

GENERAL NOTES

1. CONSULT WITH THE OAR BEFORE STARTING WORK.
2. THE CONTRACTOR SHALL USE SUFFICIENT BARRICADES AND TEMPORARY PROTECTION DEVICES TO PREVENT PEDESTRIANS OR NON-AUTHORIZED PERSONNEL ACCESS TO ANY OPEN TRENCHES OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ERECT A SAFETY BARRICADE AT ALL OPEN TRENCHES OUTSIDE OF THE BARRICADE LIMITS SHALL BE BACKFILLED AND SAFETY OF THE PUBLIC. ALL TRENCHES, DITCHES, SUMPS, ETC. FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TRENCHES AFTER BEING OPENED. DURING THE TRENCHES ARE OPEN IN TRAFFIC AREAS. THE CONTRACTOR SHALL PROVIDE TRAFFIC PLATES. SAFETY BARRICADES SHALL BE PANELIZED CHAIN LINK FENCE. EACH FENCE PANEL SHALL BE 6FT TALL X 10FT WIDE WITH STAND AND TIED TOGETHER END TO END WITH A MINIMUM 8-GAUGE WIRE. NO TRENCHES SHALL BE LOCATED OUTSIDE BARRICADES.
3. ALL FEEDER AND BRANCH CIRCUIT RACEWAYS SHALL CONTAIN A GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC ARTICLE 250. ALL UNDERGROUND CONDUITS SPACED NOT LESS THAN 3" APART. MINIMUM DEPTH OF NOT LESS THAN 24" BELOW FINISHED GRADE TO THE TOP OF CONCRETE ENVELOPE.
4. ALL RACEWAYS INSIDE LIBRARY AND OFFICES SHALL BE CONCEALED.
5. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL.
6. APPROVED FOR USE UNDER THIS CONTRACT.
7. PRIOR TO PULLING ANY CONDUCTORS, CLEAN AND MANDREL ALL CONDUITS.
8. CONTRACTOR SHALL INSTALL EQUIPMENT PER ADA (AMERICAN DISABILITIES ACT) REQUIREMENTS.
9. DRAWINGS DO NOT SHOW ALL THE NECESSARY PULLBOXES, PROVIDE ALL PULLBOXES TO COMPLY WITH CODES AND STANDARDS AND TO TERMINATE CONDUITS AND RACEWAYS PER MANUFACTURERS' RECOMMENDATIONS THROUGHOUT SITE.
10. EXTERIOR EQUIPMENT, JUNCTION BOXES, ENCLOSURES AND CONNECTIONS SHALL BE WEATHERPROOF TYPE SUITABLE FOR EXTERIOR INSTALLATION.
11. COORDINATION:
 - A. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THE FEATURES SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
 - B. BEFORE STARTING ANY UNDERGROUND WORK, THE CONTRACTOR SHALL CONTACT ALL UTILTY COMPANIES IN ORDER TO LOCATE EXISTING UNDERGROUND LINES. IN THE EVENT THAT DURING THE UNDERGROUND WORK THE CONTRACTOR DAMAGES ANY EXISTING LINES, IT WILL BE HIS RESPONSIBILITY TO DO ALL NECESSARY REPAIR WORK AT HIS EXPENSE.
 12. THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "PROVIDED BY OTHERS".
 13. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER AND RATED PER 600 VOLTS AT 90°C. WITH INSULATION TYPE THHN, THWN-2 OR XHHW. ALL CONDUCTORS #10 AND LARGER SHALL BE STRANDED, #12 AND SMALLER MAY BE EITHER STRANDED OR SOLID. PROVIDE APPROVED TERMINATIONS FOR ALL CONDUCTORS.
 14. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED FLOOR SLABS, SHAFTS AND WALLS SHALL BE SEALED AGAINST THE SPREAD OF FIRE OR SMOKE WITH APPROVED CABLE & CONDUIT FIRE TOPS OR FIRE RESISTANT SEALANT TO GIVE THE EQUIVALENT FIRE RATING BEFORE AND AFTER THE PENETRATION.
 15. PROVIDE NYLON PULL CORD OR STRINGS IN ALL EMPTY CONDUITS.
 16. ALL JUNCTION BOX COVER PLATES FOR BRANCH CIRCUIT SYSTEM SHALL BE CLEARLY MARKED WITH PERMANENT INK FELT PEN IDENTIFYING THE BRANCH CIRCUIT (BOTH PANEL NUMBER AND CIRCUIT NUMBER) CONTAINED IN THE BOX.
