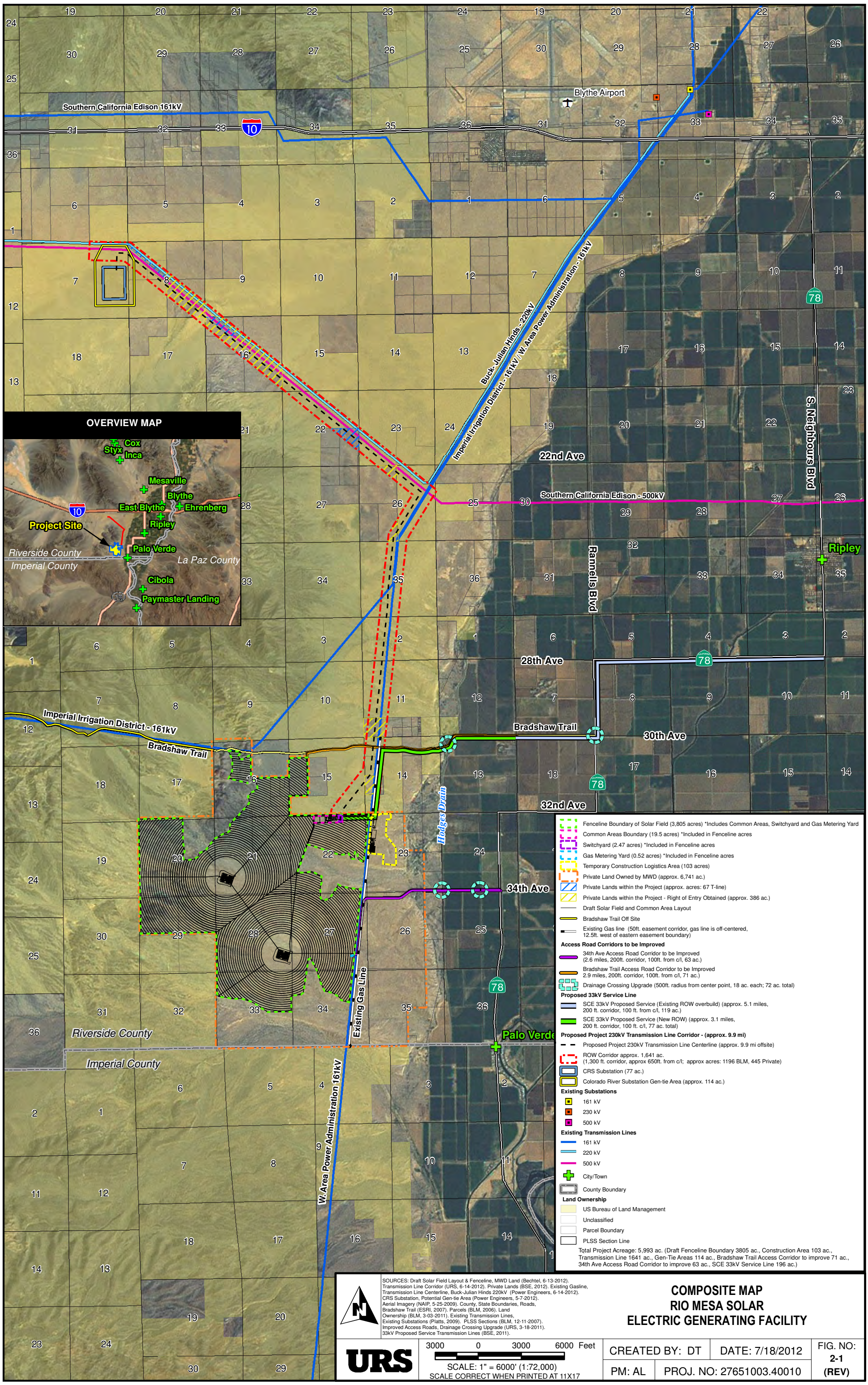
DOCKETED	
Docket Number:	11-AFC-04
Project Title:	Rio Mesa Solar Electric
TN #:	233545-2
Document Title:	Figures, Part 2 Applicant's Supplemental Response to Data Request 16 and 26 Additional Information Regarding Project Description
Description:	Part 2
Filer:	Marichka Haws
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	6/19/2020 2:40:13 PM
Docketed Date:	6/19/2020



SOURCES: Draft Solar Field Layout & Fenceline, MWD Land (Bechtel, 6-13-2012). Transmission Line Corridor (URS, 6-14-2012). Private Lands (BSE, 2012). Existing Gasline, Transmission Line Centerline, Buck-Julian Hinds 220kV (Power Engineers, 6-14-2012). CRS Substation, Potential Gen-tie Area (Power Engineers, 5-7-2012). Aerial Imagery (NAIP, 5-25-2009). County, State Boundaries, Roads, Bradshaw Trail (ESRI, 2007). Parcels (BLM, 2006). Land Ownership (BLM, 3-03-2011). Existing Transmission Lines, Existing Substations (Platts, 2009). PLSS Sections (BLM, 12-11-2007). Improved Access Roads, Drainage Crossing Upgrade (URS, 3-18-2011). 33kV Proposed Service Transmission Lines (BSE, 2011).

