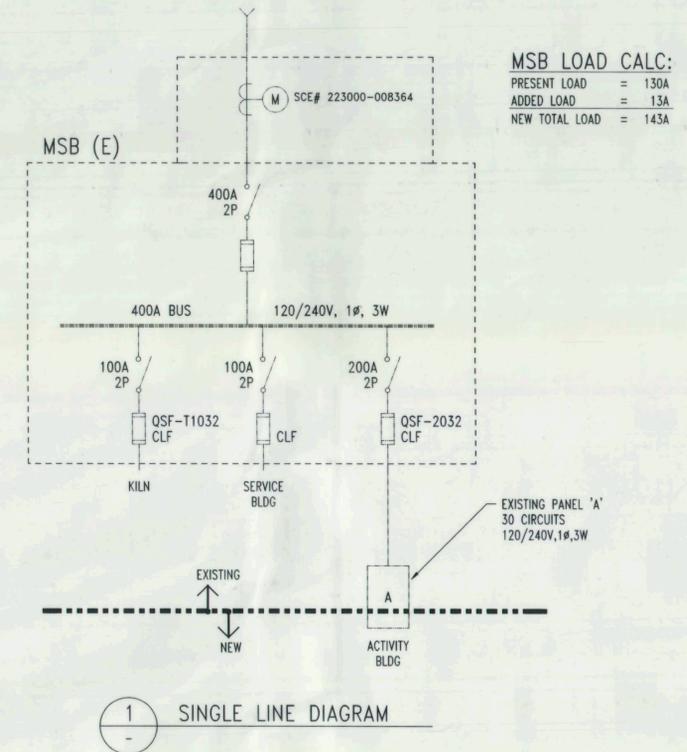
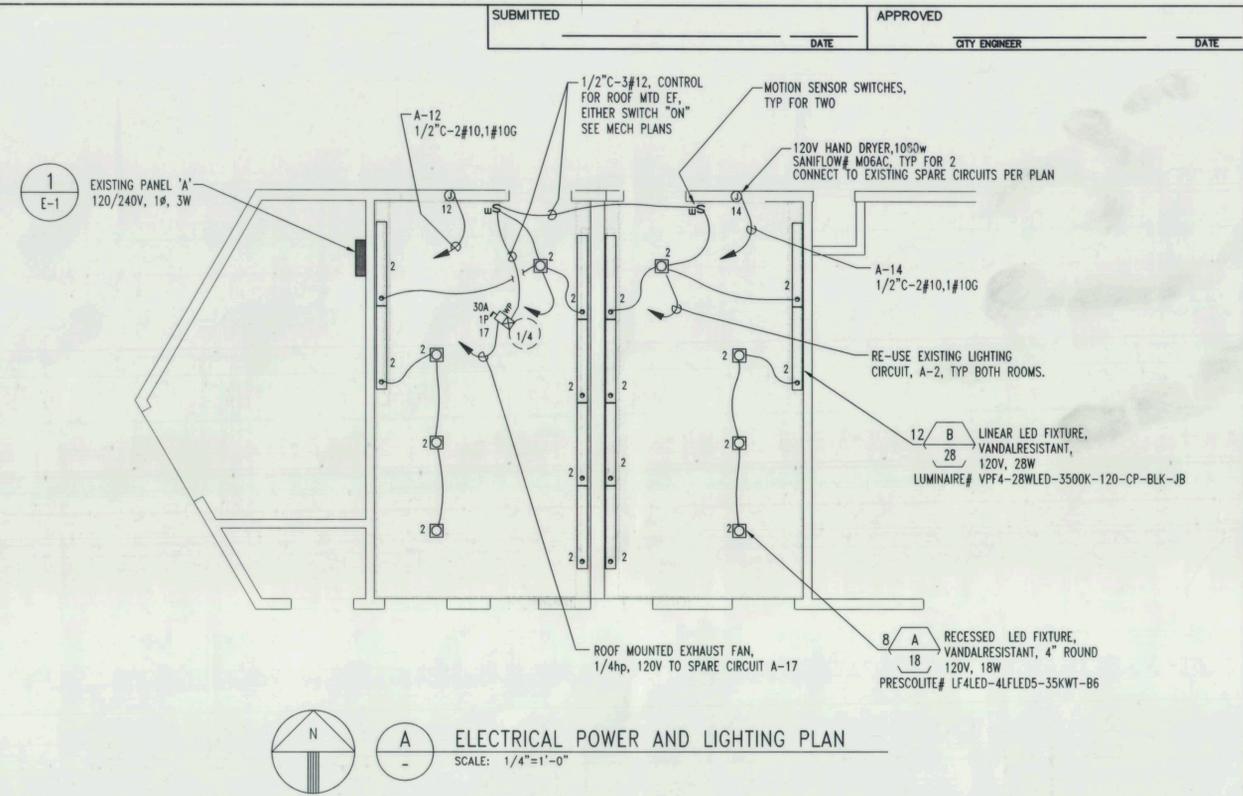


