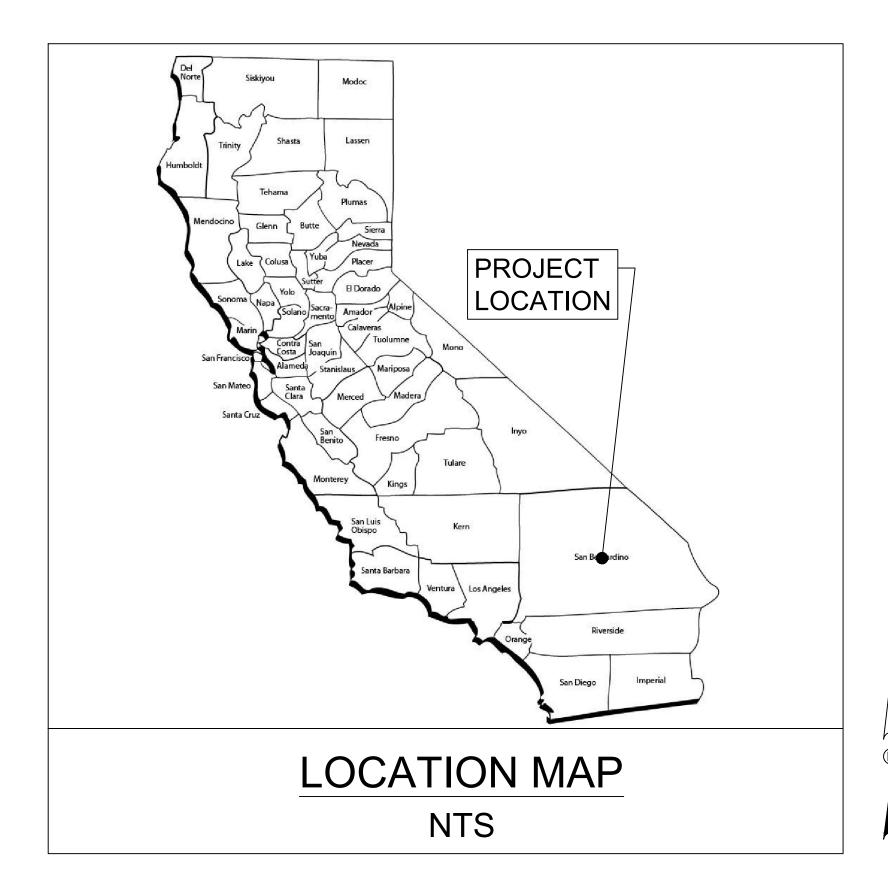
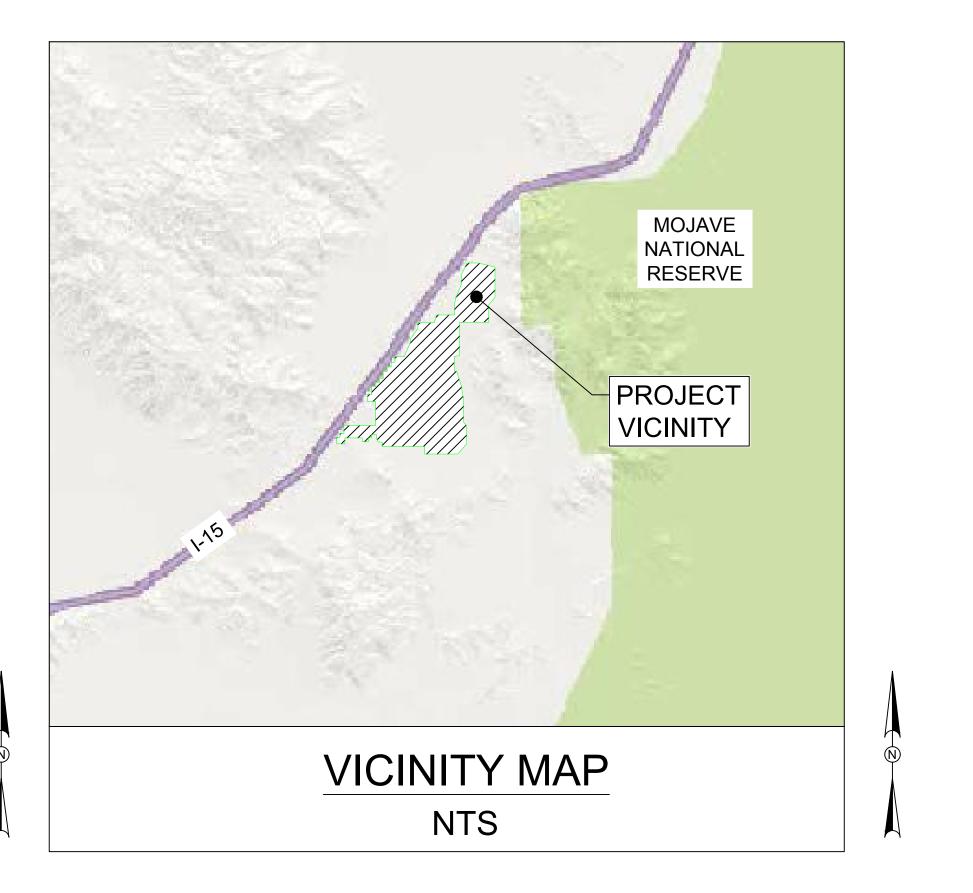
DOCKETED	
Docket Number:	24-OPT-03
Project Title:	Soda Mountain Solar
TN #:	257905
Document Title:	Appendix A2 Engineering Generation Facility Description, Design and Operation
Description:	Appendix A contains information on facility and transmission design, reliability, efficiency and 30% Civil Design Plans. (Part 2 of 3)
Filer:	Hannah Gbeh
Organization:	Resolution Environmental
Submitter Role:	Applicant Consultant
Submission Date:	7/22/2024 5:19:38 PM
Docketed Date:	7/23/2024

