APPENDIX B GRADING AND DRAINAGE PLAN

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PRELIMINARY CIVIL CONSTRUCTION PLANS

FOR BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

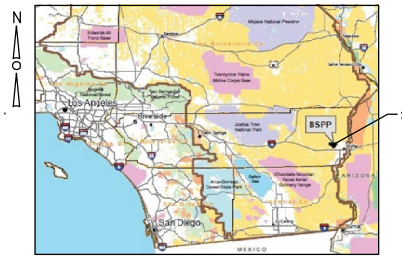
FOR

AMENDMENT TO BUREAU OF LAND MANAGEMENT
BLM LAND USE APPLICATION FILE #CACA-048811

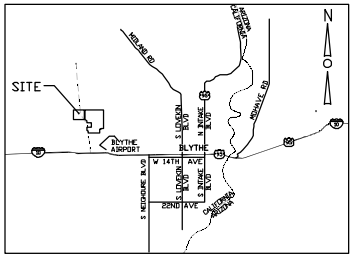
ACCESS ROADS, DRAINAGE AND EROSION CONTROL

SHEET INDEX		
SHEET No.	DRAWING No.	TITLE
1	BSPP-1-DW-112-000-001	COVER SHEET
2	BSPP-1-DW-112-101-001	SITE BOUNDARY
3	BSPP-1-DW-112-101-002	KEY MAP
4	BSPP-1-DW-112-735-000	CONSTRUCTION AND GENERAL NOTES
5	BSPP-1-DW-112-735-001	PRELIMINARY GRADING PLAN I
6	BSPP-1-DW-112-735-002	PRELIMINARY GRADING PLAN II
7	BSPP-1-DW-112-735-003	PRELIMINARY GRADING PLAN III
8	BSPP-1-DW-112-735-004	TYPICAL GRADING SECTIONS AND DETAILS
9	BSPP-1-DW-112-735-005	FENCE AND LIGHT DETAILS
10	BSPP-1-DW-112-735-006	TORTOISE GUARD DETAIL
11	BSPP-1-DW-112-735-007	WASH CROSSING DETAIL
12	BSPP-1-DW-112-717-001	EROSION CONTROL PLAN
13	BSPP-1-DW-112-717-002	EROSION CONTROL NOTES

REGIONAL MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



VICINTY MAP
NOT TO SCALE

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	TECH SPEC	PROJECT ENGINEER	PROJECT MANAGER
B	12-21-12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ
A	12-14-12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

PRELIMINARY STATUS — DATE — LDE: REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

APPROVED STATUS — DATE — LDE: REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

ORIGINATING PERSONNEL	PROFESSIONAL ENGINEER'S SEAL
DRAWN BY: A. PRATT	
CHECKED BY: J. BRAVO	
LEAD DESIGNER: A. PRATT	
ENGINEER/TECH SPECIALIST: J. BRAVO	
PROJECT ENGINEERING MANAGER: R. HILL	
PROJECT MANAGER: A. ZIMMERMAN	

Zero Harm Leadership No Incidents Safe Behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
PE: _____ STATE: _____
LIC. NO: _____ DATE: _____

CONCEPTUAL
ENGINEERING PLANS

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

APPLICANT:
NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
700 UNIVERSE BOULEVARD
JUNO BEACH, FL 33408

LANDOWNER:
BUREAU OF LAND MANAGEMENT
PALM SPRINGS/SOUTH COAST FIELD OFFICE
1201 BIRD CENTER DRIVE
PALM SPRINGS, CA 92262

PROJECT OWNER:
NEXTERA ENERGY RESOURCES, LLC
700 UNIVERSE BOULEVARD
JUNO BEACH, FL 33408

ENGINEER:
WORLEYPARSONS
2330 E. BIDWELL ST. SUITE 150
FOLSOM, CA 95630
916-817-3920

WorleyParsons resources & energy

CLIENT/PROJECT TITLE
NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

COVER SHEET

SCALE	DRAWING SIZE
NOT TO SCALE	ARCH D (36" x 24")

WORLEYPARSONS DWG. NO.	SHEET NO.	REV
BSPP-1-DW-112-000-001	1	B

01_BSPP-1-DW-112-000-001_Cover Sheet.dwg
12-14-2012 - 10:46

LEGEND:

- EASEMENT
- 230 KV DOUBLE CIRCUIT (BLYTHE GEN-TIE)
- PROPOSED FENCE
- PROJECT BOUNDARY
- 500 EXISTING CONTOUR
- 230 KV DOUBLE CIRCUIT (McCOY GEN-TIE)
- INVERTER AND TRANSFORMER PADS
- PROPOSED SINGLE AXIS TRACKER WITH PANELS
- PROPOSED GRAVEL ROAD
- PROPOSED PAVED ROAD
- UNIT BOUNDARY

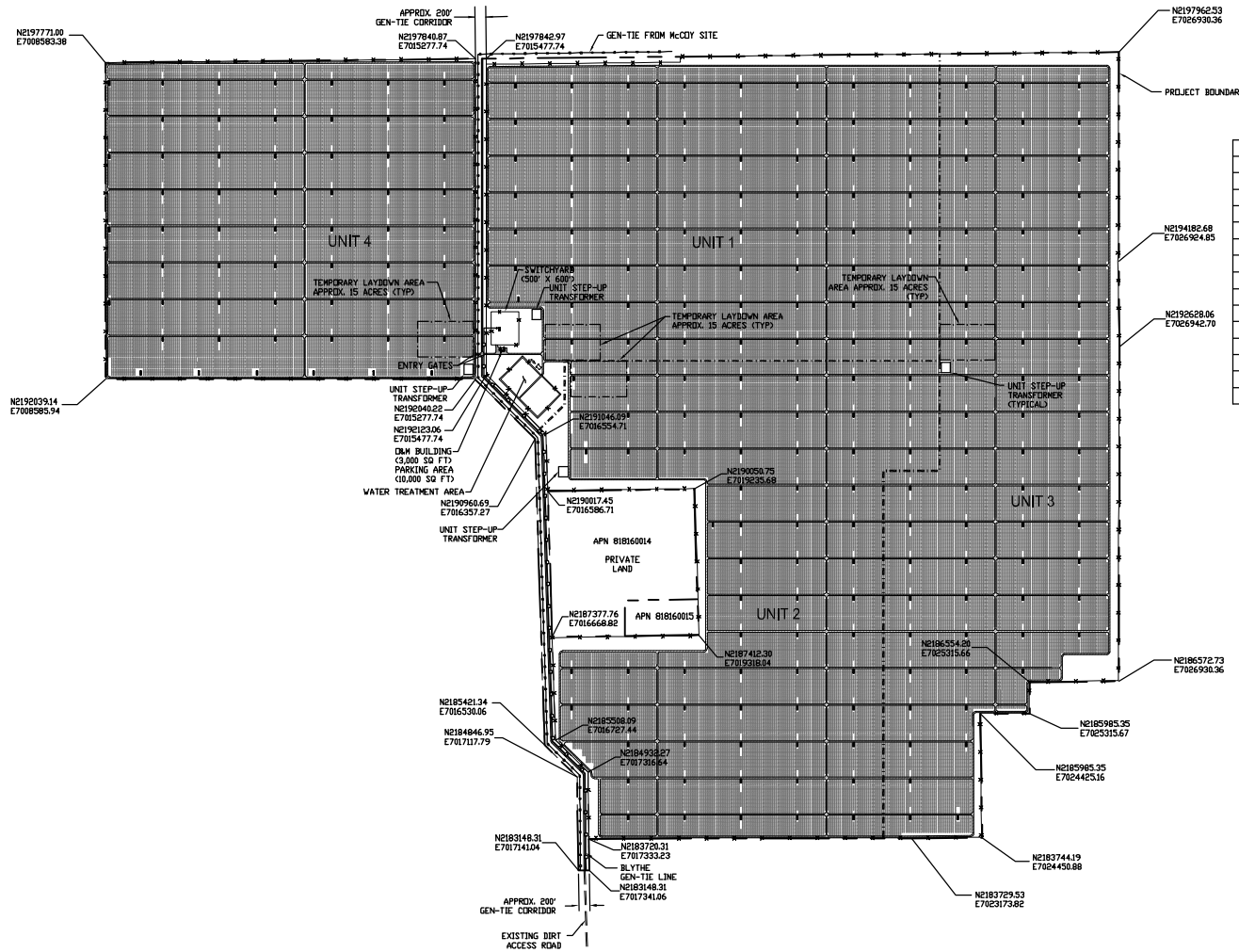
NOTE:

BASIS OF BEARINGS
THE BASIS OF BEARINGS FOR THE SURVEY IS THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE 6, BASED ON LOCAL CONTROL STATIONS BETWEEN NATIONAL GEODETIC SURVEY (NGS) GPS OBSERVATION MONUMENTS "HPGN CA 11 15", "E 1363" AND "FLY" NAD 1983 (NSRS 2007.00) AS PER THE NATIONAL GEODETIC SURVEY (NGS) PUBLISHED DATA SHEET BEING "N89°08'26"E" AND "N87°24'10"E".

CONVERGENCE ANGLE & FACTOR
CONVERGENCE ANGLE AT NE COR SECTION 15: +00°49'03.46"
COMBINED FACTOR AT NE COR SECTION 15: 0.99995058

DATUM STATEMENT
UNLESS OTHERWISE NOTED, ALL MEASUREMENTS SHOWN ON THIS MAP ARE GROUND DISTANCES, GRID DISTANCES MAY BE OBTAINED BY MULTIPLYING THE COMBINED SCALE FACTOR 0.99995058
THE COMBINED FACTOR IS COMPUTED AT THE NE COR SECTION 15, T6S, R21E, SBM, ELEVATION 414'

N



PLAN

1,000 0 1,000 2,000 3,000

SCALE: 1" = 1,000'

ACREAGE USAGE

UNIT 1	990.5 AC
UNIT 2	994.5 AC
UNIT 3	992.8 AC
UNIT 4	883.9 AC
GEN-TIE CORRIDOR/EASEMENT (INCLUDES MAIN ACCESS ROAD)	100.8 AC
MAIN ACCESS ROAD (24' WIDE)	8.6 AC
OFFICE/MAINTENANCE BLDG	3000 SQ FT
PAVED ROAD (24' WIDE)	0.9 AC
UNPAVED ROAD (16' AND 24' WIDE)	197.9 AC
SWITCHYARD	6.9 AC
UNIT STEP-UP TRANSFORMERS	2.8 AC
PCS AREAS	13.9 AC
WATER TREATMENT AREA	0.1 AC
EVAPORATION PONDS	13.7 AC
AREA IN AND AROUND SOLAR FIELDS REMAINING UNGRADED	93.7 AC
	4301.07 ACRES TOTAL

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	TECH SPEC	ENGINEER MANAGER	PROJECT MANAGER
B	02/27/12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ
A	12/28/11	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

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REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

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ENGINEER/TECH SPECIALIST: J. BRAVO
PROJECT ENGINEERING MANAGER: R. HILL
PROJECT MANAGER: A. ZIMMERMAN

PROFESSIONAL ENGINEER'S SEAL

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
PE: — — — STATE: — — —
LIC. NO: — — — DATE: — — —

