

PLAN MARK	MANUFACTURER	CATALOG NO.	LAMP DATA			MOUNTING HEIGHT TO BOTTOM OF LIGHT	TOTAL	FIXT
			**	NO.	WATTAGE & LAMPS	FIXTURE	PER	COUN
С	NORA	NTH-109B	LED	1	LED14E26P3030KNFLB	TRACK HEADS	14	65
E	SIMKAR	SEMW	LAMPS FURNISHED WITH FIXTURE			WALL MINIMUM OF 1'-0" BELOW CEILING OR 13'-6" IN AREAS WITH NO CEILING	3.4	7
EA	SIMKAR	REM2WP		LAMPS	S FURNISHED WITH FIXTURE	REMOTE HEADS WALL MINIMUM AT 1'-0" ABOVE DOOR JAMB CONNECTED TO BATTERY SIDE OF EXIT LIGHT	0	1
Н	GEORGE KOVACS	P854-084	CF	1	SCF23EL/MINITWIST	CEILING MOUNTED DECORATIVE	23	2
T6	NORA	NT-302B	6' TRACK WITH: (1) NT-316B END FEED, (1) NT- 348/1A END FEED WITH 1A CURRENT LIMITER			SURFACE UNLESS NOTED OTHERWISE (PENDANT BY OWNER)		4
Т8	NORA	NT-303B	8' TRACK WITH: (1) NT-316B END FEED, (1) NT- 348/1A END FEED WITH 1A CURRENT LIMITER			SURFACE UNLESS NOTED OTHERWISE (PENDANT BY OWNER)		4
T12	NORA	(1) NT-348/1A END FEED WITH 1A CL	JRREN			SURFACE UNLESS NOTED OTHERWISE (PENDANT BY OWNER)	-	1
T40	NORA		SA CÚR		IMITER, (3) NT-310B CONNECTORS,	SURFACE UNLESS NOTED OTHERWISE (PENDANT BY OWNER)		1
T44	NORA	348/2.5A END FEED WITH 2.5A CUR	RENTL		H: (1) NT-316B END FEED, (1) NT- , (4) NT-310B CONNECTORS, (1) NT- DR	SURFACE UNLESS NOTED OTHERWISE (PENDANT BY OWNER)	90 OK 100	1
Х	SIMKAR	SCLI2RW		LAMPS	S FURNISHED WITH FIXTURE	WALL 6" ABOVE DOOR OR SURFACE MOUNTED ON CEILING	4.4	1
XA	SIMKAR	SCLI2RW-REM REMOTE CAPABLE	LAMPS FURNISHED WITH FIXTURE			WALL 6" ABOVE DOOR OR SURFACE MOUNTED ON CEILING	4.4	2
Υ	CANARM	IPL104A01CH	LED	1	SLED6B13C/BENT/DIM/827	ALICE MINI PENDANT	6	2
Z	POSSINI	59774	Н	3	LAMPS INCLUDED	PENDANT MOUNTED LIGHT	60	1

I ICHTING FIXTURE SCHEDULE

ELECTRICAL SPECIFICATIONS

2 ALL LIGHT FIXTURES, TRACKS AND ACCESSORIES ARE FURNISHED AND INSTALLED BY CONTRACTOR. FINALIZE SELECTION FIXTURES 'H', 'Y' AND 'Z' WITH TENANT

3 ALL FLUORESCENT LUMINAIRES SHALL BE PROVIDED WITN DISCONNECTING MEANS AS REQUIRED PER CEC 410.130(G).

PRIOR TO PURCHISING.

A. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE EXECUTION OF HIS WORK.

1 ALL FLUORESCENT LAMPS BASED ON PHILPS LIGHTING COMPANY.

- B. THE WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES TO CONSTRUCT AND INSTALL THE EQUIPMENT AND SYSTEMS NECESSARY TO COMPLETE THE WORK INDICATED ON DRAWINGS.
- C. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AN INSTALLATION SHALL BE FURNISHED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
- D. THE INSTALLATION SHALL COMPLY WITH THE APPLICABLE ORDINANCES OF THE LOCAL AUTHORITIES, ALL STATE REQUIREMENTS, THE REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, ANYTHING IN THESE SPECIFICATIONS OR DRAWINGS TO THE CONTRARY NOTWITHSTANDING.
- BEFORE SUBMITTING THE PROPOSAL FOR HIS WORK, THE CONTRACTOR SHALL VISIT THE SITE. HE SHALL SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK AND THE GENERAL CONDITIONS. HE SHALL HAVE FULL KNOWLEDGE AS TO TRANSPORTATION, DISPOSAL, HANDLING AND STORAGE OF MATERIALS, AVAILABILITY OF WATER, ELECTRIC POWER AND ALL OTHER FACILITIES IN THE AREA WHICH WILL HAVE A BEARING ON THE PERFORMANCE OF HIS WORK AND THE CONTRACT FOR WHICH HE SUBMITS A PROPOSAL. FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF WITH ALL AVAILABLE INFORMATION SHALL NOT RELIEVE HIM OF ANY RESPONSIBILITY FOR PERFORMING HIS WORK PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR CONDITIONS INCREASING THE CONTRACTOR'S COST. WHERE THE CONDITION WAS OBVIOUS AND COULD HAVE BEEN DISCOVERED BY HIM IF HE HAD VISITED THE PROJECT AND HAD THOROUGHLY INFORMED HIMSELF OF ALL EXISTING CONDITIONS WHICH WOULD AFFECT HIS WORK.

