



**SUNPOWER**  
 1414 HARBOUR WAY SOUTH  
 RICHMOND, CA 94804 USA  
 (510) 540-0550

ENGINEER'S STAMP  
 GLENDALE UNIFIED SCHOOL DISTRICT  
 HOOVER HIGH  
 651 GLENWOOD ROAD  
 GLENDALE, CA 91202  
 HELIX CARPORT & RMR  
 ARRAY LAYOUT

REV	DESIGN #	DATE	DB	CB	RA	DI
A	D-008409	07-25-16	RA	DI		
B	D-008409	08-03-16	CP	DI		
C	D-0081146	09-29-16	CP	DI		
		10-03-16	HG	DI		
		12-22-16	HG	DJ		

**1 ARRAY LAYOUT**  
 SCALE: 1/50" = 1'-0"

- NOTES:**
- 110 MPH WIND ZONE (ASCE 7-10) CATEGORY II, EXPOSURE C
  - CORROSION RATE: [0.7um/yr],[C2: 50%, C3: 99%]
  - METER #TBD
  - ARRAY SHOWN ON AERIAL IMAGE
  - ARRAY MOUNTING STRUCTURE HELIX CARPORT
  - MINIMUM VERTICAL CLEARANCE: 10' PROVIDED FOR STANDARD VEHICLES
  - BUILDING CODE REQUIRES 20' MIN. CLEARANCE FROM EXISTING BUILDINGS
  - FIRE DEPARTMENT REQUIRES 20' MIN. CLEARANCE ALONG EMERGENCY ACCESS ROUTES
  - THIS DESIGN ASSUMES THAT SITE PREPARATION WILL BE COMPLETED AS REQUIRED TO MEET ALL TOLERANCES OF THE PROPOSED ARRAY, UNLESS NOTED OTHERWISE. THIS INCLUDES BUT IS NOT LIMITED TO TREE REMOVAL AND TREE TRIMMING.
  - ALL LIGHT POLES WITHIN ARRAY BOUNDARY, AND THOSE WHICH WILL SHADE THE ARRAY, NEED TO BE REMOVED PRIOR TO INSTALLATION. NEW LIGHTING TO BE PROVIDED ONLY UNDER THE CARPORT PER IES STANDARDS.
  - ALL TREES WITHIN ARRAY BOUNDARY, AND THOSE WHICH WILL SHADE THE ARRAY, NEED TO BE REMOVED OR TRIMMED PRIOR TO INSTALLATION.
  - REMOVAL OF PARKING SPACES MAY BE REQUIRED AT EQUIPMENT PAD LOCATION.
  - DSA PROJECTS: REQUIRE ACCESSIBLE STALLS TO BE SHADED TO THE SAME PERCENTAGE AS REGULAR STALLS. ACCESSIBILITY UPGRADES AND RESTRIPING IS NOT INCLUDED IN THIS DESIGN.

- LEGEND:**
- X PROPOSED TREE REMOVAL
  - - - PROPOSED AC RUN
  - PROPOSED EQUIPMENT PAD
  - PROPOSED POINT OF INTERCONNECTION

ARRAY/ROOF	MOUNTING TYPE	PV UP	PV ACR S	#OF BLOCK	STRING	#OF PV	KWP	24KW INV. (70 MOD)	24KW INV. (60 MOD)	20KW INV. (40 MOD)	AZI	TILT	HT. (FT.)	#OF COL	LF	SF
C1	PFT	4	50	1	20	200	87.00			5	13°	10°	11	6	173.66	4732.235
C2		6	50	1	30	300	130.50		5	6				173.66	7105.590	
R1	RMR				10	120	52.20		2				18			
R2					76	910	395.85	1	14				38			
<b>TOTAL</b>					136	1530	665.55	1	21	5			12	347	11838	

**PROPOSED SYSTEM SPECIFICATIONS:**  
 HIGH EFF. (435W) MODULES  
 10 MODULES/STRING  
 TOTAL OF LIGHT POLES TO BE REMOVED: 1

**NOTE:** THE PROPOSED ARRAY LAYOUT SHOWN IS DESIGNED TO FIT EXISTING CONDITIONS AS THEY ARE DESCRIBED ON THIS DRAWING. KWP AND MODULE QUANTITY, TYPE AND LAYOUT ARE SUBJECT TO CHANGE BASED ON SUNPOWER VERIFICATION OF ACTUAL SITE CONDITIONS, AS WELL AS ON MODULE AVAILABILITY AT THE DATE OF ORDER.

**TIER 1**

OPPORTUNITY 0001212315

PROJECT

DATE DRAWN 07-25-16

DRAWN BY RA

SHEET 1