Zero Harm — Leadership No Incidents Date Behalf

WorleyParsons resources & energy

CLIENT/PROJECT TITLE
NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

CONCEPTUAL ENGINEERING PLANS

NOT FOR CONSTRUCTION FOR PERMITTING ONLY

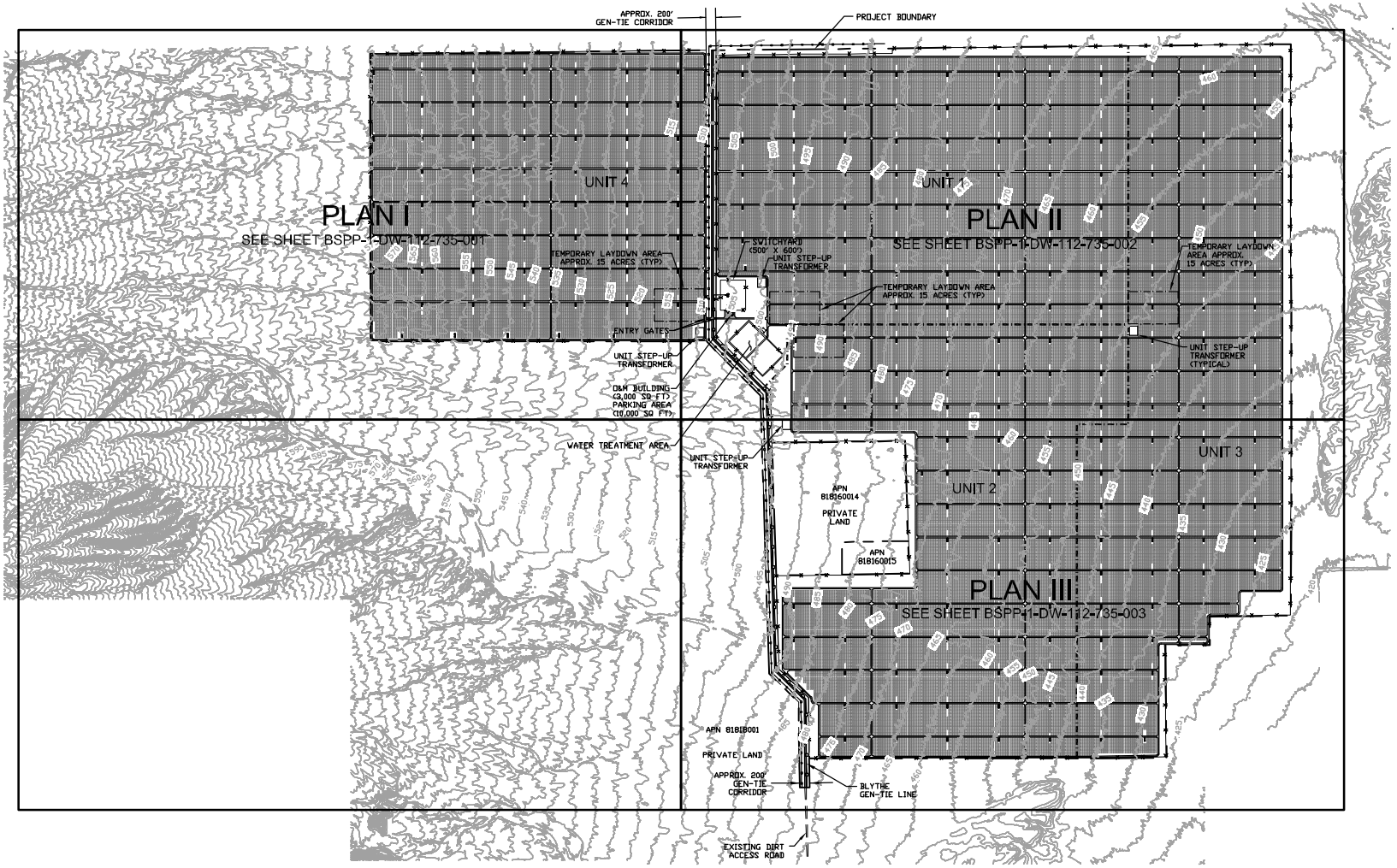
SITE BOUNDARY

SCALE: 1" = 1000' | DRAWING SIZE: ARCH D (36" x 24")
WORLEYPARSONS DWG. NO.: BSPP-1-DW-112-101-001 | SHEET NO.: 2 | REV: B

BSPP-1-DW-112-101-001_Site Boundary Plotting
25-Feb-2012 - 09:40

LEGEND:

- EASEMENT
- 230 KV DOUBLE CIRCUIT (BLYTHE GEN-TIE)
- PROPOSED FENCE
- PROJECT BOUNDARY
- 500 EXISTING CONTOUR
- 230 KV DOUBLE CIRCUIT (McCOY GEN-TIE)
- INVERTER AND TRANSFORMER PADS
- PROPOSED SINGLE AXIS TRACKER WITH PANELS
- PROPOSED GRAVEL ROAD
- PROPOSED PAVED ROAD
- UNIT BOUNDARY



KEY PLAN

1,000 0 1,000 2,000 3,000

SCALE: 1" = 1,000'

CONCEPTUAL ENGINEERING PLANS

NOT FOR CONSTRUCTION FOR PERMITTING ONLY

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	ENGINEER/TECH SPECIALIST	PROJECT ENGINEERING MANAGER	PROJECT MANAGER
B	02/27/13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ
A	12/28/12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

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ORIGINATING PERSONNEL

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ENGINEER/TECH SPECIALIST: J. BRAVO
PROJECT ENGINEERING MANAGER: R. HILL
PROJECT MANAGER: A. ZIMMERMAN

PROFESSIONAL ENGINEER'S SEAL

Zero Harm Leadership No Incidents Safe Behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF PE ____ STATE ____ LIC. NO. ____ DATE ____

WorleyParsons resources & energy

CLIENT/PROJECT TITLE

NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

KEY MAP

SCALE	DRAWING SIZE	WORLEYPARSONS DWG. NO.	SHEET NO.	REV
1" = 1000'	ARCH D (36" x 24")	BSPP-1-DW-112-101-002	3	B

03_BSPP-1-DW-112-101-002_Key Plan.dwg
27-Feb-2013 - 2:42

DEPARTMENT OF BUILDING AND SAFETY COUNTY OF RIVERSIDE
GRADING NOTES (2010 CBC)

GENERAL

1. ALL GRADING SHALL CONFORM TO THE 2010 CALIFORNIA BUILDING CODE CHAPTERS 17, 18 & APPENDIX CHAPTER- J AS AMENDED BY ORD. 457.
2. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION/GRADING.
3. ALL WORK UNDER THIS GRADING PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. ALL WORK WITHIN THE ROAD RIGHT-OF- WAY WILL REQUIRE SEPARATE PLANS AND A SEPARATE REVIEW/APPROVAL (PERMIT) FROM THE TRANSPORTATION DEPARTMENT.
4. GRADING SHALL BE DONE UNDER THE SUPERVISION OF A SOILS ENGINEER IN CONFORMANCE WITH RECOMMENDATIONS OF THE PRELIMINARY SOILS INVESTIGATION BY KLEINFELDER DATED SEPTEMBER 23, 2009.
5. COMPACTED FILL TO SUPPORT ANY STRUCTURES SHALL COMPLY WITH SECTION 1803.5. PROJECTS WITHOUT PRELIMINARY SOILS REPORT SHALL HAVE DETAILED SPECIFICATIONS SATISFYING THE REQUIREMENTS IN SECTION 1803.5 PREPARED BY THE EOR.
6. THE CONTRACTOR SHALL NOTIFY THE BUILDING AND SAFETY DEPARTMENT AT LEAST 24 HOURS IN ADVANCE TO REQUEST FINISH LOT GRADE AND DRAINAGE INSPECTION. THIS INSPECTION MUST BE APPROVED PRIOR TO BUILDING PERMIT FINAL INSPECTION FOR EACH LOT.
7. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE DIGGING AT 1-800-422-4133.

CUT / FILL

8. MAXIMUM CUT AND FILL SLOPE = 2:1.
9. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL. FILLS SHOULD BE PLACED IN THIN LIFTS (8-INCH MAX OR AS RECOMMENDED IN SOILS REPORT), COMPACTED AND TESTED AS GRADING PROCESS UNTIL FINAL GRADES ARE ATTAINED. ALL FILLS ON SLOPES STEEPER THAN 5 TO 1 (H/V) AND A HEIGHT GREATER THAN 5 FEET SHALL BE KEYED AND BENCHED INTO FIRM NATURAL SOIL FOR FULL SUPPORT. THE BENCH UNDER THE TOE MUST BE 10 FEET WIDE MIN.
10. THE SLOPE STABILITY FOR CUT AND FILL SLOPES OVER 30' IN VERTICAL HEIGHT, OR SLOPES STEEPER THAN 2:1 MUST BE VERIFIED WITH A FACTOR OF SAFETY OF AT LEAST 1.5.
11. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12 INCHES SHALL BE BURIED OR PLACED IN FILLS CLOSER THAN 10 FEET TO THE FINISHED GRADE.

DRAINAGE AND EROSION/ DUST CONTROL

12. DRAINAGE ACROSS THE PROPERTY LINE SHALL NOT EXCEED THAT WHICH EXISTED PRIOR TO GRADING. EXCESS OR CONCENTRATED DRAINAGE SHALL BE CONTAINED ON SITE OR DIRECTED TO AN APPROVED DRAINAGE FACILITY.
13. PROVIDE A SLOPE INTERCEPTOR DRAIN ALONG THE TOP OF CUT SLOPES WHERE THE DRAINAGE PATH IS GREATER THAN 40 FEET TOWARDS THE CUT SLOPE.
14. PROVIDE 5 ' WIDE BY 1' HIGH BERM ALONG THE TOP OF ALL FILL SLOPES STEEPER THAN 3:1.
15. THE GROUND IMMEDIATELY ADJACENT TO THE BUILDING FOUNDATION SHALL BE SLOPED AWAY WITH 5% MIN FOR A MIN DISTANCE OF 10 HORIZONTAL FEET. SWALES WITHIN 10 FEET FROM BUILDING SHALL HAVE 2% MINIMUM SLOPE.
16. NO OBSTRUCTION OF NATURAL WATER COURSES SHALL BE PERMITTED.
17. DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL (BEST MANAGEMENT PRACTICES, BMPS) SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.
18. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
19. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING OPERATIONS.
20. FOR SLOPES 3 TO 1 (H/V) OR STEEPER:
ALL SLOPES EQUAL TO OR GREATER THAN 3 ' IN VERTICAL HEIGHT, ARE REQUIRED TO BE PLANTED WITH GRASS OR ROSEA ICE PLANT (OR EQUAL) GROUND COVER AT A MAXIMUM SPACING OF 12' ON CENTER. SLOPES EXCEEDING 15 ' IN VERTICAL HEIGHT SHALL BE PLANTED WITH APPROVED SHRUBS NOT TO EXCEED 10' ON CENTER, OR TREES SPACED NOT TO EXCEED 20 ' ON CENTER OR SHRUBS NOT TO EXCEED 10 ', OR A COMBINATION OF SHRUBS AND TREES NOT TO EXCEED 15 ' IN ADDITION TO THE GRASS OR GROUND COVER. SLOPES THAT REQUIRE PLANTING SHALL BE PROVIDED WITH AN IN-GROUND IRRIGATION SYSTEM EQUIPPED WITH AN APPROPRIATE BACKFLOW DEVICE PER U.P.C., CHAPTER 10. THE SLOPE PLANTING AND IRRIGATION SYSTEM SHALL BE INSTALLED PRIOR TO PRECISE GRADING FINAL.

