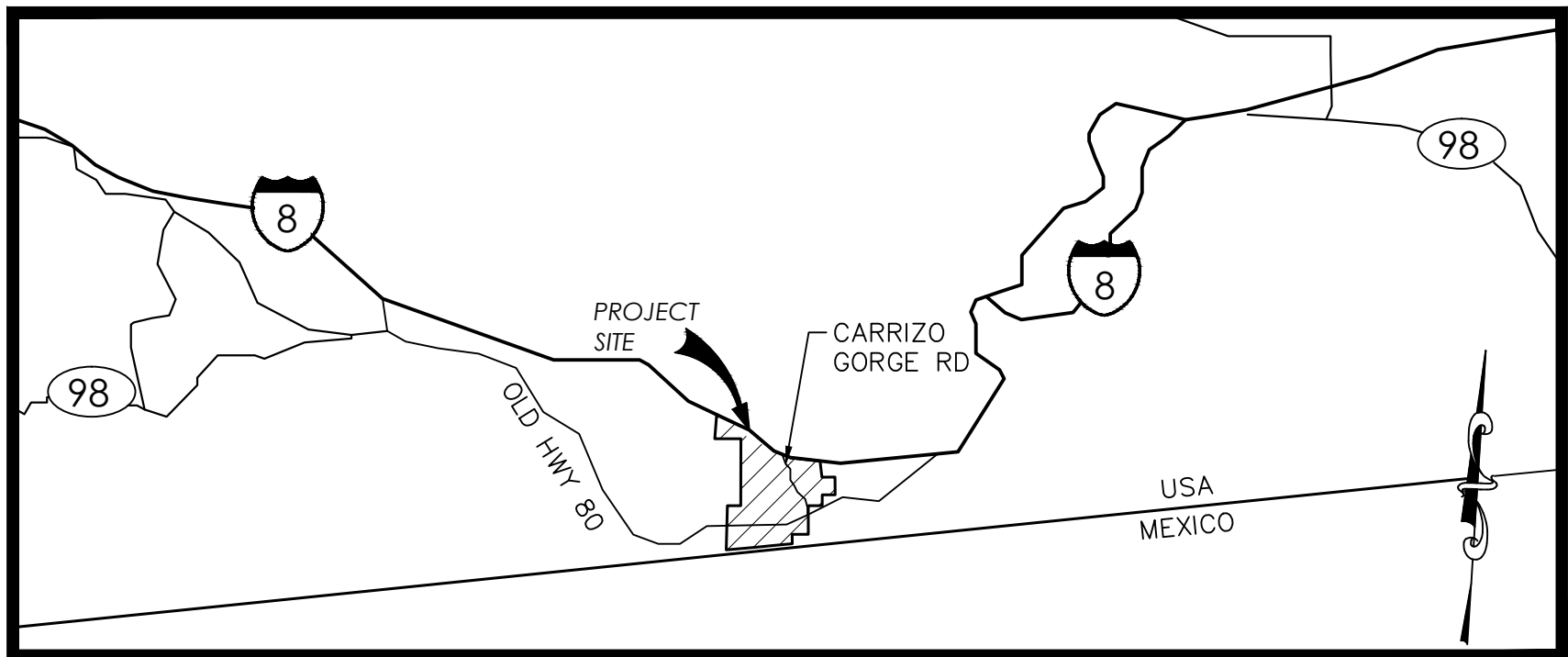


COUNTY OF SAN DIEGO, CA
PDS2018-GPA-18-010, PDS2018-REZ-18-007,
PDS2018-MUP-18-022

GEOTECHNICAL
NINYO & MOORE GEOTECHNICAL &
ENVIRONMENTAL SCIENCES CONSULTANTS
NISSA MORTON
5710 RUFFIN ROAD
SAN DIEGO, CA 92123
(858) 576-1000



VICINITY MAP
NOT TO SCALE
T.B. 1300 H3-H6 & J3-J6

APN	ASSESSOR'S PARCEL NUMBER
CL	CENTERLINE
(E)	EXISTING
EOP	EDGE OF PAVEMENT
MIN	MINIMUM
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
(P)	PROPOSED
P/L	PROPERTY LINE
PV	PHOTOVOLTAIC
ROW	RIGHT-OF-WAY
SAT	SINGLE-AXIS TRACKER
TBD	TO BE DETERMINED
TYP	TYPICAL
VAR	VARIES

SHEET INDEX		
SHEET	NUMBER	SHEET TITLE
1	001	COVER SHEET
2	002	NOTES
3	003	NOTES
4	400	BMP PLAN
5	700	OVERALL GRADING PLAN
6	701	ENLARGED GRADING PLAN
7	702	ENLARGED GRADING PLAN
8	703	ENLARGED GRADING PLAN
9	704	ENLARGED GRADING PLAN
10	705	SECTIONS
11	706	SECTIONS
12	707	SECTIONS
13	708	SECTIONS

PHONE NUMBER: (832) 303-2477

RCE NO: 78103


THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR THE PERMIT/APPROVAL TO VIOLATE ANY FEDERAL, STATE, OR COUNTY LAWS, ORDINANCES, REGULATORY POLICIES INCLUDING, BUT NOT LIMITED TO THE FEDERAL ENDANGERED SPECIES ACT AND CLEAN WATER ACT, GRADING AND/OR FURTHER DEVELOPMENT ARE PROHIBITED WITHIN THE AREAS DESIGNATED "LIMITS OF JURISDICTIONAL HABITAT" UNTIL FEDERAL PERMITS AND STATE PERMITS (IF ANY) HAVE BEEN ACQUIRED.

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GRADING AND DRAINAGE WORK CONSISTS OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT SAN DIEGO AREA REGIONAL STANDARD DRAWINGS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND PER SAN DIEGO COUNTY GRADING ORDINANCE.

	PROPERTY LINE
	MUP BOUNDARY
	CENTER LINE
	SETBACK LINE
	EASEMENT LINE
	EXISTING WATER LINE
	EXISTING OVERHEAD ELECTRIC
	PROPOSED SITE PERIMETER FENCE.
	PROPOSED SUBSTATION FENCE
	PROPOSED LANDSCAPE BUFFER
	PROPOSED ALL WEATHER ACCESS DRIVE.

EXISTING STRUCTURES

 PROPOSED PAVED ACCESS DRIVE. PAVED IMPROVEMENTS SHOULD BE COORDINATED WITH THE ADJACENT LANDOWNER UNLESS EXPLICIT RIGHTS ARE HELD TO MAKE SUCH IMPROVEMENTS.

	EXISTING SDG&E TRANSMISSION TOWER
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● WELL TO REMAIN

 WELL TO BE DECOMMISSIONED

- PROPOSED WATER TANK

■ PROPOSED METEOROLOGICAL STATION

 30-FT WIDE FUEL MODIFICATION ZONE
NO ELECTRICAL EQUIPMENT PERMITTED

SUBJECT TO INUNDATION BY THE CALCULATED
100-YEAR FLOOD (ABOVE 6-INCHES IN DEPTH)

DRAINAGE FEATURES

— — — 50' DRAINAGE FEATURE BUFFER

STORMWATER STRUCTURAL POLLUTANT CONTROL & HYDROMODIFICATION CONTROL BMPs				
DESCRIPTION/TYPE	PLAN SHEET	BMP ID#	MAINTENANCE CATEGORY	MAINTENANCE AGREEMENT RECORDED DOC#

* BMP'S APPROVED AS PART OF THIS STORMWATER QUALITY MANAGEMENT PLAN (SWQMP) DATED 11/1/18 ON FILE WITH DPW. ANY CHANGES TO THE ABOVE BMP'S WILL REQUIRE SWQMP REVISION AND PLAN CHANGE APPROVALS. SEE BMP PLAN SHEET 400 (13 OF 13) FOR BMP'S.

SITE ADDRESS: OLD HIGHWAY 80, CALIFORNIA



DATE: _____

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TENTATIVE MAP NO. N/A

FILE SHEET FOR:

FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, E

NAD83, EPOCH 2010.00

ENGINEER OF WORK

DAVID M. BOSSU (78103)

GRADING PERMIT NO: 5500010 - 1.00RM - 700

ENGINEER'S NAME: DAVID M. BOSSU
PHONE NO. (714)705-1347 // EMAIL: DAVID.BOSSU@KIMLEY-HORN.COM

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHOULD BE FAMILIAR WITH ALL STATE AND LOCAL REQUIREMENTS RELATED TO SITE CONSTRUCTION ACTIVITIES PRIOR TO COMMENCING WORK. ALL WORK SHALL CONFORM AS APPLICABLE TO THESE GOVERNING STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS. IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS, CONTRACTOR SHALL CLEAR AND GRUB ONLY AREAS INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING RECORD INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING RECORD DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED.
10. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
11. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
13. ANY EXISTING UTILITY, WHICH IS TO BE EXTENDED, WHICH IS THE CONNECTION POINT FOR NEW UNDERGROUND UTILITIES, OR WHICH NEW FACILITIES CROSS, SHALL BE EXPOSED BY THE CONTRACTOR PRIOR TO PLACEMENT OF THE NEW UTILITIES. COST OF SUCH EXCAVATION AND SUBSEQUENT BACKFILL SHALL BE INCLUDED IN THE PRICES PAID FOR THE VARIOUS ITEMS OF WORK. THE ELEVATIONS AND LOCATIONS OF THE EXISTING FACILITIES WILL BE CHECKED BY THE PUBLIC WORKS INSPECTOR AND THE ENGINEER. IF, IN THE OPINION OF THE INSPECTOR, A CONFLICT EXISTS, THEN THE ENGINEER SHALL MAKE ANY NEEDED GRADE AND/OR ALIGNMENT ADJUSTMENTS AND REVISE THE PLANS ACCORDINGLY. ALL GRAVITY FLOW PIPELINES TO BE LAID UPGRADE FROM THE LOWEST POINT STARTING AT THE END OF THE EXISTING IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.
14. CONTRACTOR SHALL NOT STORE ANY CONSTRUCTION MATERIALS WITHIN THE FEMA FLOODPLAIN. LAYDOWN AREAS SHALL BE LOCATED OUTSIDE THE LIMITS OF THE FEMA FLOODPLAIN.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. REFER TO THE DEMOLITION PLAN FOR THE LIMITS OF ASPHALT REMOVAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN AND LANDSCAPE PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED AS NECESSARY PRIOR TO ANY DEMOLITION.
4. CONTRACTOR SHALL ADJUST GRADE OF ANY EXISTING UTILITIES TO REMAIN.

MAINTENANCE

- ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE CHECKED BY A QUALIFIED PERSON ON A SCHEDULE THAT MEETS OR EXCEEDS THE GOVERNING REQUIREMENTS, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
 2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDD AS NEEDED.
 3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
 4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF CONSTRUCTION ENTRANCES AS NEEDED.
 5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
 6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 55 CUBIC YARDS / ACRE.
 7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER.
 8. VEGETATION SHALL BE CLEARED TO NOT EXCEED 6-INCHES IN ARRAY FIELD AND SHALL BE CLEARED TO GRADE WITHIN FIFTY FEET OF TRANSFORMERS.

PAVING, GRADING, AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR DOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND REPAIRED TO EXISTING CONDITION OR BETTER.
3. TRAFFIC CONTROL ON ALL DOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL AN ADEQUATE STABILIZATION OCCURS.
5. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
6. BENEATH GRAVEL AND PAVED DRIVEWAY AREAS, SCARIFICATION OF THE EXISTING SOILS SHOULD EXTEND TO A MINIMUM DEPTH OF ONE FOOT BELOW THE EXISTING GROUND SURFACE OR FINAL SUBGRADE ELEVATION, WHICHEVER IS LOWER.
7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
9. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
10. AREAS OF THE SITE BEING GRADED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER PRIOR TO GRADING. CLEARING AND GRUBBING IS CONSIDERED COMPLETE WHEN SOIL SUPPORTING STRUCTURAL FILL MATERIAL OR SOIL TO BE EXCAVATED AND REUSED AS STRUCTURAL FILL MATERIAL CONTAINS LESS THAN FIVE (5) PERCENT ORGANIC MATERIALS (BY VOLUME).
11. LOCATIONS OF PROPOSED NATIVE COMPACTED EARTH ROADWAYS SHOULD BE SCARIFIED TO A DEPTH OF TWELVE (12) INCHES BELOW EXISTING OR FINISH GRADE, WHICHEVER IS LOWER, MOISTURE-CONDITIONED TO NEAR-OPTIMUM MOISTURE CONTENT, AND THEN SURFACE-COMPACTED TO THE A MINIMUM OF NINETY-FIVE PERCENT (95%) RELATIVE COMPACTION BASED UPON THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH THE MODIFIED PROCTOR COMPACTION TEST (ASTM D1557). COMPACTION SHALL BE VERIFIED BY TESTING. A SHRINKAGE FACTOR OF TEN TO FIFTEEN (10-15) PERCENT MAY BE USED FOR EARTHWORK QUANTITY CALCULATIONS; SHRINKAGE MAY VARY.
12. INTERCONNECTION YARDS OR SWITCHYARDS SHOULD CONSIST OF A MINIMUM OF FOUR INCHES (4") THICK, 3/4" LOOSE CRUSHED ROCK AGGREGATE BASE OVER PROPERLY PREPARED SUBGRADE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. THIS SHOULD BE INCREASED TO PROVIDE INSULATION IN ACCORDANCE WITH THE ELECTRICAL ENGINEER'S RECOMMENDATIONS.
13. WHERE THEY OCCUR, NATIVE COMPACTED OR GRAVEL ACCESS DRIVES SHOULD BE PROVIDED WITH AT LEAST 1/2% CROSS-SLOPE AND SUBSTATION OR INTERCONNECTION YARDS SHOULD SLOPE AWAY FROM PADS AT 1/2% MINIMUM TO DRAIN THE BASE COURSE AND IMPROVE STABILITY IN WET CONDITIONS.
14. EXISTING GROUND THAT IS NOT SATISFACTORY TO RECEIVE FILL SHALL BE OVEREXCAVATED TO COMPETENT GROUND AS EVALUATED BY THE PROJECT GEOTECHNICAL ENGINEER DURING GRADING.
15. EXCAVATIONS CREATED BY REMOVING VEGETATION ROOTS OR CONTAMINATED SOILS SHOULD BE BACKFILLED WITH CLEAN FILL SOIL AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS LISTED HEREIN. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
16. MATERIAL TO BE USED AS FILL SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER AND SHALL BE ESSENTIALLY FREE OF ORGANIC MATTER, PARTICLES LARGER THAN THREE (3) INCHES IN ANY DIMENSION, AND OTHER DELETERIOUS SUBSTANCES. APPROVED FILL MATERIAL SHALL BE PLACED IN AREAS PREPARED TO RECEIVE FILL IN NEAR-HORIZONTAL LAYERS NOT EXCEEDING EIGHT (8) INCHES IN LOOSE THICKNESS. AFTER EACH LAYER HAS BEEN MOISTURE-CONDITIONED, MIXED, AND EVENLY PLACED, THE SOIL SHALL BE UNIFORMLY COMPACTED TO NOT LESS THAN NINETY PERCENT (90%) [FOR AREAS RECEIVING ENGINEERED FILL] AND NOT LESS THAN NINETY-FIVE PERCENT (95%) [FOR DRIVE AREAS] RELATIVE COMPACTION BASED UPON THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH THE MODIFIED PROCTOR COMPACTION TEST (ASTM D1557).
17. A REPRESENTATIVE OF THE PROJECT CONSULTANT SHOULD BE PRESENT ON-SITE DURING GRADING OPERATIONS TO VERIFY PROPER PLACEMENT AND COMPACTION OF FILL, AND TO VERIFY COMPLIANCE WITH OTHER GEOTECHNICAL RECOMMENDATIONS.

18. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY AND SHOULD BE PERFORMED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER TO EVALUATE COMPLIANCE WITH GRADING SPECIFICATIONS. THE PROJECT GEOTECHNICAL ENGINEER SHOULD CHECK THE BOTTOMS OF EXCAVATIONS. IF SOFT, LOOSE, OR OTHERWISE UNSUITABLE SOILS AREA IS ENCOUNTERED, THE DEPTH OF REMOVAL MAY NEED TO BE EXTENDED TO REACH SUITABLE SOILS.
19. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE STABILIZED BY MEANS AND METHODS APPROVED BY THE LOCAL AGENCY. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
20. ALL CUT OR FILL SLOPES SHALL BE 3 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN. WHERE FILL IS PLACED ON A SLOPING GROUND THAT IS STEEPER THAN TWENTY PERCENT (20%), THE GROUND TO RECEIVE FILL SHALL BE PREPARED BY PROPER KEYING AND BENCHING AS DESCRIBED IN THE GEOTECHNICAL REPORT.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
22. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS, AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS OF THE GOVERNING CODE.
23. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE REQUIRED PERMITS COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY GOVERNING JURISDICTION.

