



**PROPOSED SINGLE LINE DIAGRAM
LIGHTING CONTROLLER "M"**

**PROPOSED SINGLE LINE DIAGRAM
OF ARMY TRAIL ROAD LIGHTING CONNECTED TO EXISTING CONTROLLER**

LOAD TABLE PROPOSED LIGHTING CONTROLLER "M" (@ 240 VOLTS)					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	10	2400	B	12	2880
C	12	2880	D	10	2400
E	12	2880	F	10	2400
G	10	2400	H	10	2400
TOTAL	44	10560	TOTAL	42	10080

TOTAL LOAD ON CONTROLLER (@240 V): **86 AMP**
 TOTAL LOAD ON CONTROLLER (@480 V): **43 AMP**

LOAD TABLE EXISTING LIGHTING CONTROLLER LOCATED AT ILL 53 RTE. AND I-355 EXIT RAMP (SB) (@ 240 VOLTS)					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	EXISTING		B	EXISTING	
C	EXISTING		D	EXISTING	
E	16	3840	F	14.4	3456
G	15.1	3624	H	15.1	3624
I	EXISTING		J	EXISTING	
K	EXISTING		L	EXISTING	
M	EXISTING		N	EXISTING	
O	EXISTING		P	EXISTING	
TOTAL	-	-	TOTAL	-	-

- LEGEND**
- PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (BLACK PHASE)
 - PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (RED PHASE)
 - PROPOSED LIGHTING CONTROLLER CABINET "M". SINGLE DOOR, CONSOLE TYPE, VILLAGE OF ADDISON MAINTAINED, 100A, 240/480V, 1Ø
 - PROPOSED ELECTRIC SERVICE TRANSFORMER BY COMED ON EXISTING OR PROPOSED UTILITY WOOD POLE
 - ELECTRIC GROUND ROD

GA GANDHI AND ASSOCIATES, INC.
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 CHICAGO, ILLINOIS 60631 TEL: (773) 774-5910

FILE NAME =	USER NAME = _GAL	DESIGNED - PKG	REVISED -
#FILEL\$		DRAWN - MAA, SHM	REVISED -
	PLOT SCALE = 1"=50'	CHECKED - PKG	REVISED -
	PLOT DATE = 3/15/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED SINGLE LINE DIAGRAM LIGHTING CONTROLLER "M"			
SCALE: 1"= 50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	563
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 60477