COMPOSITE MAP
RIO MESA SOLAR
ELECTRIC GENERATING FACILITY

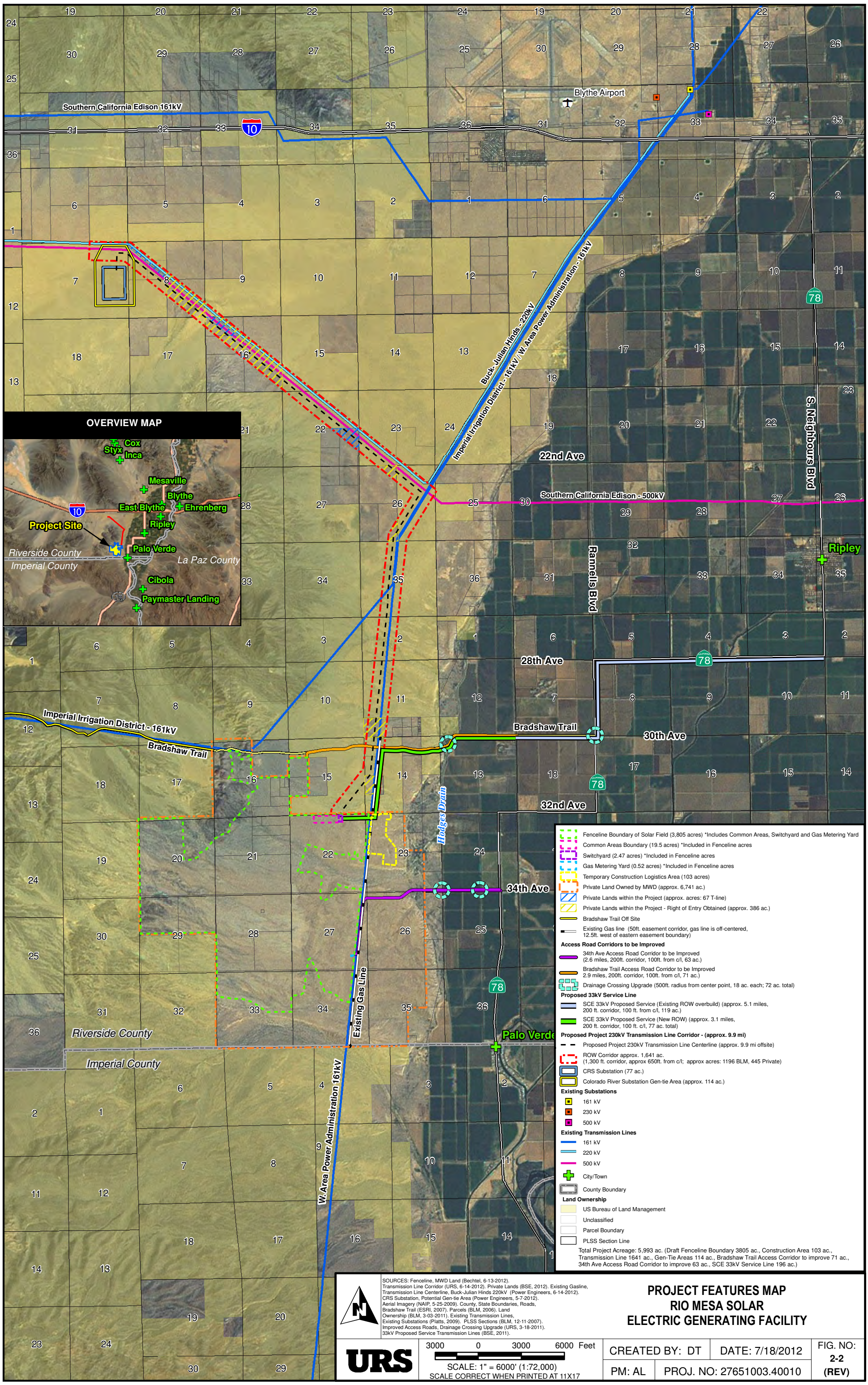
URS

3000 0 3000 6000 Feet

SCALE: 1" = 6000' (1:72,000)
SCALE CORRECT WHEN PRINTED AT 11X17

CREATED BY: DT	DATE: 7/18/2012	FIG. NO: 2-1 (REV)
PM: AL	PROJ. NO: 27651003.40010	

Path: \\S082-GIS-01\gis\gis\projects\1577\27651002\map_docs\mxd\Project_Features_NO_NORTH_TOWER\RMS_Composite_Map.mxd, david_Trzeciak, 7/18/2012, 11:32:56 AM



SOURCES: Fenceline, MWD Land (Bechtel, 6-13-2012). Transmission Line Corridor (URS, 6-14-2012). Private Lands (BSE, 2012). Existing Gasline, Transmission Line Centerline, Buck-Julian Hinds 220kV (Power Engineers, 6-14-2012). CRS Substation, Potential Gen-tie Area (Power Engineers, 5-7-2012). Aerial Imagery (NAIP, 5-25-2009). County, State Boundaries, Roads, Bradshaw Trail (ESRI, 2007). Parcels (BLM, 2006). Land Ownership (BLM, 3-03-2011). Existing Transmission Lines, Existing Substations (Platts, 2009). PLSS Sections (BLM, 12-11-2007). Improved Access Roads, Drainage Crossing Upgrade (URS, 3-18-2011). 33kV Proposed Service Transmission Lines (BSE, 2011).

PROJECT FEATURES MAP
RIO MESA SOLAR
ELECTRIC GENERATING FACILITY

URS

3000 0 3000 6000 Feet

SCALE: 1" = 6000' (1:72,000)
SCALE CORRECT WHEN PRINTED AT 11X17

CREATED BY: DT	DATE: 7/18/2012	FIG. NO: 2-2 (REV)
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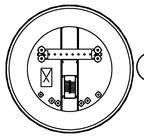
NOTES:

1. POWER BLOCK ARRANGEMENT FOR RIO MESA I AND II TO BE IDENTICAL WITH THE EXCEPTION OF PLANT ENTRANCE AND RADIAL DIRT ROAD LOCATIONS. SEE APROPRIATE CIVIL DRAWINGS.