GRADING GENERAL NOTES (PER COUNTY OF SAN DIEGO)

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
2. FINAL APPROVAL OF THESE GRADING PLANS IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
4. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
5. ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS.
6. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING:
AGENCIES: PHONE NUMBER:
SAN DIEGO GAS AND ELECTRIC (858) 547-3335
AT&T TELEPHONE (510) 645-2929
CATV (DIRECTV) (844) 978-8722
SEWER (SAN DIEGO COUNTY DEPARTMENT OF PUBLIC WORKS) (858) 514-4990
WATER (JACUMBA COMMUNITY SERVICE DISTRICT) (619) 200-2073
7. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
8. APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
9. THE DIRECTOR OF PUBLIC WORK'S APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE AREA COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER OVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.403 & 87. 410). ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND DEVELOPMENT SERVICES.
10. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00AM AND 6:00PM EACH DAY, MONDAY THROUGH SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
11. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
12. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION, SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
13. SLOPE RATIOS:
CUT--1 1/2: 1 FOR MINOR SLOPES (SLOPES < 15'), 2:1 FOR MAJOR SLOPES.
FILL--2:1
EXCAVATION: 264,000 C. Y. FILL: 264,000 C. Y. WASTE/IMPORT Q C. Y.
(NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS BEFORE PERMIT TO BE ISSUED).
14. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS TO DO SO.
15. PERMANENT POST-CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL FROM THE DEPARTMENT OF PUBLIC OF WORKS.
16. THE APPLICANT IS RESPONSIBLE FOR THE ROAD MAINTENANCE (SWEEPING AS NECESSARY) AND REPAIRS OF ANY DAMAGE CAUSED BY THEM TO THE ON-SITE AND OFF-SITE COUNTY MAINTAINED OR PRIVATE ROADS THAT SERVE THE PROPERTY EITHER DURING CONSTRUCTION OR SUBSEQUENT OPERATIONS. THE APPLICANT WILL REPAIR THOSE PORTIONS OF THE ROUTE THAT WOULD BE DAMAGED BY THE HEAVY LOADS THAT LOADED TRUCKS PLACE ON THE ROUTE IDENTIFIED.
17. FINAL APPROVAL OF THIS GRADING PLAN IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGE TO THESE PLANS.

18. THE ENGINEER-OF-WORK SHALL COMPLY WITH ALL PROJECT APPLICABLE LAWS THAT INCLUDE, BUT ARE NOT LIMITED TO, HEALTH, SAFETY, AND ENVIRONMENTAL LAWS, ORDINANCES, AND REGULATIONS RELATING TO THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, AND U.S. FEDERAL GOVERNMENT. THE PROJECT IS SUBJECT TO ENFORCEMENT UNDER PERMITS FROM THE SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) AND THE COUNTY OF SAN DIEGO WATERSHED PROTECTION, STORMWATER MANAGEMENT, AND DISCHARGE CONTROL ORDINANCE NO. 10410, COUNTY OF SAN DIEGO HYDRAULIC DESIGN MANUAL, AND ALL OTHER APPLICABLE ORDINANCES AND STANDARDS FOR THE LIFE OF THIS PERMIT. THE PROJECT SITE SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS REFERENCED ABOVE AND ALL OTHER APPLICABLE ORDINANCES AND STANDARDS. THIS INCLUDES COMPLIANCE WITH THE APPROVED STORM WATER QUALITY MANAGEMENT PLAN (SWQMP). ALL REQUIREMENTS FOR LOW IMPACT DEVELOPMENT (LID), HYDROMODIFICATION, DETENTION FACILITIES, MATERIALS AND WASTES CONTROL, EROSION CONTROL, AND SEDIMENT CONTROL ON THE PROJECT SITE.
19. THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR THE PERMIT/APPROVAL TO VIOLATE ANY FEDERAL, STATE, OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR POLICIES INCLUDING, BUT NOT LIMITED TO THE FEDERAL ENDANGERED SPECIES ACT AND CLEAN WATER ACT. GRADING AND/OR FURTHER DEVELOPMENT ARE PROHIBITED WITHIN THE AREAS DESIGNATED "LIMITS OF JURISDICTIONAL HABITAT" UNTIL FEDERAL PERMITS AND STATE PERMITS (IF ANY) HAVE BEEN ACQUIRED.
20. ALL GRADING DETAILS SHALL BE IN CONFORMANCE WITH THE FOLLOWING SAN DIEGO COUNTY DESIGN STANDARDS OR REGIONAL STANDARD DRAWINGS:

DS-08 LOT GRADING
DS-10 GRADING OF SLOPES
DS-11 REQUIRED SETBACKS
D-40 RIP RAP ENERGY DISSIPATER
D-75 DRAINAGE DITCH

FIRE APPARATUS NOTES

1. ONSITE DRIVEWAYS SHALL BE CONSTRUCTED TO MEET SAN DIEGO COUNTY FIRE DEPARTMENT REQUIREMENTS FOR THIS PROJECT, INCLUDING BUT NOT LIMITED TO THE ROAD WIDTHS OF 24-FEET AROUND THE PERIMETER AND AT DRIVEWAYS AND 20-FEET ON INTERIOR ROADS, USING A MINIMUM RADIUS OF 28-FEET AND SHALL BE GRADED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF A FIRE APPARATUS NOT LESS THAN 50,000 LBS WITH ALL-WEATHER DRIVING CAPABILITIES.
2. THE FIRE APPARATUS ON-SITE AND OFF-SITE ACCESS DRIVES SHALL BE INSTALLED AND MAINTAINED IN A DRIVEABLE CONDITION FOR THE DURATION OF THE SOLAR PROJECT.
3. THE FIRE APPARATUS ON-SITE AND OFF-SITE ACCESS DRIVES SHALL BE INSTALLED PRIOR TO OCCUPANCY OR OPERATION OF THE FACILITY.

PROJECT CLOSEOUT NOTES

1. CONTRACTOR SHALL PROVIDE THE NECESSARY ITEMS INCLUDING ANY TESTING, REPORTS, OR CERTIFICATION DOCUMENTS REQUIRED BY THE GOVERNING JURISDICTIONS TO PROPERLY CLOSEOUT THE PROJECT BEFORE IT CAN BE DEEMED COMPLETE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING INFORMATION OF CHANGES TO APPROVED PLANS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RECORD DRAWINGS TO THE ENGINEER AND OWNER AT THE COMPLETION OF CONSTRUCTION. THIS RECORD INFORMATION WILL BE USED TO PRODUCE RECORD / AS-BUILT DRAWINGS, AS REQUIRED.



002 - NOTES																	
COUNTY APPROVED CHANGES																	
DESCRIPTION:	APPROVED BY:	DATE:															
<table><tr><td>SHEET 2</td><td>COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS</td><td>13 SHEETS</td></tr><tr><td colspan="3">GRADING PLAN FOR: JVR ENERGY PARK</td></tr><tr><td colspan="3">CALIFORNIA COORDINATE INDEX SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00</td></tr><tr><td>APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER</td><td colspan="2">ENGINEER OF WORK: DAVID M. BOSSU (78103) R.C.E.</td></tr><tr><td colspan="3">GRADING PERMIT NO: PDS2019-LDGRMJ-30240</td></tr></table>			SHEET 2	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS	GRADING PLAN FOR: JVR ENERGY PARK			CALIFORNIA COORDINATE INDEX SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00			APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK: DAVID M. BOSSU (78103) R.C.E.		GRADING PERMIT NO: PDS2019-LDGRMJ-30240		
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PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.																	

STORM WATER MANAGEMENT NOTES (PER COUNTY OF SAN DIEGO)

1. DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125 % SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
2. NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE SAN DIEGO COUNTY D.P.W. DIRECTOR'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. ANY DISTURBED AREA THAT IS NOT ACTIVELY GRADED FOR 15 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONG-TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
3. THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORM WATER REGULATIONS AT ALL TIMES. THE B.M.P.'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE MAINTENANCE OF THE B.M.P.'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE B.M.P.'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED B.M.P.'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
4. ON PROJECTS OF GREATER THAN ONE ACRES ADD THE FOLLOWING NOTE: A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND THAT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE NOI NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS [WDID#] [ALTERNATIVE: NOT YET ASSIGNED, BUT WILL BE PROVIDED BEFORE A PERMIT IS ISSUED]. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.

EMERGENCY EROSION CONTROL MEASURE NOTES

(PER COUNTY OF SAN DIEGO)

1. ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
2. TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF THE SLOPES.
3. MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
4. AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. BETWEEN OCTOBER 1, AND APRIL 15, APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
5. CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
6. GRAVEL BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
7. THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE GRAVEL BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

SILTATION AND SEDIMENT CONTROL MEASURES NOTES

(PER COUNTY OF SAN DIEGO)

1. THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
3. SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH GRAVEL BAGS FROM TOP OF PIPE TO TOP OF DIKE.
4. ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF GRAVEL BAGS WITH A TOP ELEVATION LEVEL WITH, AND TWO GRAVEL BAGS BELOW, THE GRADED SURFACE OF THE STREET. GRAVEL BAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN GRAVEL BAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT EXCEED THE FOLLOWING:

GRADE OF THE STREET	INTERVAL
LESS THAN 2%	AS REQUIRED
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET
5. AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
6. ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
7. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET
8. PROVIDE VELOCITY CHECK DAMS IN ALL STREET AREAS ACCORDING TO INTERVALS INDICATED BELOW. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE COUNTY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS.

GRADE OF STREET	INTERVAL	NUMBER OF BAGS HIGH
LESS THAN 2%	AS REQUIRED	
	200 FEET MAX	1
2% TO 4%	100 FEET	1
4% TO 6%	50 FEET	1
6% TO 10%	50 FEET	2
OVER 10%	25 FEET	2
9. PROVIDE A GRAVEL BAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
10. GRAVEL BAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
11. ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE, MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
12. PROVIDE ROCK RIPRAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENUDED SLOPES, OR IMPERVIOUS SURFACES.
13. ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES; I.E., COUNTY ENGINEER, DEPARTMENT OF ENVIRONMENTAL HEALTH, FLOOD CONTROL AND OFFICE OF ENVIRONMENTAL MANAGEMENT ETC.

THE USE OF BFM'S IS SUBJECT TO THE FOLLOWING

LIMITATIONS AND RESTRICTIONS:

(PER COUNTY OF SAN DIEGO)

1. APPLICATION RATES SHALL BE 3500 POUNDS PER ACRE MINIMUM FOR 2:1 OR SHALLOWER SLOPES AND 4000 POUNDS PER ACRE FOR SLOPES STEEPER THAN 2:1.
2. BFM SHALL BE APPLIED AT LEAST 24 HOURS BEFORE OR AFTER RAINFALL.
3. THE SITE MUST BE PROTECTED WITH BROW DITCHES AND / OR DIVERSION BERMS AT THE TOP OF SLOPES TO DIVERT FLOW FROM THE FACE OF THE SLOPE.
4. BFM SHALL BE APPLIED TO PROVIDE 100% COVERAGE (I.E. APPLICATION FROM MULTIPLE ANGLES).
5. FOR PERMANENT EROSION CONTROL PURPOSES, BFM MUST BE INSTALLED IN CONJUNCTION WITH SEEDED EROSION CONTROL VEGETATION.
6. A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THAT THE BFM HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED APPLICATION RATES AND COVERAGE REQUIREMENTS SHALL BE SUBMITTED TO THE COUNTY INSPECTOR FOR APPROVAL.

BMP STENCIL PLACEMENT NOTES:

(PER COUNTY OF SAN DIEGO)

1. ALL STORM DRAIN INLETS AND CATCH BASINS WITHIN THE PROJECT AREA SHALL HAVE A STENCIL OR TILE PLACED WITH PROHIBITIVE LANGUAGE (SUCH AS: NO DUMPING- I LIVE IN <NAME RECEIVED WATER>>) AND/OR GRAPHICAL ICONS TO DISCOURAGE ILLEGAL DUMPING.
2. SIGNS AND PROIBITIVE LANGUAGE AND/OR GRAPHICAL ICONS, WHICH PROHIBIT ILLEGAL DUMPING, MUST BE POSTED AT PUBLIC ACCESS POINTS ALONG CHANNELS AND CREEKS WITHIN THE PROJECT AREA.
3. LEGIBILITY OF STENCILS, TILES AND SIGNS MUST BE MAINTAINED AND TILES MUST BE PLACED FLUSH WITH THE TOP OF CONCRETE TO REDUCE TRIPPING BY PEDESTRIANS.



003 - NOTES

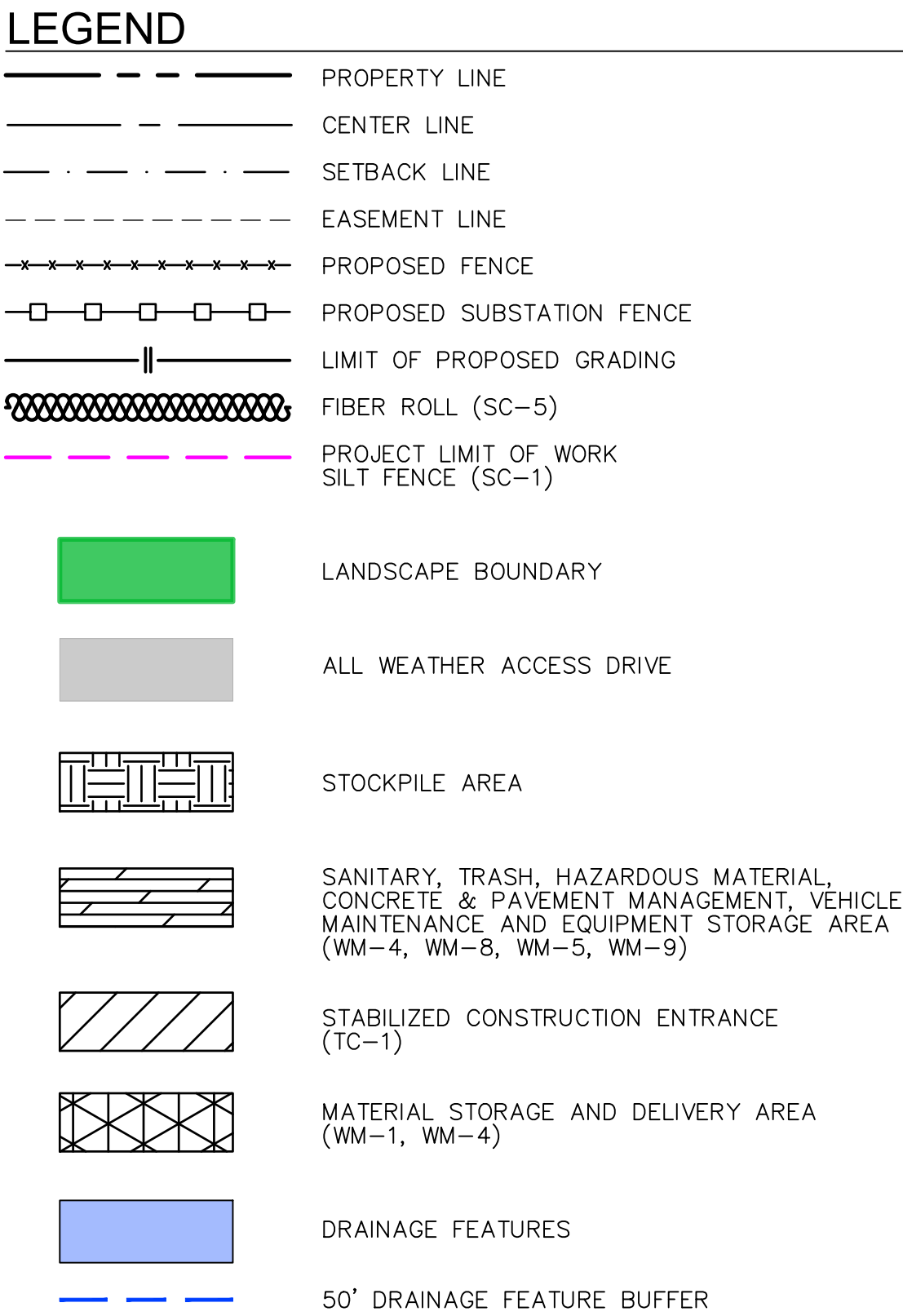
COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.

