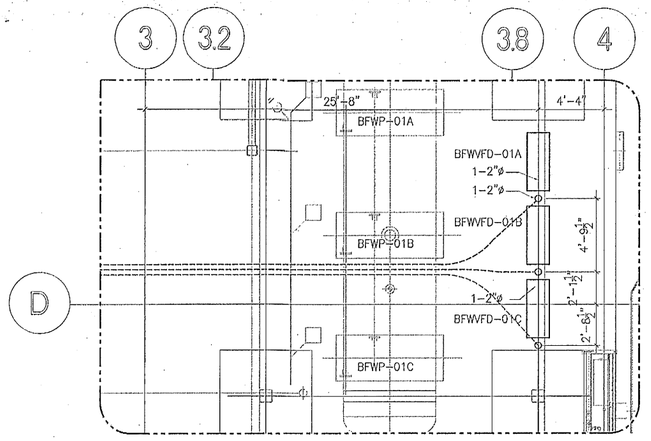
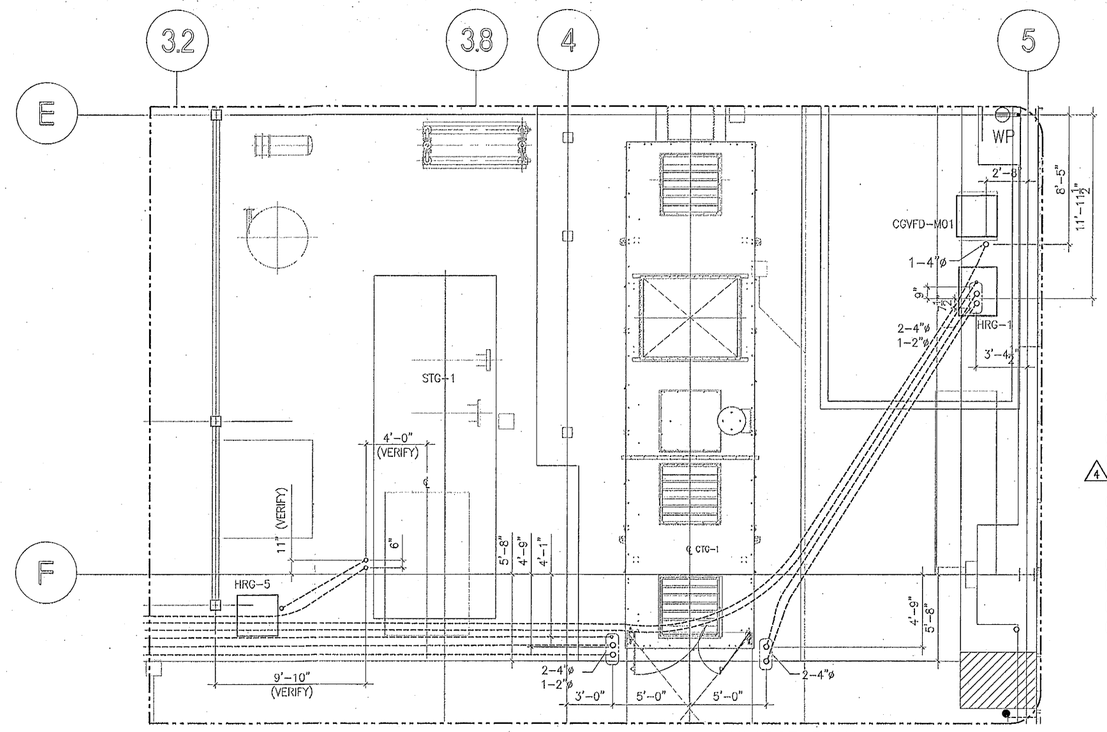


ENLARGE PLAN
4 BFW PUMP AREA
E9.04 SCALE: 1/4" =1'-0"



ENLARGE PLAN
1 CTG-01 STUB-OUT
E9.04 SCALE: 1/4" =1'-0"

