GENERAL ELECTRICAL NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST CODES, STANDARDS NEC, IES, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, AND THE VILLAGE OF MORTON GROVE ORDINANCES, UNLESS SPECIFICALLY NOTED IN THE CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) 72 HOURS PRIOR TO EXCAVATION FOR UNDERGROUND UTILITY LOCATIONS. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL THE ABOVE AND BELOW GROUND UTILITIES, EVEN THOUGH THEY MAY NOT APPEAR ON THE PLANS. ANY DAMAGE DONE TO THE EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- 4. CONSULT AND COORDINATE WITH ALL TRADES AND AUTHORITIES INVOLVED TO AVOID INTERFERENCE WITH EXISTING AND NEW UNDERGROUND UTILITIES.
- 5. ALL CONDUIT, EQUIPMENT AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
- 6. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTIONS IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.
- 7. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY, UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT.
- 9. CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30 INCHES BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCTS AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE VILLAGE. COORDINATE RACEWAY DEPTHS WITH THE DETAILS AND THE ENGINEER.
- 10. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK AND COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION.
- 11. ALL EXISTING AREAS THAT ARE DAMAGED AS PART OF THIS WORK, INCLUDING BUT NOT LIMITED TO FENCING, CURB AND GUTTER, SIDEWALKS AND WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS, SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.
- 12. ALL CONDUCTORS SHALL RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES. SPLICING OF CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE LIGHTING UNITS UNLESS NOTED OTHERWISE.
- 13. GROUNDING CONNECTIONS AT ALL EQUIPMENT FOUNDATIONS SHALL BE EXOTHERMICALLY WELDED, UNLESS NOTED OTHERWISE AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
- 14. ALL EXISTING LIGHTING UNITS SHALL REMAIN OPERATIONAL FOR NORMAL NIGHT TIME HOURS UNTIL THE NEW SYSTEM HAS BEEN INSTALLED, TESTED AND ENERGIZED.
- 15. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH THE CONSTRUCTION STAGING PLANS.
- 16. TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THEY SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRES. THE CONTRACTOR WILL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED, ENERGIZED, TESTED AND ACCEPTED BY THE ENGINEER.
- 17. NO EQUIPMENT OR MATERIAL SHALL BE DELIVERED TO THE JOB SITE PRIOR TO THE APPROVAL AND INSPECTION OF THE ENGINEER. ANY EQUIPMENT OR MATERIAL DELIVERED TO THE JOB SITE PRIOR TO APPROVAL AND INSPECTION SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
- 18. PROPOSED ROADWAY LIGHT POLES SHALL HAVE A SETBACK OF 2'-O" FROM THE BACK OF CURB TO THE FACE OF LIGHT POLES, UNLESS NOTED OTHERWISE ON THE PLANS OR DIRECTED BY THE ENGINEER.
- 19. ALL CABLES SHALL BE TAGGED WITH INFORMATION PERTAINING TO THE DIRECTION THAT THE CABLE GOES AND THE VOLTAGE OF THE CIRCUIT IN EACH LIGHT BASE OR HANDHOLE. THE CONTRACTOR SHALL PLACE AN ACCURATE LAMINATED PLAN IN THE CONTROLLER. THE PLAN SHALL SHOW THE WIRING ARRANGEMENT (COLOR CODING IF APPLICABLE), VOLTAGE OF EACH LIGHTING CIRCUIT, WATTAGE OF EACH LAMP AND ANY OTHER PERTINENT INFORMATION THAT WOULD ASSIST IN THE TROUBLESHOOTING OF THE LIGHTING CIRCUITS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF UNIT DUCT PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.

