## CONTRACT NO.66534

## COUNTY TOTAL SHEET SHEETS NO. SECTION 118 N IROQUOIS 30 15 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

	BILL OF MATERIALS		
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
80500105	SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	1609
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	421
81102600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC	FOOT	40
81400400	CONCRETE HANDHOLE	EACH	8
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1870
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	480
82103900	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, CONTROL, 250 WATT	EACH	4
82500605	LIGHTING CONTROLLER PHOTOCELL RELAY	EACH	1
83800650	BREAKAWAY DEVICE, COUPLING, SS SCREEN	EACH	8
85000500	MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION	EACH	1
85800100	FLASHER CONTROLLER	EACH	1
87200400	SPAN WIRE	FOOT	175
87200500	TETHER WIRE	FOOT	175
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2254
87302245	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	210
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	24
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2036
89502380	REMOVE EXISTING HANDHOLE	EACH	1
89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	4
X0322189	REMOVE EXISTING LIGHTING SYSTEM NO SALVAGE	L SUM	2
X0323148	REMOVE EXISTING SERVICE INSTALLATION TYPE A	EACH	1
X8801100	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED	EACH	4
X8801505	SIGNAL HEAD ,POLYCARBONATE, LED, 4-FACE, 1-SECTION, SPAN WIRE MOUNTED	EACH	1
#	STEEL STRAIN POLE 45 FEET	EACH	2

<b>K</b>	N @
US 45	US 52
II. 49	LEGEND    FLASHING BEACON (YELLOW)  CONCRETE MANHOLE
CABLE PLAN	PVC CONDUIT PUSHED OR IN TRENCH OF THE SIZE AND LENGTH AS SPECI ELECTRIC SERVICE & LIGHTING CONTROLLER (PHOTOCELL RELAY) AND FLASHER CONTROLLER HOUSED TOGETHER

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	ICCINOIS DEPARTM	ENT OF TRANSFORTATION
		LIGHTING	<b>DETAIL SHEET</b>
			Dairtia Oitaai
		SCALE: VERT.	DRAWN BY
		DATE	CHECKED BY

## GENERAL NOTES

- 1 THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- 2 A 1/4 " DIAMETER CONTINOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE
- 3 THE DEPARTMENT OF TRANSPORTATION (815)434-8506 SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE TURNING ON OF THE CONTROLLER UNIT.
- 4 ALL CONDUIT PUSHED SHALL BE PVC ... ALL CONDUIT IN TRENCH SHALL BE PVC. ALL ADAPTORS AND REDUCERS SHALL BE INCLUDED IN THE CONDUIT PAY ITEMS.
- 5 THE PROPOSED FLASHING BEACON HEADS SHALL BE MOUNTED ON PROPOSED WOOD POSTS SUPPORTING STOP AHEAD SIGNS AS SHOWN IN THE PLANS.
- 6 ALL FLASHING BEACON HEADS SHALL BE 12".
- 7 THE EXISTING POST MOUNTED FLASHING BEACON SYSTEM SHALL NOT BE REMOVED UNTIL THE PROPOSED SPAN WIRE AND POST MOUNTED FLASHING BEACON SYSTEM ARE IN PLACE.
- 8 THE FLASHER CABINET SHALL BE MOUNTED ON THE STRAIN POLE.
- 9 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
- 10 NO ADDITIONAL COMPANSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- 11 ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
- 12 THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY, INCIDENTAL TO THE
- 13 THE CONTRACTOR WILL CONTACT THE EASTERN ILLINOIS ELECTRIC COMPANY TO CANCEL THE EXISTING SERVICE AND REMOVE THE EXISTING LIGHT POLES.
- 14 ALL PROPOSED MAST ARMS SHALL BE MOUNTED SUCH THAT THEY ARE A MINIMUM OF 10 FOOT AWAY FROM ANY HIGH POWER LINES.

LIGHTING	CONTROLLER	CIRCUIT SCHEMATIC
1B		2B 2A

ELECTRICAL LOAD CHART

WATTAGE

EACH

BURN TIME

50

NUMBER

4

COMPONENT

YELLOW

. 1	IGHT PO	LE
IDENTIFI	CATION	<b>NUMBERS</b>