30% CIVIL DESIGN PLANS FOR SODA MOUNTAIN SOLAR PROJECT SITE COORDINATES: 35.150692° N, 116.177542° W SAN BERNARDINO COUNTY, BAKER, CA 92309





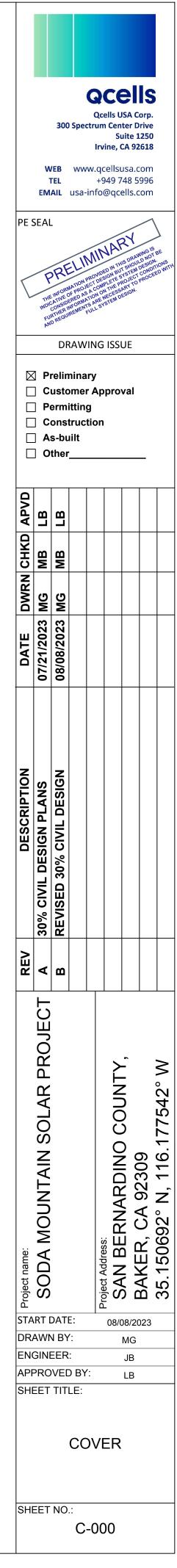
DRAWING INDEX						
SHEET NUMBER	SHEET TITLE	SHEET TITLE REV				
C-000	COVER	В	08/08/2023			
C-001 - C-002	GENERAL NOTES	В	08/08/2023			
C-100	OVERALL EXISTING CONDITIONS & DEMOLITION PLAN	В	08/08/2023			
C-200	OVERALL SITE PLAN	В	08/08/2023			
C-201 - C-209	SITE PLAN	В	08/08/2023			
C-300	OVERALL GRADING, DRAINAGE, & EROSION CONTROL PLAN	В	08/08/2023			
C-301 - C-309	GRADING, DRAINAGE, & EROSION CONTROL PLAN		08/08/2023			
C-400	OVERALL EARTHWORK PLAN	В	08/08/2023			
C-501	SITE DETAILS	В	08/08/2023			
C-502 - C-503	GRADING, DRAINAGE & EROSION CONTROL DETAILS B 08/		08/08/2023			

PROJECT TEAM

DEVELOPER/ELECTRICAL HANWHA QCELLS USA CONTACT: AARON DUGAN 300 SPECTRUM CENTER DRIVE IRVINE, CA 92618 512-699-0991 AARON.DUGAN@QCELLS.COM

CIVIL KLEINFELDER, INC. CONTACT: ABRAM JORGENSON 707 17TH STREET, SUITE 3000 DENVER, CO 80202 303-237-6601 AJORGENSON@KLEINFELDER.COM EOR: JASON BROWN, PE





