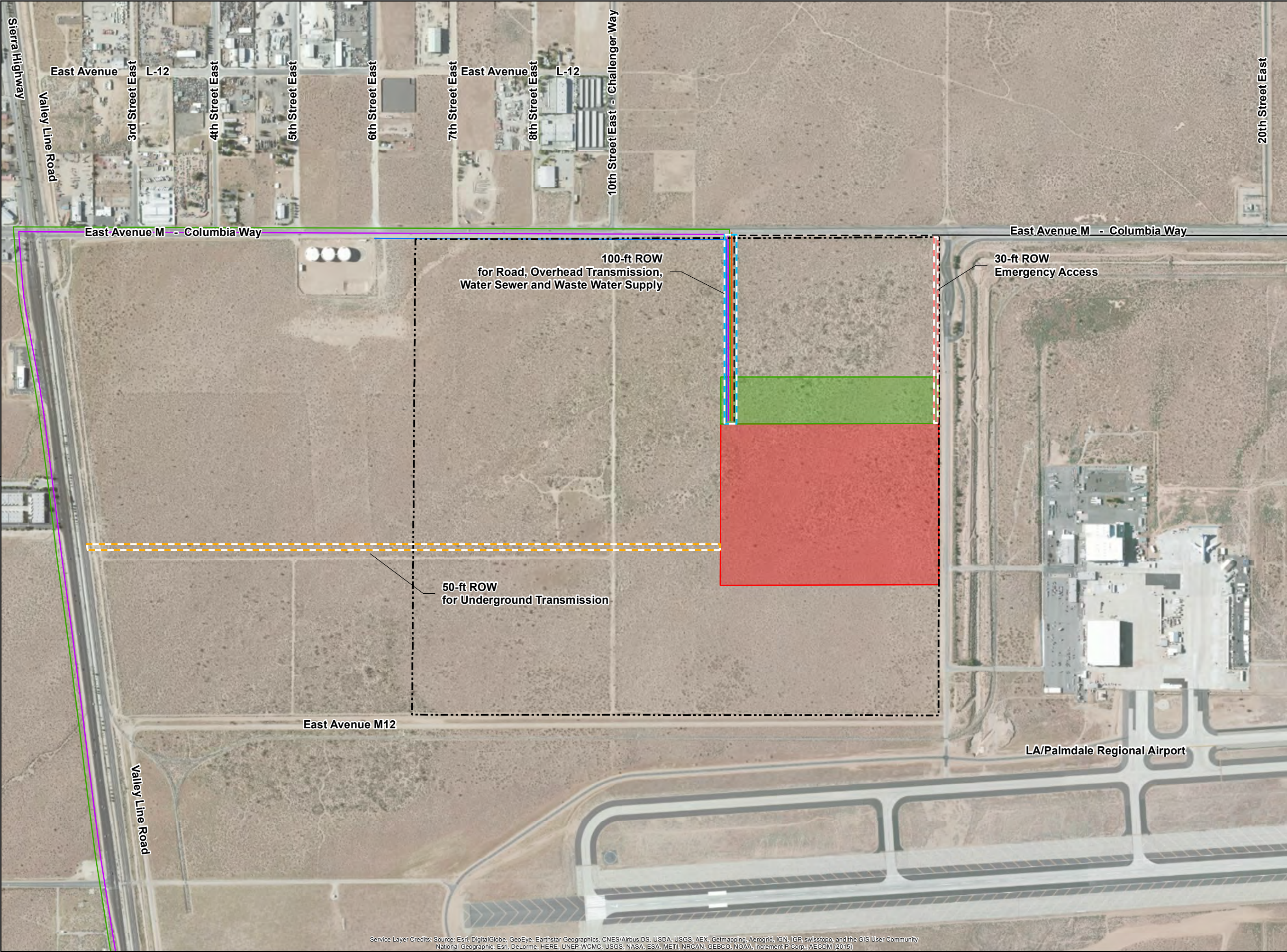


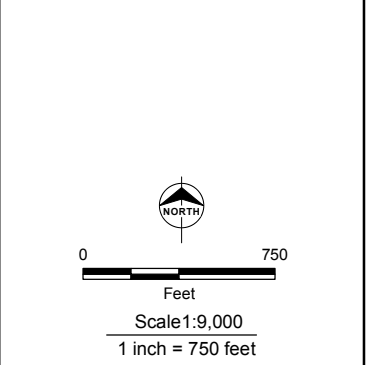
## DOCKETED

<b>Docket Number:</b>	08-AFC-09C
<b>Project Title:</b>	Palmdale Hybrid Power Project - Compliance
<b>TN #:</b>	205394-2
<b>Document Title:</b>	Palmdale Energy Project RPTA Section 2 & 3 Figures
<b>Description:</b>	N/A
<b>Filer:</b>	Marie Fleming
<b>Organization:</b>	Galati   Blek LLP
<b>Submitter Role:</b>	Applicant Representative
<b>Submission Date:</b>	7/17/2015 5:26:37 PM
<b>Docketed Date:</b>	7/20/2015





- Natural Gas Supply Pipeline (Previously Approved)
- Potable Water Line (Previously Approved)
- Reclaimed Water Supply Pipeline (Previously Approved)
- Sanitary Wastewater Pipeline (Previously Approved)
- Transmission Line Segment 1 (Previously Approved)
- Transmission Line Segment 1 Extension (Not Approved)
- Current Project Boundaries
- Right-of-way (100 feet)
- Right-of-way (50 feet)
- Right-of-way (30 feet)
- New Project - Temporary Laydown/Parking
- New Project Boundaries



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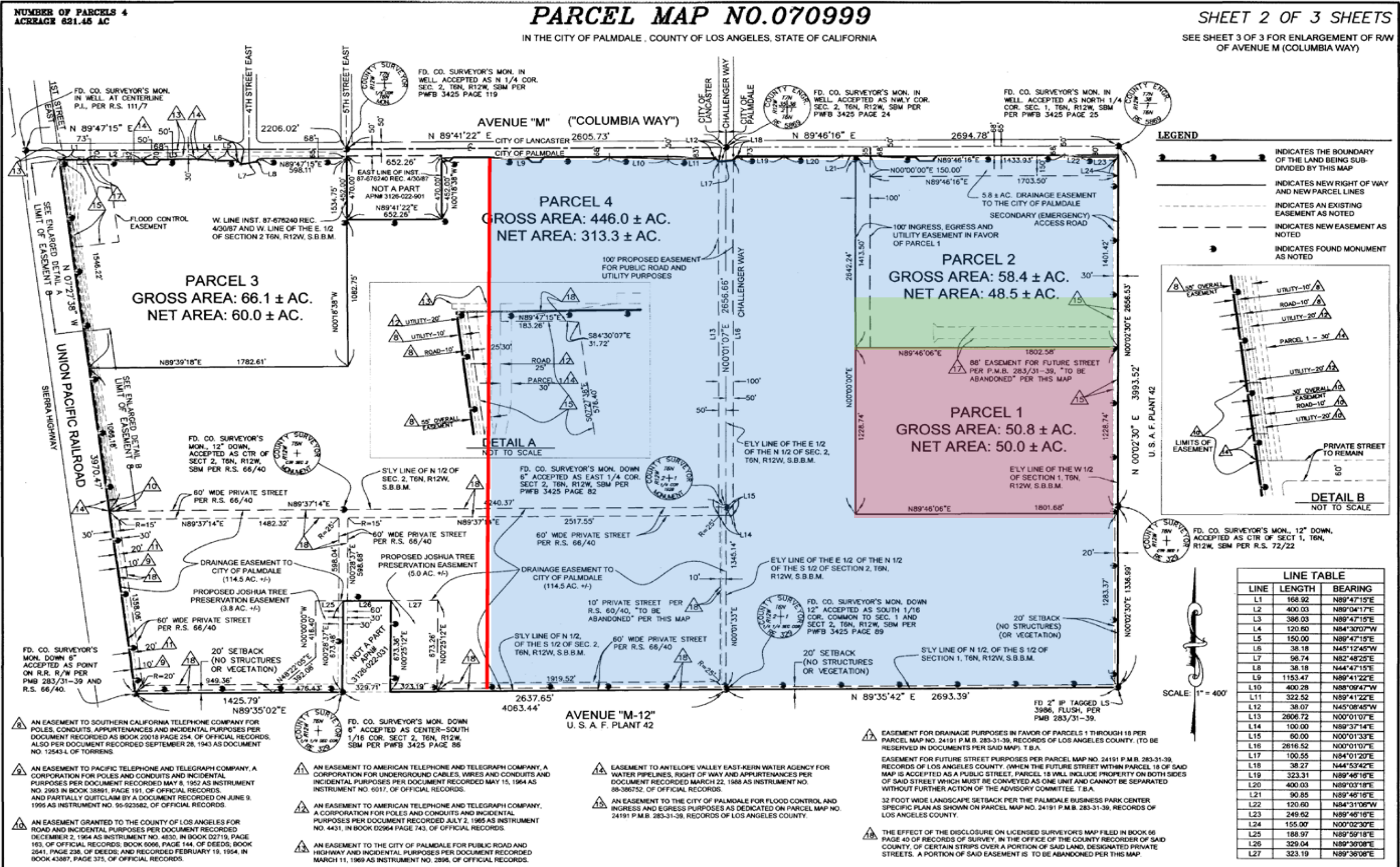
Palmdale Energy Project

Site Plan

Date: 4/27/2015 Project: 60343963

FIGURE 2-1



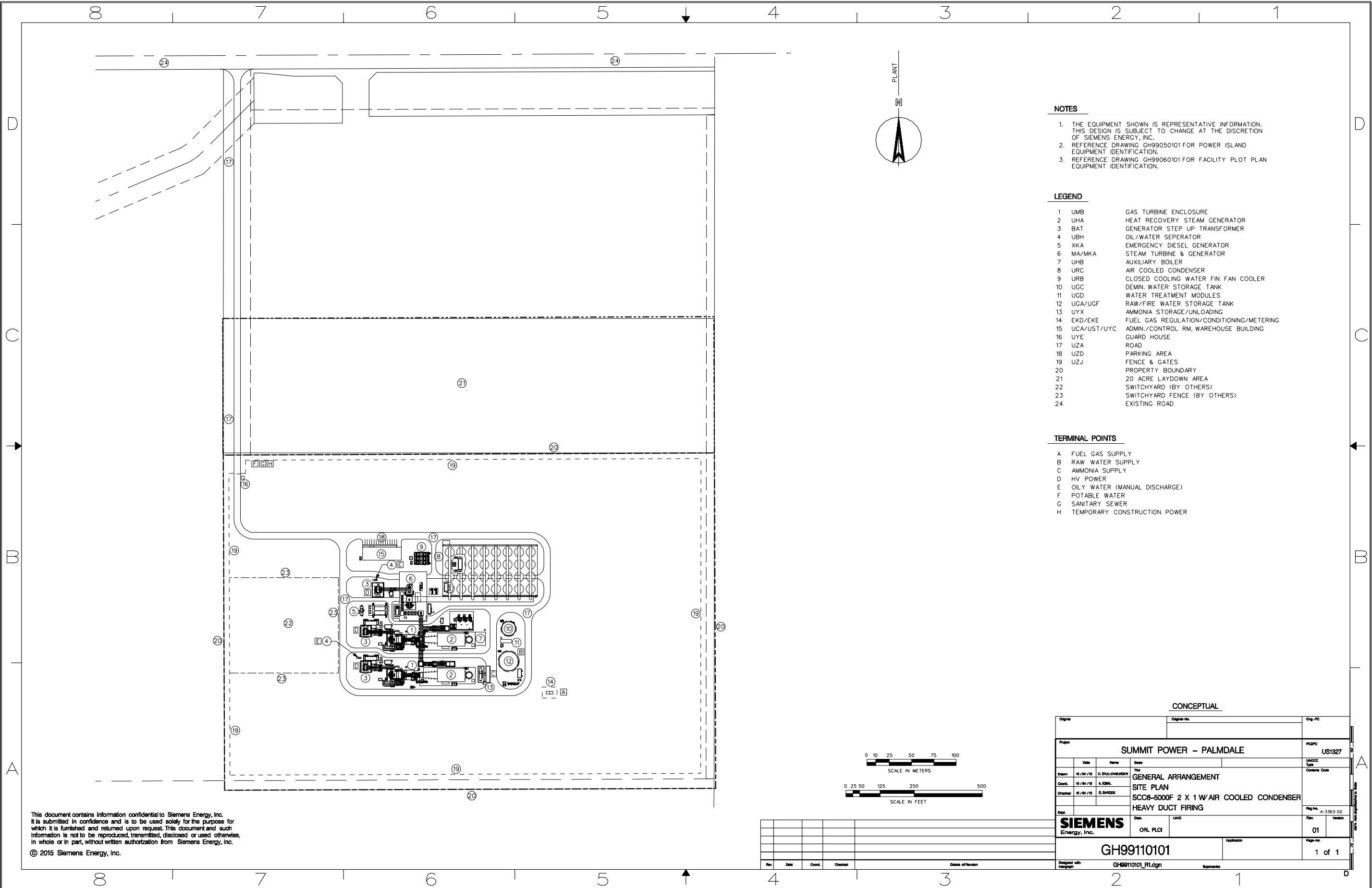


Blue/Green/Red = Current Project Boundaries

Red = New Project Boundaries

Green = Temporary Laydown/Parking – New Project

FIGURE 2-2 PARCEL MAP - SITE AND LAYDOWN



NOTES

1. THE EQUIPMENT SHOWN IS REPRESENTATIVE INFORMATION. THIS DESIGN IS SUBJECT TO CHANGE AT THE DISCRETION OF SIEMENS ENERGY, INC.
2. REFERENCE DRAWING GH99050101 FOR POWER ISLAND EQUIPMENT IDENTIFICATION.
3. REFERENCE DRAWING GH99060101 FOR FACILITY PLOT PLAN EQUIPMENT IDENTIFICATION.

LEGEND

- |    |             |   |
|----|-------------|---|
| 1  | UMB         | GAS TURBINE ENCLOSURE                     |
| 2  | UHA         | HEAT RECOVERY STEAM GENERATOR             |
| 3  | BAT         | GENERATOR STEP UP TRANSFORMER             |
| 4  | UBH         | OIL/WATER SEPARATOR                       |
| 5  | XKA         | EMERGENCY DIESEL GENERATOR                |
| 6  | MA/MKA      | STEAM TURBINE & GENERATOR                 |
| 7  | UHB         | AUXILIARY BOILER                          |
| 8  | URC         | AIR COOLED CONDENSER                      |
| 9  | URB         | CLOSED COOLING WATER FIN FAN COOLER       |
| 10 | UGC         | DEMIN. WATER STORAGE TANK                 |
| 11 | UGD         | WATER TREATMENT MODULES                   |
| 12 | UGA/UGF     | RAW/FIRE WATER STORAGE TANK               |
| 13 | UYX         | AMMONIA STORAGE/UNLOADING                 |
| 14 | EKD/EKE     | FUEL GAS REGULATION/CONDITIONING/METERING |
| 15 | UCA/UST/UYC | ADMIN./CONTROL RM. WAREHOUSE BUILDING     |
| 16 | UYE         | GUARD HOUSE                               |
| 17 | UZA         | ROAD                                      |
| 18 | UZD         | PARKING AREA                              |
| 19 | UZJ         | FENCE & GATES                             |
| 20 |             | PROPERTY BOUNDARY                         |
| 21 |             | 20 ACRE LAYDOWN AREA                      |
| 22 |             | SWITCHYARD (BY OTHERS)                    |
| 23 |             | SWITCHYARD FENCE (BY OTHERS)              |
| 24 |             | EXISTING ROAD                             |

TERMINAL POINTS

- |   |                               |
|---|-------------------------------|
| A | FUEL GAS SUPPLY               |
| B | RAW WATER SUPPLY              |
| C | AMMONIA SUPPLY                |
| D | HV POWER                      |
| E | OILY WATER (MANUAL DISCHARGE) |
| F | POTABLE WATER                 |
| G | SANITARY SEWER                |
| H | TEMPORARY CONSTRUCTION POWER  |

CONCEPTUAL

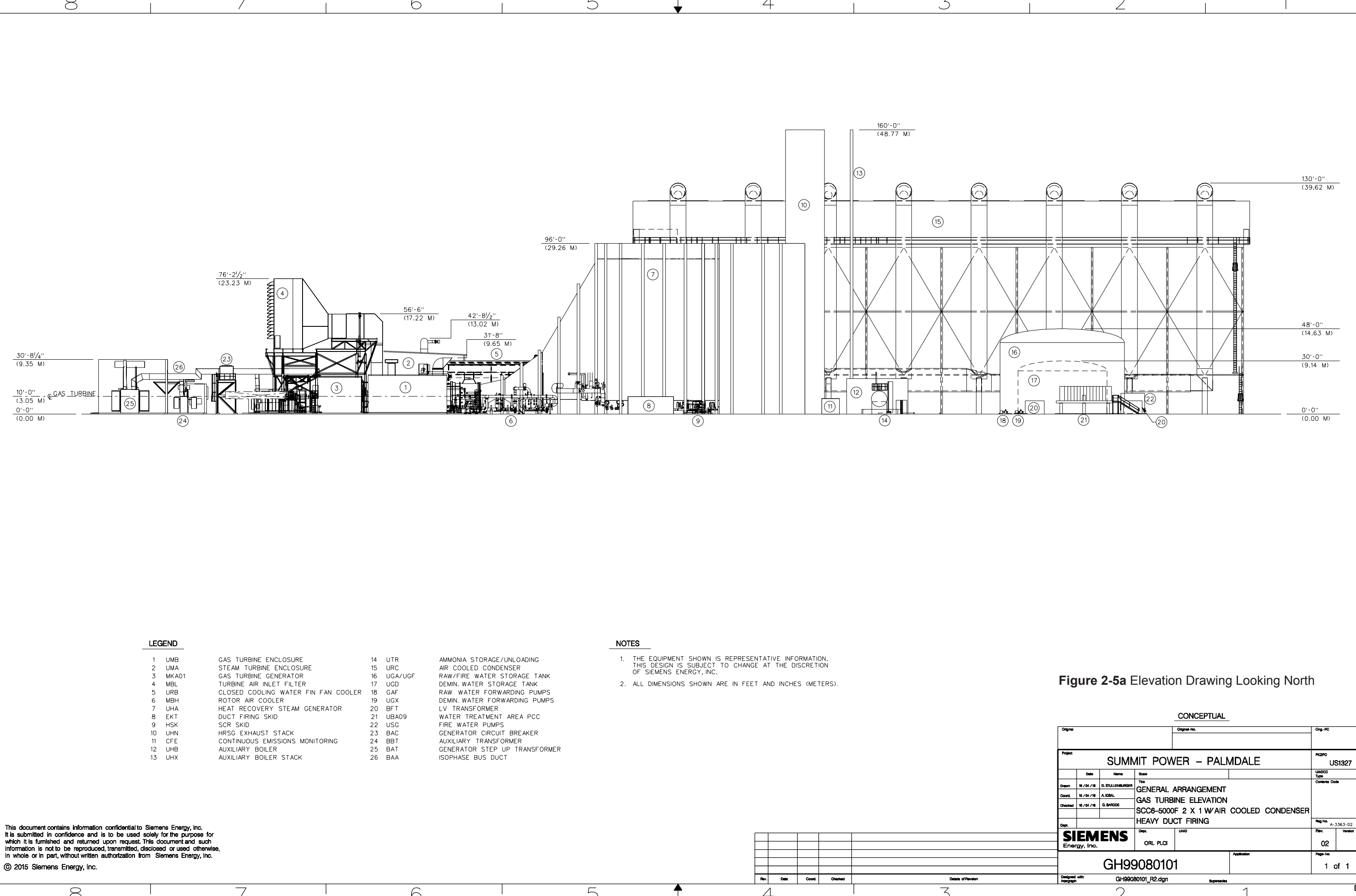
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Title: GENERAL ARRANGEMENT		US1327
Drawn: 10/16/15	D. ENLICHENBURGER	LMODD Type
Coord: 10/16/15	A. 100M	Contents Code
Checked: 10/16/15	G. S. HODGE	
Dep: SIEMENS Energy, Inc.	Dep: ORL PLCI	App: LMOD
GH99110101		Page No: 1 of 1
Designed with: GH99110101_R1.dgn		Supersedes: 1