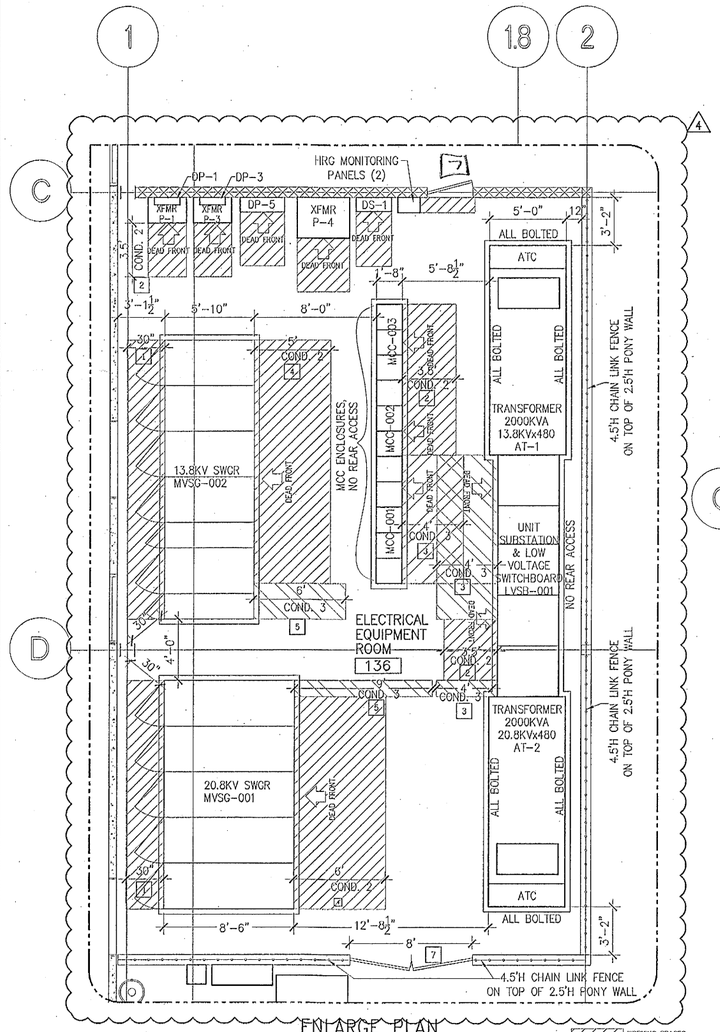
GENERAL NOTES:

1. ELECTRICAL CONDUIT STUB-UP LOCATIONS MAY CHANGE DUE TO LACK OF CERTIFIED VENDOR DRAWINGS. REFER TO ELECTRICAL DRAWING E3.01 FOR DUCTBANK AND TRENCH LAYOUT.
2. ALL DIMENSIONS ARE TO BE VERIFIED IN ACCORDANCE WITH CERTIFIED VENDOR DRAWINGS. PRIOR TO STUB-UP ROUGH-IN INSTALLATION AND POURING OF HOUSEKEEPING PAD.
3. ALL STUB-UPS TO BE RIGID GALVANIZED STEEL CONDUITS AND TO BE EXTENDED OF 4IN. MINIMUM ABOVE FIN. FLOOR LINE WITH THREADED END CONNECTION.
4. ALL SPARE CONDUITS ARE TO BE CAPPED AND PROVIDED WITH PULL ROPE FOR FUTURE INSTALLATION.
5. SIZES OF VFD's (VARIABLE FREQUENCY DRIVES) ARE BASED ON SIEMENS SED2 MODEL.

