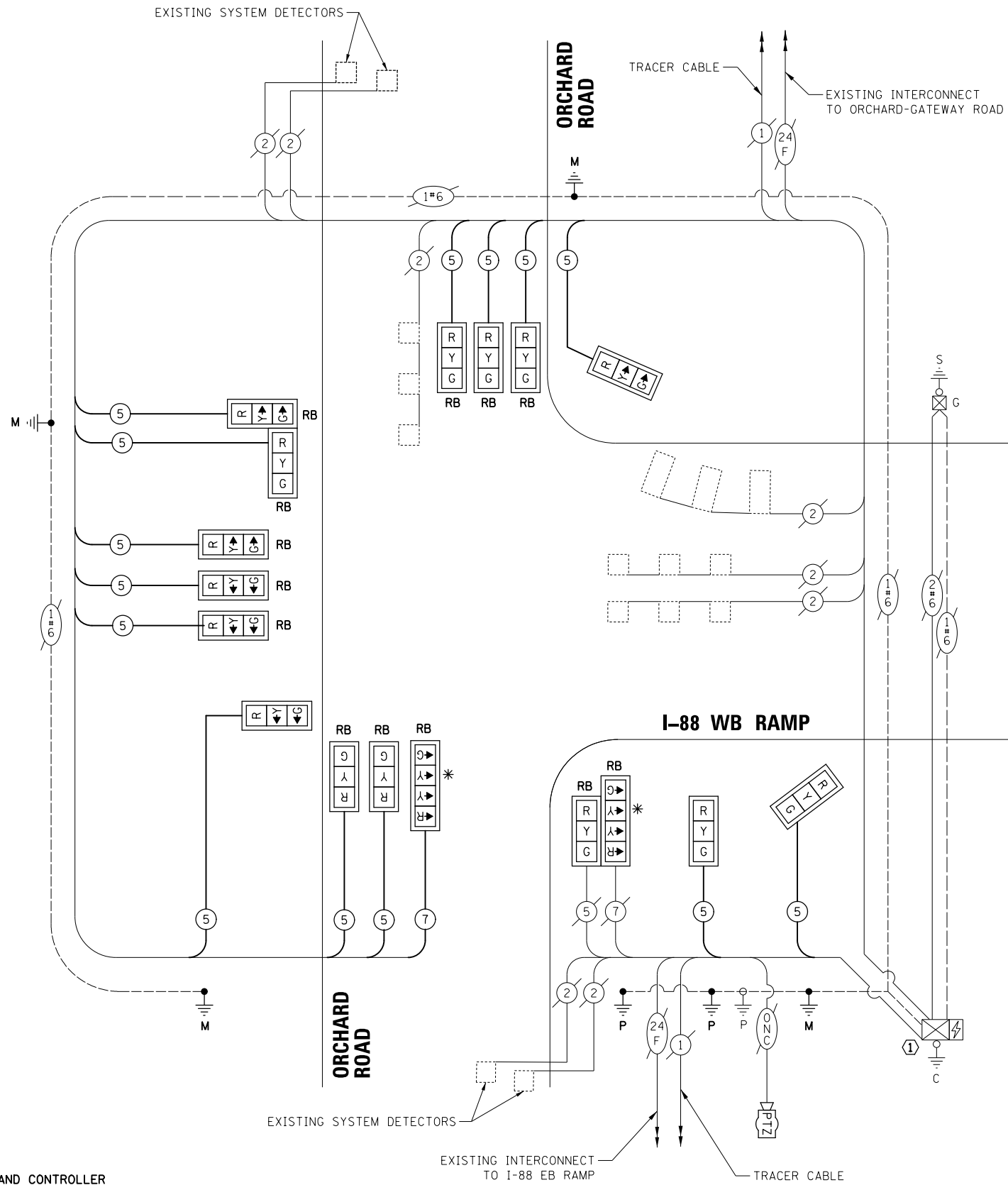
ENERGY COSTS TO:

KANE COUNTY DIVISION OF TRANSPORTATION
41W011 BURLINGTON ROAD
ST. CHARLES, IL 60175

ENERGY SUPPLY: CONTACT: NEW BUSINESS
PHONE: (866) 639-3532
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

CONSTRUCTION NOTE:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN AND PHASE DESIGNATION DIAGRAM
ORCHARD ROAD AND I-88 WB RAMP**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 117
CONTRACT NO.			HSJP-0089(171)	

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

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	15
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	136
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	285
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,465
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	590
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	569
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	90
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	11
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,989
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	77.1

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	BLM. NOTED		
	STRUCTURE NOTATIONS		
	CHKD		
PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNMENT CHECKED		
NO.	RT. OF WAY CHECKED		
	ADD. FILE NAME		

CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 923-5503



TS SHT NO. 118

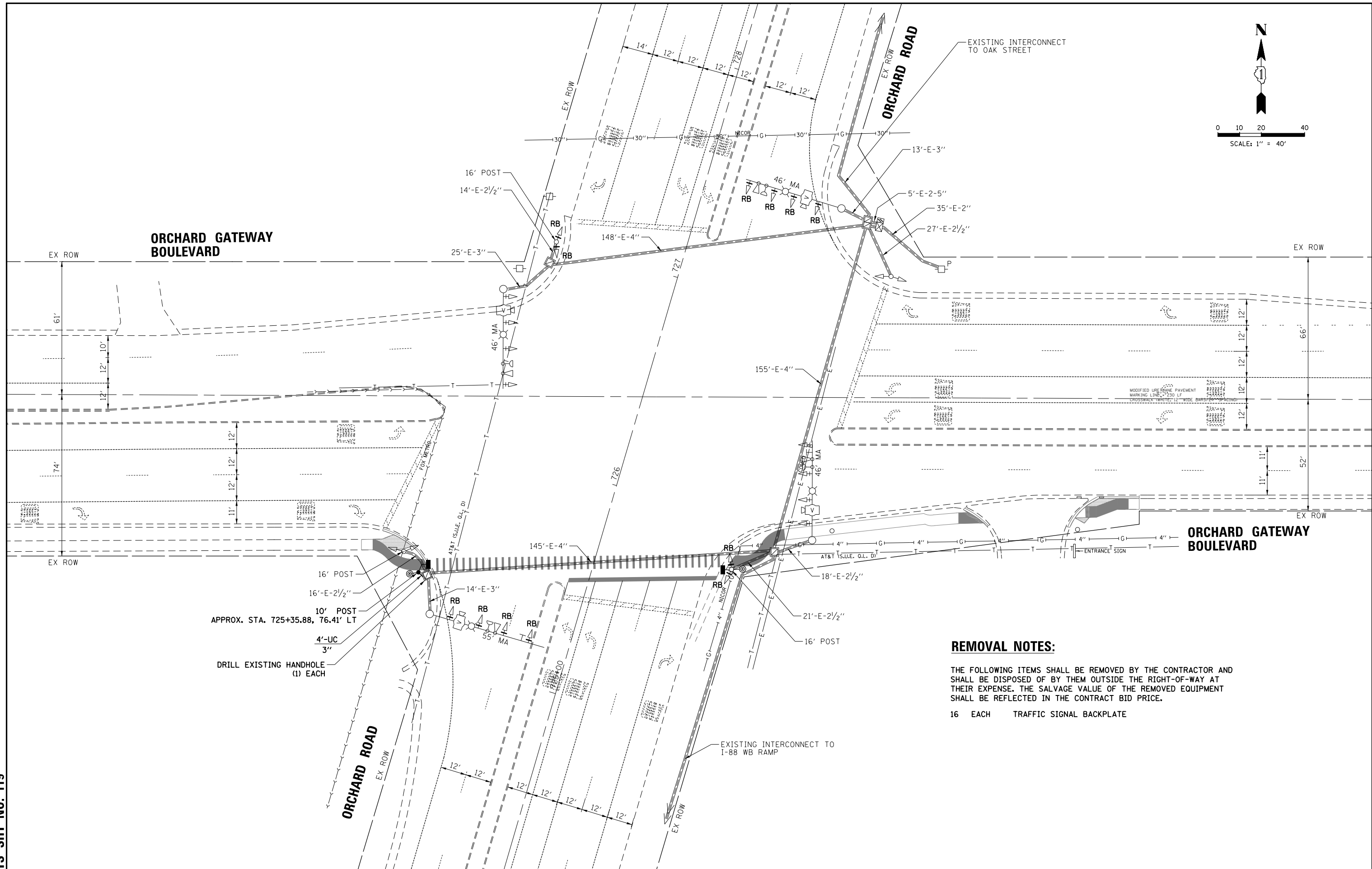
FILE NAME 020_Orchard-1-88 WB Ramp 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND I-88 WB RAMP	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 118		
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	CONTRACT NO.		
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -			FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

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 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (631) 923-5930

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO. 119



REMOVAL NOTES:

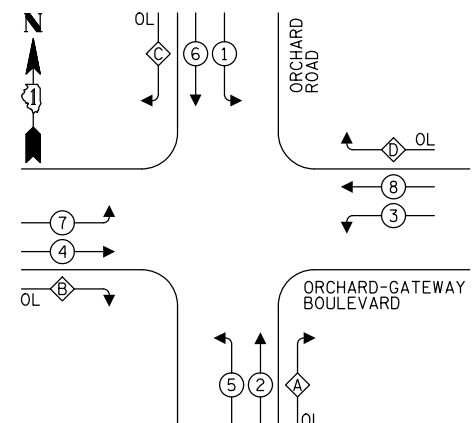
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

16 EACH TRAFFIC SIGNAL BACKPLATE

FILE NAME 026.Orchard-Gateway 01L.MOD Rev	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN ORCHARD ROAD AND ORCHARD GATEWAY BOULEVARD	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 119	
	PLOT SCALE = 48'	DRAWN - FPB	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO.		
	PLOT DATE = 12/8/2017	CHECKED - GMZ	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSP-0089(171)
		DATE - 12/8/2017	REVISED -								

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 RT. OF WAY CHECKED: _____
 NO. _____ DATE: _____
 PLAN: _____
 NOTE BOOK: _____
 NO. _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 823-5500
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 ELEM. NOTED: _____ STRUCTURE NOTATIONS OK'D: _____
 NO. _____

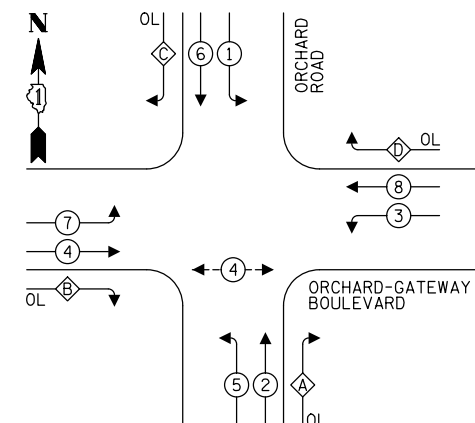
EXISTING CONTROLLER SEQUENCE



**RIGHT TURN OVERLAP
PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

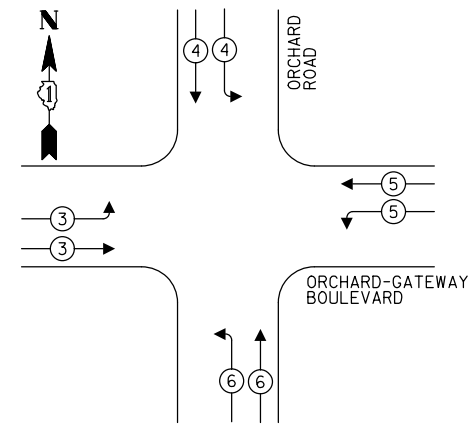
PROPOSED CONTROLLER SEQUENCE



**RIGHT TURN OVERLAP
PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



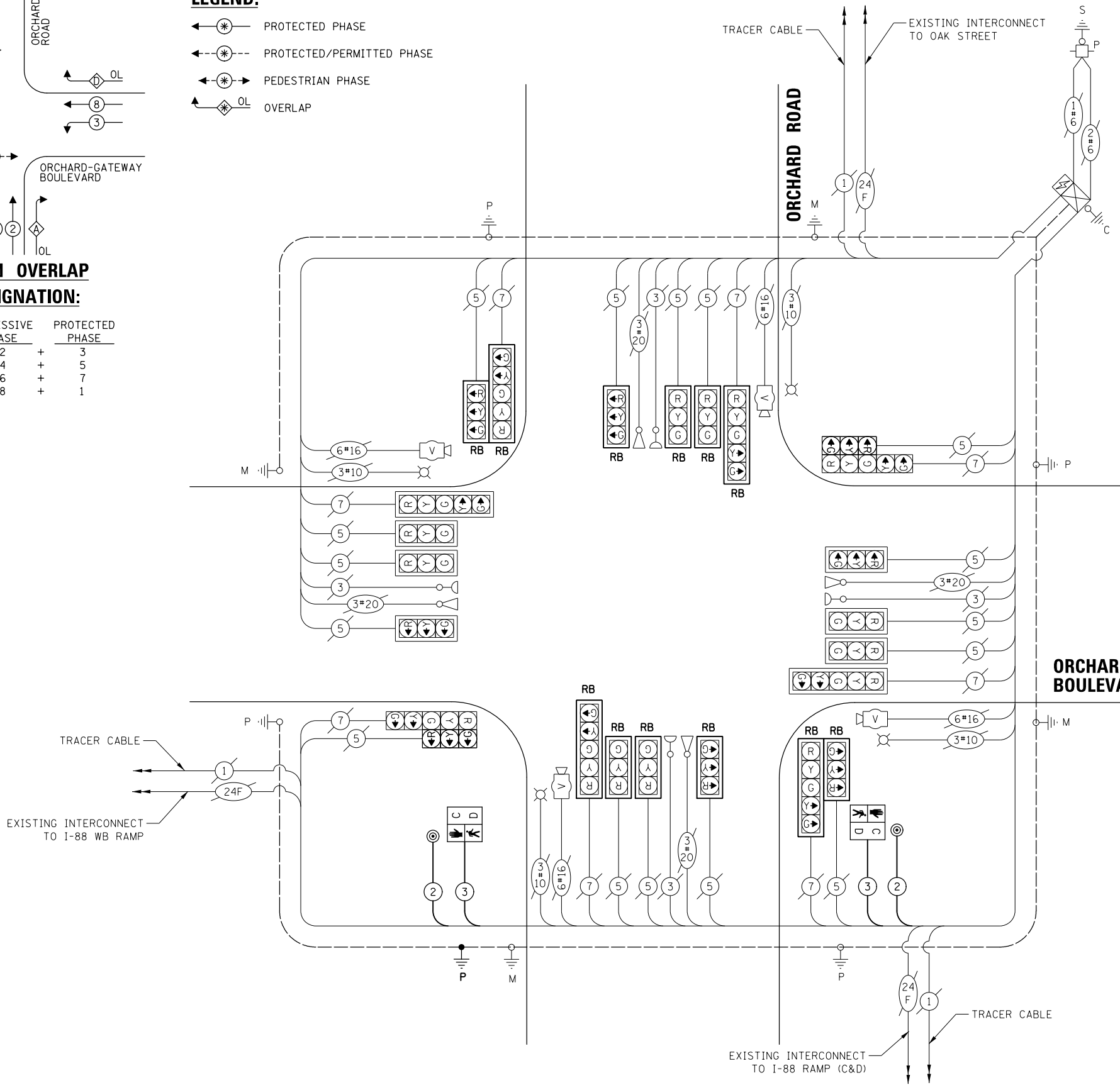
**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	-	10	5	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1061.4

ENERGY COSTS TO:
 VILLAGE OF N. AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60505
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 120

FILE NAME 026.Orchard-Gateway 02.CAB Rev	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
ORCHARD ROAD AND ORCHARD-GATEWAY BOULEVARD**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 120
CONTRACT NO.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10
PEDESTRIAN PUSH-BUTTON	EACH	2

PROFILE SURVEYED _____ GRADES CHECKED _____ E.M. NOTED _____ STRUCTURE NOTATIONS OK/NO NO. _____	PLAN SURVEYED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ CAD FILE NAME _____ NO. _____
BY _____ DATE _____	BY _____ DATE _____

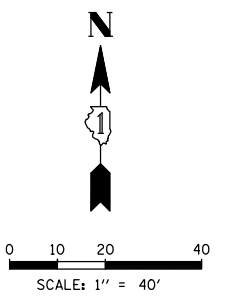
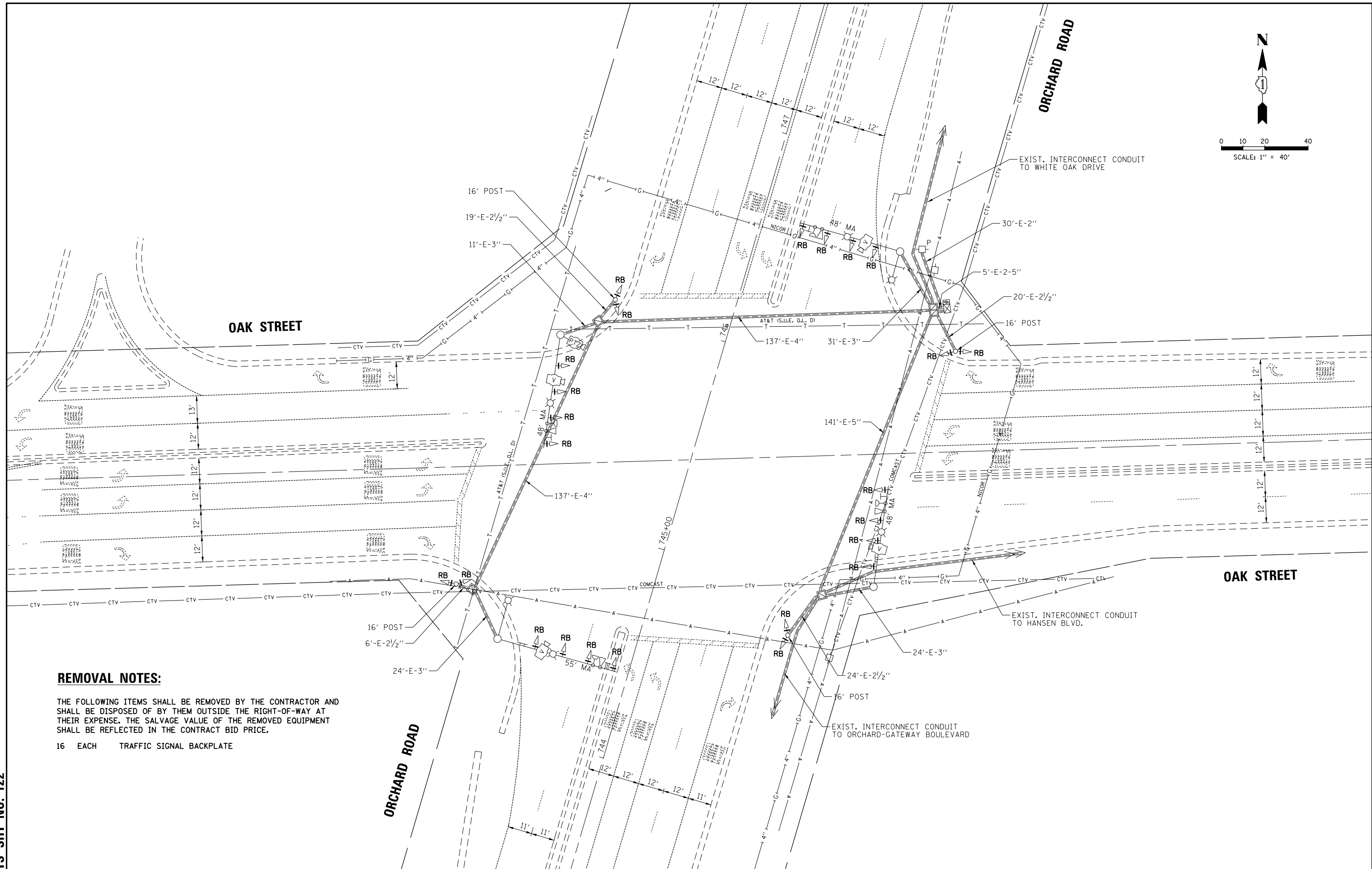

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 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5938

TS SHT NO. 121

FILE NAME 026.Orchard-Gateway 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND ORCHARD-GATEWAY BOULEVARD	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 121
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -							
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)	

DATE	BY	DATE	BY
FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISOR -
027_Orchard-Oak_01.MOD Rev		DRAWN - FPB	REVISOR -
		CHECKED - GMZ	REVISOR -
		DATE - 12/8/2017	REVISOR -

TS SHT NO. 122



REMOVAL NOTES:

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.

- 16 EACH TRAFFIC SIGNAL BACKPLATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

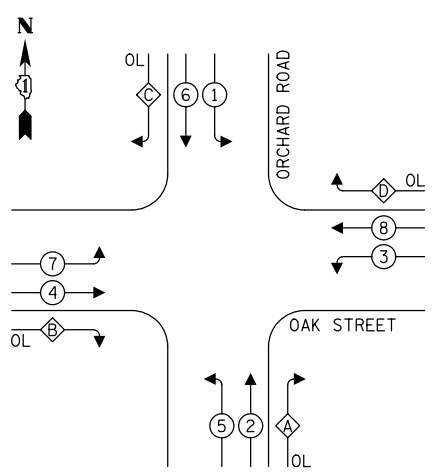
TRAFFIC SIGNAL MODIFICATION PLAN
ORCHARD ROAD AND OAK STREET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	122
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

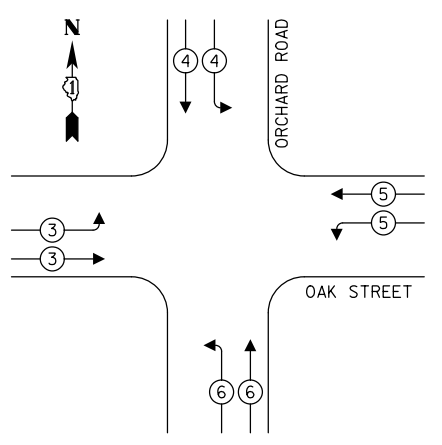
SCALE: SHEET NO. OF SHEETS STA. TO STA.

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 PLAN: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK: _____ NO. _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 923-5500
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PROFILE: _____ ELEM. NOTED: _____
 NOTE BOOK: _____ STRUCTURE NOTATIONS: _____
 NO. _____

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:
 ← ⊛ → PROTECTED PHASE
 ← ⊛ - - → PROTECTED/PERMITTED PHASE
 ← ⊛ → PEDESTRIAN PHASE
 ← ⊛ OL → OVERLAP

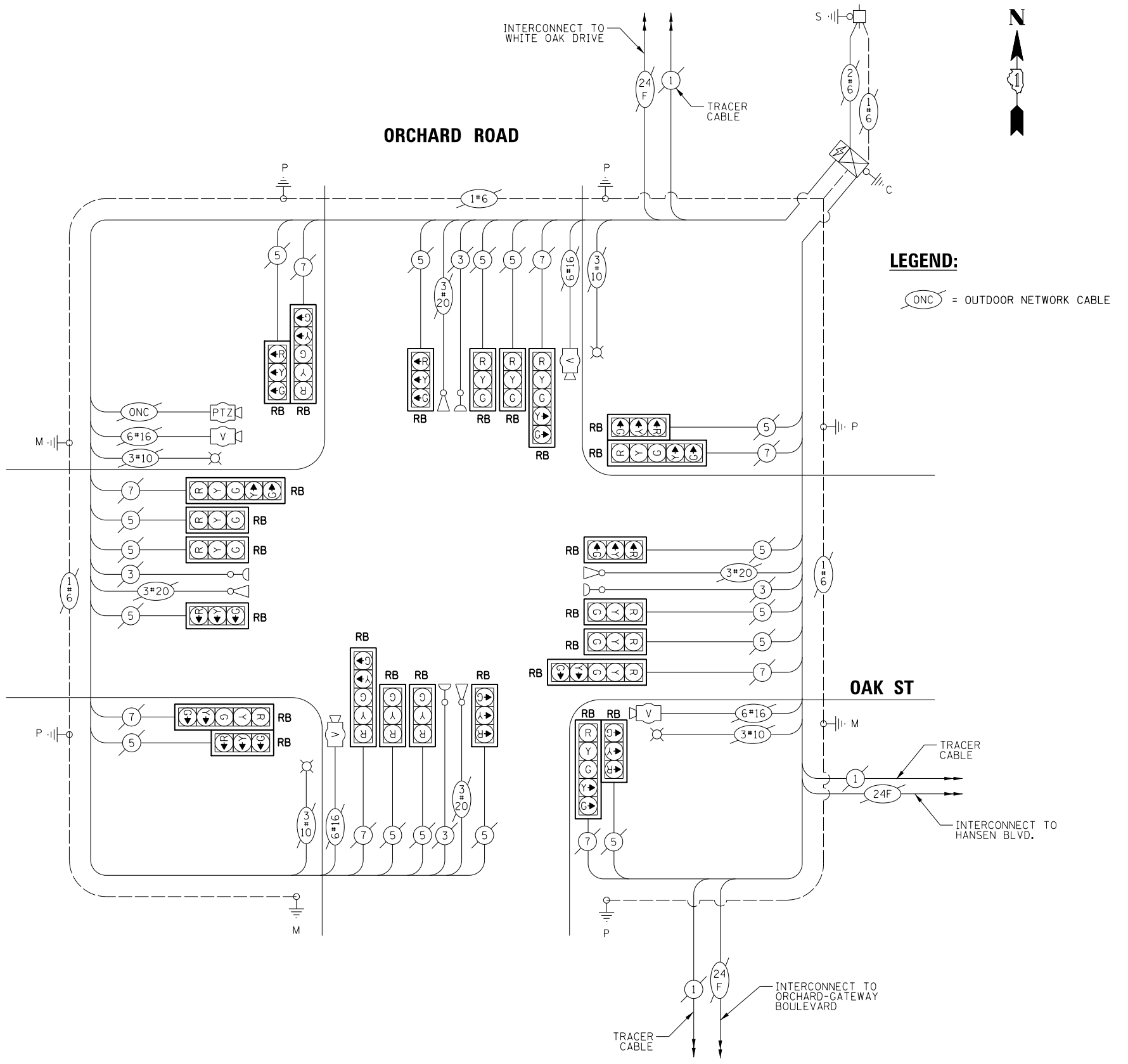
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
SOLID ARROW (RED)	12	10	50	60.0
(GREEN & YELLOW)	40	10	10	40.0
FLASHING ARROW	-	10	5	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	6	250	50	750.0
TOTAL =				1291.6

ENERGY COSTS TO:
 KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, IL 60175
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---



LEGEND:
 ⊛ = OUTDOOR NETWORK CABLE

CABLE PLAN
 (NOT TO SCALE)

TS SHT NO. 123

FILE NAME 027_Orchard-Dak_02_CAB Rev	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ORCHARD ROAD AND OAK STREET

SCALE: _____ SHEET NO. _____ OF _____ SHEETS _____ STA. _____ TO STA. _____

F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 123
CONTRACT NO.			HSIP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18

PROFILE SURVEYED _____ GRADES CHECKED _____ ELEM. NOTED _____ STRUCTURE NOTATIONS CHK'D _____ NO. _____	BY _____ DATE _____
PLAN NOTE BOOK _____ NO. _____	SURVEYED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ CAD FILE NAME _____

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 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-9303

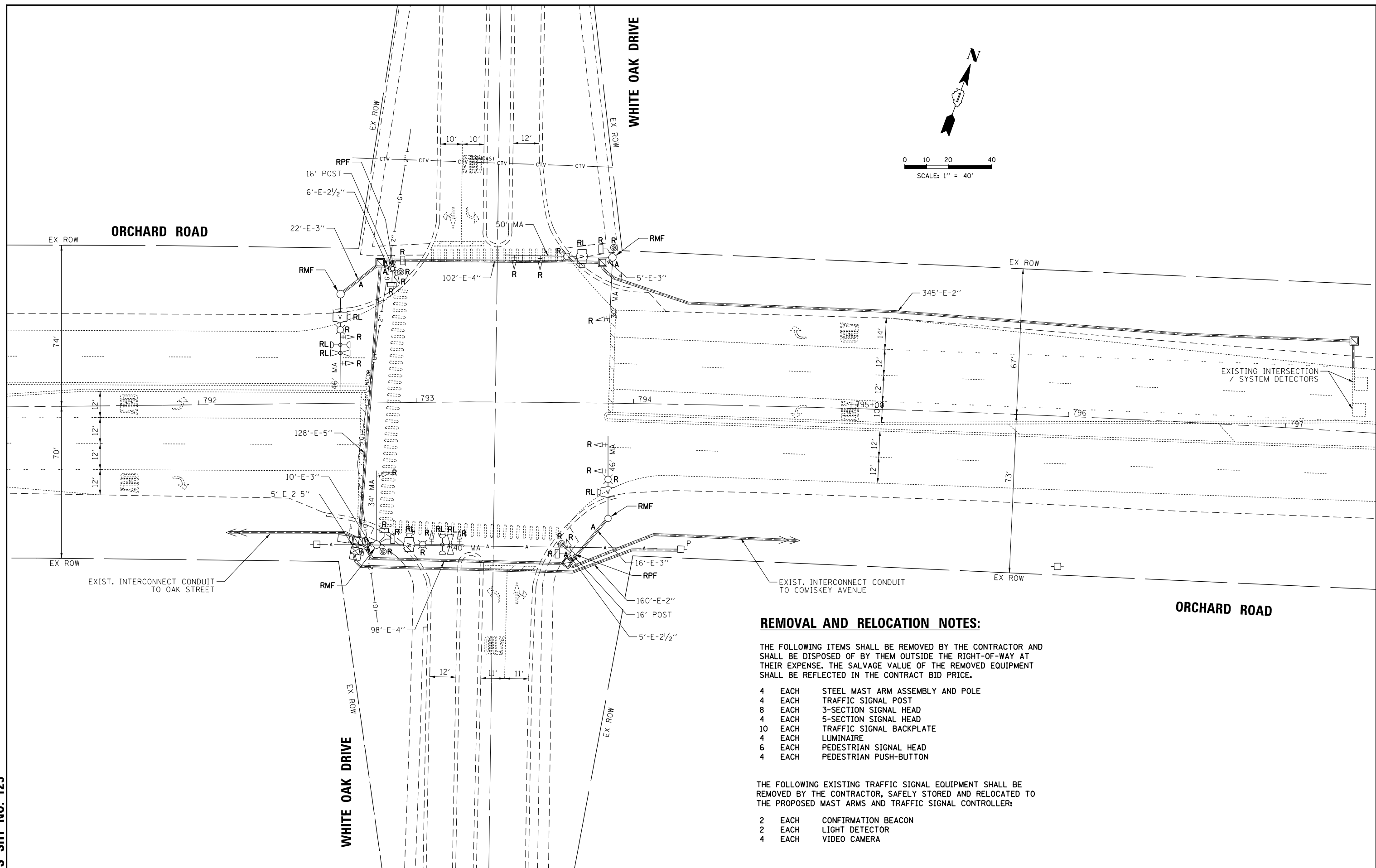


TS SHT NO. 124

FILE NAME 027_Orchard-Oak 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND OAK STREET	F.A.P. RTE. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -			FAP 363 12-00424-00-SP	KANE	172	124	
		CHECKED - GMZ	REVISED -			CONTRACT NO.				
		DATE - 12/8/2017	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

DATE		DATE	
BY		BY	
SURVEYED		SURVEYED	
ALIGNMENT CHECKED		ALIGNMENT CHECKED	
RT. OF WAY CHECKED		RT. OF WAY CHECKED	
CADD FILE NAME		CADD FILE NAME	
NO.		NO.	
PLAN		PLAN	
NOTE BOOK		NOTE BOOK	
NO.		NO.	
ENGINEERING LTD.		ENGINEERING LTD.	
B. BURKE		B. BURKE	
3575 West Higgins Road, Suite 600		3575 West Higgins Road, Suite 600	
Rosemont, Illinois 60018		Rosemont, Illinois 60018	
(631) 923-5930		(631) 923-5930	
DATE		DATE	
BY		BY	
SURVEYED		SURVEYED	
GRADES CHECKED		GRADES CHECKED	
E.M. NOTED		E.M. NOTED	
STRUCTURE NOTATIONS OK'D		STRUCTURE NOTATIONS OK'D	
NO.		NO.	

