

**LEGEND**

- SITE CONTROL BOUNDARY LINE
- PROJECT BOUNDARY LINE

**PRELIMINARY  
NOT FOR CONSTRUCTION**

REV	DATE	DESCRIPTION	BY	CHKD	APP'D	DATE	PL	DA	BA	BA
B	05/11/11	UPDATE DETAIL								
A	01/03/11	INITIAL ISSUE FOR REVIEW								

**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

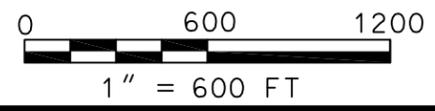
DRAWN BY <b>P. LOUEN</b> CHECKED BY  LEAD DESIGNER <b>P. LOUEN</b> ENGINEER/TECH SPECIALIST <b>D. AKOLA</b> PROJECT ENGINEERING MANAGER <b>B. ANDERS</b> PROJECT MANAGER <b>B. ANDERS</b>	PROFESSIONAL ENGINEER'S SEAL        
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CLIENT/PROJECT TITLE  
**SOLARRESERVE**  
 SAGUACHE SOLAR ENERGY PROJECT

OVERALL CONCEPTUAL  
 GENERAL ARRANGEMENT  
 ADMINISTRATION/MECHANICAL BUILDINGS

SCALE	AS NOTED	DRAWING SIZE	11" x 17"
WORLEYPARSONS' DRAWING NO.	SRSU-0-DW-111-002-002	REV	B



SRSU-0-DW-111-002-002-RevB.dwg 09-Aug-2011 16:27



COUNTY ROAD G

WIDTH UNKNOWN

24'

PLANT ACCESS ROAD

EXISTING TRANSMISSION LINE EASEMENT (APPROXIMATE LOCATION) TO BE RELOCATED AROUND WEST SIDE OF SOLAR FIELD

SOLAR FIELD PERIMETER FENCE

SOLAR FIELD PERIMETER ROAD

HELIOSTATS

PRELIMINARY NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHKD	APP'D	DATE	DESCRIPTION	BY	CHKD	APP'D	DATE	DESCRIPTION
B	06/11	UPDATE DETAIL										
A	04/10	ISSUE FOR REVIEW										

REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.

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

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P. LOUEN

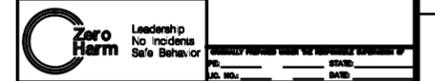
CHECKED BY

LEAD DESIGNER  
P. LOUEN

ENGINEER/TECH SPECIALIST  
D. AKOLA

PROJECT ENGINEERING MANAGER  
B. ANDERS

PROJECT MANAGER  
B. ANDERS

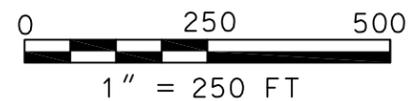


CLIENT/PROJECT TITLE

**SOLARRESERVE**

SAGUACHE SOLAR ENERGY PROJECT

ACCESS ROAD TIE TO COUNTY ROAD G



SCALE AS NOTED DRAWING SIZE 11" x 17"

WORLEYPARSONS' DWG. NO. SRSU-0-DW-111-002-003 REV B

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**STANDARD ACRONYMS:**

EL	ELEVATION
T.O.C.	TOP OF CONCRETE
T.O.S.	TOP OF STEEL
H.P.	HIGH PRESSURE
I.P.	INTERMEDIATE PRESSURE
L.P.	LOW PRESSURE
H.P. GRADE	HIGH POINT OF GRADE
H.P. ROOF	HIGH POINT OF ROOF
TYP	TYPICAL
ACC	AIR COOLED CONDENSER
UPS	UNINTERRUPTIBLE POWER SUPPLY