PRIVATE CONTRACT

SHEET 3	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
GRADING PLAN FOR: JVR ENERGY PARK CALIFORNIA COORDINATE INDEX SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		ENGINEER OF WORK: DAVID M. BOSSU (78103) R.C.E.
		GRADING PERMIT NO: PDS2019-LDGRMJ-30240

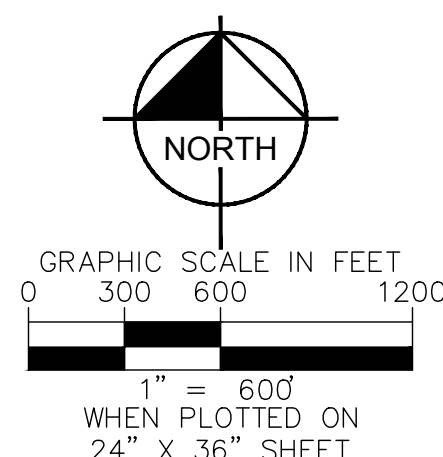


1. GROSS (PROPERTY) AREA: 1,355.84 ACRES
2. MUP BOUNDARY ("DEVELOPED") AREA: 643± ACRES
3. FENCED AREA (INCLUDES PROJECT COLLECTOR SUBSTATION AND SWITCHYARD): 574.84± ACRES
4. GENERAL PLAN: SPECIFIC PLAN AREA
5. REGIONAL CATEGORY: MOUNTAIN EMPIRE SUBREGIONAL PLAN
6. TOPOGRAPHIC SOURCE: KIMLEY-HORN FIELD SURVEY COMPLETED 8/8/2018
7. THIS PLAN IS PROVIDED TO ALLOW FOR FULL AND ADEQUATE DISCRETIONARY REVIEW OF A PROPOSED DEVELOPMENT PROJECT. THE PROPERTY OWNER ACKNOWLEDGES THAT ACCEPTANCE OR APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL TO PERFORM ANY GRADING SHOWN HEREON, AND AGREES TO OBTAIN VALID GRADING PERMISSIONS BEFORE COMMENCING SUCH ACTIVITY.
8. ALL DISTURBED AREAS SHALL BE COVERED WITH ORGANIC MULCH OR APPROVED EQUAL TO REDUCE DUST, SEEDED, AND WATERED REGULARLY DURING CONSTRUCTION.
9. PILE DRIVING OPERATIONS: IN ORDER TO LIMIT TEMPORARY CONSTRUCTION NOISE, ALL PILE DRIVING OPERATIONS SHALL BE LOCATED A MINIMUM SETBACK OF 215 FEET FROM ANY OCCUPIED RESIDENTIAL PROPERTY LINE. IF PILE DRIVING OPERATIONS ARE TO OCCUR WITHIN 215 FEET, THEN THESE OPERATIONS SHALL BE LIMITED TO OPERATE 25% OF THE HOURLY OR DAILY DURATION.
10. EXISTING STORM DRAIN PIPES TO BE RESTORED OR REPLACED IF NECESSARY
11. ALL AREAS BEING CLEARED AND GRUBBED SHALL BE SEEDED WITH HYDRAULIC STABILIZATION SEEDING DURING THE SUMMER AND WINTER PER 2017 CALTRANS STANDARD (OR LATEST) CONSTRUCTION SITE BMP MANUAL.
12. IF AREAS BEING CLEARED AND NOT GRUBBED DO NOT SHOW SIGNS OF VEGETATIVE GROWTH IN A TIMELY MANNER, CONTRACTOR SHOULD SEED AS NEEDED TO ACHIEVE STABILIZATION.

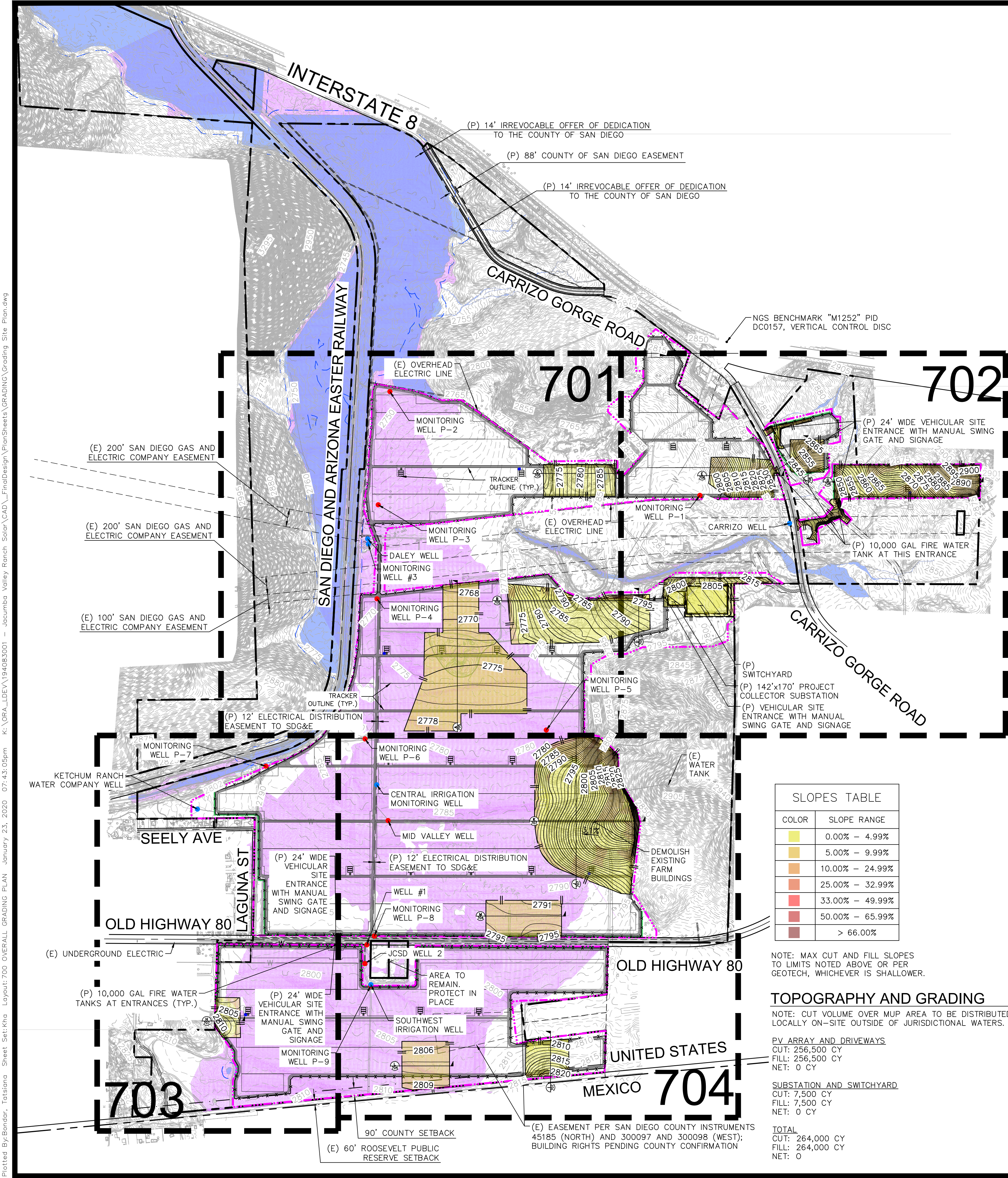
PER SAN DIEGO COUNTY STORMWATER BEST MANAGEMENT PRACTICES REFERENCE GUIDE	
2.2.1	CONSERVATION OF NATURAL DRAINAGES AND SIGNIFICANT VEGETATION
2.2.2	MINIMIZE DISTURBANCES TO NATURAL DRAINAGES
2.2.3	MINIMIZE & DISCONNECT IMPERVIOUS SURFACES
2.2.4	MINIMIZE SOIL COMPACTION
2.2.5	DRAIN RUNOFF FROM IMPERVIOUS SURFACES TO PERVIOUS AREAS
4.2.3	PERMEABLE PAVEMENT DESIGN AT SUBSTATION (GRAVEL YARD)
3.1.3	LID ONSITE ACCESS ROADS (OMITTED FOR CLARITY)
4.2.1	PREVENTION OF ILLICIT DISCHARGES INTO THE MS4
4.2.5	PROTECT TRASH STORAGE AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL
4.3.1	MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES
4.3.2	CONSERVE NATURAL AREAS, SOILS, AND VEGETATION
4.3.3	MINIMIZE IMPERVIOUS AREA
4.3.4	MINIMIZE SOIL COMPACTION
4.3.5	IMPERVIOUS AREA DISPERSION
4.2.7	LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES

SD-34 PROPER DESIGN OF OUTDOOR MATERIAL STORAGE AREAS

PILES	708 SF
PV TRACKERS	8 SF
INVERTER SKIDS	
BATTERY STORAGE CONTAINERS	75,124 SF
SUBSTATION (WITHIN FENCED AREA)	24,140 SF
SWITCHYARD (WITHIN FENCED AREA)	133,004 SF
TOTAL	232,984 SF

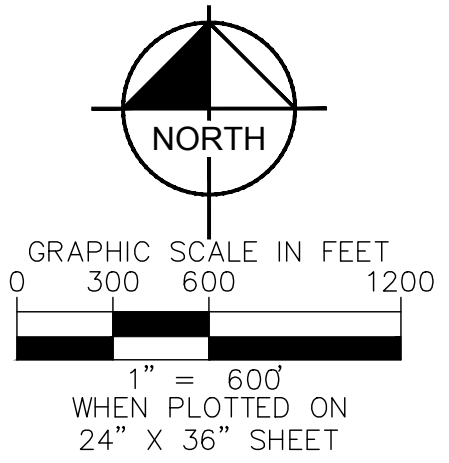


400 - BMP PLAN			PRIVATE CONTRACT		
COUNTY APPROVED CHANGES					
DESCRIPTION:	APPROVED BY:	DATE:	SHEET <u>4</u>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
			GRADING PLAN FOR: <p style="text-align: center; font-size: 1.2em;">JVR ENERGY PARK</p> <p style="text-align: right;">CALIFORNIA COORDINATE INDEX <u>SYSTEM 83, ZONE 6, NAD83</u> EPOCH 2010.00</p>		
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.			APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		ENGINEER OF WORK: <u>DAVID M. BOSSU (78103)</u> R.C.E.
			GRADING PERMIT NO. PDS2019-LDGRMJ-30240		



NOTES

- SURVEY INFORMATION PREPARED BY KIMLEY-HORN AND ASSOCIATES DATED AUGUST 2018; PENDING ALTA COMPLETION AND UTILITY PURVEYOR FACILITY MAP AND RECORD DRAWING FEEDBACK.
- SETBACKS
 - 60' "ROOSEVELT" PUBLIC RESERVE SETBACK PER "COUNTY OF SAN DIEGO, CALIFORNIA BOARD OF SUPERVISORS POLICY NUMBER I-111"
 - ~1.3± ACRES OF ENCROACHMENT INTO 90'-WIDE SD COUNTY SETBACK ≈0.10% OF GROSS (PROPERTY) AREA; ≈0.25% OF FENCED AREA.
 - 90' COUNTY SETBACK PER "COUNTY OF SAN DIEGO, CALIFORNIA BOARD OF SUPERVISORS POLICY NUMBER I-111"
 - 3' COUNTY SETBACKS PER SAN DIEGO COUNTY "SETBACKS FOR SOLAR PHOTOVOLTAIC PANELS" DATED 01/30/18, REQUIRES A MINIMUM 3 FT SETBACK FROM PROPERTY LINE TO GROUND-MOUNTED PV SOLAR ARRAYS.
- BIOLOGICAL RESOURCE DELINEATION PROVIDED BY DUDEK ENVIRONMENTAL ON AUGUST 30TH 2018.
- CULTURAL RESOURCE DELINEATION PROVIDED BY DUDEK ENVIRONMENTAL ON SEPTEMBER 3RD 2018. REFER TO "CULTURAL RESOURCES" (FIGURE 1) FOR MORE INFORMATION.
- 15'-WIDE LANDSCAPE BUFFER PER BAYWA R.E. SOLAR PROJECTS, LLC DURING PROJECT KICKOFF MEETING ON AUGUST 17, 2018.
- RUNWAY SAFETY ZONES DELINEATED PER AVIATION COMPATIBILITY PLAN. SEE SHEET 300.
- CONTENT PER ELECTRICAL LAYOUT AS PROVIDED BY BAYWA R.E. SOLAR PROJECTS, LLC DATED OCTOBER 09, 2018 AND MODIFIED THROUGH SUBSEQUENT DISCUSSIONS.
- GROSS AREA: 1,355.84 ACRES
- MUP BOUNDARY ("DEVELOPED") AREA: 643± ACRES
- FENCED AREA (INCLUDES PROJECT COLLECTOR SUBSTATION AND SWITCHYARD): 574.84± ACRES
- GENERAL PLAN: PUBLIC AGENCY LANDS, VILLAGE RESIDENTIAL (VR-2), RURAL COMMERCIAL
- REGIONAL CATEGORY: VILLAGE AND RURAL
- TOPOGRAPHIC SOURCE: KIMLEY-HORN FIELD SURVEY COMPLETED 8/8/2018
- ASSOCIATED REQUESTS: NONE
- WATER DISTRICT: JACUMBA COMMUNITY SERVICE DISTRICT
- FIRE DISTRICT: SAN DIEGO COUNTY FIRE AUTHORITY
- THE APPROVAL OF THIS MAJOR USE PERMIT (MUP) AUTHORIZES THE FOLLOWING: CONSTRUCTIONS, OPERATION, AND MAINTENANCE OF A PHOTOVOLTAIC SOLAR FARM PURSUANT TO SECTION 6952 OF THE SAN DIEGO COUNTY ZONING ORDINANCE.
- THIS PLAN IS PROVIDED TO ALLOW FOR FULL AND ADEQUATE DISCRETIONARY REVIEW OF A PROPOSED DEVELOPMENT PROJECT. THE PROPERTY OWNER ACKNOWLEDGES THAT ACCEPTANCE OR APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL TO PERFORM ANY GRADING SHOWN HEREON. AND AGREES TO OBTAIN VALID GRADING PERMISSIONS BEFORE CONNECTING SUCH ACTIVITY.
- ALL SOLAR EQUIPMENT STRUCTURES TO BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL (CONCRETE, BLOCK, METAL) OR SIMILAR AND PAINTED EARTH TONE COLORS.
- LIGHTING FOR MAINTENANCE AND SECURITY PURPOSES ONLY. SHIELDED LIGHTING LOCATED AT ENTRANCE GATES AND INVERTER/TRANSFORMER PADS AND SHALL CONFORM TO COUNTY OF SAND DIEGO OUTDOOR LIGHTING REQUIREMENTS.
- PHASING — PROJECT MAY BE IMPLEMENTED IN SEVERAL PHASES WITHOUT REGARD TO SEQUENCE.
- ALL DISTURBED AREAS SHALL BE COVERED WITH ORGANIC MULCH OR APPROVED EQUAL TO REDUCE DUST, SEEDED, AND WATERED REGULARLY DURING CONSTRUCTION.
- SEE THIS PRELIMINARY GRADING PLANS FOR PROPOSED GRADING.
- SITE ACCESS GATE(S) TO BE EQUIPPED WITH FIRE DEPARTMENT APPROVED STROBE LIGHT ACTIVATION AND KNOX KEY-OPERATED SWITCH.
- SOLAR RELATED FACILITIES (PANELS, RACKING, ELECTRICAL CONNECTIONS, INVERTER/TRANSFORMER PADS, SWITCHGEAR, MET STATION, FENCING AND INTERNAL ACCESS, ETC.) SHOWN ON THE PLOT PLAN MAY BE RELOCATED RECONFIGURED, AND/OR RESIZED WITHIN THE SOLAR FACILITY DEVELOPMENT AREA WITH THE ADMINISTRATIVE APPROVAL OF THE DIRECTOR OF PDS WHEN FOUND IN CONFORMANCE WITH THE INTENT AND CONDITIONS OF PERMITS. APPROVAL, INVERTER/TRANSFORMER LOCATIONS CAN BE RELOCATED/RECONFIGURED WITHOUT REQUIREMENT OF MINOR DEVIATION.
- THE INVERTER/TRANSFORMER MUST COMPLY WITH THE NOISE ORDINANCE AND MUST BE ELEVATED 1' ABOVE FLOOD ELEVATION.
- THE 24' FIRE ACCESS DRIVE WIDTHS MAY BE REDUCED ADMINISTRATELY WITH THE APPROVAL OF THE COUNTY AND FIRE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.
- A STATE IDENTIFICATION SIGN SHALL BE LOCATED AT ALL GATE ENTRANCES. SIGN SHALL BE 12X18. SIGN SHALL LIST NAME OF SITE AND CONTACT INFORMATION AS PROVIDED BY SDGE.
- PRIVATE PROPERTY/NO TRESPASSING AND HIGH VOLTAGE SIGNS SHALL BE LOCATED AT ALL GATE ENTRANCES AND EVERY 100' MINIMUM ON FENCE. THE SIGN SHALL BE 10X14" MISCELLANEOUS INTERIOR DIRECTIONAL AND SAFETY SIGNAGE AND PERMITTED.
- OUTDOOR LIGHTING CIRCUITS SHALL INCORPORATE DUSK-TO-DAWN PHOTOCELL CONTROLLERS, OCCUPANCY SENSORS, AND/OR SWITCHES AS APPROPRIATE.
- METEOROLOGICAL (MET) STATIONS SHALL BE LOCATED ADJACENT TO THE INVERTER/EQUIPMENT PADS AS SHOWN ON THE PLANS.
- THIS PLAN IS PROVIDED TO ALLOW FOR FULL AND ADEQUATE DISCRETIONARY REVIEW OF A PROPOSED DEVELOPMENT PROJECT. THE PROPERTY OWNER ACKNOWLEDGES THAT ACCEPTANCE OR APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL TO PERFORM ANY GRADING SHOWN HEREON. AND AGREES TO OBTAIN VALID GRADING PERMISSIONS BEFORE COMMENCING SUCH ACTIVITY.



