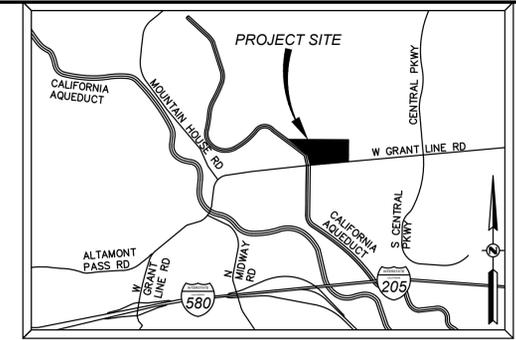


ALAMEDA GRANT LINE SOLAR 1

SITE IMPROVEMENT PLANS

W GRANT LINE RD, UNINCORPORATED ALAMEDA COUNTY 95391
APN: 099B-7650-007-01

SATNAM & MANJEET
SANDHU ETAL
APN:099B-7650-001-00



DESCRIPTION	LEGEND	
	EXISTING	PROPOSED
PROPERTY LINE	—	—
ROW	—	—
EASEMENT	—	—
LOT LINE	—	—
CENTERLINE	—	—
DITCH / FLOWLINE	—	—
EP	—	—
CULVERT WITH FES	—	—
OVERLAND RELEASE PATH	—	—
FENCE	—	—
MAJOR CONTOUR	—	—
MINOR CONTOUR	—	—
CONTROL POINT	—	—

NOTICE TO CONTRACTOR - SWPPP

THIS PROJECT HAS AN APPROVED STATE GENERAL CONSTRUCTION PERMIT AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

WQID # TBD

CONTRACTOR IS RESPONSIBLE TO HIRE A STATE CERTIFIED QSP (QUALIFIED SWPPP PRACTITIONER) TO OVERSEE IMPLEMENTATION OF THE SWPPP PRIOR TO START OF CONSTRUCTION. ALL REQUIRED INSPECTIONS, TRAINING AND REQUIRED TESTING AND REPORTING SHALL BE OVERSEEN BY THE QSP.

THE FINAL APPROVED SWPPP SHALL BE KEPT ON THE CONSTRUCTION SITE DURING CONSTRUCTION AND MAINTAINED BY THE QSP.

CONTRACTOR SHALL SEND THE FINAL SWPPP WITH ALL INSPECTION, TESTING, AMENDMENTS, REPORTS AND OTHER DOCUMENTATION TO THE OWNER ONCE CONSTRUCTION HAS BEEN COMPLETED AND THE NOTICE OF TERMINATION SUBMITTED.

CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING AND INCLUDE THE QSP AND CIVIL ENGINEER IN THE MEETING, EITHER ON-SITE OR VIA TELEPHONE CONFERENCE.

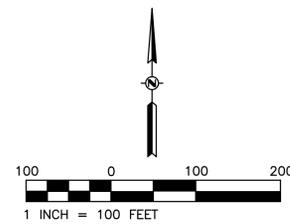
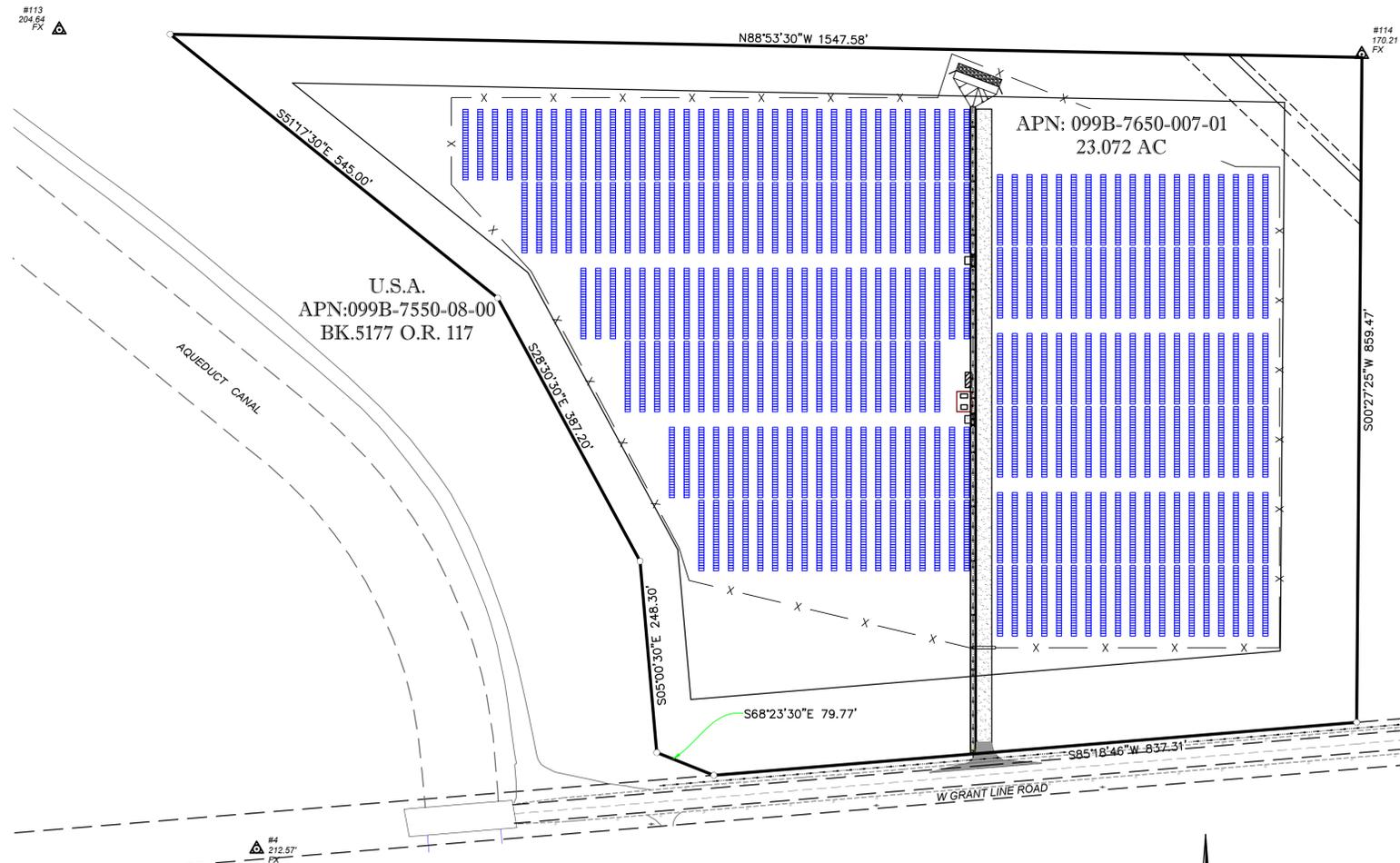
NOTICE TO CONTRACTOR - ORDER OF WORK:

PRIOR TO THE START OF ANY CIVIL WORK, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES BY POT-HOLING AT ALL POINTS OF POTENTIAL CONFLICT WITH PROPOSED UTILITIES OR PROPOSED POINTS OF CONNECTION WITH EXISTING UTILITIES. IF THE ACTUAL LOCATIONS OF THE EXISTING UTILITIES FOUND IN THE FIELD ARE DIFFERENT FROM WHAT IS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT RFE ENGINEERING IMMEDIATELY AND PROVIDE THE ACTUAL LOCATION INFORMATION. RFE ENGINEERING WILL VERIFY IF THERE ARE ANY CONFLICTS WITH THE IMPROVEMENTS AND WILL PROVIDE MODIFICATIONS TO THE DESIGN TO MITIGATE THE CONFLICTS IF ANY CONFLICTS EXIST.