**LEGEND**

- 1 SOLAR RECEIVER TOWER
- 2 STEAM GENERATION BUILDING
- 3 HOT SALT STORAGE TANK AREA
- 3A HOT SALT STORAGE TANK
- 4 COLD SALT STORAGE TANK AREA
- 4A COLD SALT STORAGE TANK
- 5 PUMP SUPPORT & MAINTENANCE AREA
- 5A PUMP MAINTENANCE AREA
- 5B PUMP REMOVAL HATCH
- 6 STEAM TURBINE/GENERATOR AREA
- 6A GENERATOR
- 6B H.P. TURBINE
- 6C I.P./L.P. TURBINE
- 6D TURBINE EXHAUST DUCT
- 6E HYDRAULIC OIL UNIT
- 6F LUBE OIL UNIT
- 6G FLOOR TRENCH
- 6H HEATER BAY
- 6J BOILER FEEDWATER PUMPS (NOT SHOWN)
- 6K DEAERATOR (NOT SHOWN)
- 7 ELECTRICAL BUILDING/PDC
- 8 WATER TREATMENT AREA/BUILDING
- 8A DEMINERALIZED WATER TANK
- 8B DEMINERALIZED WATER PUMPS (NOT SHOWN)
- 8C SERVICE WATER PUMPS (NOT SHOWN)
- 9 AIR COOLED CONDENSER AREA
- 9A AIR COOLED CONDENSER
- 9B CONDENSATE DRAIN TANK & PUMPS (UNDER ACC)
- 10 ELECTRICAL TRANSMISSION AREA
- 10A SEGREGATED PHASE BUS DUCT
- 10B GENERATOR CIRCUIT BREAKER SWITCHGEAR
- 10C GENERATOR STEP-UP TRANSFORMER
- 10D UNIT AUXILIARY TRANSFORMER
- 10E STATION SERVICE TRANSFORMER
- 10F STEP-UP CIRCUIT BREAKER
- 10G TRANSMISSION TOWER
- 10H OVERHEAD POWER LINES
- 10J BACKFEED UTILITY TRANSFORMER
- 10K TUBULAR STEEL POLE
- 11 CONTROL & OPERATIONS BUILDING
- 12 SERVICE/FIRE WATER STORAGE TANK
- 13 FIRE WATER PUMP HOUSE
- 14 NOT USED
- 15 FIRE WATER BOOSTER PUMPS
- 16 ABOVE GROUND DIESEL FUEL STORAGE TANK
- 17 HELIOSTAT WASH TRUCK FILL AREA
- 18 OIL/WATER SEPARATOR - LATER
- 19 AUXILIARY COOLING SYSTEM
- 19A FIN FAN COOLER
- 19B WET SURFACE AIR COOLER (WSAC)
- 19C CLOSED COOLING WATER PUMPS
- 20 HIGH ENERGY PIPE BRIDGE
- 21 NOT USED
- 22 MOLTEN SALT CONTAINMENT AREA
- 22A CAISSON FOUNDATION
- 22B DIVERSION WALL
- 22C RETAINING WALL
- 22D 2:1 SLOPED SOIL
- 23 DESIGNATED PARKING AREA
- 24 HELIOSTAT UPS AREA
- 24A EMERGENCY GENERATOR
- 24B HELIOSTAT DISTRIBUTION SWITCHGEAR
- 25 RAW WATER SUPPLY WELLS & PUMPS (SEE NOTE 6)