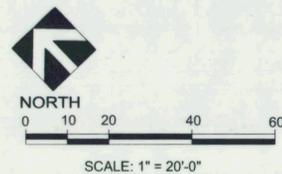
SITE ELECTRICAL NOTES

- ALL POLES SHALL HAVE RIGID PVC WRAPPED GALVANIZED CONDUIT SWEEPS IN BASES TO 30" BELOW GRADE. POLES TO BE TRUE AND PLUMB AND BONDED TO GROUND WIRE.
 - OBTAIN ROUTE FOR VEHICLE TRAFFIC AT SITE FROM OWNER. REPAIR ANY DAMAGE TO TURF, TREES, SHRUBS, HARDSCAPE, OR EQUIPMENT.
 - ALL UNDERGROUND PVC CONDUIT SHALL HAVE 3" CONCRETE COVER AND BE 30" BELOW GRADE OR ROUTE UNDER WALKS.
 - CONTRACTOR SHALL VISIT JOB SITE, VERIFY EXISTING CONDITIONS, AND INCLUDE IN BID ALL WORK REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
 - ALL SPLICES IN HANDHOLES AND PULLBOXES TO BE WATERPROOF. ALL CONDUCTORS TO BE COPPER, THW OR THHN.
 - ALL EXPOSED HARDWARE (FASTENERS) TO BE TAMPERPROOF INCLUDING PULLBOX AND HANDHOLE FASTENERS.
 - COORDINATE ELECTRICAL WORK WITH REQUIREMENTS OF OTHER TRADES.
 - COORDINATE ELECTRICAL AND TELEPHONE UTILITY SERVICE CONNECTIONS AND INCLUDE IN BID ALL COSTS INVOLVED, INCLUDING MATERIAL, LABOR, SERVICE FEES AND PERMITS.
 - PROVIDE GROUNDING WHERE INDICATED OR REQUIRED BY CODE.
 - INSTALL SERVICES AND METERS PER UTILITY COMPANY REQUIREMENTS.
 - ALL LABOR AND MATERIALS SHALL MEET FULLY WITH ALL REQUIREMENTS OF ELECTRICAL CODES HAVING AUTHORITY.
 - IF NON-METALLIC CONDUIT IS USED, PROVIDE GROUND WIRE.
 - ALL EQUIPMENT SHALL BE LEFT CLEAN. PREMESIS SHALL BE CLEANED OF DIRT AND DEBRIS.
 - CONTRACTOR SHALL FURNISH FOR APPROVAL, SHOP DRAWINGS OF SERVICE EQUIPMENT, MOTOR STARTERS, LIGHTING FIXTURES, AND CONTROL DEVICES PRIOR TO PURCHASE.
 - OBTAIN MAXIMUM AVAILABLE FAULT CURRENT FROM THE POWER COMPANY PRIOR TO BID, CIRCUIT PROTECTIVE DEVICES SHALL HAVE INTERRUPTING RATING TO PROTECT THE ELECTRICAL SYSTEM AGAINST THE MAXIMUM AVAILABLE FAULT CURRENT.
 - FURNISH AND PAY FOR ALL PERMITS AND BUILDING DEPARTMENT PERMIT CHARGES, INCLUDING ELECTRICAL UTILITY CHARGES, IF THE LOCAL UTILITY CO. CHARGES ARE NOT AVAILABLE AT THE TIME OF BID, INCLUDE AN AMOUNT EQUAL TO 10% OF YOUR TOTAL ELECTRICAL BID AMOUNT.
 - POLE AND MAST ARMS SHALL BE DESIGNED TO SUPPORT THE NUMBER OF LUMINAIRES CALLED FOR ON EACH POLE. WIND LOADING AND POLE DESIGN SHALL CONFORM TO THE LATEST EDITION OF THE U.B.C. MANUFACTURER SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION, ALL CALCULATIONS TO BE SIGNED BY CALIFORNIA REGISTERED PROFESSIONAL ENGINEER.