TOTAL DISTURBED AREA: 14.40 AC
RAW EARTHWORK SUMMARY
CUT: 861.5 CY
FILL: 0 CY
NET: 861.5 CY EXPORT
NOTE: EARTHWORK QUANTITIES ARE ESTIMATED TO SUBGRADE AND DO NOT TAKE INTO ACCOUNT SHRINKAGE, EXCESS MATERIALS FROM TRENCHING AND MISC. UNKNOWN STRUCTURAL SECTIONS. CONTRACTOR SHOULD VERIFY EARTHWORK QUANTITIES.

ABBREVIATIONS:

AB AGGREGATE BASE	FL FLOW LINE	POC POINT OF CONNECTION
AC ASPHALT CONCRETE	FOC FACE OF CURB	PRC POINT OF REVERSE CURVE
ARV AIR RELEASE VALVE	FP FINISH PAVEMENT	PT POINT OF TANGENCY
BC BEGIN CURVE	FS FIRE SPRINKLER	PUE PUBLIC UTILITY EASEMENT
BCR BEGIN CURVE RETURN	GB GRADE BREAK	PVI POINT OF VERTICAL INTERSECTION
BLDG BUILDING	GR GRATE ELEVATION	RC RELATIVE COMPACTION
BOC BACK OF CURB	GV GATE VALVE	RCP REINFORCED CONCRETE PIPE
BOW BACK-OF-WALK	GVW GROSS VEHICLE WEIGHT	ROW RIGHT-OF-WAY
BVC BEGIN VERTICAL CURVE	HC HANDICAP	RT RIGHT TURN OR RIGHT
BW BOTTOM OF WALL	HCR HANDICAP RAMP	RPPA REDUCED PRESSURE
CAB CABINET	HDPE HIGH DENSITY POLYETHYLENE	RSW RETAINING WALL
CONC CONCRETE	HP HIGH POINT	SDM STORM DRAIN MANHOLE
C&G CURB & GUTTER	IRR IRRIGATION	SD STORM DRAIN
CG&S CURB, GUTTER & SIDEWALK	INV INVERT	SE SOUTHEAST
CH CHORD	I.E. INVERT ELEVATION	SS SANITARY SEWER
CL CENTERLINE	JP JOINT POLE	SSCO SANITARY SEWER CLEAN OUT
CMP CORRUGATED METAL PIPE	L LENGTH	SSMH SANITARY SEWER MANHOLE
CR CURB RETURN	LF LINEAL FEET	SWCT SAWCUT
CTV CABLE TV	LIP LIP OF GUTTER	SWD SIDEWALK OR SOUTHWEST
DCDA DOUBLE CHECK DETECTOR	LP LOW POINT	STA STATION
ASSEMBLY	LT LEFT TURN OR LEFT	TC TOP OF CURB
DI DRAIN / DROP INLET	MAX MAXIMUM	TP TOP OF PAVEMENT
DIP DUCTILE IRON PIPE	MH MAINTENANCE HOLE	TS TOP OF SIDEWALK
DS DOWN SPOUT	MIN MINIMUM	TW TOP OF WALL
(E) EXISTING	NE NORTHEAST	UNO UNLESS NOTED OTHERWISE
EC END CURVE	NW NORTHWEST	W WATER
ECR END CURB RETURN	OC ON CENTER	WV WATER VALVE
EP EDGE OF PAVEMENT	OH OVERHEAD	WM WATER METER
ETW EDGE OF TRAVELED WAY	OHT&E OVERHEAD TELEPHONE & ELECTRIC	WWF WELDED WIRE FABRIC
EVC END OF VERTICAL CURVE	OMP OPEN METAL PIPE	VCP VITRIFIED CLAY PIPE
FDC FIRE DEPARTMENT CONNECTION	(P) PROPOSED	VIF VERIFY-IN-FIELD
FF FINISH FLOOR	PCC PORTLAND CEMENT CONCRETE	
FG FINISHED GROUND	OR POINT OF COMPOUND CURVE	
FGBW FINISHED GROUND @ BOT. WALL	PG PROFILE GRADE	
FGTW FINISHED GROUND @ TOP OF WALL	PIV POST INDICATOR VALVE	
FH FIRE HYDRANT	PL PROPERTY LINE	



Know what's below.
Call before you dig.
or (800) 227-2600

UTILITY CONTACT INFORMATION		
UTILITY	AGENCY	PHONE
GAS	P.G. & E.	(800) 743-5000
ELECTRIC	P.G. & E.	(800) 743-5000
FIRE	ALAMEDA COUNTY FIRE DEPARTMENT	(510) 632-3473
WATER	ALAMEDA COUNTY WATER DISTRICT	(510) 668-4200
SEWER	EAST BAY MUNICIPAL UTILITY DISTRICT	(866) 403-2683
DRAINAGE	ALAMEDA COUNTY PUBLIC WORKS AGENCY	(510) 670-5480
U.S.A.	UNDERGROUND SERVICE ALERT	1-800-227-2600

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

SHEET INDEX:

- C1 TITLE SHEET
- C2 GENERAL NOTES
- C3 HORIZONTAL CONTROL PLAN
- C4 GRADING & DRAINAGE PLAN
- C5 EROSION & SEDIMENT CONTROL PLAN
- C6 EROSION & SEDIMENT CONTROL DETAILS
- C7 CONSTRUCTION DETAILS

BENCHMARK:

THE BENCHMARK FOR THIS SURVEY IS AN NGS TRIANGULATION STATION DISK PID "HS4994", STAMPED "MEDA 1946" SET IN CONCRETE. LOCATED 36.6 FEET WEST OF TELEPHONE POLE 56, 10 FEET SOUTH OF THE SOUTH EDGE OF PAVEMENT OF GRANT LINE ROAD, AS SHOWN ON SHEET 2 OF THIS MAP.

ELEVATION = 229.00 FEET (NAVD 88 DATUM)

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 2, GRID NORTH, AS ESTABLISHED BY GPS OBSERVATIONS.

