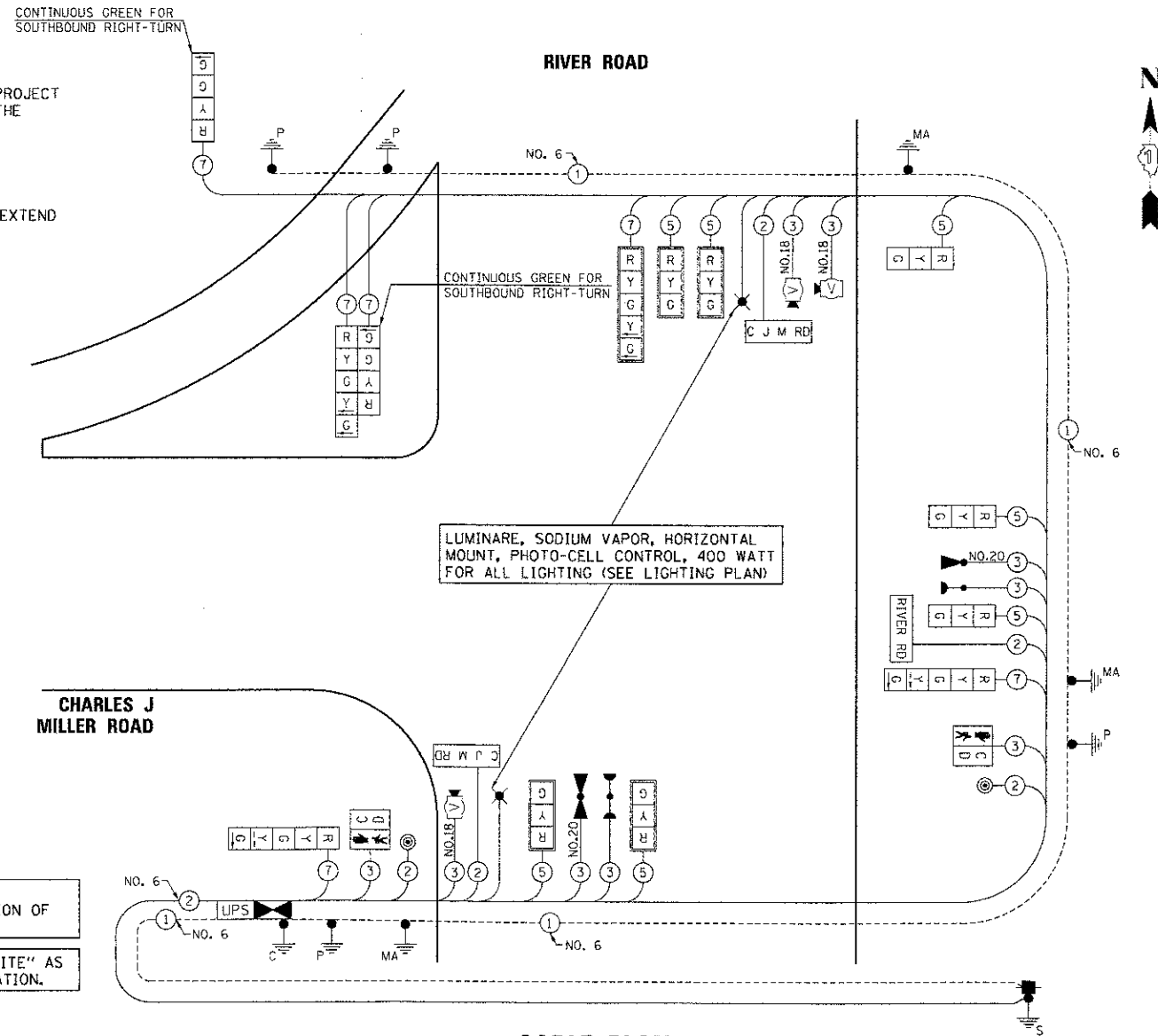


NOTE:
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE TOMAR OR AN APPROVED EQUAL AS REQUIRED BY THE MCHENRY TOWNSHIP FIRE DEPARTMENT.

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



THE VIDEO DETECTION EQUIPMENT FOR THIS PROJECT SHALL BE AUTOSCOPE AS REQUIRED BY THE MCHENRY COUNTY DIVISION OF TRANSPORTATION.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL BE "ECONOLITE" AS REQUIRED BY THE MCHENRY COUNTY DIVISION OF TRANSPORTATION.

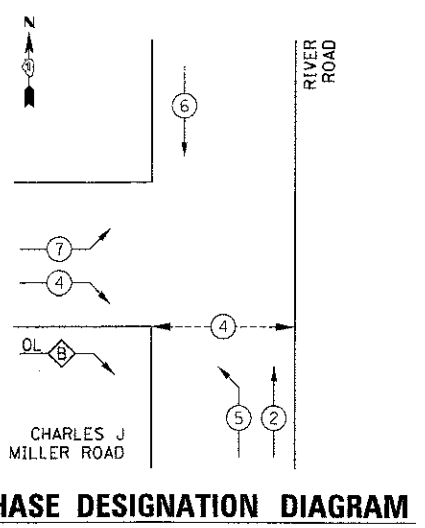
CABLE PLAN

M.C.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW (NORMAL)	8		12	0.10	9.6
ARROW (SB RIGHT)	2		12	1.00	24
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
UPS	1		25	1.00	25
VIDEO SYSTEM	1		15	1.00	15
LED ST. NAME SIGN	3		64	0.50	96
				TOTAL =	541.6

ENERGY COSTS TO: MCHENRY COUNTY DIVISION OF TRANSPORTATION
16111 NELSON ROAD
WOODSTOCK, IL 60098

ENERGY SUPPLY CONTACT: MIKE LENOX
PHONE: 815-420-2869
COMPANY: COMMONWEALTH EDISON

CONTROLLER SEQUENCE



OVERLAP PHASE	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

CONTROLLER SEQUENCE LEGEND

- ← ⊙ → DUAL ENTRY PHASE
- ← ⊙ SINGLE ENTRY PHASE
- ← ⊙ OL OVERLAP
- * NUMBER REFERRING TO ASSOCIATED PHASE
- ← ⊙ → PEDESTRIAN PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS

PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	→

SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	RIVER ROAD
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	102
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2"	FOOT	172
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	309
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	835
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	557
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,639
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,869
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 18 3C	FOOT	729
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	126
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR NO. 6 1C	FOOT	726
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 28 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
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	36
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
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, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	5
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
ILLUMINATED SIGN, LED	EACH	3
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	326
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	L SUM	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 DATE PLOTTED: 7/23/2012 10:27:13 AM
 FILE NAME: 090071-sig-03c-river.dgn
 PLOT DRIVER: pldt.plt
 PEN TABLE: Standard-Trans.tbl



HRGreen.com
 3100 Professional Design Firm
 # 284-01922

USER NAME = jstana	DESIGNED -	REVISED -
FILE NAME = 090071-sig-03c-river.dgn	DRAWN -	REVISED -
PLDT SCALE = 1" = 20'	CHECKED -	REVISED -
PLDT DATE = 7/23/2012	DATE = 7/23/12	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

CABLE AND PHASE DESIGNATION DIAGRAM CHARLES J. MILLER ROAD AND RIVER ROAD

SCALE: 1" = 20' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-00-PW	MCHENRY	252	107

CONTRACT NO. 63633
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT