

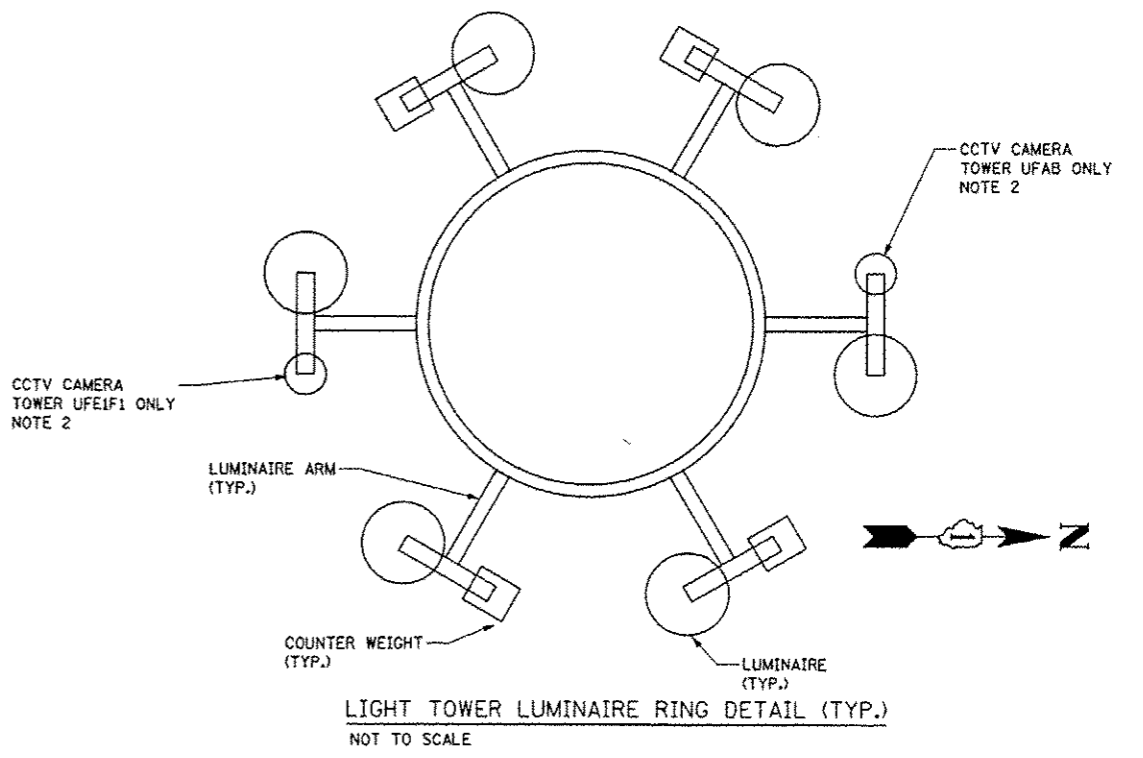
**IDOT LIGHTING CONTROLLER "UF" SINGLE LINE DIAGRAM**  
NOT TO SCALE

**IDOT BILL OF MATERIAL**

DESIGNATION	UNIT OF MEASURE	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	481
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1653
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	618
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4
COMMUNICATIONS VAULT	EACH	4
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	508
UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	3241
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	640
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2560
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	13
LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT	EACH	24
LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE, WITH SCADA	EACH	1
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 12 FT. MAST ARM	EACH	13
LIGHT TOWER, 90 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH	4
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	108
LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	64
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	13
FIBER OPTIC CABLE ON MESSENGER, NO. 62.5/125, 4F	FOOT	1181
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	270
CLOSED CIRCUIT TELEVISION DOME CAMERA HIGH MAST TOWER INSTALLATION	EACH	2
TEMPORARY WOOD POLE, 60 FT., CLASS 4, INSTALL ONLY	EACH	4
CLOSED CIRCUIT TELEVISION DOME CAMERA	EACH	2
LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	9
FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	400
FIBER OPTIC CABLE, 6 FIBERS, SINGLE MODE	FOOT	401
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	13
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	5
UNIT DUCT, 600V, 5-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1385
CLOSED CIRCUIT TELEVISION CABINET	EACH	2
REMOVE TEMPORARY WOOD POLE	EACH	4
CLOSED CIRCUIT TELEVISION EQUIPMENT, FIBER OPTIC DISTRIBUTION	EACH	4
MODIFICATION OF EXISTING VIDEO DISTRIBUTION SYSTEM	L SUM	1
CLOSED CIRCUIT TELEVISION VIDEO CODEC	EACH	4
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	330

**PANEL SCHEDULE AND LOAD TABULATION LIGHTING CONTROLLER UF 240/480VAC, 1-PHASE, 3-WIRE**  
MAIN BREAKER: 175A

CIRCUIT	BREAKER TRIP AMPS	AMPS	
		RED	BLACK
A	70-1P	10.32	
B	70-1P		10.32
C	70-1P	20.64	
D	70-1P		20.64
E	70-1P	12.15	
F	70-1P		13.98
M	70-1P	5.49	
N	70-1P		7.32
O	70-1P	7.32	
P	70-1P		5.49
<b>TOTAL</b>		<b>56.84</b>	



**LIGHT TOWER LUMINAIRE RING DETAIL (TYP.)**  
NOT TO SCALE

- NOTES:**
- FOR SYMBOL LIST AND GENERAL ELECTRICAL NOTES, SEE SHEET LT-01.
  - A COUNTER WEIGHT SHALL BE PROVIDED ON THE ARM WHERE A CCTV CAMERA IS NOT SHOWN.