FLOOD PLAIN:

SUBJECT PROPERTY IS LOCATED WITHIN ZONE X WHICH IS WITHIN AN AREA PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD. FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO.: (06001C0225G) DATED: (AUGUST 3, 2009)

ZONING:

EXISTING: AGRICULTURAL (A)
PROPOSED: NO CHANGE

JURISDICTION:

ALAMEDA COUNTY

PROPERTY OWNER / DEVELOPER:

MANINDER SANDHU
3972 DURHAM FERRY RD
TRACY, CA 95304
manil.sandhu@gmail.com

GEOTECHNICAL REPORT:

REPORT BY:
REPORT NO.:
DATED:

APPROVED BY:	DATE:
COUNTY ENGINEER	DATE
APPROVED BY:	DATE
WATER AGENCY	DATE
ALAMEDA COUNTY FIRE DEPARTMENT	
APPROVED AS TO FIRE SERVICE LOCATIONS ONLY. MAIN SIZE DETERMINED BY ALAMEDA COUNTY WATER DISTRICT	
BY:	DATE
EAST BAY MUNICIPAL UTILITY DISTRICT	
PLAN CHECKER	DATE
O.K. TO SUBMIT FOR GRID NUMBERING AFTER ALL SEWER CONSTRUCTION IS COMPLETE	
SEWER INSPECTOR	DATE
BILLING NUMBER:	
ALAMEDA COUNTY PUBLIC WORKS AGENCY	
PROJECT TITLE: ALAMEDA SOLAR	
ASSESSORS PARCEL NUMBER: 099B-7650-007-01	
APPROVED:	
ORDER NUMBER:	DRAINAGE FEE:
CHECKED BY:	DRAINAGE APPROVED:

APPROVED BY

DATE

REVISION

NO.	DESCRIPTION	DATE

BY

CHECK NO.

DESIGN

DRAWN

QUANT.

ORIGINAL SCALE IS IN INCHES

PROFESSIONAL SEAL

RFE ENGINEERING, INC.

civil engineers • planners • surveyors

2260 Douglas Blvd., Suite 160, Roseville, CA 95661

Ph: 916-772-7200 Fax: 916-772-7804

www.rfeengineering.com

SOLTAGE

66 YORK ST., 5TH FLOOR

JERSEY CITY, NJ, 07302

ALAMEDA GRANT LINE SOLAR 1

W GRANT LINE RD

UNINCORPORATED

ALAMEDA COUNTY, 95391

TITLE SHEET

Sheet

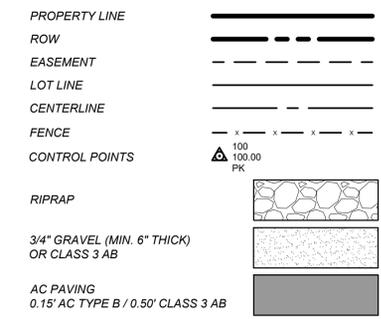
C1

1 of 7

06/22/2021

RFE PROJECT 21-067 - ALAMEDA SOLAR; GRANT LINE RD, MOUNTAIN HOUSE, CA

LEGEND:



NOTE:
 SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

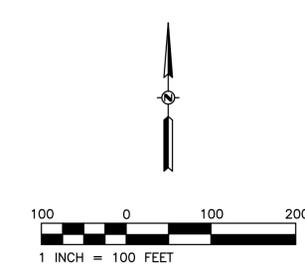
DESIGN	DRAWN	QUANT.	BY	CHECK	NO.	DATE	BY	APPRVD



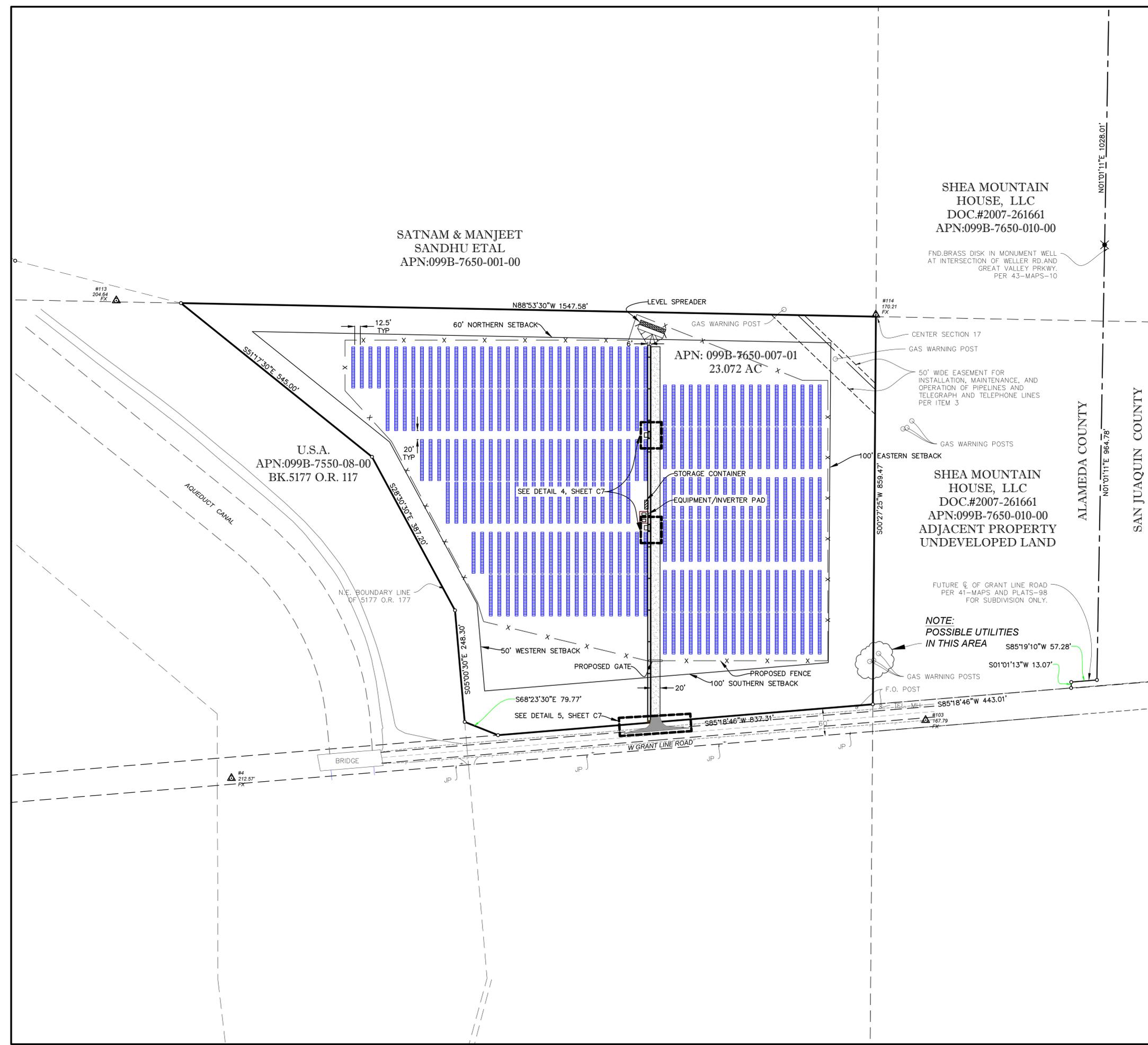
RFE ENGINEERING, INC.
 Civil Engineers - Planners - Surveyors
 2260 Douglas Blvd., Suite 160, Roseville, CA 95661
 Ph: 916-772-7860 Fax: 916-772-7864
 www.RFEengineering.com