TS SHT NO. 125



REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH LUMINAIRE
- 6 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON

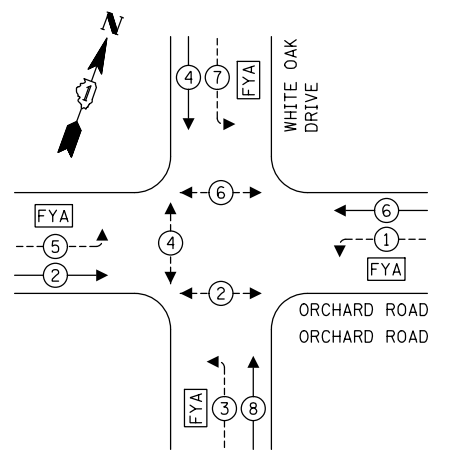
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 4 EACH VIDEO CAMERA

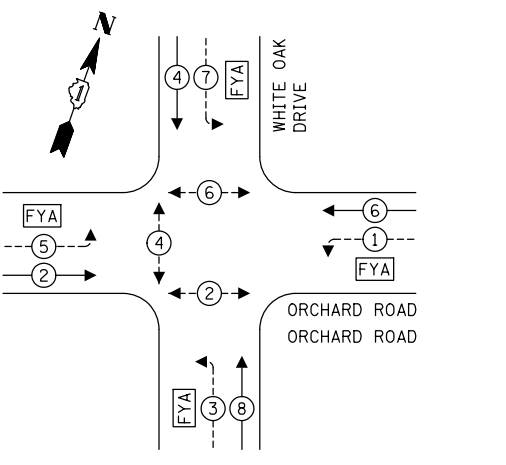
FILE NAME 028_Orchard-White Oak 01.REM	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL REMOVAL PLAN ORCHARD ROAD AND WHITE OAK DRIVE			F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 125	
PLLOT SCALE = 48'	CHECKED - GMZ	DATE - 12/8/2017	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.			
PLLOT DATE = 12/8/2017	DATE - 12/8/2017				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)								

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 PLAN: _____ NOTE BOOK: _____
 NO. _____ NO. _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5500
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PLAN: _____ NOTE BOOK: _____
 NO. _____ NO. _____
 STRUCTURE NOTATIONS: CWK0

EXISTING CONTROLLER SEQUENCE



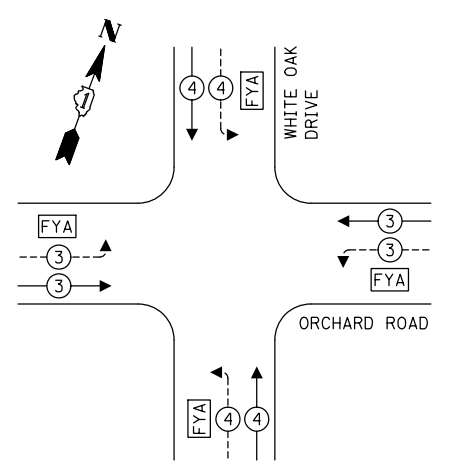
PROPOSED CONTROLLER SEQUENCE



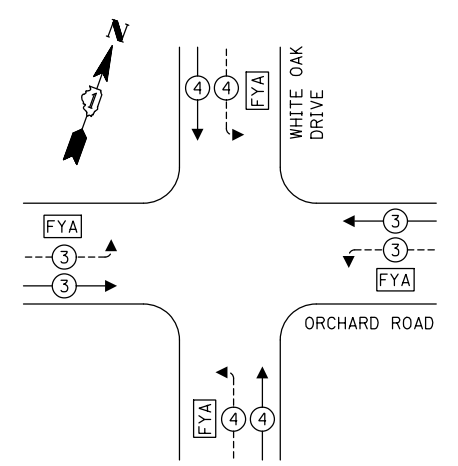
LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP
- FYA — FLASHING YELLOW ARROW

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



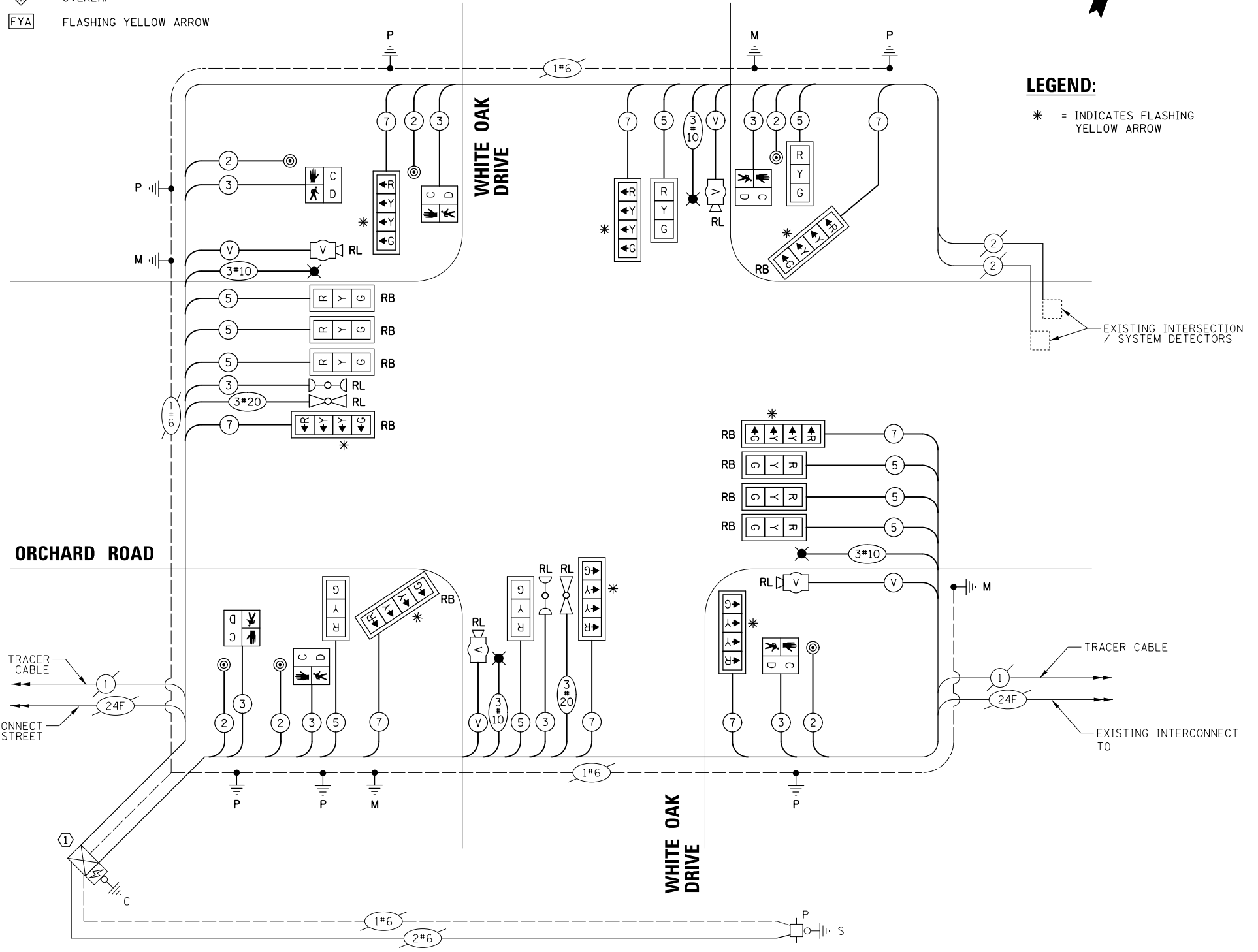
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1074.0

ENERGY COSTS TO:
 VILLAGE OF N. AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60505
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

CONSTRUCTION NOTE:

- ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.



LEGEND:

- * = INDICATES FLASHING YELLOW ARROW

CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 127

FILE NAME 028_Orchard-White Oak 03.CAB	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ORCHARD ROAD AND WHITE OAK DRIVE

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 127
CONTRACT NO.			HSIP-0089(171)	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	164
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	326
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,673
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	905
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,514
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,120
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,640
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	541
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43
DRILL EXISTING HANDHOLE	EACH	16
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE	EACH	10
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	6
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6,825
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	334
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
	BLM. NOTED		
	STRUCTURE NOTATIONS OK'D		
PLAN	SURVEYED	BY	DATE
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	ADD. FILE NAME		

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 Rosemont, Illinois 60018
 (617) 923-9500



TS SHT NO. 128

FILE NAME 028_Orchard-White Oak 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND WHITE OAK DRIVE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -			FAP 363	12-00424-00-SP	KANE	172	128	
		CHECKED - GMZ	REVISED -			CONTRACT NO.					
		DATE - 12/8/2017	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO

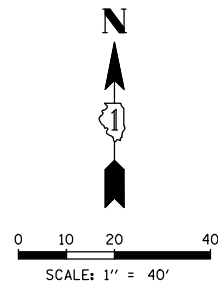
REMOVAL AND RELOCATION NOTES:

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.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH TRAFFIC SIGNAL POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 6 EACH 5-SECTION SIGNAL HEAD
- 9 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH LUMINAIRE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

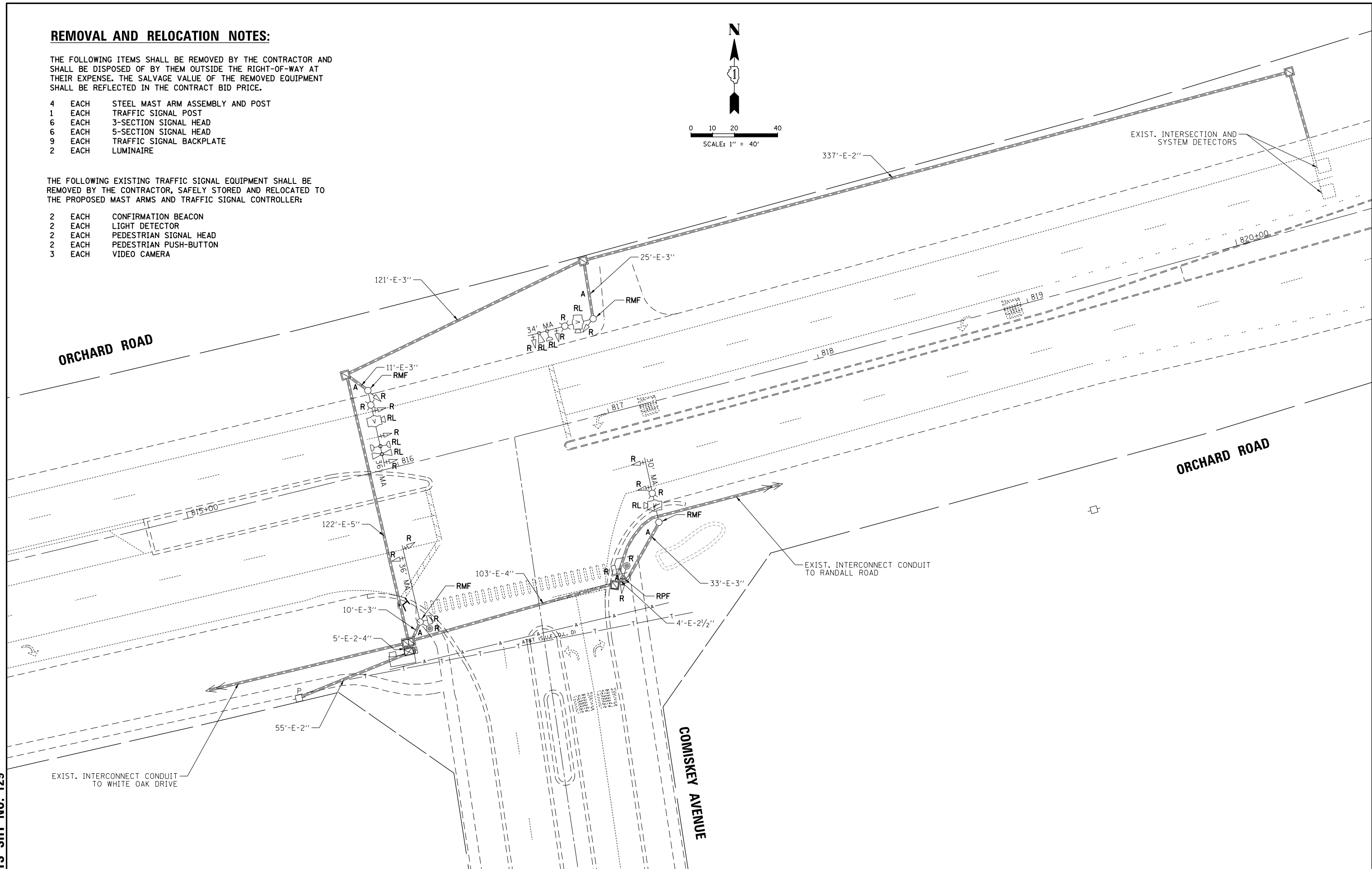
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 3 EACH VIDEO CAMERA



DATE	
BY	
SURVEYED	
ALIGNED	
RT. OF WAY CHECKED	
ADD. FILE NAME	
PLAN	
NOTE BOOK	
NO.	
DATE	
BY	
SURVEYED	
GRADES CHECKED	
BLM. NOTED	
STRUCTURE NOTATIONS OKWD	
PROFILE	
NOTE BOOK	
NO.	

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 Rosemont, Illinois 60018
 (630) 923-5500

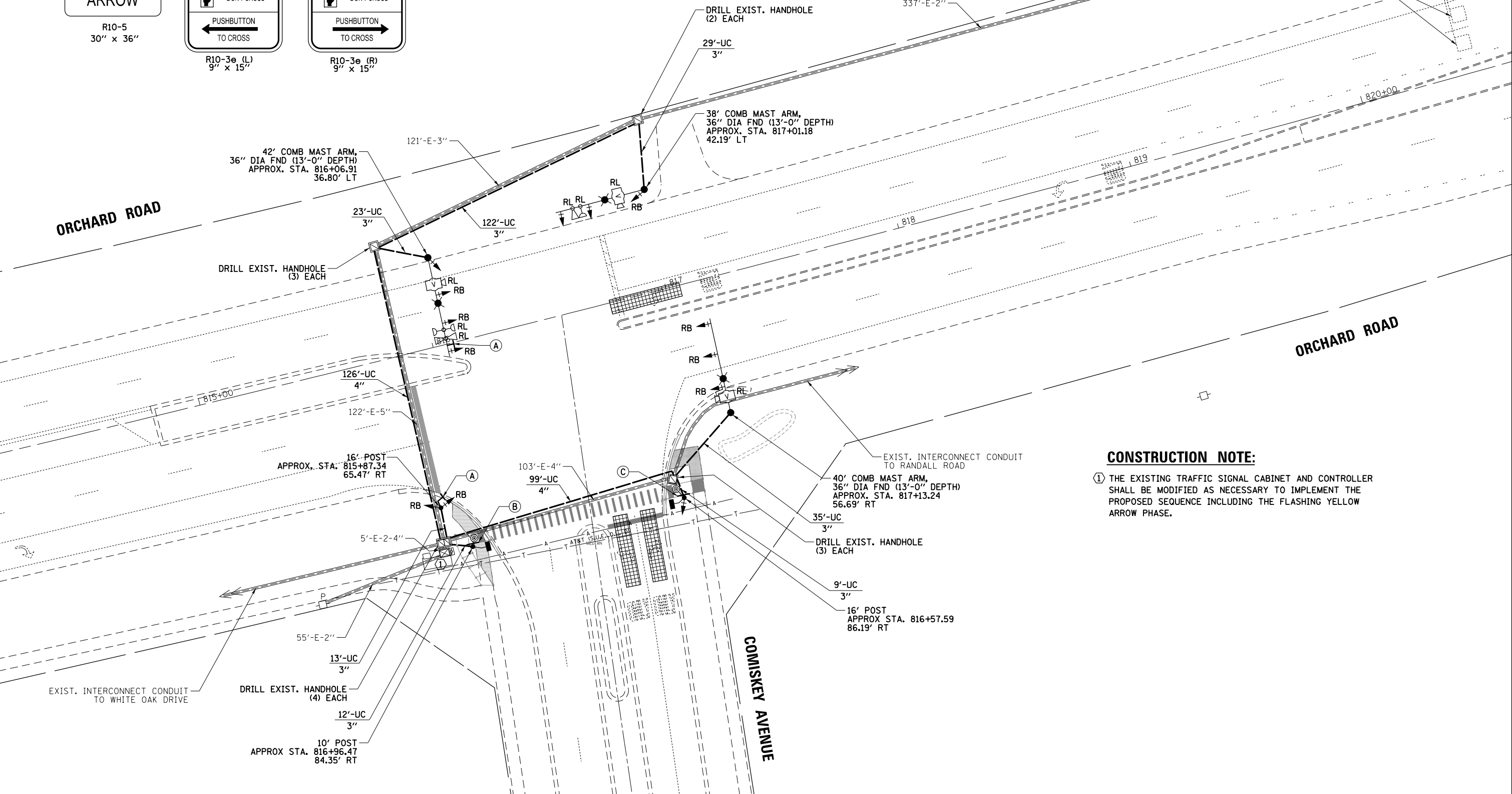
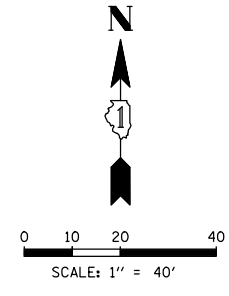
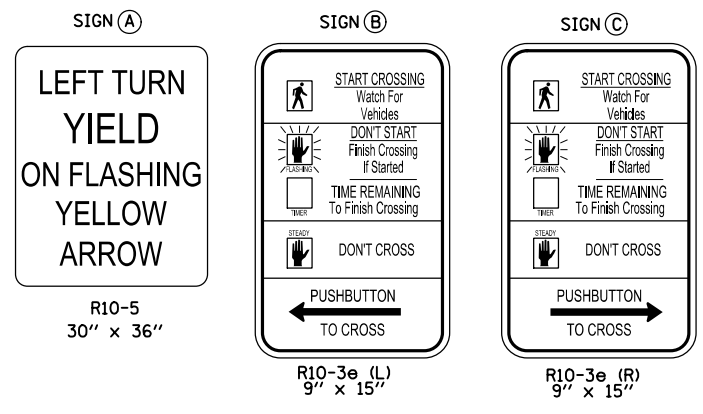
TS SHT NO. 129



FILE NAME 029_Orchard-Comiskey 01_REM	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL REMOVAL PLAN ORCHARD ROAD AND COMISKEY AVENUE				F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 129
	PLOT SCALE = 48'	DRAWN - FPB	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.			
	PLOT DATE = 12/8/2017	CHECKED - GMZ	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)								
		DATE - 12/8/2017	REVISED -										

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 PLAN: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK NO. _____
 SURVEYED: _____ ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (630) 923-5930
 PROFILE: _____
 GRADES CHECKED: _____
 ELEM. NOTED: _____
 STRUCTURE NOTATIONS: OKWD

TS SHT NO. 130



CONSTRUCTION NOTE:
 ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.

FILE NAME 029_Orchard-Comiskey 02.MXD	USER NAME = fbar130	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
 ORCHARD STREET AND COMISKEY AVENUE**

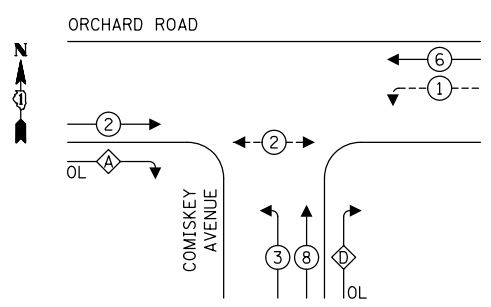
SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 130
CONTRACT NO.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)	

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 PLAN: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK: _____ NO. _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5500
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PLAN: _____ STRUCTURE NOTATIONS: _____
 NOTE BOOK: _____ NO. _____

TS SHT NO. 131

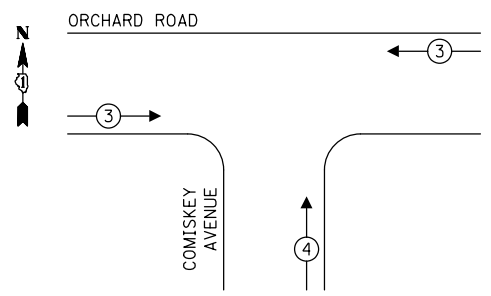
EXISTING CONTROLLER SEQUENCE



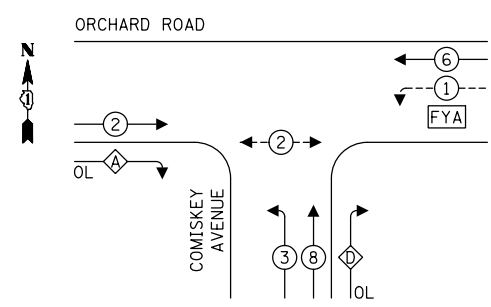
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



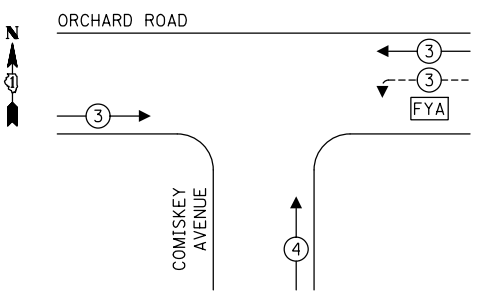
PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
D	= 8	+ 1+Y+R

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



- LEGEND:**
- ⊙ → PROTECTED PHASE
 - ⊙ → PROTECTED/PERMITTED PHASE
 - ⊙ → PEDESTRIAN PHASE
 - ⊙ OL OVERLAP
 - FYA FLASHING YELLOW ARROW



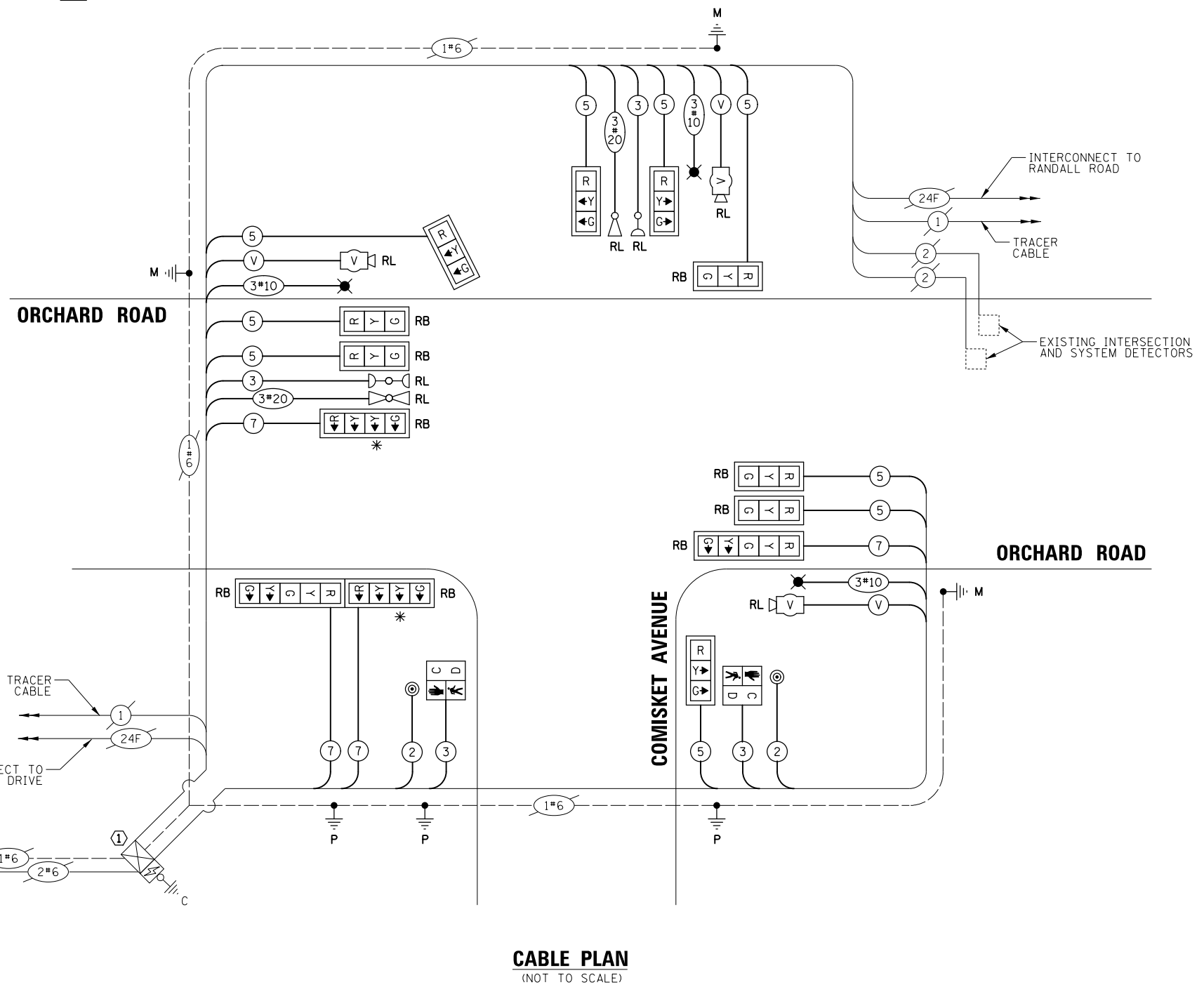
- LEGEND:**
- * = INDICATES FLASHING YELLOW ARROW

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	7	20	5	7.0
(GREEN)	7	12	45	37.8
SOLID ARROW (RED)	2	10	50	10.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	2	10	5	1.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	250	50	375.0
TOTAL =				816.8

ENERGY COSTS TO:
 VILLAGE OF N. AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60505
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

CONSTRUCTION NOTE:
 ① THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.



