CIVIL ENGINEERING CONSULTANTS
RWA
Regina Webster & Associates, Inc.
8619 W. Bryn Mawr Ave., Suite 602
Chicago, IL 60631-3551
773-283-2600 Fax: 773-283-2602
www.RWAengineers.com

SCHEDULE OF QUANTITIES

	QUANTITY	UNIT	ITEM
	90	SQ FT	SIGN PANEL - TYPE 1
	1	EACH	SERVICE INSTALLATION - GROUND MOUNTED
	1678	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
	79	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
	45	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.
	1249	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
	9	EACH	HANDHOLE
	4	EACH	HEAVY-DUTY HANDHOLE
	5	EACH	DOUBLE HANDHOLE
	1	EACH	TRANSCEIVER - FIBER OPTIC
	3689	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
	6641	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
	5938	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
	3769	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
	8993	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
	281	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
	1525	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
	20	FOOT	CONCRETE FOUNDATION, TYPE A
	4	FOOT	CONCRETE FOUNDATION, TYPE C
	48	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
	21	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
	16	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
	8	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
	24	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
	22	EACH	INDUCTIVE LOOP DETECTOR
	329	FOOT	DETECTOR LOOP, TYPE I
	797	FOOT	PREFORMED DETECTOR LOOP
*	4	EACH	LIGHT DETECTOR
*	1	EACH	LIGHT DETECTOR AMPLIFIER
	12	EACH	PEDESTRIAN PUSH-BUTTON
	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
	15	EACH	REMOVE EXISTING HANDHOLE
	9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
*	1549	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
	1	EACH	MASTER CONTROLLER (SPECIAL)
	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
	1	EACH	FULL-ACTUATED CONTROLLER AND SUPER R CABINET, TYPE V, SPECIAL
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 50 FT.
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 16 FT. AND 54 FT.
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 54 FT.
	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 16 FT. AND 60 FT.
*	4	EACH	ILLUMINATED STREET NAME SIGN

* 100% COST TO THE CITY OF NAPERVILLE

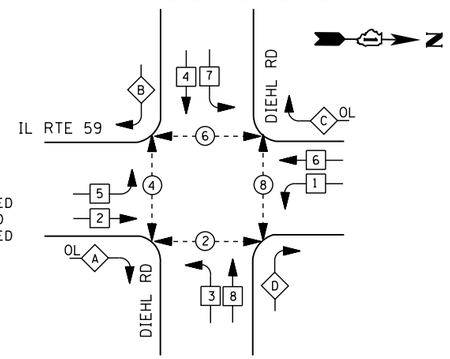
LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