SOLTAGE
 66 YORK ST., 5TH FLOOR
 JERSEY CITY, NJ, 07302

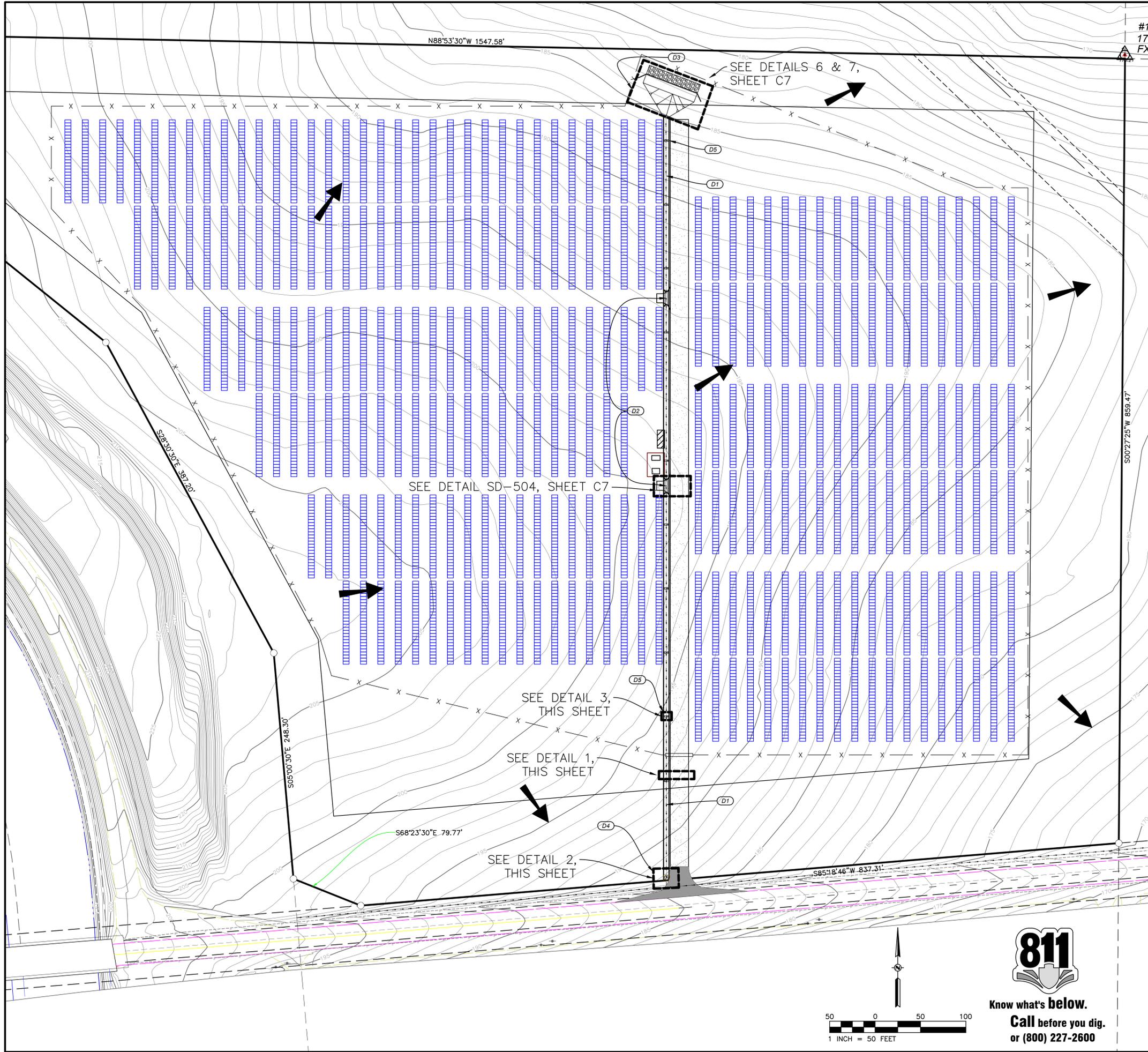
ALAMEDA GRANT LINE SOLAR 1
 W GRANT LINE RD
 UNINCORPORATED
 ALAMEDA COUNTY, 95391
HORIZONTAL CONTROL PLAN



811
 Know what's below.
 Call before you dig.
 or (800) 227-2600



RFE PROJECT 21-067 - ALAMEDA SOLAR; GRANT LINE RD; MOUNTAIN HOUSE, CA



LEGEND:

- RIPRAP
- GRAVEL
- ROCK CHECK DAMS
- OVERLAND RELEASE
- DRAINAGE FLOW
- INTERMEDIATE CONTOURS
- INDEX CONTOUR

DRAINAGE KEYNOTES:

- (D1) CONSTRUCT 6 FT WIDE TRIANGULAR CHANNEL WITH A 2:1 SLOPE PER DETAIL 1. SEE THIS SHEET
- (D2) INSTALL 15 LF 12" RCP WITH FLARED END SECTIONS PER DETAIL SD-504, SEE SHEET C7.
- (D3) CONSTRUCT 60 FT X 2 FT LEVEL SPREADER WITH RIPRAP AND FABRIC UNDERLAYMENT. USE CALTRANS CLASS 2 RIPRAP WITH CALTRANS TYPE A FILTER FABRIC PER DETAILS 6 & 7, SEE SHEET C7.
- (D4) CONSTRUCT 6 FT X 6 FT SECTION OF CALTRANS CLASS 2 RIPRAP WITH CALTRANS TYPE A FILTER FABRIC AT THE CONNECTION POINT OF THE PROPERTY DITCH AND THE PUBLIC DITCH PER DETAIL 2. SEE THIS SHEET.
- (D5) CONSTRUCT ROCK CHECK DAMS EVERY 70 FT FROM THE ELEVATION HIGH POINT PER DETAIL 3. SEE THIS SHEET.

NOTE:
VERIFY ALL UTILITY LOCATIONS, PIPE ELEVATIONS, ETC. PRIOR TO CONSTRUCTION.

DETAIL 1 - ROAD AND DITCH SECTION VIEW
NOT TO SCALE

DETAIL 2 - SITE TO ROADSIDE DITCH CONNECTION
NOT TO SCALE

DETAIL 3 - ROCK CHECK DAM SECTION VIEW
NOT TO SCALE

811
Know what's below.
Call before you dig.
or (800) 227-2600

1 INCH = 50 FEET

REVISION	DATE	BY	APPROVED

DESIGN: [Signature]
DRAWN: [Signature]
QUANT.: 0

ORIGINAL SCALE IS 1/4" = 1'

RF E ENGINEERING, INC.
Civil Engineers - Planners - Surveyors
2260 Douglas Blvd., Suite 160, Roseville, CA 95661
Ph: 916-772-7800 Fax: 916-772-7804
www.rfengineering.com