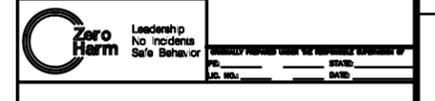
**PRELIMINARY  
NOT FOR CONSTRUCTION**

REV	DATE	DESCRIPTION	BY	CHKD	APP'D
B	05/10/11	UPDATE DETAIL	KW	BA	PL
A	05/10/11	INITIAL ISSUE FOR REVIEW	PL	DA	BA

DESIGN STATE	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.
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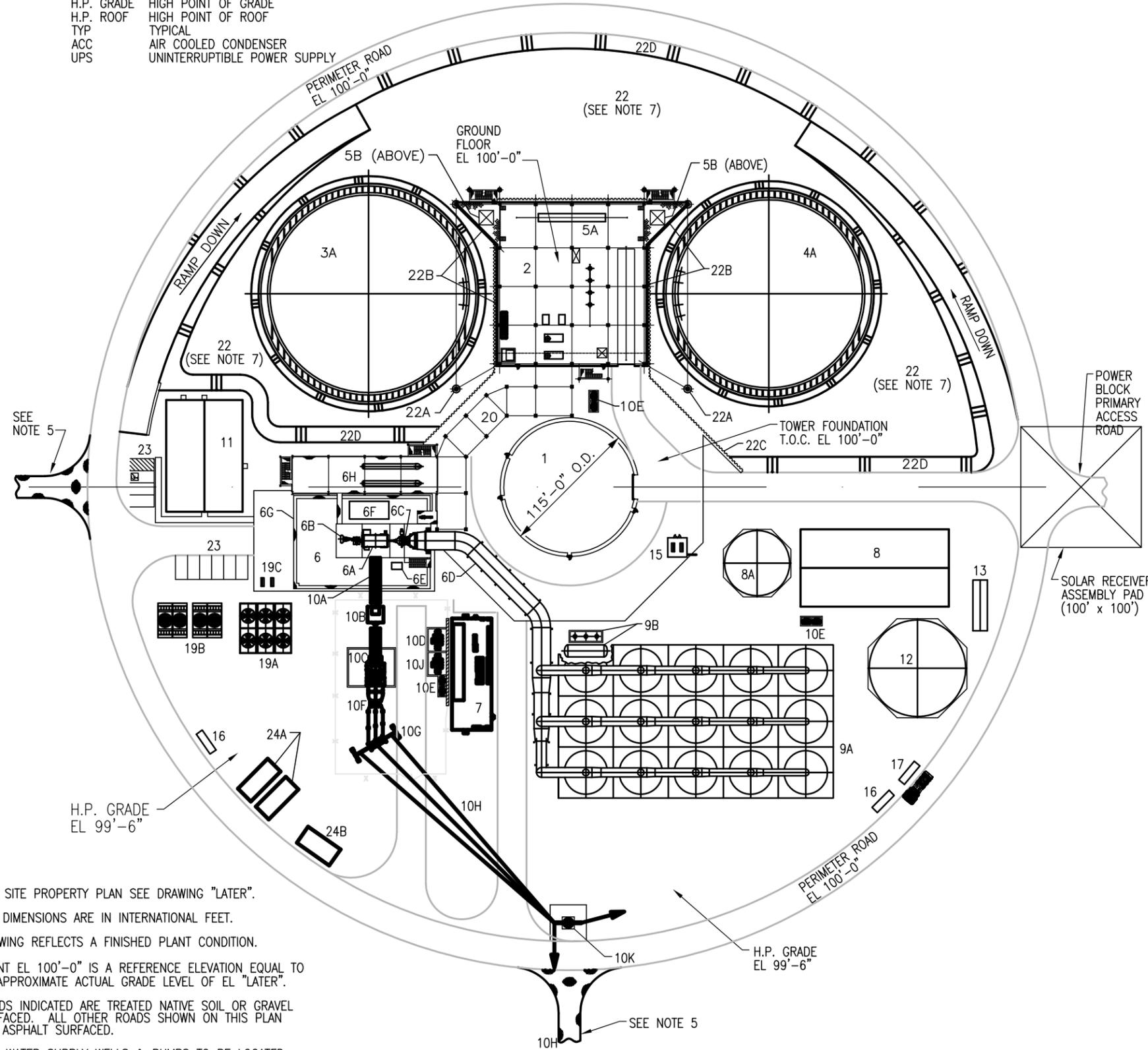
DRAWN BY <b>P. LOUEN</b>	PROFESSIONAL ENGINEER'S SEAL
CHECKED BY	
LEAD DESIGNER <b>P. LOUEN</b>	
ENGINEER/TECH SPECIALIST <b>D. AKOLA</b>	
PROJECT ENGINEERING MANAGER <b>B. ANDERS</b>	
PROJECT MANAGER <b>B. ANDERS</b>	



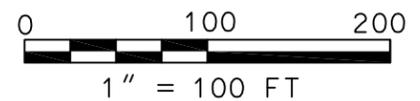
**SOLARRESERVE**  
SAGUACHE SOLAR ENERGY PROJECT