 17. ALL EQUIPMENT ANCHORAGE SHALL BE DETAILED ON DRAWINGS. DESIGN SHALL CONFORM TO 2022 CBC SECTION 1623A AND TABLE 16-A-C.
 18. THE CONTRACTOR SHALL MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM IN ALL CONDUITS/RACEWAYS.
 19. TEST THE ENTIRE SYSTEM TO DEMONSTRATE TO THE OAR THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND FUNCTION PROPERLY. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION.
 20. EXPOSED CONDUIT SHALL BE INSTALLED ALONG MECHANICAL PIPES. INSIDE BUILDING THE EXPOSED CONDUIT SHALL BE GALVANIZED RIGID CONDUIT. THE ABOVE 7'-0" MAY BE EMT. ALL EXPOSED EXTERIOR CONDUIT UP TO 7'-0" SHALL BE RIGID STEEL AND ABOVE 7'-0" MAY BE EMT. ALL EXPOSED EXTERIOR CONDUIT SHALL BE PAINTED TO MATCH THE SURFACE.
 21. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. CONTRACTOR IS REQUIRED TO VERIFY CONDITIONS, DIMENSIONS AND INDICATED EQUIPMENT SIZES, MANUFACTURERS DATA AND INFORMATION AS NECESSARY TO INSTALL THE WORK. COORDINATE LOCATION AND LAYOUT WITH OTHER WORK. CONTRACTOR SHALL PROVIDE TO THE ENGINEER A 1/4"=1'-0" SCALED DRAWING OF ELECTRICAL EQUIPMENT ROOMS SHOWING LOCATION AND CLEARANCES OF SUBMITTED EQUIPMENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING OF ELECTRICAL EQUIPMENT.
 22. PROJECT SYSTEMS AND CABLING INFRASTRUCTURE SHALL BE PROVIDED PER LATEST DISTRICT STANDARDS AND SPECIFICATION.
 23. CONTRACTOR TO REVIEW ARCHITECTURAL AND ELECTRICAL PLANS FOR ALL EXISTING EQUIPMENT TO BE REMOVED. ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THESE DRAWINGS OR NOT, THAT ARE LOCATED IN REMOVED WALLS, FLOORS, OR CEILING, SHALL BE REMOVED UNLESS OTHERWISE NOTED.
 24. THE CONTRACTOR SHALL VISIT THE SITE, INCLUDING ALL AREAS INDICATED ON THE DRAWINGS, SHALL ACCEPT CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.
 25. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE REVISIONS. THIS WILL INCLUDE REROUTING OR EXTENDING OF EXISTING CONDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF THE EXISTING EQUIPMENT TO REMAIN.
 26. EXISTING CIRCUIT NUMBERS AND HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS. IT IS THIS CONTRACTORS RESPONSIBILITY TO VERIFY LOCATIONS OF HOMERUNS, AND TO ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS AS REQUIRED.
 27. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.
 28. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT, AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS IN AN "AS-FOUND" CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
 29. WHERE NEW CIRCUITS ARE SHOWN TO EXISTING PANELS, INSTALL NEW BREAKERS (MINIMUM 20 AMP, SINGLE POLE) AS CALLED FOR ON DRAWINGS.
 30. DURING EACH PHASE OF DEMOLITION, ALL CIRCUITS FROM EXISTING PANELS WHICH FEED AREAS OUTSIDE THE BOUNDARIES OF THAT PHASE, SHALL BE MAINTAINED.
 31. ALL ABANDONED OUTLETS INCLUDING LIGHT, RECEPTACLES, DATA/E, ETC., SHALL BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER.
 32. ALL EQUIPMENT, DEVICES, AND WIRING SHOWN ON THE PLANS ARE NEW UNLESS NOTED AS EXISTING.

