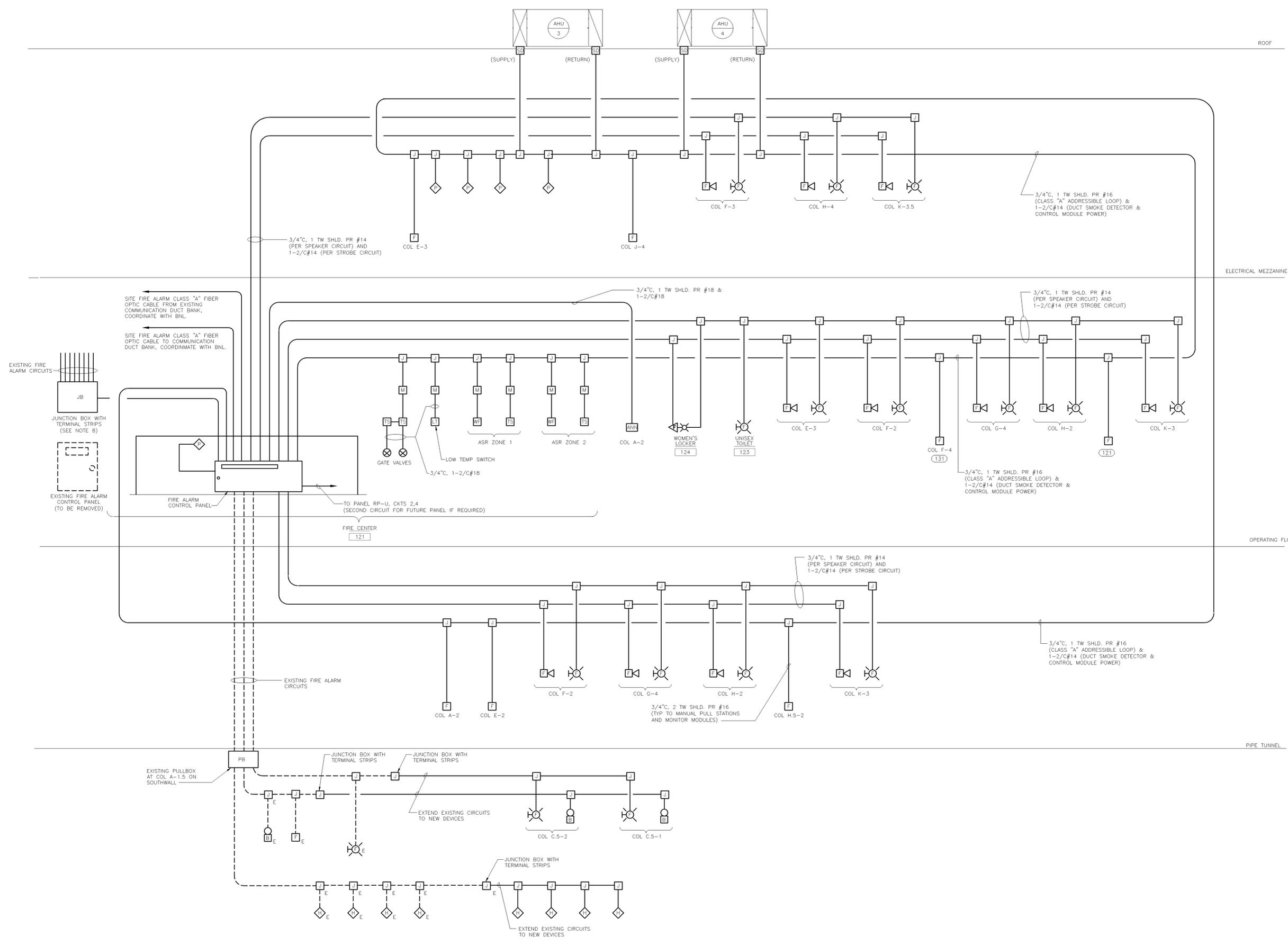


Date (mm dd yyyy)	Issued For	Rev.
07-31-2008	TITLE II DESIGN 90% REVIEW SUBMITTAL	E
08-25-2008	TITLE II DESIGN 100% OWNER REVIEW	F
02-19-2009	TITLE II CONSTRUCTION BID ISSUE	O



- FIRE ALARM SYSTEM RISER DIAGRAM NOTES:**
- REFER TO DRAWING E-001 FOR ELECTRICAL ABBREVIATIONS, GENERAL NOTES AND DRAWING LIST AND DRAWING E-002 FOR ELECTRICAL SYMBOLS.
  - FIRE ALARM SYSTEM RISER DIAGRAM IS SHOWN TO ILLUSTRATE DESIGN INTENT AND DEVICE INTERCONNECTION ONLY. SEE PLANS FOR LOCATION AND QUANTITIES OF DEVICES. FURNISH AND INSTALL ALL EQUIPMENT AND DEVICES REQUIRED TO MEET THE INTENT OF SPECIFICATION SECTION 16721.
  - INSTALL ALL WIRING AND DEVICES PER MANUFACTURERS CERTIFIED AND APPROVED SHOP DRAWINGS.
  - MOUNT DUCT SMOKE DETECTOR ON THE SUPPLY AND RETURN SIDE OF AHU'S IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND NFPA 72.
  - WIRING AND CONDUIT BETWEEN DUCT SMOKE DETECTOR AND AHU SUPPLY AND RETURN FAN STARTERS TO SHUT DOWN THE UNIT UPON ALARM OF SMOKE DETECTOR WILL BE PERFORMED BY THE I & C CONTRACTOR.
  - REFER TO SPECIFICATION SECTION 16721 FOR FIRE ALARM SYSTEM SEQUENCE OF OPERATION.
  - WIRE SPEAKER AND STROBE CIRCUITS AS PER MANUFACTURERS APPROVED SHOP DRAWINGS. PROVIDE 25% SPARE CAPACITY ON EACH SPEAKER AND STROBE CIRCUIT.
  - PROVIDE JUNCTION BOX WITH TERMINAL STRIPS. EXTEND EXISTING FIRE ALARM CIRCUITS TO NEW FIRE ALARM CONTROL PANEL.
  - TEE TAPPING SHALL NOT BE ALLOWED ON ANY FIRE ALARM CIRCUITS.

**FIRE ALARM RISER DIAGRAM**  
SCALE: NONE

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.

JOB NO. SHEET NO. REVISION		DATE	ENCL.	APPROV.	DLA
UNDER CONTRACT WITH <b>UNITED STATES DEPARTMENT OF ENERGY</b> PLANT ENGINEERING DIVISION UPTON, NEW YORK 11973					
JOB TITLE CENTRAL CHILLED WATER FACILITY PHASE II			DWG. TITLE FIRE ALARM SYSTEM RISER DIAGRAM		
DATE	SCALE	APP'D. BY	REV'D BY	JOB NO.	SHEET OF
02/19/09	NONE	R. BARTOY	G. KAPLAN	11705	1 OF 1
ES&H RISK LEVEL	APP'D. BY	BLDG. NO.	DWG. NO.		
PATH:	R. BARTOY	600	E-608		

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Project Manager: G. KAPLAN  
Project Engineer/Architect: R. MACK  
Project No.: SF070003