CABLE PLAN
(NOT TO SCALE)

FILE NAME 029_Orchard-Comiskey 03.CAB	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ORCHARD ROAD AND COMISKEY AVENUE

F.A.P. RTE. 363	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 131
FAP 336			CONTRACT NO.	
SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)		

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	15
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	220
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	225
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,439
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	194
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	798
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,265
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	539
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	489
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	7
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6,335
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	591
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	77.1

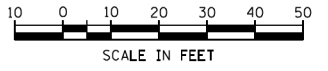
PROFILE SURVEYED _____ GRADES CHECKED _____ E.M. NOTED _____ STRUCTURE NOTATIONS OK/NO	PLAN NOTE BOOK _____ NO. _____	SURVEYED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ ADD. FILE NAME _____	BY _____ DATE _____
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CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 922-5500



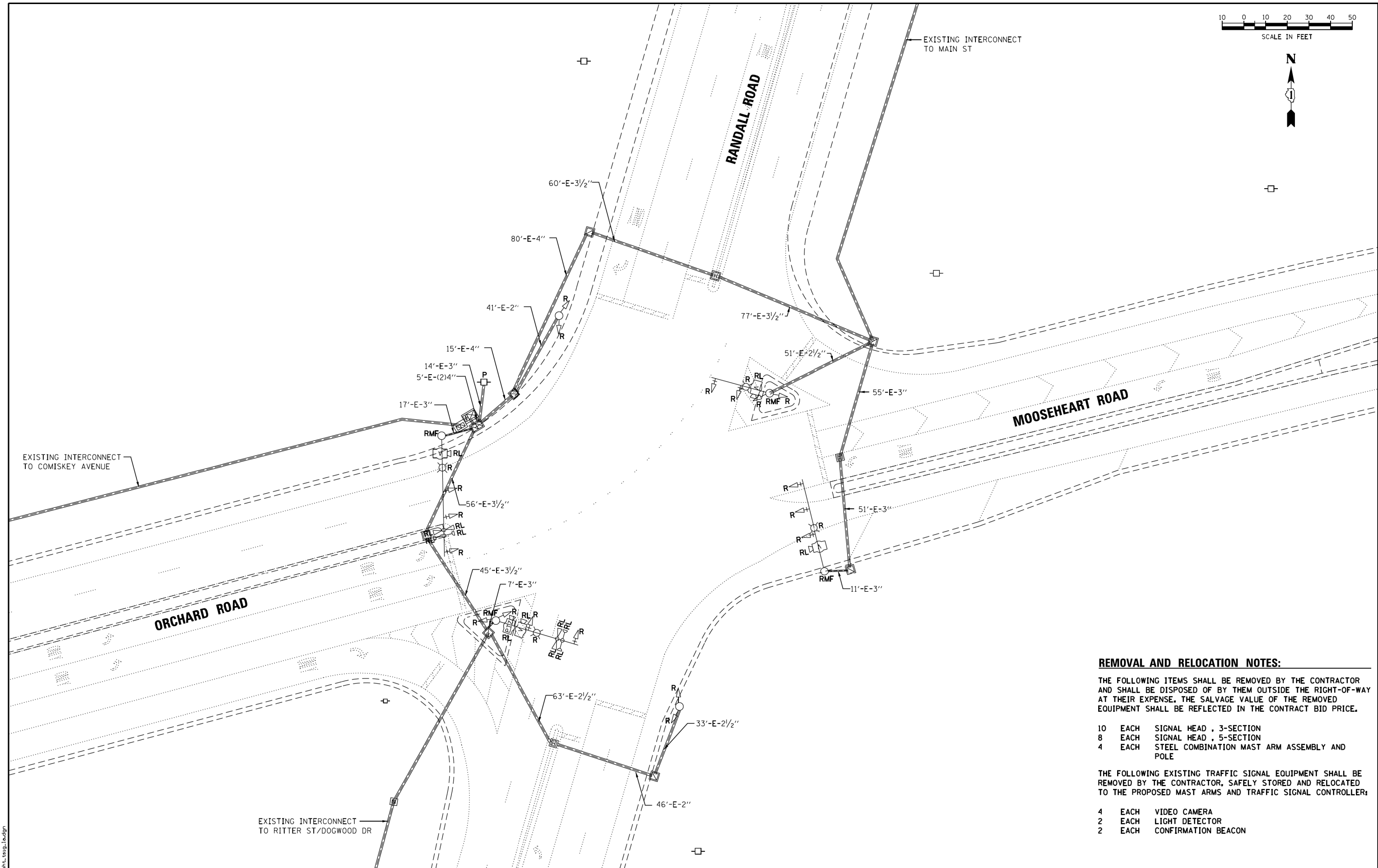
TS SHT NO. 132

FILE NAME 029_Orchard-Comiskey 03.CAB-2	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES ORCHARD ROAD AND COMISKEY AVENUE	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 132
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -					CONTRACT NO.		
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HSIP-0089(171)



DATE	
BY	
PLAN	
NO.	
NOTE BOOK	
CHECKED	
FILE NAME	

DATE	
BY	
PROFILE	
NO.	
NOTE BOOK	
CHECKED	
FILE NAME	



REMOVAL AND RELOCATION NOTES:

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.

- 10 EACH SIGNAL HEAD , 3-SECTION
- 8 EACH SIGNAL HEAD , 5-SECTION
- 4 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 4 EACH VIDEO CAMERA
- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON



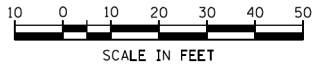
USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 48,000/1" = 1/4"	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL REMOVAL PLAN RANDALL ROAD AND ORCHARD ROAD			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

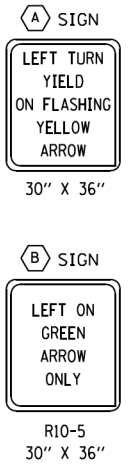
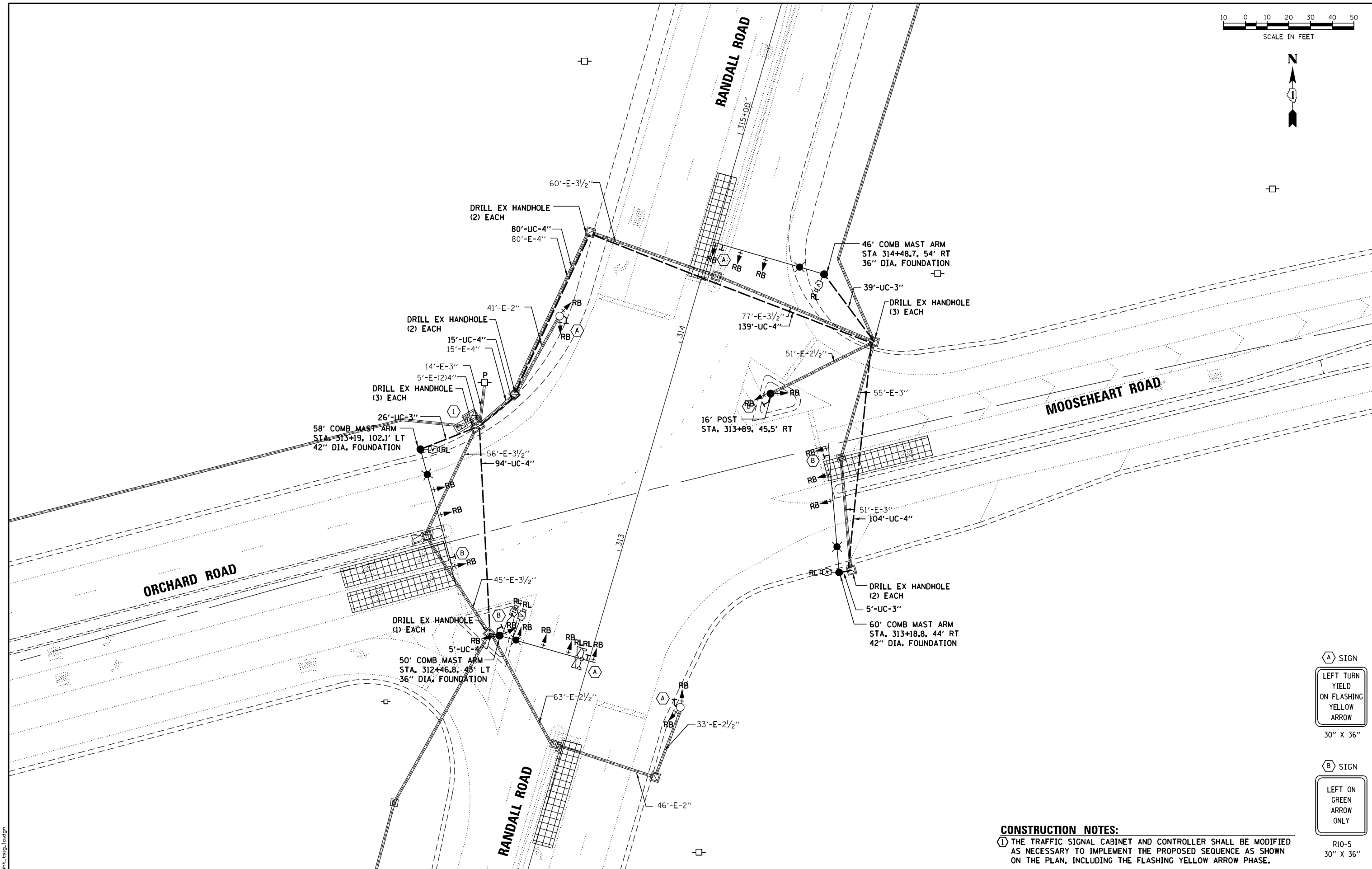
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	133
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_sht.tsig_1a.dgn



DATE		
BY		
PLAN	SUBMITTED	
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK FILED	
	NO.	

DATE		
BY		
PROFILE	SUBMITTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	



CONSTRUCTION NOTES:
 ① THE TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE AS SHOWN ON THE PLAN, INCLUDING THE FLASHING YELLOW ARROW PHASE.



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED
PLOT SCALE = 48,000/1" = 1/4"		
PLOT DATE = 12/7/2017		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODIFICATION PLAN RANDALL ROAD AND ORCHARD ROAD			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

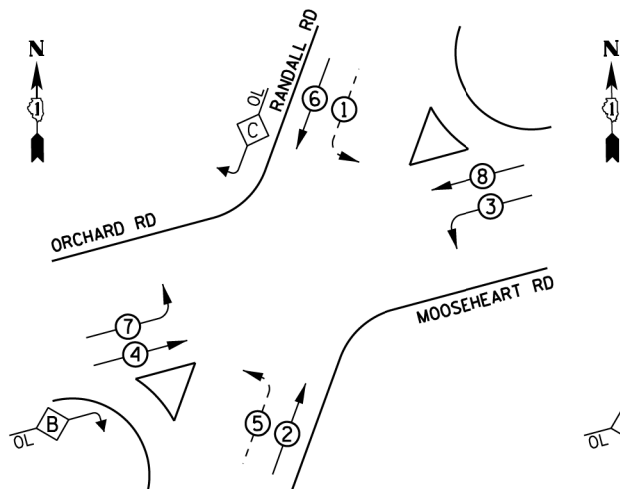
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	134
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_sht.tsig_1c.dgn

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PLAN	
NO.	

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PLAN	
NO.	

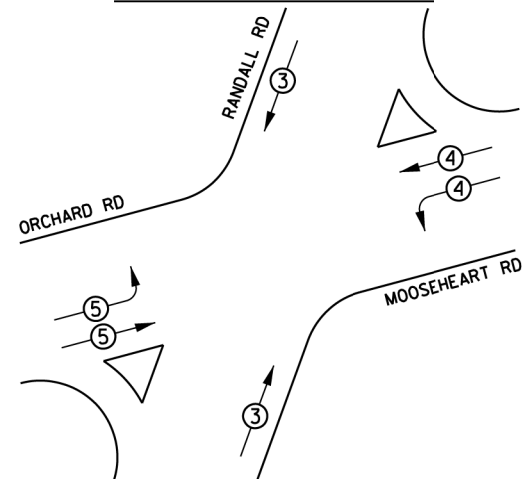
EXISTING CONTROLLER SEQUENCE



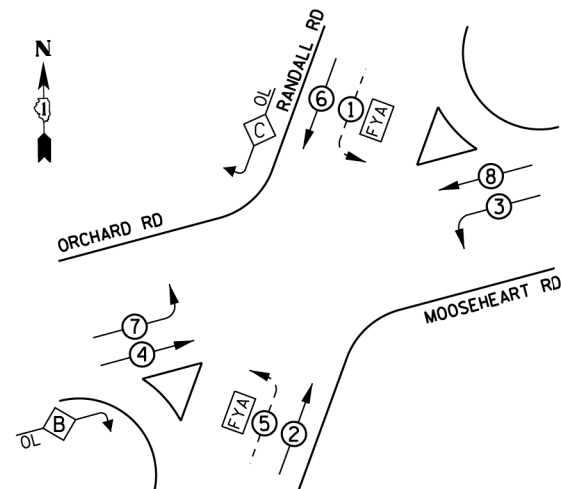
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B =	4	5
C =	6	7

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



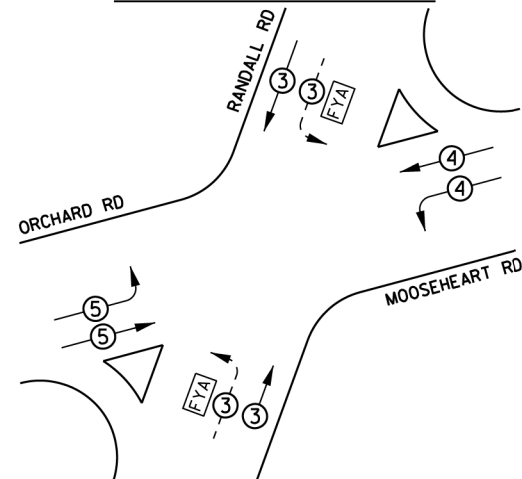
PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

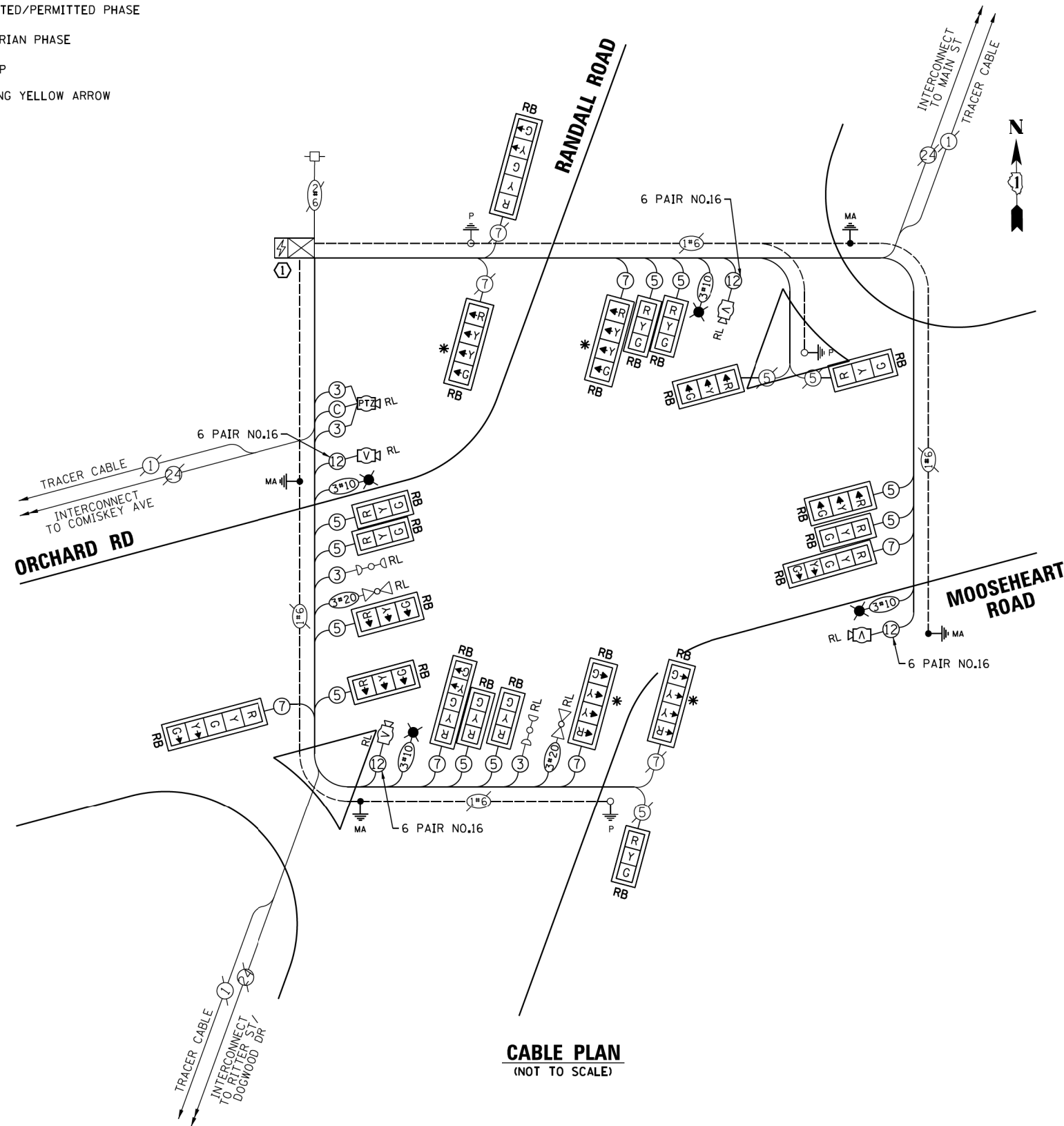
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B =	4	5
C =	6	7

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP
- ⊙ FYA FLASHING YELLOW ARROW



CABLE PLAN
(NOT TO SCALE)

CONSTRUCTION NOTES:
 ① THE TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE AS SHOWN ON THE PLAN, INCLUDING THE FLASHING YELLOW ARROW PHASE.

LEGEND:
 * = INDICATES FLASHING YELLOW ARROW
 ⊙ = OUTDOOR NETWORK CABLE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		TOTAL WATTAGE
		LED	% OPERATION	
SIGNAL (RED)	13	11	0.50	71.5
(YELLOW)	13	20	0.05	13
(GREEN)	13	12	0.45	70.2
SOLID ARROW (RED)	8	10	0.50	40
(GREEN & YELLOW)	16	20	0.10	32
PED. SIGNAL	0	20	1.00	0
CONTROLLER	1	100	1.00	100
UPS	1	25	1.00	25
VIDEO SYSTEM	4	150	1.00	600
LUMINAIRE	4	250	0.50	500
FLASHER	4	10	0.50	20
FLASHING ARROW	11	12	0.05	6.6
TOTAL =				1478.3

ENERGY COSTS TO:
 VILLAGE OF NORTH AURORA
 25 EAST STATE STREET
 NORTH AURORA, ILLINOIS 60542
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: 866-639-3532
 COMPANY: COM ED
 ACCOUNT NUMBER:

USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 RANDALL ROAD AND ORCHARD ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	135
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

FILE NAME: KH_sht.ctb; Id: dgm



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	1.0
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	65
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	432
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	3,161
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	657
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,453
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,974
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	754
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	-
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	21
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10,608
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	266
RELOCATE EXISTING PTZ CAMERA	EACH	1.0
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

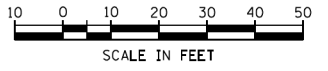
PROFILE	PLAN	BY	DATE
SURVEYED _____	SURVEYED _____		
GRADES CHECKED _____	ALIGNMENT CHECKED _____		
BLM. NOTED _____	RT. OF WAY CHECKED _____		
STRUCTURE NOTATIONS OK/NO	ADD. FILE NAME _____		
NOTE BOOK NO. _____			

CHRISTOPHER B. BURKE
ENGINEERING LTD.
3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(617) 923-5938



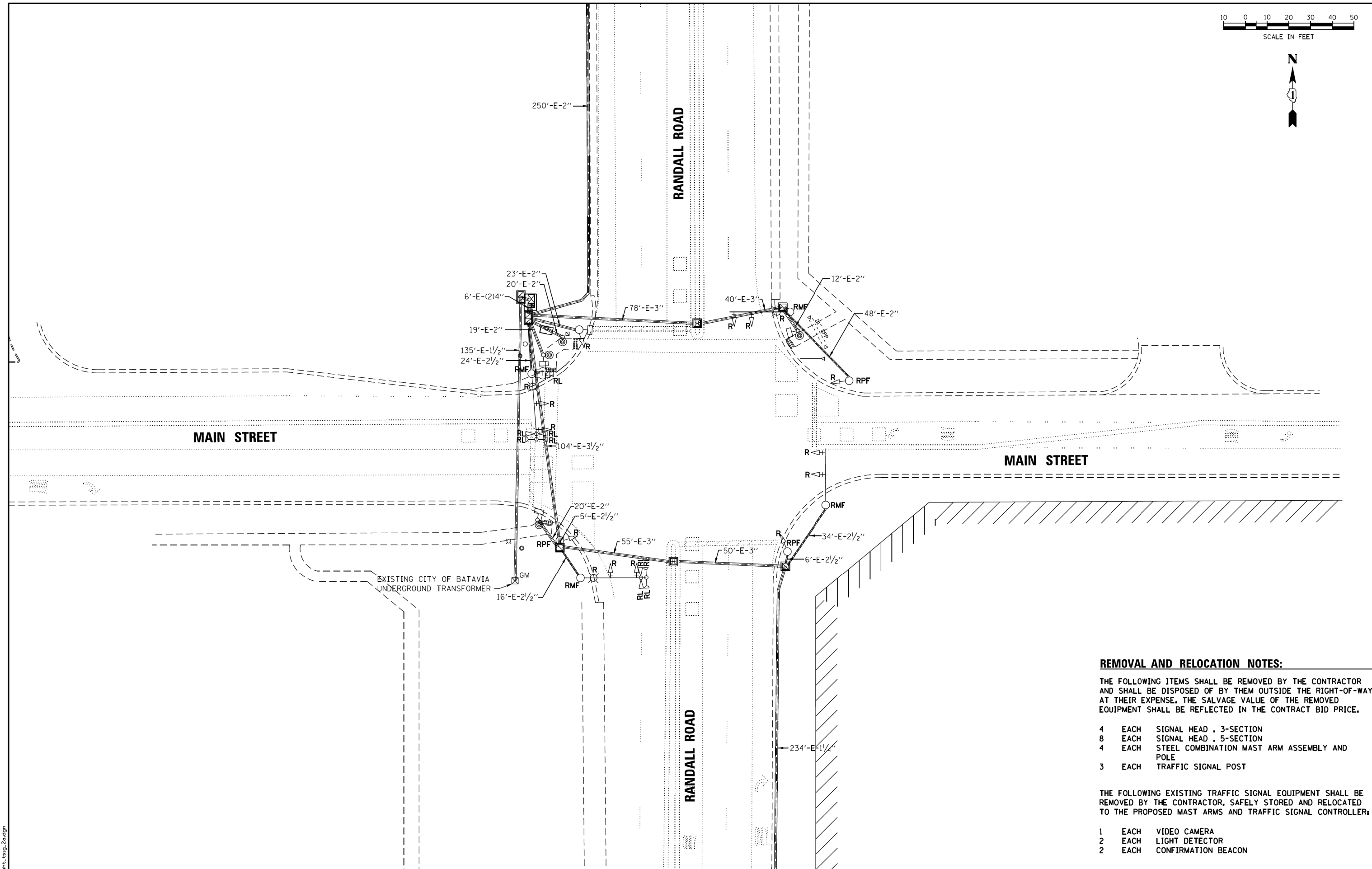
TS SHT NO. 136

FILE NAME ESL_Sheet-04_QTY_Randall-Orchard	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES RANDALL ROAD AND ORCHARD ROAD / MOOSEHEART ROAD	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 136		
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -			CONTRACT NO.						
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)



DATE	
BY	
PLAN	
NO.	
NOTE BOOK	
CHECKED	
FILE NAME	

DATE	
BY	
PROFILE	
NO.	
NOTE BOOK	
CHECKED	
FILE NAME	



- REMOVAL AND RELOCATION NOTES:**
- 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.
- 4 EACH SIGNAL HEAD , 3-SECTION
 - 8 EACH SIGNAL HEAD , 5-SECTION
 - 4 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
 - 3 EACH TRAFFIC SIGNAL POST
- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:
- 1 EACH VIDEO CAMERA
 - 2 EACH LIGHT DETECTOR
 - 2 EACH CONFIRMATION BEACON



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 48,0001' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL REMOVAL PLAN RANDALL ROAD AND MAIN STREET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-5P	KANE	172	137
CONTRACT NO.				-
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_111.ctb; tsig_2a.dgn

PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

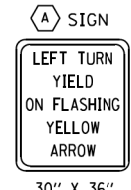
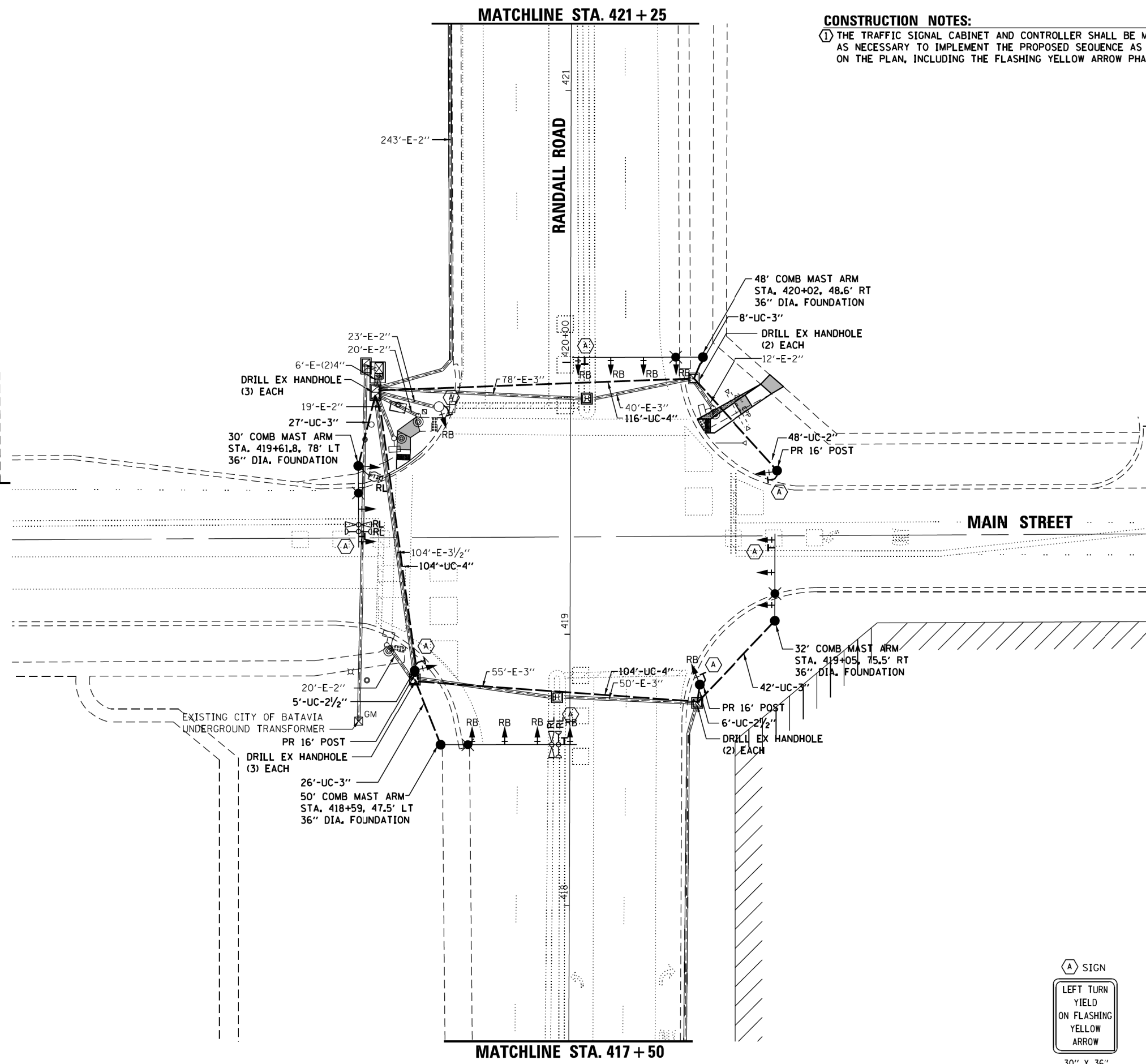
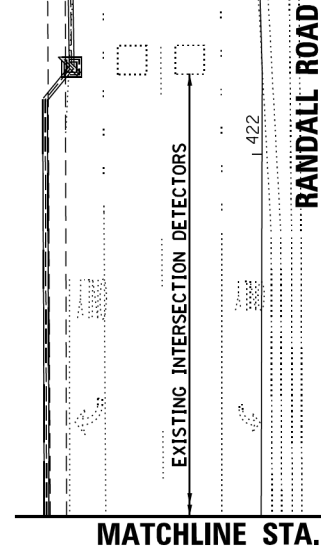
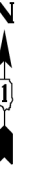
PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATION OK'D	
	NOTE BOOK NO.	
	CADD FILE NAME	

FILE NAME: KH_111.ctb; 2c.dgn

MATCHLINE STA. 421 + 25

CONSTRUCTION NOTES:

① THE TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE AS SHOWN ON THE PLAN, INCLUDING THE FLASHING YELLOW ARROW PHASE.