FIGURE 2-3 PLOT PLAN





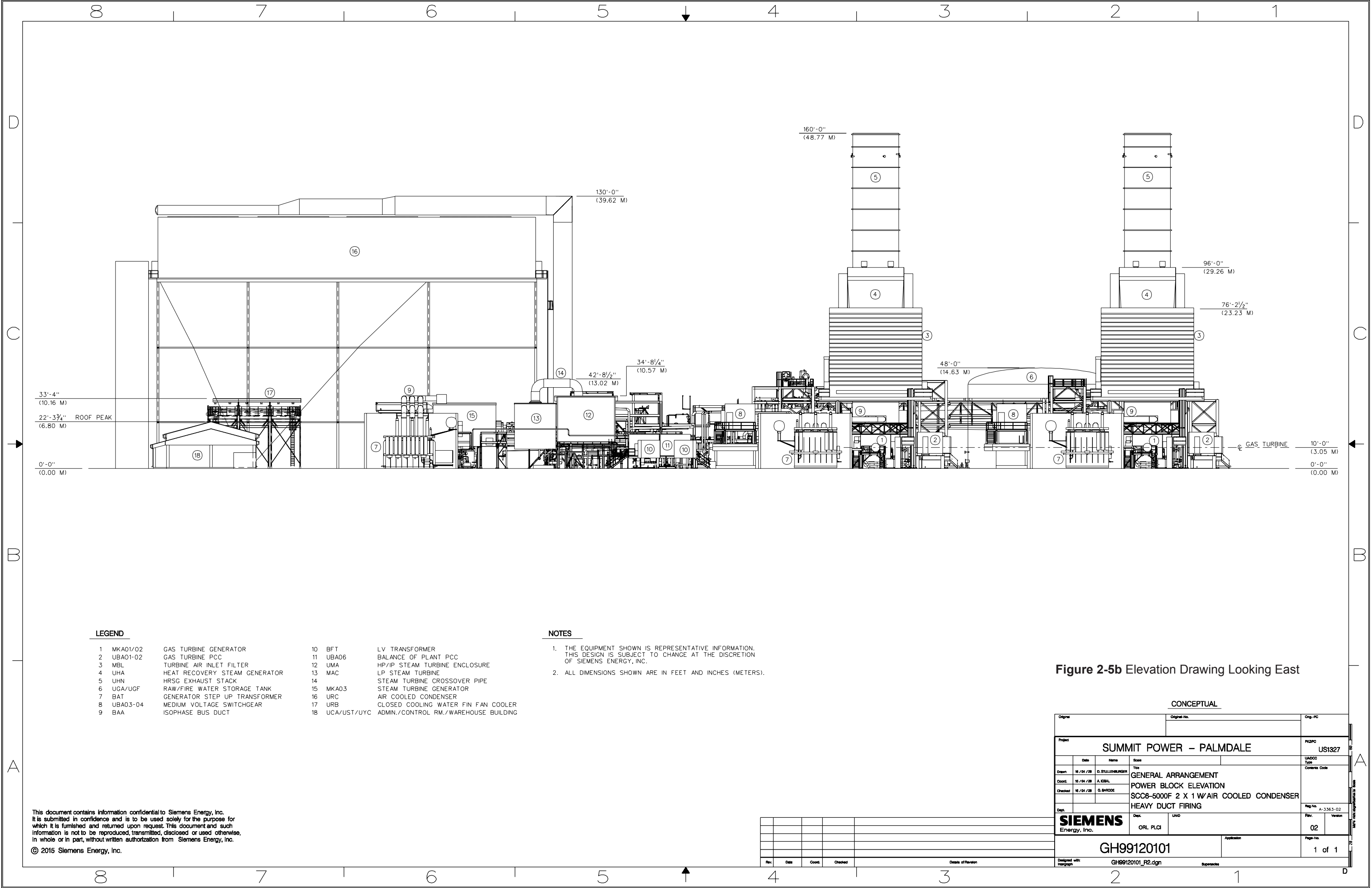




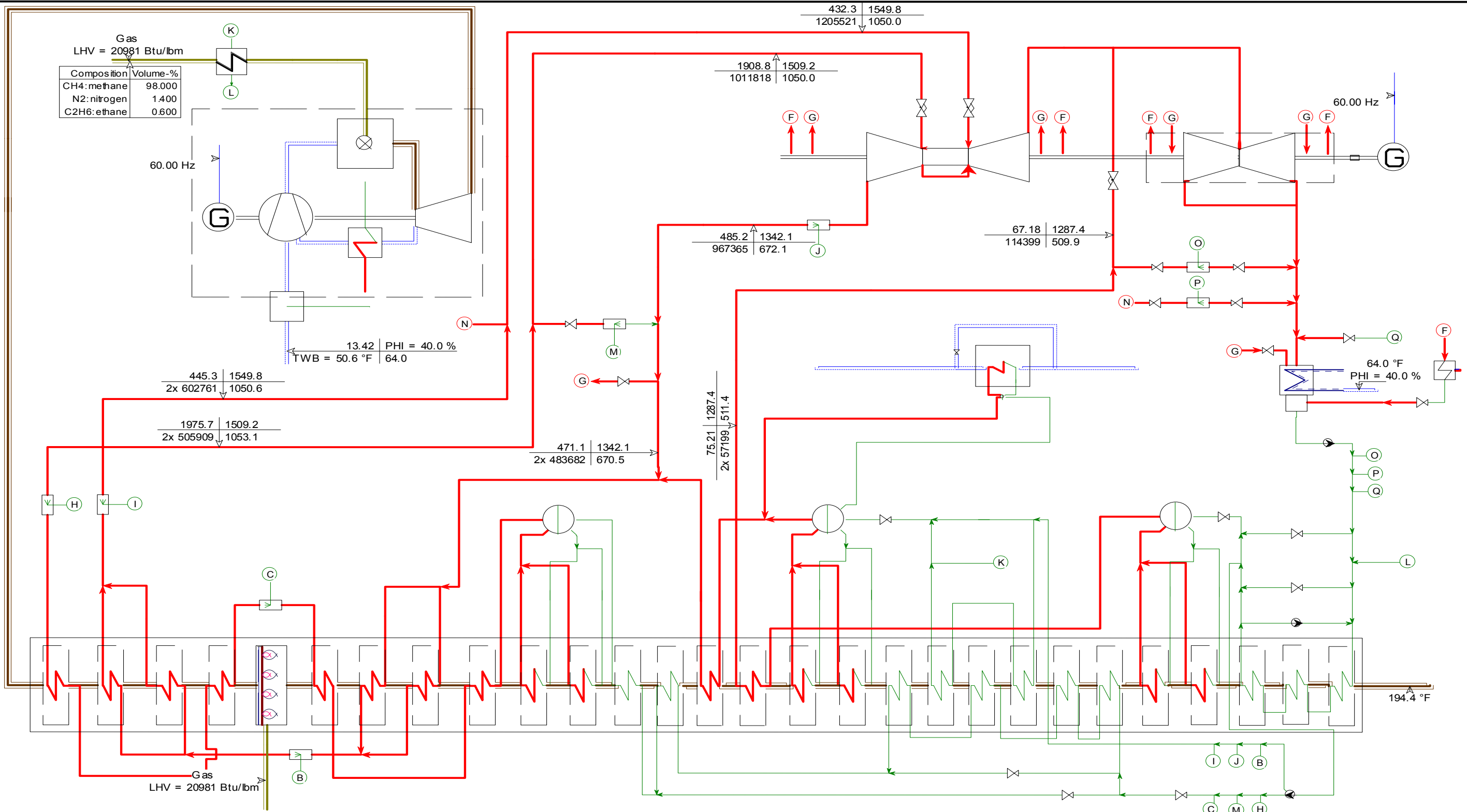
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Net Power = 643,600 kW  
Net Heat Rate = 6,110 Btu/kWhr  
Gross GT Power = 428,500 kW  
Gross ST Power = 231,800 kW  
Aux Loads = 16,700 kW

Working Sheet

psia | Btu/lbm  
lbm/h | °F (X)  
all pressures are absolute  
pressure..psia  
temperature..°F  
enthalpy..Btu/lbm  
mass flow..lbm/h  
atmospheric humidity..%

