

### CABLE PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET		
RAILROAD CONTROL CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TELEPHONE CONNECTION		
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		
FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED		
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED		
GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)		
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		

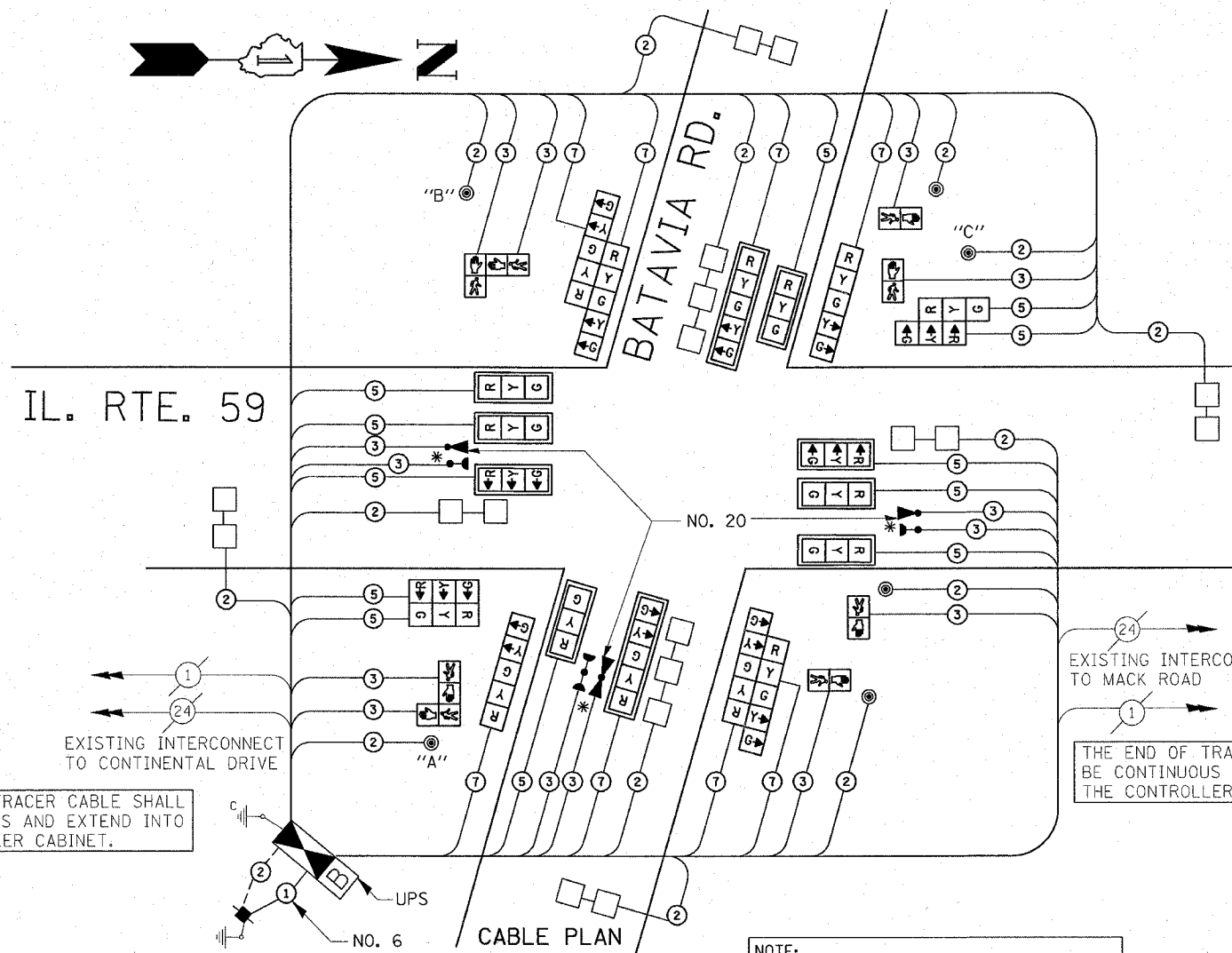
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE

12" (300mm) TRAFFIC SIGNAL SECTION  
12" (300mm) PEDESTRIAN SIGNAL SECTION

ILLUMINATED SIGN "NO LEFT TURN"  
ILLUMINATED SIGN "NO RIGHT TURN"

PUSHBUTTON DETECTOR  
DETECTOR LOOP  
PERFORMED DETECTOR LOOP  
MICROWAVE VEHICLE SENSOR  
VIDEO DETECTOR  
CLOSED CIRCUIT TV  
EMERGENCY VEHICLE SYSTEM DETECTOR  
CONFIRMATION BEACON  
UNINTERRUPTIBLE POWER SUPPLY