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 48,000/1" = 1/4"	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

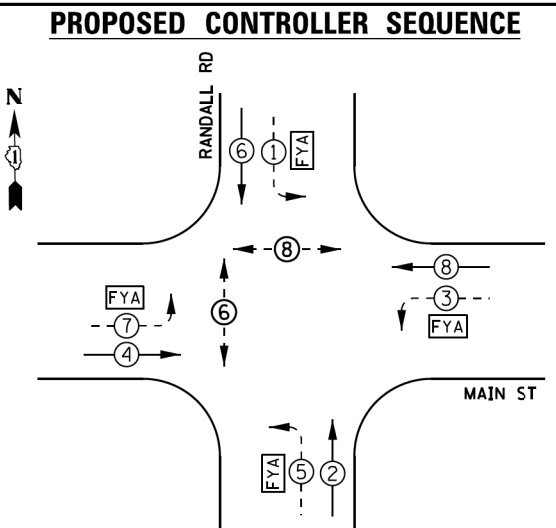
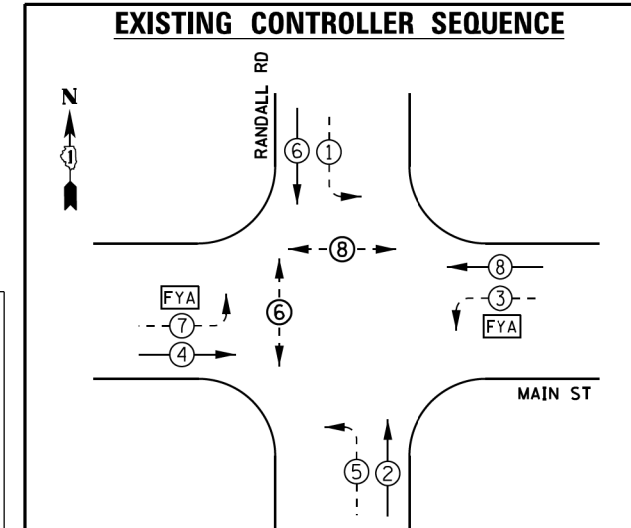
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN RANDALL ROAD AND MAIN STREET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

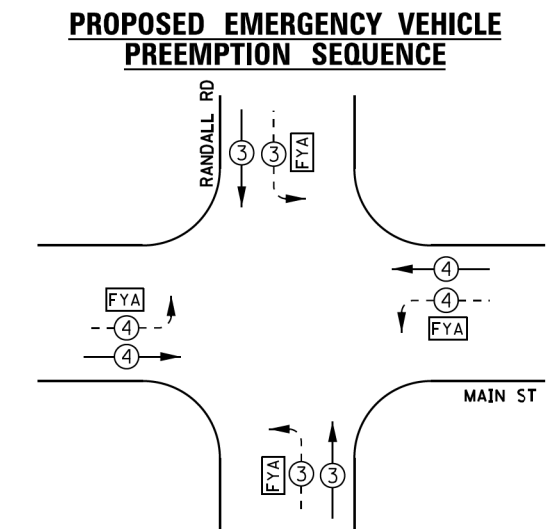
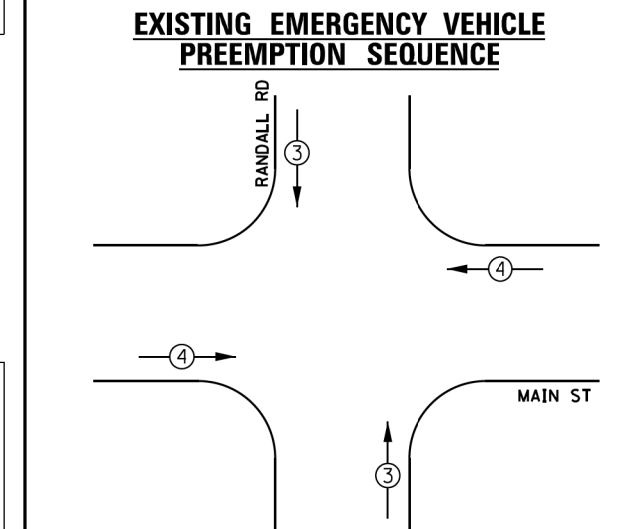
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	138
CONTRACT NO.				-
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SUBMITTED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK NO.	
CARD FILE NAME	

DATE	
BY	
SUBMITTED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK NO.	
STRUCTURE NOTATION DRP/D	



- #### LEGEND:
- ← ⊙ → PROTECTED PHASE
 - ← ⊙ ⊖ → PROTECTED/PERMITTED PHASE
 - ← ⊙ ⊕ → PEDESTRIAN PHASE
 - ← ⊙ ⊖ ⊕ → OVERLAP
 - ⊙ FYA FLASHING YELLOW ARROW

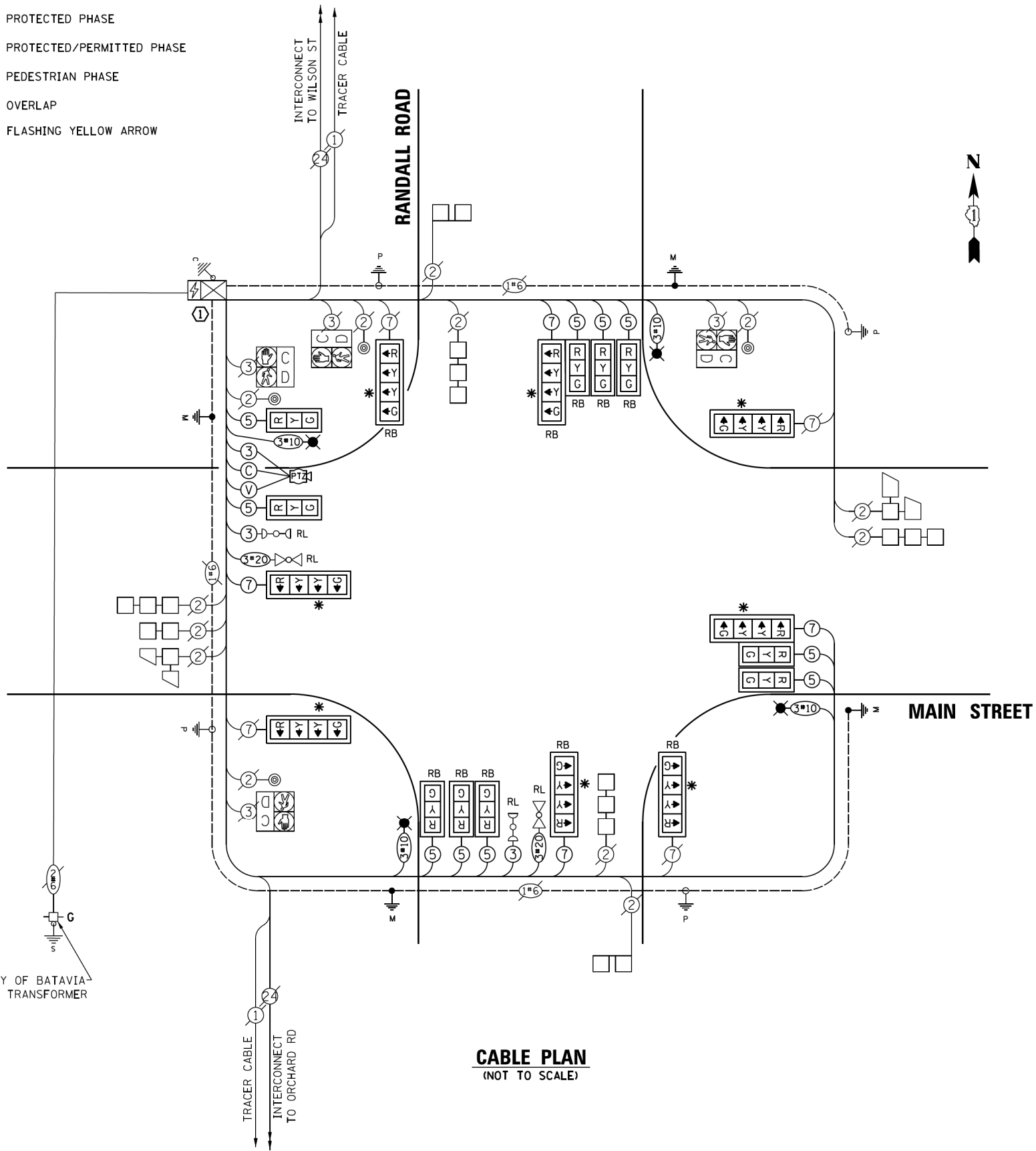


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		TOTAL WATTAGE
		LED	% OPERATION	
SIGNAL (RED)	10	11	0.50	55
(YELLOW)	10	20	0.05	10
(GREEN)	10	12	0.45	54
SOLID ARROW (RED)	8	10	0.50	40
(GREEN & YELLOW)	16	20	0.10	32
PED. SIGNAL	8	20	1.00	160
CONTROLLER	1	100	1.00	100
UPS	1	25	1.00	25
VIDEO SYSTEM	-	150	1.00	0
LUMINAIRE	4	250	0.50	500
FLASHER	4	10	0.50	20
FLASHING ARROW	8	12	0.05	4.8
TOTAL =				1000.8

ENERGY COSTS TO:
CITY OF BATAVIA
 200 N RADDANT ROAD
 BATAVIA, IL 60510
 ENERGY SUPPLY: CONTACT: ELECTRIC UTILITY DIVISION
 PHONE: 630-454-2350
 COMPANY: CITY OF BATAVIA
 ACCOUNT NUMBER: _____

 ESI CONSULTANTS, LTD. <small>275 N. HALL STREET, SUITE 100 BATAVIA, IL 60510</small> <small>Excellence, Service, Integrity</small>	USER NAME = bhenrichs	DESIGNED	REVISED
		DRAWN	REVISED
	PLOT SCALE = 2,000' / 1" =	CHECKED	REVISED
	PLOT DATE = 12/7/2017	DATE	REVISED



EXISTING CITY OF BATAVIA UNDERGROUND TRANSFORMER

- #### CONSTRUCTION NOTES:
- THE TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE AS SHOWN ON THE PLAN, INCLUDING THE FLASHING YELLOW ARROW PHASE.

- #### LEGEND:
- * = INDICATES FLASHING YELLOW ARROW
 - ⊙ = OUTDOOR NETWORK CABLE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 RANDALL ROAD AND MAIN STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	139
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_111.ctb; tsig_2d.dwg

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	151
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	324
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,175
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	399
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,841
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,467
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	589
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6,185
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	304
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	96
ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	96
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

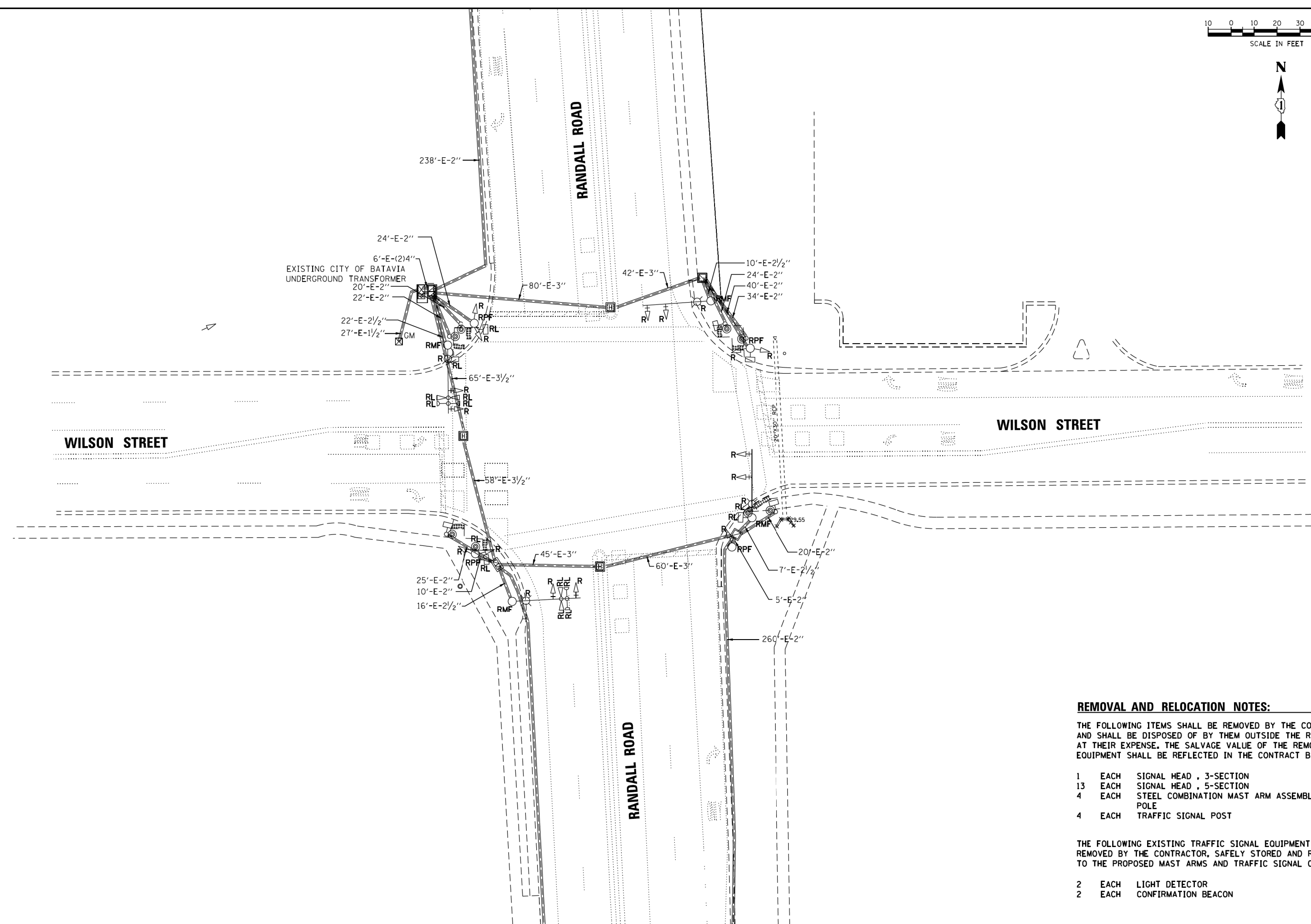
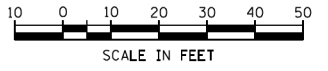
PROFILE SURVEYED _____ GRADES CHECKED _____ E.M. NOTED _____ STRUCTURE NOTATIONS OK/NO _____ NOTE BOOK NO. _____	PLAN SURVEYED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ PADD FILE NAME _____ NOTE BOOK NO. _____
BY _____ DATE _____	BY _____ DATE _____

CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5500



TS SHT NO. 140

FILE NAME ESL_Sheet-08_QTY_Randall-Main	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES RANDALL ROAD AND MAIN STREET	F.A.P. RTE. FAP 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 140
		DRAWN - FPB	REVISED -							
		CHECKED - GMZ	REVISED -							
		DATE - 12/8/2017	REVISED -							
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.
										ILLINOIS FED. AID PROJECT HSIP-0089(171)



PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	FILE NAME	
	NO.	

PROFILE	SUBMITTED	DATE
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	

REMOVAL AND RELOCATION NOTES:

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.

- 1 EACH SIGNAL HEAD , 3-SECTION
- 13 EACH SIGNAL HEAD , 5-SECTION
- 4 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 48,0001' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL REMOVAL PLAN
RANDALL ROAD AND WILSON STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-5P	KANE	172	141
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_141.ctb; 3-6-17

PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	CAD FILE NAME	

PROFILE	SUBMITTED	DATE
	GRADES CHECKED	
	STRUCTURE NOTATION OK'D	
	NOTE BOOK NO.	
	CAD FILE NAME	

FILE NAME: KH_111.ctb; 3-20-17

ESI CONSULTANTS, LTD.
 3718 N. HOLLAND STREET, SUITE 100
 CHICAGO, ILLINOIS 60641
 TEL: 773.399.8000 FAX: 773.399.8001
 www.esiconsultants.com

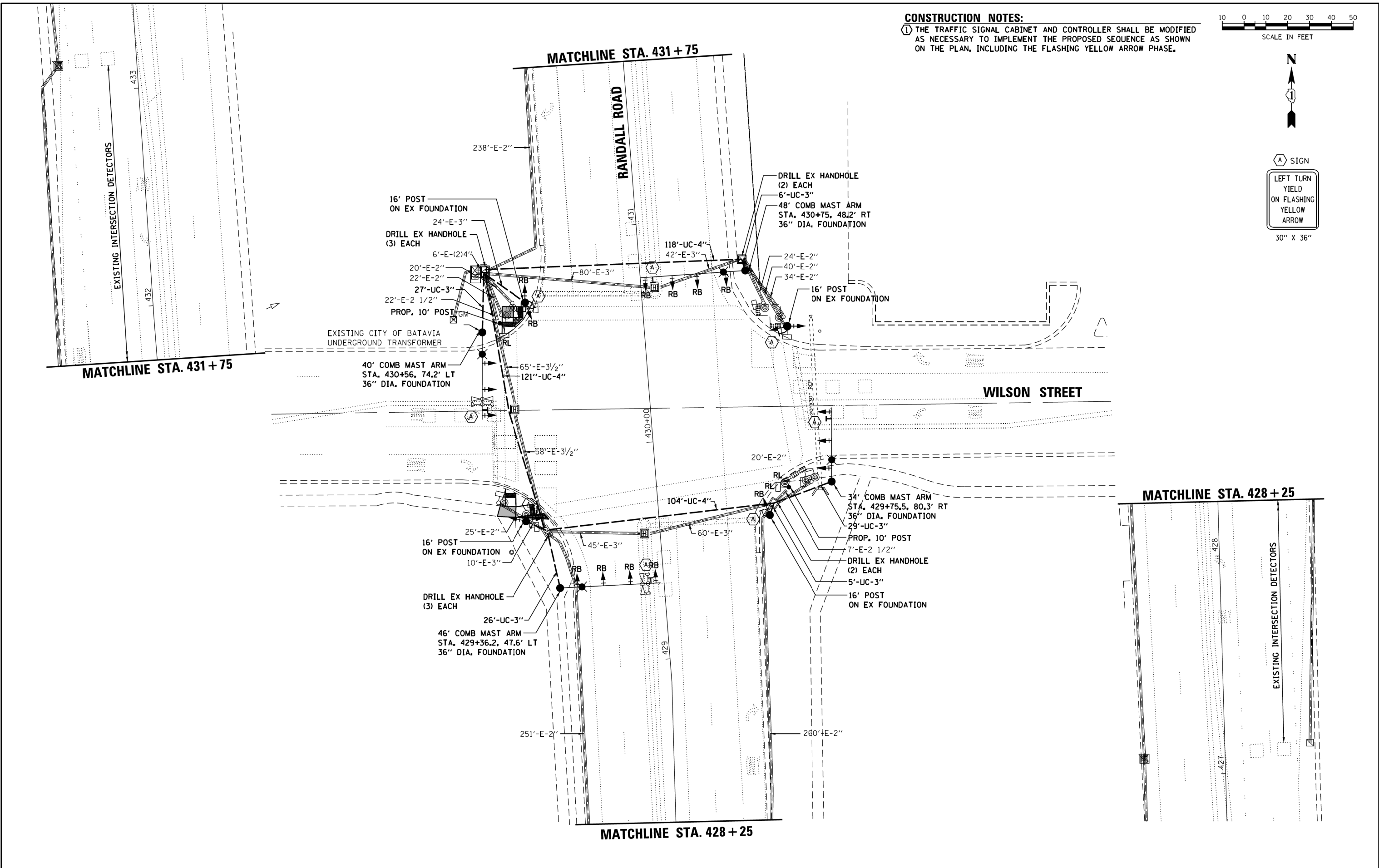
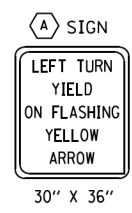
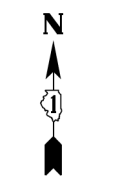
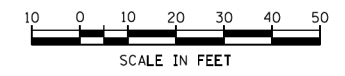
USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 48,000/1" = 1/4"	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN			
RANDALL ROAD AND WILSON STREET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	142
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

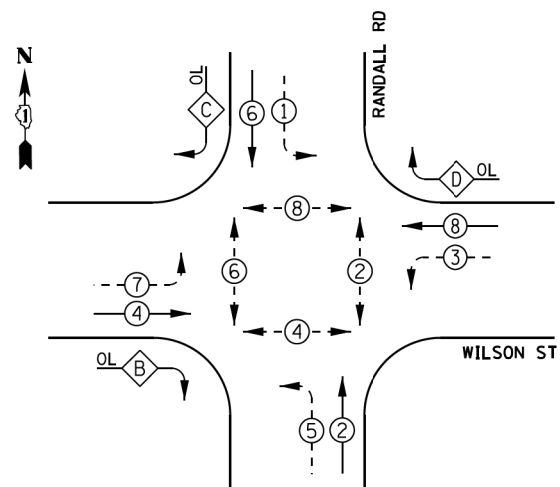
CONSTRUCTION NOTES:
 ① THE TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE AS SHOWN ON THE PLAN, INCLUDING THE FLASHING YELLOW ARROW.



DATE	
BY	
SUBMITTED	
PLANNED	
ALIGNED	
CHECKED	
FILED	
NO.	

DATE	
BY	
SUBMITTED	
PLANNED	
CHECKED	
FILED	
NO.	

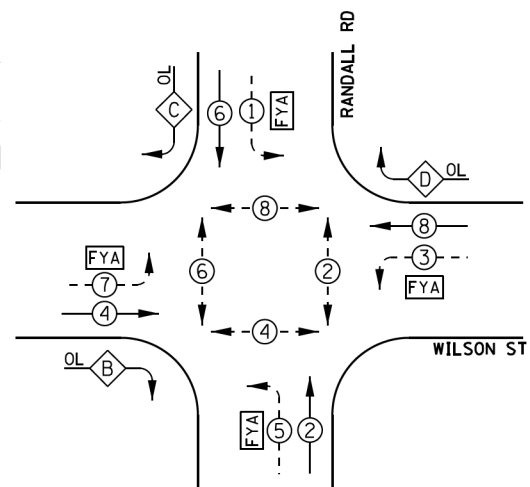
EXISTING CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5
C	6	7
D	8	1

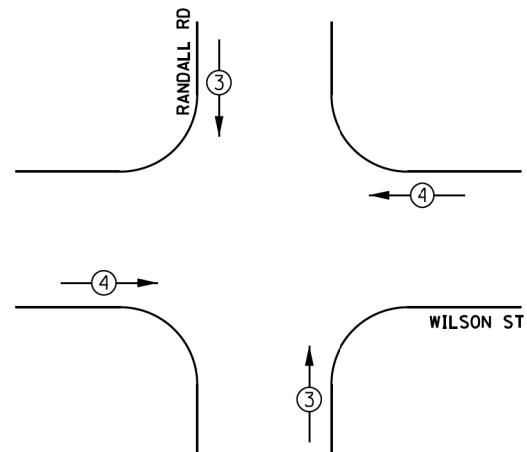
PROPOSED CONTROLLER SEQUENCE



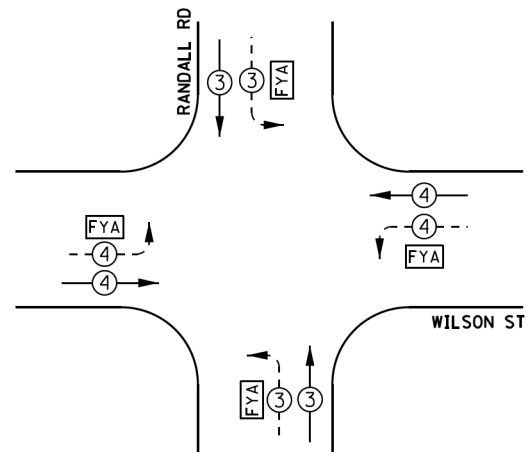
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5
C	6	7
D	8	1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



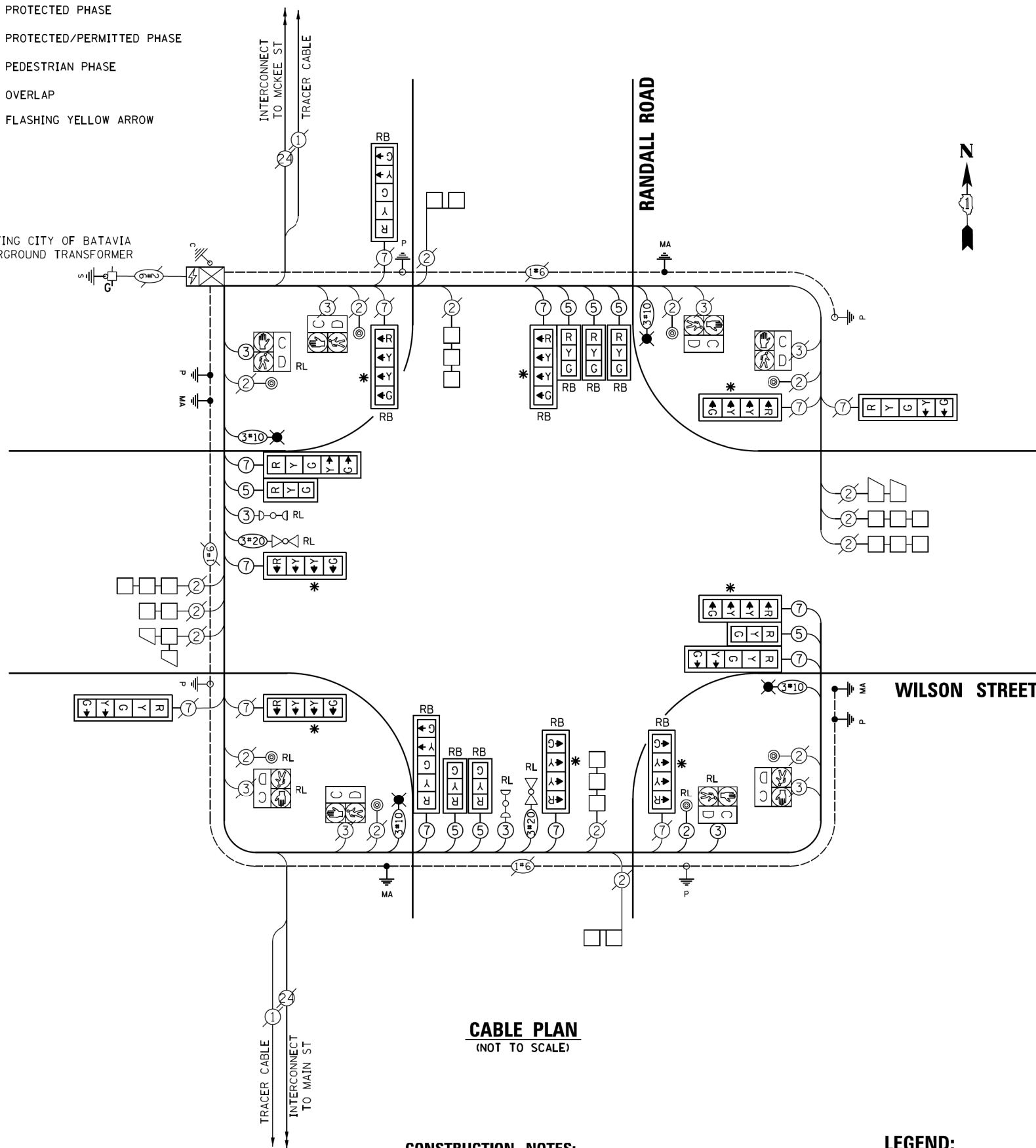
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ⊙ ← PROTECTED PHASE
- ⊙ ← - PROTECTED/PERMITTED PHASE
- ⊙ ← → PEDESTRIAN PHASE
- ⊙ ← OL OVERLAP
- FYA FLASHING YELLOW ARROW

EXISTING CITY OF BATAVIA UNDERGROUND TRANSFORMER



CABLE PLAN
(NOT TO SCALE)

CONSTRUCTION NOTES:

- ① THE TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE AS SHOWN ON THE PLAN, INCLUDING THE FLASHING YELLOW ARROW PHASE.

