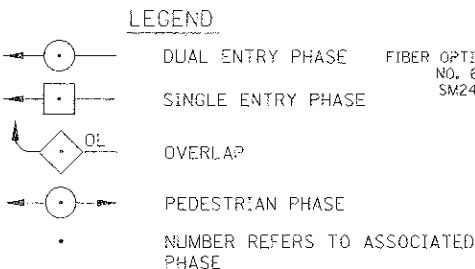
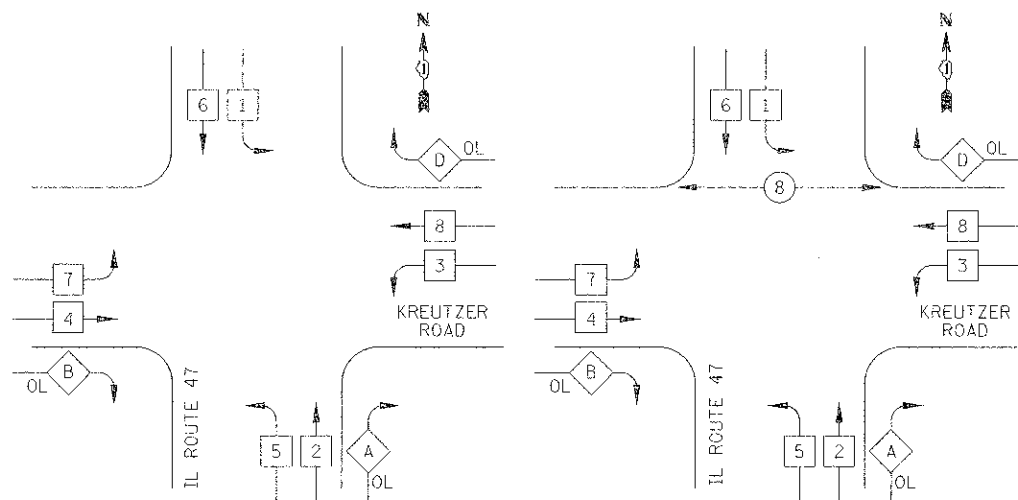


EXISTING CONTROLLER SEQUENCE

PROPOSED CONTROLLER SEQUENCE

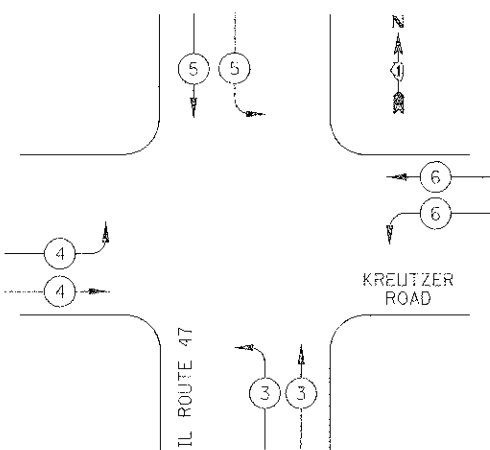


**RIGHT TURN OVERLAP PHASE DESIGNATION**

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

PHASE DESIGNATION DIAGRAM

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



**PROPOSED EMERGENCY VEHICLE PREEMPTORS**

EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	[Diagram]	[Diagram]	[Diagram]	[Diagram]

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	453
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	67
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	83
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	716
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	588
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1700
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3928
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1160
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2212
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	983
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	656
PREFORMED DETECTOR LOOP	FOOT	986
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	15
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	3
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	3
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	923
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1098

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

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	21		17	0.50	179
(YELLOW)	21		25	0.25	131
(GREEN)	21		15	0.25	79
ARROW	12		12	0.10	14
PED. SIGNALS	2		25	1.00	50
CONTROLLER	1		100	1.00	100
<b>TOTAL =</b>					<b>553</b>

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096  
CONTACT: LISA COCK  
PHONE: (815) 477-5204  
COMPANY: COM ED