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center"><b>PROPOSED CABLE PLAN IL. RTE. 59 AT BATAVIA ROAD</b></p> <p>SCALE: _____ DATE: 11/19/2007</p> <p align="right">DRAWN BY: BCK DESIGNED BY: BCK CHECKED BY: DAD</p>



NOTE: THE PROPOSED TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT IS "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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

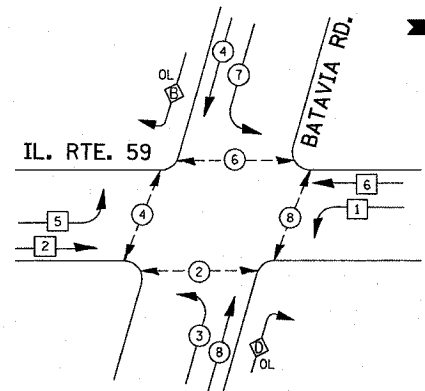
\* 2100 COST TO THE VILLAGE OF WARRENVILLE

### SCHEDULE OF QUANTITIES

ITEM	UNIT	QNTITY	ITEM	UNIT	QNTITY
SIGNAL PANEL - TYPE 1	SO. FT.	31.5	* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	618
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	730	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
CONDUIT IN PUSH, 2" DIA., GALVANIZED STEEL	FOOT	114	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	141	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
CONDUIT IN PUSH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	35	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	50	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	2
CONDUIT IN PUSH, 4" DIA., GALVANIZED STEEL	FOOT	367	CONCRETE FOUNDATION, TYPE A	FOOT	16
HANDHOLE	EACH	7	CONCRETE FOUNDATION, TYPE C	FOOT	4
HEAVY-DUTY HANDHOLE	EACH	4	CONCRETE FOUNDATION, TYPE E 24-INCH DIAMETER	FOOT	20
DOUBLE HANDHOLE	EACH	1	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	884	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1	INDUCTIVE LOOP DETECTOR	EACH	8
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1877	DETECTOR LOOP, TYPE I	FOOT	552
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1261	* LIGHT DETECTOR	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1840	* LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2563	SIGNAL HEAD, L. E. D., 1-FACE, 5-SECT., BRKTED. MNTED.	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1763	SIGNAL HEAD, L. E. D., 1-FACE, 5-SECT., MAST ARM MNTED.	EACH	2
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2099	SIGNAL HEAD, L. E. D., 1-FACE, 3-SECT., MAST ARM MNTED.	EACH	8
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	25	SIGNAL HEAD, L. E. D., 2-FACE, 5-SECT., BRKTED. MNTED.	EACH	2
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	SIGNAL HEAD, L. E. D., 2-FACE, 3-SECT., BRKTED. MNTED.	EACH	2
			PEDESTRIAN SIGNAL HEADS, L. E. D., 1-FACE BRKTED. MNTED.	EACH	4
			PEDESTRIAN SIGNAL HEADS, L. E. D., 2-FACE BRKTED. MNTED.	EACH	2
			PUSH-BUTTONS	EACH	6
			SERVICE INSTALLATION, POLE MNTED.	EACH	1
			REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
			UNINTERRUPTIBLE POWER SUPPLY	EACH	1

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
C - UPS	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' H-2- (6m H-0.6m)
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
E - M. ARM POLE		CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
		24" (600mm)	10 (3.0)	ELECTRIC SERVICE	13.5 (4.1)
		30" (750mm)	15 (4.6)	GROUND CABLE	1 (0.5)
		36" (900mm)	15 (4.6)		

### CONTROLLER SEQUENCE

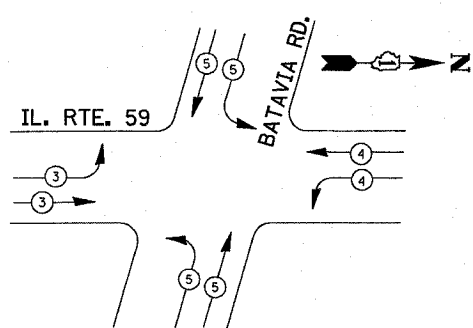


**LEGEND**  
 DUAL ENTRY PHASE  
 SINGLE ENTRY PHASE  
 OVERLAP  
 PEDESTRIAN PHASE  
 \* NUMBER REFERS TO ASSOCIATED PHASE

### PHASE DESIGNATION DIAGRAM

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

### EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

c:\projects\tr-ef\c\11598\batavia.dgn  
 11/19/2007

11/19/2007  
 c:\projects\tr-ef\c\11598\batavia.dgn  
 kanthaphixaybc