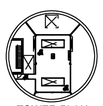


SOLAR RECEIVER STEAM GENERATOR PARAPET LEVEL AND BELOW PLAN VIEW

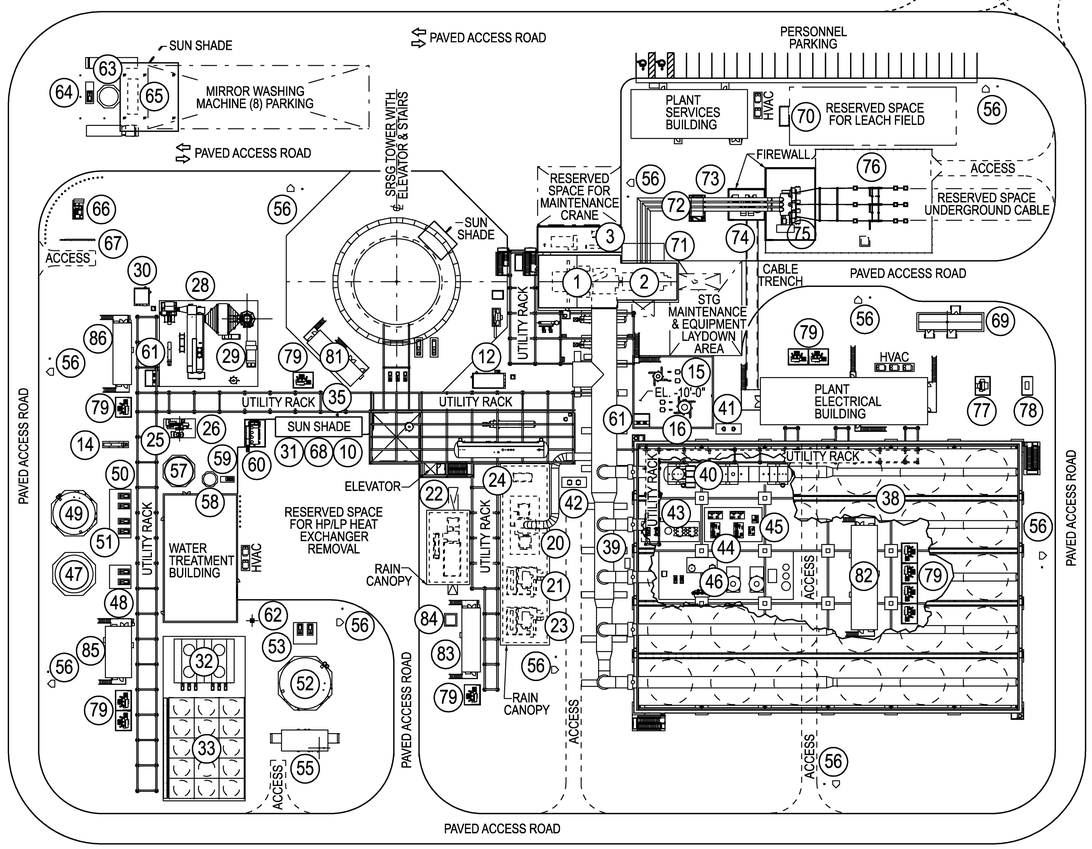
TOWER PLAN EL. 612'-0" ABL AND ABOVE

FLASH TANK & CHEMICAL CLEANING LEVEL EL. 600'-0" ABL

BLOWDOWN TANK & ELECTRICAL MODULE LEVEL EL. 576'-0" ABL



TOWER PLAN BELOW EL. 576'-0" ABL

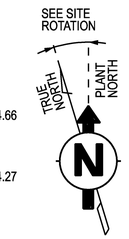


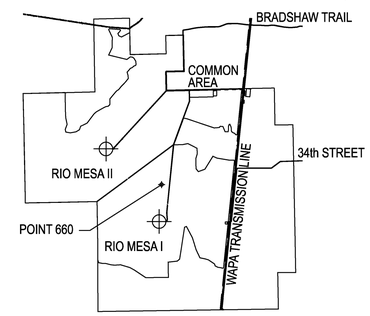
ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	STEAM TURBINE	31	NPB & AUX BOILER CHEMICAL FEED EQUIPMENT
2	GENERATOR	32	WET SURFACE AIR COOLER (WSAC)
3	LUBE OIL UNIT	33	DRY FIN-FAN COOLERS
4	GLAND STEAM CONDENSER	34	CLOSED COOLING WATER (CCW) PUMPS (2)
5	SOLAR RECEIVER STEAM GENERATOR (SRSG)	35	CCW CHEMICAL ADDITION TANK
6	BOILER CIRCULATION PUMPS (4) (SRSG)	36	CCW BOOSTER PUMPS (2)
7	BCP COOLING EXPANSION TANK (SRSG)	37	CCW HEAD TANK
8	SRSG FLASH TANK (TOWER)	38	AIR COOLED CONDENSER (ACC)
9	SRSG BLOWDOWN TANK (TOWER)	39	ACC WASH WATER SYSTEM SKID
10	SRSG CHEMICAL FEED EQUIPMENT	40	CONDENSATE COLLECTION TANK
11	NITROGEN STORAGE	41	CONDENSATE PUMPS (2)
12	STEAM & WATER ANALYSIS SAMPLING SYSTEM (SWAS) - SRSG	42	STEAM DUCT DRAIN PUMPS (2)
13	BYPASS VALVE HYDRAULIC SKID	43	PLANT AIR EQUIPMENT
14	SRSG BLOWDOWN COOLER	44	CONDENSER VACUUM PUMPS WITH FIN-FAN COOLERS (2)
15	INTERNAL DRAIN TANK & PUMPS (2)	45	NIGHT TIME VACUUM PUMP WITH FIN-FAN COOLER
16	EXTERNAL DRAIN TANK & PUMPS (2)	46	CONDENSATE POLISHER EQUIPMENT
17	HP FEEDWATER HEATERS (3)	47	DEMINERALIZED WATER STORAGE TANK
18	LP FEEDWATER HEATERS (4)	48	DEMINERALIZED WATER TRANSFER PUMPS (2)
19	DEAERATOR	49	TREATED WATER STORAGE TANK
20	MAIN BOILER FEEDWATER PUMP (TURBINE DRIVEN) W/ BOOSTER PUMP	50	TREATED WATER TRANSFER PUMPS (2)
21	MAIN BOILER FEEDWATER PUMP L.O. PACKAGE	51	DEMINERALIZER FEED PUMPS (2)
22	BACKUP BOILER FEEDWATER PUMP (MOTOR DRIVEN) W/ BOOSTER PUMP	52	SERVICE / FIRE WATER STORAGE TANK
23	BACKUP BOILER FEEDWATER PUMP L.O. PACKAGE	53	SERVICE WATER TRANSFER PUMPS (2)
24	STARTUP BOILER FEEDWATER PUMP (MOTOR DRIVEN)	54	SERVICE WATER BOOSTER PUMP (1)
25	NIGHT PRESERVATION BOILER (NPB)	55	FIRE PUMPS MODULE (ELECTRIC, DIESEL & JOCKEY)
26	NIGHT PRESERVATION BOILER FEEDWATER PUMPS (2)	56	FIRE HYDRANT & HOSE HOUSE (10)
27	ELECTRIC SUPERHEATER	57	WASTEWATER COLLECTION TANK
28	AUXILIARY BOILER	58	WASTEWATER RESIDUE TANK
29	AUXILIARY BOILER FEEDWATER PUMPS (2)	59	WASTEWATER RESIDUE PUMP (1)
30	STEAM & WATER ANALYSIS SAMPLING SYSTEM (SWAS) - AUX BOILER	60	OILY WATER SEPARATOR
		61	SUMP PUMPS (8)
		62	WELL PUMP
		63	MIRROR WASH WATER STORAGE TANK
		64	MIRROR WASH WATER FILLING PUMP (1)
		65	DIESEL FUEL STORAGE TANK
		66	FUEL GAS SEPARATOR SKID
		67	FUEL GAS PIG RECEIVER (BY SUBCONTRACTOR)
		68	EMERGENCY EYEWASH & SHOWER
		69	EMERGENCY DIESEL GENERATOR
		70	SEWAGE SEPTIC TANK & LEACH FIELD
		71	EXCITATION CONTAINER
		72	ISOPHASE BUS DUCT
		73	GENERATOR CIRCUIT BREAKER
		74	UNIT AUXILIARY TRANSFORMER
		75	GENERATOR STEP-UP TRANSFORMER
		76	220KV PLANT SUB-STATION
		77	STATION SERVICE TRANSFORMER
		78	33kV BREAKER
		79	MCC OIL FILLED TRANSFORMER (11)
		80	ELECTRICAL EQUIPMENT MODULE FOR SRSG (TOWER)
		81	ELECTRICAL EQUIPMENT MODULE FOR SRSG
		82	ELECTRICAL EQUIPMENT MODULE FOR ACC
		83	ELECTRICAL EQUIPMENT MODULE FOR BFP
		84	LIQUID TO AIR REMOTE HEAT EXCHANGER (VFD)
		85	ELECTRICAL EQUIPMENT MODULE FOR FIN FAN / WSAC & WATER TREATMENT AREA
		86	ELECTRICAL EQUIPMENT MODULE FOR AUXILIARY BOILER

SITE LOCATION & ROTATION

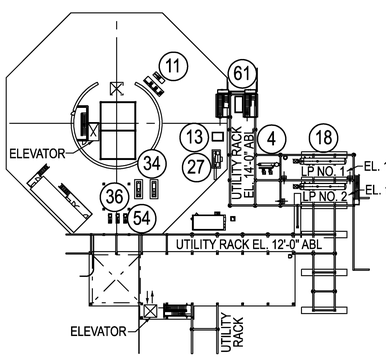
RIO MESA II
TOWER LOCATION: N. 72,612.47 E. 25,924.66
ROTATION: 19.0° CLOCKWISE
BASELINE ELEVATION: 384'-0"

RIO MESA I
TOWER LOCATION: N. 67,289.63 E. 29,824.27
ROTATION: 16.8° CLOCKWISE
BASELINE ELEVATION: 368'-0"

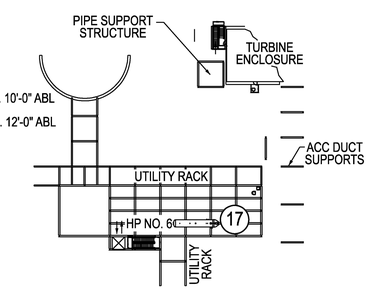




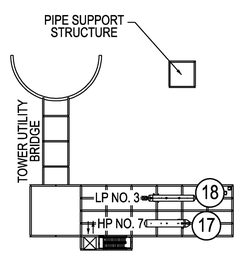
KEY PLAN



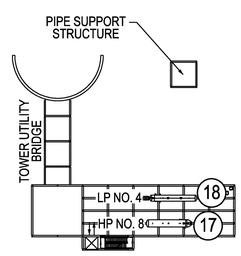
GROUND LEVEL EL. 0'-0" ABL TOWER FOUNDATION & BELOW HEATER BAY STRUCTURE



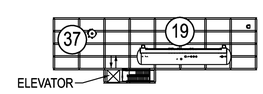
HP HEATER DECK LEVEL EL. 20'-0" ABL



HP / LP HEATER DECK LEVEL EL. 40'-0" ABL



HP / LP HEATER DECK LEVEL EL. 60'-0" ABL



DEAERATOR DECK LEVEL EL. 80'-0" ABL

0 60 120 180 240FT

NO.	DATE	REVISIONS	BY	CHK	EGS			PE
A	14JUN12	ISSUED FOR OWNER APPROVAL SUPERSEDES 25755-000-P1K-0010-00001	AKS	LEB	RPT	-	-	TWA

SCALE: AS SHOWN DRAWN: AKS DATE: 01FEB12

CBO/AHJ APPROVAL

BECHTEL POWER CORP.
FREDERICK, MARYLAND
Dedicated to Zero Accident Safety and Quality Excellence

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Figure 2-3 (REV)