2. <u>WIRE</u>

- TOILET ROOM

- TOILET ROOM

UTILITY ROOM

---- = HOT LEG

1.6

28.4KVA

78.8A

FILENAME:

· LIGHT

#106 LIGHT

#105 LIGHT

- A. ALL BUILDING WIRE SHALL BE 600 VOLTS COPPER, TYPE THWN OR THW, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS. THE MINIMUM SIZE CONDUCTOR FOR LIGHTING, POWER AND CONTROL SHALL BE NUMBER
- B. UPSIZE BRANCH CIRCUIT WIRE FOR A MAXIMUM VOLTAGE DROP OF 3%.

3. CONDUIT

- A. CONDUITS MUST BE RIGID OR INTERMEDIATE METAL CONDUIT (IMC) FROM FINISH FLOOR TO A POINT 5'-0" ABOVE FINISH FLOOR IF EXPOSED. OTHERWISE CONDUIT MAY BE GALVANIZED THIN WALL CONDUIT OR ELECTRO-METALLIC TUBING (EMT). CONDUIT BELOW FLOOR MAY BE PVC. PVC CONDUIT MUST BE COUPLED TO RIGID STEEL BEFORE RISING THRU SLAB. PVC NOT PERMITTED ABOVE SLAB
- B. CONDUIT IS TO BE RUN EITHER PARALLEL OR PERPENDICULAR TO ONE SIDE OF BUILDING, AND AS HIGH AS POSSIBLE, CONCEALED ABOVE THE CEILING. WHERE CONDUIT CANNOT BE CONCEALED ABOVE THE CEILING , CONTRACTOR SHALL NOTIFY OWNER FOR DIRECTION. CONDUIT SHALL NOT BE ROUTED EXPOSED ABOVE THE ROOF DECK.
- COMMERCIAL METAL DEVICES THAT WILL HOLD PERMANENTLY SHALL BE USED IN ANCHORING CONDUIT TO MASONRY OR CONCRETE. WOODEN PLUGS WILL NOT BE PERMITTED, AND THE ROOF DECK SHALL NOT BE PENETRATED.
- D. ALL CONDUIT SHALL BE MINIMUM 1/2". UNLESS OTHERWISE NOTED. AND AS REQUIRED BY THE "NEC" CONDUIT FILL TABLES
- E. THE USE OF ROMEX SHALL NOT BE PERMITTED.
- F. FINAL CONNECTION TO ROOF TOP EQUIPMENT MAY BE MADE WITH FLEXIBLE CONDUIT PER CODE.
- G. IF ROOF PENETRATIONS ARE REQUIRED TO SERVICE THE RTU'S, THE CONTRACTOR SHALL EMPLOY A ROOFING CONTRACTOR. PROVIDE WEATHER TIGHT PITCH POCKETS AND EXTEND GROUNDED CONDUIT AND SEAL TIGHT TO RTU DISCONNECTS ETC.

4. POWER EQUIPMENT

- A. ALL NEW POWER EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
- B. NEW PANEL BOARD SHALL BE SQUARE 'D' I-LINE SERIES, EATON, GE, OR
- C. SAFETY SWITCHES SHALL BE NEMA 3R, HEAVY DUTY, AS MANUFACTURED BY SQUARE 'D', EATON, GE, OR SIEMENS

A. THE CONTRACTOR SHALL PROVIDE ALL POWER DEVICES AS SHOWN ON THE DRAWINGS, IN COMPLIANCE WITH ALL OTHER NOTES SHOWN ON THE DRAWINGS, AND CONNECT AS SHOWN ON THE DRAWINGS.