GENERAL ARRANGEMENT  
SOLAR POWER PLANT  
POWER BLOCK PLAN

SCALE: AS NOTED	DRAWING SIZE: 11" x 17"
WORLEYPARSONS' DIAL NO.	REV
SRSU-1-DW-111-002-002	B



- NOTES:**
1. FOR SITE PROPERTY PLAN SEE DRAWING "LATER".
  2. ALL DIMENSIONS ARE IN INTERNATIONAL FEET.
  3. DRAWING REFLECTS A FINISHED PLANT CONDITION.
  4. PLANT EL 100'-0" IS A REFERENCE ELEVATION EQUAL TO AN APPROXIMATE ACTUAL GRADE LEVEL OF EL "LATER".
  5. ROADS INDICATED ARE TREATED NATIVE SOIL OR GRAVEL SURFACED. ALL OTHER ROADS SHOWN ON THIS PLAN ARE ASPHALT SURFACED.
  6. RAW WATER SUPPLY WELLS & PUMPS TO BE LOCATED LATER WITHIN OR WITHIN CLOSE PROXIMITY TO THE POWER BLOCK.
  7. BOTTOM ELEVATION OF CONTAINMENT AREA TO BE DETERMINED LATER.

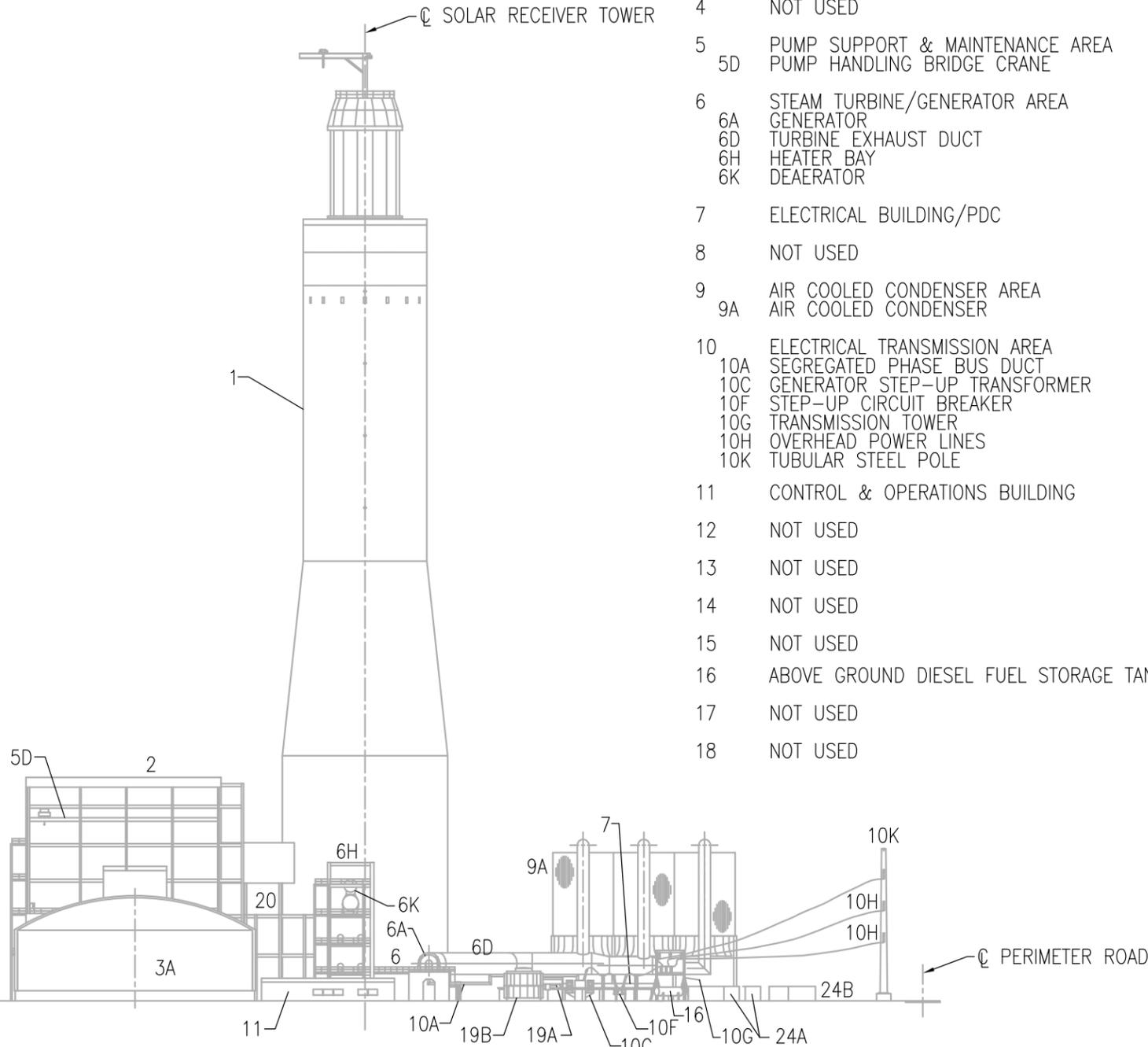


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EL 700'-0"  
EL 650'-0"  
EL 600'-0"  
EL 550'-0"  
EL 500'-0"  
EL 450'-0"  
EL 400'-0"  
EL 350'-0"  
EL 300'-0"  
EL 250'-0"  
EL 200'-0"  
EL 150'-0"  
EL 100'-0"  
EL 50'-0"  
EL 0'-0"  
(GROUND FLOOR  
REFERENCE EL 100'-0")



POWER BLOCK ELEVATION LOOKING EAST

LEGEND

- 1 SOLAR RECEIVER TOWER
- 2 STEAM GENERATION BUILDING
- 3 HOT SALT STORAGE TANK AREA
- 3A HOT SALT STORAGE TANK
- 4 NOT USED
- 5 PUMP SUPPORT & MAINTENANCE AREA
- 5D PUMP HANDLING BRIDGE CRANE
- 6 STEAM TURBINE/GENERATOR AREA
- 6A GENERATOR
- 6D TURBINE EXHAUST DUCT
- 6H HEATER BAY
- 6K DEAERATOR
- 7 ELECTRICAL BUILDING/PDC
- 8 NOT USED
- 9 AIR COOLED CONDENSER AREA
