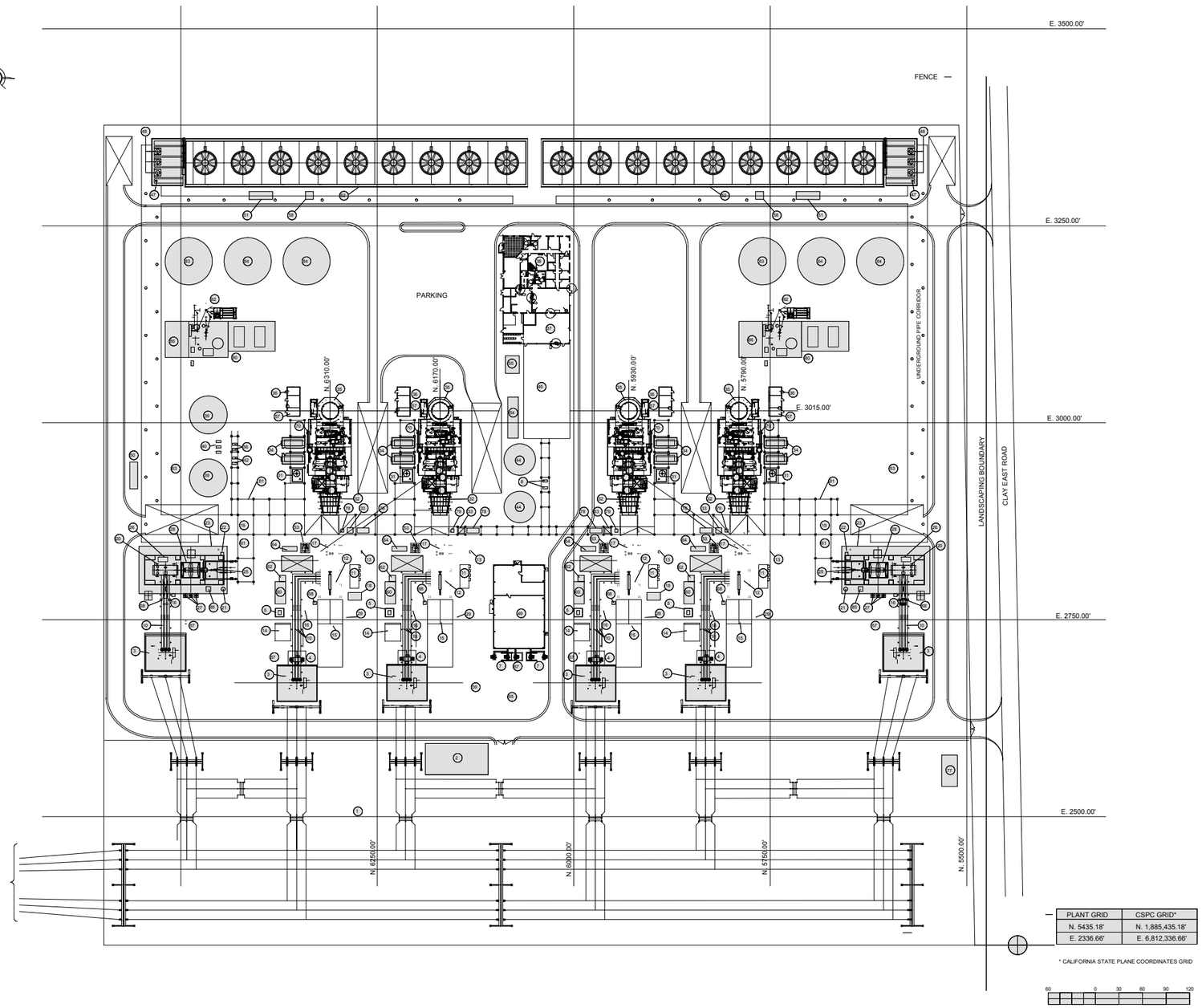
# PROJECT DESCRIPTION - FIGURE 3

Cosumnes Power Plant - Site Plan




| PLANT GRID | CSPC GRID* |
|---|---|
| N. 5435.18' | N. 1,885,435.18' |
| E. 2336.66' | E. 6,812,336.66' |

* CALIFORNIA STATE PLANE COORDINATES GRID

60 0 30 60 90 120

SCALE

1" = 60'-0"

