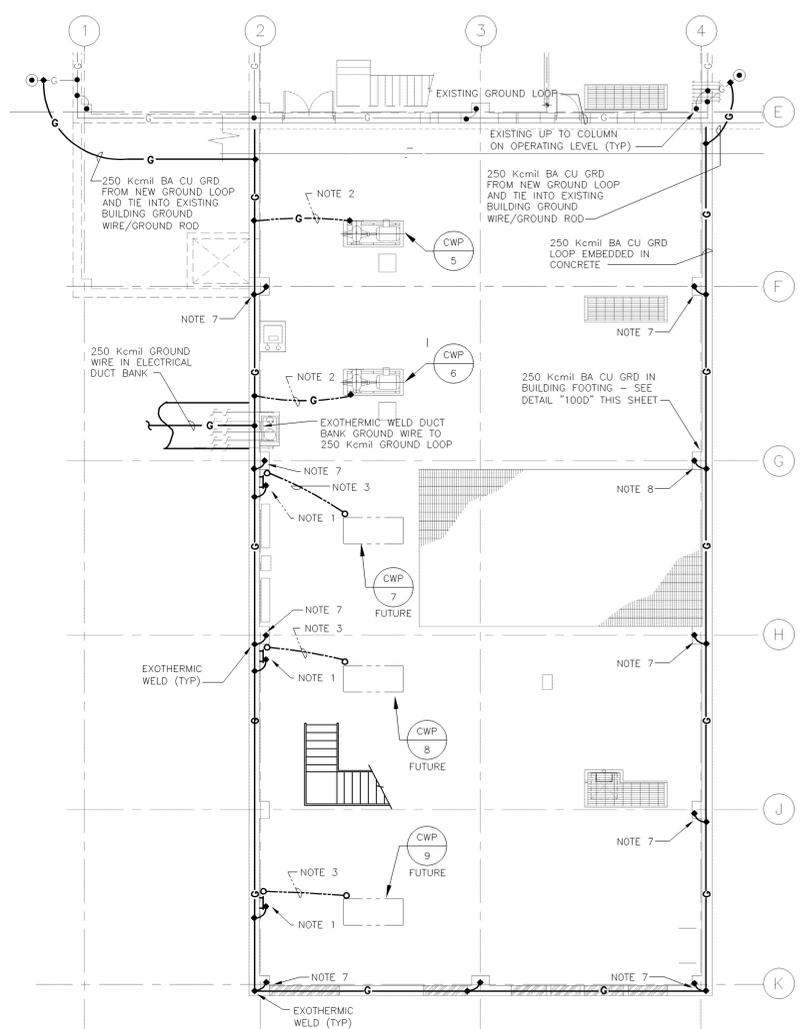
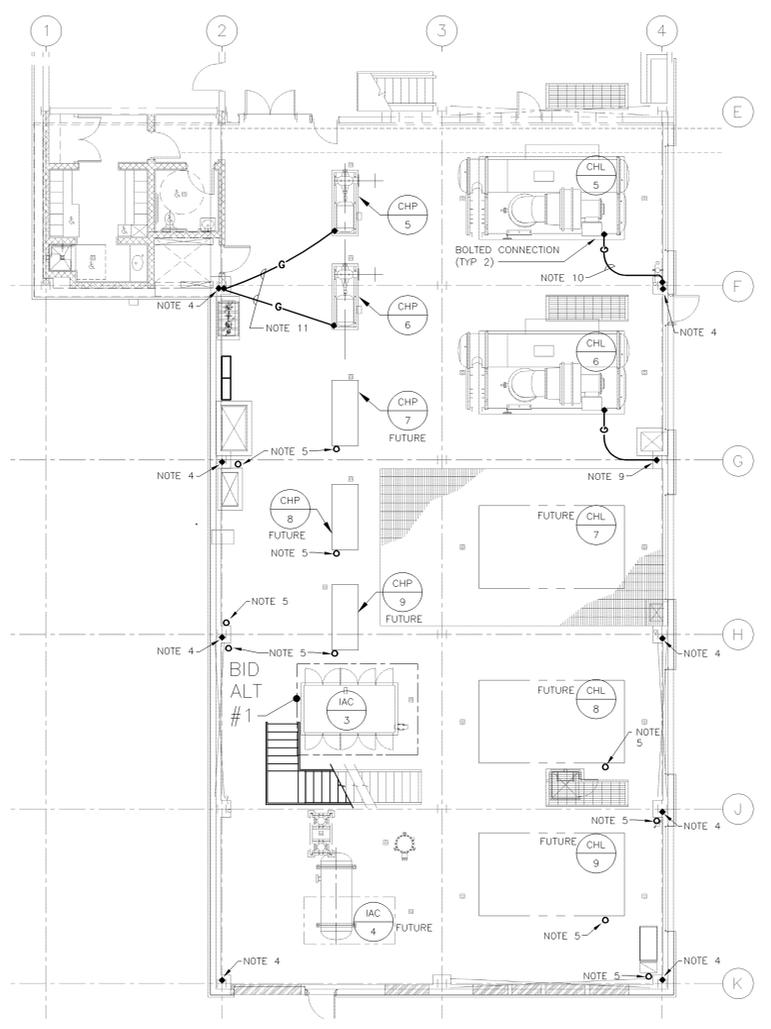