	SITE	DESCRIPTION	
HE PROPER		SOLAR ENERGY FACILITY IN SAN BERNARDINO COUNTY, CA. UTHWEST OF THE TOWN OF BAKER, CA, ALONG I-15. REFER TO JET FOR MORE DETAIL	1
HE SOLAR E	NERGY FACILITY WILL INCLUDE THE FOLLOWI	NG SITE COMPONENTS: GROUND-MOUNTED PHOTOVOLTAIC	2
	CTRICAL COLLECTION LINES, INVERTERS, BES RY ELECTRICAL EQUIPMENT AND ANCILLARY	S (BATTERY ENERGY STORAGE SYSTEM) YARD, SUBSTATION ELECTRICAL EQUIPMENT.	;
EARING/GR	UBBING/DISCING AND OTHER SITE PREPARAT	INCLUDE THE FOLLOWING CONSTRUCTION ACTIVITIES: SITE TON; INSTALLATION OF SITE CONSTRUCTION ENTRANCES,	
CURITY FE	NCE, GATES, LAYDOWN & EQUIPMENT STORA	NSTALLATION OF PROPOSED ACCESS ROADS, PROJECT GE AREAS, AND OTHER SITE COMPONENTS; SITE GRADING; © OTHER DRAINAGE MEASURES; AND SITE STABILIZATION.	
		SOLAR ENERGY FACILITY MUST BE MANAGED BY DRAINAGE	
	ELY IMPACT DOWNSTREAM PROPERTIES AND		
	PROJECT NAME SITE ENTRANCE COORDINATES	SODA MOUNTAIN SOLAR PROJECT 35.150692° N, 116.177542° W	
	COUNTY, STATE	SAN BERNARDINO COUNTY, CA	
	HORIZONTAL DATUM	CALIFORNIA STATE PLANES, ZONE V, HPGN, US SURVEY FOOT	
		NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)	
	EXISTING USE PROPOSED USE	VACANT SOLAR ENERGY FACILITY	
	GE	NERAL NOTES	_
			_
1.	INCLUDING THE DATE OF NOTIFICATION) IN 1-800-422-4133 AND 811 (NATIONWIDE TOLL	OWNERS THROUGH CALIFORNIA 811 ONE CALL TWO BUSINESS DAYS (NOT ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. CALL FREE UTILITY LOCATE). THE LOCATION OF THE UTILITIES SHOWN ON THE IT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING	
2.	UTILITIES IS BASED ON DATA PROVIDED BY PLANS MAY NOT SHOW ALL UTILITIES WITH OR THAT SAID UTILITIES ARE ACTUALLY IN	CERNING THE TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITY OWNERS, AVAILABLE RECORDS, AND FIELD SURVEYS. THE N PROJECT LIMITS, EITHER ACTIVE OR LEFT IN PLACE OUT-OF-SERVICE, THE HORIZONTAL OR VERTICAL POSITIONS SHOWN IN THE PLANS. THE AND LOCATION OF ALL UTILITIES TO ESTABLISH THEIR LOCATIONS AND LITIES.	
3.		E IDENTIFIED DURING CONSTRUCTION, CONTRACTOR SHALL NOTIFY IOR TO PERFORMING ANY REMOVAL OR MODIFICATIONS.	
4.	WATER TRUCKS SHALL BE USED FOR DUST		
5.	THE CONTRACTOR SHALL COORDINATE WI MANNER UPON COMPLETION OF THE PROJI	TH THE PROJECT OWNER AND DISPOSE OF ALL DEBRIS IN A LEGAL	
6.	RESTORATION OF DAMAGED STRUCTURES TO REPAIR, REBUILD OR RESTORE TO ITS F	OR UTILITIES: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR ORMER CONDITION, ANY AND ALL PORTIONS OF EXISTING UTILITIES, ES OR FACILITIES, WHICH MAY BE DISTURBED OR DAMAGED DUE TO	
7.		TEMS WITH APPLICABLE FEDERAL, STATE, COUNTY, CITY, LOCAL WNERS.	
8.		E WORK, THE CONTRACTOR SHALL CLEAR AND REMOVE FROM THE INT, SURPLUS AND DISCARDED MATERIALS, RUBBISH AND TEMPORARY ORK.	
9.	CONTRACTOR TO OBTAIN AND REVIEW ALL	PERMITS PRIOR TO STARTING CONSTRUCTION.	
10.) IS SUBJECT TO MODIFICATIONS DURING THE CONSTRUCTION DRAWING RM TO ALL LAND USE AND ENVIRONMENTAL PERMIT REQUIREMENTS.	
		SAFETY	_
	ENSURE THAT THE METHOD OF TRENCH PRO OCCUPATIONAL SAFETY AND HEALTH ADMINI RESPONSIBILITY OF THE CONTRACTOR TO CO ABOVE INFORMATION HAS BEEN PROVIDED F	MPLY WITH THE "TRENCH SAFETY ACT". THE CONTRACTOR SHALL TECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE STRATION (OSHA) REGULATIONS. IT SHALL BE THE SOLE OMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE OR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY CT AND /OR ENFORCE SAFETY REGULATIONS.	
	ENFORCED. THE CONTRACTOR OR HIS REPRIOF THE TRAVELING PUBLIC AND THE SAFETY	ENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF HIS/HER PERSONNEL. LABOR SAFETY REGULATIONS SHALL Y OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF	
GE	NERAL EXISTING CON	DITIONS & DEMOLITION PLAN NOTES	
FIF		MINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA 3/2008. THERE ARE ANTICIPATED IMPACTS PROPOSED WITH THE	
LO	, , , , , , , , , , , , , , , , , , , ,	NAL ENVIRONMENTAL FEATURES ARE YET TO BE FORMALLY CTS WITH THE DEVELOPMENT OF THIS PROJECT, IF ANY, WILL BE ETERMINATION.	
	IY AND ALL IMPACTS TO EXISTING ENVIRONME PLICABLE FEDERAL, STATE, OR LOCAL RULES	ENTAL FEATURES MUST BE CONSTRUCTED IN COMPLIANCE WITH AND REGULATIONS.	
4. CC		EATURES WITH APPLICABLE FEDERAL, STATE, OR LOCAL AGENCIES,	
5. TH		HE MARKED LIMITS OF DISTURBANCE UNLESS SPECIFICALLY CALLED	
	E FOLLOWING EXISTING SITE FEATURES WITH LESS SPECFICALLY CALLED FOR IN THE CIVIL TREES, BRUSH, AND SHRUBS FENCE AND FENCE POSTS DIRT ROADS (OR ABANDONED IN PLACE) OTHER EXISTING SITE FEATURE DISRUPTING		