SLOPES TABLE	
COLOR	SLOPE RANGE
	0.00% - 4.99%
	5.00% - 9.99%
	10.00% - 24.99%
	25.00% - 32.99%
	33.00% - 49.99%
	50.00% - 65.99%
	> 66.00%

NOTE: MAX CUT AND FILL SLOPES TO LIMITS NOTED ABOVE OR PER GEOTECH, WHICHEVER IS SHALLOWER.

TOPOGRAPHY AND GRADING

NOTE: CUT VOLUME OVER MUP AREA TO BE DISTRIBUTED LOCALLY ON-SITE OUTSIDE OF JURISDICTIONAL WATERS.

PV ARRAY AND DRIVEWAYS
CUT: 256,500 CY
FILL: 256,500 CY
NET: 0 CY








SUBSTATION AND SWITCHYARD
CUT: 7,500 CY
FILL: 7,500 CY
NET: 0 CY

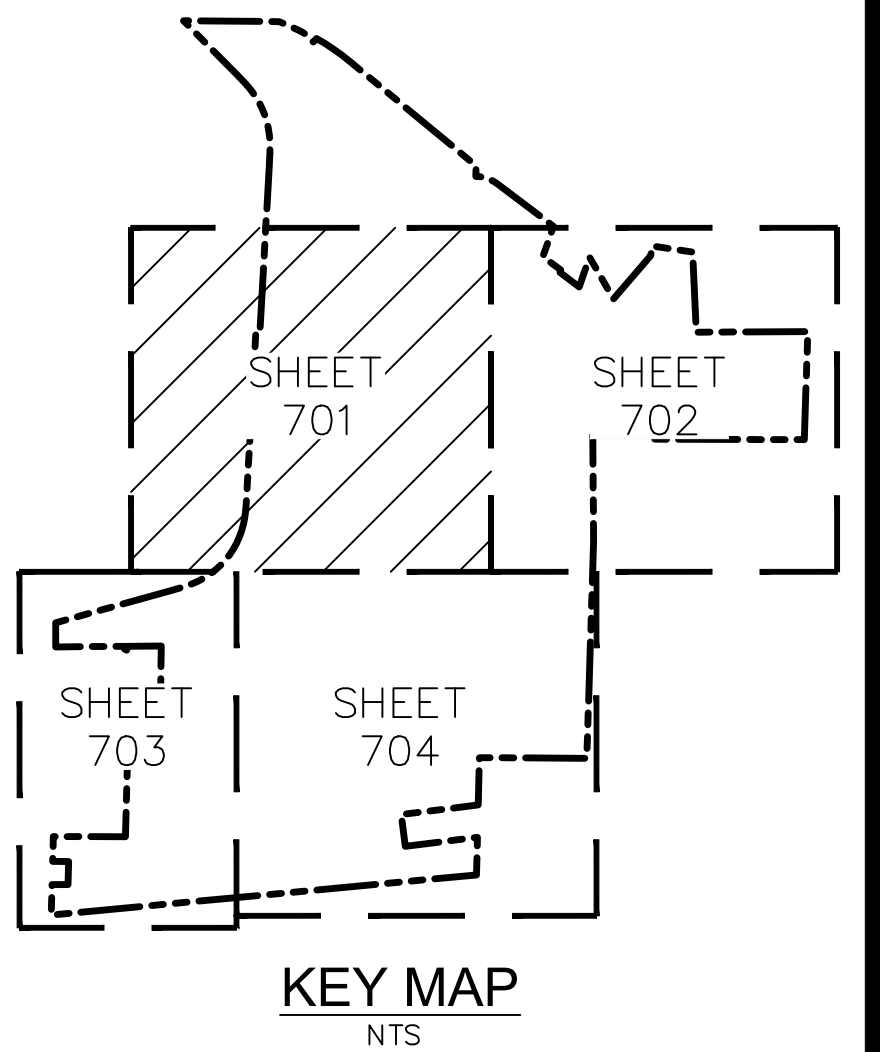
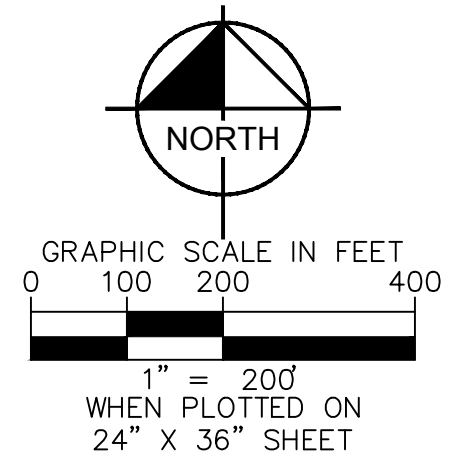
TOTAL
CUT: 264,000 CY
FILL: 264,000 CY
NET: 0

700 - OVERALL GRADING PLAN

COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 5	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
			GRADING PLAN FOR: JVR ENERGY PARK		
			CALIFORNIA COORDINATE INDEX SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00		
			APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		
			ENGINEER OF WORK: DAVID M. BOSSU (78103) R.C.E.		
			GRADING PERMIT NO: PDS2019-LDGRMJ-30240		
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.					



SLOPES TABLE	
COLOR	SLOPE RANGE
	0.00% – 4.99%
	5.00% – 9.99%
	10.00% – 24.99%
	25.00% – 32.99%
	33.00% – 49.99%
	50.00% – 65.99%
	> 66.00%



COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.		

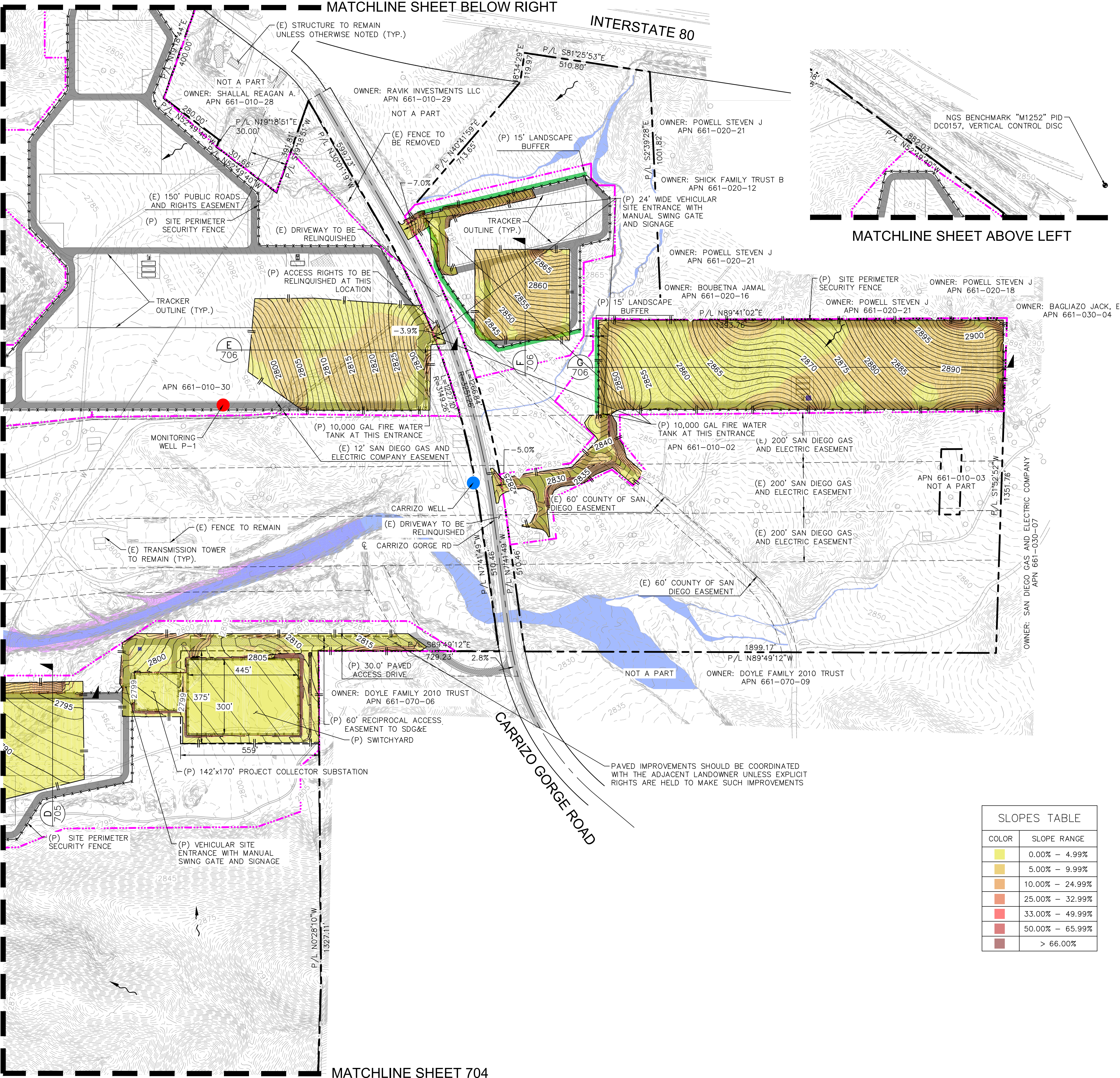
PRIVATE CONTRACT

SHEET 6	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
GRADING PLAN FOR:		
JVR ENERGY PARK		
CALIFORNIA COORDINATE INDEX <u>SYSTEM 83, ZONE 6, NAD83</u> <u>EPOCH 2010.00</u>		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK: <u>DAVID M. BOSSU (78103)</u> R.C.E.	
GRADING PERMIT NO: <u>PDS2019-LDGRMJ-30240</u>		

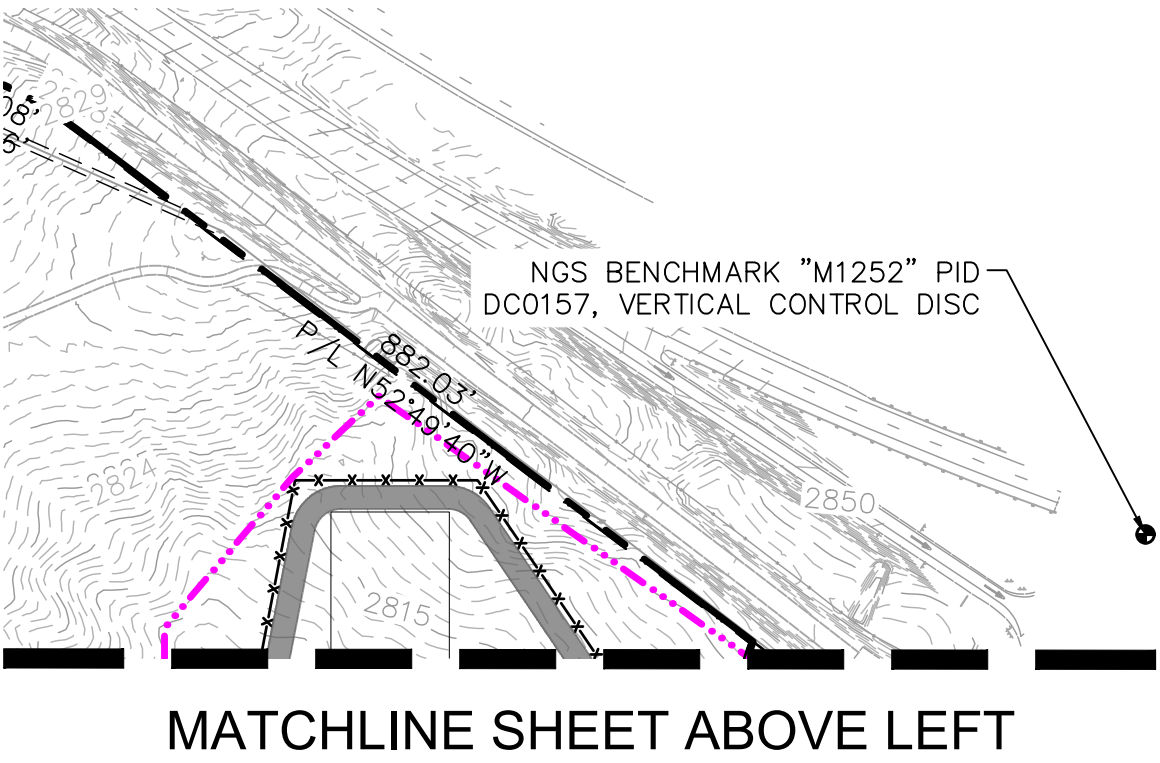
CIVIL ENGINEER: DAVID M. BOSSU
PHONE NO. (714) 705-1347 // EMAIL: DAVID.BOSSU@KIMLEY-HORN.COM

Plotted By: B. Bondar, T. Tolson, Sheet Set: Kina Layout: 702 ENLARGED GRADING PLAN January 23, 2020 07:45:22pm K:\VRA_IDEV\194083001 - Jacumba Valley Ranch Solar (CAD)\FinalDesign\PlanSheets\Grading\Site Plan.dwg

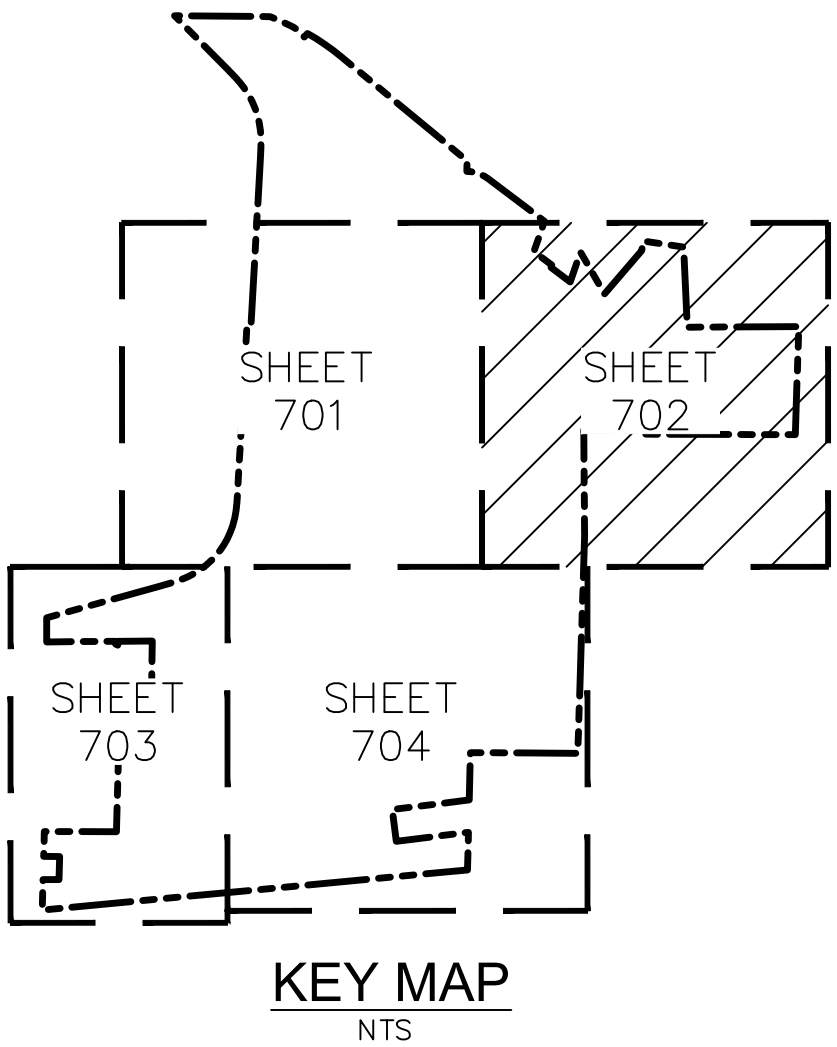
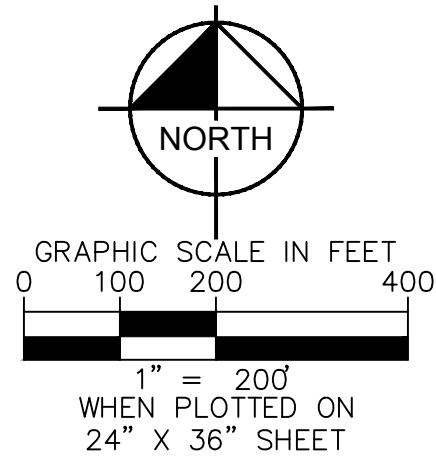
MATCHLINE SHEET 701