COMPLETION OF WORK

21. A REGISTERED CIVIL ENGINEER SHALL PREPARE FINAL COMPACTION REPORT/ GRADING REPORT AND IT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. THE REPORT SHALL ALSO PROVIDE BUILDING FOUNDATION DESIGN PARAMETERS INCLUDING ALLOWABLE SOIL PRESSURES, EXPANSION INDEX AND REMEDIAL MEASURES IF EI > 20, WATER SOLUBLE SULFATE CONTENT, CORROSIVITY AND REMEDIAL MEASURES IF NECESSARY.
22. EXCEPT FOR NON-TRACT SINGLE RESIDENTIAL LOT GRADING, THE COMPACTION REPORT SHALL INCLUDE THE SPECIAL INSPECTION VERIFICATIONS LISTED IN TABLE 1704.7 OF 2010 CBC.
23. A REGISTERED CIVIL ENGINEER SHALL SUBMIT TO THE BUILDING AND SAFETY DEPARTMENT WRITTEN CERTIFICATION OF COMPLETION OF GRADING IN ACCORDANCE WITH THE APPROVED GRADING PLAN PRIOR TO REQUESTING INSPECTION AND ISSUANCE OF THE BUILDING PERMIT. CERTIFICATION SHALL INCLUDE LINE GRADE, SURFACE DRAINAGE, ELEVATION, AND LOCATION OF PERMITTED GRADING ON THE LOT.

NPDES: WHEN ONE ACRE OR MORE IS BEING DISTURBED:

1. CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPS) FOR THE MANAGEMENT OF STORM WATER AND NON-STORM WATER DISCHARGES SHALL BE DOCUMENTED ON THE GRADING PLAN WHICH THEREBY BECOMES THE SITE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). ARRANGEMENTS SHALL BE MADE BY THE DEVELOPER TO RETAIN THE SWPPP ON THE JOBSITE THROUGHOUT THE TIME OF CONSTRUCTION. THE IMPLEMENTATION AND MAINTENANCE OF SITE BMPS IS REQUIRED TO MINIMIZE JOBSITE EROSION AND SEDIMENTATION. CERTAIN BMPS MAY BE REQUIRED TO REMAIN IN PLACE THROUGHOUT THE YEAR TO MINIMIZE EROSION AND SEDIMENTATION. ARRANGEMENTS SHALL BE MADE BY THE DEVELOPER TO MAINTAIN THOSE BMPS THROUGHOUT THE TIME OF CONSTRUCTION.
2. EROSION CONTROL BMPS SHALL BE IMPLEMENTED AND MAINTAINED TO MINIMIZE THE ENTRAINMENT OF SOIL IN RUNOFF FROM DISTURBED SOIL AREAS ON CONSTRUCTION SITES.
3. SEDIMENT CONTROL BMPS SHALL BE IMPLEMENTED AND MAINTAINED TO MINIMIZE THE TRANSPORT OF SOIL FROM THE CONSTRUCTION SITE.
4. GRADING SHALL BE PHASED TO LIMIT THE AMOUNT OF DISTURBED AREAS EXPOSED TO THE EXTENT FEASIBLE.
5. AREAS THAT ARE CLEARED AND GRADED SHALL BE LIMITED TO ONLY THE PORTION OF THE SITE THAT IS NECESSARY FOR CONSTRUCTION. THE CONSTRUCTION SITE SHALL BE MANAGED TO MINIMIZE THE EXPOSURE TIME OF DISTURBED SOIL AREAS THROUGH PHASING AND SCHEDULING OF GRADING AND THE USE OF TEMPORARY AND PERMANENT SOIL STABILIZATION.
6. ONCE DISTURBED, SLOPES (TEMPORARY OR PERMANENT) SHALL BE STABILIZED IF THEY WILL NOT BE WORKED WITHIN 21 DAYS. DURING THE STORM SEASON, ALL SLOPES SHALL BE STABILIZED PRIOR TO A PREDICTED STORM EVENT. CONSTRUCTION SITES SHALL BE RE-VEGETATED AS EARLY AS FEASIBLE AFTER SOIL DISTURBANCE.
7. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO ELIMINATE OR REDUCE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
8. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT A STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE.
DISCHARGES OTHER THAN STORM WATER (NON-STORM WATER DISCHARGES) ARE PROHIBITED, EXCEPT AS AUTHORIZED BY AN INDIVIDUAL NPDES PERMIT, THE STATEWIDE GENERAL PERMIT-CONSTRUCTION ACTIVITY. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, SOLVENTS, DETERGENTS, GLUES, LIME, PESTICIDES, HERBICIDES, FERTILIZERS, WOOD PRESERVATIVES, AND ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; CONCRETE AND RELATED CUTTING OR CURING RESIDUES; FLOATABLE WASTES; WASTES FROM ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; WASTES FROM STREET CLEANING; AND SUPER-CHLORINATED POTABLE WATER FROM LINE FLUSHING AND TESTING. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
9. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITE AND MUST NOT BE DISCHARGED TO RECEIVING WATERS OR THE LOCAL STORM DRAIN SYSTEM.
10. APPROPRIATE BMPS FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED TO ELIMINATE OR REDUCE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF.
11. ALL CONSTRUCTION CONTRACTORS AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BMPS AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
12. DISCHARGING CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING GROUNDWATER THAT HAS INFILTRATED INTO THE CONSTRUCTION SITE IS PROHIBITED. DISCHARGING OF CONTAMINATED SOILS VIA SURFACE EROSION IS ALSO PROHIBITED. DISCHARGING NON- CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING ACTIVITIES MAY REQUIRE A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE REGIONAL WATER QUALITY CONTROL BOARD.
13. BMPS SHALL BE MAINTAINED AT ALL TIMES. IN ADDITION, BMPS SHALL BE INSPECTED PRIOR TO PREDICTED STORM EVENTS AND FOLLOWING STORM EVENTS.
14. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY, ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED OF IN TRASH OR RECYCLE BINS.

CONCEPTUAL
ENGINEERING PLANS

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	TECH SPEC	PROJECT ENGR	PROJECT MGR	MANAGER
B	02-27-13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	JB	RH	AZ
A	12-28-12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	JB	RH	AZ

PRELIMINARY STATUS — DATE — LDE
REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

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REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

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LEAD DESIGNER: A. PRATT
ENGINEER/TECH SPECIALIST: J. BRAVO
PROJECT ENGINEERING MANAGER: R. HILL
PROJECT MANAGER: A. ZIMMERMAN

PROFESSIONAL ENGINEER'S SEAL

Zero Harm Leadership No models Safe Behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
PE: _____ STATE: _____
LIC. NO: _____ DATE: _____

WorleyParsons
resources & energy

CLIENT/PROJECT TITLE
NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

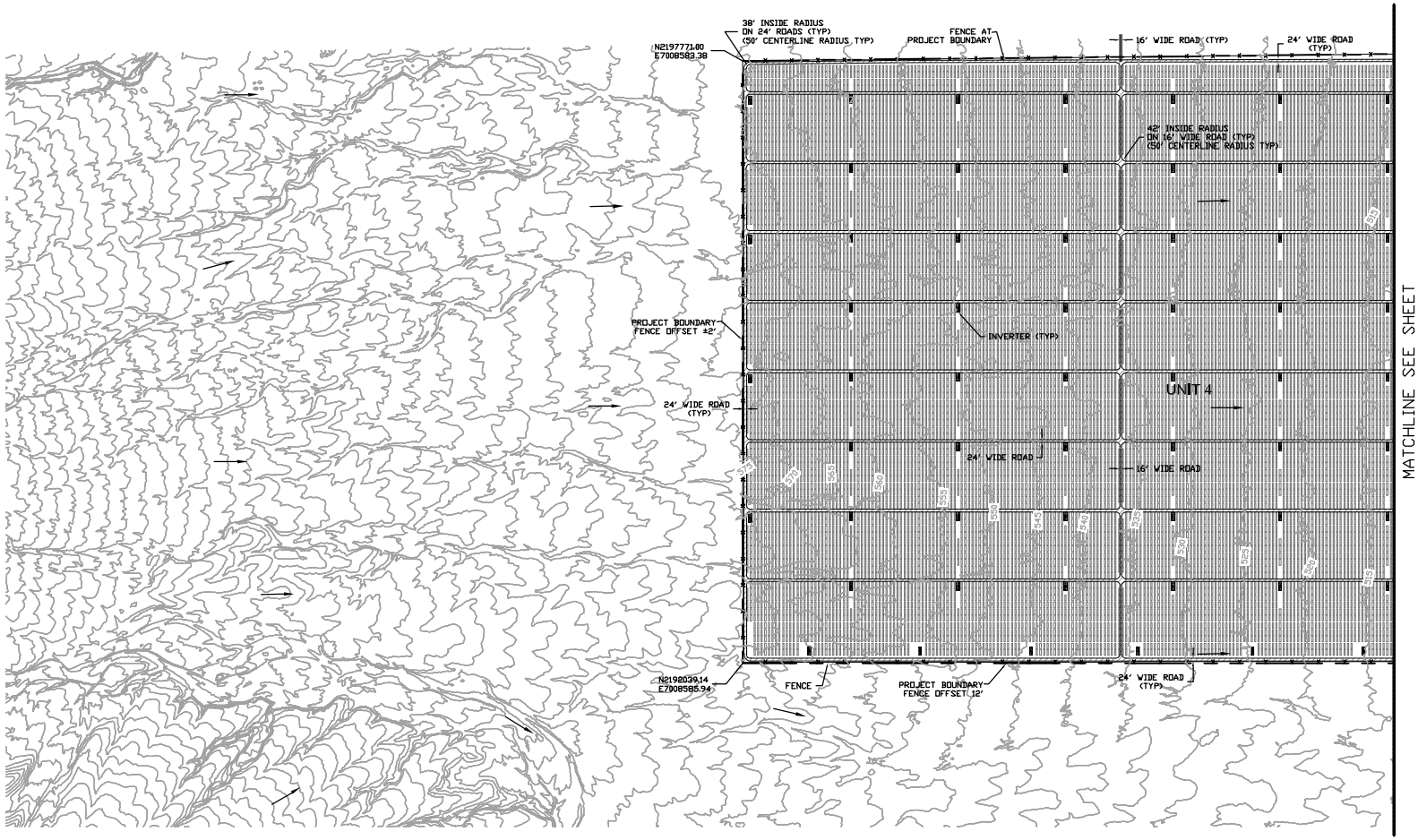
CONSTRUCTION AND
GENERAL NOTES

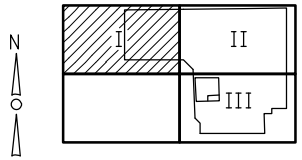
SCALE: NOT TO SCALE
DRAWING SIZE: ARCH D (36" x 24")
WORLEYPARSONS DWG. NO.: BSPP-1-DW-112-735-000
SHEET NO.: 4
REV: B

01_BSPP-1-DW-112-735-000_Const and Gen Notes.dwg
27-Feb-2013 12:00

LEGEND:

- EASEMENT
- EXISTING CONTOUR MAJOR (500)
- PROJECT BOUNDARY
- DRAINAGE FLOW DIRECTION
- PROPOSED FENCE
- UNIT BOUNDARY
- 230 KV DOUBLE CIRCUIT (BLYTHE GEN-TIE)
- 230 KV DOUBLE CIRCUIT (McCOY GEN-TIE)
- INVERTER AND TRANSFORMER PADS
- PROPOSED SINGLE AXIS TRACKER WITH PANELS
- PROPOSED GRAVEL ROAD
- PROPOSED PAVED ROAD





KEY MAP

NOTES:

1. THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR DETAILED DESIGN.
2. PERIMETER ROADS, INVERTER ACCESS ROADS, AND NORTH-SOUTH MAINTENANCE ROADS ARE 24 FT WIDE (TYPICAL). ALL OTHER MAINTENANCE ROADS ARE 16 FT WIDE (TYPICAL). SEE SHEET BSPP-1-DW-112-735-004 FOR ROAD DETAILS.
3. AN 8 FT CHAIN LINK FENCE WITH THREE STRAND BARB WIRE IS PROPOSED WITHIN PROJECT BOUNDARY WITH SUFFICIENT ROOM FOR FENCE MAINTENANCE.
4. LOCATIONS OF ALL EXISTING AND PROPOSED ITEMS ARE APPROXIMATE AND WILL NEED TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
5. FOR BASIS OF BEARINGS, CONVERGENCE & FACTOR, AND DATUM STATEMENT, SEE NOTE ON SHEET BSPP-1-DW-112-101-001.