SITE PLAN NOTES

PROPOSED ELECTRICAL LAYOUT AND ANCILLARY ELECTRICAL EQUIPMENT ARE SHOWN FOR ILLUSTRATIVE PUROPOSES ONLY. REFER TO THE ELECTRICAL PLANS, BY OTHERS, FOR MORE DETAIL.

THE MINIMUM SEPARATION SHOWN BETWEEN THE GROUND-MOUNTED PHOTOVOLTAIC PANELS AND PROJECT SECURITY FENCE IS 10-FT, UNLESS OTHERWISE NOTED IN THE CIVIL PLANS.

THE MINIMUM INTERNAL RADIUS SHOWN FOR THE PROPOSED ACCESS ROADS IS 35-FT, UNLESS OTHERWISE NOTED IN THE CIVIL PLANS. ADDITONAL GRAVEL FOR WB-67 DELIVERY ACCESS TO BE ADDED AT CONTRACTOR'S DISCRETION.

REFER TO THE TYPICAL ROAD CROSS SECTIONS ON SHEET C-501 FOR MORE DETAIL ON ACCESS ROAD WIDTH(S) AND DESIGN CRITERIA.

A TEMPORARY FENCE PLAN WILL BE PREPARED, AS NEEDED, TO MEET COUNTY AND/OR STATE JURISDICTIONAL REQUIREMENTS.

AN OFFSITE ROADWAY IMPROVEMENT PLAN WILL BE PROVIDED, AS NEEDED, TO MEET COUNTY AND/OR STATE JURISDICTIONAL REQUIREMENTS.

GENERAL GRADING AND DRAINAGE NOTES

ALL GRADING CONSTRUCTION SHALL BE IN ACCORDANCE WITH SAN BERNARDINO COUNTY STANDARDS AND SPECIFICATIONS. IN THE EVENT THERE ARE SIMILAR SPECIFICATIONS, THE MOST STRINGENT ONE WILL APPLY.

ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES.