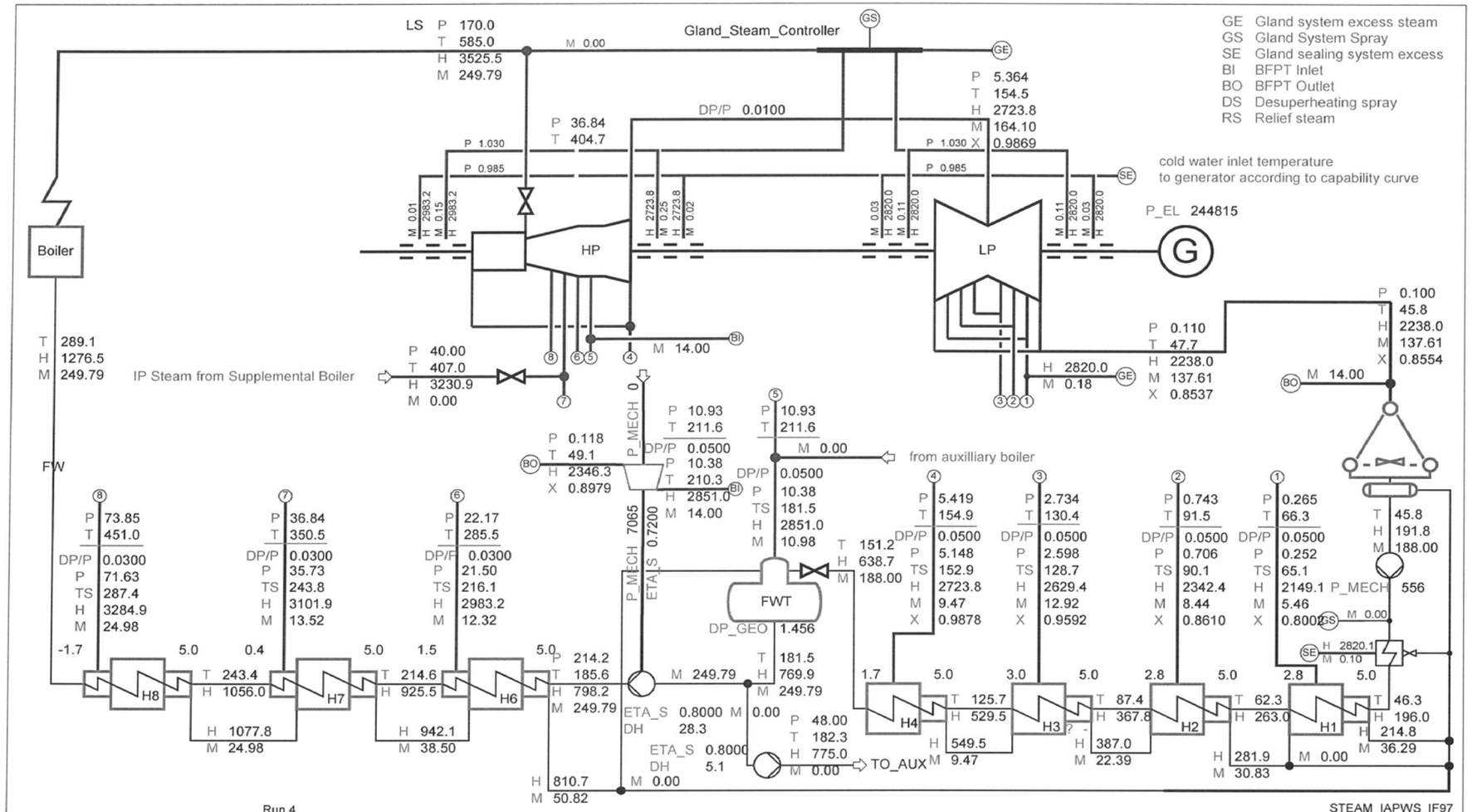
RIO MESA
SOLAR ELECTRIC GENERATING FACILITY

TYPICAL POWER BLOCK PLOT PLAN

JOB NO.	DRAWING NO.	REV.
25755	000-P1-0010-00001	A

PE STAMP

22"X34"D SIZE



Run 4
R:\PROJEKTE\Rio Mesa - 2012\2012-05-12-br-GMD6021995\HBD_STPPS_GMD6021995.algx

STEAM_IAPWS_IF97
ALPRO 4.4.2: (WinAlpro 2011-12-06)

P	Pressure	bar
T	Temperature	°C
H	Enthalpy	kJ/kg
M	Mass flow	kg/s
TS	Saturation temperature	°C
X	Mass fraction of vapor	-
P_MECH	Mechanical power	kW
P_EL	Electrical power	kW

HR = (LS_B."Q"-FW."Q"+ IP_AUX_STEAM."Q" + AUX_BOILER."Q" - TO_AUX."Q")/(GEN."P_EL") = 8261 [kJ/(kW*h)]
Q_Solar = 561.8 [MW]
Q_IP_Admission = 0.0 [MW]

Drawn: 2012-05-14
Revision:
Checked:
Approved:
Doc: Format: Lang: E Sheet: 1 No of Sh: 26

For information only!

ALSTOM

HEAT BALANCE DIAGRAM

STPPS
NCR 28°C

60Hz

p.f. = 0.9; Tcg = 40°C; TcCW = 35°C with 40% glycol content

Brandt
STSNE
2012-05-11/19:21
GMD6 021 995

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SOURCES: Bechtel Power, 2012

HEAT BALANCE DIAGRAM

URS

NOT TO SCALE

CREATED BY: PM	DATE: 07-3-12	FIG. NO: 2-4 (REV)
PM: AL	PROJ. NO: 27651006.30000	

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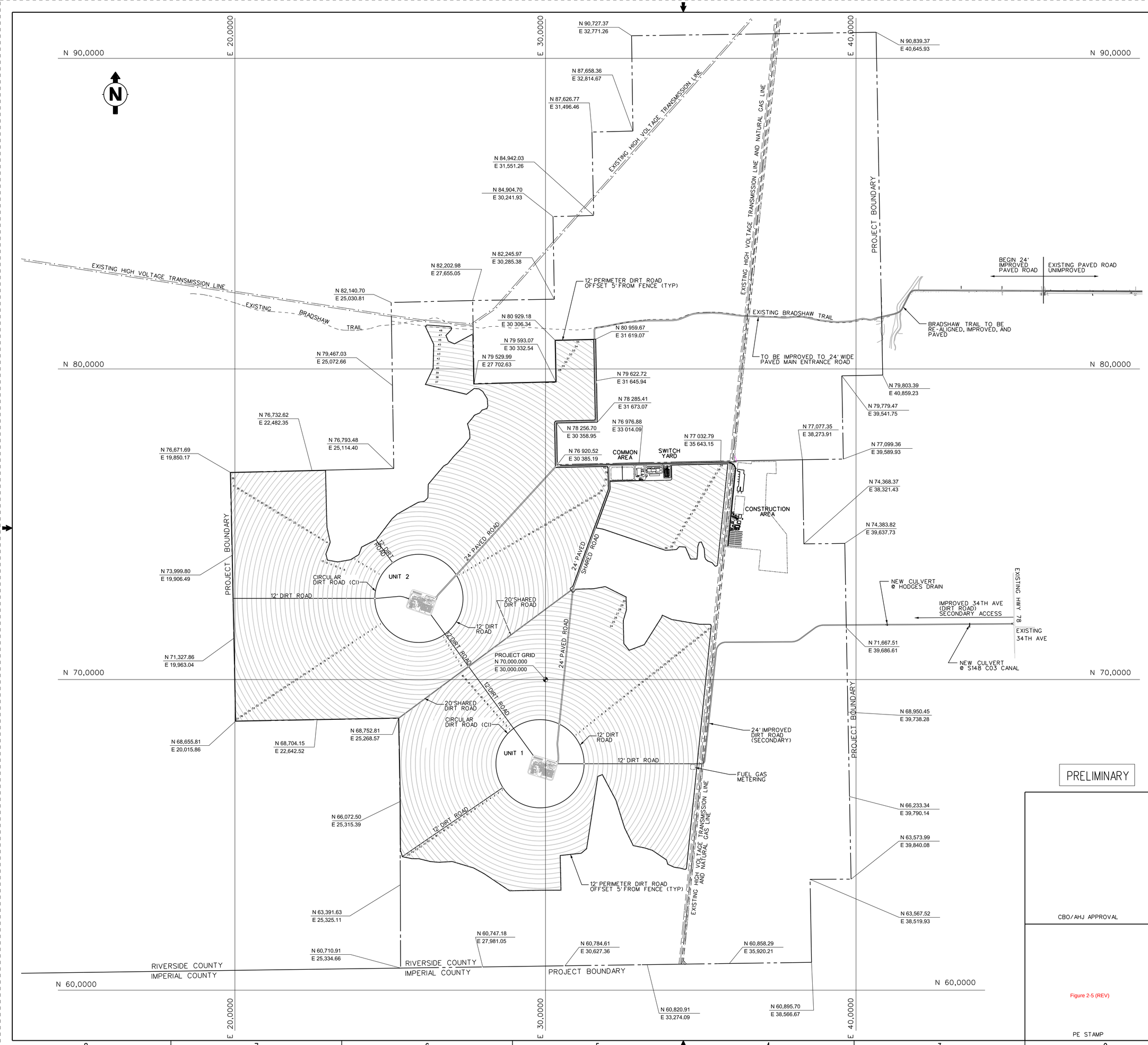
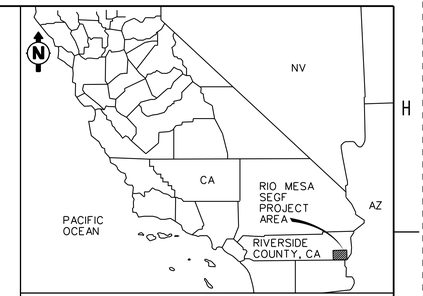
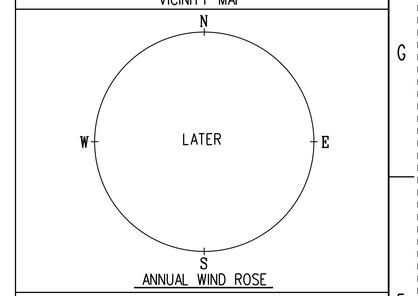