LEGEND:

- * = INDICATES FLASHING YELLOW ARROW
- ⊙ = OUTDOOR NETWORK CABLE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		TOTAL WATTAGE
		LED	% OPERATION	
SIGNAL (RED)	13	11	0.50	71.5
(YELLOW)	13	20	0.05	13
(GREEN)	13	12	0.45	70.2
SOLID ARROW (RED)	8	10	0.50	40
(GREEN & YELLOW)	16	20	0.10	32
PED. SIGNAL	8	20	1.00	160
CONTROLLER	1	100	1.00	100
UPS	1	25	1.00	25
VIDEO SYSTEM	-	150	1.00	0
LUMINAIRE	4	250	0.50	500
FLASHER	4	10	0.50	20
FLASHING ARROW	11	12	0.05	6.6
TOTAL =				1038.3

ENERGY COSTS TO:

CITY OF BATAVIA
200 N RADDANT ROAD
BATAVIA, IL 60510

ENERGY SUPPLY: CONTACT: ELECTRIC UTILITY DIVISION
PHONE: 630-454-2350
COMPANY: CITY OF BATAVIA
ACCOUNT NUMBER:



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 2,0000' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
RANDALL ROAD AND WILSON STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	143
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_111.ctb; 3d.dgn

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	88
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	343
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,565
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	344
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	801
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,801
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,079
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	523
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
TRAFFIC SIGNAL BACKPLATE	EACH	9
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,941
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	352
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

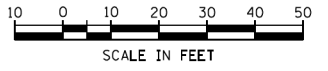
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NOTE BOOK	GRADES CHECKED	BY
NO.	BLM. NOTED	
	STRUCTURE NOTATIONS	
	CHKD	
PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
NO.	RT. OF WAY CHECKED	
	ADJ. FILE NAME	

CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5938



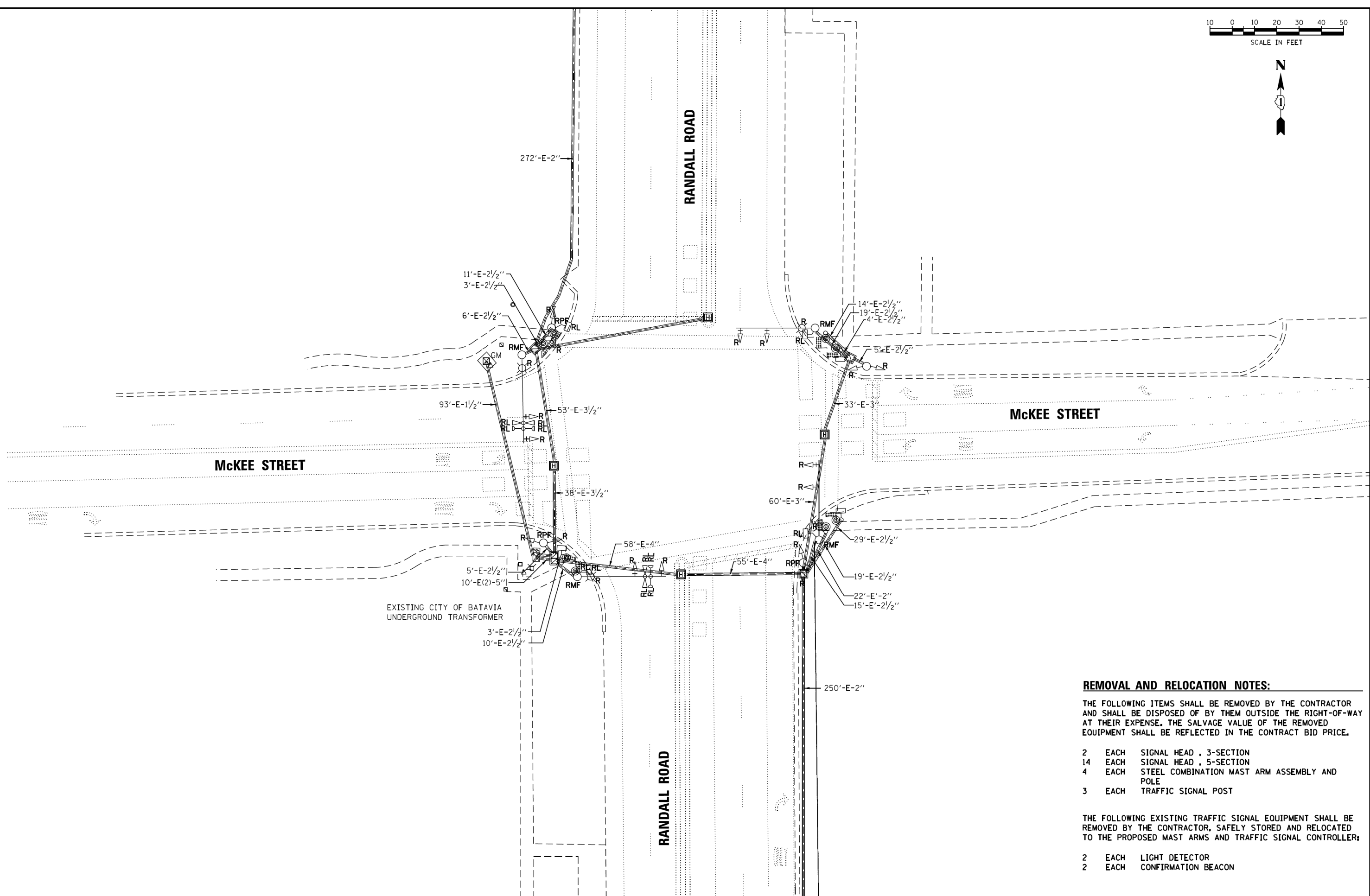
TS SHT NO. 144

FILE NAME ESL_Sheet-12.0TY_Randall-Wilson	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES RANDALL ROAD AND WILSON STREET	F.A.P. RTE. 363	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 144
	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO.	
	PLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	HSIP-0089(171)	



DATE	
BY	
PLAN	
NO.	
NOTE BOOK	
CHECKED	
FILE NAME	

DATE	
BY	
PROFILE	
NO.	
NOTE BOOK	
CHECKED	
FILE NAME	



- REMOVAL AND RELOCATION NOTES:**
- 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.
- 2 EACH SIGNAL HEAD , 3-SECTION
 - 14 EACH SIGNAL HEAD , 5-SECTION
 - 4 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
 - 3 EACH TRAFFIC SIGNAL POST
- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:
- 2 EACH LIGHT DETECTOR
 - 2 EACH CONFIRMATION BEACON

FILE NAME: KH_111.ctb; 4s.dgn



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 48,0001" / 1"	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

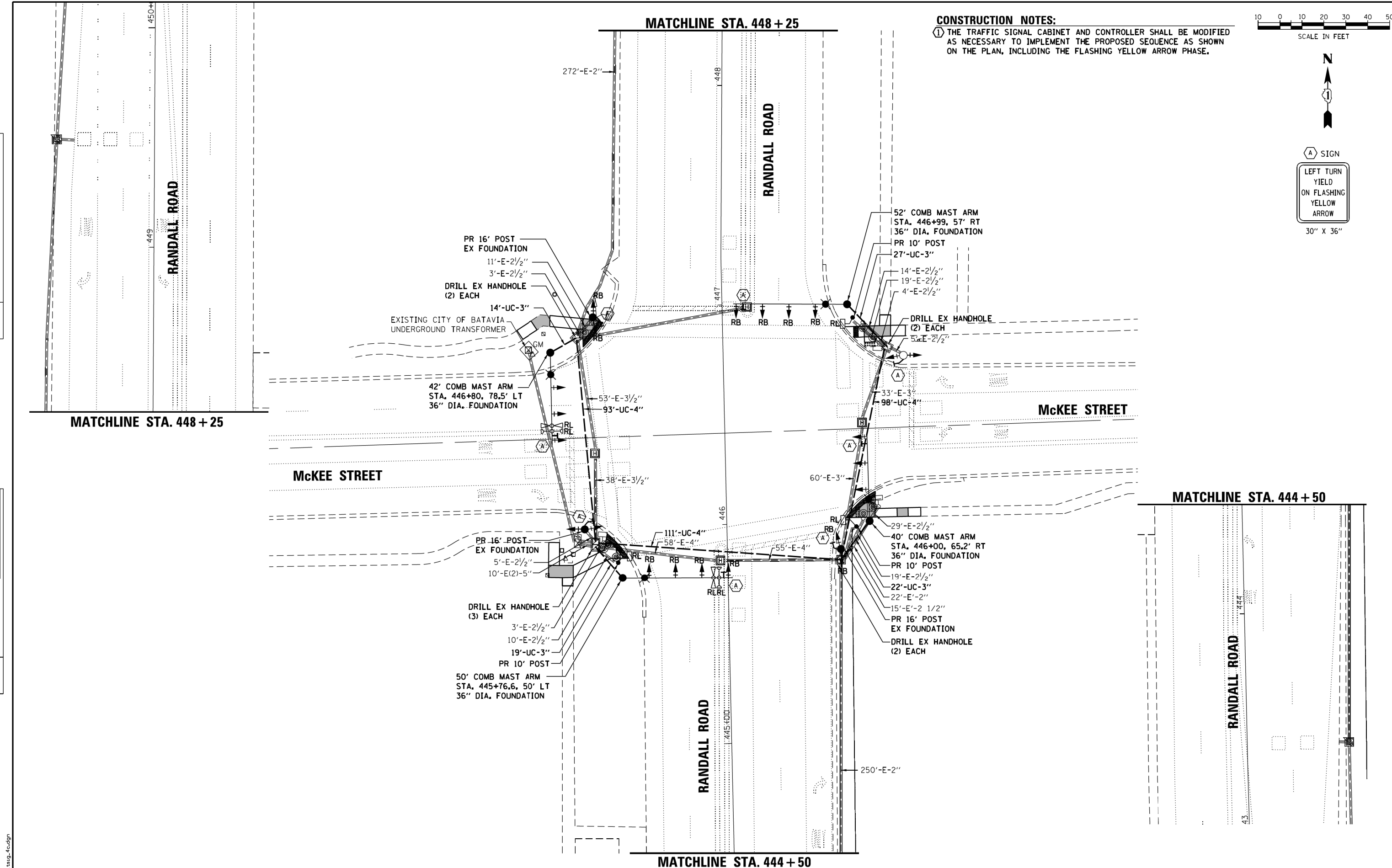
**TRAFFIC SIGNAL REMOVAL PLAN
RANDALL ROAD AND MCKEE STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	145
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

DATE	
BY	
SUBMITTED	
PLANNED	
ALIGNED	
CHECKED	
FILE NAME	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
SUBMITTED	
PLANNED	
GRADES	
CHECKED	
STRUCTURE	
NOTATION	
PROFILE	
NOTE BOOK	
NO.	



CONSTRUCTION NOTES:
 ① THE TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE AS SHOWN ON THE PLAN, INCLUDING THE FLASHING YELLOW ARROW.



ESI CONSULTANTS, LTD.
 3718 N. HOLLAND STREET, SUITE 100
 NORTHBROOK, IL 60062
 TEL: 847.440.0000 FAX: 847.440.0001
 WWW.ESI-CONSULTANTS.COM

USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED
PLOT SCALE = 48,000/1" = 1/4"		
PLOT DATE = 12/7/2017		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN			
RANDALL ROAD AND MCKEE STREET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

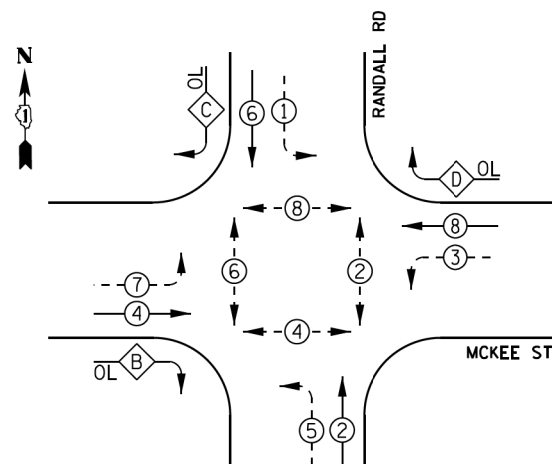
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-SP	KANE	172	146
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_sht.tsig_4e.dgn

DATE	
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SUBMITTED	
PLANNED	
ALIGNED	
CHECKED	
FILED	
NO.	

DATE	
BY	
SUBMITTED	
PLANNED	
CHECKED	
FILED	
NO.	

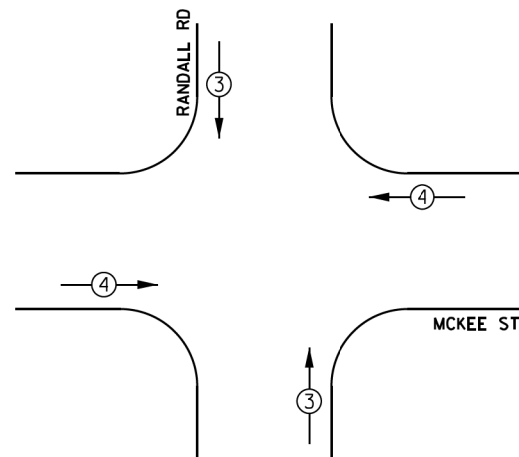
EXISTING CONTROLLER SEQUENCE



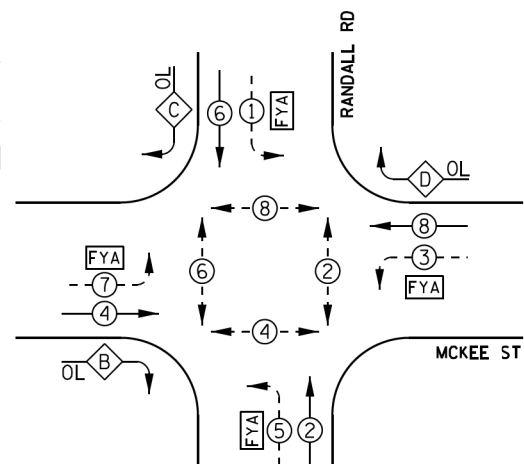
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



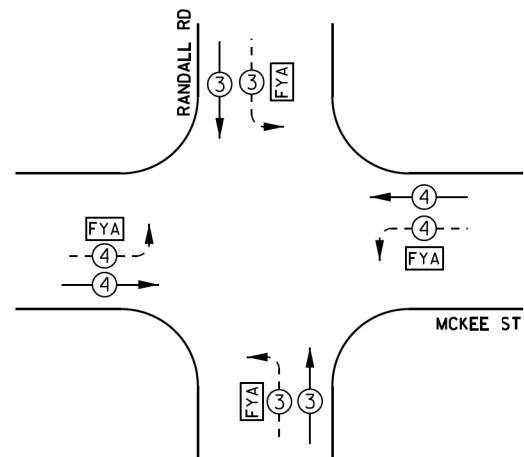
PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

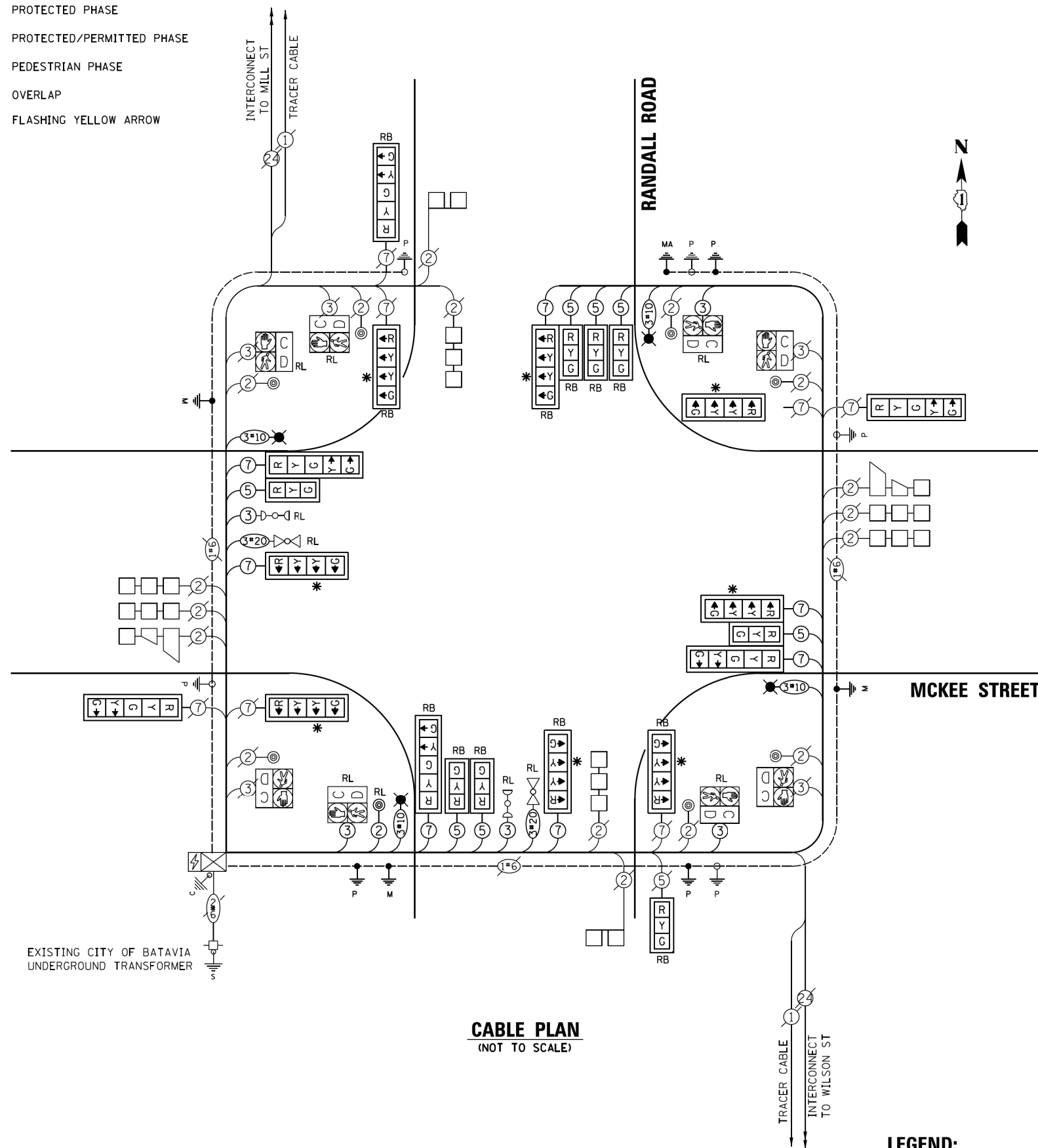
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ - - ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ ⊙ → OVERLAP
- ⊙ FYA FLASHING YELLOW ARROW



CABLE PLAN
(NOT TO SCALE)

LEGEND:

- * = INDICATES FLASHING YELLOW ARROW
- ⊙ = OUTDOOR NETWORK CABLE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		TOTAL WATTAGE
		LED	% OPERATION	
SIGNAL (RED)	14	11	0.50	77
(YELLOW)	14	20	0.05	14
(GREEN)	14	12	0.45	75.6
SOLID ARROW (RED)	8	10	0.50	40
(GREEN & YELLOW)	16	20	0.10	32
PED. SIGNAL	8	20	1.00	160
CONTROLLER	1	100	1.00	100
UPS	1	25	1.00	25
VIDEO SYSTEM	-	150	1.00	0
LUMINAIRE	4	250	0.50	500
FLASHER	4	10	0.50	20
FLASHING ARROW	11	12	0.05	6.6
TOTAL =				1050.2

ENERGY COSTS TO:

CITY OF BATAVIA
200 N RADDANT ROAD
BATAVIA, IL 60510

ENERGY SUPPLY: CONTACT: ELECTRIC UTILITY DIVISION
PHONE: 630-454-2350
COMPANY: CITY OF BATAVIA
ACCOUNT NUMBER: _____



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 2,0000' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

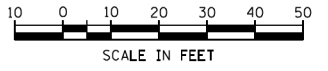
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
RANDALL ROAD AND MCKEE STREET

SCALE: SHEET OF SHEETS STA. TO STA.

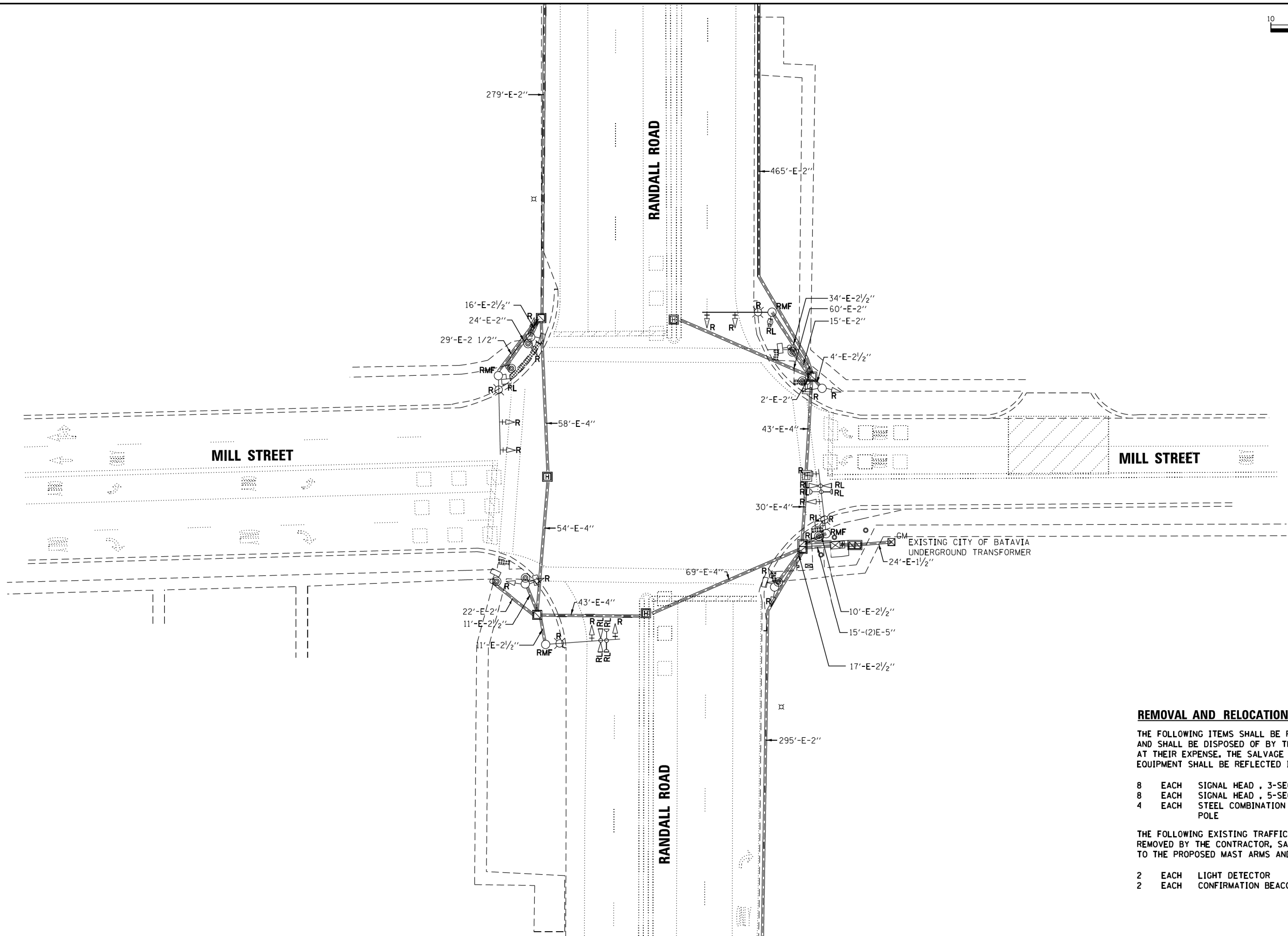
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	147
CONTRACT NO.				-
ILLINOIS FED. AID PROJECT				

FILE NAME: K11_111.ctb; 4/4/2017 4:40:40 PM



DATE	
BY	
PLAN	SUBMITTED
	PLOTTED
	ALIGNMENT CHECKED
	FIELD FILE NAME
NO.	

DATE	
BY	
PROFILE	SUBMITTED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATIONS OK'D
NO.	



REMOVAL AND RELOCATION NOTES:

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.