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	TECH SPEC	PROJECT ENGINEER	PROJECT MANAGER
B	02/27/13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ
A	12/28/12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

PRELIMINARY STATUS — LDE — DATE — REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

APPROVED STATUS — LDE — DATE — REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

ORIGINATING PERSONNEL	PROFESSIONAL ENGINEER'S SEAL
DRAWN BY: A. PRATT	
CHECKED BY: J. BRAVO	
LEAD DESIGNER: A. PRATT	
ENGINEER/TECH SPECIALIST: J. BRAVO	
PROJECT ENGINEERING MANAGER: R. HILL	
PROJECT MANAGER: A. ZIMMERMAN	

Zero Harm — Leadership No Incidents Date Behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF PE: ____ STATE: ____ LIC. NO: ____ DATE: ____

WorleyParsons resources & energy

CLIENT/PROJECT TITLE

NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

PRELIMINARY GRADING PLAN I

SCALE	DRAWING SIZE
1" = 500'	ARCH D (36" x 24")

WORLEYPARSONS DWG NO.	SHEET NO.	REV
BSPP-1-DW-112-735-001	5	B

CONCEPTUAL ENGINEERING PLANS

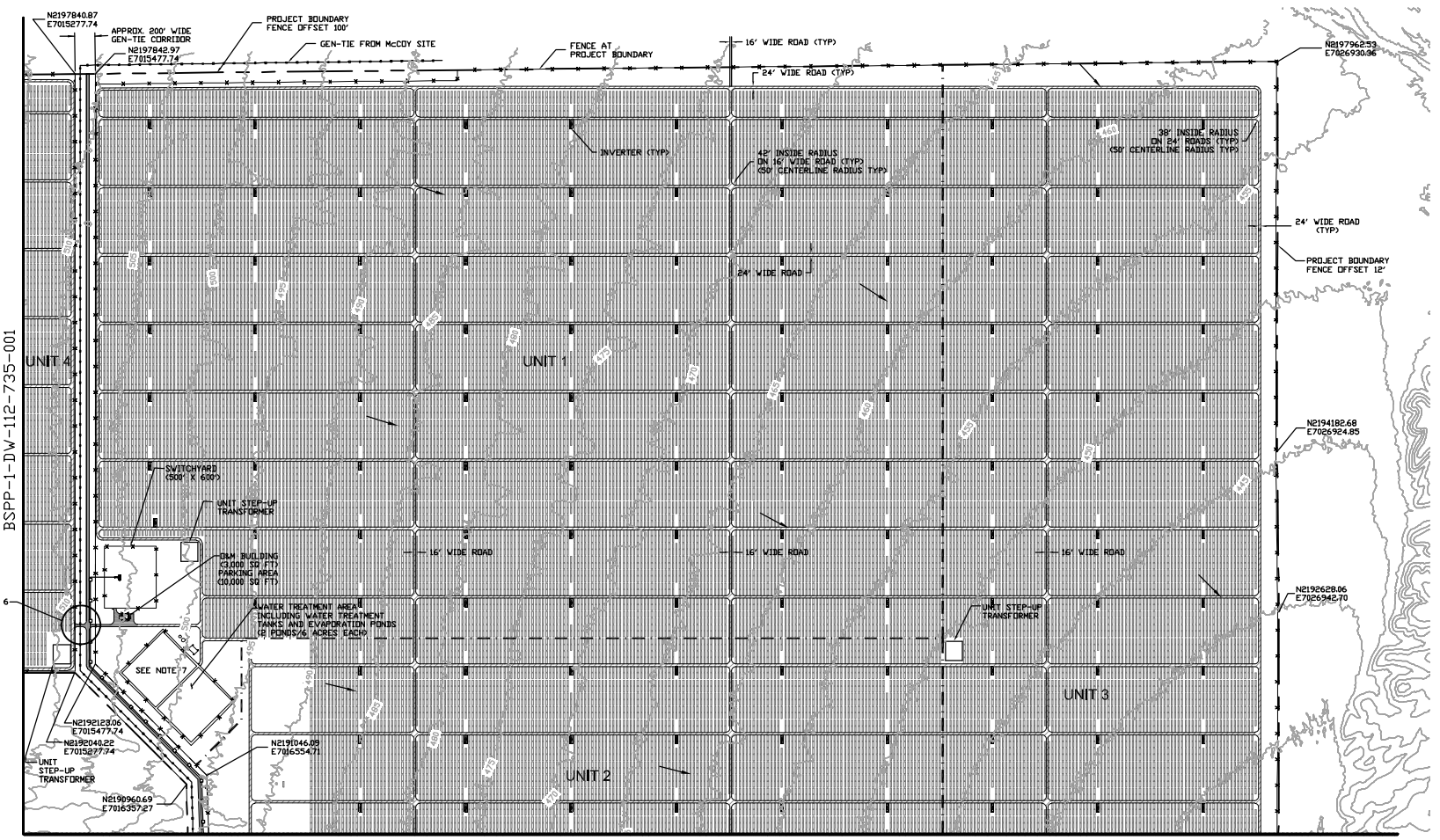
NOT FOR CONSTRUCTION FOR PERMITTING ONLY

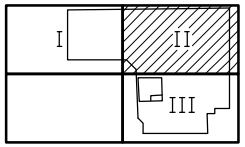
500 0 500 1,000 1,500
SCALE: 1" = 500'

05_BSPP-1-DW-112-735-001.GRD Layo
27-Feb-2013 - 10:0

LEGEND:

- EASEMENT
- EXISTING CONTOUR MAJOR
- PROJECT BOUNDARY
- DRAINAGE FLOW DIRECTION
- PROPOSED FENCE
- UNIT BOUNDARY
- 230 KV DOUBLE CIRCUIT (BLYTHE GEN-TIE)
- 230 KV DOUBLE CIRCUIT (McCOY GEN-TIE)
- INVERTER AND TRANSFORMER PADS
- PROPOSED SINGLE AXIS TRACKER WITH PANELS
- PROPOSED GRAVEL ROAD
- PROPOSED PAVED ROAD





KEY MAP

NOTES:

1. THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR DETAILED DESIGN.
2. PERIMETER ROADS, INVERTER ACCESS ROADS, AND NORTH-SOUTH MAINTENANCE ROADS ARE 24 FT WIDE (TYPICAL). ALL OTHER MAINTENANCE ROADS ARE 16 FT WIDE (TYPICAL). SEE SHEET BSPP-1-DW-112-735-004 FOR ROAD DETAILS.
3. AN 8 FT CHAIN LINK FENCE WITH THREE STRAND BARB WIRE IS PROPOSED WITHIN PROJECT BOUNDARY WITH SUFFICIENT ROOM FOR FENCE MAINTENANCE.
4. LOCATIONS OF ALL EXISTING AND PROPOSED ITEMS ARE APPROXIMATE AND WILL NEED TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
5. FOR BASIS OF BEARINGS, CONVERGENCE & FACTOR, AND DATUM STATEMENT, SEE NOTE ON SHEET BSPP-1-DW-112-101-001.
6. SEE SITE MAIN ACCESS DETAIL ON SHEET BSPP-1-DW-112-735-004.
7. SEE EVAPORATION POND GRADING DETAIL ON SHEET BSPP-1-DW-112-735-004.

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	ENGINEER/TECH SPECIALIST	PROJECT ENGINEER	PROJECT MANAGER
B	02/27/13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ
A	12/28/12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

PRELIMINARY STATUS — DATE — LDE: REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

APPROVED STATUS — DATE — LDE: REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

ORIGINATING PERSONNEL	PROFESSIONAL ENGINEER'S SEAL
DRAWN BY: A. PRATT	
CHECKED BY: J. BRAVO	
LEAD DESIGNER: A. PRATT	
ENGINEER/TECH SPECIALIST: J. BRAVO	
PROJECT ENGINEER: R. HILL	
PROJECT MANAGER: A. ZIMMERMAN	

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF PE: ____ STATE: ____ LIC. NO: ____ DATE: ____

Zero Harm — Leadership No Incidents Date Beha.vr

WorleyParsons resources & energy

CLIENT/PROJECT TITLE

NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

CONCEPTUAL ENGINEERING PLANS

NOT FOR CONSTRUCTION FOR PERMITTING ONLY

PRELIMINARY GRADING PLAN II

SCALE	DRAWING SIZE	SHEET NO.	REV
1" = 500'	ARCH D (36" x 24")	6	B

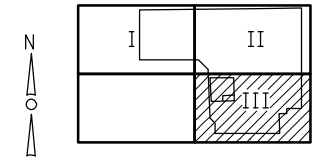
WORLEYPARSONS DWG NO.: BSPP-1-DW-112-735-002

500 0 500 1,000 1,500
SCALE: 1" = 500'

