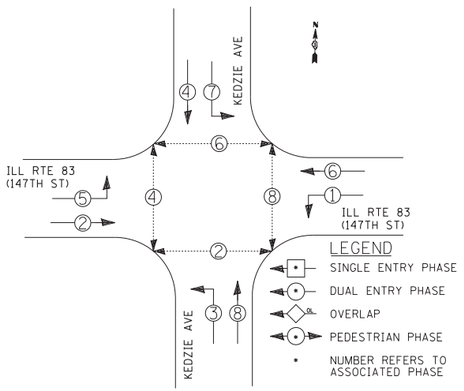
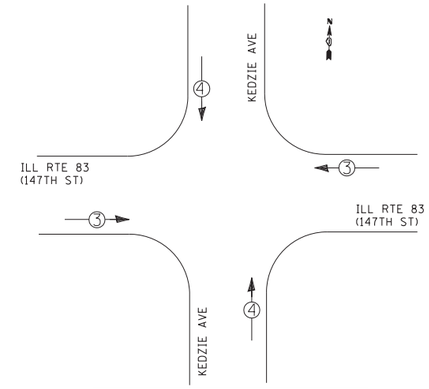
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↓

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	I.D.O.T.	MIDLOTHIAN
REMOVE SIGN PANEL - TYPE 1	SQFT	15	
REMOVE SIGN PANEL - TYPE 2	SQFT	25	
RELOCATE SIGN PANEL - TYPE 1	SQFT	15	
RELOCATE SIGN PANEL - TYPE 2	SQFT	25	
SERVICE INSTALLATION - POLE MOUNTED	EACH	1	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	771	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	46	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	71	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	433	
HANDHOLE	EACH	3	
HEAVY-DUTY HANDHOLE	EACH	4	
DOUBLE HANDHOLE	EACH	1	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1308	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1364	355
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1666	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1695	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5088	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	84	
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1106	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2	
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 46 FT. AND 30 FT.	EACH	1	
CONCRETE FOUNDATION, TYPE A	FOOT	8	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54	
DRILL EXISTING HANDHOLE	EACH	11	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	0	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6	
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	14	
INDUCTIVE LOOP DETECTOR	EACH	16	
PEDESTRIAN PUSH-BUTTON	EACH	8	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
REMOVE EXISTING HANDHOLE	EACH	7	
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6	
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	--	355
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, COMPLETE	EACH	--	2
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 46 FT. AND 34 FT.	EACH	1	

SCHEDULE OF QUANTITIES FOR ALTERNATE PAVEMENT

PAY ITEM	UNIT	ALT "A"	ALT "B"
DETECTOR LOOP, TYPE I	FOOT	--	661
PREFORMED DETECTOR LOOP	FOOT	727	66

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.50	136.0
(YELLOW)	16		25	0.25	100.0
(GREEN)	16		15	0.25	60.0
ARROW	16		12	0.10	19.2
PED. SIGNAL	8		25	1.00	200.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	0		25	0.05	0.0
FLASHER	0			0.05	0.0
ENERGY COSTS TO:				TOTAL =	615.2