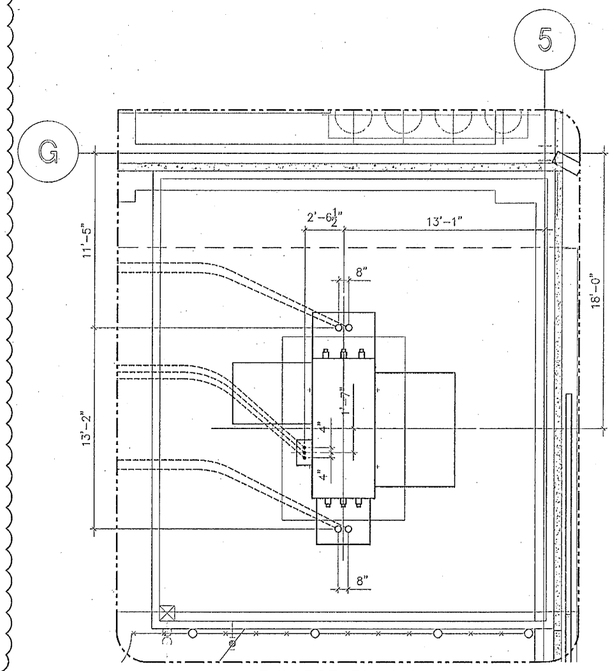
KEY NOTES:

1. REFER TO NEC 110.34 EXCEPTION. 30" REAR ACCESS TO WORK ON DE-ENERGIZED PARTS ON THE BACK OF ENCLOSED EQUIPMENT.
2. REFER TO NEC TABLE 110.26(A)(1) CONDITION 2, WORKING SPACE = 3.5'.
3. REFER TO NEC TABLE 110.26(A)(1) CONDITION 3, WORKING SPACE = 4'.
4. REFER TO NEC TABLE 110.34(A) CONDITION 2, WORKING SPACE = 5' FOR 13.8KV AND 6' FOR 20.8KV.
5. REFER TO NEC TABLE 110.34(A) CONDITION 3, WORKING SPACE = 6' FOR 13.8KV AND 9' FOR 20.8KV.
6. REFER TO 10.26(C)(2) DOOR 36"W x 6.5'H WITH PANIC BAR HARDWARE.
7. REFER TO 10.26(C)(2) FENCE DOOR 4'W x 7'H WITH ONE WAY LOCK AND PANIC HANDLE HARDWARE. Each door

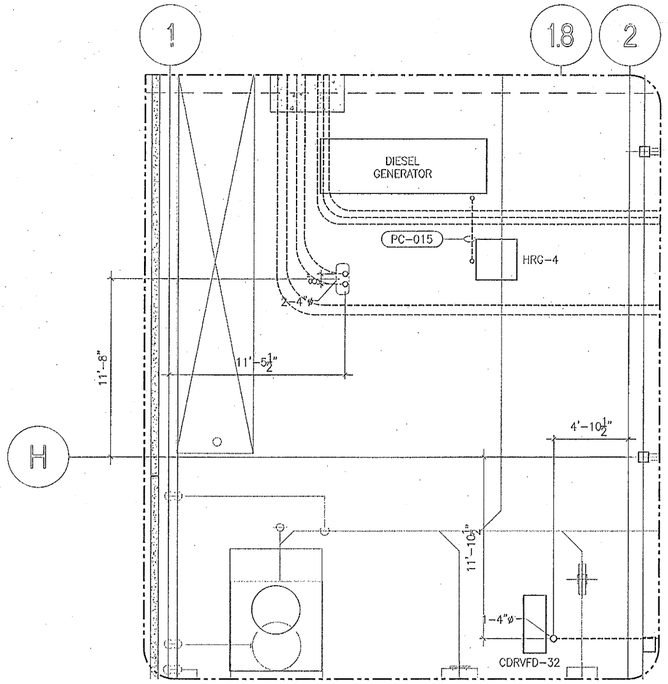
NEC. 110.26(C)(2)



ENLARGE PLAN
5 ELECTRICAL ROOM AREA
E9.04 SCALE: 1/4" =1'-0"



ENLARGE PLAN
3 TRANSFORMER AREA
E9.04 SCALE: 1/4" =1'-0"



ENLARGE PLAN
2 DIESEL GEN. AREA
E9.04 SCALE: 1/4" =1'-0"

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FEB 29 2008
DEVELOPMENT SERVICES

APPROVED
CITY OF CORVALLIS DEVELOPMENT SERVICES
1. ZONING ADMIN. _____
2. BUILDING PCV 3/24/08
3. ENGINEERING _____
4. FIRE _____
SEE ATTACHED CONDITIONS OF APPROVAL.