VICINITY MAP



ANNUAL WIND ROSE

NOTES:

1. SOLAR TOWER LOCATIONS:

PROJECT GRID COORDINATES			
UNIT	EASTING	NORTHING	COMMENTS
1	29,824.27	67,289.63	
2	25,924.66	72,612.47	

COORDINATES GIVEN TO CENTERLINE POWER TOWER.

2. TOTAL NUMBER OF HELIOSTATS TO BE BETWEEN 80,000 AND 100,000 EACH UNIT.
3. HELIOSTAT MAINTENANCE PATHS TO BE 10' DIRT ROAD.
4. DISTANCE BETWEEN HELIOSTAT MAINTENACE PATHS TO BE 152.6 FT.
5. HELIOSTAT PYLON DENSITY:
   - NEAR TOWER (UP TO 400-500 METERS): 0.03-0.04 PYLONS PER SQUARE METER.
   - 1,000 METERS FROM TOWER: 0.01-0.02 HELIOSTATS PER SQUARE METER.
   - 2,000 METERS FROM TOWER: 0.005-0.01 HELIOSTATS PER SQUARE METER.

LEGEND:

PROJECT BOUNDARY

0 1000 2000 3000
1" = 1000'

NO.	DATE	REVISIONS	BY	CHK	EGS			PE
B	13/JUN/2012	ISSUED FOR OWNER REVIEW	LAP	APM	DWF	-	-	-	TWA
A	5/JUN/2012	ISSUED FOR OWNER REVIEW	LAP	APM	DWF	-	-	-	TWA

SCALE: 1"=1000' DRAWN: 5/JUN/12 DATE: LAP

CBO/AHJ APPROVAL

BECHTEL POWER CORP.

FREDERICK, MARYLAND

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RIO MESA SOLAR ELECTRIC GENERATING FACILITY

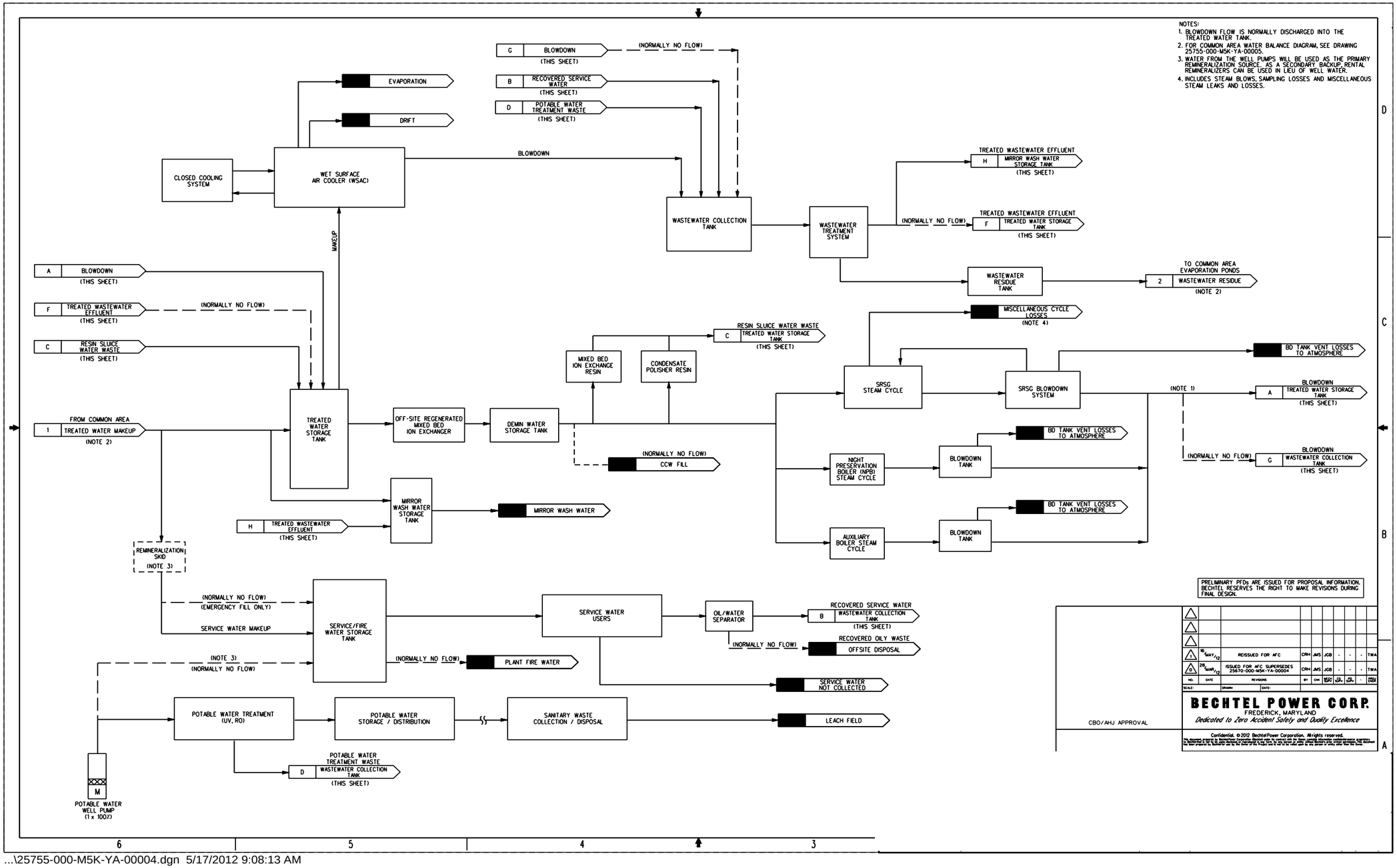
SITE PLAN

Figure 2-5 (REV)