Water/Steam Property Functions: IAPWS-IF97

Summit Palmdale

SCC6-5000F 2x1 ACC

Case 10: 64/40-FG-OFF-100-2x1

Heat Flow Diagram

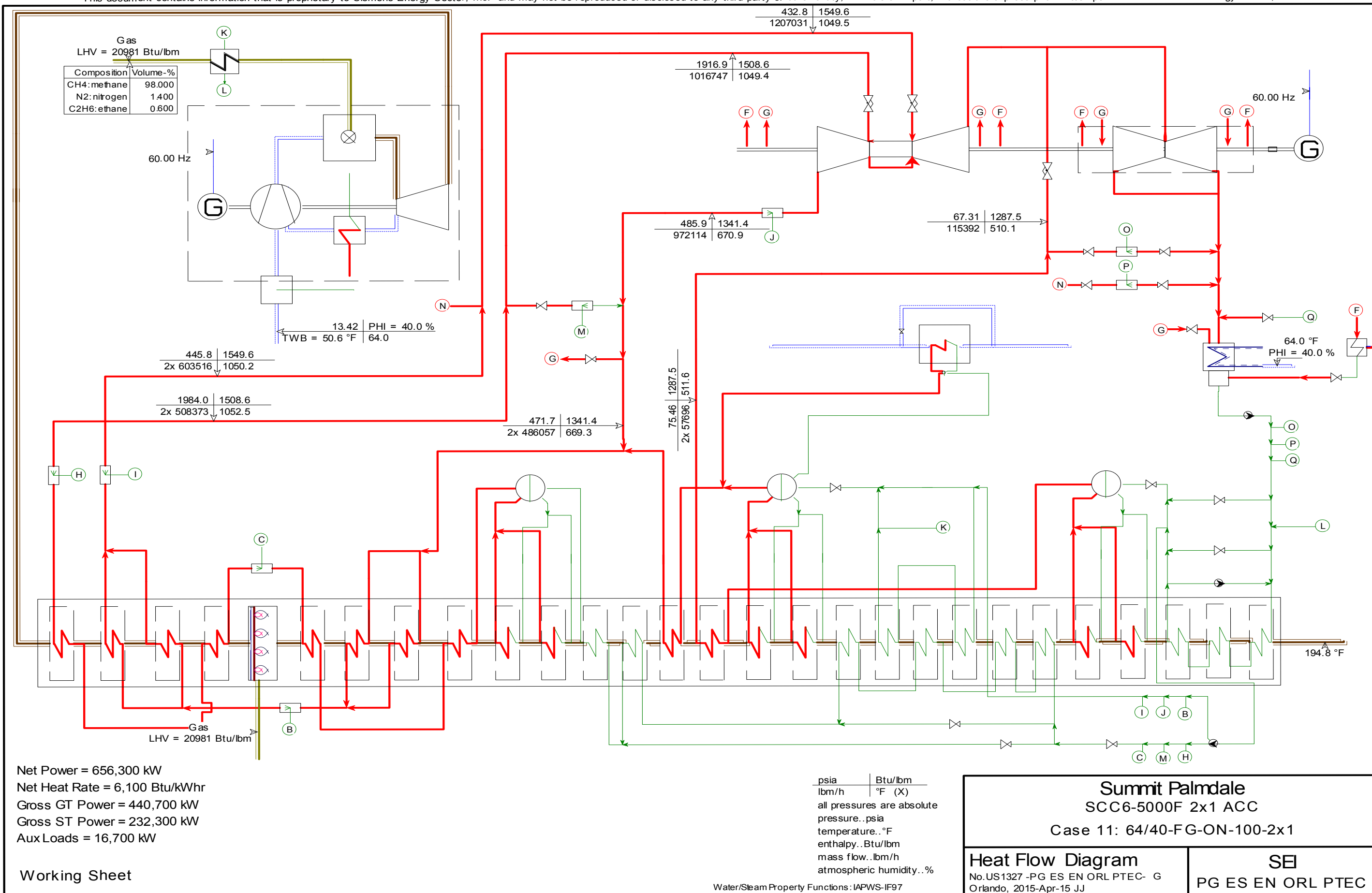
No.US1327 -PG ES EN ORL PTEC- G