TYPE	MANUFACTURER & MODEL NUMBER	MOUNTING	COLOR TEMP SOURCE	WATTS	SYSTEM INPUT WATTS	VOLTAGE	DIMMING	DESCRIPTION	NOTES
A	FINELITE LIGHTING #HPX-P-ID-4-S-840-F-120-SC-FC-10%-FE	PENDANT	4000 K	29	120V	0-10V		4" LED PENDANT DIRECT/INDIRECT LINEAR FIXTURE.	
A1	FINELITE LIGHTING #HPX-SM-D-4H-840-F-120-FC-10%-FE	SURFACE	4000 K	27	120V	0-10V		4" LED SURFACE DIRECT LINEAR FIXTURE.	
B	H.E. WILLIAMS LIGHTING #755-4-130-840-DIM-UNV	SURFACE	4000 K	19.7	120-277V	0-10V		4" LED NARROW STRIP AND SQUARED LENS SURFACE MOUNTED LIGHT FIXTURE.	
B1	H.E. WILLIAMS LIGHTING #755-8-130-840-DIM-UNV	SURFACE	4000 K	40	120-277V	0-10V		8" LED NARROW STRIP AND SQUARED LENS SURFACE MOUNTED LIGHT FIXTURE.	
C	H.E. WILLIAMS LIGHTING #4DR-TL-L30/840-UNV-L-W-CS	RECESSED	4000 K	27.8	120-277V	0-10V		4.5" DIAMETER CYLINDRICAL DOWN LIGHT RECESSED MOUNTED LUMINAIRE.	
C1	H.E. WILLIAMS LIGHTING #4DR-TL-L30/840-DIM-UNV-L-W-CS-WET/CC	RECESSED	4000 K	27.8	120-277V	0-10V		4.5" DIAMETER CYLINDRICAL DOWN LIGHT RECESSED MOUNTED LUMINAIRE WET LOCATION, COVERED CEILING LISTED.	
D	BASELITE LIGHTING #PEN-B-4-1-LCBL-C-1-LED12W-4K-LDM-10	PENDANT	4000 K	12	120-277V	0-10V		PENDANT CYLINDRICAL LIGHTING FIXTURE.	
F	BEGA LIGHTING #B22386-K4-BLK	WALL MOUNTED	3500 K	23	120-277V	0-10V		EXTERIOR WALL WASHER WALL MOUNTED LUMINAIRE.	
G	BASELITE LIGHTING #PEN-4-1-LCBL-C-4-LED25W-4K-LDM-10	PENDANT	4000 K	25	120-277V	0-10V		PENDANT MOUNTED CYLINDRICAL LUMINAIRE.	
H	HESS LIGHTING #SE42B/G-IF-MK-40K-DIM-UNV-SE24B/G-IF-MK	BOLLARD	4000 K	15	120-277V	0-10V		HESS BOLLARD LIGHT WITH COMPLETE MOUNTING ACCESSORIES.	
J	100 WATT AV POLES & LIGHTING #SS5-204-7	POLE MOUNTED	4000 K	93	120-277V	0-10V		POLE MOUNTED LED FIXTURE WITH HOUSE SIDE SHIELD AND WITH OCCUPANCY SENSORS AND DIMMABLE DRIVER. POLE IS A 20FT STEEL SQUARE POLE.	
K	CANLET LIGHTING # PUK-03-16-W-F-BE-09	WALL	4000 K	16	120-277V	0-10V		WALL MOUNTED LED FIXTURE.	
L	BASELITE LIGHTING #PELB-4-1-S1-18-LED12W-40K-LDM-10	WALL MOUNTED	4000 K	12	120-277V	0-10V		WALL MOUNTED CYLINDRICAL LUMINAIRE.	
M	EVENLIGHT # CCDS EM-G-WW-1B-SD	SURFACE	-	2.5	120-277V	0-10V		EXIT LIGHT WITH BUILT-IN EMERGENCY BATTERY PACK. PROVIDE DIRECTIONAL ARROWS AS REQUIRED PER PLAN.	
N	EVENLIGHT # CCDS EM-G-WW-1B-SD	CEILING	-	2.5	120-277V	0-10V		EXIT LIGHT WITH BUILT-IN EMERGENCY BATTERY PACK. PROVIDE DIRECTIONAL ARROWS AS REQUIRED PER PLAN.	