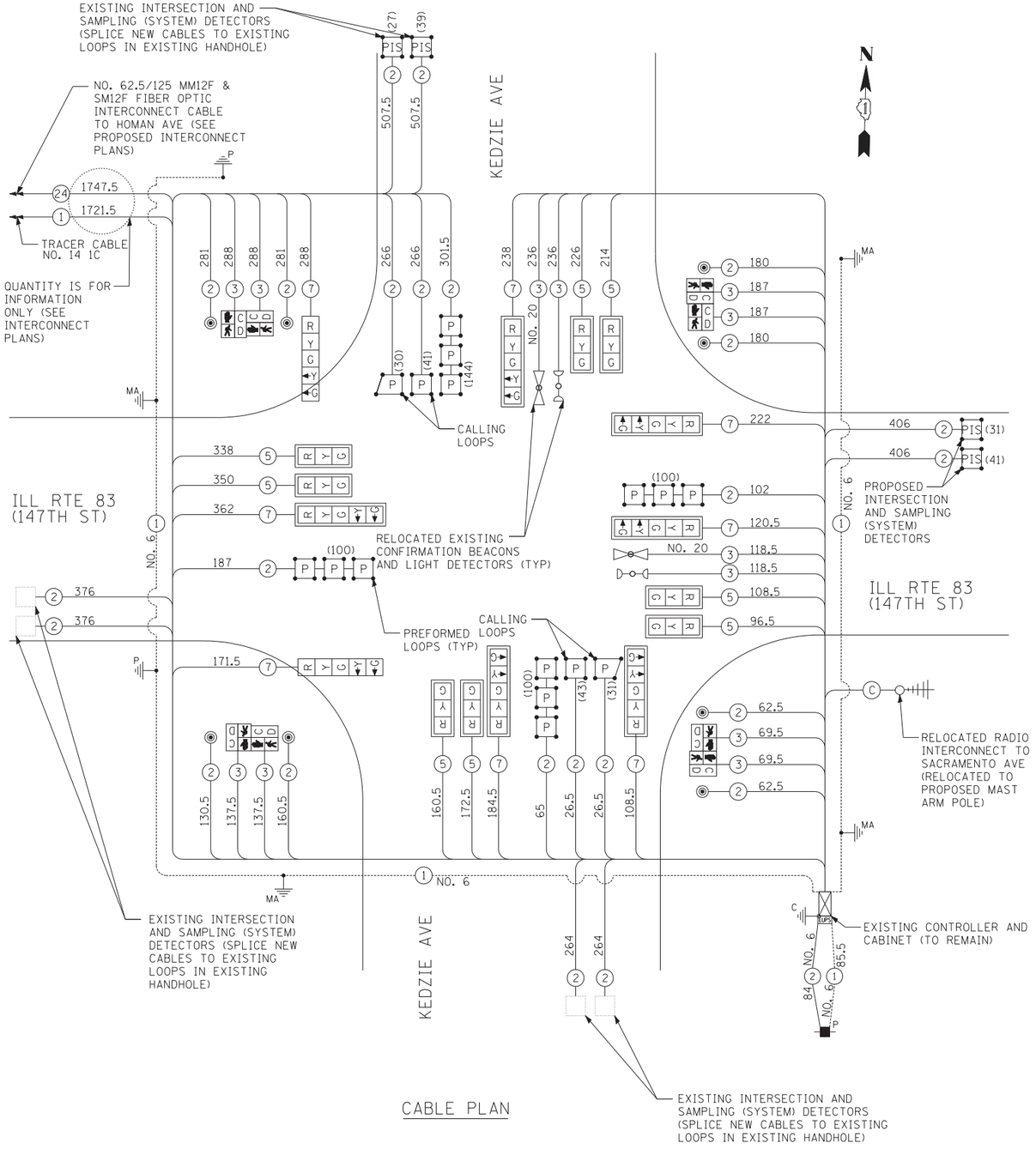
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: *KATHRYN SUGRUE *MAKE INITIAL CONTACT
PHONE: (708) 235-2337 WITH COMED NEW BUSINESS
COMPANY: COMED SERVICES AT (866) 639-3532

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

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

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



CABLE PLAN

NOTE:
PREFORMED LOOPS ARE SHOWN ON ALL PERMANENT PAVEMENT LOCATIONS. IF AN ALTERNATE PAVEMENT (HMA) IS SELECTED BY THE CONTRACTOR, THEN TYPE I LOOPS SHALL BE USED IN ALL LOCATIONS WHERE HMA PAVEMENT IS SELECTED.

TYLIN INTERNATIONAL	USER NAME =	DESIGNED - JDF	REVISED -
		DRAWN - JDF	REVISED -
	PLOT SCALE =	CHECKED - JPM	REVISED -
	PLOT DATE =	DATE - 5/23/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

147TH STREET PROJECT
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
ILL RTE 83 (147TH STREET) AND KEDZIE AVE

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEET | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XX	(0405-1 & 0506-2) R-1	COOK	577	363
		CONTRACT NO. 60M57		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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