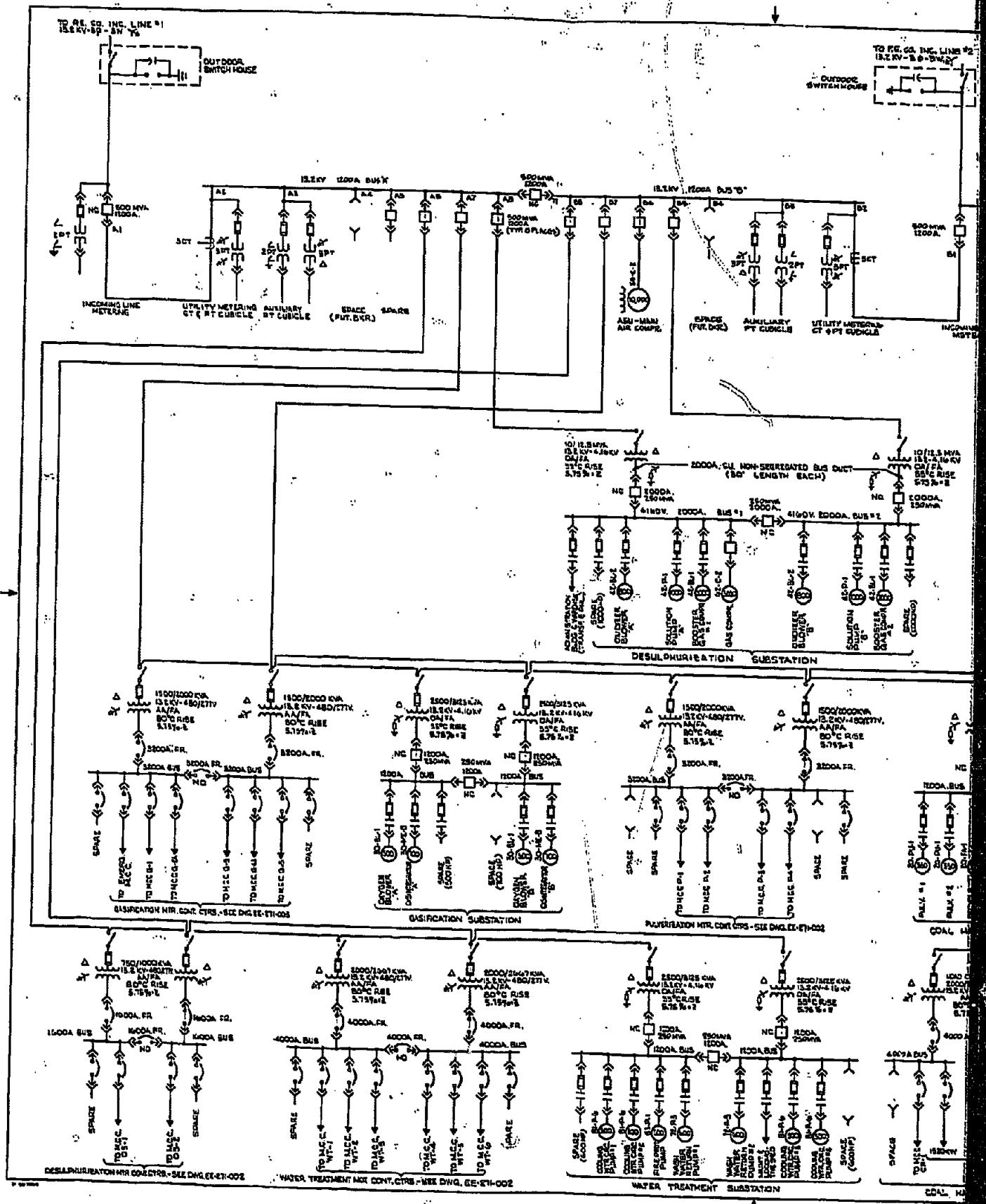