MATCHLINE SHEET 704



SLOPES TABLE	
COLOR	SLOPE RANGE
	0.00% - 4.99%
	5.00% - 9.99%
	10.00% - 24.99%
	25.00% - 32.99%
	33.00% - 49.99%
	50.00% - 65.99%
	> 66.00%



702 - ENLARGED GRADING PLAN

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

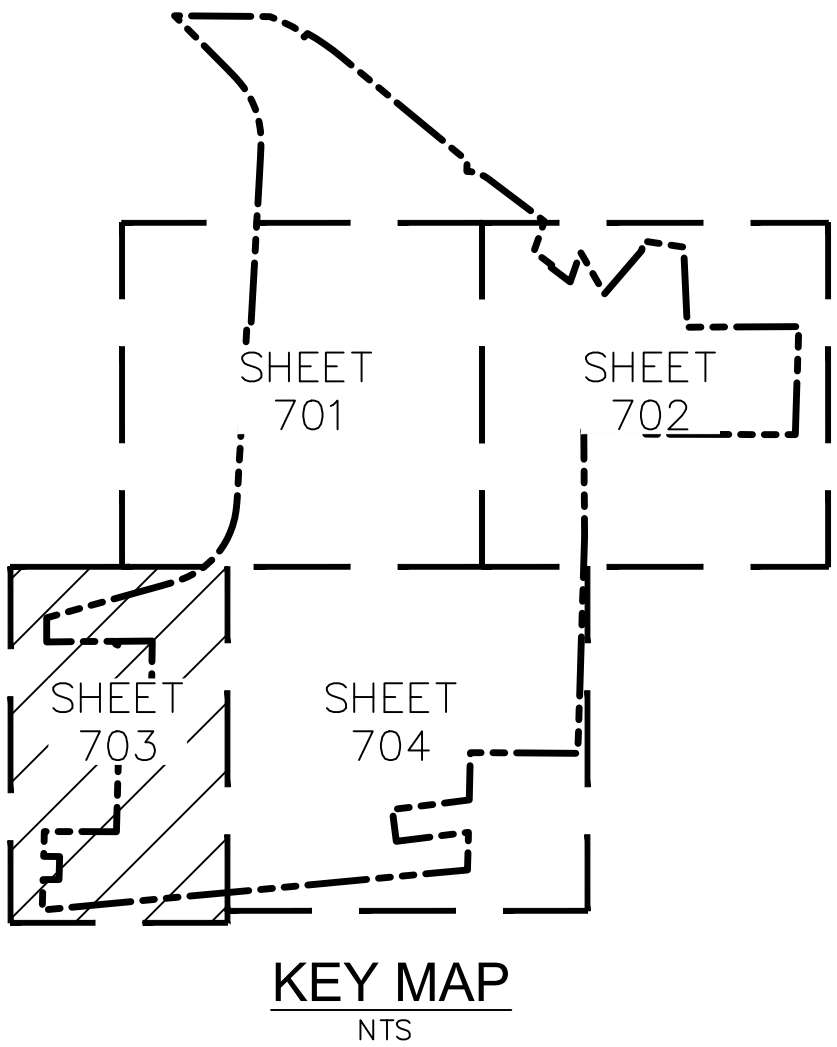
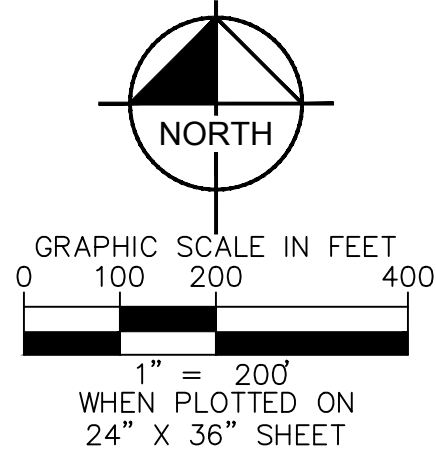
PRIVATE CONTRACT

SHEET 7	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
GRADING PLAN FOR:		
JVR ENERGY PARK		
CALIFORNIA COORDINATE INDEX SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		ENGINEER OF WORK:
		DAVID M. BOSSU (78103) R.C.E.
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.		GRADING PERMIT NO: PDS2019-LDGRMJ-30240

MATCHLINE SHEET 701

SLOPES TABLE	
COLOR	SLOPE RANGE
	0.00% - 4.99%
	5.00% - 9.99%
	10.00% - 24.99%
	25.00% - 32.99%
	33.00% - 49.99%
	50.00% - 65.99%
	> 66.00%

MATCHLINE SHEET 704



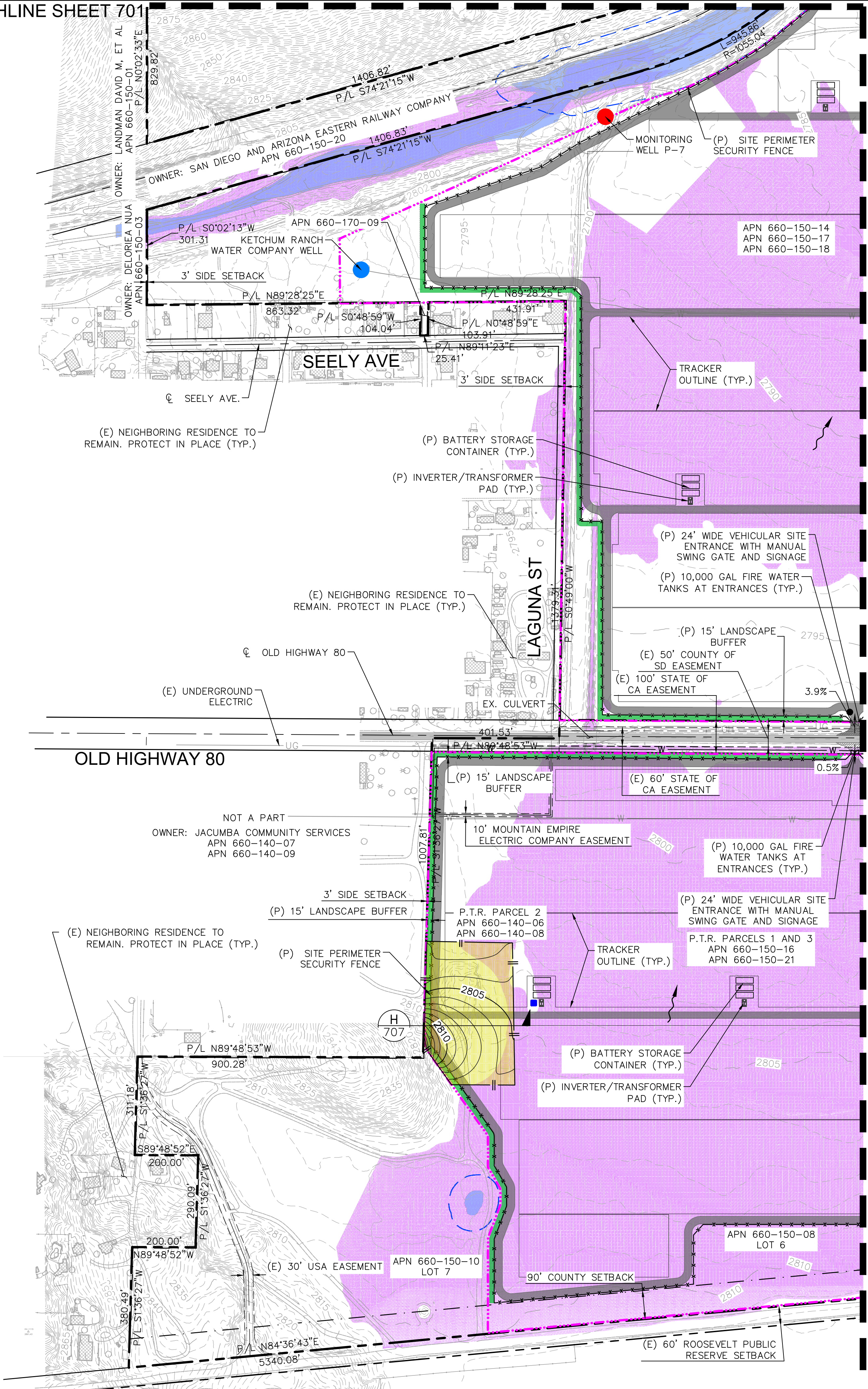
703 - ENLARGED GRADING PLAN

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.		

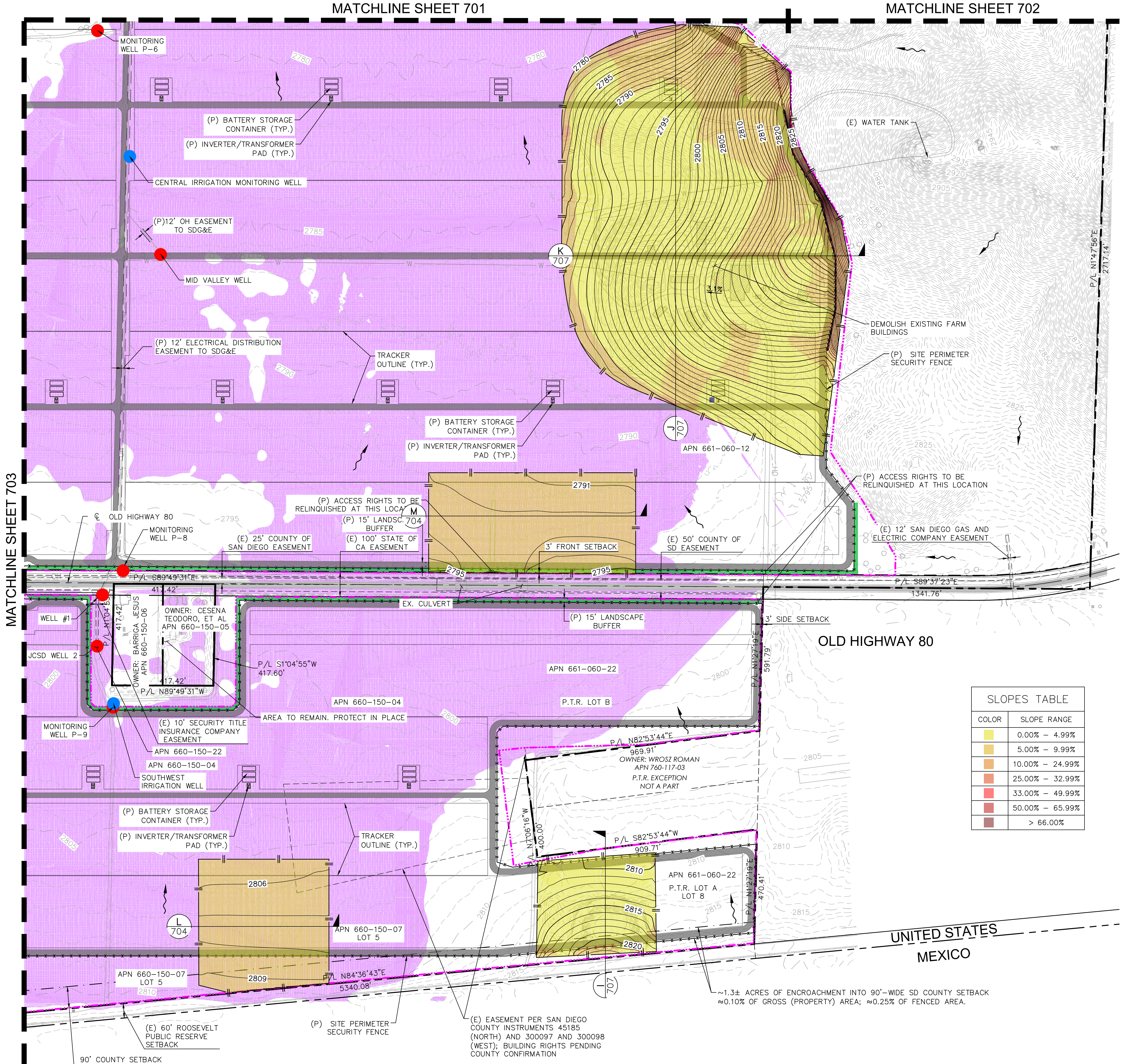
PRIVATE CONTRACT

SHEET 8	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
GRADING PLAN FOR:		
JVR ENERGY PARK		
CALIFORNIA COORDINATE INDEX	SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00	
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK: DAVID M. BOSSU (78103) R.C.E.	
GRADING PERMIT NO: PDS2019-LDGRMJ-30240		

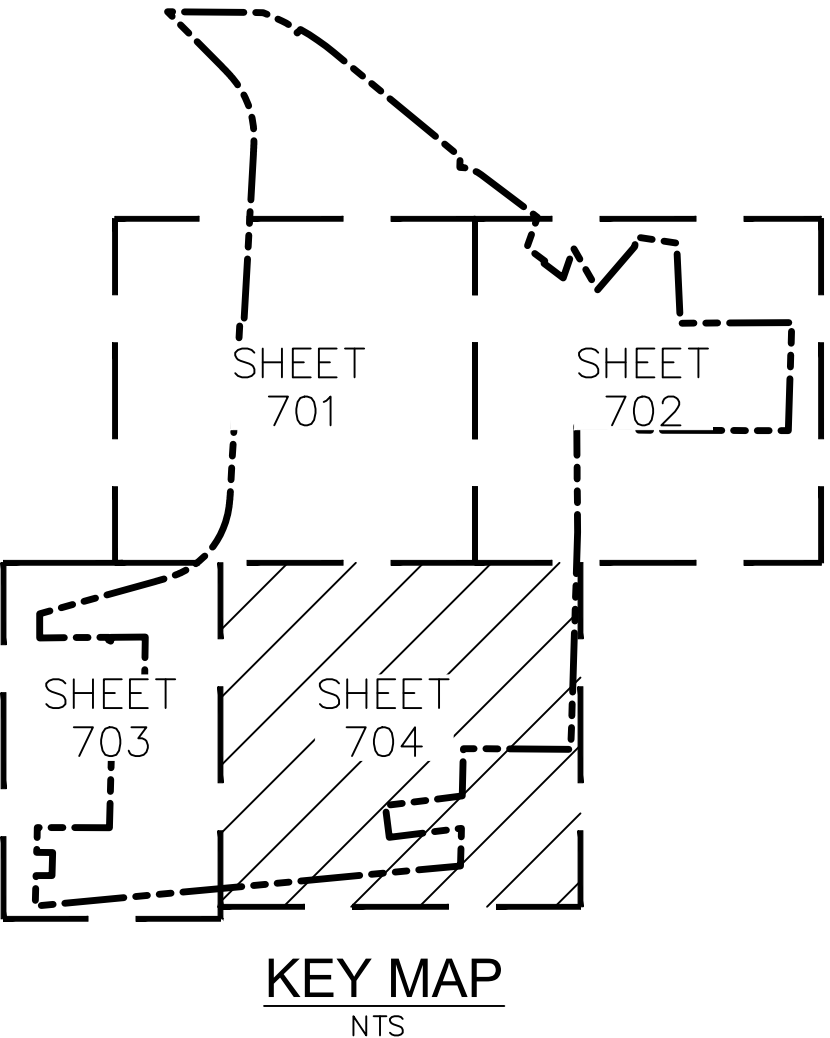
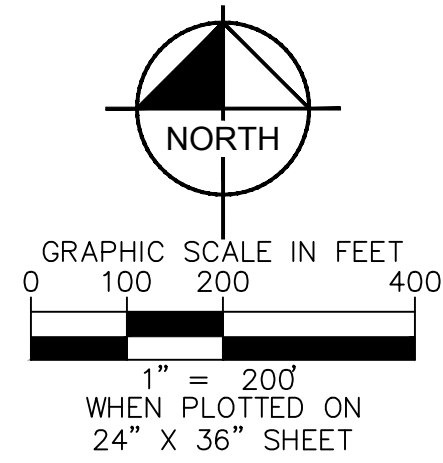