Orlando, 2015-Apr-16 JJ

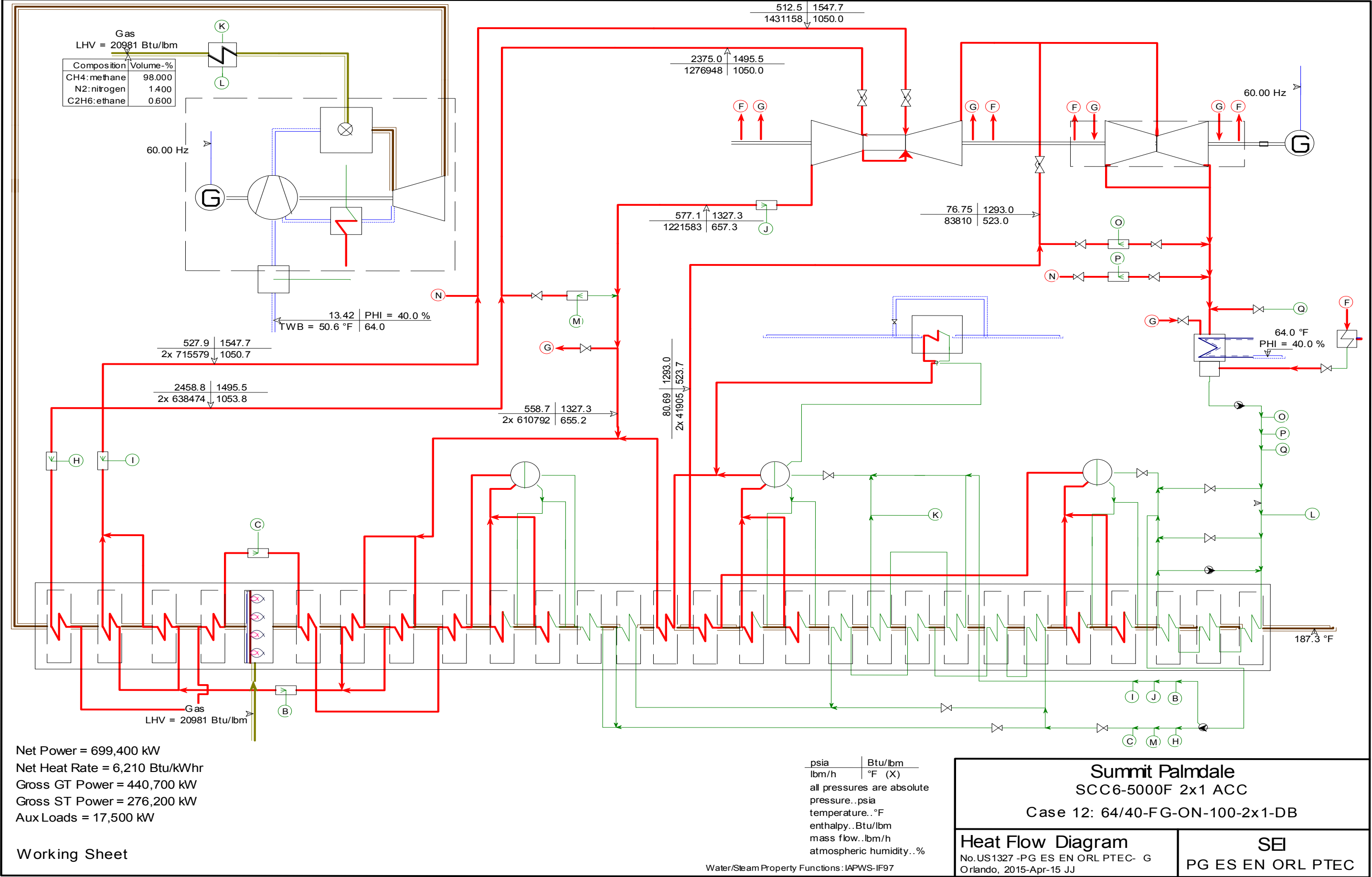
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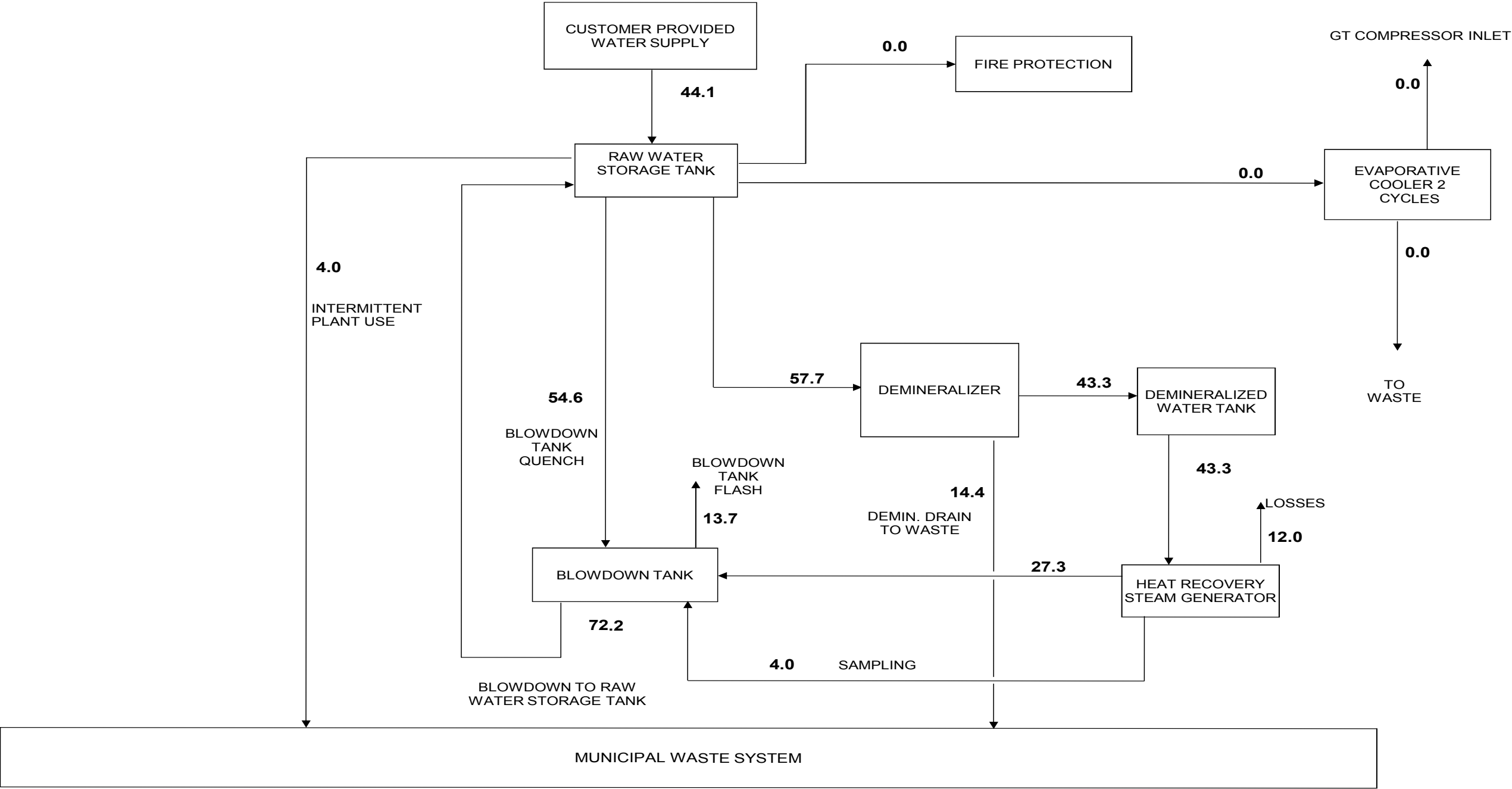
PG ES EN ORL PTEC