PE STAMP

JOB NO.	DRAWING NO.	REV.
25755	000-C2-0000-00001	B

34"X44" E SIZE



...\25755-000-M5K-YA-00004.dgn 5/17/2012 9:08:13 AM

SOURCES: Bechtel Power, 2012

WATER BALANCE POWER BLOCK

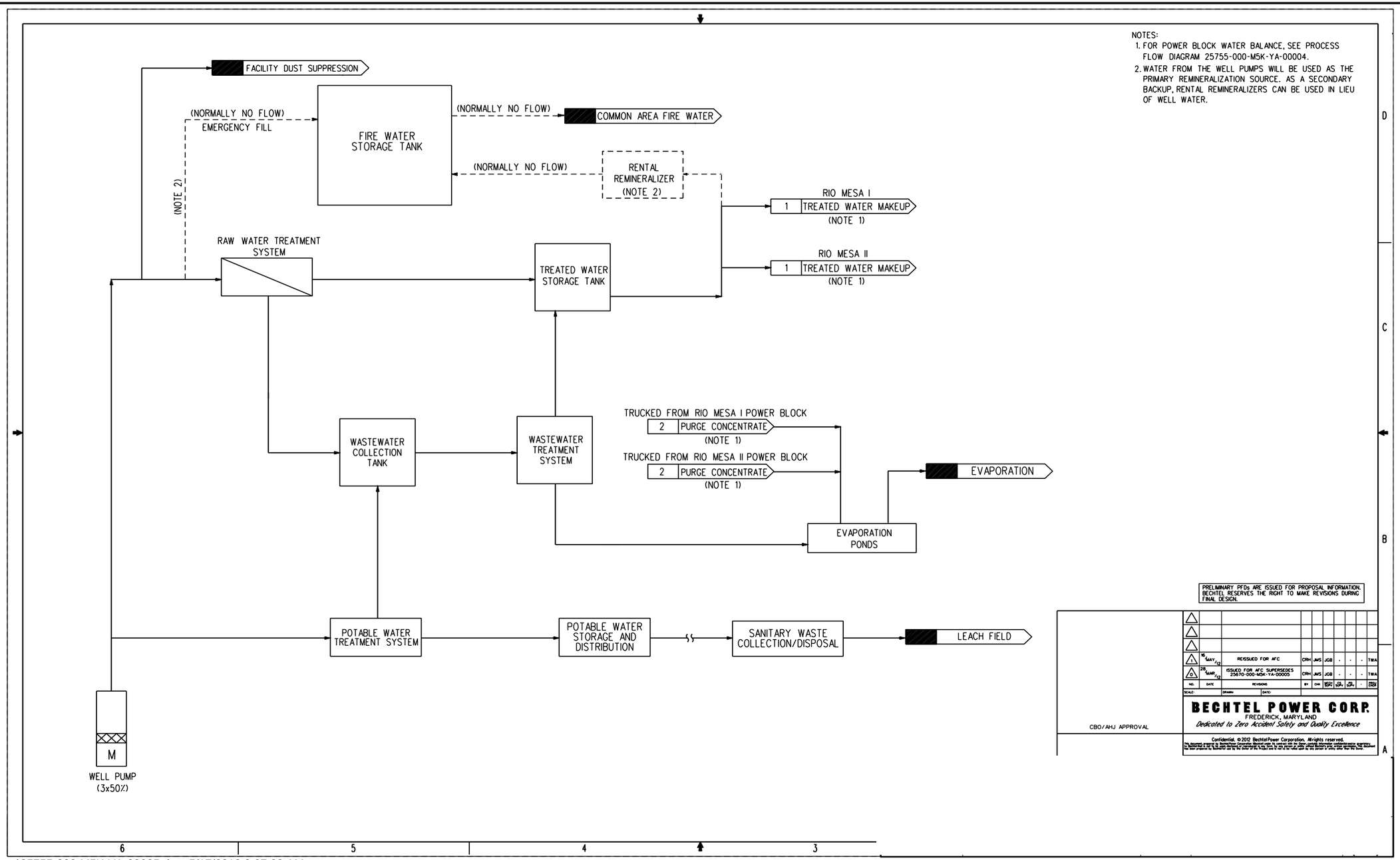
URS

NOT TO SCALE

CREATED BY: PM	DATE: 07-3-12	FIG. NO:
PM: AL	PROJ. NO: 27651006.30000	2-6A (REV)

Path: G:\gis\projects\157\27651002\graphics\al\Proj_Description\al\Project_Description\2012_Supplemental\Water Balance Power Block.ai P. Moreno 7/3/2012

NOTES:
1. FOR POWER BLOCK WATER BALANCE, SEE PROCESS FLOW DIAGRAM 25755-000-M5K-YA-00004.
2. WATER FROM THE WELL PUMPS WILL BE USED AS THE PRIMARY REMINERALIZATION SOURCE. AS A SECONDARY BACKUP, RENTAL REMINERALIZERS CAN BE USED IN LIEU OF WELL WATER.