MATCHLINE SHEET 701

MATCHLINE SHEET 702



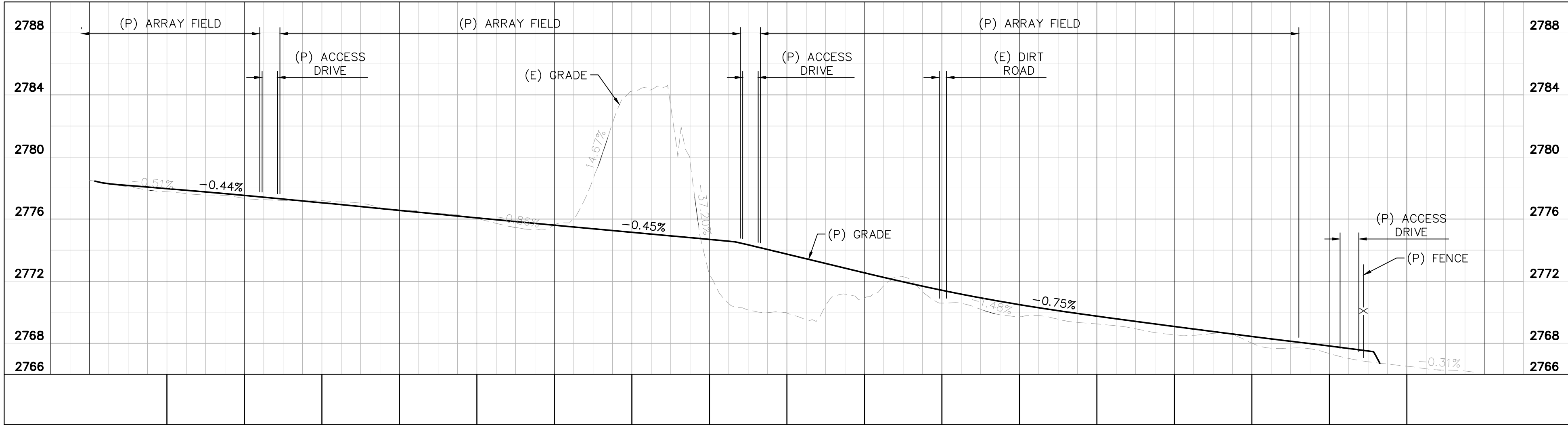
SLOPES TABLE	
COLOR	SLOPE RANGE
[Yellow]	0.00% - 4.99%
[Orange]	5.00% - 9.99%
[Light Orange]	10.00% - 24.99%
[Red-Orange]	25.00% - 32.99%
[Red]	33.00% - 49.99%
[Dark Red]	50.00% - 65.99%
[Brown]	> 66.00%



704 - ENLARGED GRADING PLAN

COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT		
SHEET 9	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
GRADING PLAN FOR:		
JVR ENERGY PARK		
CALIFORNIA COORDINATE INDEX SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		ENGINEER OF WORK:
		DAVID M. BOSSU (78103) R.C.E.
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.		GRADING PERMIT NO: PDS2019-LDGRMJ-30240

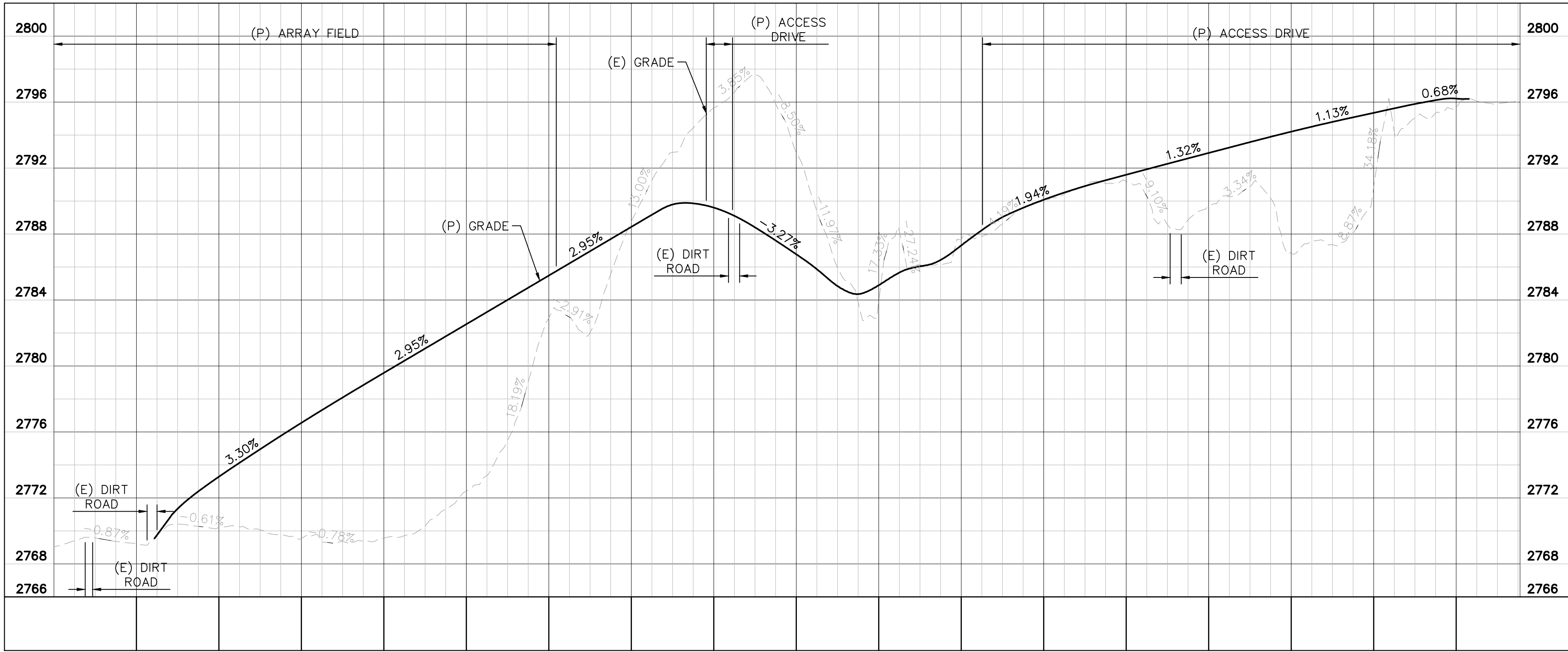


SECTION

SCALE
H: 1" = 100'
V: 1" = 5'

A

701

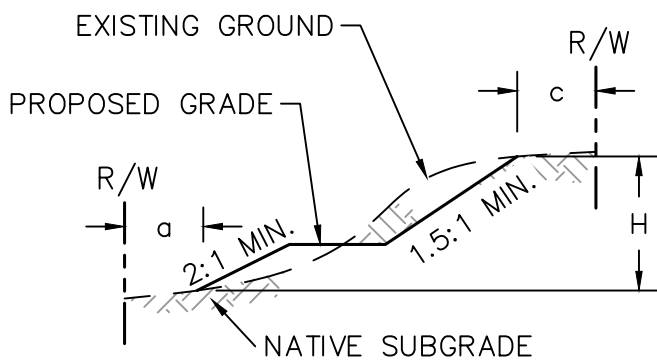


SECTION

SCALE
H: 1" = 100'
V: 1" = 5'

B

701

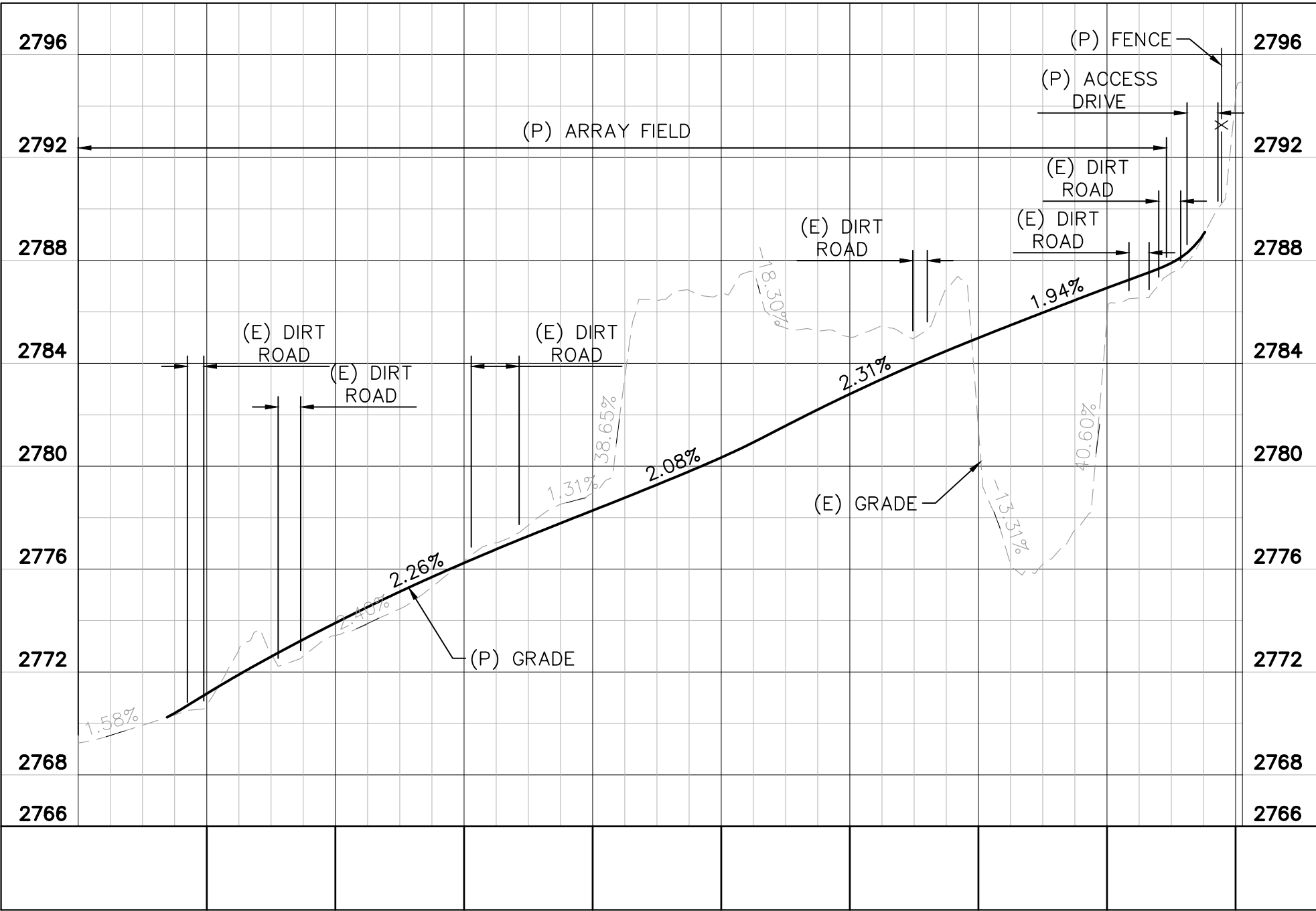


SLOPE GRADING STANDARDS

SCALE: NTS

PER SAN DIEGO COUNTY GRADING ORDINANCE SEC. 87.412

REQUIRED SETBACKS		
H [ft]	a	c
0 - 15'	1'-6"	3'-0"
15 - 30'	3'-0"	5'-0"
over 30'	5'-0"	5'-0"

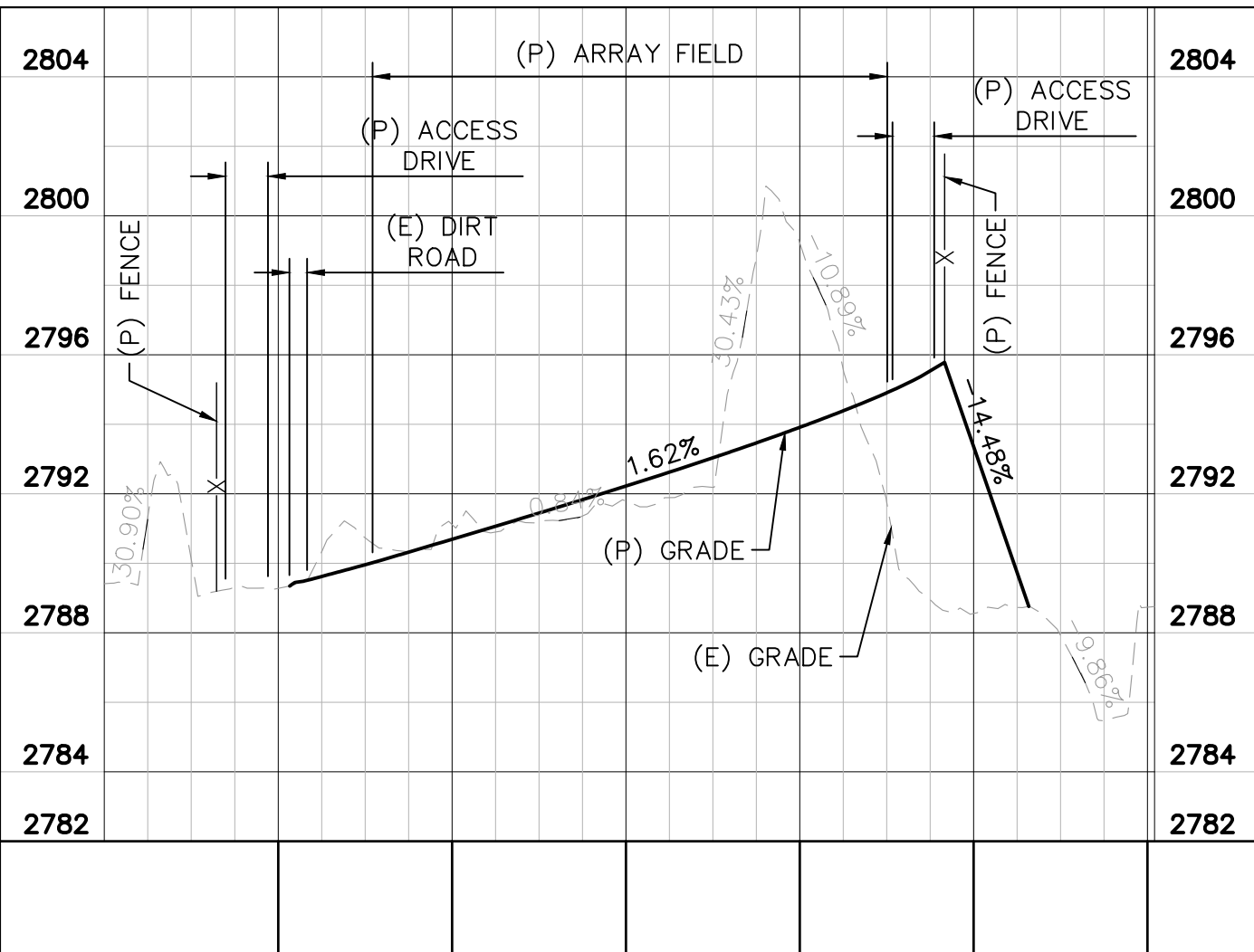


SECTION

SCALE
H: 1" = 100'
V: 1" = 5'

C

701



SECTION

SCALE
H: 1" = 100'
V: 1" = 5'

D

702



705 - SECTIONS

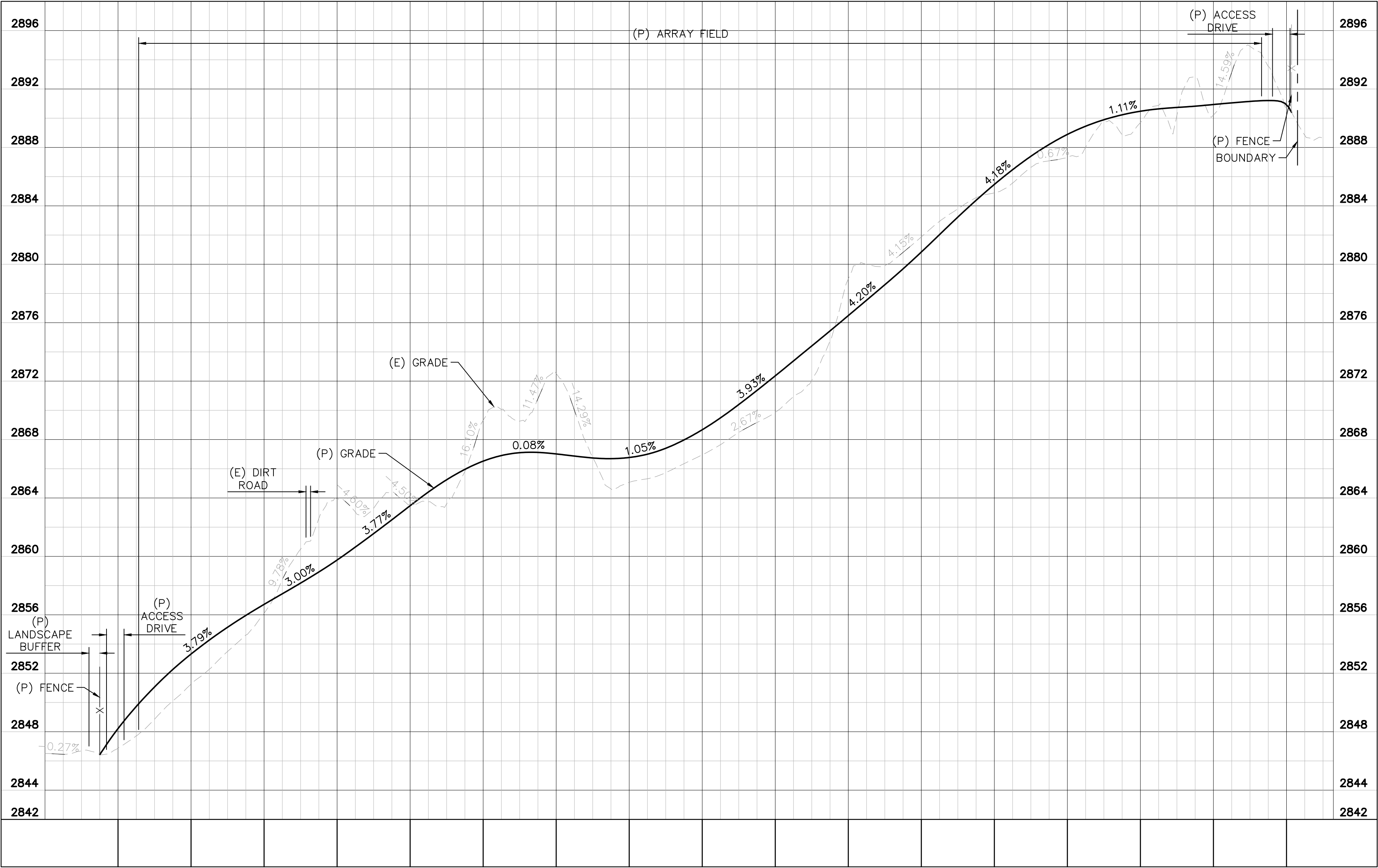
COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