- 9A AIR COOLED CONDENSER
- 10 ELECTRICAL TRANSMISSION AREA
- 10A SEGREGATED PHASE BUS DUCT
- 10C GENERATOR STEP-UP TRANSFORMER
- 10F STEP-UP CIRCUIT BREAKER
- 10G TRANSMISSION TOWER
- 10H OVERHEAD POWER LINES
- 10K TUBULAR STEEL POLE
- 11 CONTROL & OPERATIONS BUILDING
- 12 NOT USED
- 13 NOT USED
- 14 NOT USED
- 15 NOT USED
- 16 ABOVE GROUND DIESEL FUEL STORAGE TANK
- 17 NOT USED
- 18 NOT USED
- 19 AUXILIARY COOLING SYSTEM
- 19A FIN FAN COOLER
- 19B WET SURFACE AIR COOLER (WSAC)
- 20 HIGH ENERGY PIPE BRIDGE
- 21 NOT USED
- 22 NOT USED
- 23 NOT USED
- 24 HELIOSTAT UPS AREA
- 24A EMERGENCY GENERATOR
- 24B HELIOSTAT DISTRIBUTION SWITCHGEAR
- 25 NOT USED

NOTES:

1. FOR POWER BLOCK PLAN SEE DRAWING SRSU-1-DW-111-002-002.

PRELIMINARY  
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHKD	APP'D
B	08/11/11	UPDATE DETAIL	KRM	BA	PL
A	07/29/11	INITIAL ISSUE FOR REVIEW	PL	DA	BA

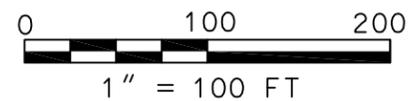
  

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COORDINATING PERSONNEL	PROFESSIONAL ENGINEER'S SEAL	
DRAWN BY	P. LOUEN	
CHECKED BY	P. LOUEN	
LEAD DESIGNER	P. LOUEN	
ENGINEER/TECH SPECIALIST	D. AKOLA	
PROJECT ENGINEERING MANAGER	B. ANDERS	
PROJECT MANAGER	B. ANDERS	



SOLARRESERVE  
SAGUACHE SOLAR ENERGY PROJECT

GENERAL ARRANGEMENT  
SOLAR POWER PLANT  
POWER BLOCK ELEVATION



SCALE	AS NOTED	DRAWING SIZE	11" x 17"
WORLEYPARSONS' DWG. NO.	SRSU-1-DW-111-002-003		REV
			B

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