...\25755-000-M5K-YA-00005.dgn 5/17/2012 9:07:33 AM

SOURCES: Bechtel Power, 2012

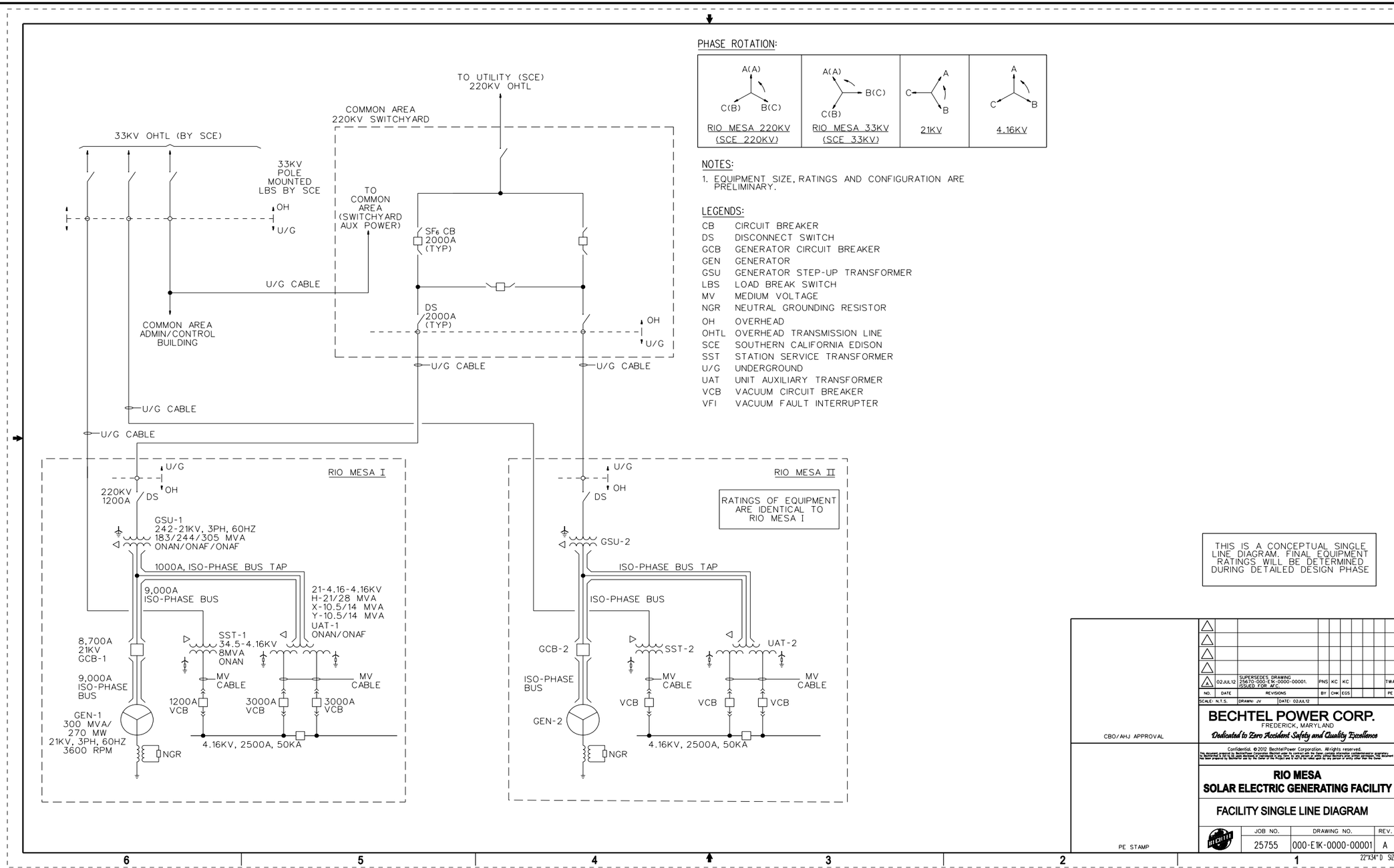
WATER BALANCE COMMON AREA

URS

NOT TO SCALE

CREATED BY: PM	DATE: 07-3-12	FIG. NO: 2-6B (REV)
PM: AL	PROJ. NO: 27651006.30000	

Path: G:\gis\projects\1577\27651002\graphics\ai\Proj_Description\2012_Supplemental\Water Balance Common Area.ai P. Moreno 7/3/2012



PHASE ROTATION:

RIO MESA 220KV (SCE 220KV)	RIO MESA 33KV (SCE 33KV)	21KV	4.16KV
A(A), B(C), C(B)	A(A), B(C), C(B)	A, B, C	A, B, C

NOTES:

1. EQUIPMENT SIZE, RATINGS AND CONFIGURATION ARE PRELIMINARY.

LEGENDS:

CB	CIRCUIT BREAKER
DS	DISCONNECT SWITCH
GCB	GENERATOR CIRCUIT BREAKER
GEN	GENERATOR
GSU	GENERATOR STEP-UP TRANSFORMER
LBS	LOAD BREAK SWITCH
MV	MEDIUM VOLTAGE
NGR	NEUTRAL GROUNDING RESISTOR
OH	OVERHEAD
OHTL	OVERHEAD TRANSMISSION LINE
SCE	SOUTHERN CALIFORNIA EDISON
SST	STATION SERVICE TRANSFORMER
U/G	UNDERGROUND
UAT	UNIT AUXILIARY TRANSFORMER
VCB	VACUUM CIRCUIT BREAKER
VFI	VACUUM FAULT INTERRUPTER

NO.	DATE	REVISIONS	BY	CHK	EGS			PE
0	02JUL12	SUPERSEDES DRAWING 25670-000-E1K-0000-00001. ISSUED FOR AFC.	PNS	KC	KC			TWA

SCALE: N.T.S. DRAWN: JV DATE: 02JUL12

CBO/AHJ APPROVAL

PE STAMP

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RIO MESA
SOLAR ELECTRIC GENERATING FACILITY

FACILITY SINGLE LINE DIAGRAM

JOB NO.	DRAWING NO.	REV.
25755	000-E1K-0000-00001	A

22"X34" D SIZE

SOURCES: Bechtel Power, 2012

SINGLE LINE

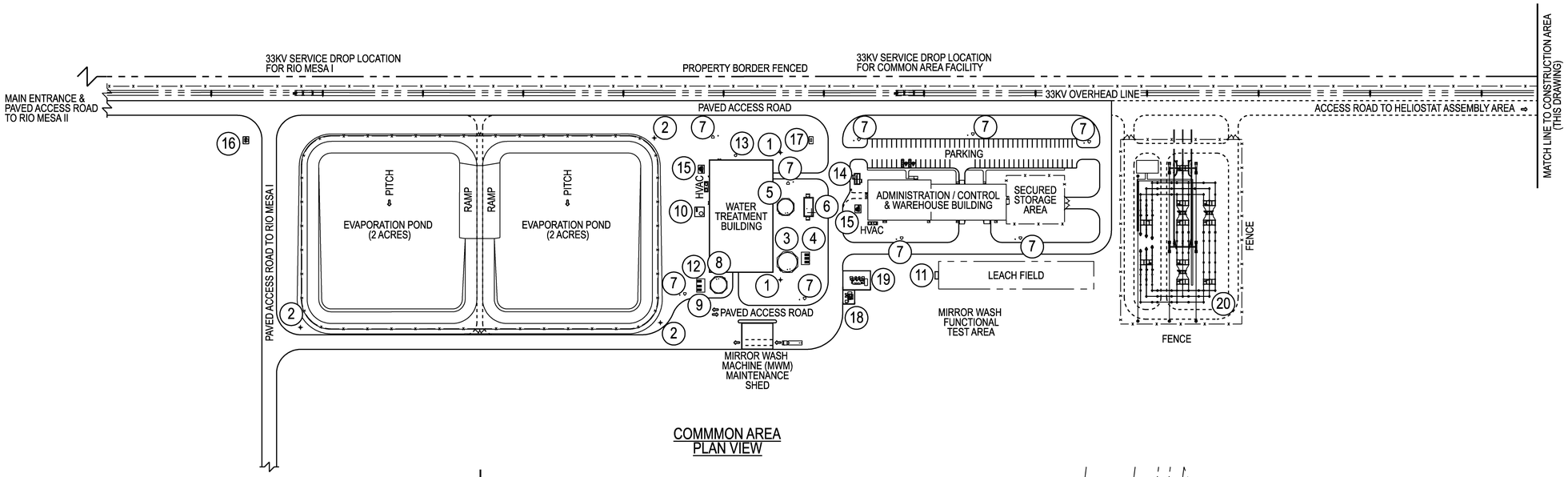
URS

NOT TO SCALE

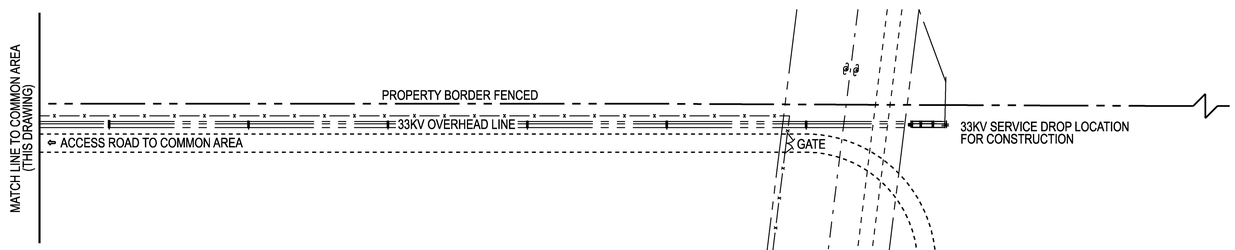
CREATED BY: PM	DATE: 07-3-12	FIG. NO: 2-7 (REV)
PM: AL	PROJ. NO: 27651006.30000	

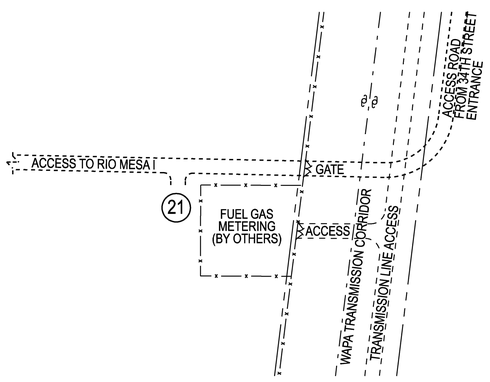
Path: G:\gis\projects\1577\27651002\graphics\ai\Proj_Description\ai\Project_Description\2012_Supplemental\Single Line.ai P. Moreno 7/3/2012