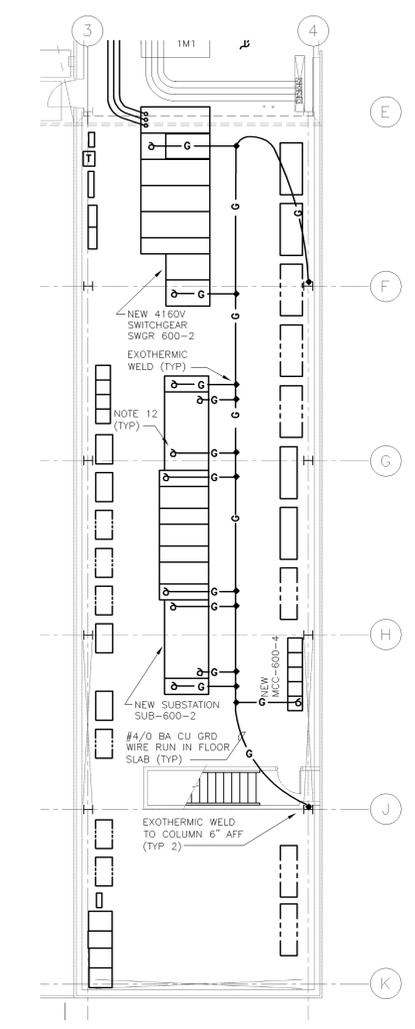
Date (mm dd yyyy)	Issued For	Rev.
07-31-2008	TITLE II DESIGN 90% REVIEW SUBMITTAL	E
08-25-2008	TITLE II DESIGN 100% OWNER REVIEW	F
10-17-2008	TITLE II CONSTRUCTION BID ISSUE	G
02-19-2009	TITLE II CONSTRUCTION BID ISSUE	D



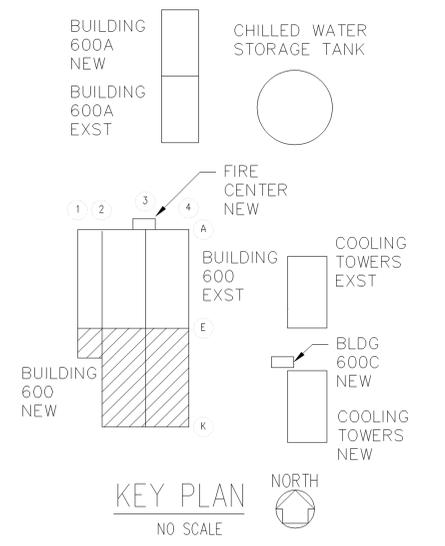
100C BUILDING 600 PIPE TUNNEL
GROUNDING PLAN ELEV 64'-0"
E-100 1/8" = 1'-0"



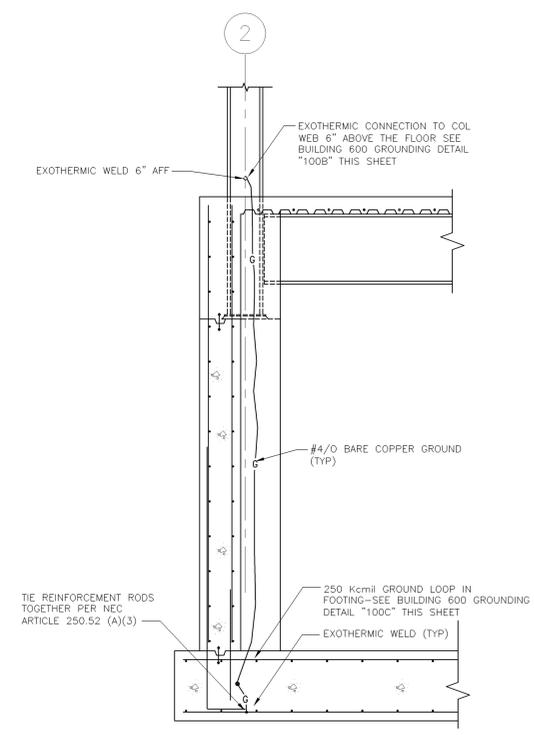
100B BUILDING 600 OPERATING FLOOR
GROUNDING PLAN ELEV 77'-0"
E-100 1/8" = 1'-0"