GENERAL NOTES:

- 1- PROVIDE UL LISTED DRIVERS OR SOCKETS WITH MANUFACTURER LABEL LISTED PER THE INPUT SYSTEM WATTS AS INDICATED TO SUPPORTS.
- 2- FIRE RESISTANT SEALANT TO GIVE THE EQUIVALENT FIRE RATING BEFORE AND AFTER THE PENETRATION.
- 3- THE LIGHTING FIXTURES AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARDS AND REGULATIONS OF THE FOLLOWING:
 - A. UNDERWRITERS LABORATORIES (UL)
 - B. CALIFORNIA ELECTRICAL CODE (CEC)
 - C. LOCAL BUILDING AND LIFE SAFETY CODE AGENCIES.
 - D. LM-79-08, LM-80-08, TM-21-11, AND TITLE 20 LISTED
- 4- ALL FIXTURES AND WORKMANSHIP SHALL BE GUARANTEED FREE OF DEFECTS AND FULLY OPERATIONAL. ANY FIXTURES OR WORKMANSHIP FOUND TO BE DEFECTIVE DURING THE WARRANTY PERIOD WILL BE EITHER FIXED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 5- PROVIDE ADEQUATE AND STURDY SUPPORT FOR EACH LIGHTING FIXTURE OR POLE LIGHT ASSEMBLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE WEIGHT AND MOUNTING METHOD OF ALL FIXTURES AND FURNISH AND INSTALL SUITABLE SUPPORTS OR BASE FOOTINGS. FIXTURE MOUNTING ASSEMBLIES SHALL COMPLY WITH ALL LOCAL SEISMIC CODES AND REGULATIONS.
- 6- NOTE: CONTRACTOR SHALL REFER TO ARCHITECTURAL OR STRUCTURAL DRAWINGS FOR FOOTING REQUIREMENTS.
- 7- PROVIDE ALL LIGHT FIXTURES EQUIPPED WITH COMPATIBLE DIMMING DRIVERS PER THE LIGHTING CONTROLS SYSTEM.
- 8- PROVIDE UL924 DEVICES FOR ALL EMERGENCY FIXTURES. ALL LIGHTING FIXTURES EQUIPPED WITH EMERGENCY BATTERY BACK-UP DESIGNATED WITH "EM" ON PLANS SHALL BE PROVIDED WITH A UV-SWITCHED HOT WIRE PER MANUFACTURER DIRECTIONS.
- 9- CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE VOLTAGES WITH LIGHTING PLANS AND LIGHTING PANEL SCHEDULES.
- 10- PROVIDE ALL FINISHES FOR ALL LIGHT FIXTURES PER THE ARCHITECTS FINAL SELECTION.