1. ELECTRICAL SWITCHYARD AREA
2. SWITCHYARD CONTROL BUILDING
3. GENERATOR STEP-UP TRANSFORMER
4. UNIT AUX. TRANSFORMER (18/4.16kV)
5. EXCITATION TRANSFORMER
6. NOT USED
7. 4160V/480V TRANSFORMERS
8. DEMINERALIZED WATER PUMPS
9. NOT USED
10. ISO-PHASE BUS DUCT
11. PACKAGED ELECTRICAL AND ELECTRONIC CONTROL CENTER (PEECC)
12. CT GENERATOR
13. CT AUXILIARY PACKAGE
14. ISOLATION TRANSFORMER
15. GAS TURBINE AIR INLET FILTER
16. GENERATOR BREAKER
17. COMBUSTION TURBINE (CT)
18. COMPRESSOR WATER WASH SKID
19. STG ELECTRICAL EQUIPMENT ENCLOSURE
20. STEAM TURBINE GENERATOR
21. STG LUBE OIL
22. GLAND STEAM SKID
23. GLAND STEAM CONDENSER
24. NOT USED
25. STEAM TURBINE (ST)
26. STEAM JET AIR/HOGGER/SJAE
27. CONDENSATE PUMPS
28. CONDENSER
29. EVAPORATIVE COOLER
30. NOT USED
31. HRSG BLOWDOWN TANK
32. HEAT RECOVERY STEAM GENERATOR (HRSG)
33. FUEL GAS DEW POINT HEATER
34. BOILER FEED PUMPS
35. HRSG STACK
36. CEMHR DPU SHELTER
37.
38. ADMINISTRATION AND CONTROL ROOM
39. SERVICE/FIRE WATER STORAGE TANK
40. FIRE PUMPS
41. NOT USED
42. SERVICE WATER BOOSTER PUMPS
43. NOT USED
44. DEMINERALIZED WATER STORAGE TANK
45. WATER TREATMENT BUILDING
46. NOT USED
47. AUXILIARY COOLING WATER PUMP
48. CIRCULATING WATER PUMPS
49. ELECTRICAL EQUIPMENT BLDG
50. OIL/WATER SEPARATOR
51. COOLING TOWER ELECTRICAL EQUIPMENT ENCLOSURE
52. COOLING TOWER
53. CT DRAIN SUMP
54. LEACH FIELD
55. SEPTIC TANK
56. SERVICE WATER PUMPS
57. FIRE PROTECTION DELUGE HOUSE
58. COOLING TOWER CHEMICAL STORAGE
59. CO2 SKID PURGE
60. LCI/GENERATOR EXCITATION COMPARTMENT
61. CLOSED LOOP AUX. COOLING WATER HEAT EXCHANGER AND PUMPS
62. DC LINK REACTOR
63. AMMONIA STORAGE TANKS
64. CO2 FIRE PROTECTION
65. HYDROGEN TANKS
66. NOT USED
67. EMERGENCY FEED TRANSFORMER
68. NEUTRAL GROUNDING TRANSFORMER/RESISTOR CUBICLE
69. NOT USED
70. SCR SKID
71. NOT USED
72. NOT USED
73. NOT USED
74. NOT USED
75. NOT USED
76. NOT USED
77. GAS REGULATOR AND COMPRESSOR STATION
78. FUEL GAS PERFORMANCE HEATER
79. FUEL GAS SCRUBBER
80. ZERO LIQUID DISCHARGE BUILDING
81. PIPE RACK
82. BRINE CONCENTRATOR
83. DISTILLATE STORAGE TANK
84. BRINE HOLDING TANKS
85. OIL CONDITIONER SKID
86. SOLID HANDLING BUILDING

UNIT DESIGNATIONS

| | |
|---|---|
| 0 | COMMON |
| 1 | STEAM TURBINE, GENERATOR & ASSOCIATED EQUIPMENT |
| 2 | H.R.S.G., CT & ASSOCIATED EQUIPMENT |
| 3 | H.R.S.G., CT & ASSOCIATED EQUIPMENT |

0 1,750

Feet

PROJECT DESCRIPTION

AUGUST 2002

**CALIFORNIA ENERGY COMMISSION, SYSTEMS ASSESSMENT & FACILITIES SITING DIVISION, AUGUST 2002**

SOURCE: SMUD 2002ae, Figure 2.2-1R2