ALL SITE GEOLOGY, SOIL COMPACTION, SITE PREPARATION, SUBGRADE PREPARATION, FILL MATERIAL, FILL PLACEMENT, DENSIFICATION AND PROOF ROLLING SHALL BE IN ACCORDANCE WITH THE FINAL GEOTECHNICAL REPORT.

ALL SPOIL MATERIAL SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA WITH LOW SIDE WRAPPED IN SILT FENCE.

THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION INTO NEARBY JURISDICTIONAL FEATURES.

STOCKPILE SATISFACTORY EXCAVATED MATERIALS UNTIL REQUIRED FOR FILL. PLACE, GRADE, AND SHAPE STOCKPILES FOR POSITIVE DRAINAGE. STOCKPILES SHALL HAVE THEIR OWN PERIMETER CONTROLS AND SHOULD NOT BE PLACED WITHIN 100 FEET OF JURISDICTIONAL FEATURES.

EARTHWORK AND GRADING:

- A. MATERIALS AND CONSTRUCTION METHODS FOR EARTHWORK, EXCAVATION, EMBANKMENT, AND GRADING SHALL MEET THE REQUIREMENTS OF SAN BERNARDINO COUNTY AND SHALL BE PERFORMED TO ACHIEVE FINAL GRADES, ELEVATIONS, AND TYPICAL SECTIONS AS SHOWN ON THE PLANS FOR PROPOSED WORK.
- B. CLEARING AND MOWING SHALL MEET THE REQUIREMENTS OF SAN BERNARDINO COUNTY AND SHALL BE PERFORMED WITHIN THE LIMITS OF THE PROJECT WORK.
- C. ROUGH GRADING: THE CONTRACTOR SHALL GRADE THE SITE TO MEET THE REQUIREMENTS OF SAN BERNARDINO COUNTY AND SHALL CONFORM TO THE LINES, GRADES, AND TYPICAL SECTIONS AS SHOWN ON THE PLANS.

IMPORTED ENGINEERED FILL MUST MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL RECOMMENDATIONS:

FILL REQU	JIREMENT	TE	EST PROCEDURES
Grad	Gradation		Caltrans ²
Sieve Size	Percent Passing		
3-inch	100	D6913	202
3/4-inch	70-100	D6913	202
No. 200	10-30	D6913	202
	Plast	ticity	
Liquid Limit	Liquid Limit Plasticity Limit		
<30 <12		D4318	204
Organic Content			
No visible	No visible organics		
Expansio	on Index		
20 o	r less	D4829	
Corrosion	Potential		
Soluble Sulfates	<2000 ppm		417
Sulble Chloride	<300 ppm		422
Resistivity	Resistivity >2000 ohm-cm		643
	ng and Materials Standards	. ,	
² State of California, Depart	ment of Transportation, Stan	dard Test Meth	ods (latest edition)

DTE: CALTRANS CLASS 1 THROUGH 3 AGGREGATE SUBBASE OR CLASS 2 OR 3 AGGREGATE BASE IS ALSO ACCEPTABLE FOR

PORTED ENGINEERED FILL.

1. CONTRACTOR SHALL BE AWARE OF THE FOLLOWING PLANS, PERMITS, AND REPORTS PREPARED FOR THIS PROJECT AND SHALL COMPLY WITH THE REQUIREMENTS WITHIN.

DOCUMENT/FILE	PREPARED BY	DATE
ENVIRONMENTAL SITE ASSESSMENT (PHASE 1)	SODA MOUNTAIN, LLC	06/15/2023
JURISDICTIONAL DETERMINATION	N/A	N/A
STREAM/WETLAND DELINEATION	N/A	N/A
FLOODPLAIN STUDY	VC RENEWABLES	06/15/2023
SUBSTATION LAYOUT	HANWHA QCELLS USA INC.	03/01/2023
BESS LAYOUT	HANWHA QCELLS USA INC.	03/01/2023
PVSYST	HANWHA QCELLS USA INC.	03/08/2023
ELECTRICAL LAYOUT	HANWHA QCELLS USA INC.	05/23/2023
PRE-DEVELOPMENT HYDROLOGY STUDY	KLEINFELDER, INC.	ONGOING
POST-DEVELOPMENT HYDROLOGY STUDY	KLEINFELDER, INC.	ONGOING
SURVEY (ALTA, BOUNDARY, TOPOGRAPHIC)	HANWHA QCELLS USA INC. (SEE NOTE 2)	06/14/2023 (SEE NOTE 2)
SPILL PREVENTION, CONTROL, AND COUNTERMEASURE	N/A	N/A
GEOTECHNICAL INVESTIGATION REPORT	N/A	N/A
STORMWATER POLLUTION PREVENTION PLAN	N/A	N/A