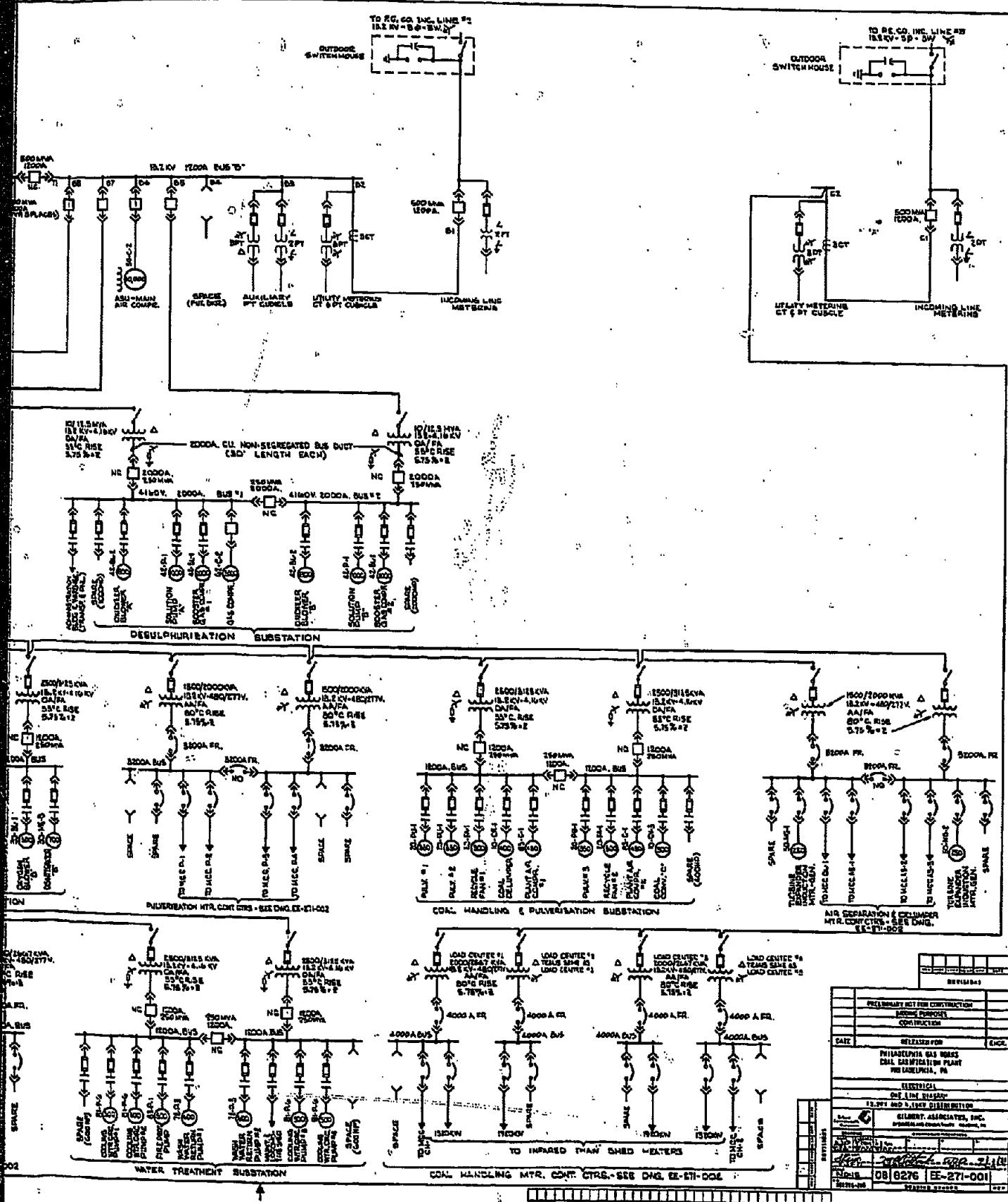