- 8 EACH SIGNAL HEAD, 3-SECTION
- 8 EACH SIGNAL HEAD, 5-SECTION
- 4 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON

FILE NAME: KH_111.ctb; 5a.dgn



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 48,0001" / 1"	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN RANDALL ROAD AND MILL STREET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

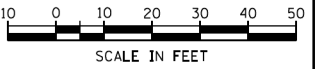
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-5P	KANE	172	149
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

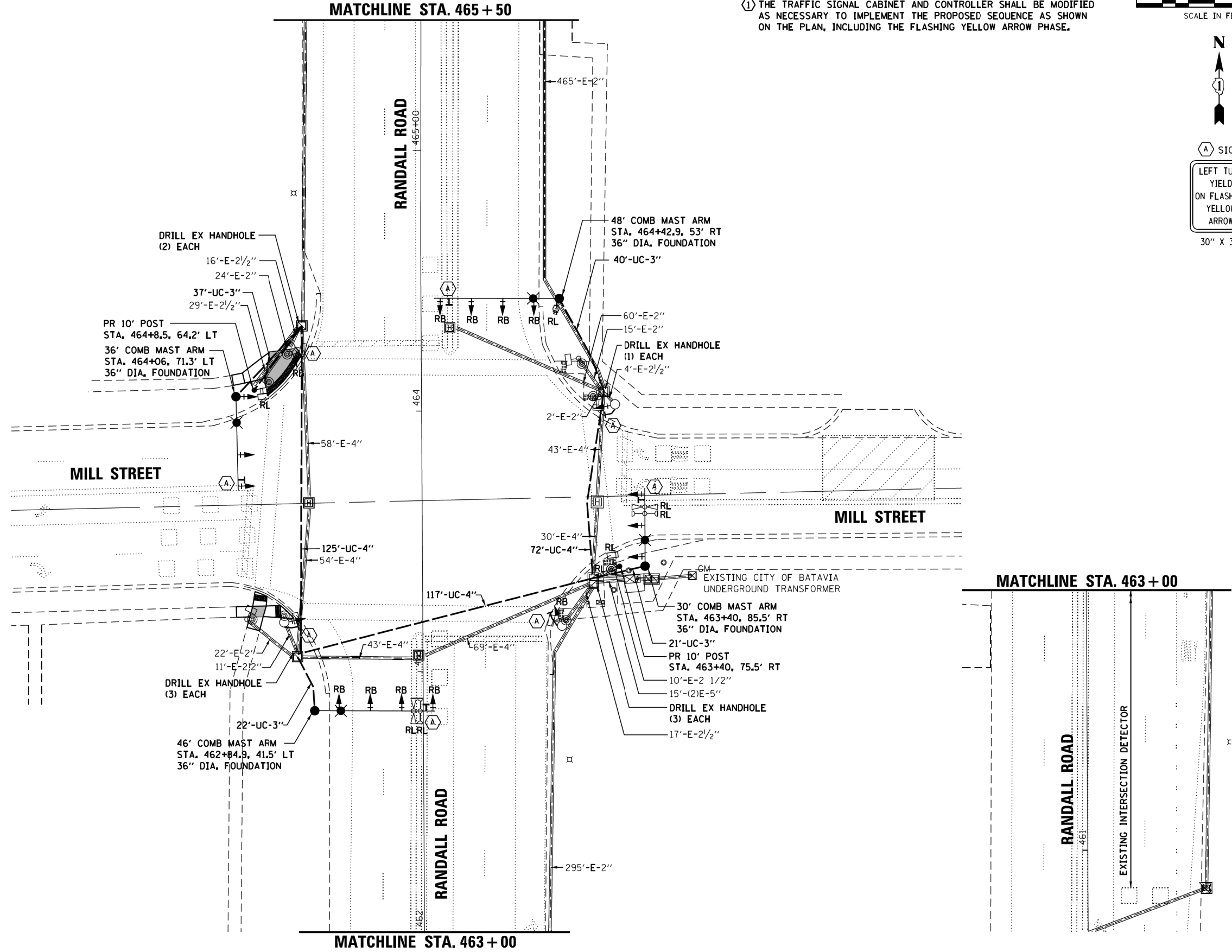
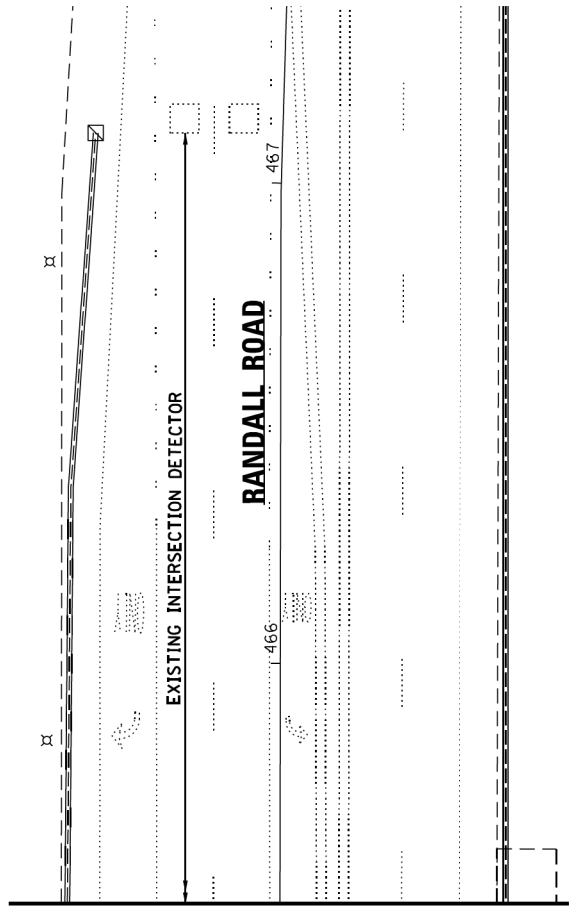
PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK NO.	
	STRUCTURE NOTATIONS DRPD	

CONSTRUCTION NOTES:

① THE TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE AS SHOWN ON THE PLAN, INCLUDING THE FLASHING YELLOW ARROW.



A SIGN



FILE NAME: KH_sht.ctb; 5c.dgn



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED
PLOT SCALE = 48,000/1" = 1/4"		
PLOT DATE = 12/7/2017		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
RANDALL ROAD AND MILL STREET

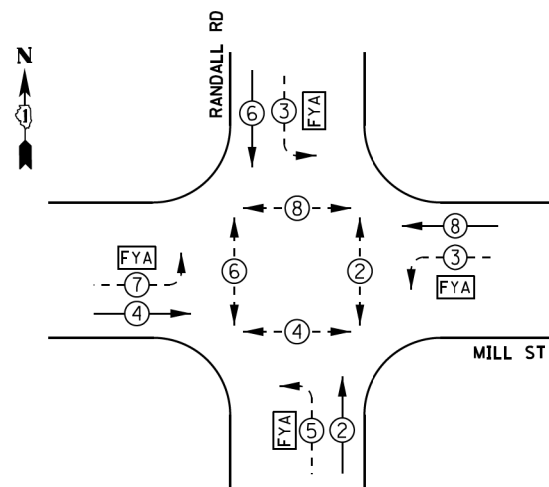
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	150
				CONTRACT NO.
				-
ILLINOIS FED. AID PROJECT				

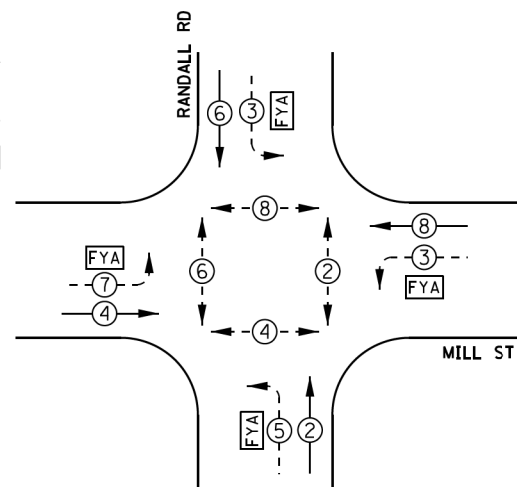
DATE	
BY	
SUBMITTED	
PLANNED	
NOTE BOOK	
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PLAN	
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NOTE BOOK	
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PROFILE	
NO.	
NOTE BOOK	
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STRUCTURE	
NO.	
STATUS	
DATE	
BY	
SUBMITTED	
PLANNED	
NOTE BOOK	
NO.	
PROFILE	
NO.	
NOTE BOOK	
NO.	
STRUCTURE	
NO.	
STATUS	

DATE	
BY	
SUBMITTED	
PLANNED	
NOTE BOOK	
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PROFILE	
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NO.	
STRUCTURE	
NO.	
STATUS	

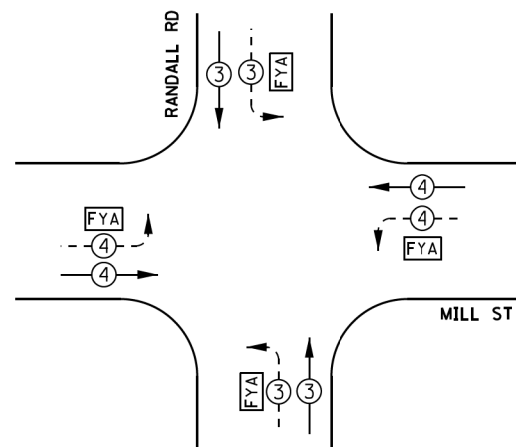
EXISTING CONTROLLER SEQUENCE



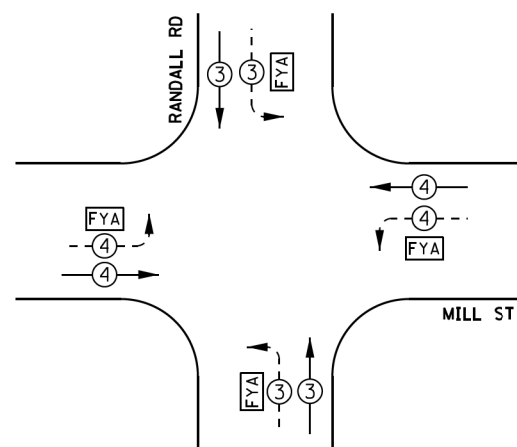
PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ ⊙ ⊙ → PEDESTRIAN PHASE
- ← ⊙ ⊙ ⊙ ⊙ → OVERLAP
- ⊙ FYA FLASHING YELLOW ARROW

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		TOTAL WATTAGE
		LED	% OPERATION	
SIGNAL (RED)	13	11	0.50	71.5
(YELLOW)	13	20	0.05	13
(GREEN)	13	12	0.45	70.2
SOLID ARROW (RED)	8	10	0.50	40
(GREEN & YELLOW)	16	20	0.10	32
PED. SIGNAL	8	20	1.00	160
CONTROLLER	1	100	1.00	100
UPS	1	25	1.00	25
VIDEO SYSTEM	-	150	1.00	0
LUMINAIRE	4	250	0.50	500
FLASHER	4	10	0.50	20
FLASHING ARROW	8	12	0.05	4.8
TOTAL =				1036.5

ENERGY COSTS TO:

CITY OF BATAVIA
200 N RADDANT ROAD
BATAVIA, IL 60510

ENERGY SUPPLY: CONTACT: ELECTRIC UTILITY DIVISION
PHONE: 630-454-2350
COMPANY: CITY OF BATAVIA
ACCOUNT NUMBER:



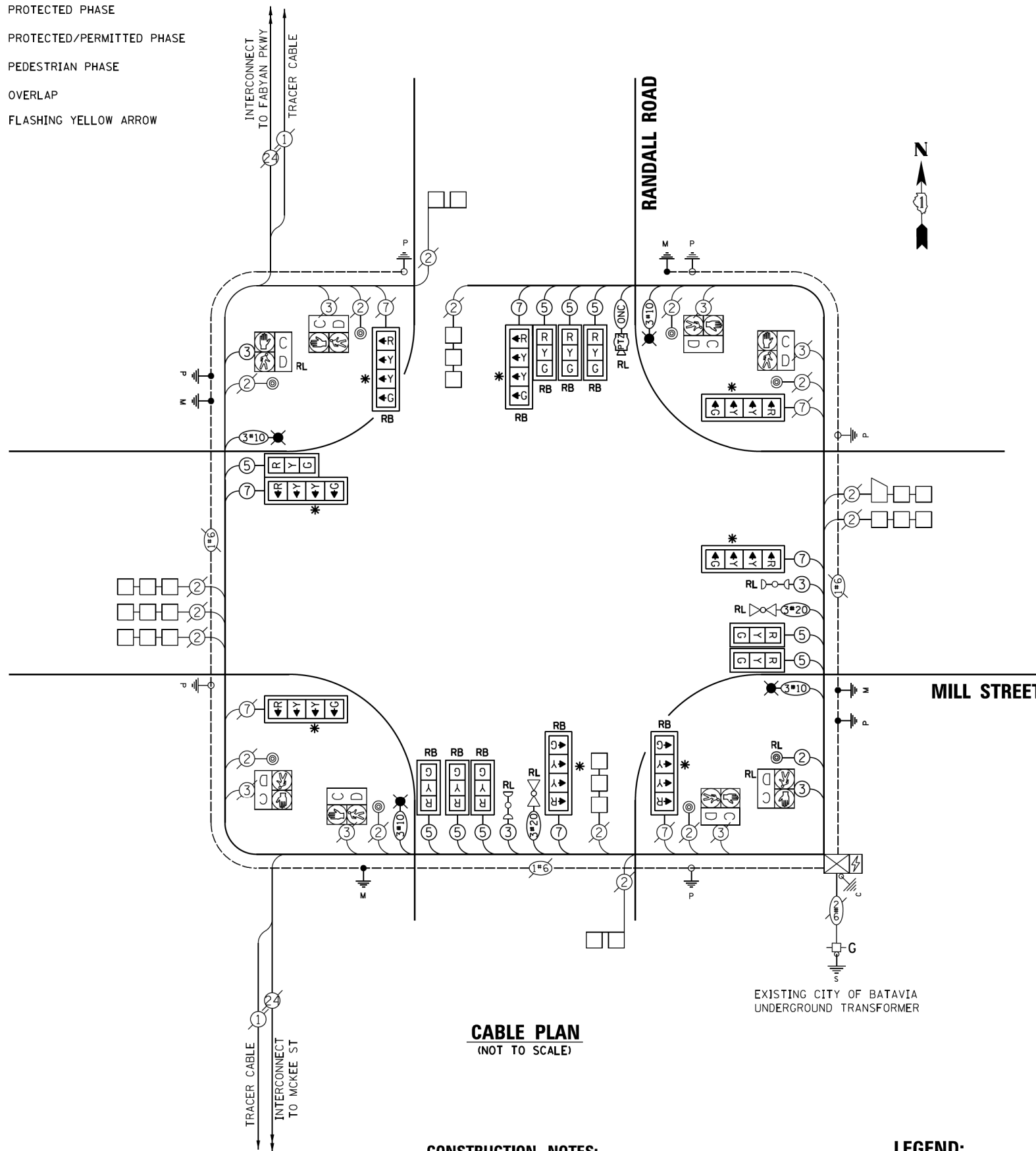
USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 2,0000' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE RANDALL ROAD AND MILL STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	151
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



CABLE PLAN
(NOT TO SCALE)

CONSTRUCTION NOTES:

- ① THE TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE AS SHOWN ON THE PLAN, INCLUDING THE FLASHING YELLOW ARROW PHASE.

LEGEND:

- * = INDICATES FLASHING YELLOW ARROW
- ⊙ = OUTDOOR NETWORK CABLE

FILE NAME: K11_111.ctb; 12/7/2017 10:54:58 AM

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MC	0.5
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	83
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	314
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,577
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	60
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	707
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,080
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,962
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	480
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	7
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,939
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	339
OUTDOOR RATED NETWORK CABLE	FOOT	215
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

PROFILE SURVEYED _____ GRADES CHECKED _____ E.M. NOTED _____ STRUCTURE NOTATIONS CHK'D _____ NOTE BOOK NO. _____	PLAN SURVEYED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ PADD FILE NAME _____ NOTE BOOK NO. _____	BY _____ DATE _____	BY _____ DATE _____
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CHRISTOPHER B. BURKE
 ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 922-5500

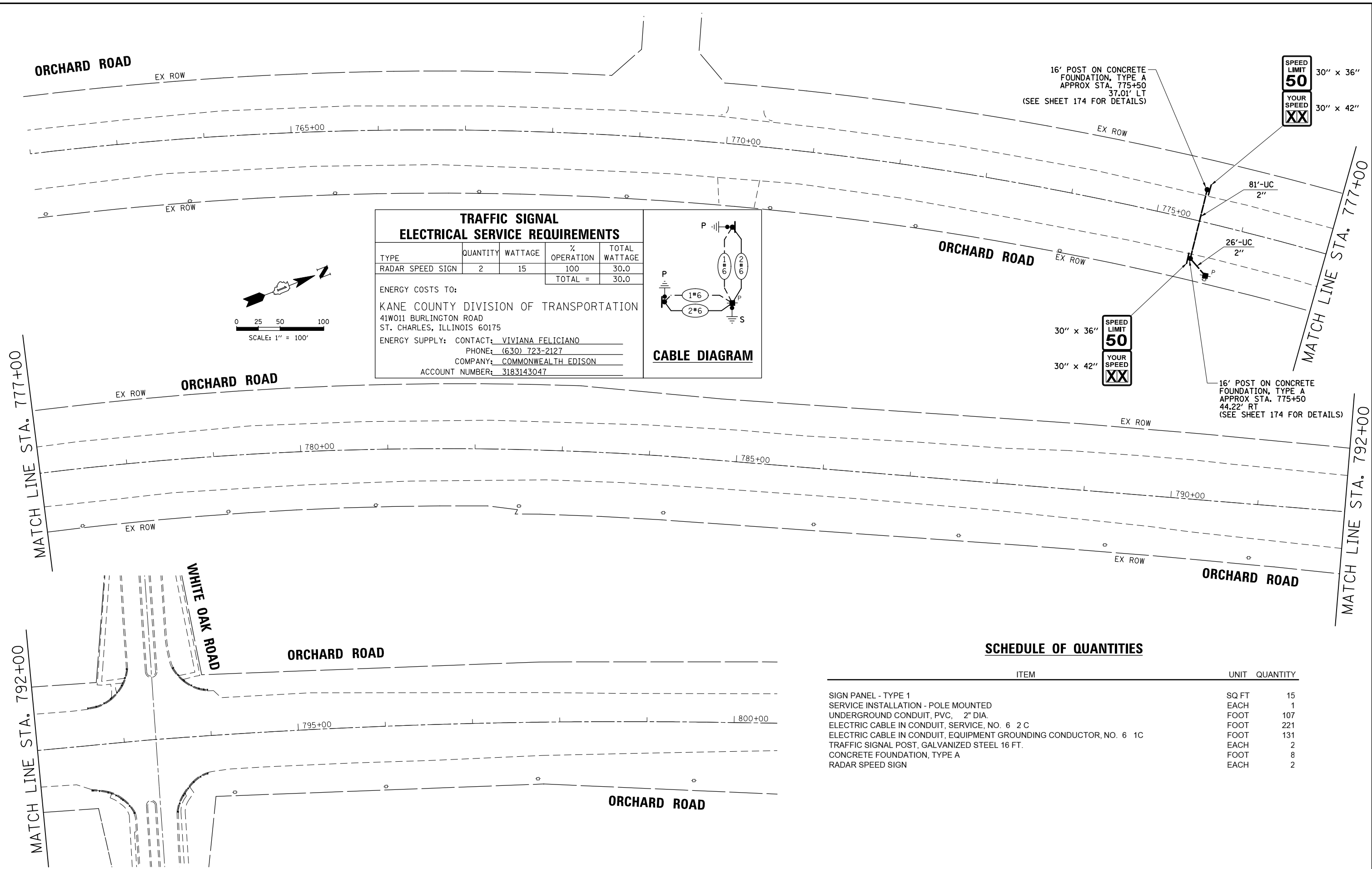


TS SHT NO. 152

FILE NAME ESL_Sheet-20_0TY_Randall-M11	USER NAME = fbariso	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES RANDALL ROAD AND MILL STREET	F.A.P. RTE. 363 FAP 336	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 152
	PLLOT SCALE = 48'	CHECKED - GMZ	REVISED -			CONTRACT NO.				
	PLLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)

PROFILE SURVEYED _____ DATE _____
 NOTE BOOK _____
 NO. _____
 GRADES CHECKED _____
 STRUCTURE NOTATIONS OKWD
 PLAN SURVEYED _____ DATE _____
 NOTE BOOK _____
 NO. _____
 RT. OF WAY CHECKED _____
 CAD FILE NAME _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-9900

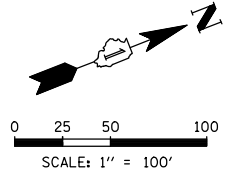
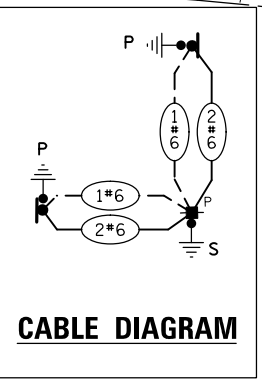
TS SHT NO. 154



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	WATTAGE	% OPERATION	TOTAL WATTAGE
RADAR SPEED SIGN	2	15	100	30.0
TOTAL =				30.0

ENERGY COSTS TO:
 KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, ILLINOIS 60175
 ENERGY SUPPLY: CONTACT: VIVIANA FELICIANO
 PHONE: (630) 723-2127
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 3183143047



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	15
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	107
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	221
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	131
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
RADAR SPEED SIGN	EACH	2

FILE NAME SGN_ORCHARD	USER NAME = fbariso	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 12/8/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

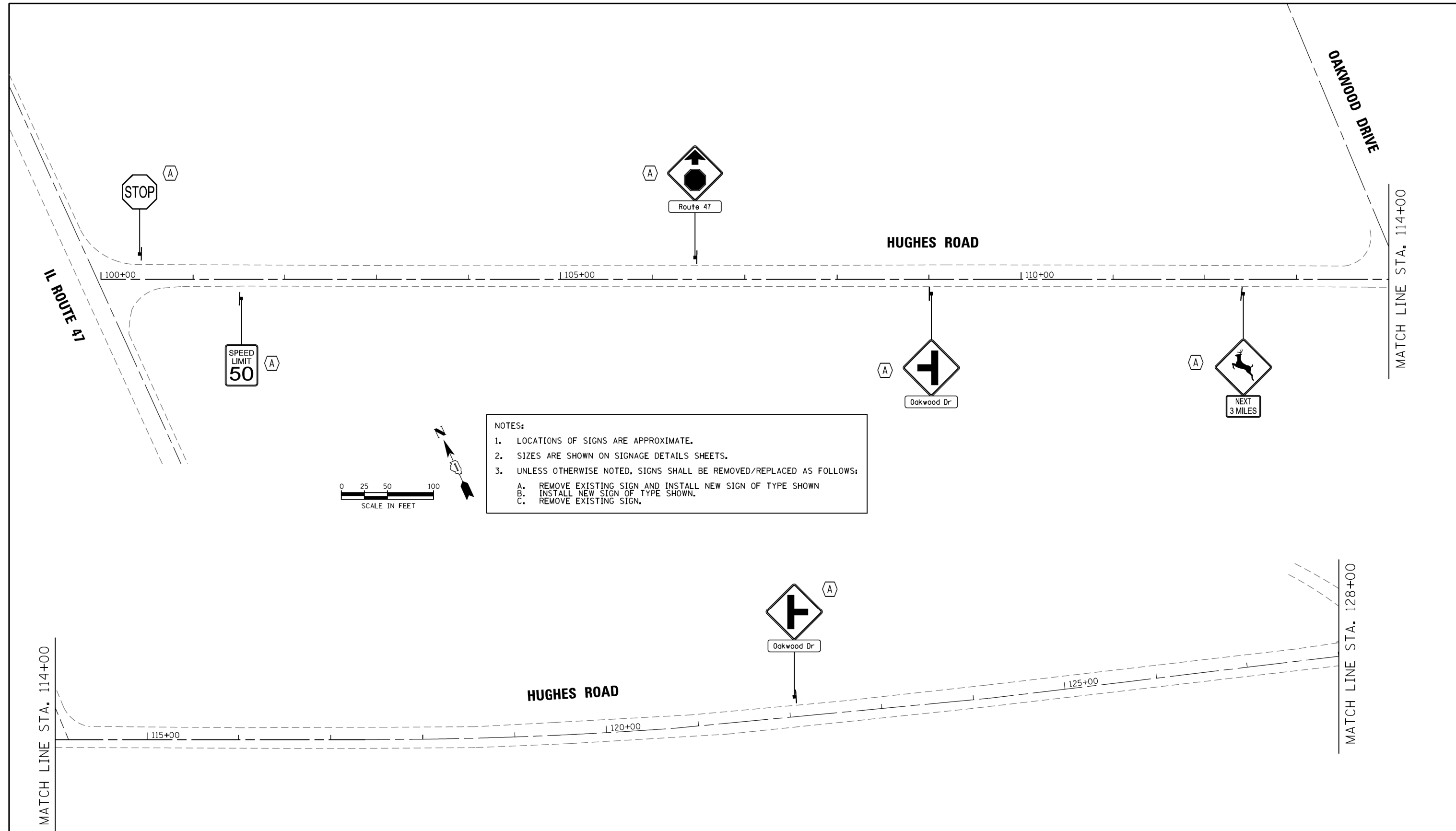
SIGNING PLAN
ORCHARD ROAD FROM OAK STREET TO RANDALL ROAD

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 363	SECTION 12-00424-00-SP	COUNTY KANE	TOTAL SHEETS 172	SHEET NO. 154
F.A.P. 336			CONTRACT NO.	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HSIP-0089(171)		

DATE	
BY	
PLAN	SUBMITTED
	PLOTTED
	ALIGNMENT CHECKED
	NOTE BOOK NO.
	CADD FILE NAME

DATE	
BY	
PROFILE	SUBMITTED
	GRADES CHECKED
	STRUCTURE NOTATIONS OK'D
	NOTE BOOK NO.
	CADD FILE NAME



NOTES:

1. LOCATIONS OF SIGNS ARE APPROXIMATE.
2. SIZES ARE SHOWN ON SIGNAGE DETAILS SHEETS.
3. UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:
 - A. REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN
 - B. INSTALL NEW SIGN OF TYPE SHOWN.
 - C. REMOVE EXISTING SIGN.



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

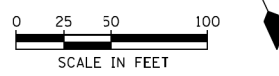
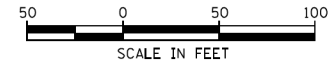
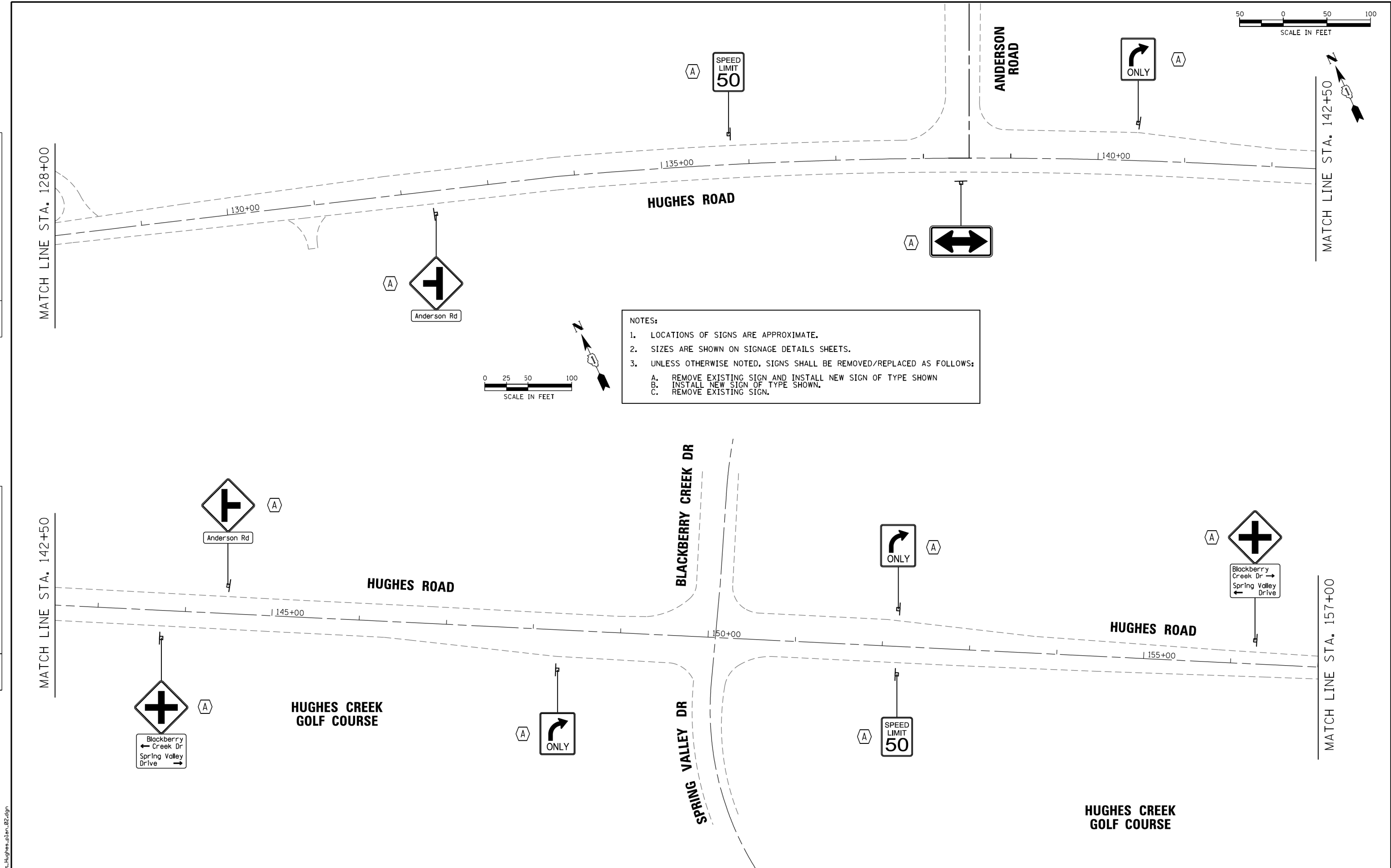
**SIGNING PLAN
HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	155
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_sht_Hughes.p1en_01.dgn

PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	SUBMITTED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOTATION OK'D		
	NO.		