SITE I	DATA	
DESCRIPTION	UNIT	QUANTITY
PROJECT NAMEPLATE	MW-AC	±300
PROJECT AREA	AC	1,490
LIMITS OF DISTURBANCE AREA	AC	2,040
SECURITY FENCED AREA	AC	1,760
SECURITY FENCE LENGTH	LF	84,990
GATE (24-FT)	EA	7
LAYDOWN YARDS	AC	10
INTERNAL ACCESS ROADS AREA	AC	40
INTERNAL ACCESS ROADS	LF	83,010
CONSTRUCTION ENTRANCES/EXITS WITH CONCRETE WASHOUT	EA	1
TEMPORARY SEDIMENT BASINS	EA	10
LOW WATER CROSSINGS	EA	8
BOX CULVERT (SIZE TBD)	EA	12
FIBER ROLL	LF	1,520
TEMPORARY DIVERSION DITCH	LF	35,860
BERM	LF	40,010
EARTHWORK EST		ARY

	TOTAL
	SEDIMENT BASINS
	CHANNELS
	ARRAY (VIA HQC)
5.	PERMANENT EARTHWOR PRE-CONSTRUCTION VS
4.	SEE SHEET C-400 FOR TH
3. 3.1. 3.2. 3.3. 3.4. 3.5.	REMOVAL OF TOPSO REMOVAL OF MATER TRENCHING
2.	THE EARTHWORK ESTIM SURVEY LISTED IN THE F GRADE, PER THE PRELIM
1.	EARTHWORK IS AN ESTIN DETAILED EARTHWORK

REFERENCE PLANS, PERMITS, AND REPORTS

2. ATLA, BOUNDARY, AND TOPOGRAPHIC SURVEYS PROVIDED TO KLEINFELDER ARE PRELIMINARY AND NOT SUFFICIENT FOR PERMITTING OR CONSTRUCTION. THE PROPOSED 30% CIVIL DESIGN IS BASED ON THE PROVIDED SURVEY AND SHALL BE CONSIDERED CONCEPTUAL UNTIL FINAL ALTA, BOUNDARY, AND TOPOGRAPHIC SURVEYS SIGNED AND STAMPED BY A CALIFORNIA LICENSED SURVEYOR ARE PROVIDED. ASSUMPTIONS FOR DESIGN BASIS WERE BASED ON HANWHA QCELLS USA INPUT.

QUANTITY TAKEOFFS

1. THE TABLE BELOW PROVIDES APPROXIMATE TAKEOFF QUANTITIES FOR REFERENCE ONLY. CONTRACTOR MUST COMPLETE A DETAILED TAKEOFF ANALYSIS FOR THE PURPOSES OF COST ESTIMATING AND CONSTRUCTION.

IMATE ONLY AND SHOULD BE USED FOR REFERENCE. CONTRACTOR SHALL COMPLETE A ANALYSIS FOR THE PURPOSES OF COST ESTIMATING AND CONSTRUCTION.

MATE REPRESENTS A COMPARISON BETWEEN THE EXISTING GRADE, PER THE TOPOGRAPHIC REFERENCE PLANS, PERMITS, AND REPORTS TABLE ON THIS SHEET, AND THE PROPOSED MINARY CIVIL DESIGN.

IDERATIONS ARE NOT PART OF THE EARTHWORK ESTIMATE AT THIS TIME:

CTORS SOIL, UNSUITABLE SOIL, OR ROCK

RIAL FOR THE CUTTING IN OF ROAD SECTIONS AND/OR REPLACEMENT WITH HARDSCAPE RADING

HE OVERALL EARTHWORK MAP AND A MORE DETAILED CUT/FILL ANALYSIS.

ORK ASSOCIATED WITH SEDIMENT BASINS TO BE DETERMINED FOLLOWING FINAL 3. POST-CONSTRUCTION HYDROLOGY ANALYSIS.