REVISED PLANS

FILE COPY

GRAPHIC SCALE: 1/4"= 1'-0"

No.	DESCRIPTION	BY	CHKD	APPVD.	DATE
4	ISSUED FOR WORKING SPACE REVIEW	CM	PG	KL	02-19-08
3	ISSUED FOR BID-PROCESS PLANT	RD	TMC	KL	12-19-07
2	REVISED AND RE-ISSUED FOR 90% CONSTRUCTION DOCUMENTS	RD	TMC	KL	11-16-07
1	ISSUED FOR CONSTRUCTION WITH HOLDS IN PLACE	RD	TMC	KL	08-10-07
0	ISSUED FOR PERMIT	RD	IS	DM	03-09-07

REVISION

SEAL: REGISTERED PROFESSIONAL ENGINEER 76854PE OREGON JULY 12, 2002 BRIAN LEE DAILEY — EXPIRATION DATE 12/09

CONSTRUCTION ISSUE		
DISCIPLINE	BY	DATE
DRAWN:		
CHECKED:		
ENGINEER:		
LEAD ENGINEER:		
PROJECT ENGINEER:		
PROJECT MANAGER:		

OSU Oregon State University — CUSTOMER JOB No. 1114-05

Carter&Burgess — CARTER & BURGESS, INC. JOB No. 170314.010.001.0001

OREGON STATE UNIVERSITY
Energy Center Project

TO BE MICROFILMED

SCALE: 1/4" = 1'-0" | C&B No. 170314 | DWG. No.: E9.04 | REV. 4

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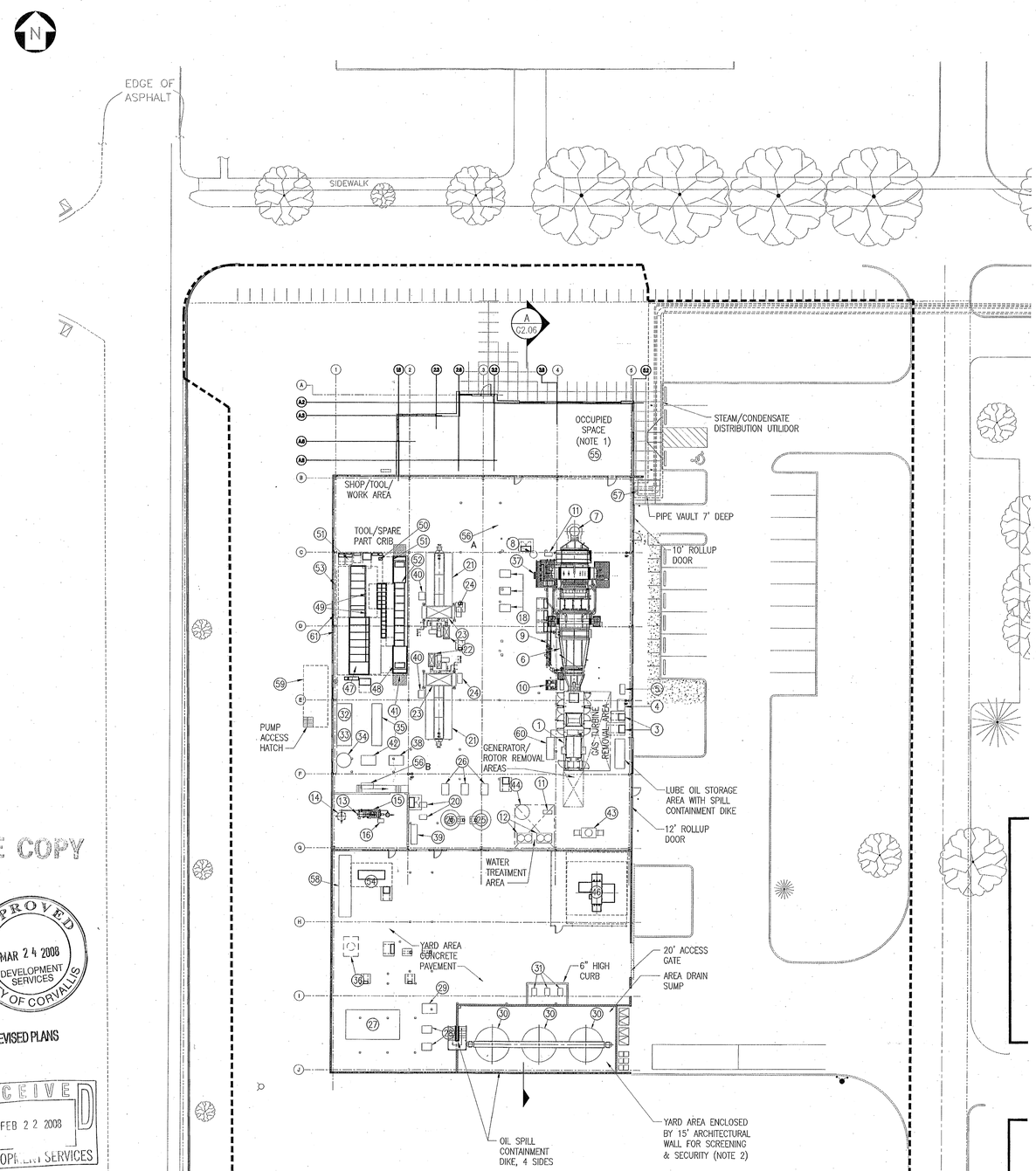

EQUIPMENT LIST

1. COMBUSTION TURBINE GENERATOR (CTG-01)
2. CTG INLET AIR FILTER (F-16)
3. GAS TURBINE START MOTOR VFD
4. CTG FIRE CYLINDER RACK
5. GAS TURBINE WATER WASH CART (PORTABLE)
6. HEAT RECOVERY STEAM GENERATOR (HRSG B-01)
7. HRSG STACK
8. CONTINUOUS BLOWDOWN TANK (V-01)
9. HRSG DUCT BURNER GAS/OIL FUEL SKID
10. HRSG SCANNER BLOWER SKID
11. DRAIN COOLER (HE-12/13)
12. WATER SOFTENER SKIDS WITH BRINE TANK (WT-01A/B, P-06A/B)
13. FUEL GAS COMPRESSOR (FGC) (C-01)
14. FGC SUCTION SCRUBBER
15. FGC DISCHARGE COALESCER VESSEL
16. FGC CONTROL PANEL
17. DEAERATOR (DA-01)