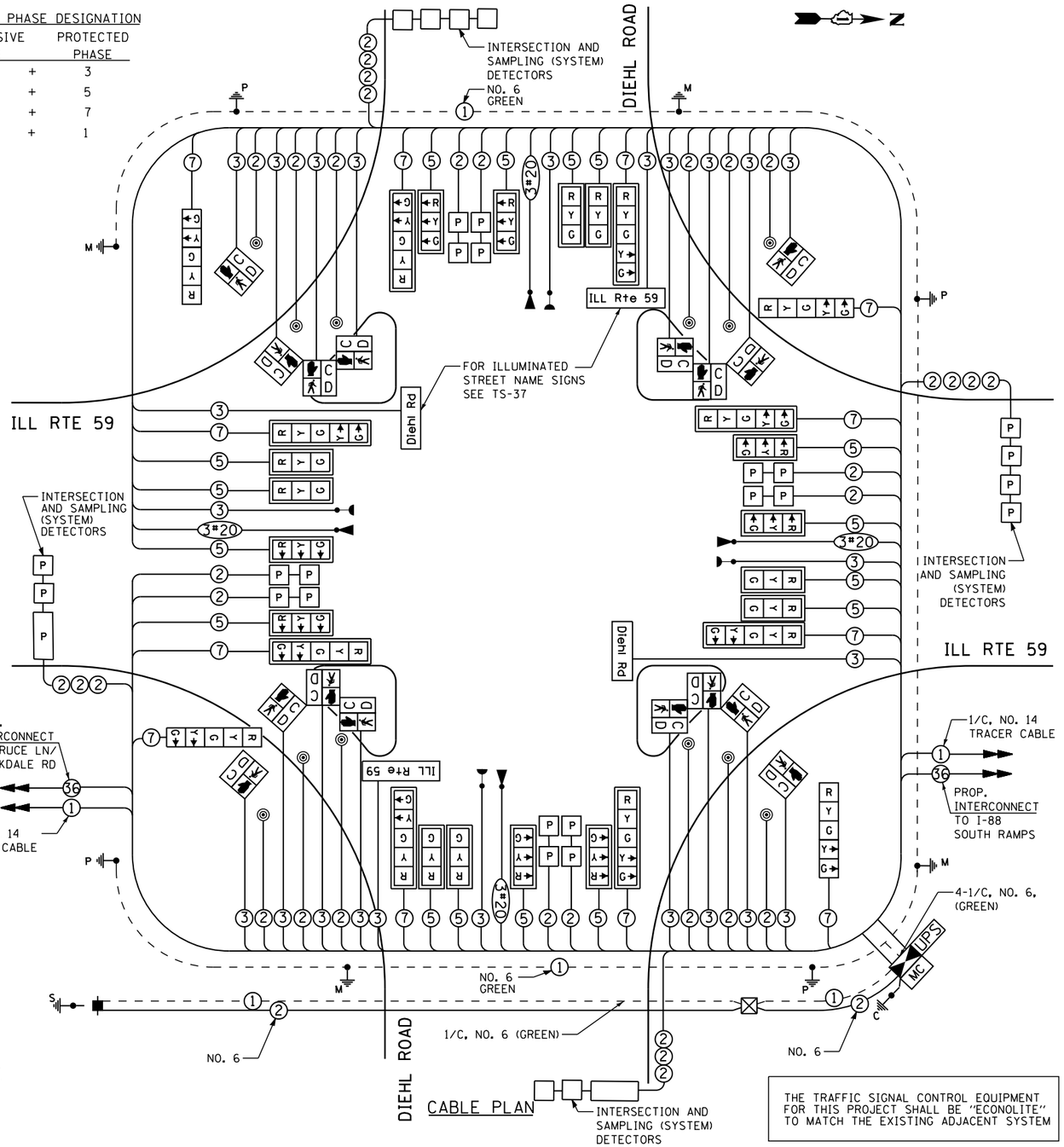
RIGHT TURN OVERLAP PHASE DESIGNATION

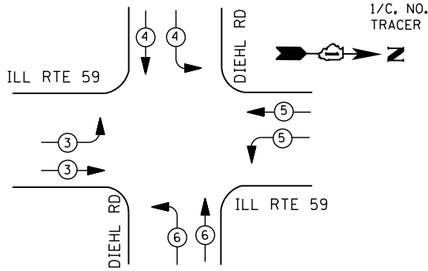
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7
D	=	8	+	1

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

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

TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	28	135	17	0.50	238
(YELLOW)	28	135	25	0.25	175
(GREEN)	28	135	15	0.25	105
ARROW	24	135	12	0.10	28
PED. SIGNAL	16	90	25	1.00	400
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	4	--	90	0.50	180
				TOTAL =	1226

ENERGY COSTS- BILLED TO: IDOT - DISTRICT 1
201 W. CENTER CT.
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT BRIAN CHAMBERLAIN
PHONE NAPERVILLE ELECTRIC DEPT.
630-420-6653

FOR COMBINATION POLE LIGHTING AND WIRING SEE ROADWAY LIGHTING PLANS

ALL LOOPS WITHIN LIMITS OF PCC ROADWAY RECONSTRUCTION SHALL BE PREFORMED TYPE

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN 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, MEDIAN, 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.

FILE NAME = K:\Projects\090059\Design\Sheet Files\6799rwa59cabDL.dgn	USER NAME = $USER$	DESIGNED - DW	REVISED -
	PLOT SCALE = $SCALE$	DRAWN - JDH	REVISED -
	PLOT DATE = 12/6/2012	CHECKED - KMM	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 59 AND DIEHL ROAD - CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(112 & 113) WRS-6	DUPAGE	734	406
	TS-26	CONTRACT NO. 60R31		
	ILLINOIS FED. AID PROJECT			