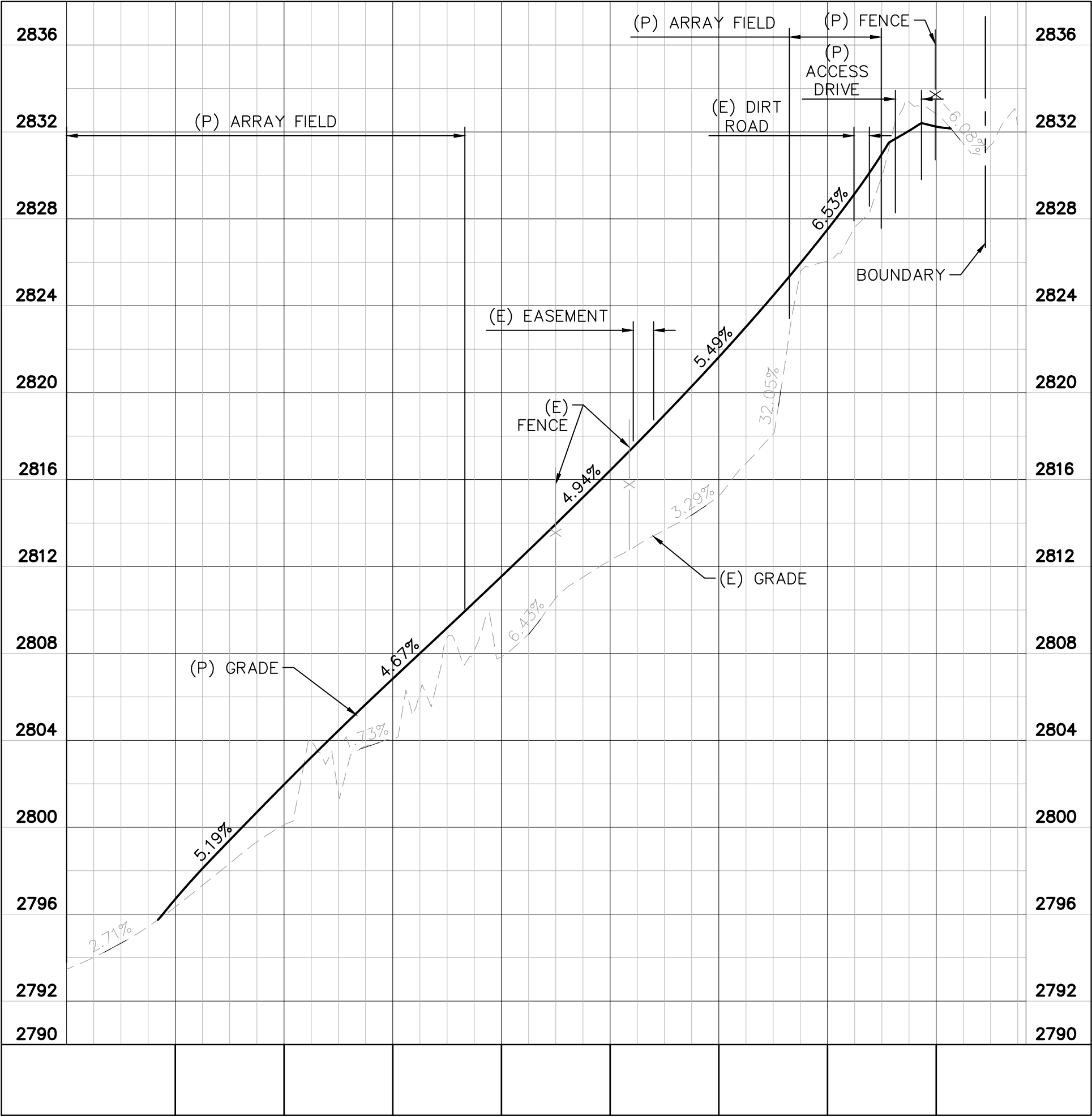
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.

PRIVATE CONTRACT

SHEET 10	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
GRADING PLAN FOR: JVR ENERGY PARK CALIFORNIA COORDINATE INDEX SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK: DAVID M. BOSSU (78103) R.C.E.	
GRADING PERMIT NO: PDS2019-LDGRMJ-30240		

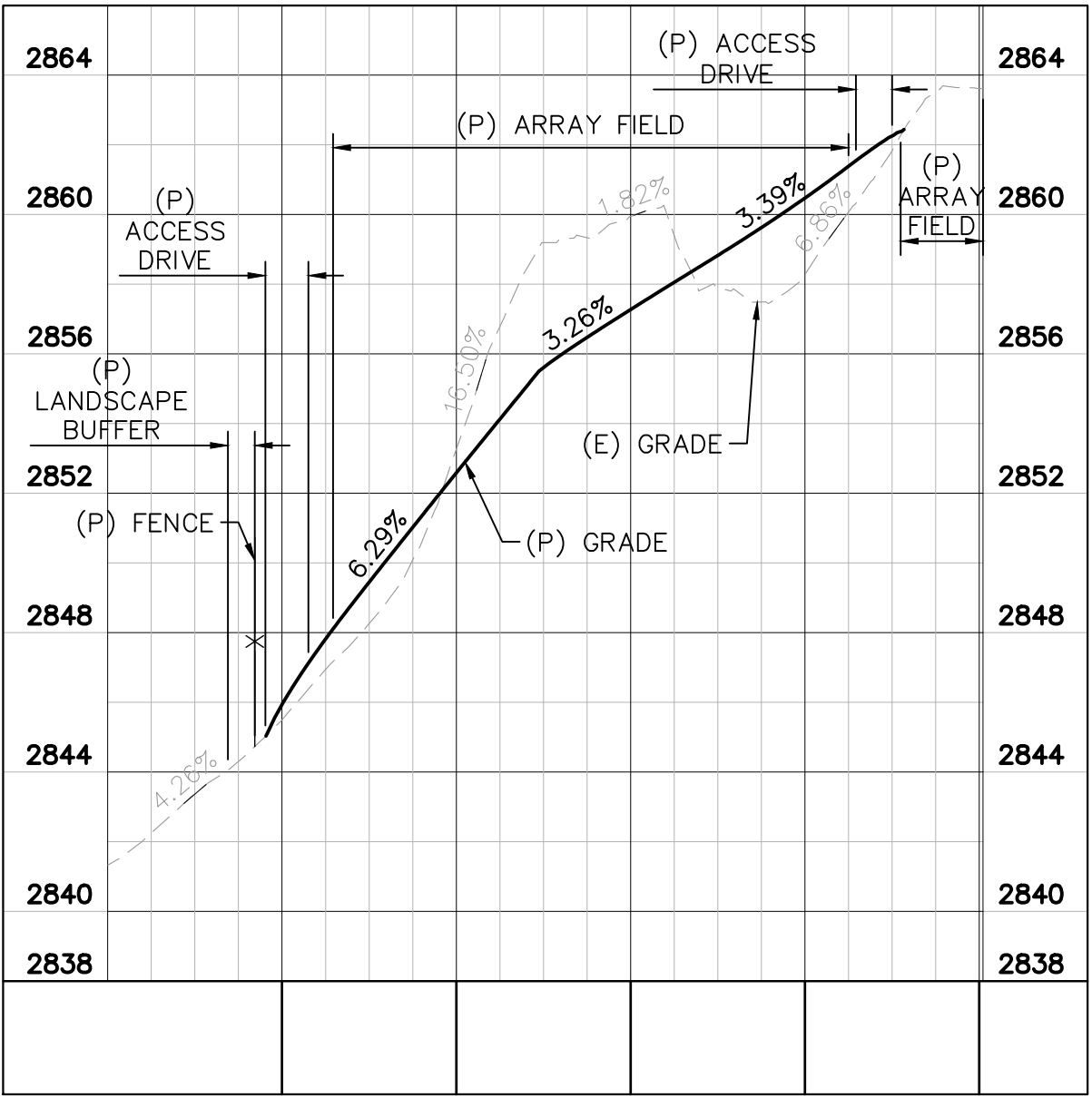


SECTION
SCALE
H: 1" = 100'
V: 1" = 5'



SECTION
SCALE
H: 1" = 100'
V: 1" = 5'

E
702

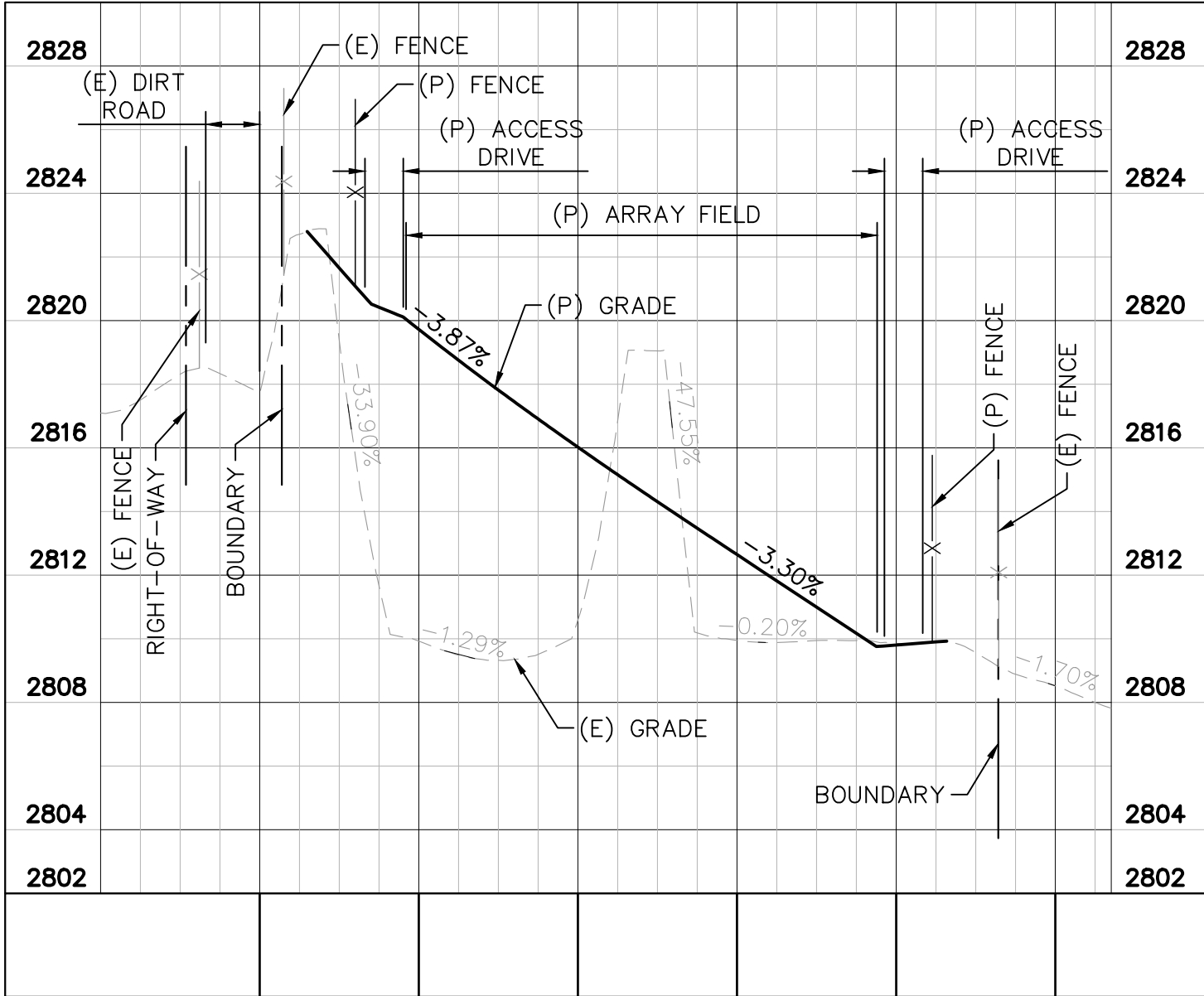


SECTION
SCALE
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V: 1" = 5'

F
702



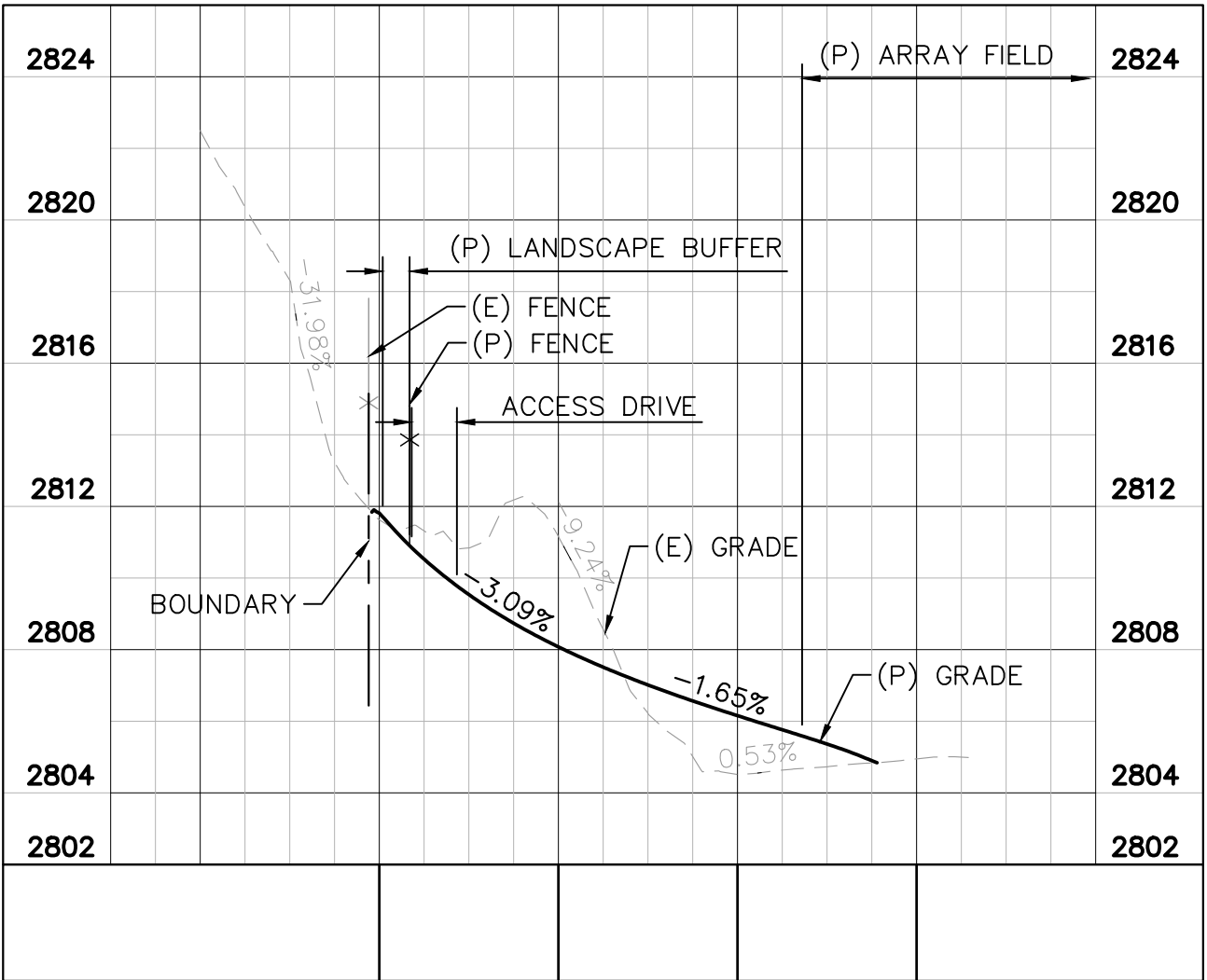
706 - SECTIONS		
COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:
PRIVATE CONTRACT		
SHEET 11	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
GRADING PLAN FOR:		
JVR ENERGY PARK		
CALIFORNIA COORDINATE INDEX SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		ENGINEER OF WORK:
		DAVID M. BOSSU (78103) R.C.E.
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.		GRADING PERMIT NO: PDS2019-LDGRMJ-30240