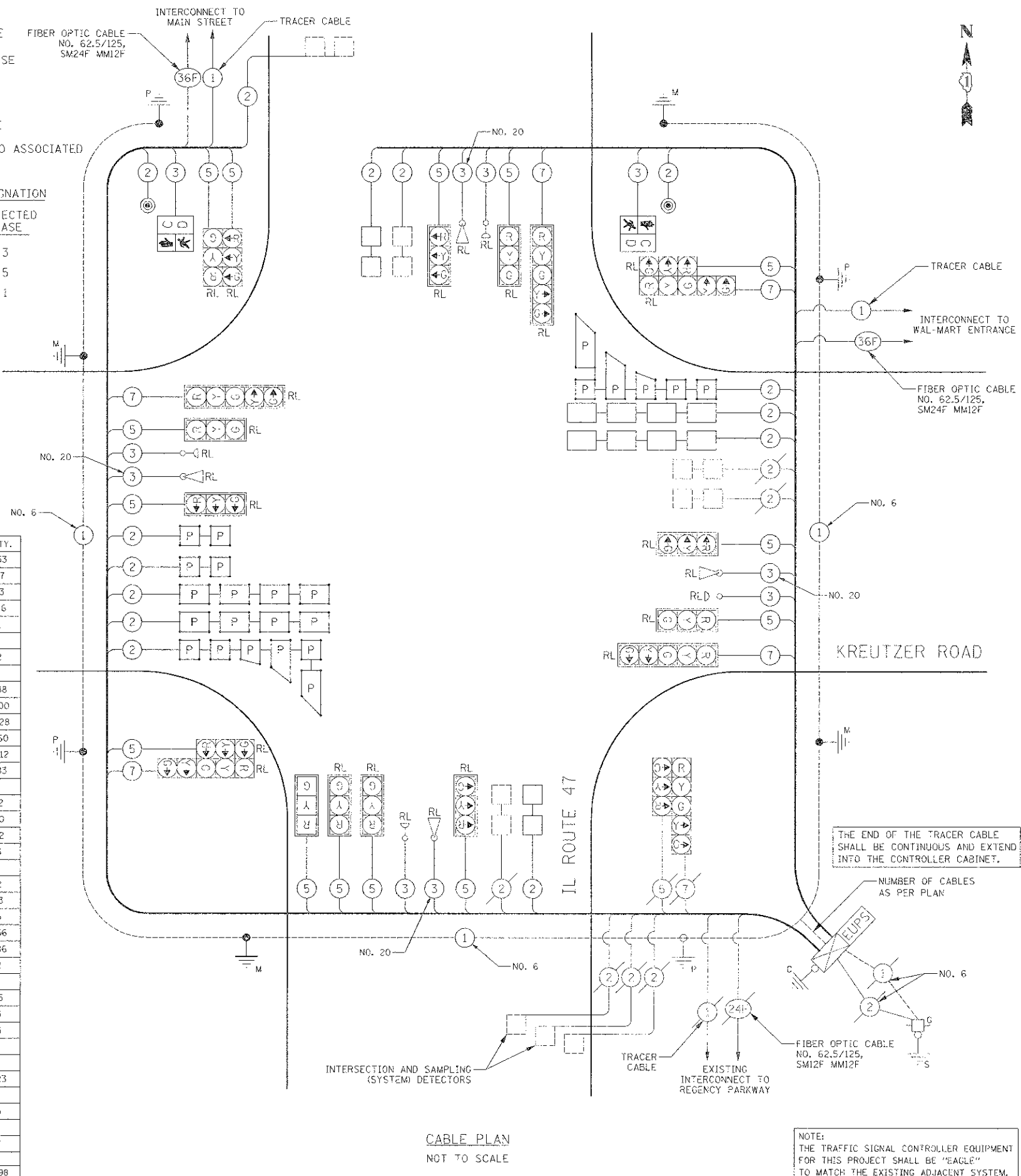
DESIGNED - BRD	REVISIONS -
DRAWN - BRD	REVISIONS -
CHECKED - JUE	REVISIONS -
DATE - 10/22/12	REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL ROUTE 47 AT KREUTZER ROAD

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

F.A.U. RTE. 4068	SECTION 07-G031-00-PV	COUNTY McHENRY	TOTAL SHEETS 167	SHEET NO. 73
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63743	



CABLE PLAN  
NOT TO SCALE

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