- EXCAVATION AND BACKFILLING:**
- ALL TRENCHES SHALL BE BACKFILLED, WITH ALL EXCAVATED EARTH PUDDLED OR WELL TAMPED INTO PLACE. LARGE STONES AND INORGANIC MATERIAL SHALL NOT BE RETURNED TO THE TRENCHES. ALL EXCESS EARTH FROM THE EXCAVATIONS NOT REQUIRED FOR BACKFILLING, FILL, OR GRADING, SHALL BE REMOVED FROM THE SITE AS DIRECTED.
- CUTTING AND PATCHING:**
- THE CONTRACTOR SHALL ORGANIZE AND LAYOUT HIS WORK SO THE WORK CAN BE INSTALLED IN THE INSPECTABLE SEGMENTS AS THE WORK PROCEEDS. IF REQUIRED, TO PROPERLY INSTALL ANY WORK, CUTTING OF THE STRUCTURE SHALL BE KEPT TO A MINIMUM SIZE NEEDED TO INSTALL THE WORK. OBTAIN PERMISSION FROM THE STRUCTURAL ENGINEER BEFORE CUTTING OR BORING ANY STRUCTURAL FRAMING MEMBER.
 - PATCHING OF ANY HOLE OR CUT SHALL BE MADE IN SUCH A MANNER THAT THE ORIGINAL CONDITIONS ARE SUBSTANTIALLY RESTORED TO THE SATISFACTION OF THE ARCHITECT OR ENGINEER.
 - BORE UNDER ALL CONCRETE OR ASPHALT WALKS. SAW CUT AND REPAIR ALL CONCRETE OR ASPHALT AREAS TO NEW CONDITION.
 - PROVIDE CONDUIT SEALS WITH DRAIN PLUG (EYSD) IN ALL CONDUITS ENTERING VAULTS TO PREVENT GROUND WATER OR WATER PONDS OR ANY WATER CONTAINMENT AREA FROM DRAINING WATER INTO ELECTRICAL EQUIPMENT IN BELOW GRADE VAULTS (NEC 230-8).
 - ALL EXTERIOR LIGHTING CIRCUITS SHALL BE PROVIDED WITH A PHOTOCELL AND 7-DAY 24 HOUR DIGITAL TIMECLOCK LOCATED NEAR PANEL, WHETHER INDICATED ON PLANS OR NOT. CONTROL PANEL SHALL BE EQUIPPED WITH NUMBER OF TIME SWITCHES REQUIRED. CONTROL PANEL SHALL HAVE SPACE FOR TWO ADDITIONAL TIME SWITCHES. TIME SWITCHES SHALL HAVE SILVER CONTACTS 30 AMP MINIMUM RATING. FURNISH EQUAL NUMBER OF CONTACTS AS CIRCUITS CONTROLLED PLUS ONE SPARE POLE, TORK, INTERMATIC, AMF OR EQUAL.



M & A MULLEN & ASSOCIATES INCORPORATED
ELECTRICAL ENGINEERS
Project Number 2012005
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UNDER THE SUPERVISION OF:
Elroy L. Kiepk RCE 22382 DATE 05/04/12

BENCH MARK:
NO. _____ ELEV. _____
DATE ADJ. _____ QUAD. _____

SEE TOPOGRAPHIC SURVEY MAP
ROBERT RYAN PARK
PREPARED BY
MCGEE SURVEYING CONSULTING
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REVISIONS			
NO.	DESCRIPTION	APP.	DATE

CITY OF RANCHO PALOS VERDES
RYAN PARK RESTROOMS IMPROVEMENT AND ACCESSIBILITY COMPLIANCE
ELECTRICAL BUILDING PLAN

DRAWN BY :	CLD	SHT. 20 OF 20 SHTS	PLAN NO. E-1
DESIGNED BY :	LDM		
CHECKED BY :	LDM		