SECTION

SCALE
H: 1" = 100'
V: 1" = 5'

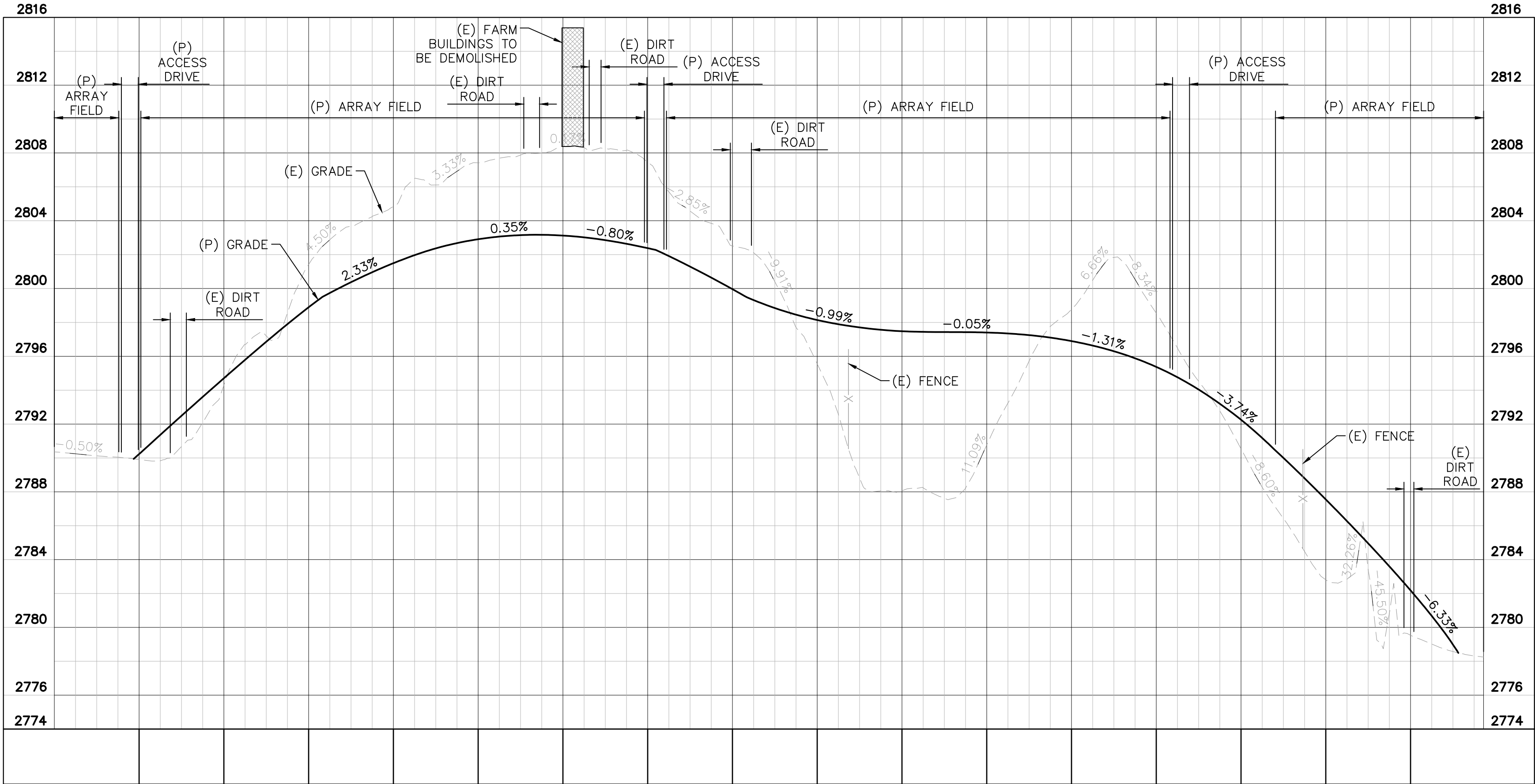
I
704



SECTION

SCALE
H: 1" = 100'
V: 1" = 5'

H
703



SECTION

SCALE
H: 1" = 100'
V: 1" = 5'

J
704



707 - SECTIONS

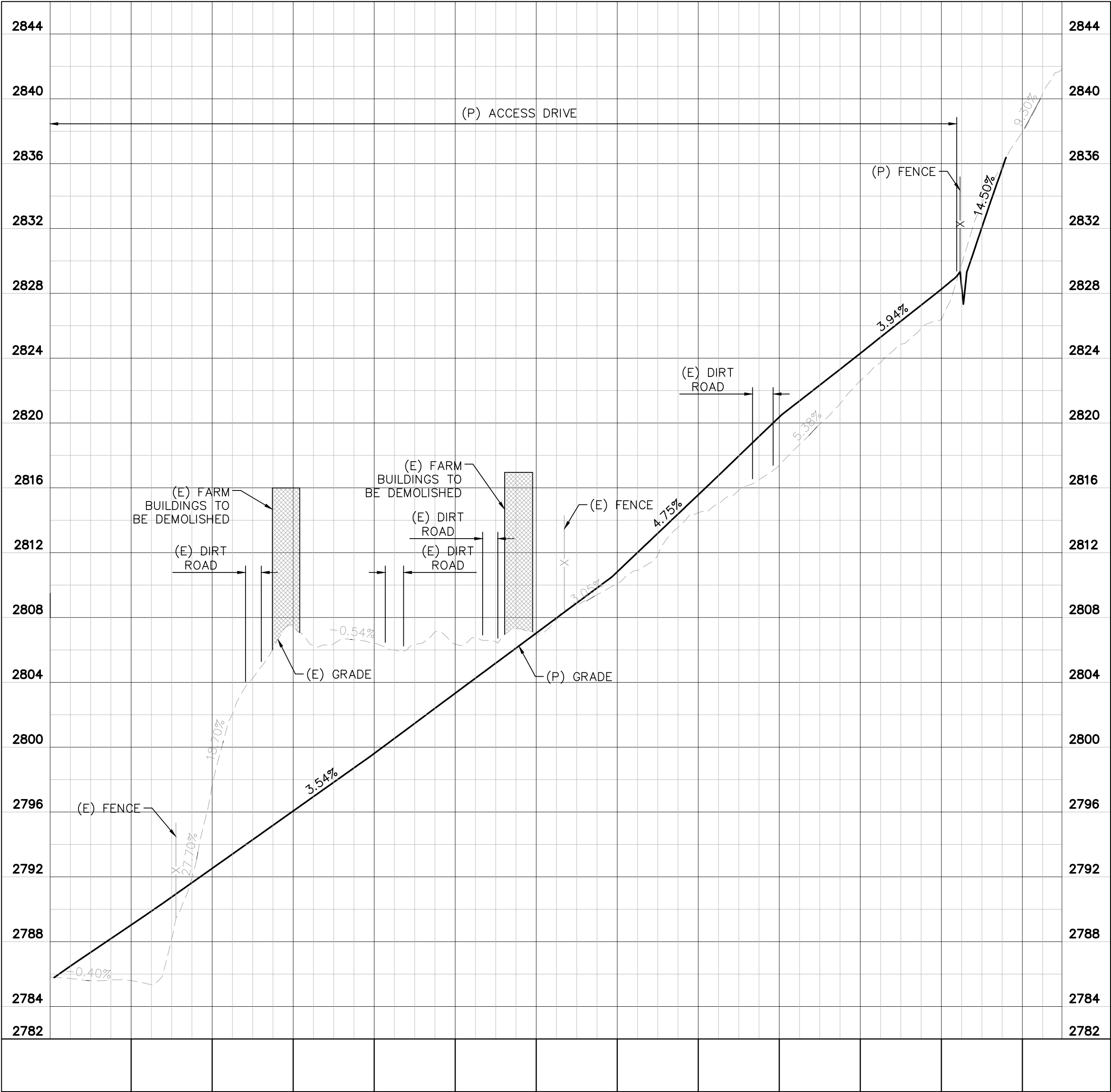
COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 12	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
GRADING PLAN FOR:		
JVR ENERGY PARK		
CALIFORNIA COORDINATE INDEX <u>SYSTEM 83, ZONE 6, NAD83</u> <u>EPOCH 2010.00</u>		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK:	
	<u>DAVID M. BOSSU (78103)</u> R.C.E.	
	GRADING PERMIT NO: PDS2019-LDGRMJ-30240	

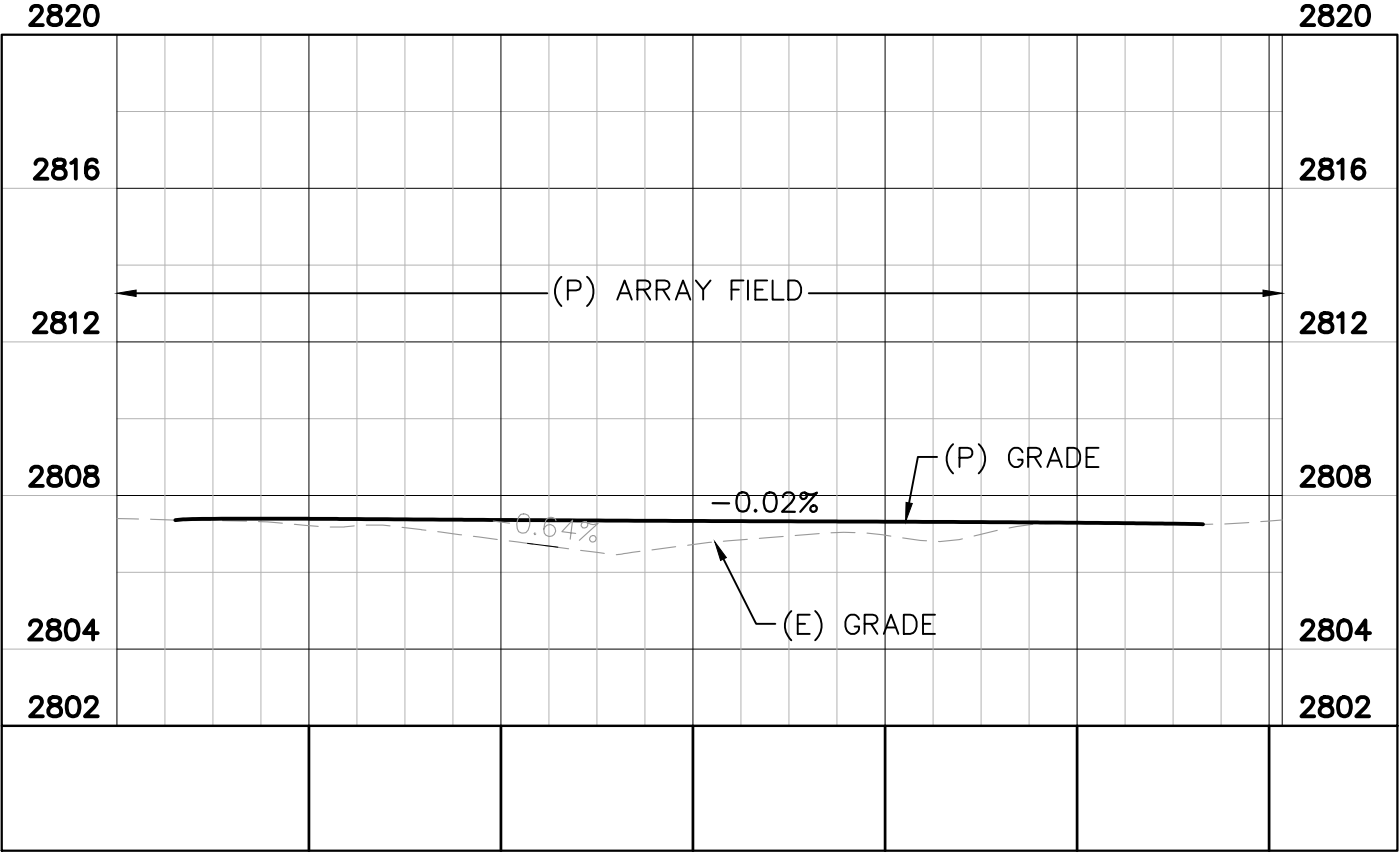
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.



SECTION

SCALE
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V: 1" = 5'

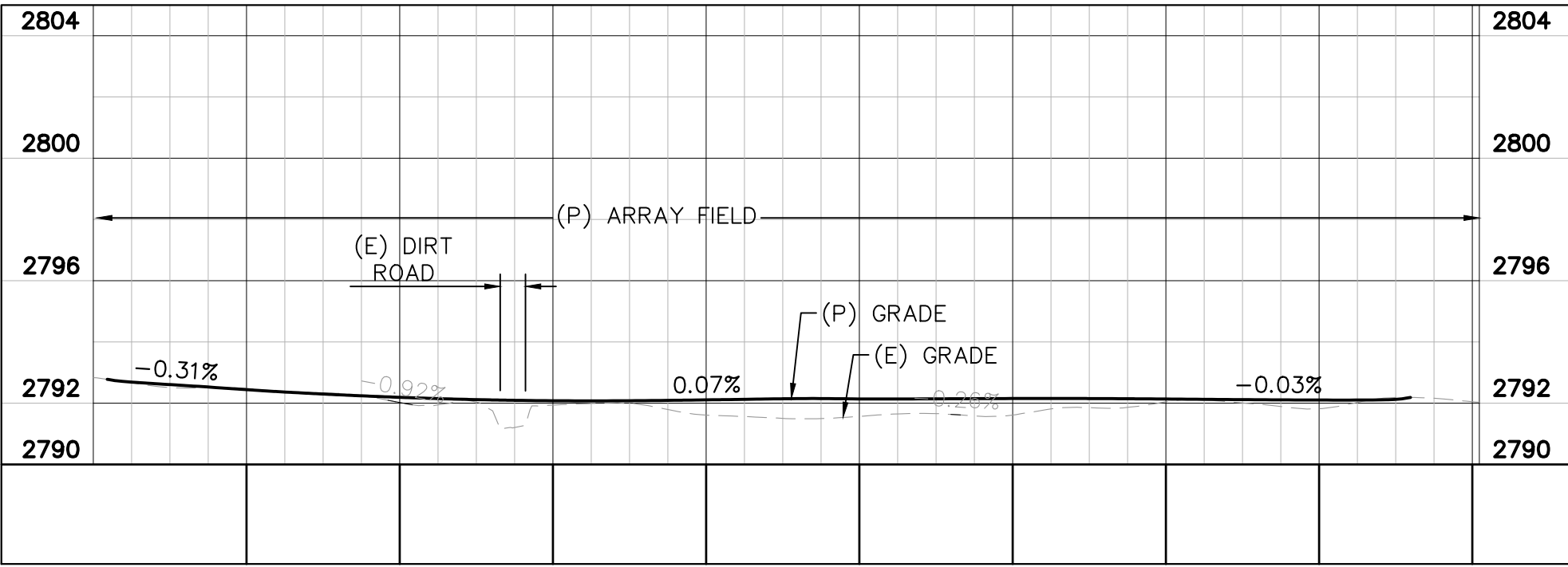
K
704



SECTION

SCALE
H: 1" = 100'
V: 1" = 5'

L
704



SECTION

SCALE
H: 1" = 100'
V: 1" = 5'

M
704



708 - SECTIONS			708 - SECTIONS		
COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 13	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	13 SHEETS
			GRADING PLAN FOR:		
			JVR ENERGY PARK		
			CALIFORNIA COORDINATE INDEX SYSTEM 83, ZONE 6, NAD83 EPOCH 2010.00		
			APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		
PURPOSE OF GRADING: PREPARE THE SITE FOR PV SOLAR FACILITY WITH SAT RACKING, BATTERIES, SUBSTATIONS, ETC.			ENGINEER OF WORK:		
			DAVID M. BOSSU (78103) R.C.E.		
			GRADING PERMIT NO: PDS2019-LDGRMJ-30240		