	CUT (CY)	FILL (CY)	NET (CY)
)	71,000	91,000	20,000 (FILL)
	145,500	0	145,500 (CUT)
S	413,500	89,100	324,400 (CUT)
	630,000	180,100	449,900 (CUT)

CA LICENSE # 467252

Qcells Qcells USA Corp. 300 Spectrum Center Drive Suite 1250 Irvine, CA 92618 WEB www.qcellsusa.com TEL +949 748 5996 EMAIL usa-info@qcells.com PE SEAL DRAWING ISSUE Preliminary Customer Approval Permitting Construction As-built Other____ LB AP MB MB MG MG 23 TE '20; DA (21) (08) 0 0 RIPTION LANS DESIGN DESCR SIGN PL CIVIL D DE 0% 8 8 () \succ Δ COUNT AR \sim ١Ò \overline{O} ဟ ERNARDINO (, CA 92309 392° N, 116.17 AIN MOUNT/ SODA é m N N N ы С С С С С С С START DATE: 08/08/2023 DRAWN BY: MG ENGINEER: JB APPROVED BY: LB SHEET TITLE: GENERAL NOTES KLEINFELDER Bright People. Right Solutions. SHEET NO.: C-001

GENERAL EROSION CONTROL PLAN NOTES

- BEST MANAGEMENT PRACTICES SHALL BE USED FOR THIS PROJECT TO CONTROL EROSION AND TURBIDITY CAUSED BY 1 STORM WATER RUN-OFF.
- 2. THE LOCATION AND DETAILS OF EROSION CONTROL METHODS ARE SHOWN ON THE SWPPP PLANS PREPARED BY KLEINFELDER.
- THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING THESE CONTROL METHODS AS SHOWN ON THE 3 PLANS OR AS REQUIRED BEFORE ANY SITE GRADING OR CONSTRUCTION TAKES PLACE. HE/SHE SHALL ALSO PROVIDE THE REQUIRED EROSION PROTECTION AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAW.

EROSION AND SEDIMENT CONTROLS. DESIGN, INSTALL, AND MAINTAIN EFFECTIVE EROSION CONTROLS AND SEDIMENT 4 CONTROLS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. AT A MINIMUM, SUCH CONTROLS MUST BE DESIGNED, INSTALLED, AND MAINTAINED TO:

- CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION IN ORDER TO MINIMIZE POLLUTANT DISCHARGES;
- CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWRATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINT(S);
- MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY;
- MINIMIZE THE DISTURBANCE OF STEEP SLOPES; • MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. THE DESIGN, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS MUST ADDRESS FACTORS SUCH AS THE AMOUNT, FREQUENCY, INTENSITY AND DURATION OF PRECIPITATION, THE NATURE OF RESULTING STORMWATER RUNOFF, AND SOIL CHARACTERISTICS, INCLUDING THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE;
- IF EARTH DISTURBANCE ACTIVITIES ARE LOCATED IN CLOSE PROXIMITY TO A SURFACE WATER OF THE STATE, PROVIDE AND MAINTAIN APPROPRIATE NATURAL BUFFERS IF FEASIBLE AND AS NECESSARY, AROUND SURFACE WATER OF THE STATE, DEPENDING ON SITE-SPECIFIC TOPOGRAPHY, SENSITIVITY, AND PROXIMITY TO WATER BODIES. DIRECT STORMWATER TO VEGETATED AREAS AND MAXIMIZE STORMWATER INFILTRATION TO REDUCE POLLUTANT DISCHARGES, UNLESS INFEASIBLE, IF PROVIDING BUFFERS IS INFEASIBLE, THE PERMITTEE SHALL DOCUMENT THE REASON THAT NATURAL BUFFERS ARE INFEASIBLE AND SHALL IMPLEMENT ADDITIONAL EROSION AND SEDIMENT CONTROLS TO REDUCE SEDIMENT LOAD;
- PRESERVE NATIVE TOPSOIL AT THE SITE, UNLESS THE INTENDED FUNCTION OF A SPECIFIC AREA OF THE SITE DICTATES THAT THE TOPSOIL BE DISTURBED OR REMOVED. OR IT IS INFEASIBLE: AND
- MINIMIZE SOIL COMPACTION. IN AREAS OF THE CONSTRUCTION SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR OR WHERE INFILTRATION PRACTICES WILL BE INSTALLED, EITHER: • RESTRICT VEHICLE AND EQUIPMENT USE TO AVOID SOIL COMPACTION; OR
- PRIOR TO SEEDING OR PLANTING AREAS OF EXPOSED SOIL THAT HAVE BEEN COMPACTED, USE
- TECHNIQUES THAT CONDITION THE SOILS TO SUPPORT VEGETATIVE GROWTH, IF NECESSARY AND FEASIBLE; • MINIMIZING SOIL COMPACTION IS NOT REQUIRED WHERE THE INTENDED FUNCTION OF A SPECIFIC AREA OF THE
- SITE DICTATES THAT IT BE COMPACTED.
- SOIL STABILIZATION. STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED 7 DAYS AFTER (PER EPC 5 AGREEMENT) ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. IN THE CONTEXT OF THIS REQUIREMENT, "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE NEXT WORK DAY, FOLLOWING THE DAY WHEN THE EARTH-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY STABILIZATION MUST BE COMPLETED NO MORE THAN 14 CALENDAR DAYS AFTER INITIATION OF SOIL STABILIZATION MEASURES, AND FINAL STABILIZATION MUST BE ACHIEVED PRIOR TO TERMINATION OF PERMIT COVERAGE. IN ARID, SEMI-ARID, AND DROUGHT-STRICKEN AREAS WHERE INITIATING VEGETATIVE STABILIZATION MEASURES IMMEDIATELY IS INFEASIBLE. ALTERNATIVE NON-VEGETATIVE STABILIZATION MEASURES MUST BE EMPLOYED AS SOON AS PRACTICABLE. REFER TO CALTRANS SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL FOR FULL LIST OF NECESSARY STABILIZATION REQUIREMENTS. IN LIMITED CIRCUMSTANCES, STABILIZATION MAY NOT BE REQUIRED IF THE INTENDED FUNCTION OF A SPECIFIC AREA OF THE SITE NECESSITATES THAT IT REMAIN DISTURBED.
- POLLUTION PREVENTION MEASURES. DESIGN, INSTALL, IMPLEMENT, AND MAINTAIN EFFECTIVE POLLUTION PREVENTION MEASURES TO MINIMIZE THE DISCHARGE OF POLLUTANTS. AT A MINIMUM, SUCH MEASURES MUST BE DESIGNED, INSTALLED, IMPLEMENTED, AND MAINTAINED TO:
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE:
 - MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORMWATER;
 - MINIMIZE THE EXPOSURE OF WASTE MATERIALS BY CLOSING WASTE CONTAINER LIDS AT THE END OF THE WORK DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, WHERE THE CONTAINER ITSELF IS NOT SUFFICIENTLY SECURE ENOUGH TO PREVENT THE DISCHARGE OF POLLUTANTS ABSENT A COVER AND COULD LEAK, THE PERMITTEE MUST PROVIDE EITHER A COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO MINIMIZE EXPOSURE OF WASTES TO PRECIPITATION, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT); AND
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS, AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.
- 1. PROHIBITED DISCHARGES. THE FOLLOWING DISCHARGES ARE PROHIBITED:
 - WASTEWATER FROM WASH OUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - WASTEWATER FROM WASH OUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; • FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.
- SURFACE OUTLETS. WHEN DISCHARGING FROM BASINS AND IMPOUNDMENTS, UTILIZE OUTLET STRUCTURES THAT 5 WITHDRAW WATER FROM THE SURFACE, UNLESS INFEASIBLE.
- PERIMETER AND SEDIMENT CONTROLS MAY BE ADJUSTED AT THE DISCRETION OF CONTRACTOR TO CONFORM TO 6. EXISTING TOPOGRAPHY UPON OBSERVATION OF SITE CONDITIONS. INCLUDES OMITTING FIBER ROLLS SHOWN ON THE UPSTREAM SIDE OF PROJECT BOUNDARY THAT WOULD PREVENT RUN-ON AS IDENTIFIED BY THE CONTRACTOR.

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	DATE DWRN	07/21/2023 MG	08/08/2023 MG						
	REV DESCRIPTION	30% CIVIL DESIGN PLANS	REVISED 30% CIVIL DESIGN						
		SODA MOUNTAIN SOLAR PROJECT A			Droinot Addroce.				35.150692° N, 116.177542° W
	DR. EN API SHI	AWI GINI PRC EET	N BY EER VEC	': :) BY			MG JB LB		
KLEINFELDER Bright People. Right Solutions. CA LICENSE # 467252	SHI	EET	NO		-00)2			