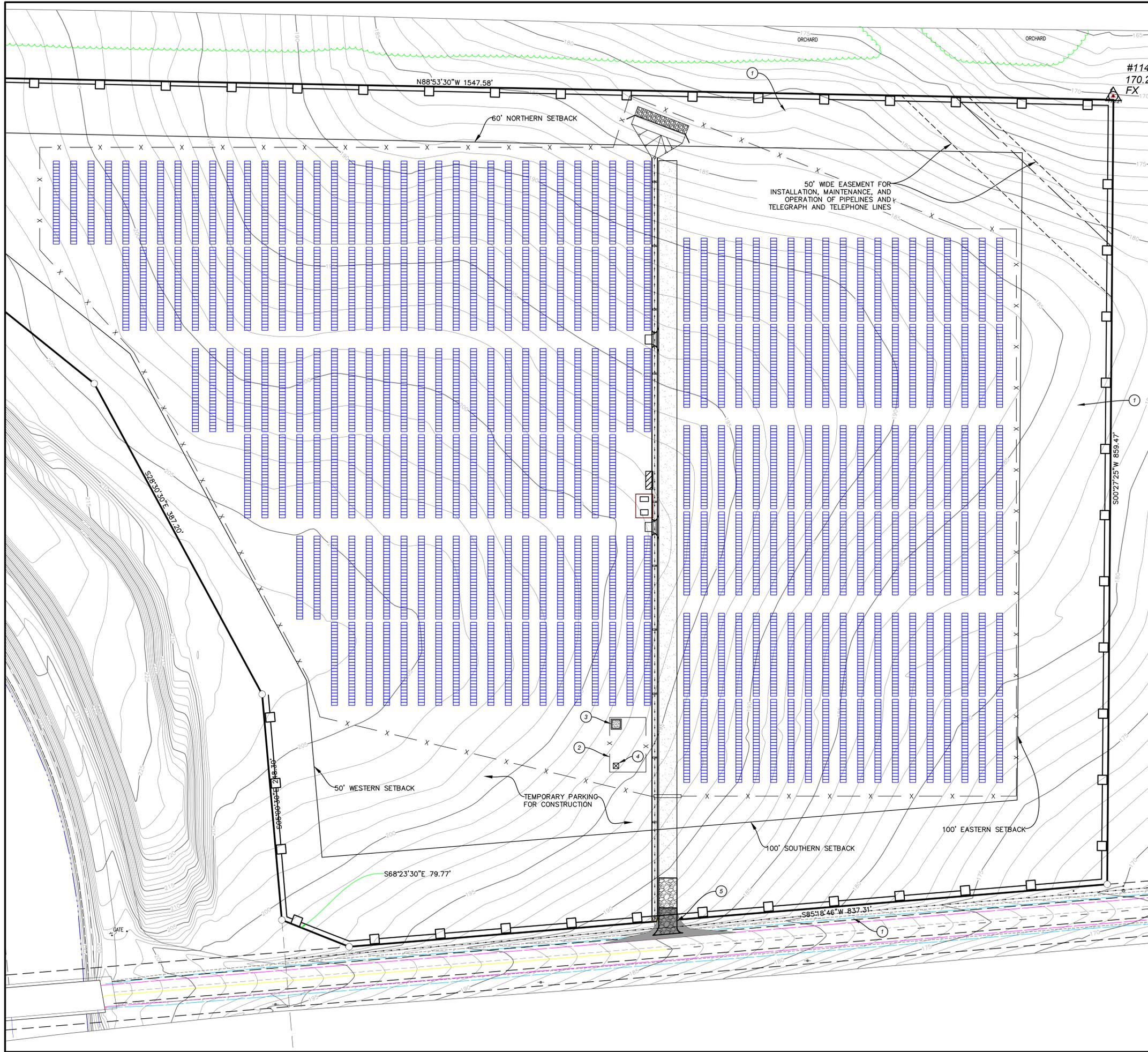
SOLTAGE
66 YORK ST., 5TH FLOOR
JERSEY CITY, NJ, 07302

ALAMEDA GRANT LINE SOLAR 1
W GRANT LINE RD
UNINCORPORATED
ALAMEDA COUNTY, 95391

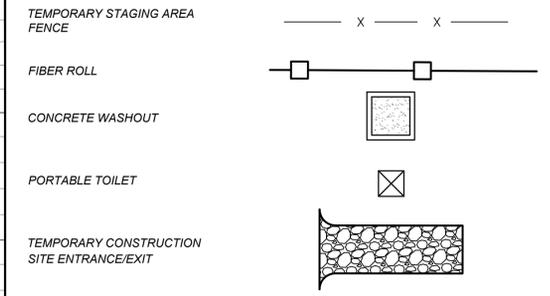
GRADING & DRAINAGE PLAN

Sheet
C4
4 of 7
06/22/2021

RF E PROJECT 21-067 - ALAMEDA SOLAR; GRANT LINE RD, MOUNTAIN HOUSE, CA



LEGEND:



CONSTRUCTION KEYNOTES:

- 1 PLACE FIBER ROLL
- 2 STAGING AREA, MATERIAL STORAGE, TEMPORARY STOCKPILE STORAGE AREA, FUELING AREA.
- 3 CONSTRUCT CONCRETE WASHOUT
- 4 PLACE PORTABLE TOILET(S) FOR USE DURING CONSTRUCTION AND ANCHOR TO PREVENT OVERTURNING
- 5 CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE / EXIT

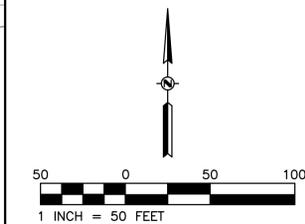
NOTE:
 1. CONTRACTOR TO DETERMINE SPECIFIC LOCATIONS AND BMPs EMPLOYED FOR EROSION AND SEDIMENT CONTROL, EITHER NOT SHOWN ON PLAN OR IN ADDITION TO PLAN (AS NEEDED). HYDROSEEDING (PER CASQA MANUAL) OF PERMANENTLY EXPOSED SOIL AND EROSION CONTROL BLANKETS TO BE USED IN COMBINATION (AS REQUIRED) DURING CONSTRUCTION TO PREVENT EROSION.

PROFESSIONAL SEAL
 REGISTERED PROFESSIONAL ENGINEER
 No. 64814
 Exp. 6-30-23
 6/22/21
 CIVIL
 STATE OF CALIFORNIA

RFE ENGINEERING, INC.
 civil engineers • planners • surveyors
 2260 Douglas Blvd., Suite 160, Roseville, CA 95661
 Ph: 916-772-2600 Fax: 916-772-7804
 www.rfeengineering.com

SOLTAGE
 66 YORK ST, 5TH FLOOR
 JERSEY CITY, NJ, 07302

ALAMEDA GRANT LINE SOLAR 1
 W GRANT LINE RD
 UNINCORPORATED
 ALAMEDA COUNTY, 95391
EROSION & SEDIMENT CONTROL PLAN



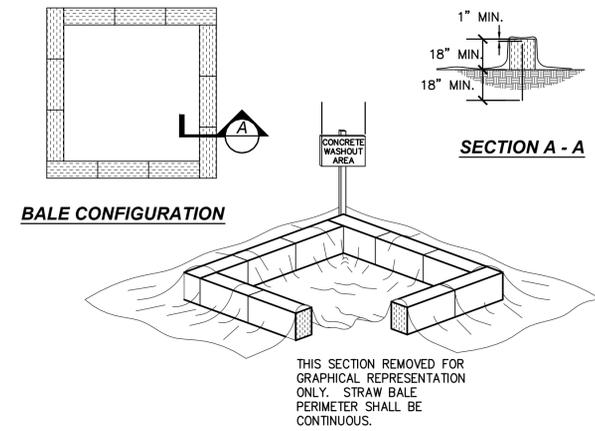
811
 Know what's below.
 Call before you dig.
 or (800) 227-2600