18. BOILER FEEDWATER PUMPS (P-16A/B/C)
19. CONDENSATE VACUUM VESSEL (V-03)
20. CONDENSATE VACUUM TRANSFER PUMPS (P-31A/B)
21. AUXILIARY BOILERS NO. 1 & 2 (B-02/03)
22. AUXILIARY BOILER FORCED DRAFT FANS (FN-04/05)
23. AUXILIARY BOILER STACKS
24. AUXILIARY BOILER CONTROL PANELS
25. CONDENSATE STORAGE TANKS (TNK-5A/B)
26. MAKE-UP WATER PUMPS (P-15A/B/C)
27. AUXILIARY COOLING TOWER (CT-01A/B)
28. AUXILIARY COOLING WATER PUMPS (P20A/B)
29. DUMP CONDENSER COOLING WATER PUMP (P-32)
30. FUEL OIL STORAGE TANKS (USE EXISTING IN STEAM PLANT) TNK-02A/B/C)
31. FUEL OIL TRANSFER PUMPS (P-06A/B/C)
32. AIR COMPRESSOR (C-02)
33. AFTERCOOLER (H-06)
34. AIR RECEIVER (V-02)
35. AIR DRYER WITH FILTERS (DR-01, F-08/09)
36. OILY WASTE SEPARATOR TANK
37. HRSG SAMPLE RACK (S-01)
38. EXISTING AIR COMPRESSOR (C-03)
39. WATER LAB STATION
40. AUXILIARY BOILER FUEL OIL INJECTION PUMP
41. AUXILIARY BOILER SAMPLE RACK (S-02A/B)
42. NAVAL AIR COMPRESSOR (C-04) (EXISTING W/ STEAM PLANT)
43. DUMP CONDENSER (HE-14)
44. INTERMITTANT BLOWDOWN TANK (V-06)
45. SJAE AFTER CONDENSER (HE-11)
46. STEP-UP TRANSFORMER
47. 20.8 kV SERVICE BUS
48. 13.8 kV GENERATOR BUS
49. MOTOR CONTROL CENTER
50. 480V SWITCHGEAR
51. AUXILIARY TRANSFORMERS
52. UPS & BATTERY RACK
53. BRANCH PANELS
54. DIESEL GENERATOR (DG)
55. PLANT CONTROL SYSTEM (PCS)
56. PCS INPUT/OUTPUT (I&O) & CONTROLLER CABINET, A & B UNITS
57. STEAM & CONDENSATE VAULT
58. UTILITY FUEL GAS METERING STATION
59. RUN-OFF COLLECTION SUMP W/PUMPS (TNK-07, P-07A/B)
60. CTG DUPLEX LUBE L.O. COOLERS (HE-01A/B)
61. 125 VDC BATTERY SYSTEM