E.A.U.	SECTION	1	COUNTY		SHEETS	SHEET NO.
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CONTRACT # 83971

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ROADWAY ELECTRICAL SYMBOL				
SYMBOL	DESCRIPTION			
O—XAI	PROPOSED LIGHTING UNIT: XA1- "X" = CONTROLLER "A" = CIRCUIT NUMBER "1" = POLE NUMBER			
○————————————————————————————————————	TYPE A, VILLAGE OF MORTON GROVE STANDARD DECORATIVE LICHTING UNIT: FLUTED TAPERED STEEL POLE, 250W HPS ORNAMENTAL LUMINAIRE ON 6'-0" CROSS-ARM AT 32'-6" M.H.; 20A, 120V FESTOON RECEPTACLE			
$\circ\!\!-\!$	I.D.O.T. STANDARD LIGHTING UNIT: 47'-6" M.H., 15" TRUSS ARM WITH 250W HPS LUMINAIRE M-C-III DISTRIBUTION			
0—(E)	EXISTING LIGHTING UNIT TO REMAIN			
O-E	EXISTING COMBINATION LIGHTING AND TRAFFIC POLE			
0—(R)	EXISTING LIGHTING UNIT TO BE REMOVED			
	RACEWAY OR DIRECT BURIAL CABLE UNDERGROUND WITHOUT ENCASEMENT			
E	EXISTING UNDERGROUND CONDUIT TO REMAIN			
	EXISTING UNDERGROUND CONDUIT TO BE REMOVED			
	CONCEALED CONDUIT UNDERGROUND, TRENCHED OR PUSHED			
\bowtie	EXISTING LIGHTING CONTROLLER			
	PROPOSED UTILITY SERVICE CONNECTION, POLE MOUNTED			
ф	ELECTRIC UTILITY POLE			
11	ELECTRIC GROUND ROD			
•	GROUND LUG			
	FUSE			

		ABBREVIATIONS			
	SYMBOL	DESCRIPTION			
	Α	AMPERE			
	AC	ALTERNATING CURRENT			
	AFG	ABOVE FINISHED GRADE			
	AWG	AMERICAN WIRE GAUGE			
	С	CONDUIT			
	СВ	CIRCUIT BREAKER			
	C.E.CO.	COMMONWEALTH EDISON COMPANY			
	CKT	CIRCUIT			
	CL	CLEARANCE			
	CP	CONTROL PANEL			
	DIA.	DIAMETER			
-	FT	FEET OR FOOT			
	GFCI	GROUND FAULT CIRCUIT INTERRUPTER			
	GND	GROUND			
	HPS	HIGH PRESSURE SODIUM			
	I.D.	INSIDE DIAMETER			
	I.D.O.T.	ILLINOIS DEPARTMENT OF TRANSPORTATION			
	KVA	KILOVOLT-AMPERE			
	. KW	KILOWATTS			
	LTG	LIGHTING			
	LT	LEFT			
	MA	MAST ARM			
	MFG	MANUFACTURING			
	M.H.	MOUNTING HEIGHT			
	MIN.	MINIMUM			
	N.E.C.	NATIONAL ELECTRICAL CODE			
	NO./ #	NUMBER			
	N.T.S.	NOT TO SCALE			
	0.D.	OUTSIDE DIAMETER			
	Р	POLE			
	PH	PHASE			
	PSI	POUNDS PER SQUARE INCH			
	PVC	POLYVINYL CHLORIDE			
	RGSC	RIGID GALVANIZED STEEL CONDUIT			
	RT	RIGHT			
	S.S.	STAINLESS STEEL			
	STA.	STATION			
	STD	STANDARD			
	TYP.	TYPICAL			
	U.L.	UNDERWRITER'S LABORATORIES, INC.			
	U.N.O.	UNLESS NOTED OTHERWISE			
	V	VOLTAGE			
	w	WATT OR WIRE			
	**	MALL ON WIRE			

EG-1

	REVISIONS DATE				PARTMENT OF T	
		DATE	IL	. RTE 58	(DEMPSTER ST)	IMPROVEMENTS
-				ELE	CTRICAL SYME	BOL LIST,
			ELECTRICAL SYMBOL LIST, ABBREVIATIONS & GENERAL NOTES			
			SCALE:	N.T.S.		DRAWN BY: RPK
			DATE:	10-16-09		CHECKED BY: KMY
				.77	McDonough As	sociates Inc.
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