RFE PROJECT 21-067 - ALAMEDA SOLAR; GRANT LINE RD, MOUNTAIN HOUSE, CA

EROSION AND SEDIMENT CONTROL NOTES:

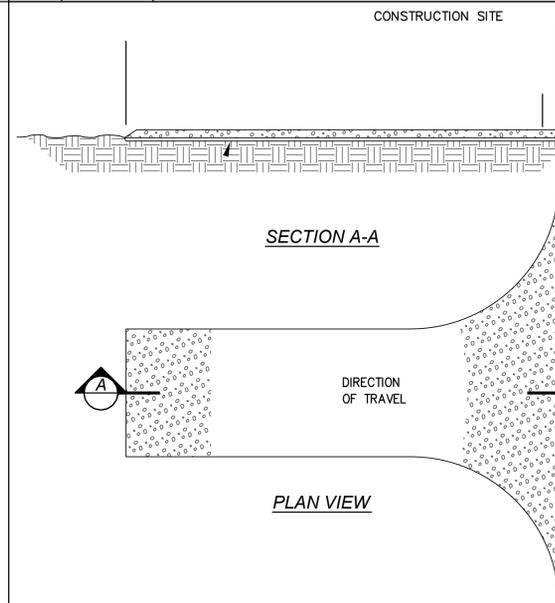
- THE CONTRACTOR SHALL FOLLOW ALL JURISDICTIONAL GUIDELINES FOR GRADING AND THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN OR STATED ON THESE PLANS.
- CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO OCTOBER 1.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE AND AFTER ALL STORMS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- CONTRACTOR SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR MAINTENANCE OF BMPs, AS WELL AS, ANY CORRECTIVE CHANGES TO THE BMPs OR EROSION AND SEDIMENT CONTROL PLAN.
- IN AREAS WHERE SOIL WILL BE EXPOSED LONGER THAN 14 DAYS, CONTRACTOR SHALL STABILIZE EXPOSED SOILS WITH HYDROSEEDING OR OTHER EQUIVALENT METHOD. CONTRACTOR SHALL ENSURE NO AREAS WILL BE LEFT EXPOSED OVER THE WINTER SEASON.
- THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF GRADING. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE. THE STABILIZED CONSTRUCTION ENTRANCE SHALL REMAIN IN PLACE UNTIL THE ROAD BASE ROCK COURSE IS COMPLETED.
- ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY OR AS NECESSARY.
- CONTRACTOR SHALL PLACE GRAVEL BAG BARRIERS AROUND ALL NEW DRAINAGE STRUCTURE OPENINGS IMMEDIATELY AFTER THE STRUCTURE OPENING IS CONSTRUCTED. THESE GRAVEL BAG BARRIERS SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.
- SOIL STOCKPILE SHALL BE SURROUNDED BY STRAW WATTLE. CONTRACTOR SHALL COVER STOCKPILE WHEN NOT IN USE.

- CONTRACTOR SHALL IMPLEMENT HOUSEKEEPING PRACTICES AS FOLLOWS:
 - SOLID WASTE MANAGEMENT:**
PROVIDE DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS. ARRANGE FOR REGULAR REMOVAL AND DISPOSAL. CLEAR SITE OF TRASH INCLUDING ORGANIC DEBRIS, PACKAGING MATERIALS, SCRAP OR SURPLUS BUILDING MATERIALS AND DOMESTIC WASTE DAILY.
 - MATERIAL DELIVERY AND STORAGE:**
PROVIDE A DESIGNATED MATERIAL STORAGE AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. STORE MATERIAL ON PALLETS AND PROVIDE COVERING FOR SOLUBLE MATERIALS. RELOCATE STORAGE AREA INTO BUILDING SHELL WHEN POSSIBLE. INSPECT AREA WEEKLY.
 - CONCRETE WASTE:**
PROVIDE A DESIGNATED AREA FOR A TEMPORARY PIT TO BE USED FOR CONCRETE TRUCK WASH-OUT. DISPOSE OF HARDENED CONCRETE OFFSITE. AT NO TIME SHALL A CONCRETE TRUCK DUMP ITS WASTE AND CLEAN ITS TRUCK INTO THE CITY STORM DRAINS VIA CURB AND GUTTER. INSPECT DAILY TO CONTROL RUNOFF, AND WEEKLY FOR REMOVAL OF HARDENED CONCRETE.
 - PAINT AND PAINTING SUPPLIES:**
PROVIDE INSTRUCTION TO EMPLOYEES AND SUBCONTRACTORS REGARDING REDUCTION OF POLLUTANTS INCLUDING MATERIAL STORAGE, USE, AND CLEAN UP. INSPECT SITE WEEKLY FOR EVIDENCE OF IMPROPER DISPOSAL.
 - VEHICLE FUELING, MAINTENANCE AND CLEANING:**
PROVIDE A DESIGNATED FUELING AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. DO NOT ALLOW MOBILE FUELING OF EQUIPMENT. PROVIDE EQUIPMENT WITH DRIP PANS. RESTRICT ON-SITE MAINTENANCE AND CLEANING OF EQUIPMENT TO A MINIMUM. INSPECT AREA WEEKLY.
 - HAZARDOUS WASTE MANAGEMENT:**
PREVENT THE DISCHARGE OF POLLUTANTS FROM HAZARDOUS WASTES TO THE DRAINAGE SYSTEM THROUGH PROPER MATERIAL USE, WASTE DISPOSAL AND TRAINING OF EMPLOYEES. HAZARDOUS WASTE PRODUCTS COMMONLY FOUND ON-SITE INCLUDE BUT ARE NOT LIMITED TO PAINTS & SOLVENTS, PETROLEUM PRODUCTS, FERTILIZERS, HERBICIDES & PESTICIDES, SOIL STABILIZATION PRODUCTS, ASPHALT PRODUCTS AND CONCRETE CURING PRODUCTS.
- THE FOLLOWING SOIL WIND EROSION CONTROL (DUST CONTROL) METHODS ARE PROPOSED AS PART OF THESE IMPROVEMENT PLANS:
 - WATER THE SOIL OF THE SITE AND THE ADJACENT STREETS BEING USED IN CONNECTION WITH SOIL DISTURBANCE OPERATIONS ON THE SITE IN ACCORDANCE WITH CALTRANS STANDARDS.
 - COVER EXPOSED SOIL WITH GRAVEL OR ROCK LANDSCAPING.
 - COVER EXPOSED SOIL WITH ORGANIC MULCHES, SPRINKLER IRRIGATED.
 - IRRIGATE GRASSES.
 - MAINTAIN LANDSCAPE VEGETATION.
- REFER TO THE PROJECT SWPPP FOR ADDITIONAL EROSION AND SEDIMENT CONTROL REQUIREMENTS AND RECOMMENDATIONS.