ITEM	DESCRIPTION
1	WATER WELL / WATER SUPPLY (2)
2	WATER MONITORING WELL (3)
3	TREATED WATER STORAGE TANK
4	TREATED WATER TRANSFER PUMPS (3)
5	FIRE WATER STORAGE TANK
6	FIRE PUMP MODULE (ELECTRIC, DIESEL, & JOCKEY)
7	FIRE HYDRANT & HOSE HOUSE (9)
8	WASTEWATER COLLECTION TANK
9	WASTEWATER FEED PUMPS (2)
10	WASTEWATER RESIDUE TANK & FORWARDING PUMP (1)
11	SEWAGE SEPTIC TANK
12	DUST SUPPRESSION SUPPLY PUMP (1)
13	LIFT STATION
14	EMERGENCY DIESEL GENERATOR
15	MCC TRANSFORMER (2)
16	TEMPORARY LV TRANSFORMER (2)
17	33KV PAD MOUNTED SWITCHGEAR
18	SPARE UNIT AUXILIARY TRANSFORMER
19	SPARE GENERATOR STEP-UP TRANSFORMER
20	230KV SWITCHYARD
21	PIG LAUNCHER

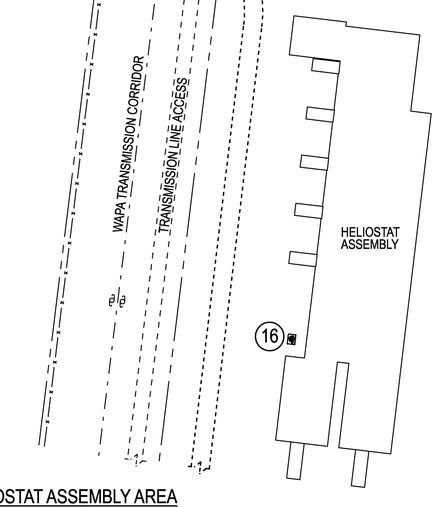


COMMMON AREA PLAN VIEW

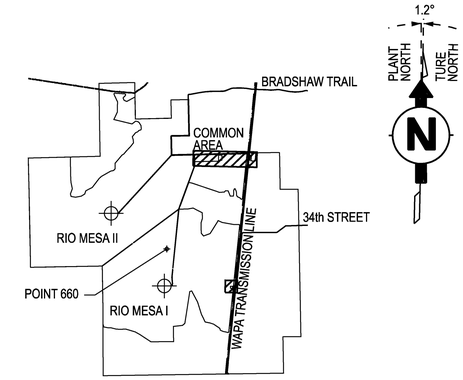




FUEL GAS METERING AREA PLAN VIEW



HELIOSTAT ASSEMBLY AREA PLAN VIEW



KEY PLAN

REFERENCES:

SITE PLAN	25755-000-C2-0000-00001
COMMON AREA SWITCHYARD GENERAL ARRANGEMENT	25755-009-EZ-3510-00001
220KV & 33KV UNDERGROUND CABLE OVERALL ROUTING	25755-000-EZ-3601-00001
220LV & 33KV UNDERGROUND CABLE ROUTING & SECTIONS	25755-009-EZ-3601-00001

0 200 400 600FT

NO.	DATE	REVISIONS	BY	CHK	EGS			PE
A	16JUL12	ISSUED FOR OWNER APPROVAL	AKS	RPT	RPT			TWA

SCALE: 1"=125' DRAWN: AKS DATE: 06FEB12

BECHTEL POWER CORP.
FREDERICK, MARYLAND
Dedicated to Zero Accident Safety and Quality Excellence

CBO/AHJ APPROVAL

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Figure 2-8 (REV)

PE STAMP

RIO MESA
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COMMON AREA PLOT PLAN

JOB NO.	DRAWING NO.	REV.
25755	009-P1-0010-00001	A

22"X34" D SIZE

UNIT 2

PIG RECEIVING AREA

10' HELIOSTAT MAINTENANCE DIRT PATH (TYP)

FUEL GAS TO UNIT 2
4" DIAMETER CARBON STEEL
UNDERGROUND
7230' LINEAR LENGTH

20' SHARED DIRT ROAD

24' PAVED ROAD

10' HELIOSTAT MAINTENANCE DIRT PATH (TYP)

N 70,000

24' IMPROVED GRAVEL ROAD (SECONDARY)

12' CIRCULAR DIRT ROAD

UNIT 1

24' GRAVEL ROAD

FUEL GAS TO UNIT 1
4" DIAMETER CARBON STEEL
UNDERGROUND
6570' LINEAR LENGTH

PIG LAUNCHING AREA

FUEL GAS METERING

EX. HIGH VOLTAGE TRANSMISSION LINE AND NATURAL GAS LINE

12' DIRT ROAD

N 65,000

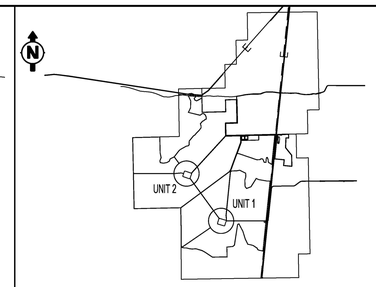
10' HELIOSTAT MAINTENANCE DIRT PATH (TYP)

12' PERIMETER DIRT ROAD OFFSET 5' FROM FENCE (TYP)

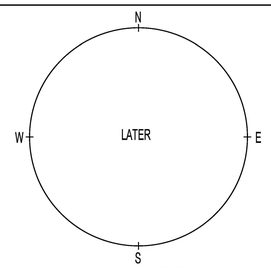
PROPERTY BOUNDARY

E 25,000

E 30,000



KEY MAP



ANNUAL WIND ROSE

NOTES:

1. FOR COORDINATE SYSTEM, COORDINATES OF PROJECT BOUNDARY & VERTICAL DATUM, SEE SITE PLAN DRAWING 000-C2-0000-00001.
2. FOR STANDARD FENCING TYPES, DETAILS AND NOTES, SEE DWG. 000-CO-0090-00003 & 000-CO-0090-00006.
3. FOR GROUNDING DETAILS, SEE BECHTEL ENGINEERING DESIGN STANDARD FOR GROUNDING NOTES, SYMBOLS AND DETAILS NO. 000-EGJ-0000-LATER.
4. ALL GATES WITH AN OPENING 8' OR LARGER SHALL BE DOUBLE SWING GATES.
5. SEE DRAWING NOS. 000-EG-0000-00001 AND 000-EG-0000-00002 FOR CONNECTION DETAILS BETWEEN FENCING AND THE ELECTRICAL GROUNDING SYSTEM.

LEGEND:

—x—x—x—(1) 8' PERMANENT SECURITY FENCE

—G—G—G—G— GAS LINE

PRELIMINARY ISSUE
NOT FOR
CONSTRUCTION

0 400 800 1200
1" = 400'

NO.	DATE	REVISIONS	BY	CHK	EGS				PE
A	17 JUL 12	ISSUED FOR REVIEW	LAP	DWF	DWF	-	-	-	TWA

SCALE: 1"=400 DRAWN: LAP DATE: 16 JUL 2012

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RIO MESA
SOLAR ELECTRIC GENERATING FACILITY

Figure DA2-1 (rev)

RIO MESA
UNDERGROUND GAS LINE LOCATION PLAN

PE STAMP

JOB NO.	DRAWING NO.	REV.
25755	009-C2K-0000-00001	A

34"X44" E SIZE

TYPICAL VIEW OF POWER BLOCK FROM THE NORTHEAST FACING SOUTHWEST
RIO MESA SOLAR
ELECTRIC GENERATING FACILITY

URS	SOURCES: URS 2011 NOT TO SCALE	CHECKED BY: CM	DATE: 7/20/2012	FIG. NO: **2-5 (REV)**
		PM: AL	PROJ. NO: 27651006.10000	