ELECTRICAL GENERAL NOTES

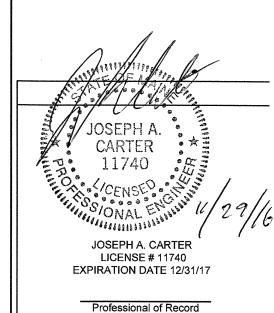
- BEFORE SUBMITTING THE BID PROPOSAL, THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUAINT HIMSELF WITH THE JOB CONDITIONS AND VERIFY SERVICE CONNECTIONS, INCLUDING ALL NECESSARY PULL BOXES, SIZE AND NUMBER OF CONDUITS AND CONDUCTORS, SWITCHGEAR, METERING, CABLE CHARGES ETC., WHETHER SHOWN ON DRAWINGS OR NOT BUT REQUIRED BY SERVICE UTILITY CO. TO MAKE A COMPLETE AND OPERATING ELECTRICAL SERVICE WITHOUT ADDITIONAL COST TO THE OWNER. VERIFY SERVICES AND CHARGES WITH POWER AND TELEPHONE COMPANIES.
- CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHERS TRADES AND SHALL INSTALL LIGHTING FIXTURES AS SHOWN ON THE DRAWINGS, AND ACCOMMODATE FIXTURES WITH OTHER EQUIPMENT INSTALLATIONS. PRIOR TO FINISH OF EFFECTED WORK, CONTRACTOR SHALL INSTRUCT THE OWNER AND/OR MANAGER ON THE USE AND MAINTENANCE OF THE ELECTRICAL SYSTEM.
- CONTRACTOR SHALL VERIFY ALL REQUIREMENTS WITH OTHER TRADES EQUIPMENT AND WITH MECHANICAL DRAWINGS AND SPECIFICATIONS, AND SHALL PROVIDE ALL ITEMS REQUIRED BY THAT CONTRACTOR FOR COMPLETE INSTALLATION.
- RUNNING OVER CURRENT PROTECTION AND DISCONNECT MEANS
- SHALL BE INSTALLED ON ALL MOTORS TO COMPLY WITH CODE. ALL DISCONNECT SWITCHES SHALL BE 'HORSEPOWER RATED' FOR THE MOTOR CONNECTED.
- FLUORESCENT BALLASTS SHALL COMPLY WITH ALL APPLICABLE STANDARDS, AND CODES.
- CIRCUIT BREAKERS IN LIGHTING PANELS CONTROLLING FLUORESCENT FIXTURES NOT WITHIN SIGHT OF PANEL SHALL HAVE APPROVED MEANS FOR LOCKING IN THE OPEN POSITION.

- 8. ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST "NEC." AND ALL LOCAL CODES AND ORDINANCES. IN CASES OF CONFLICT AMONG REQUIREMENTS, THE MOST RESTRICTIVE SHALL
- 9. LIGHTING FIXTURES AND ELECTRICAL DEVICES FOR USE OUTSIDE THE BUILDING SHALL BE WEATHERPROOF.
- 10. GROUND ELECTRICAL EQUIPMENT PER "NEC" AND LOCAL CODE REQUIREMENTS.
- 11. ALL CONDUCTORS SHALL BE # 12 AWG WITH INSULATION PER SPECIFICATIONS. EXCEPT AS OTHERWISE NOTED OR AS REQUIRED FOR VOLTAGE DROP, SEE SPECIFICATION. ALL CONDUIT SHALL BE 1/2" MINIMUM EXCEPT AS OTHERWISE NOTED OR AS REQUIRED FOR CONDUCTORS.
- 12. CONTRACTOR SHALL PROVIDE ALL WIRING TO ALL SIGNS AND SHALL MAKE FINAL CONNECTIONS TO ALL SIGNS. SIGNS ARE PROVIDED BY VENDORS, CONTRACTOR SHALL COORDINATE LOCATION OF ROUGH-IN WITH SIGN VENDOR.
- 13. THE WORDS "SHALL PROVIDE" INDICATES "FURNISH AND INSTALLED"
- 14. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO VERIFY LANDLORDS PROVIDED FIRE ALARM SYSTEM, AND TO PROVIDE ANY AND ALL ADDITIONAL DEVICES AND EQUIPMENT NECESSARY TO PROVIDING A WORKABLE AND COMPATIBLE SYSTEM, WHICH MAY INCLUDE CONTRACTING WITH A THIRD PARTY VENDOR.
- 15. EMERGENCY LIGHT FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF LOCAL SWITCHES AND CONTACTOR CONTROL PER N.E.C.

ST. LOUIS, MO 63127 PROJECT MANAGERS

ISSUED DATES OWNER 11-23-16 **BID/PERMIT** 11-28-16 REVISIONS





DRAWN BY GLR

CHECKED BY

PROJECT NUMBER

316157

SHEET NAME POWER AND

SHEET NUMBER