06_BSPP-1-DW-112-735-002.DGN 2-May-13 14:03

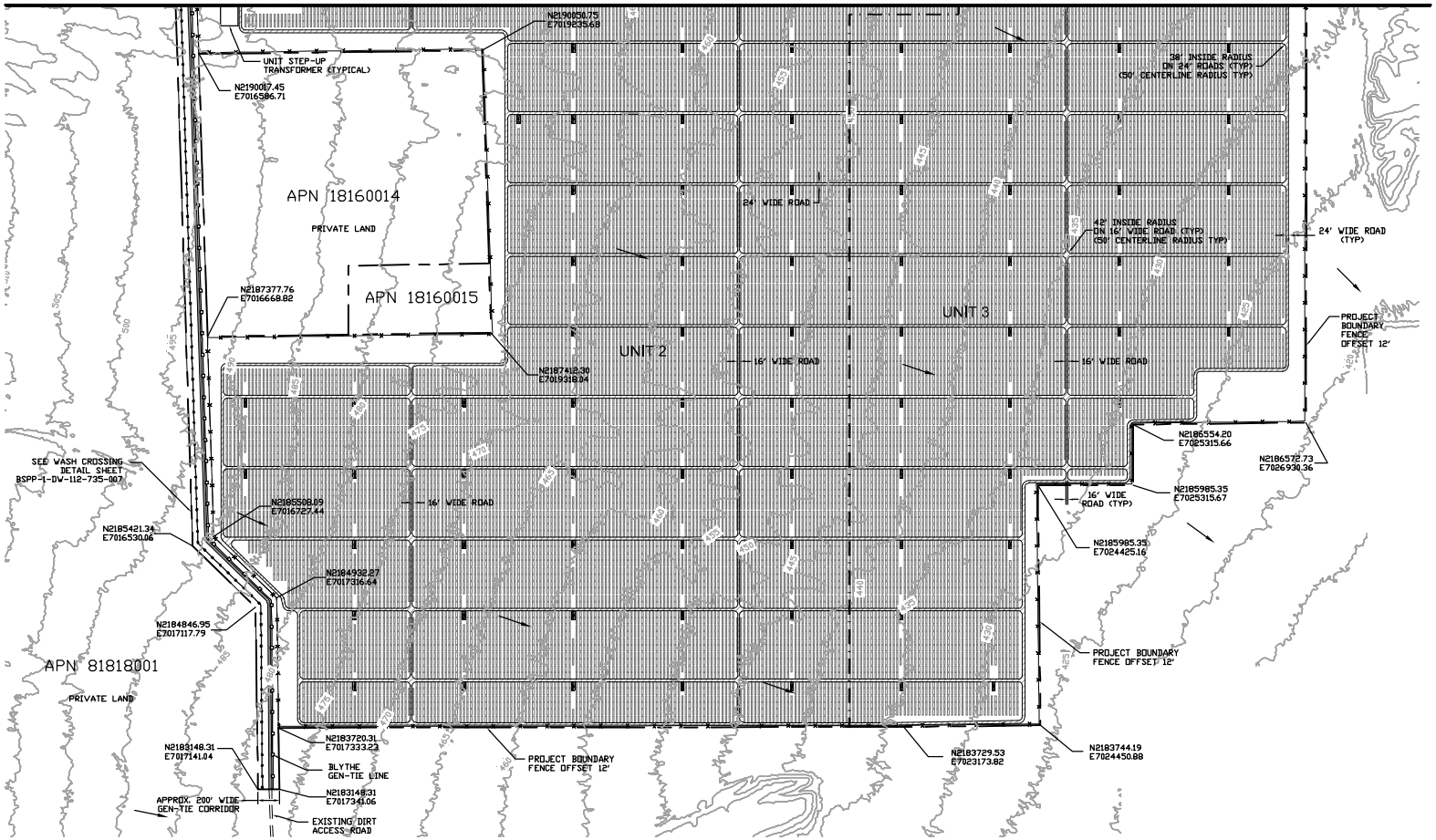
LEGEND:

EASEMENT	230 KV DOUBLE CIRCUIT (BLYTHE GEN-TIE)
EXISTING CONTOUR MAJOR	230 KV DOUBLE CIRCUIT (McCOY GEN-TIE)
PROJECT BOUNDARY	INVERTER AND TRANSFORMER PADS
DRAINAGE FLOW DIRECTION	PROPOSED SINGLE AXIS TRACKER WITH PANELS
PROPOSED FENCE	PROPOSED GRAVEL ROAD
UNIT BOUNDARY	PROPOSED PAVED ROAD



KEY MAP

MATCHLINE SEE SHEET
BSPP-1-DW-112-735-002



500 0 500 1,000 1,500
SCALE: 1" = 500'

NOTES:

1. THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR DETAILED DESIGN.
2. PERIMETER ROADS, INVERTER ACCESS ROADS, AND NORTH-SOUTH MAINTENANCE ROADS ARE 24 FT WIDE (TYPICAL). ALL OTHER MAINTENANCE ROADS ARE 16 FT WIDE (TYPICAL). SEE SHEET BSPP-1-DW-112-735-004 FOR ROAD DETAILS.
3. AN 8 FT CHAIN LINK FENCE WITH THREE STRAND BARB WIRE IS PROPOSED WITHIN PROJECT BOUNDARY WITH SUFFICIENT ROOM FOR FENCE MAINTENANCE.
4. LOCATIONS OF ALL EXISTING AND PROPOSED ITEMS ARE APPROXIMATE AND WILL NEED TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
5. FOR BASIS OF BEARINGS, CONVERGENCE & FACTOR, AND DATUM STATEMENT, SEE NOTE ON SHEET BSPP-1-DW-112-101-001.

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	ENGINEER/TECH SPEC	LEAD DISC ENGINEER	PROJ ENGR	PROJECT MANAGER
B	02 27 13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ
A	02 28 12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

PRELIMINARY STATUS — DATE — REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.
LDE

APPROVED STATUS — DATE — REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.
LDE

ORIGINATING PERSONNEL
DRAWN BY: A. PRATT
CHECKED BY: J. BRAVO
LEAD DESIGNER: A. PRATT
ENGINEER/TECH SPECIALIST: J. BRAVO
PROJECT ENGINEER: R. HILL
PROJECT MANAGER: A. ZIMMERMAN

PROFESSIONAL ENGINEER'S SEAL

Zero Harm — Leadership No Incidents Safe Behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
PE: ___ STATE: ___
LIC. NO: ___ DATE: ___

WorleyParsons resources & energy

CLIENT/PROJECT TITLE
NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

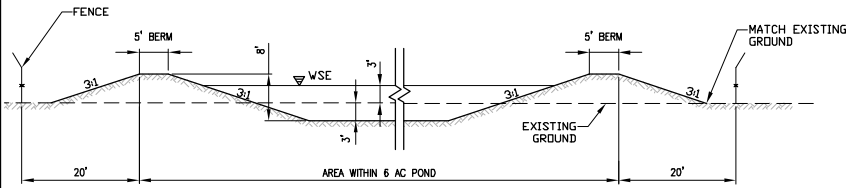
PRELIMINARY GRADING PLAN III

SCALE: 1" = 500'
DRAWING SIZE: ARCH D (36" x 24")
WORLEYPARSONS DWG NO.: BSPP-1-DW-112-735-003
SHEET NO.: 7
REV: B

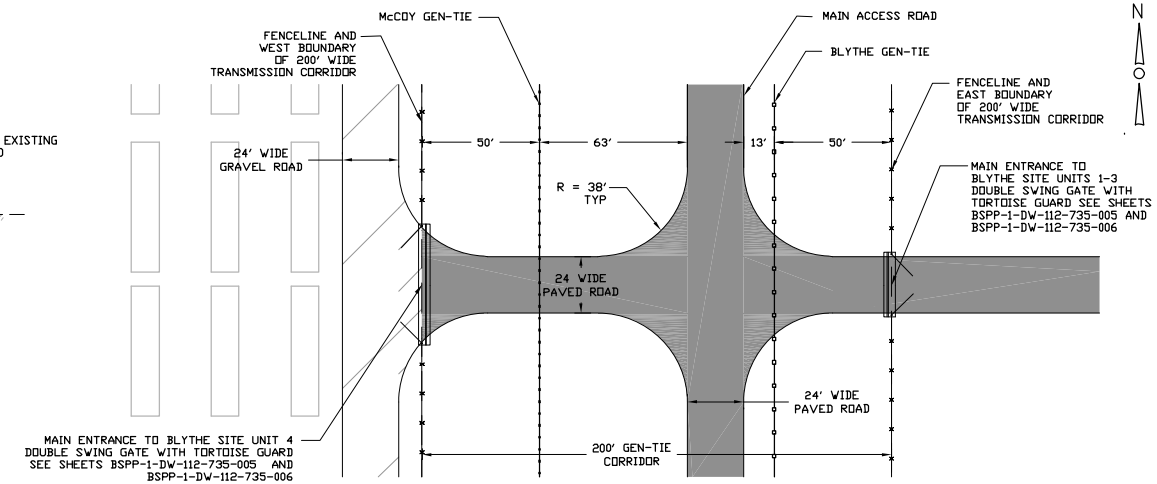
CONCEPTUAL ENGINEERING PLANS

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

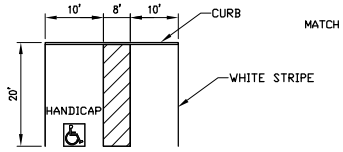
07_BSPP-1-DW-112-735-003_GRD 3.dwg
27-Feb-2013 - 14:47



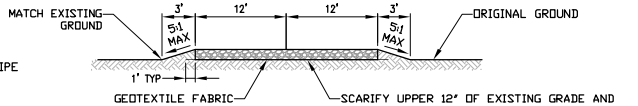
EVAPORATION POND GRADING DETAIL
NOT TO SCALE



SITE MAIN ACCESS DETAIL



PARKING SPACE DETAIL
NOT TO SCALE

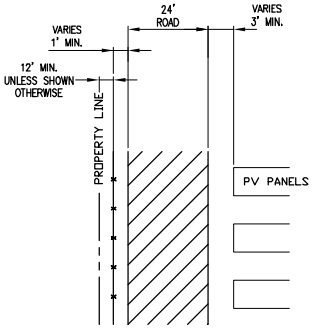


1. USED ON ALL PERIMETER ROADS AND CONSTRUCTION ACCESS ROADS.

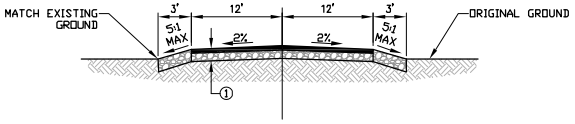
24' WIDE GRAVEL ROAD SECTION (TYPICAL)
NOT TO SCALE

NOTES:

1. SEE BSPP-1-DW-112-735-005 FOR FENCE DETAILS.
2. SEE BSPP-1-DW-112-735-006 FOR TORTOISE GUARD.
3. THIS DRAWING IS CONCEPTUAL AND IS NOT INTENDED FOR DETAILED DESIGN.



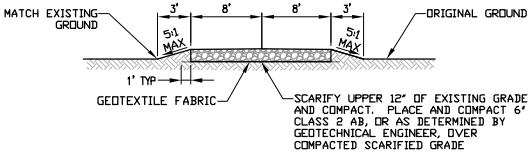
TYPICAL PROPERTY BOUNDARY DETAIL
NOT TO SCALE



① PAVEMENT SECTION 3" AC OVER 4" AB OR AS DETERMINED BY GEOTECHNICAL/PAVEMENT ENGINEER.