NOTES:

- LOCATIONS OF SIGNS ARE APPROXIMATE.
- SIZES ARE SHOWN ON SIGNAGE DETAILS SHEETS.
- UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:
 - A. REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN
 - B. INSTALL NEW SIGN OF TYPE SHOWN.
 - C. REMOVE EXISTING SIGN.



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

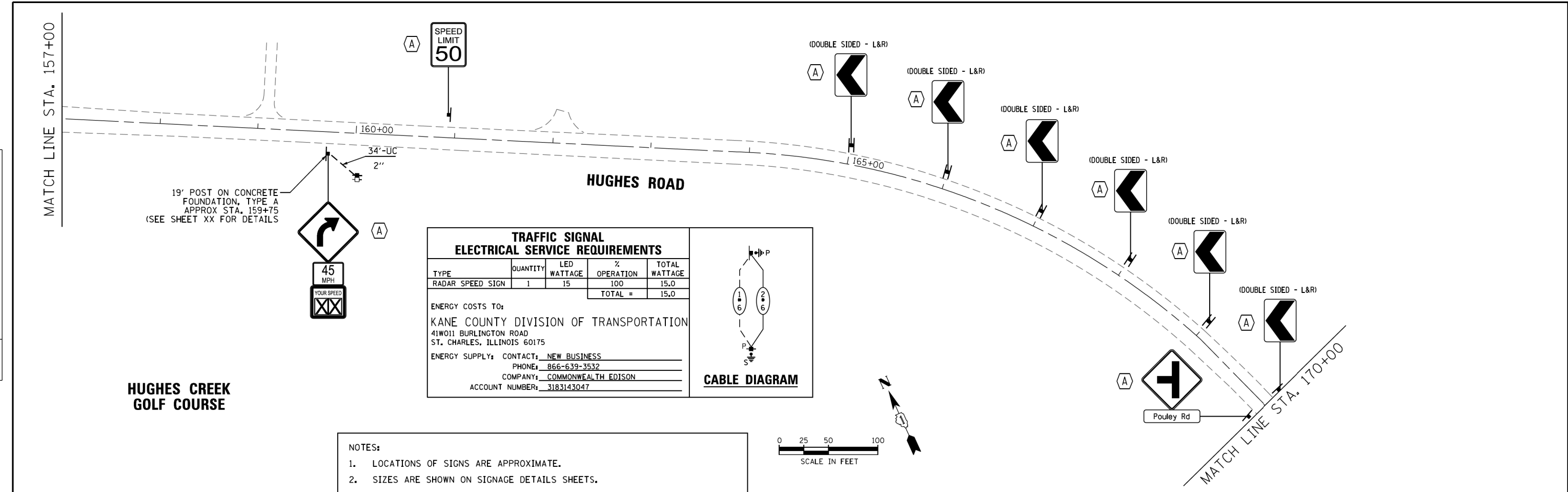
**SIGNING PLAN
HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	156
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_sht_Hughes.p1en_02.dgn

DATE	
BY	
PLAN	
SUBMITTED	
PLOTTED	
ALIGNMENT CHECKED	
NOTED	
CAD FILE NAME	
NO.	

DATE	
BY	
PROFILE	
SUBMITTED	
PLOTTED	
GRADES CHECKED	
NOTED	
STRUCTURE NOTATIONS OK'D	
NO.	



HUGHES CREEK GOLF COURSE

NOTES:

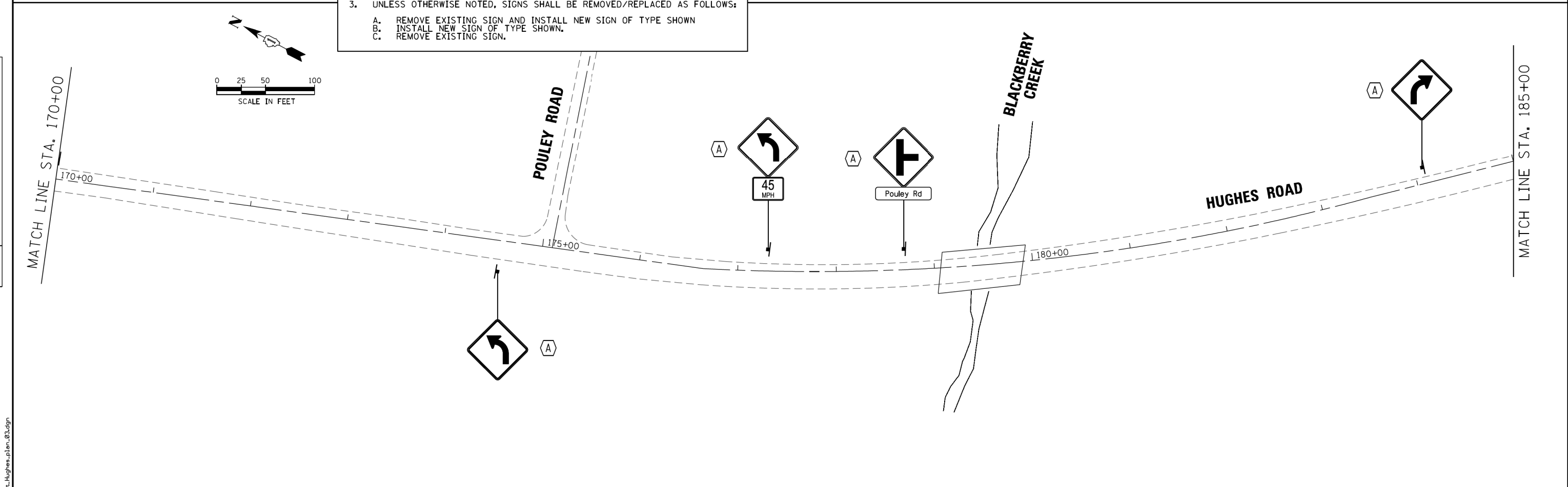
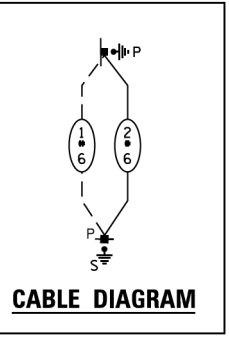
- LOCATIONS OF SIGNS ARE APPROXIMATE.
- SIZES ARE SHOWN ON SIGNAGE DETAILS SHEETS.
- UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:
 - REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN
 - INSTALL NEW SIGN OF TYPE SHOWN.
 - REMOVE EXISTING SIGN.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	% OPERATION	TOTAL WATTAGE
RADAR SPEED SIGN	1	15	100	15.0
TOTAL =				15.0

ENERGY COSTS TO:
 KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, ILLINOIS 60175

ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: 866-639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 3183143047



ESI CONSULTANTS, LTD. <small>3718 N. HOLLAND STREET, SUITE 100 SAUNTEEVILLE, IL 62455 WWW.ESI-CONSULTANTS.COM</small>	USER NAME = bhenrichs	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING PLAN HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0002' / 1"	CHECKED	REVISED		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	KANE
PLOT DATE = 12/7/2017	DATE	REVISED								CONTRACT NO.		
										ILLINOIS FED. AID PROJECT		

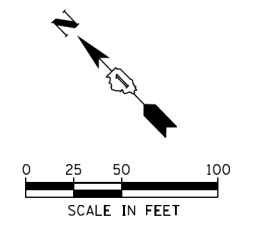
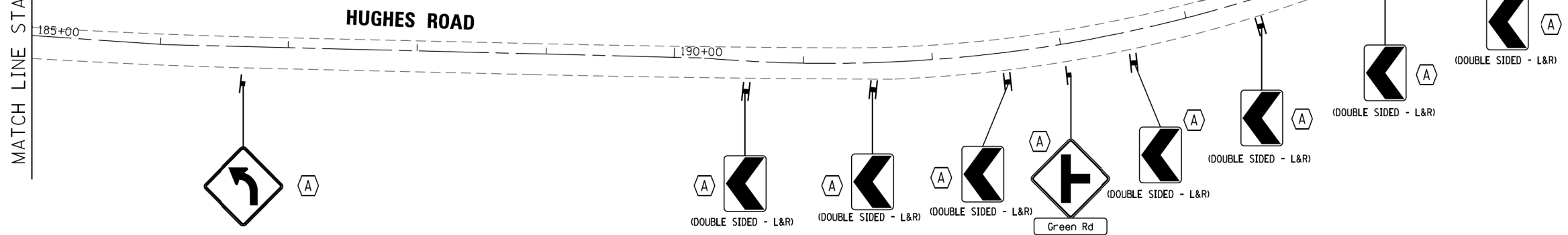
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PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SUBMITTED	DATE
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	CADD FILE NAME	

MATCH LINE STA. 185+00

MATCH LINE STA. 199+00

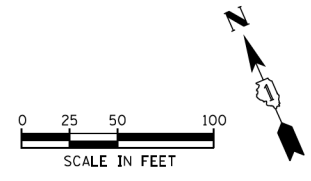
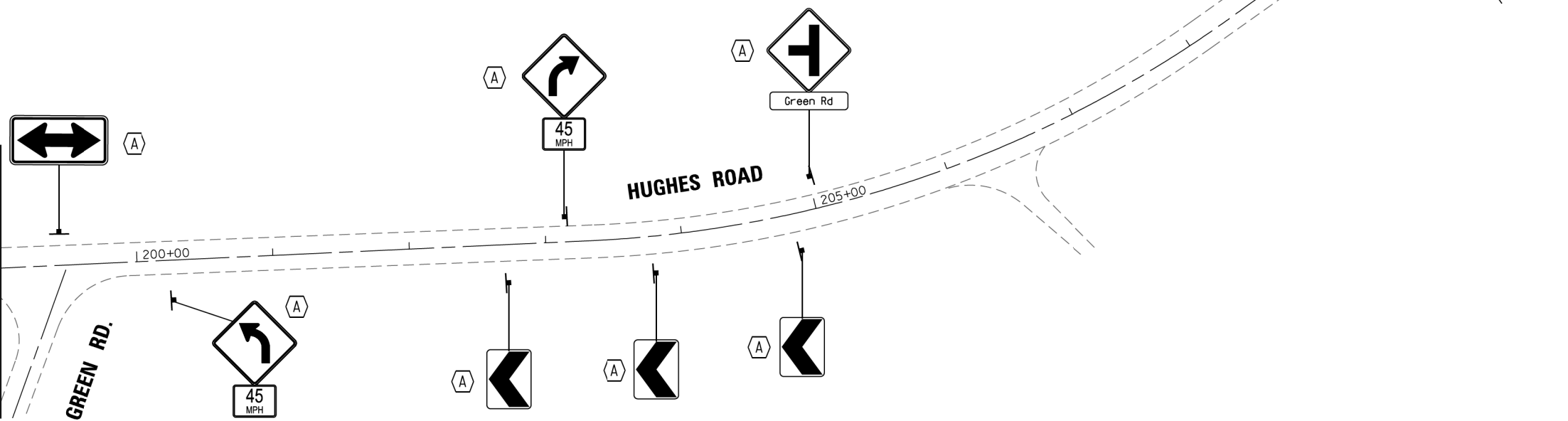


NOTES:

- LOCATIONS OF SIGNS ARE APPROXIMATE.
- SIZES ARE SHOWN ON SIGNAGE DETAILS SHEETS.
- UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:
 - A. REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN
 - B. INSTALL NEW SIGN OF TYPE SHOWN.
 - C. REMOVE EXISTING SIGN.

MATCH LINE STA. 199+00

MATCH LINE STA. 210+00



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 MARIETTA, IL 60157
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 www.esiconsultants.com

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	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING PLAN			
HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	158
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

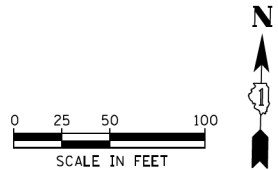
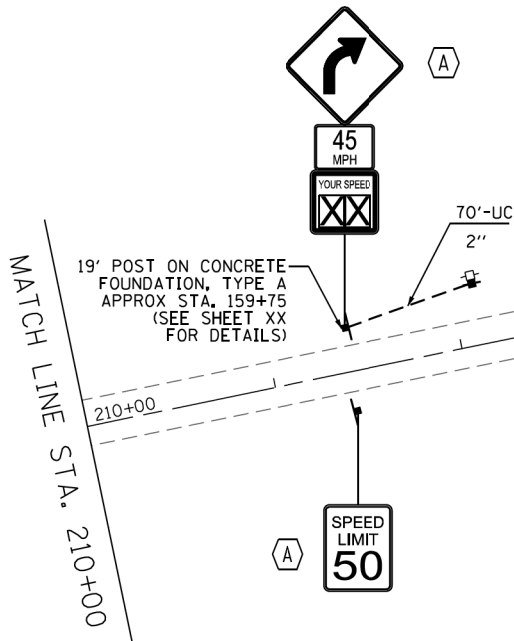
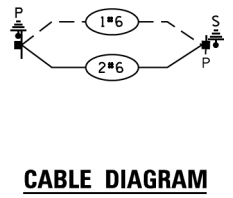
FILE NAME: KH_sht_Hughes.p1en_04.dgn

PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	CARD FILE NAME	
	NOTE BOOK NO.	

PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	QUANTITY	LED WATTAGE	% OPERATION	TOTAL WATTAGE
RADAR SPEED SIGN	1	15	100	15.0
			TOTAL =	15.0

ENERGY COSTS TO:
 KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, ILLINOIS 60175
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: 866-639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 3183143047



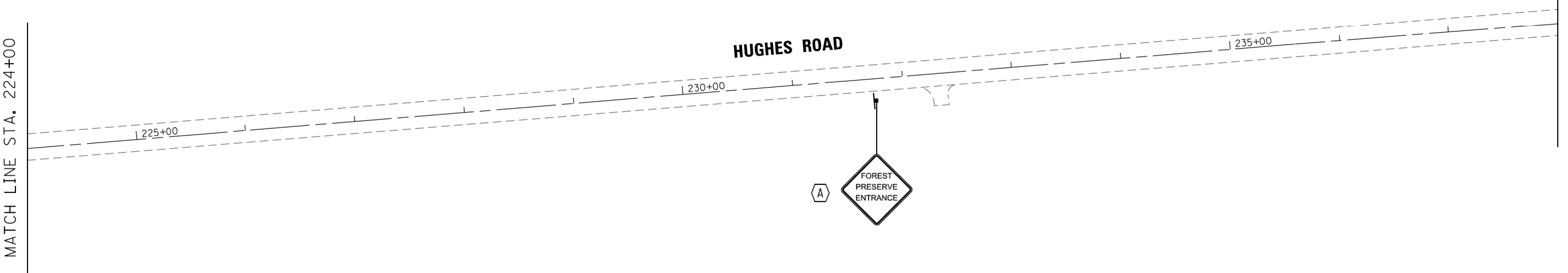
NOTES:

- LOCATIONS OF SIGNS ARE APPROXIMATE.
- SIZES ARE SHOWN ON SIGNAGE DETAILS SHEETS.
- UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:
 - A. REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN
 - B. INSTALL NEW SIGN OF TYPE SHOWN.
 - C. REMOVE EXISTING SIGN.

MATCH LINE STA. 224+00

MATCH LINE STA. 238+00

MATCH LINE STA. 224+00



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
 HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	159
CONTRACT NO.			-	

FILE NAME: KH_sht_Hughes.p1en_05.dgn

PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK		
	NO.		
	CADD FILE NAME		

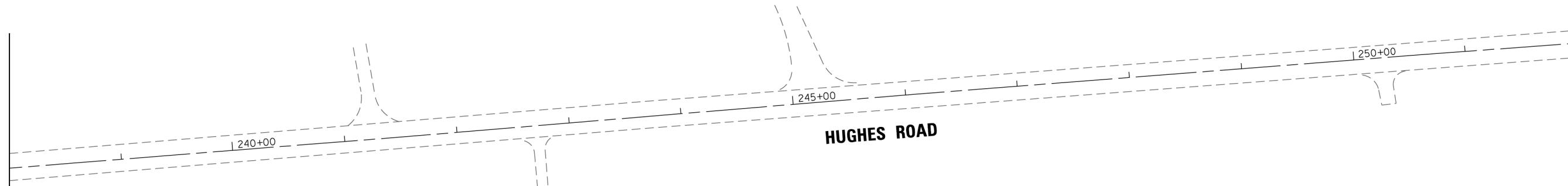
PROFILE	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK		
	NO.		
	STRUCTURE NOTATIONS CHECKED		

MATCH LINE STA. 238+00

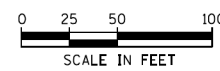
MATCH LINE STA. 252+00

MATCH LINE STA. 252+00

MATCH LINE STA. 266+00



HUGHES ROAD



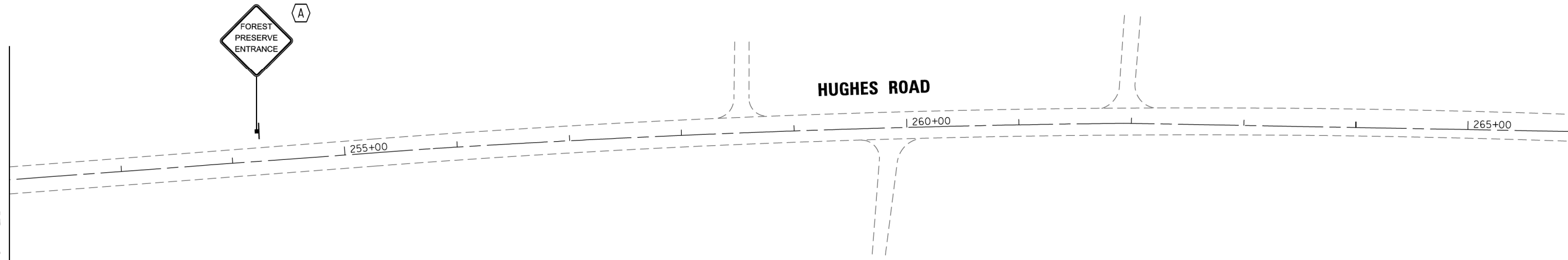
NOTES:

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 - INSTALL NEW SIGN OF TYPE SHOWN.
 - REMOVE EXISTING SIGN.

JOHNSON'S MOUND
FOREST PRESERVE



HUGHES ROAD



FILE NAME: KH_sht_Hughes.p1en_06.sdg

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375 N. HILL STREET, SUITE 100
NORTONVILLE, IL 62550
www.esiconsultants.com

USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	160
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATION		
	FILE NAME		

PROFILE	SUBMITTED	BY	DATE
	GRADES CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATION		
	FILE NAME		

MATCH LINE STA. 266+00

MATCH LINE STA. 280+00

MATCH LINE STA. 280+00

MATCH LINE STA. 294+00

HUGHES ROAD

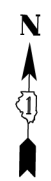
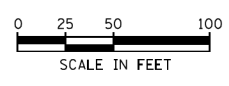
SPEED LIMIT 50

BUNKER ROAD

Bunker Rd

Bunker Rd

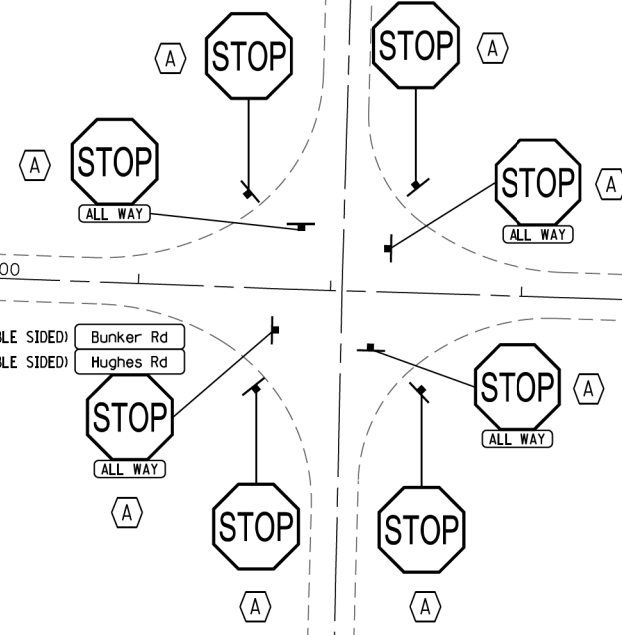
HUGHES ROAD



NOTES:

- LOCATIONS OF SIGNS ARE APPROXIMATE.
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 - B. INSTALL NEW SIGN OF TYPE SHOWN.
 - C. REMOVE EXISTING SIGN.
 - D. REMOVE AND REINSTALL EXISTING SIGN.

SPEED LIMIT 50



FILE NAME: KH_sht_Hughes.p1en_07.dgn



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN			
HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	161
CONTRACT NO.				-
ILLINOIS FED. AID PROJECT				

PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

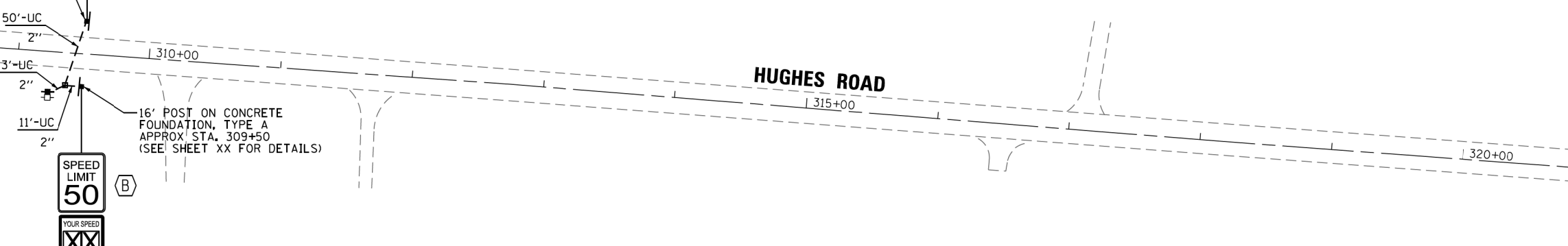
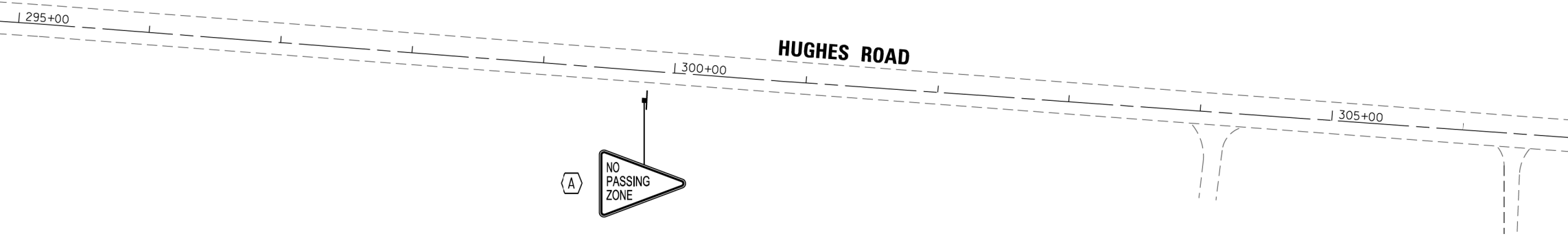
PROFILE	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NO.		

MATCH LINE STA. 294+00

MATCH LINE STA. 308+00

MATCH LINE STA. 308+00

MATCH LINE STA. 322+00



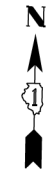
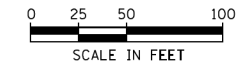
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	% OPERATION	TOTAL WATTAGE
RADAR SPEED SIGN	2	15	100	30.0
TOTAL =				30.0

ENERGY COSTS TO:
KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, ILLINOIS 60175

ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: 866-639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 3183143047

CABLE DIAGRAM



- NOTES:**
- LOCATIONS OF SIGNS ARE APPROXIMATE.
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 - B. INSTALL NEW SIGN OF TYPE SHOWN
 - C. REMOVE EXISTING SIGN.

FILE NAME: KH_sht_Hughes.p1en_08.dgn

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 375 S. MILL STREET, SUITE 100
 SAUNTEEVA, IL 60087
 (708) 481-1100
 www.esiconsultants.com

USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

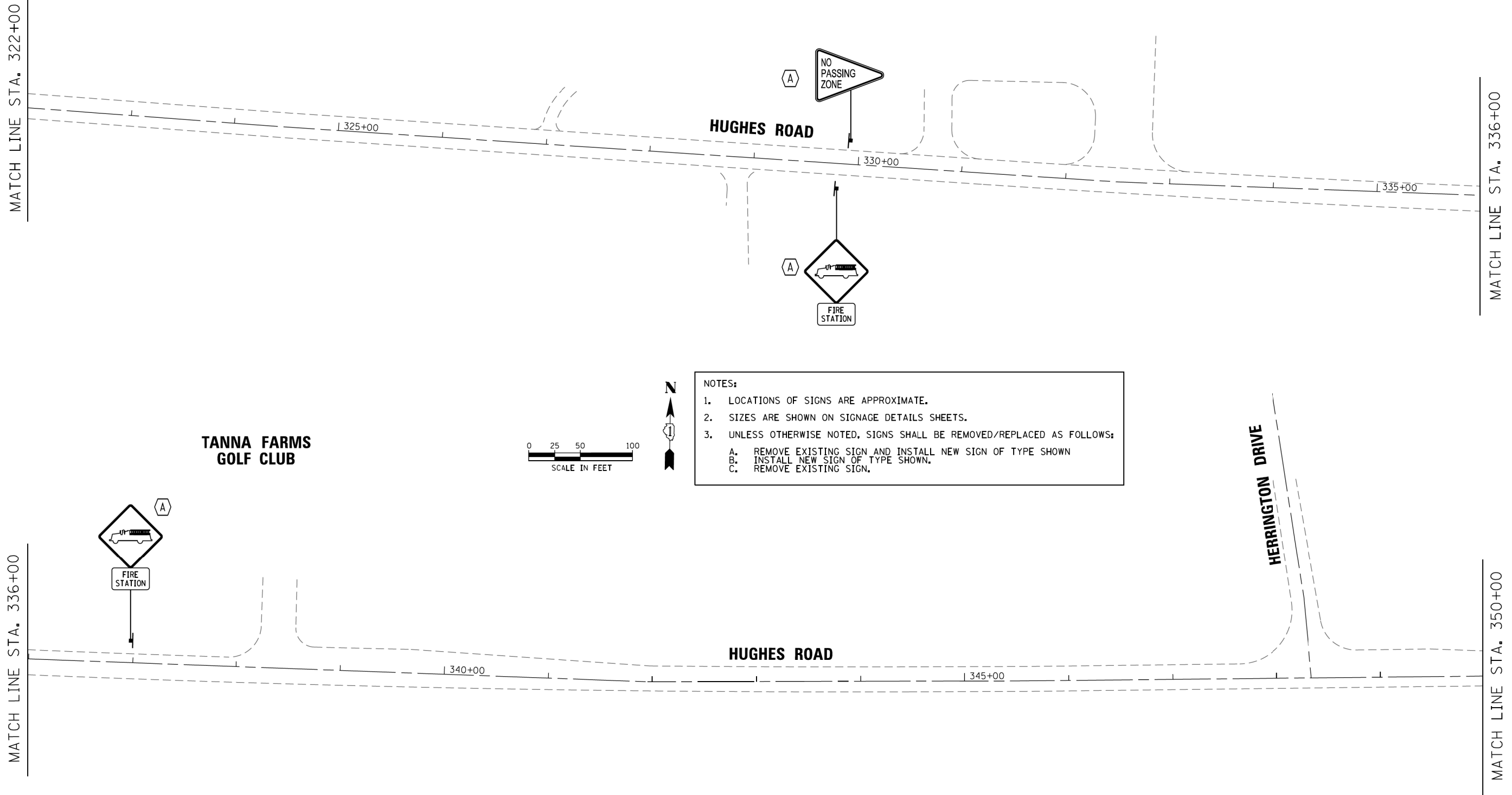
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
 HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	162
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	SUBMITTED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NOTE BOOK NO.		
	FILE NAME		



NOTES:

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 - C. REMOVE EXISTING SIGN.