LIGHTING FIXTURE SCHEDULE

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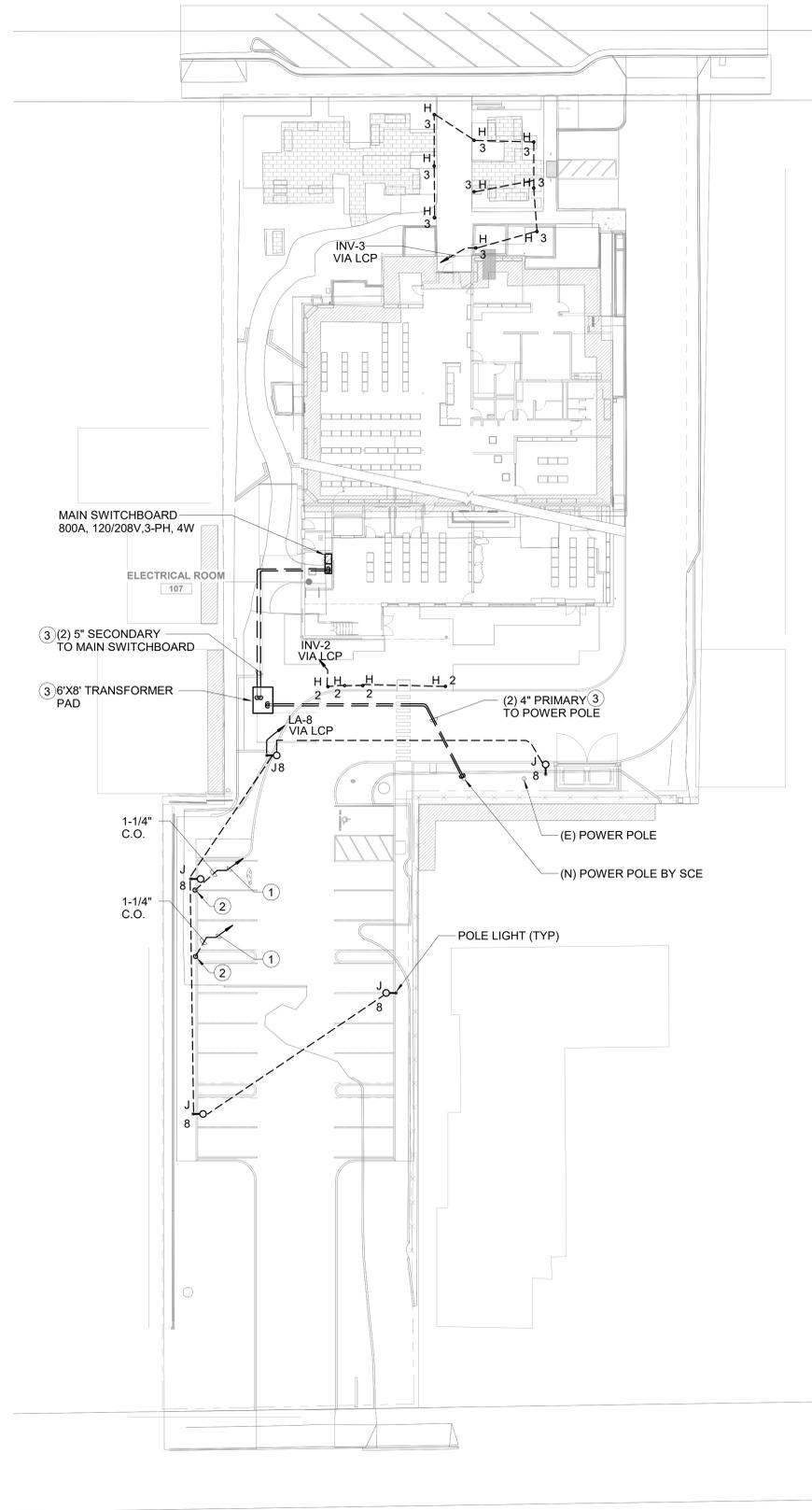
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1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"



GENERAL NOTES

1. UNDERGROUND POWER & SIGNAL CONDUITS DUCTBANK SHOWN ON THIS SITE PLAN SHALL BE 27" MIN. BELOW FINISH GRADE. SEE "CONDUIT DUCT BANK" DETAIL 5/9.01 FOR CONDUIT INSTALLATION.
2. RUN UNDERGROUND CONDUITS BELOW BUILDING FOUNDATION.
3. UNDERGROUND CONDUITS SHALL BE 12" AWAY FROM ANY OTHER UNDERGROUND UTILITY CONDUITS; i.e. GAS, SEWER, WATER, ETC.
4. UNDERGROUND CABLES INSTALLED IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE CABLES.

KEYNOTES

- 1 1-1/4" C.O. TO ELECTRICAL ROOM FOR FUTURE EV CHARGERS. SEE NOTE 7 ON SHEET E3.13 FOR ADDITIONAL INFORMATION.
- 2 STUB CONDUIT BELOW CONCRETE WALKWAY FOR FUTURE EV CHARGER. PROVIDE MARKER.
- 3 INSTALL EQUIPMENT, CONDUITS, BOLLARD POST PER SCE REQUIREMENT.



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Consultant



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W.W. & U.D. O'N.G. - C.O.M.
Job No. 23-014

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Project
City of Sierra Madre Library
440 W Sierra Madre Boulevard
Sierra Madre, CA 91024



Job No: 23-025.00

Owner
City of Sierra Madre Library

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Sheet Title
ELECTRICAL SITE PLAN

Sheet No:

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