2. USED ON ROADS STARTING FROM THE ENTRANCE OF ENERGY PROJECT TO O&M BUILDING AND BOTH SUBSTATIONS.

PAVED ENTRANCE ACCESS ROAD SECTION TO BLYTHE SOLAR POWER PROJECT
NOT TO SCALE



1. USED ON ALL SERVICE ROADS WITHIN THE SOLAR PANEL FIELD.

16' WIDE GRAVEL ROAD SECTION (TYPICAL)
NOT TO SCALE

CONCEPTUAL
ENGINEERING PLANS

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	ENGINEER/TECH SPECIALIST	PROJECT ENGINEER	PROJECT MANAGER
B	02/27/13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ
A	02/08/13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

PRELIMINARY STATUS — DATE — LDE — REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

APPROVED STATUS — DATE — LDE — REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

ORIGINATING PERSONNEL

DRAWN BY: A. PRATT
CHECKED BY: J. BRAVO
LEAD DESIGNER: A. PRATT
ENGINEER/TECH SPECIALIST: J. BRAVO
PROJECT ENGINEER: R. HILL
PROJECT MANAGER: A. ZIMMERMAN

PROFESSIONAL ENGINEER'S SEAL

Zero Harm — Leadership No models Safe behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
PE ____ STATE ____
LIC. NO. ____ DATE ____

WorleyParsons resources & energy

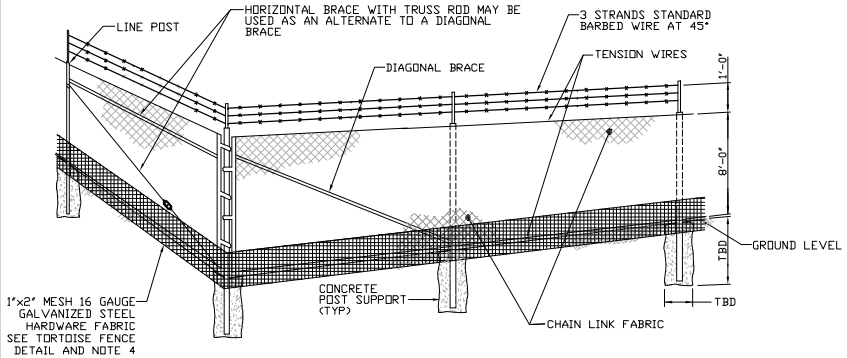
CLIENT/PROJECT TITLE

NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

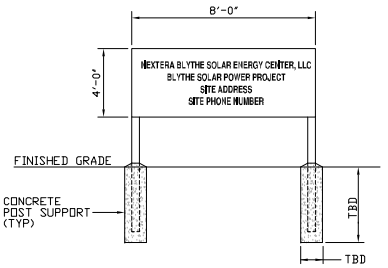
TYPICAL GRADING SECTIONS AND DETAILS

SCALE: 1" = 1000'
DRAWING SIZE: ARCH D (36" x 24")
WORLEYPARSONS DWG. NO.: BSPP-1-DW-112-735-004
SHEET NO.: 8
REV: B

DG_BSPP-1-DW-112-735-004.dwg
27-Feb-2013 14:22



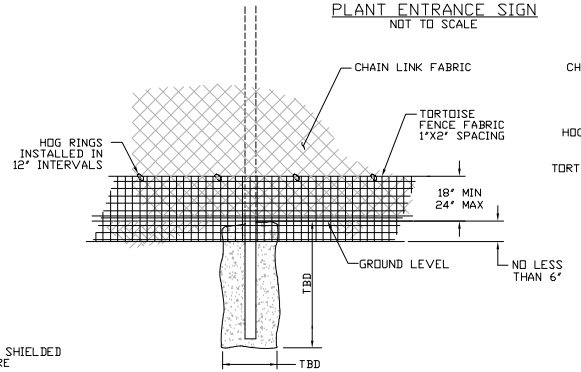
TYPICAL FENCE ELEVATION
NOT TO SCALE



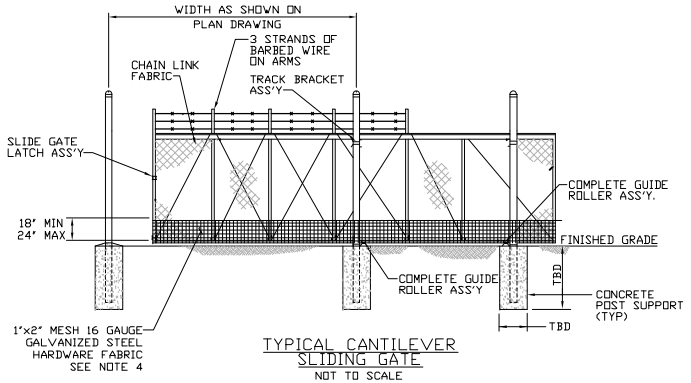
PLANT ENTRANCE SIGN
NOT TO SCALE

NOTES:

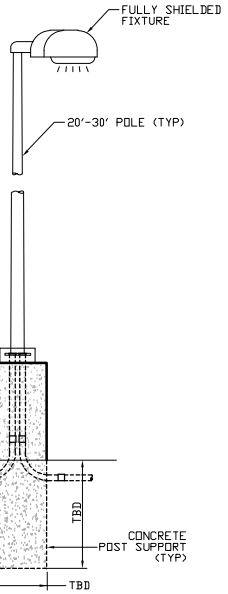
1. LIGHTING FIXTURES WILL BE DESIGNED AND INSTALLED PER THE RIVERSIDE COUNTY ZONING ORDINANCE.
2. LIGHTING FIXTURES WILL BE LOCATED IN AND NEAR EQUIPMENT MAINTENANCE AREAS, ABOVE DOORWAYS, AND WITHIN THE COMMON SERVICES AREA.
3. PLANT ENTRANCE SIGN LOCATED AT PLANT MAIN ACCESS GATE.
4. TORTOISE FENCE CLOTH TO BE ATTACHED TO CHAIN LINK FENCE FABRIC WITH HOG RINGS AT 12" MAXIMUM SPACING.
5. BACKFILL TRENCH WITH EXCAVATED MATERIAL AND COMPACT.
6. FENCING SETBACKS WILL BE DETERMINED DURING DETAILED DESIGN SO THAT ANY PONDING WILL BE WITHIN PROJECT BOUNDARY.
7. THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR DETAILED DESIGN.



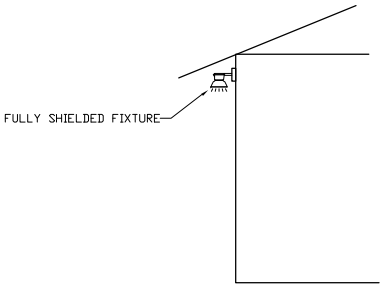
TORTOISE FENCE DETAIL
NOT TO SCALE



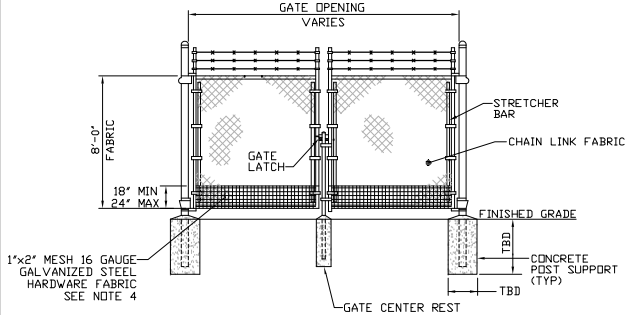
TYPICAL CANTILEVER SLIDING GATE
NOT TO SCALE



TYPICAL LIGHT POLE DETAIL
NOT TO SCALE



TYPICAL WALL MOUNT LIGHT DETAIL
NOT TO SCALE



TYPICAL DOUBLE SWING GATE
NOT TO SCALE

LEGEND:

TBD = TO BE DETERMINED
(TYP) = TYPICAL

CONCEPTUAL ENGINEERING PLANS

NOT FOR CONSTRUCTION FOR PERMITTING ONLY

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	TECH SPEC	ENGINEER	PROJECT ENGINEER	PROJECT MANAGER
B	02/27/13	ISSUED FOR PERMITTING	AP	AB	AP	JB	JB	RH	AZ
A	12/28/12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

PRELIMINARY STATUS — LDE — DATE — REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

APPROVED STATUS — LDE — DATE — REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

ORIGINATING PERSONNEL

DRAWN BY: A. PRATT
CHECKED BY: J. BRAVO
LEAD DESIGNER: A. PRATT
ENGINEER/TECH SPECIALIST: J. BRAVO
PROJECT ENGINEERING MANAGER: R. HILL
PROJECT MANAGER: A. ZIMMERMAN

PROFESSIONAL ENGINEER'S SEAL

Zero Harm — Leadership No models Safe Behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF: PE ____ STATE ____ LIC. NO. ____ DATE ____

WorleyParsons resources & energy

CLIENT/PROJECT TITLE

NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

FENCE AND LIGHT DETAILS

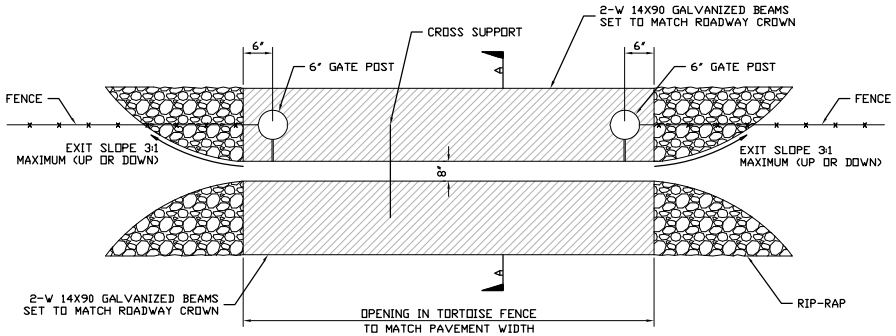
SCALE: 1" = 400' | DRAWING SIZE: ARCH D (36" x 24")

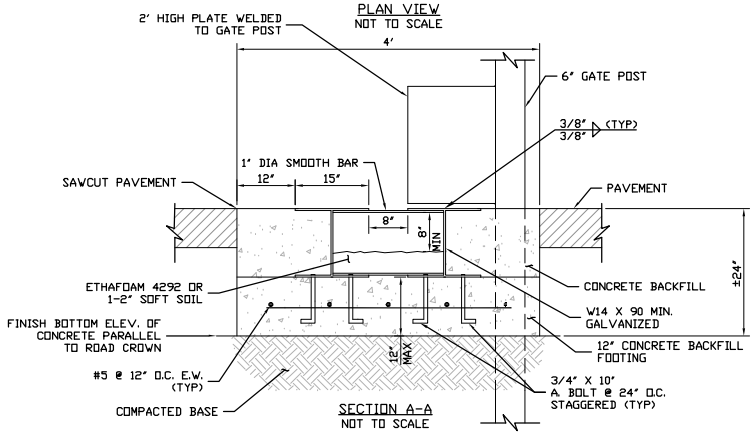
WORLEYPARSONS DWG. NO.: BSPP-1-DW-112-735-005 | SHEET NO.: 9 | REV: B

D9_BSPP-1-DW-112-735-005.dwg
27-Feb-2013 14:49

NOTES:

1. THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR DETAILED DESIGN.





TORTOISE GUARD

CONCEPTUAL
ENGINEERING PLANS

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	TECH SPEC	ENGINEER	PROJECT ENGINEER	PROJECT MANAGER
B	02/27/13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	JB	RH	AZ
A	12/18/12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	JB	RH	AZ

PRELIMINARY STATUS — DATE — LDE: REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

APPROVED STATUS — DATE — LDE: REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

ORIGINATING PERSONNEL

DRAWN BY: A. PRATT
CHECKED BY: J. BRAVO
LEAD DESIGNER: A. PRATT
ENGINEER/TECH SPECIALIST: J. BRAVO
PROJECT ENGINEERING MANAGER: R. HILL
PROJECT MANAGER: A. ZIMMERMAN