100A BUILDING 600 ELECTRICAL MEZZ
GROUNDING PLAN ELEV 97'-0"
E-100 1/8" = 1'-0"



KEY PLAN
NO SCALE



100D BUILDING 600
COLUMN GROUNDING DETAIL
NTS

NOTES

- 1/4" x 2" x 18" LONG COPPER GROUND BAR MOUNTED 18" AFF. #4/0 BARE COPPER GROUND FROM 250 KCMIL GROUND LOOP TO GROUND BAR. EXOTHERMIC WELD ALL PERMANENT GROUND CONNECTIONS TO GROUND BAR.
- RUN #1/0 BARE COPPER GROUND FROM 250 KCMIL GROUND LOOP TO EQUIPMENT PEDESTAL. NOTE, GROUND WIRE TO BE CONCEALED IN CONCRETE UP TO PEDESTAL.
- RUN 1-1/4" PVC (SCHEDULE 80) WITH PULLWIRE BELOW SLAB AND TURN UP AT COLUMN/WALL AND FUTURE EQUIPMENT AS INDICATED. PROVIDE COUPLING FLUSH WITH FLOOR WITH THREADED CAP AT BOTH ENDS. FOR FUTURE GROUND BETWEEN GROUND BAR AND EQUIPMENT PEDESTAL. NOTE, WATERPROOF SEAL CONDUIT WHERE PENETRATES FLOOR SLAB.
- #4/0 BARE COPPER GROUND WIRE FROM 250 KCMIL GROUND LOOP IN FOOTING EXOTHERMIC WELDED TO WEB OF COLUMN 6" AFF-SEE DETAIL "100D" THIS SHEET.
- PROVIDE 1-1/4" PVC (SCHEDULE 80) SLEEVE IN FLOOR WITH COUPLING FLUSH WITH FLOOR AND THREADED CAP. ALSO, PROVIDE BUSHING ON STUB-OUT BELOW FLOOR FOR FUTURE GROUND WIRE BETWEEN EQUIPMENT AND GROUND TO BUILDING COLUMN.
- NOT USED.
- #4/0 BARE COPPER GROUND FROM 250 KCMIL GROUND LOOP IN FOOTING UP TO OPERATING FLOOR - SEE DETAIL "100B" THIS SHEET.
- #4/0 BARE COPPER GROUND UP TO OPERATING LEVEL FLOOR SLAB, THEN IN SLAB TO CHILLER - SEE DETAIL "100B" THIS SHEET.
- #4/0 BARE COPPER GROUND FROM CHILLER IN SLAB THEN DOWN COLUMN TO 250 KCMIL GROUND LOOP IN FOOTING - SEE DETAIL "100C" THIS SHEET.
- #4/0 BARE COPPER GROUND IN SLAB FROM CHILLER TO COLUMN AND EXOTHERMIC WELD TO COLUMN 6" AFF.
- #1/0 BARE COPPER GROUND RUN IN SLAB BETWEEN EQUIPMENT AND COLUMN AND EXOTHERMIC WELD TO COLUMN 6" AFF.
- GROUND WIRE PIG TAIL TO STUB-UP AFF FOR EQUIPMENT GROUNDING.

This drawing has been prepared solely for the use of Brookhaven National Laboratory and there are no representations of any kind made by Giffels, Partnership to any party with whom Giffels, Partnership has not entered into a contract.

This drawing shall not be used for construction purposes until the seal and signature of the responsible registrant appears on the drawing and proper permit forms and related fees are transmitted by the Owner, Owner's Agent or Contractor to the Authority Having Jurisdiction.

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Project Manager: G. KAPLAN
Project Engineer/Architect: J. BOSSORY
Project No.: SF070003

JOB NO.	SHEET NO.	REVISION	DATE	ENCL.	APPR.	QA
BROOKHAVEN NATIONAL LABORATORY						
UNDER CONTRACT WITH UNITED STATES DEPARTMENT OF ENERGY PLANT ENGINEERING DIVISION UPTON, NEW YORK 11973						
JOB TITLE CENTRAL CHILLED WATER FACILITY PHASE II			DWG. TITLE GROUNDING PLAN			
1/8" O.P.L.N. NEW	DATE	ACCT. NO.	SHEET OF			
SCALE AS NOTED	DWN. BY EA	REV'D BY RB	JOB NO. 11705	DWG. NO. E-100		
ES&H RISK LEVEL	APPR. BY R BARTOY	BLDG. NO. 600	PATH:			