- Notes:
- 1. Data is preliminary, and may change upon plant design, quality of water treatment, and plant operation.
  - 2. Values are for information only, and do not represent guaranteed values.
  - 3. Values are for steady - state conditions only and so are not accurate for non-normal operating conditions such as transients, start-up/shut down, steam blows, fire suppression, etc.
  - 4. Siemens scope is not defined, and does not include consumption for other systems outside of Siemens scope of supply.
  - 5. Water Balance is based upon the customer water supply meets the Siemens Water Quality Specification.
  - 6. Units are gpm.

**PRELIMINARY USE ONLY  
SCOPE NOT DEFINED**

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DATE :		Project :	Summit Palmdale
4/15/2015		SIEMENS	Siemens Energy Inc. A Siemens Company
ENGINEER :		WATER BALANCE DIAGRAM	
Middleton		Case 10: 64/40-FG-OFF-100-2x1	
APPROVED BY :			
A Planeta			
LOCATION :			
ORL			
CUST NO.			
		PAGE 1 OF 1	

FIGURE 2-7a WATER BALANCE DIAGRAM



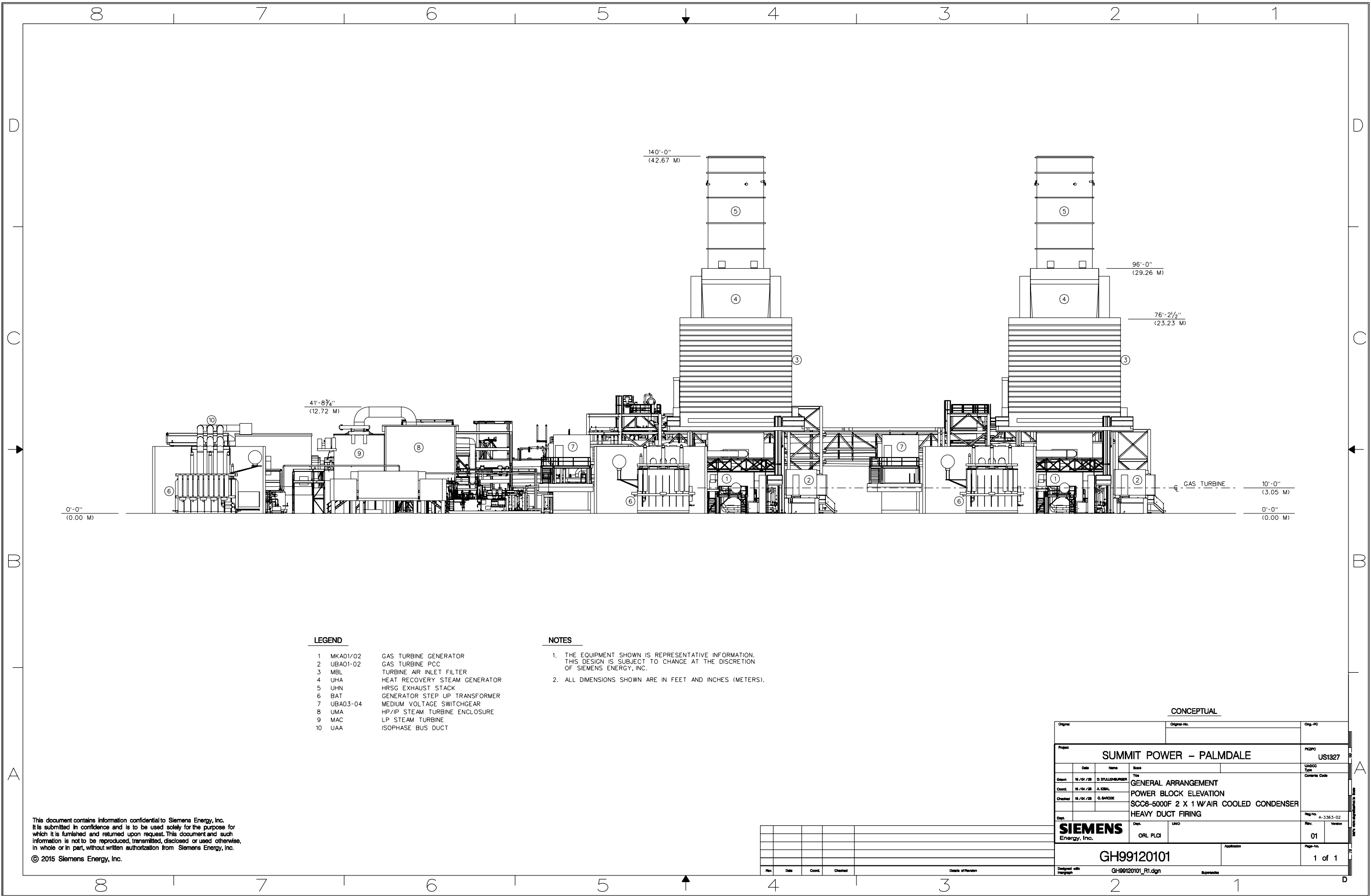
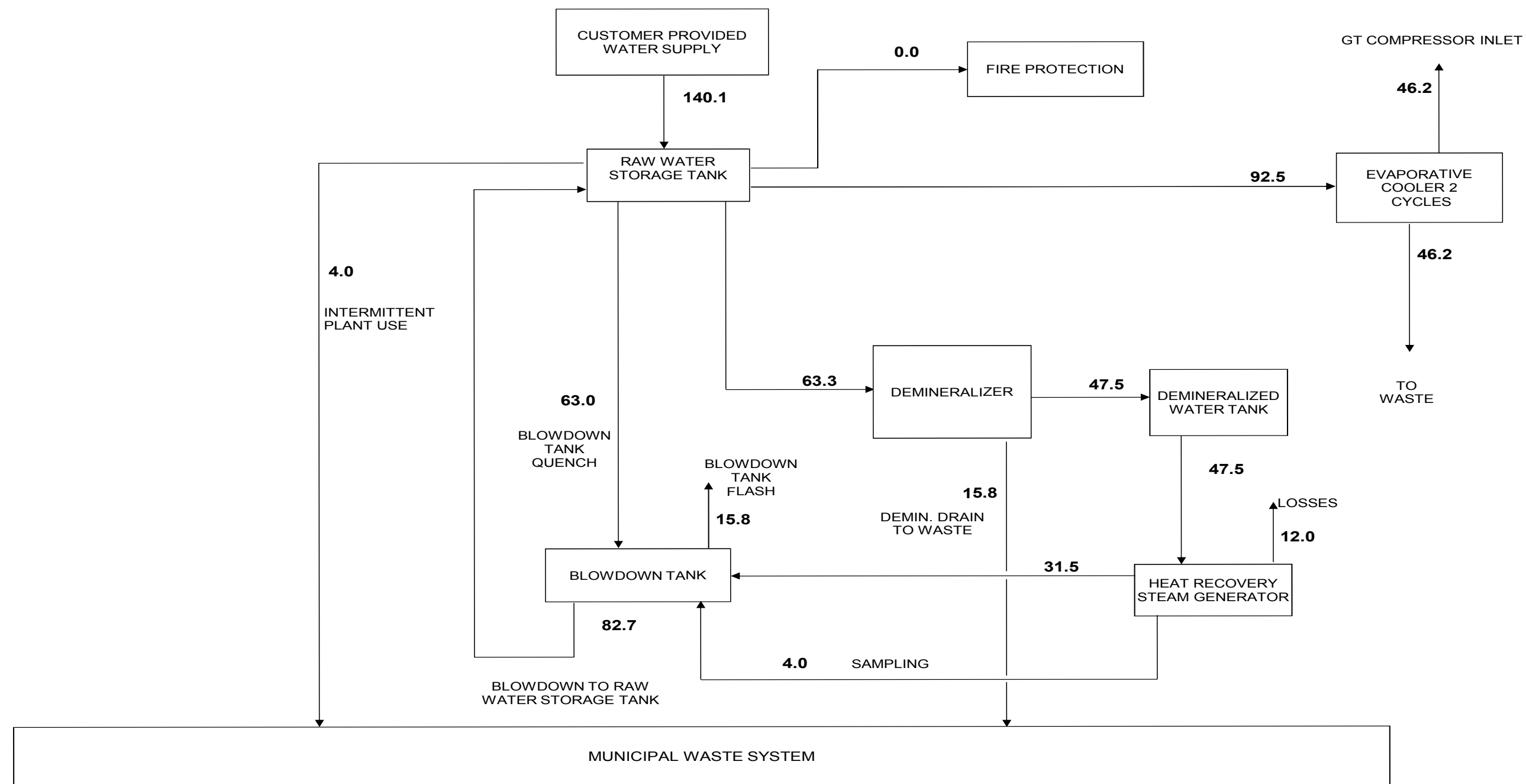