PROFESSIONAL ENGINEER'S SEAL

Zero Harm Leadership No models Be a Behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
PE: _____ STATE: _____
LIC. NO: _____ DATE: _____

WorleyParsons resources & energy

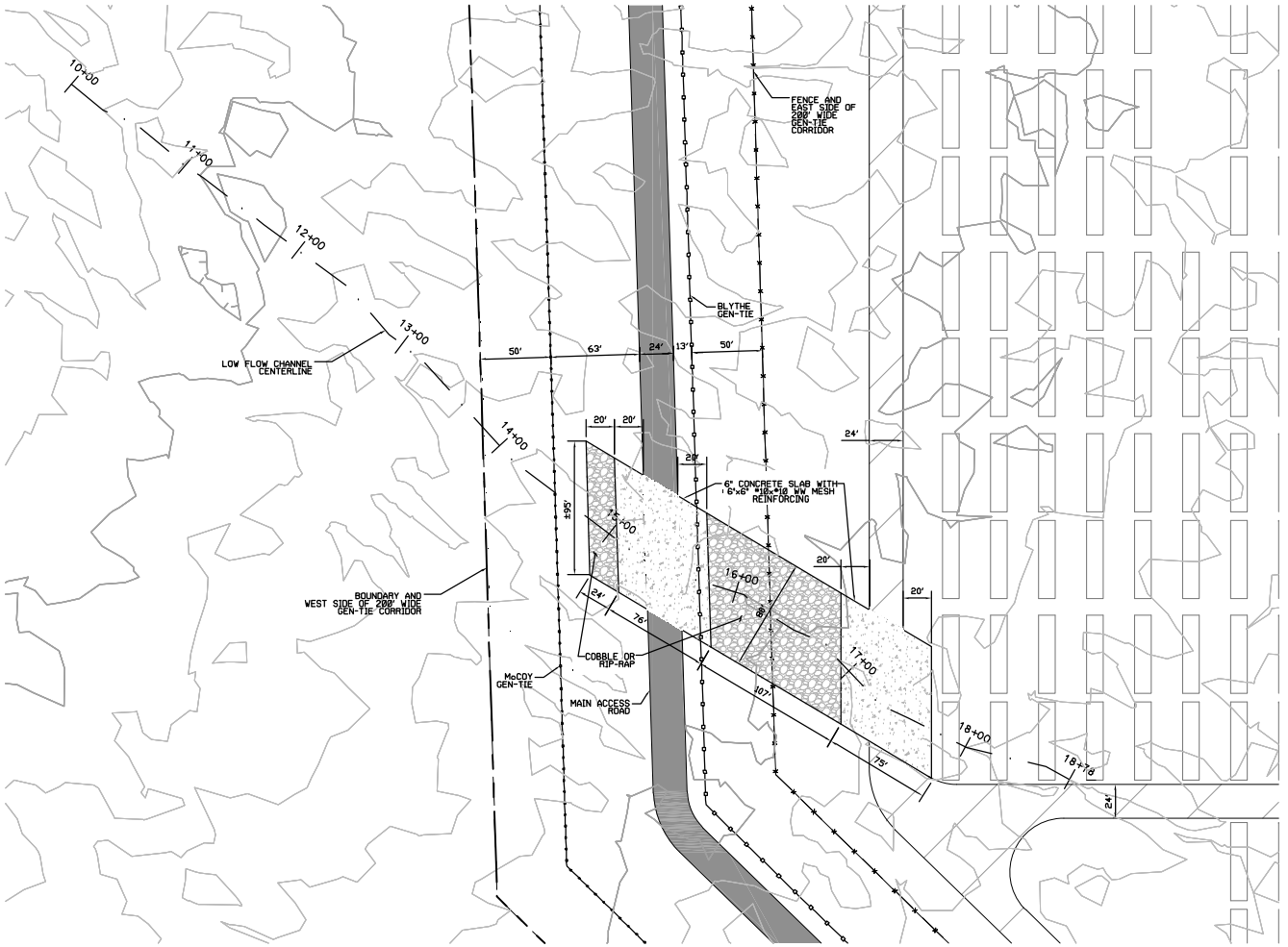
CLIENT/PROJECT TITLE

NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

TORTOISE GUARD DETAILS

SCALE: NONE
DRAWING SIZE: ARCH D (36" x 24")
WORLEYPARSONS DWG. NO.: BSPP-1-DW-112-735-006
SHEET NO.: 10
REV: B

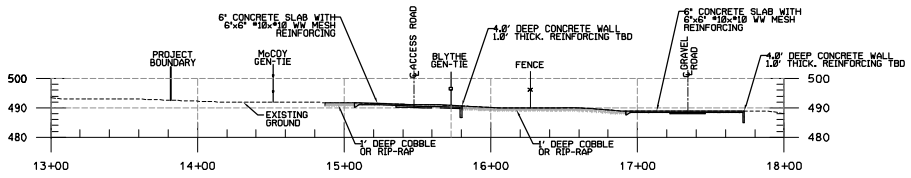
BSPP-1-DW-112-735-006.dwg
27-Feb-2013 - JOE



CHANNEL PLAN VIEW #1

40 0 40 80 120

SCALE: 1"=40'

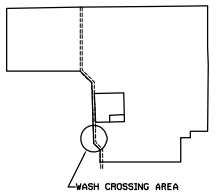


CHANNEL PROFILE #1

SCALE:
HORIZ: 1"=40'
VERT: 1"=20'

LEGEND:

- EXISTING GROUND
- BOUNDARY
- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR (500)
- TRANSMISSION CORRIDOR
- PROPOSED FENCE
- CENTERLINE OF LOW FLOW CHANNEL
- McCOY GEN-TIE
- BLYTHE GEN-TIE
- PROPOSED PAVED ROAD
- PROPOSED GRAVEL ROAD
- CONCRETE SLAB
- COBBLE OR RIP-RAP
- PROPOSED SINGLE AXIS TRACKER WITH PANELS



KEY MAP

CONCEPTUAL ENGINEERING PLANS

NOT FOR CONSTRUCTION FOR PERMITTING ONLY

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	TECH SPEC	PROJECT ENGINEER	PROJECT MANAGER
B	08/27/21	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ
A	12/29/20	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

PRELIMINARY STATUS — DATE — LDE: REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

APPROVED STATUS — DATE — LDE: REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.

ORIGINATING PERSONNEL	PROFESSIONAL ENGINEER'S SEAL
DRAWN BY: A. PRATT	
CHECKED BY: J. BRAVO	
LEAD DESIGNER: A. PRATT	
ENGINEER/TECH SPECIALIST: J. BRAVO	
PROJECT ENGINEERING MANAGER: R. HILL	
PROJECT MANAGER: A. ZIMMERMAN	

Zero Harm Leadership No models Ba's Behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF PE: ____ STATE: ____ LIC. NO: ____ DATE: ____

WorleyParsons resources & energy

CLIENT/PROJECT TITLE

NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

WASH CROSSING DETAILS

SCALE	DRAWING SIZE	SHEET NO.	REV
AS NOTED	ARCH D (36" x 24")	11	B

WORLEYPARSONS DWG. NO.: BSPP-1-DW-112-735-007

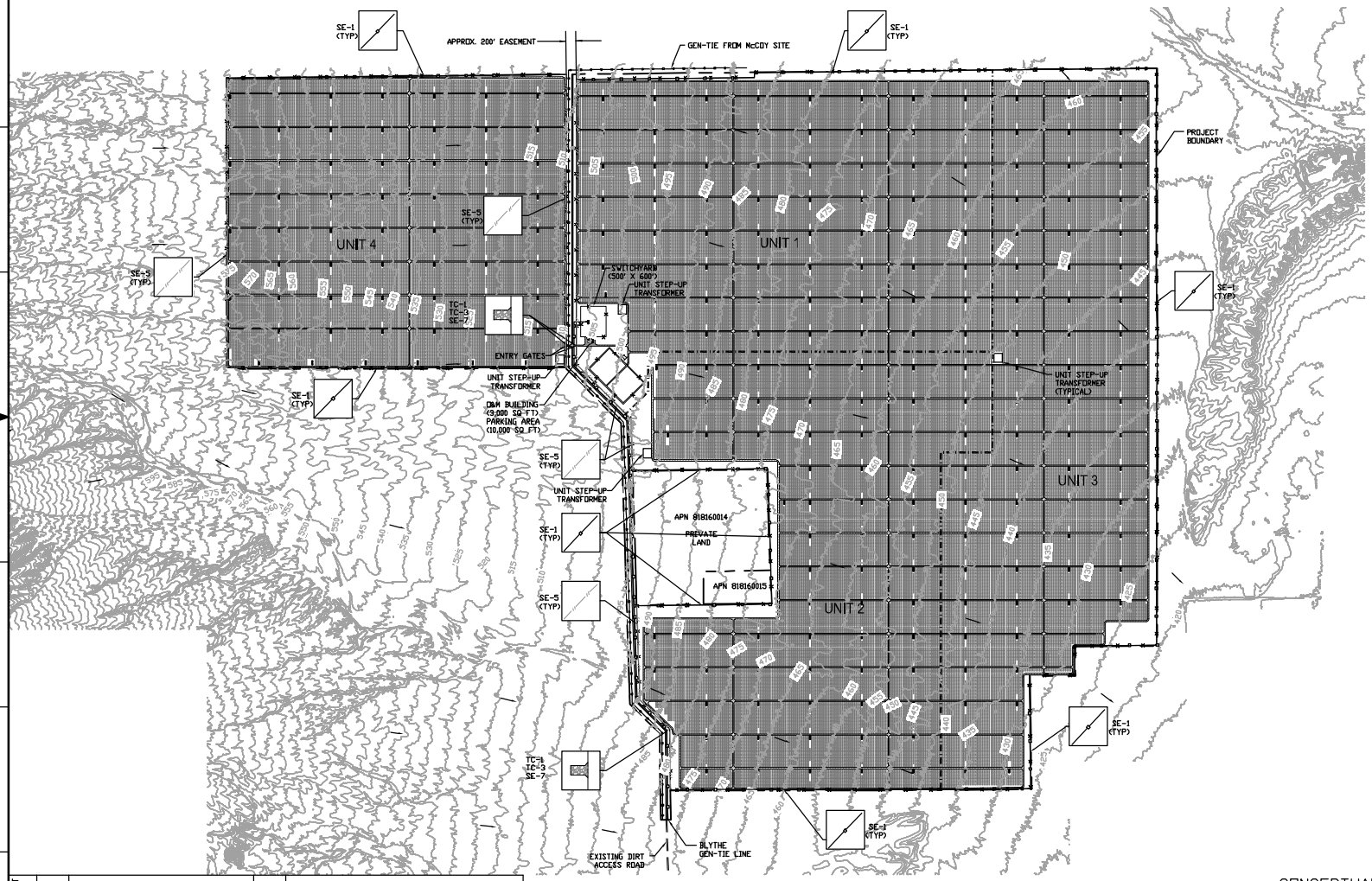
11_BSPP-1-DW-112-735-007.dwg
27-Aug-2021 10:03

LEGEND:

- EASEMENT
- 230 KV DOUBLE CIRCUIT (BLYTHE GEN-TIE)
- PROPOSED FENCE
- PROJECT BOUNDARY
- 500 EXISTING CONTOUR
- DRAINAGE FLOW DIRECTION
- 230 KV DOUBLE CIRCUIT (McCOY GEN-TIE)
- INVERTER AND TRANSFORMER PADS
- PROPOSED SINGLE AXIS TRACKER WITH PANELS
- PROPOSED GRAVEL ROAD
- PROPOSED PAVED ROAD
- UNIT BOUNDARY

NOTES:

1. THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR DETAILED DESIGN.
2. SEE SHEET BSPP-1-DW-112-717-002 FOR NOTES.