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY**

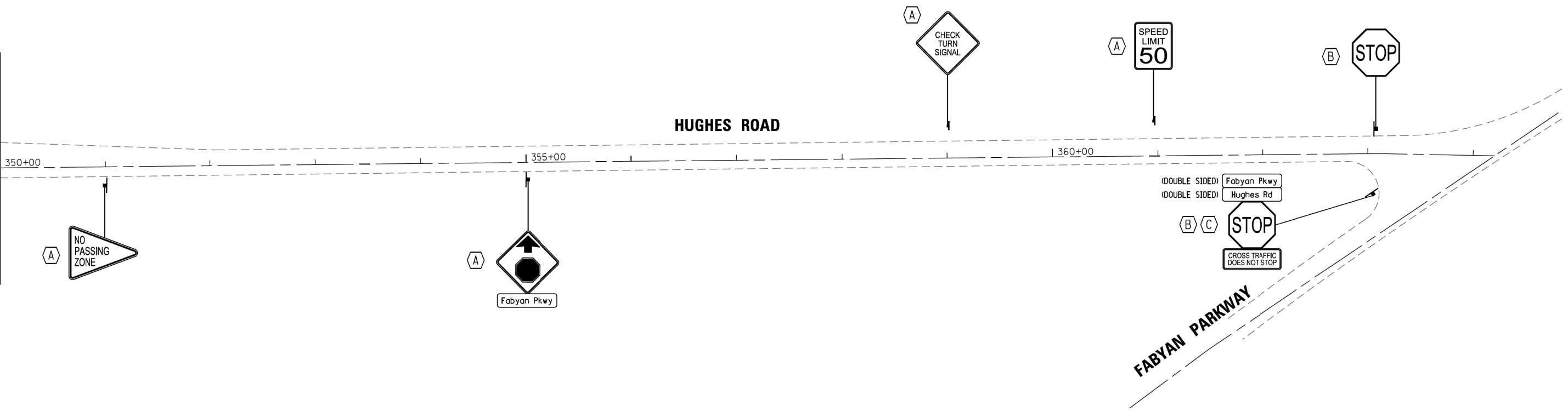
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	163
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_sht_Hughes.p1en_08.dgn

PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATION		

MATCH LINE STA. 350+00



NOTES:

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 - INSTALL NEW SIGN OF TYPE SHOWN.
 - REMOVE EXISTING SIGN.

FILE NAME: KH_sht_Hughes.p1en_18.dgn



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	164
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

DATE	
BY	
PLAN	
NOTE BOOK NO.	
SUBMITTED	
PLOTTED	
ALIGNMENT CHECKED	
AS BUILT FILE NAME	

DATE	
BY	
PROFILE	
NOTE BOOK NO.	
SUBMITTED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS OK'D	



R1-1
(36 x 36)
11 EACH



R1-3P
(30 x 12)
4 EACH



R2-1
(30 x 36)
10 EACH



R3-5R
(30 x 36)
3 EACH



W1-2L
(36 x 36)
4 EACH



W1-2R
(36 x 36)
4 EACH



W1-7
(60 x 30)
2 EACH



W1-8L
(24 x 30)
16 EACH



W1-8R
(24 x 30)
13 EACH



W2-1
(36 x 36)
2 EACH



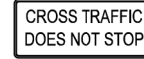
W2-2L
(36 x 36)
4 EACH



W2-2R
(36 x 36)
4 EACH



W3-1
(36 x 36)
4 EACH



W4-4P
(36 x 18)
1 EACH



W7-3aP
(24 x 18)
1 EACH



W11-3 (DEER)
(36 x 36)
1 EACH



W11-8
(36 x 36)
2 EACH



W13-1P
(30 x 30)
4 EACH



W14-3
(48 x 48 x 36)
5 EACH



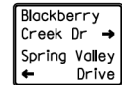
W16
(36 x 24)
2 EACH



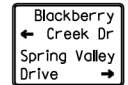
W
(36 x 36)
1 EACH



W
(36 x 36)
2 EACH



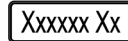
W16-8aP
(36 x 30)
1 EACH



W16-8aP
(36 x 30)
1 EACH



W16-8P
(VARIES x 8)
Route 47 - 1
Oakwood Dr - 2
Anderson Rd - 2
Pouley Rd - 2
Green Rd - 2
Bunker Rd - 2
Fabyan Pkwy - 1



D3-1
(VARIES x 12)
Bunker Rd - 2
Fabyan Pkwy - 2
Hughes Rd - 4

NOTES:

- ALL SIGN PANEL SIZES ARE IN INCHES.
- RADAR SPEED SIGNS SHALL BE INSTALLED PER THE DETAIL ON SHEET XX.
- ALL OTHER SIGNS SHALL BE INSTALLED PER IDOT STANDARDS.

SUMMARY OF QUANTITIES

ITEM	UNIT	QTY
SIGN PANEL - TYPE 1	SQ FT	746.5
SIGN PANEL - TYPE 2	SQ FT	25
REMOVE SIGN PANEL ASSEMBLY- TYPE A	EACH	46
REMOVE SIGN PANEL ASSEMBLY- TYPE B	EACH	21
REMOVE SIGN PANEL - TYPE 1	SQ FT	27
RELOCATE SIGN PANEL, TYPE 1	SQ FT	9
METAL POST - TYPE A	FOOT	294
METAL POST - TYPE B	FOOT	962
SERVICE INSTALLATION - POLE MOUNTED	EACH	3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	178
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 1C	FOOT	729
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	16
RADAR SPEED SIGN	EACH	4



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 200.0004' / 1"	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY

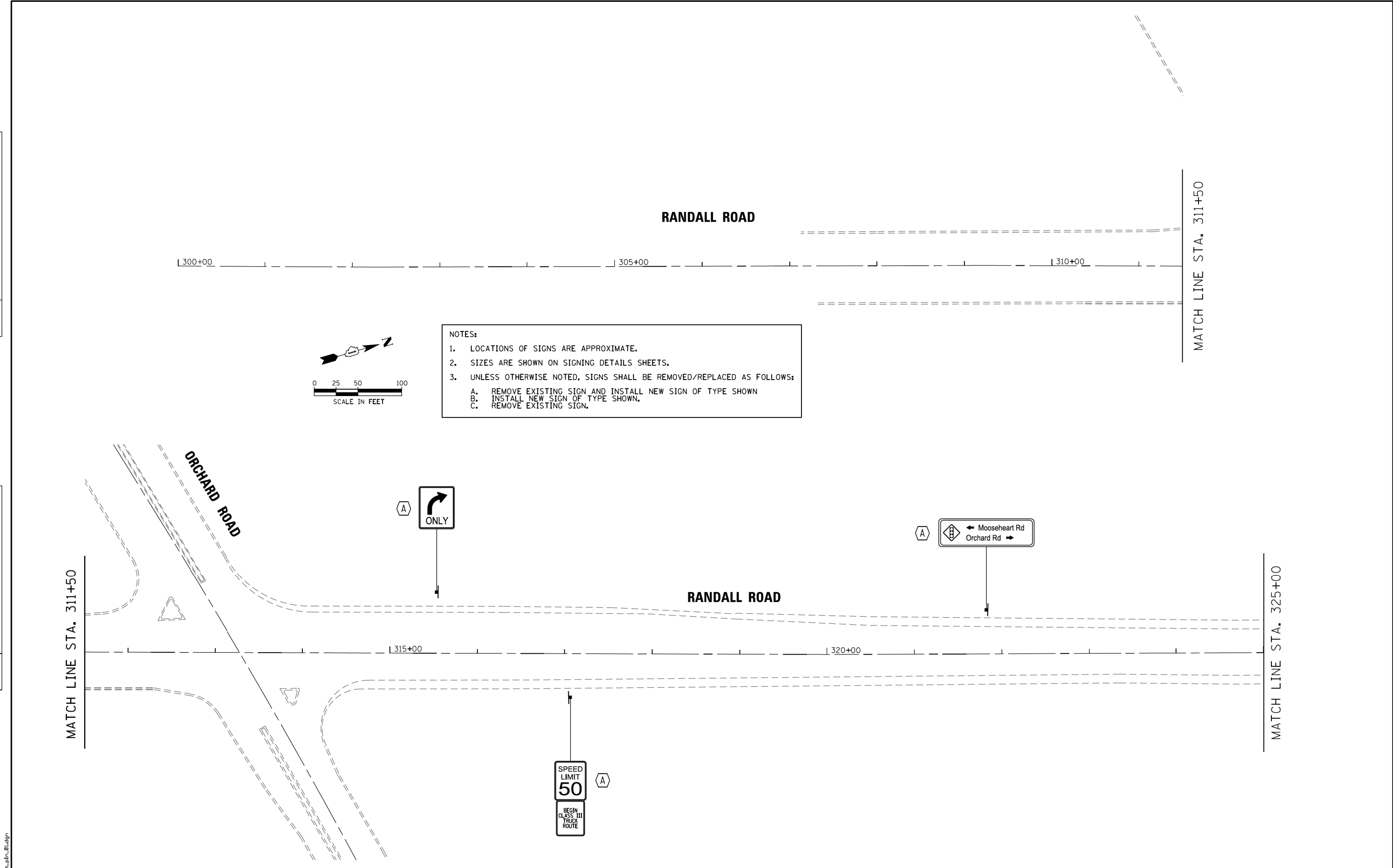
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-5P	KANE	172	165
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_sht_Hughes.dwg

PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATIONS OK'D		



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 375 N. HOLLAND STREET, SUITE 100
 SAUNTEEVA, IL 60194
 www.esiconsultants.com

USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
 RANDALL ROAD FROM ORCHARD ROAD TO MAIN STREET**

SCALE: SHEET OF SHEETS STA. TO STA.

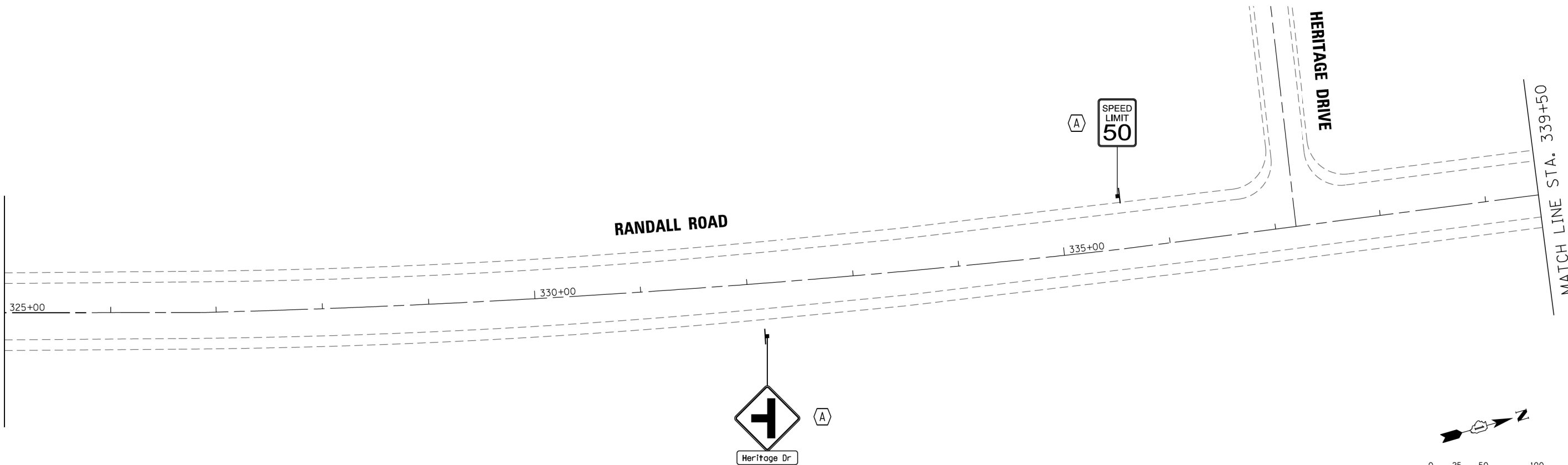
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	166
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_int.plt_01.dgn

PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	

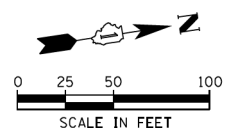
PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS CHECKED	

MATCH LINE STA. 325+00

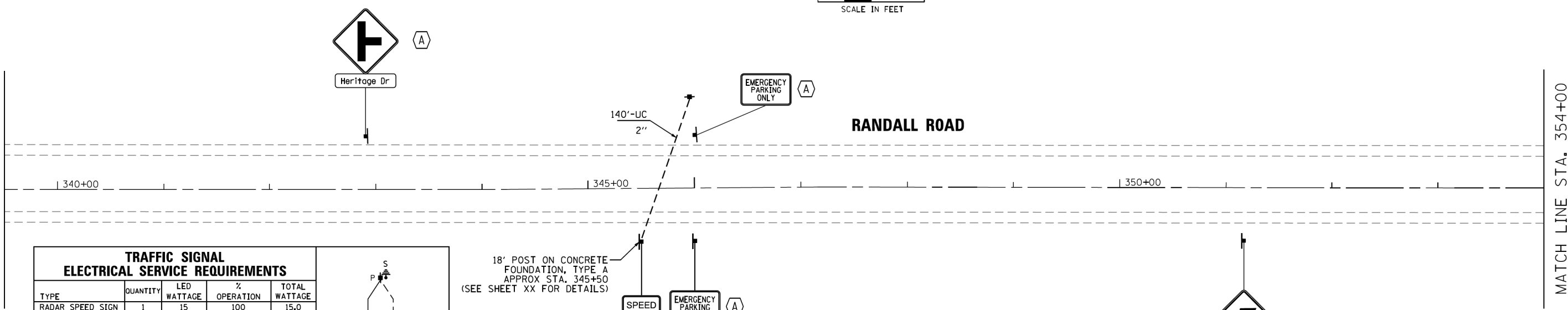


NOTES:

- LOCATIONS OF SIGNS ARE APPROXIMATE.
- SIZES ARE SHOWN ON SIGNING DETAILS SHEETS.
- UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:
 - A. REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN
 - B. INSTALL NEW SIGN OF TYPE SHOWN.
 - C. REMOVE EXISTING SIGN.

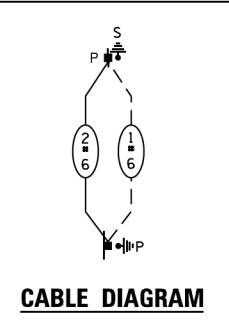


MATCH LINE STA. 339+50



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	QUANTITY	LED WATTAGE	% OPERATION	TOTAL WATTAGE
RADAR SPEED SIGN	1	15	100	15.0
			TOTAL =	15.0

ENERGY COSTS TO:
 KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, ILLINOIS 60175
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: 866-639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 3183143047



18' POST ON CONCRETE FOUNDATION, TYPE A APPROX STA. 345+50 (SEE SHEET XX FOR DETAILS)



FILE NAME: KH_int.plt_02.dgn



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

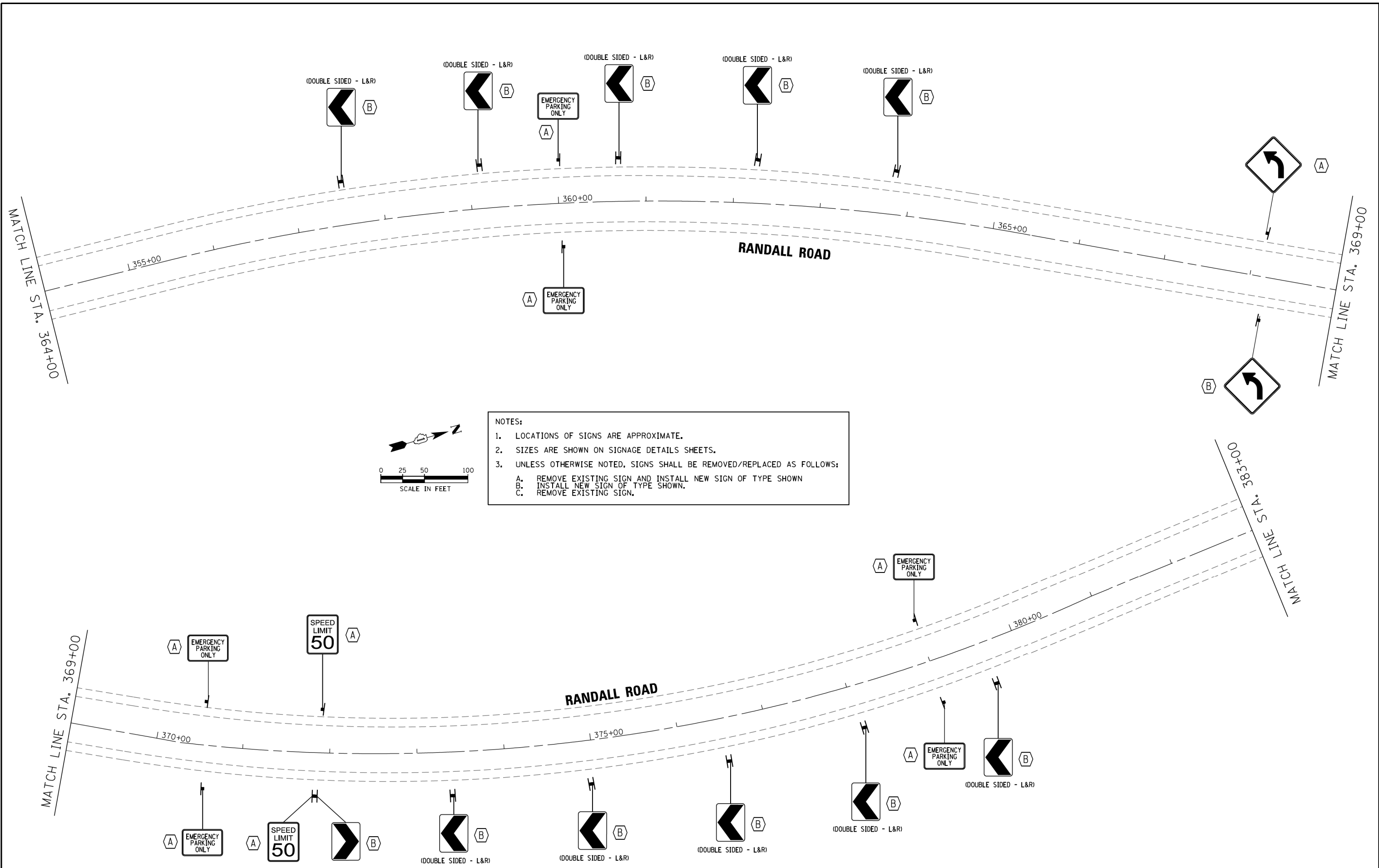
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN			
RANDALL ROAD FROM ORCHARD ROAD TO MAIN STREET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	167
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	SUBMITTED
	PLOTTED
	ALIGNMENT CHECKED
	NOTE BOOK NO.
	FILE NAME

DATE	
BY	
PROFILE	SUBMITTED
	GRADES CHECKED
	STRUCTURE NOTATIONS OK'D
	NOTE BOOK NO.
	FILE NAME



NOTES:

- LOCATIONS OF SIGNS ARE APPROXIMATE.
- SIZES ARE SHOWN ON SIGNAGE DETAILS SHEETS.
- UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:
 - A. REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN
 - B. INSTALL NEW SIGN OF TYPE SHOWN.
 - C. REMOVE EXISTING SIGN.



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED
PLOT SCALE = 100.0002' / 1" =		
PLOT DATE = 12/7/2017		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING PLAN			
RANDALL ROAD FROM ORCHARD ROAD TO MAIN STREET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00424-00-5P	KANE	172	168
CONTRACT NO.				-
ILLINOIS FED. AID PROJECT				

FILE NAME: KH_int.plt_03.dgn

PLAN	SUBMITTED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	CAD FILE NAME		

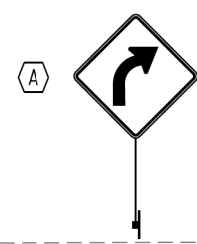
PROFILE	SUBMITTED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

MATCH LINE STA. 383+00

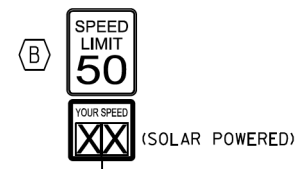
MATCH LINE STA. 398+00

MATCH LINE STA. 398+00

MATCH LINE STA. 413+00

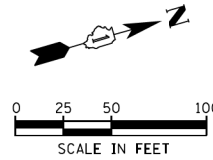


18' POST ON CONCRETE FOUNDATION, TYPE A APPROX STA. 390+50 (SEE SHEET XX FOR DETAILS)



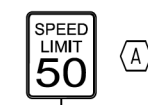
1 385+00 1 390+00 1 395+00

RANDALL ROAD



NOTES:

1. LOCATIONS OF SIGNS ARE APPROXIMATE.
2. SIZES ARE SHOWN ON SIGNAGE DETAILS SHEETS.
3. UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:
 - A. REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN
 - B. INSTALL NEW SIGN OF TYPE SHOWN.
 - C. REMOVE EXISTING SIGN.



1 400+00 1 405+00 1 410+00

RANDALL ROAD

FILE NAME: KH_int.plt_04.dgn



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
RANDALL ROAD FROM ORCHARD ROAD TO MAIN STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	169
CONTRACT NO.			-	

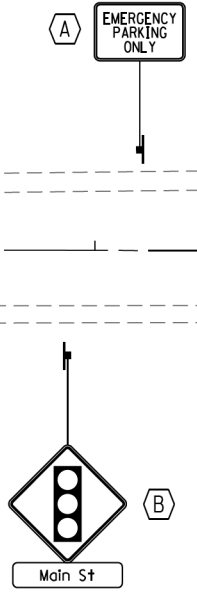
SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATION OK'D		
	NO.		

PROFILE	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATION OK'D		
	NO.		

MATCH LINE STA. 413+00



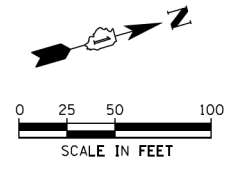
RANDALL ROAD

MAIN STREET

415+00

420+00

425+00



- NOTES:
- LOCATIONS OF SIGNS ARE APPROXIMATE.
 - SIZES ARE SHOWN ON SIGNAGE DETAILS SHEETS.
 - UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:
 - A. REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN
 - B. INSTALL NEW SIGN OF TYPE SHOWN.
 - C. REMOVE EXISTING SIGN.

FILE NAME: KH_int.plt_05.dgn

USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0002' / 1" =	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
RANDALL ROAD FROM ORCHARD ROAD TO MAIN STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	170
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

DATE	
BY	
SUBMITTED	
PLANNED	
ALIGNED	
CHECKED	
FILE NAME	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
SUBMITTED	
PLANNED	
GRADES	
CHECKED	
STRUCTURE	
NOTATIS	
PROFILE	
NOTE BOOK	
NO.	



R2-1
(36 x 48)
7 EACH



R2-1
(36 x 48)
1 EACH



R3-5R
(30 x 36)
1 EACH



R5-1101
(24 x 30)
1 EACH



R8-4
(48 x 36)
11 EACH



W1-2L
(48 x 48)
2 EACH



W1-2R
(48 x 48)
2 EACH



W1-8L
(36 x 48)
10 EACH



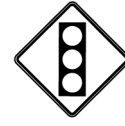
W1-8R
(36 x 48)
11 EACH



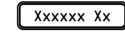
W2-2L
(48 x 48)
1 EACH



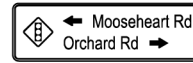
W2-2R
(48 x 48)
1 EACH



W3-3
(48 x 48)
1 EACH



W16-8P
(VARIES x 8)
Heritage Dr - 2
Main St - 1



D3-2
(78 x 30)
1 EACH

NOTES:

- ALL SIGN PANEL SIZES ARE IN INCHES.
- RADAR SPEED SIGNS SHALL BE INSTALLED PER THE DETAIL ON SHEET XX.
- ALL OTHER SIGNS SHALL BE INSTALLED PER IDOT STANDARDS.

SUMMARY OF QUANTITIES

ITEM	UNIT	QTY
SIGN PANEL - TYPE 1	SQ FT	18
SIGN PANEL - TYPE 2	SQ FT	608.5
REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	21
REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	3
METAL POST - TYPE A	FOOT	691
METAL POST - TYPE B	FOOT	291
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	140
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 1C	FOOT	459
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
RADAR SPEED SIGN	EACH	2

FILE NAME: KH_sht.dwg



USER NAME = bhenrichs	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 200.0004' / 1"	CHECKED	REVISED
PLOT DATE = 12/7/2017	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
RANDALL ROAD FROM ORCHARD ROAD TO MAIN STREET

SCALE: SHEET OF SHEETS STA. TO STA.

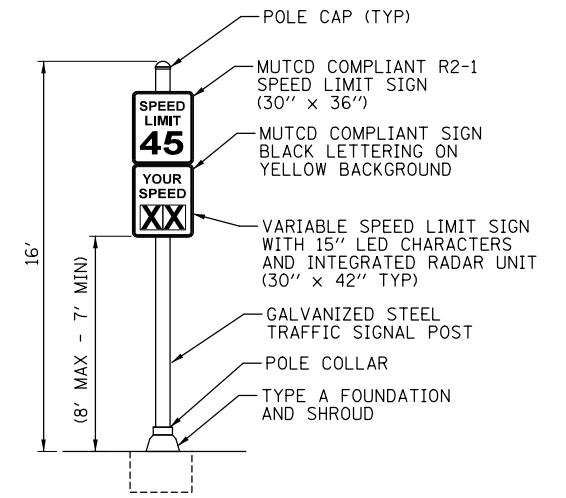
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	12-00424-00-SP	KANE	172	171
CONTRACT NO.			-	
ILLINOIS FED. AID PROJECT				

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO. _____	GRADES CHECKED		
	BLM. NOTED		
	STRUCTURE NOTATIONS OK'KO		
PLAN	SURVEYED	BY	DATE
NOTE BOOK NO. _____	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	ADJ. FILE NAME		

CHRISTOPHER B. BURKE ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-9503



TS SHT NO. 172



ASSEMBLY DETAIL
(NOT TO SCALE)

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
Detail sheet-01		DRAWN - FPB	REVISED -
	PLLOT SCALE = 2'	CHECKED - GMZ	REVISED -
	PLLOT DATE = 12/8/2017	DATE - 12/8/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 363 FAP 336	12-00424-00-SP	KANE	172	172
CONTRACT NO.			HSIP-0089(171)	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		