FIGURE 2-7b WATER BALANCE DIAGRAM



- Notes:
- 1. Data is preliminary, and may change upon plant design, quality of water treatment, and plant operation.
  - 2. Values are for information only, and do not represent guaranteed values.
  - 3. Values are for steady - state conditions only and so are not accurate for non-normal operating conditions such as transients, start-up/shut down, steam blows, fire suppression, etc.
  - 4. Siemens scope is not defined, and does not include consumption for other systems outside of Siemens scope of supply.
  - 5. Water Balance is based upon the customer water supply meets the Siemens Water Quality Specification.
  - 6. Units are gpm.

**PRELIMINARY USE ONLY**  
**SCOPE NOT DEFINED**

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Project : Summit Palmdale	
Siemens Energy Inc.	
A Siemens Company	
DATE : 4/15/2015	SIEMENS
ENGINEER : Middleton	WATER BALANCE DIAGRAM
APPROVED BY : A Planeta	Case 12: 64/40-FG-ON-100-2x1-DB
LOCATION : ORL	
CUST NO.	PAGE 1 OF 1

FIGURE 2-7c WATER BALANCE DIAGRAM



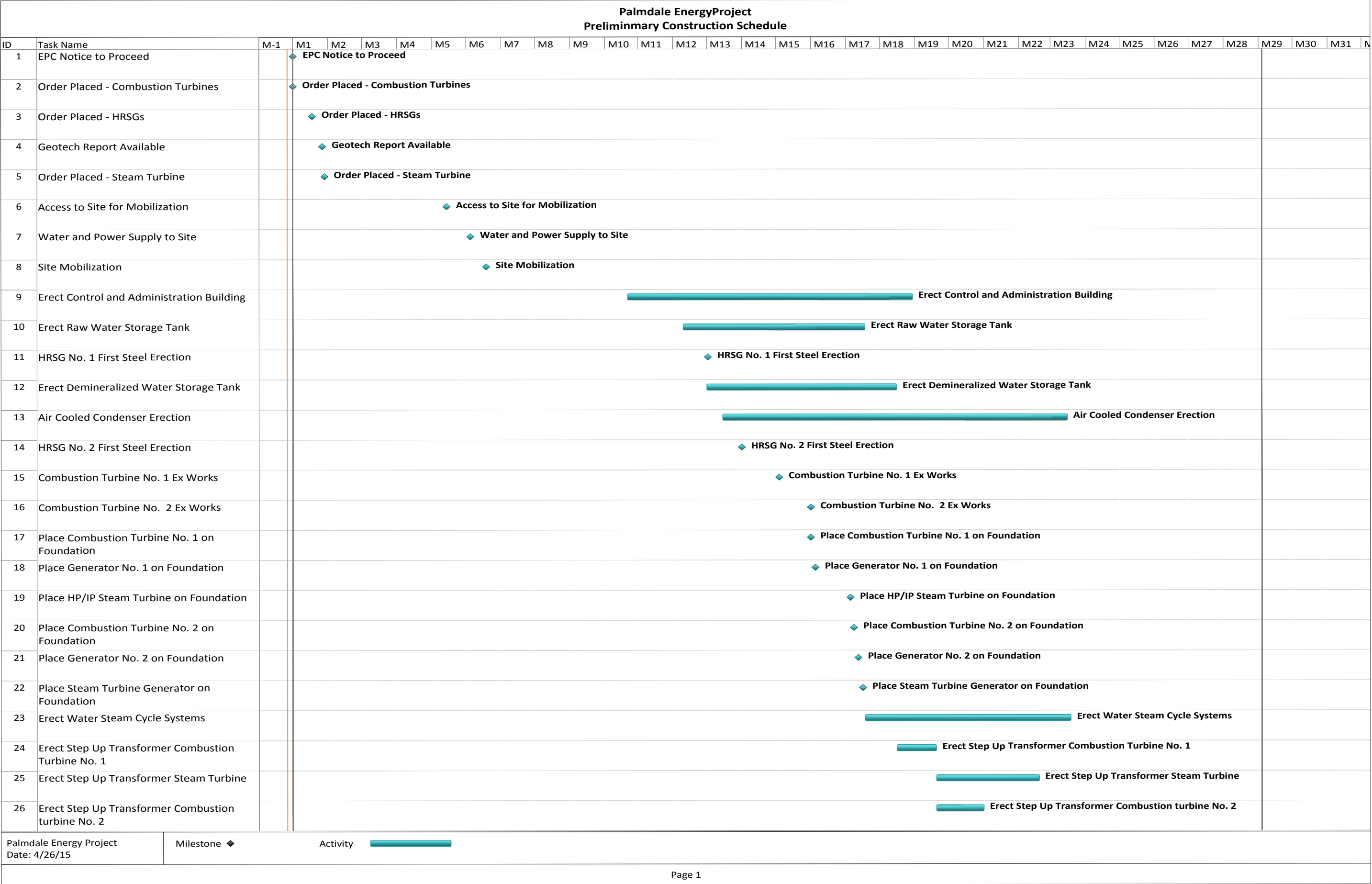


FIGURE 2-8 PRELIMINARY CONSTRUCTION SCHEDULE

Palmdale EnergyProject Preliminmary Construction Schedule																																		
ID	Task Name	M-1	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27	M28	M29	M30	M31	M32
27	Demineralized Water Available																					◆ Demineralized Water Available												
28	Erect Feedwater Pumps																					■ Erect Feedwater Pumps												
29	Backfeed Combustion Turbine No. 1																					◆ Backfeed Combustion Turbine No. 1												
30	Turning Gear Combustion Turbine No. 1																					◆ Turning Gear Combustion Turbine No. 1												
31	Backfeed Combustion Turbine No. 2																					◆ Backfeed Combustion Turbine No. 2												
32	Boiler Hydro HRSG No. 1																					◆ Boiler Hydro HRSG No. 1												
33	Turning Gear Combustion Turbine No. 2																					◆ Turning Gear Combustion Turbine No. 2												
34	Boiler Hydro HRSG No. 2																					◆ Boiler Hydro HRSG No. 2												
35	Chemical Cleaning/Flushing HRSG No. 1																					◆ Chemical Cleaning/Flushing HRSG No. 1												
36	Turning Gear for Steam Turbine																					◆ Turning Gear for Steam Turbine												
37	Fuel Gas Available to Site																					◆ Fuel Gas Available to Site												
38	Chemical Cleaning/Flushing HRSG No. 2																					◆ Chemical Cleaning/Flushing HRSG No. 2												
39	Chemical Cleaning Restoration																					◆ Chemical Cleaning Restoration												
40	HRSG No. 1 Erection Complete																					HRSG No. 1 Erection Complete ◆												
41	HRSG No. 1 Ready for Hot Gas																					HRSG No. 1 Ready for Hot Gas ◆												
42	1st Ignition Combustion Turbine No. 1																					1st Ignition Combustion Turbine No. 1 ◆												
43	1st Synchronization Combustion Turbine Generator No. 1																					1st Synchronization Combustion Turbine Generator No. 1 ◆												
44	HRSG No. 2 Erection Complete																					HRSG No. 2 Erection Complete ◆												
45	HRSG No. 2 Ready for Hot Gas																					HRSG No. 2 Ready for Hot Gas ◆												
46	1st Ignition Combustion Turbine No. 2																					1st Ignition Combustion Turbine No. 2 ◆												
47	1st Synchronization Combustion Turbine Generator No. 2																					1st Synchronization Combustion Turbine Generator No. 2 ◆												
48	First Steam to Steam Turbine																					First Steam to Steam Turbine ◆												
49	Begin Plant Performance Test																					Begin Plant Performance Test ◆												
50	Reliability Run Combined Cycle Power Plant																					Reliability Run Combined Cycle Power Plant ◆												
51	Commercial Operation																					Commercial Operation ◆												
Palmdale Energy Project Date: 4/26/15		Milestone ◆		Activity ■																														
Page 2																																		

**FIGURE 2-8 PRELIMINARY CONSTRUCTION SCHEDULE (CONT.)**



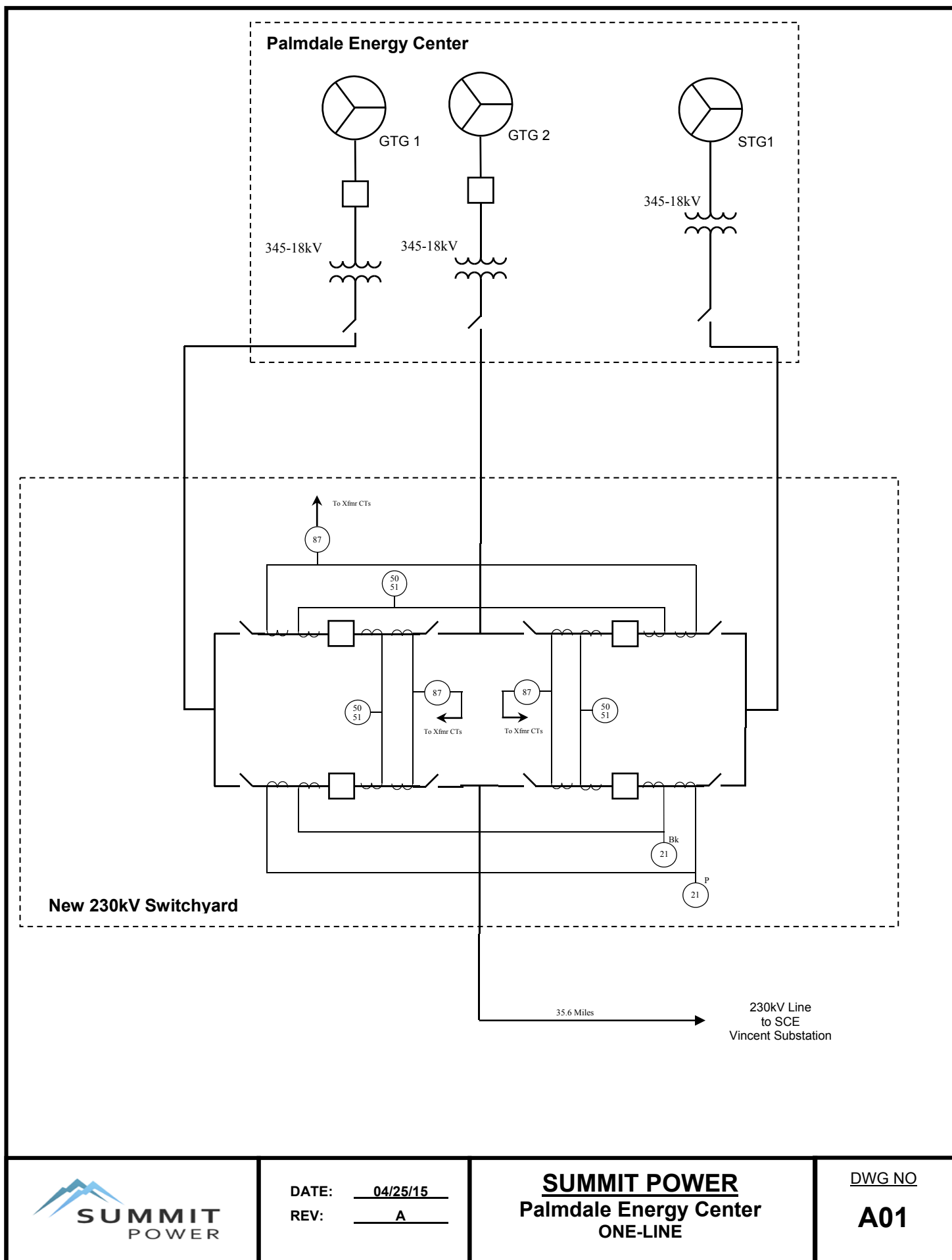


FIGURE 3-1a SINGLE-LINE DIAGRAM, SWITCHYARD