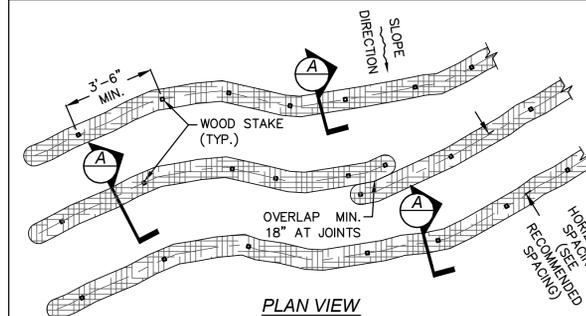
- NOTES:**
- FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT.
 - CONCRETE WASHOUT SHALL BE LOCATED BEHIND THE CURB AND 50 FT. MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES

5 NTS CONCRETE WASHOUT



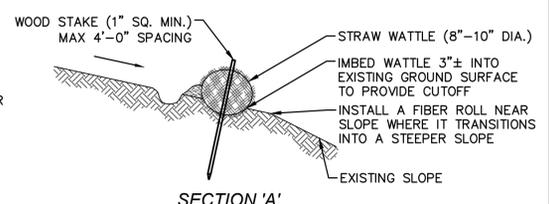
- NOTE:**
- STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF CRUSHED AGGREGATE (WASHED) BETWEEN 3-6 INCHES. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 12 INCHES.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING WITH MATERIAL (AS SPECIFIED IN NOTE 1), REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 - WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
 - LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MINIMUM OF 15 FEET OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADII, MIN. 20-FOOT RADIUS.
 - ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

4 NTS CONSTRUCTION ENTRANCE



- RECOMMENDED MAX SPACING:**
4:1 SLOPE OR FLATTER: 20 FT. INTERVAL
BETWEEN 4:1 & 2:1 : 15 FT. INTERVAL
2:1 SLOPE OR MORE: 10 FT. INTERVAL MAX..
- RECOMMENDED PLACEMENT (AS APPLICABLE):**
- ALONG TOE, TOP, FACE AND AT GRADE BREAKS OF EXPOSED AND ERODABLE SLOPES.
 - ALONG PERIMETER OF PROJECT.
 - AS CHECK DAMS ON UNLINED, MINIMALLY SLOPED DITCHES.
 - AROUND TEMPORARY STOCKPILES.

- NOTES:**
- STRAW WATTLES TO BE PLACED ALONG SITE CONTOURS.
 - HORIZONTAL SPACING VARIES DEPENDING ON SOIL TYPE AND STEEPNESS, SEE PLAN (5' MIN - 25' MAX.)
 - RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
 - STRAW WATTLE SHALL BE RICE STRAW ONLY. USE OF FIBER ROLLS, WHEAT GRASS, OR RYE STRAW NOT PERMITTED.
 - AT ENDS OF A ROW TURN THE LAST TWO FEET UP SLOPE SLIGHTLY



1 NTS FIBER ROLL

PHASE OF CONSTRUCTION	(WET SEASON)						(WET AND DRY SEASON)						
	HYDRO-SEEDING	STRAW MULCHING & TACKIFIER	PRESERVATION OF EXISTING VEGETATION	SOIL BINDERS	FIBER ROLLS	OUTLET PROTECTION	STORM DRAIN INLET PROTECTION	DEWATERING	STABILIZED CONSTRUCTION ENTRANCE	MATERIAL & WASTE DISPOSAL LOCATION	CONCRETE WASHOUT	DUST CONTROL	SEDIMENT TRAP
PRE-GRADING			●		●		●		●	●		●	●
CUT AND FILL QUANTITIES	●	●		●				●				●	●
UNDERGROUND WORK												●	●
STORM DRAIN IMPROVEMENTS						●					●	●	●
CURB & GUTTER							●					●	●
STREET IMPROVEMENTS					●							●	●
POST CONSTRUCTION	●	●	●										

- NOTES:**
- ALL EROSION BMPs SHALL BE IN PLACE PRIOR TO STORM EVENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF SECTION II OF THE IMPROVEMENT STANDARDS AND THE CALIFORNIA STORM WATER HANDBOOK.
 - MAINTAIN BMPs AS NECESSARY.

APPRVD	
BY	
DATE	
REVISION	
CHECK NO.	
BY	
DESIGN	
DRAWN	
QUANT.	
ORIGINAL SCALE IS IN INCHES	2

REGISTERED PROFESSIONAL ENGINEER
 No. 44814
 Exp. 6-30-23
 6/22/21
 CIVIL
 STATE OF CALIFORNIA

RFE ENGINEERING, INC.
 Civil Engineers • Planners • Surveyors
 2260 Douglas Blvd., Suite 160, Roseville, CA 95661
 Ph: 916-972-7860 Fax: 916-772-7864
 www.RFEEngineering.com

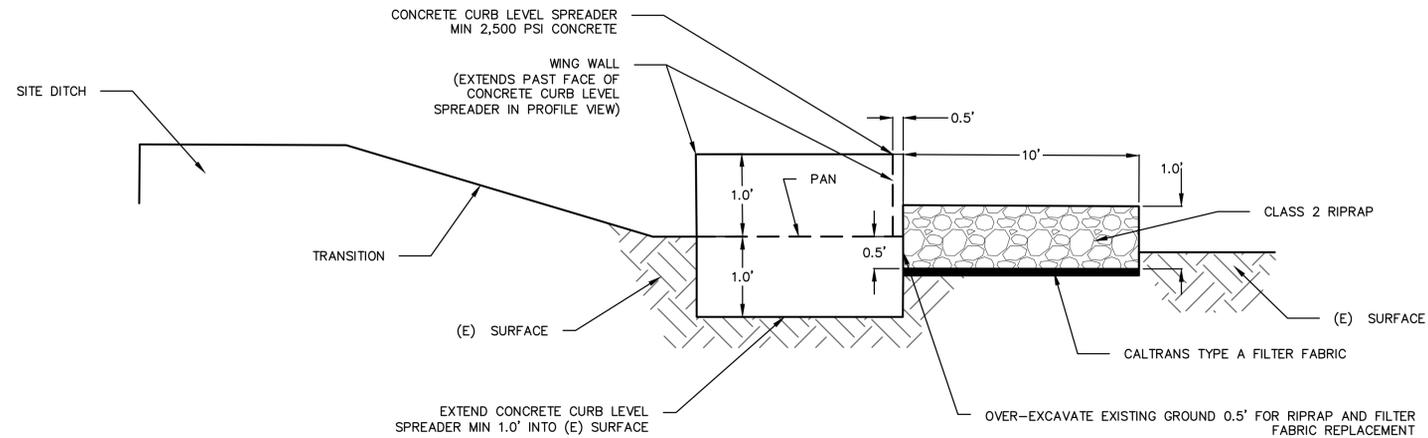
SOLTAGE
 66 YORK ST., 5TH FLOOR
 JERSEY CITY, NJ, 07302