1,000 0 1,000 2,000 3,000

SCALE: 1" = 1,000'

CASQA BEST MANAGEMENT PRACTICES MANUAL (BMP) LEGEND

TITLE	STD SYMB	DESCRIPTION	TITLE	STD SYMB	DESCRIPTION
SE-1		SILT FENCE	TC-1 TC-3 SE-7		STABILIZED CONSTRUCTION ENTRANCE/EXIT ENTRANCE/OUTLET TIRE WASH STREET SWEEPING AND VACUUMING
SE-5		FIBER ROLL	TC-2		STABILIZED CONSTRUCTION ROADWAY

CONCEPTUAL ENGINEERING PLANS

NOT FOR CONSTRUCTION FOR PERMITTING ONLY

REV	DATE	DESCRIPTION	DRAWN	CHECKED	LEAD DESIGNER	ENGINEER/TECH SPEC	LEAD DISC ENGINEER	PROJ ENGR MANAGER	PROJECT MANAGER
B	02 27 13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ
A	02 28 12	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	RH	AZ

PRELIMINARY STATUS — DATE — REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

L.DE

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L.DE

ORIGINATING PERSONNEL

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PROJECT ENGINEERING MANAGER: R. HILL
PROJECT MANAGER: A. ZIMMERMAN

PROFESSIONAL ENGINEER'S SEAL

Zero Harm — Leadership No Incidents Safe Behavior

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
PE: ___ STATE: ___
LIC. NO: ___ DATE: ___

WorleyParsons resources & energy

CLIENT/PROJECT TITLE

NEXTERA BLYTHE SOLAR ENERGY CENTER, LLC
BLYTHE SOLAR POWER PROJECT BSPP
RIVERSIDE COUNTY, CA

EROSION CONTROL PLAN

SCALE: 1" = 1000'
DRAWING SIZE: ARCH D (36" x 24")
WORLEYPARSONS DWG NO.: BSPP-1-DW-112-717-001
SHEET NO.: 12
REV: B

12_BSPP-1-DW-112-717-001_ERO 1.dwg
27-Feb-2013 - 13:20

BEST MANAGEMENT PRACTICES AND STORMWATER POLLUTION NOTES:

1. ALL WORK SHALL APPLY THE "BEST MANAGEMENT PRACTICES" (BMPS) FOR THE CONSTRUCTION INDUSTRY. IN ADDITION, THE CONTRACTOR IS REQUIRED TO BE FAMILIAR WITH, AND IMPLEMENT ALL STORMWATER QUALITY AND POLLUTION CONTROL MEASURES IN ACCORDANCE WITH THE LATEST CODE.

2. THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS AND PROCEDURES OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR MUNICIPAL CONSTRUCTION AND INDUSTRIAL ACTIVITIES AS PROMULGATED BY THE CALIFORNIA STATE WATER RESOURCE CONTROL BOARD OR ANY OF ITS REGIONAL WATER QUALITY CONTROL BOARDS.

3. THE CONTRACTOR SHALL COMPLETE ALL WORK IN ACCORDANCE WITH THE CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOKS LATEST EDITION AND THE STORMWATER POLLUTION PREVENTION PLAN PREPARED FOR THIS PROJECT TITLED "STORMWATER POLLUTION PREVENTION PLAN".

4. THE CONTRACTOR AND SUBCONTRACTORS OF EVERY TIER ARE REQUIRED TO CAREFULLY REVIEW AND UNDERSTAND THE SWPPP AND BMP REQUIREMENTS FOR THIS PROJECT.

5. ALL CONTRACTORS AND SUBCONTRACTORS SHALL ATTEND AN ENVIRONMENTAL TRAINING PROGRAM OFFERED BY THE PROJECT PROPONENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND BMPS SHALL BE IMPLEMENTED UNDER THE DIRECTION OF A QUALIFIED SWPPP DEVELOPER (QSD).

6. AFTER COMPLETION OF THE PROJECT, ALL SURPLUS OR WASTE EARTHEN MATERIAL SHALL BE REMOVED FROM THE SITE AND DEPOSITED IN A LEGAL POINT OF DISPOSAL.

7. EROSION CONTROL SHOWN ON THESE PLANS IS INTENDED AS A GUIDE. ADDITIONAL EROSION CONTROL MEASURES, OR BMPS, MAY BE REQUIRED, AS DETERMINED IN THE FIELD BY THE QSD.

8. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION OF THE PROJECT AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS.

9. IN THE EVENT THAT ONE OR MORE ADDITIONAL BMPS ARE REQUIRED, SUCH BMPS SHALL BE INSTALLED UNDER THE DIRECTION OF THE QSD.

10. GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS. STORE ALL CONSTRUCTION MATERIALS AND WASTE IN A COVERED AREA, OR UNDER A TARP. SWEEP WHERE POSSIBLE, DO NOT USE WATER TO WASH DOWN AREAS DRAINING TO STORM DRAINS. USE PROPER EQUIPMENT CLEANING, FUELING, AND MAINTENANCE PRACTICES.

11. MINIMIZE CONSTRUCTION ACCESS POINTS TO THE SITE. PROVIDE A CONSTRUCTION ENTRANCE AT EACH ACCESS POINT. REMOVE ALL SILT, GRAVEL, RUBBISH, AND GREEN WASTE FROM THE STREET ADJOINING THE SITE PRIOR TO OCTOBER 1ST. PROVIDE REGULAR MAINTENANCE, WEEKLY OR AFTER STORM EVENTS, TO KEEP ACCESS POINTS CLEAN AND FREE OF DEBRIS, DURING WET WEATHER AVOID DRIVING OFF PAVED AREAS AND TRACKING MUD AND SILT ONTO PAVED AREAS.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING SITE EROSION CONTROL AT ALL TIMES.

13. PROTECT ADJACENT PROPERTIES FROM ALL STORM WATER OR SILT RUNOFF GENERATED BY ON-SITE CONSTRUCTION ACTIVITIES. INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF ONTO PUBLIC ROADWAYS.

14. TEMPORARY SILT FENCE AND DRAINAGE CONTROL FACILITIES SHALL BE INSTALLED TO CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND TO PROVIDE FOR THE SAFE DISCHARGE OF STORM WATERS INTO EXISTING STORM WATER FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED BY THE COUNTY ENGINEER AND IN PLACE PRIOR TO THE START OF GRADING.

15. MINIMIZE REMOVAL OF ANY VEGETATION. STABILIZE ALL CLEARED AND DE-VEGETATED AREAS PRIOR TO OCTOBER 1ST. STABILIZATION SHOULD INCLUDE TEMPORARY OR PERMANENT RE-SEEDING, MULCHING, PROTECTIVE BERMS, SILT FENCES, PLASTIC COVERINGS OR ROCKING OF ROADS, AND SHOULD BE BASED ON A BAG EROSION CONTROL OR CALIFORNIA STORM WATER BMP HANDBOOK STANDARDS.

16. STABILIZE SWALES, GULLIES, CHANNELS, CULVERTS, FIELD INLETS, AND OUTFACES ON THE CONSTRUCTION SITE TO PREVENT EROSION.

17. USE SEDIMENT CONTROLS TO REDUCE SEDIMENTATION FROM DEWATERING EFFLUENT. CONTROL THE USE AND PREVENT DISCHARGE TO STORM DRAINS OF ALL POTENTIAL POLLUTANTS. FOR EXAMPLE, PESTICIDES, PETROLEUM PRODUCTS, NUTRIENTS (PLANT WASTES), SOLID WASTES, AND CONSTRUCTION DISCHARGES FROM DEWATERING ACTIVITIES, STREET WASHING, AND PAVEMENT SAW CUTTING.

18. BETWEEN OCTOBER 15TH AND APRIL 15TH, EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES. HAY BALES, FILTER BERMS, SILT FENCES OR OTHER MEANS SHALL BE EMPLOYED TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING ANY WATER COURSE.

19. THE CONTRACTOR SHALL DESIGNATE ONE AREA (OR AREAS) OF THE CONSTRUCTION SITE WELL AWAY FROM ANY STREAMS, WETLAND RESTORATION AREA OR STORM BASIN INLETS FOR EQUIPMENT PARKING AND ROUTINE EQUIPMENT AND VEHICLE MAINTENANCE,

20. ALL VEHICLES AND HEAVY EQUIPMENT SHALL BE INSPECTED FREQUENTLY FOR LEAKS, CLEAN UP SPILLED MATERIALS IMMEDIATELY, NOT WASHING THEM OR BURYING THEM.

21. CLEAN UP LIQUID SPILLS ON PAVED AND IMPERVIOUS SURFACES USING "DRY" CLEAN UP METHODS. (I. E. ABSORBENT MATERIALS, RAGS)

22. CLEAN UP SPILLS ON DIRT AREAS BY REMOVING AND PROPERLY DISPOSING OF CONTAMINATED SOIL.

23. REPORT SIGNIFICANT SPILLS TO THE APPROPRIATE SPILL RESPONSE AGENCY AND OWNER. SEE THE STORM WATER POLLUTION PLAN PREPARED FOR THE PROJECT.

24. THE CONTRACTOR SHALL KEEP CONTAMINANTS FROM FRESH CONCRETE AND ASPHALT OUT OF STORM DRAINS AND STREAMS AND WETLAND AREAS BY SCHEDULING PAVING JOBS AFTER PERIODS OF DRY WEATHER, ALLOWING NEW PAVEMENT TO CURE BEFORE STORM WATER FLOWS ACROSS IT.

25. IF PAVING AND STORM DRAIN IMPROVEMENT ARE NOT COMPLETED BY OCTOBER 1ST TEMPORARY SILT AND DRAINAGE CONTROL FACILITIES SHALL BE INSTALLED TO CONTROL AND CONTAIN EROSION CAUSED SILT DEPOSITS AND TO PROVIDE FOR THE SAFE DISCHARGE OF STORM WATERS INTO EXISTING STORM WATER FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED BY THE COUNTY.

26. ALL BMP DOCUMENTS APPROVED FOR THIS PROJECT SHALL BE KEPT ON FILE AT THE JOB SITE.

FOR BEST MANAGEMENT PRACTICES (BMP) FACT SHEETS REFER TO THE CALIFORNIA STORMWATER BMP HANDBOOK CONSTRUCTION, NOVEMBER 2009

CONCEPTUAL ENGINEERING PLANS

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A	08-09-13	ISSUED FOR PERMITTING	AP	JB	AP	JB	JB	JB	RH	AZ

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RIVERSIDE COUNTY, CA

EROSION CONTROL NOTES

SCALE	DRAWING SIZE	SHEET NO.	REV
N/A	ARCH D (36" x 24")		
WORLEYPARSONS DWG. NO.			
BSPP-1-DW-112-717-002		13	B

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27-Aug-2013 15:03