NOTES:

1. REFER TO ARCHITECTURAL SKETCHES FOR OCCUPIED SPACE DETAILS AND WALL OPENINGS.
2. REFER TO ARCHITECTURAL SKETCHES AND INFORMATION FOR YARD WALL DETAILS.
3. REFER TO ARCHITECTURAL SKETCHES AND INFORMATION FOR LEVEL DETAILS.
4. THIS DRAWING REPRESENTS A LISTING OF EQUIPMENT TO BE LOCATED WITHIN THE BUILDING
5. REFER TO PROJECT DRAWINGS P2.03 AND P2.04 FOR EQUIPMENT LOCATION.

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APPROVED MAR 24 2008 DEVELOPMENT SERVICES CITY OF CORVALLIS

REVISED PLANS

RECEIVED FEB 22 2008 DEVELOPMENT SERVICES

Oh Partners Architects, Inc.
Date: 2-22-08
By: [illegible]

☐ Approved ☐ Approved as Noted ☐ Revise and Resubmit ☐ Rejected ☐ Submit as Corrected

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GRAPHIC SCALE: 1" = 20'-0"

No.	DESCRIPTION	BY	CHKD	APPVD.	DATE
	REVISION				

No.	DESCRIPTION	BY	CHKD	APPVD.	DATE
0	ISSUED FOR BID	CC	JB	RH	02-12-08
	REVISION				

SEAL: REGISTERED PROFESSIONAL ENGINEER 79005PE OREGON March 13, 2007 JOSEPH C. BONNER
EXPIRES: 12/31/2007

CONSTRUCTION ISSUE		
DISCIPLINE	BY	DATE
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ENGINEER:		
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PROJECT ENGINEER:		
PROJECT MANAGER:		

OSU Oregon State UNIVERSITY
CUSTOMER JOB No. 1114-05

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CONSULTANT JOB No. Ohpd: 50006

OREGON STATE UNIVERSITY
Energy Center Project

GENERAL ARRANGEMENT

SCALE: 1" = 20'-0" | C&B No. 170314 | DWG. No.: G2.01 | REV. 0

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