ALAMEDA GRANT LINE SOLAR 1
 W/ GRANT LINE RD
 UNINCORPORATED
 ALAMEDA COUNTY, 95591

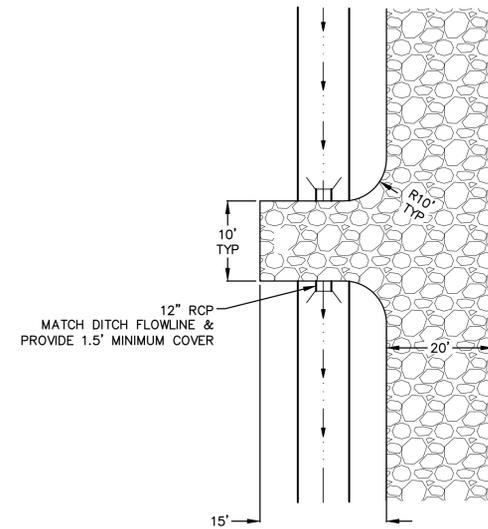
EROSION & SEDIMENT CONTROL NOTES & DETAILS

Sheet
C6
 6 of 7
 06/22/2021

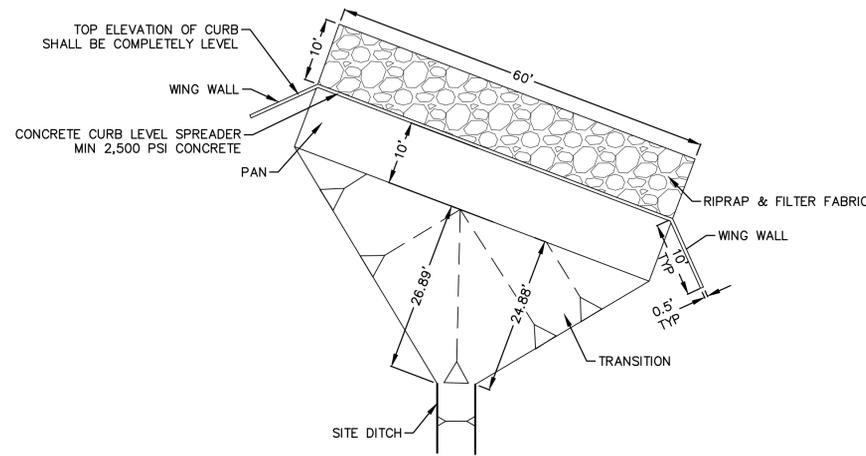
RFE PROJECT 21-067 - ALAMEDA SOLAR; GRANT LINE RD; MOUNTAIN HOUSE, CA



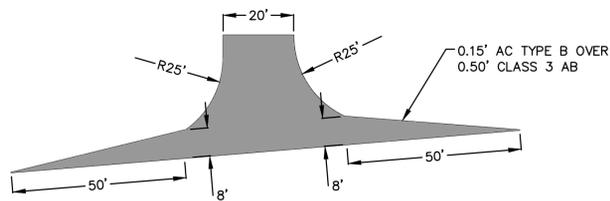
DETAIL 7 - LEVEL SPREADER PROFILE VIEW
NOT TO SCALE



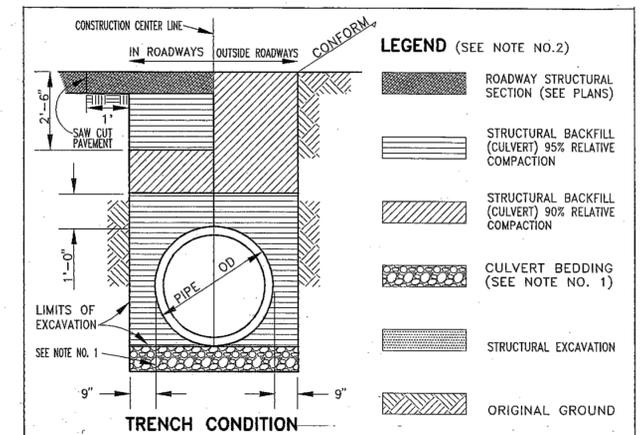
DETAIL 4 - DRIVEWAY TURNOUT
NOT TO SCALE



DETAIL 6 - LEVEL SPREADER
NOT TO SCALE



DETAIL 5 - DRIVEWAY APRON
NOT TO SCALE



- NOTES:**
- EXCAVATE UNSUITABLE SUBGRADE BELOW THE LIMIT OF EXCAVATION AND REPLACE WITH CULVERT BEDDING MATERIAL, ONLY IF SO DIRECTED BY THE ENGINEER. OVER EXCAVATION DUE TO FAILURE OF THE CONTRACTOR TO MAINTAIN SUBGRADE SHALL BE REPLACED WITH CULVERT BEDDING AT THE CONTRACTOR'S EXPENSE.
 - MATERIALS SHALL CONFORM TO THE ALAMEDA COUNTY PUBLIC WORKS AGENCY SPECIFICATIONS AND THE CALTRANS STANDARD SPECIFICATIONS AS MODIFIED BY COUNTY SPECIAL PROVISIONS. REINFORCED CONCRETE PIPE SHALL BE CLASS III, MINIMUM.
 - FOR PIPES INSTALLED IN AN EMBANKMENT CONDITION, THE CONTRACTOR SHALL ENSURE THAT MINIMUM EMBANKMENT HEIGHT CRITERIA IS SATISFIED PRIOR TO EXCAVATING THE TRENCH. EMBANKMENT HEIGHT PRIOR TO EXCAVATION FOR PIPE INSTALLATION SHALL BE 2/3 O.D. (MIN. OF 30") FOR PIPES UP TO 84" I.D. FOR PIPES GREATER THAN 84" I.D., 60" MINIMUM EMBANKMENT IS REQUIRED. SEE SHEET NO. 2.
 - WHERE PIPE COVER IS LESS THAN 36 INCHES, THE PIPE LOAD CARRYING CAPACITY SHALL BE INCREASED AND OTHER MODIFICATIONS MADE AS APPROVED BY THE ENGINEER.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

REVISIONS		DATE		SCALE		FILE NO.	
EA	ALC	MARCH	1994	NONE	SD-504	1	of 2

TYPICAL PIPE SECTION

APPROVED: *[Signature]*
COUNTY ENGINEER

REVISION	DATE	BY	APPRVD

PROFESSIONAL ENGINEER
No. 64814
Exp. 6-30-23
6/22/21
CIVIL
STATE OF CALIFORNIA

RFE ENGINEERING, INC.
civil engineers • planners • surveyors
2260 Douglas Blvd., Suite 160, Roseville, CA 95661
Ph: 916-772-7800 Fax: 916-772-7804
www.rfeengineering.com

SOLTAGE
66 YORK ST., 5TH FLOOR
JERSEY CITY, NJ, 07302

ALAMEDA GRANT LINE SOLAR 1
W GRANT LINE RD
UNINCORPORATED
ALAMEDA COUNTY, 95391
CONSTRUCTION DETAILS

Sheet
C7
7 of 7
06/22/2021

RFE PROJECT 21-067 - ALAMEDA SOLAR; GRANT LINE RD, MOUNTAIN HOUSE, CA