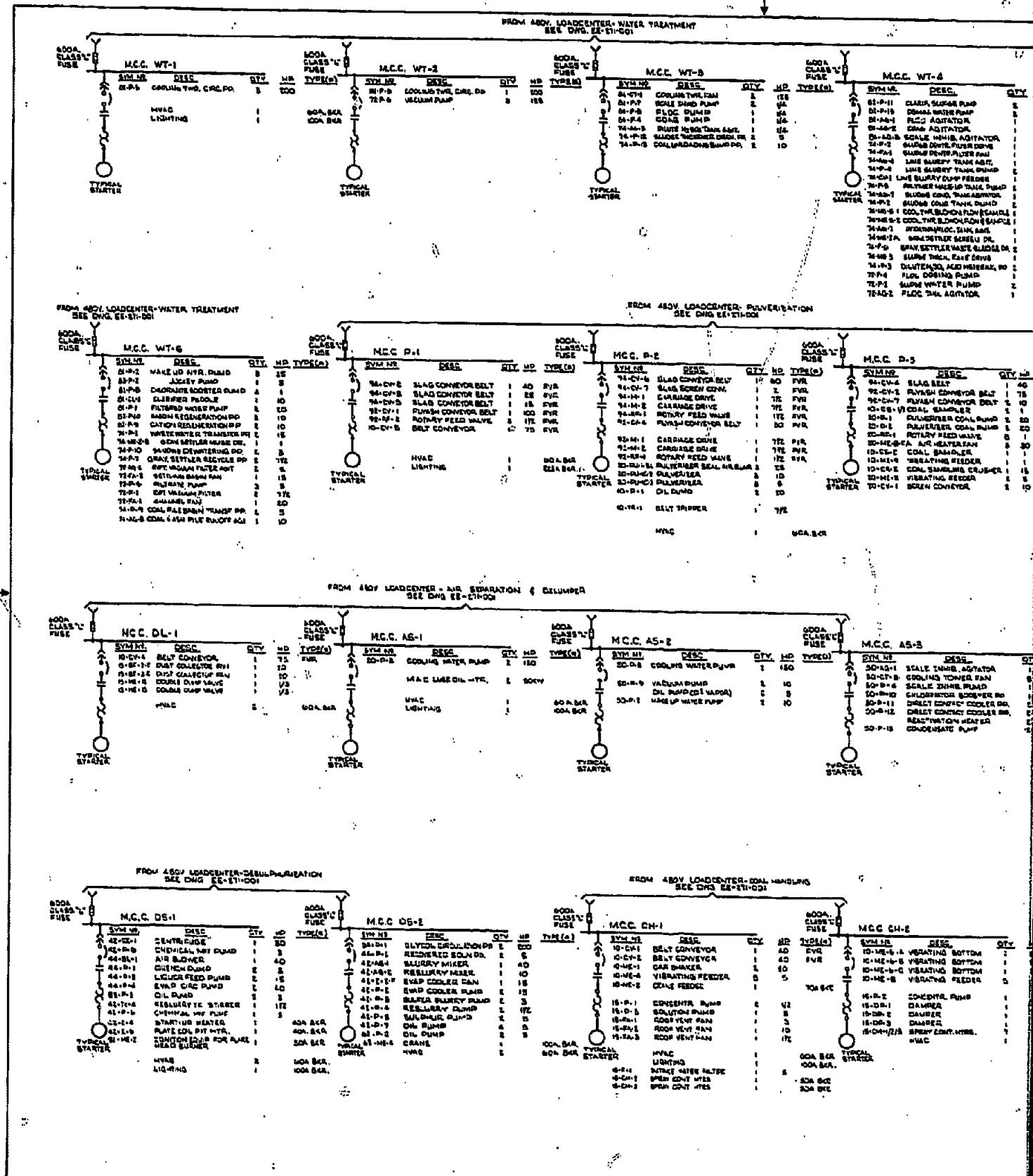
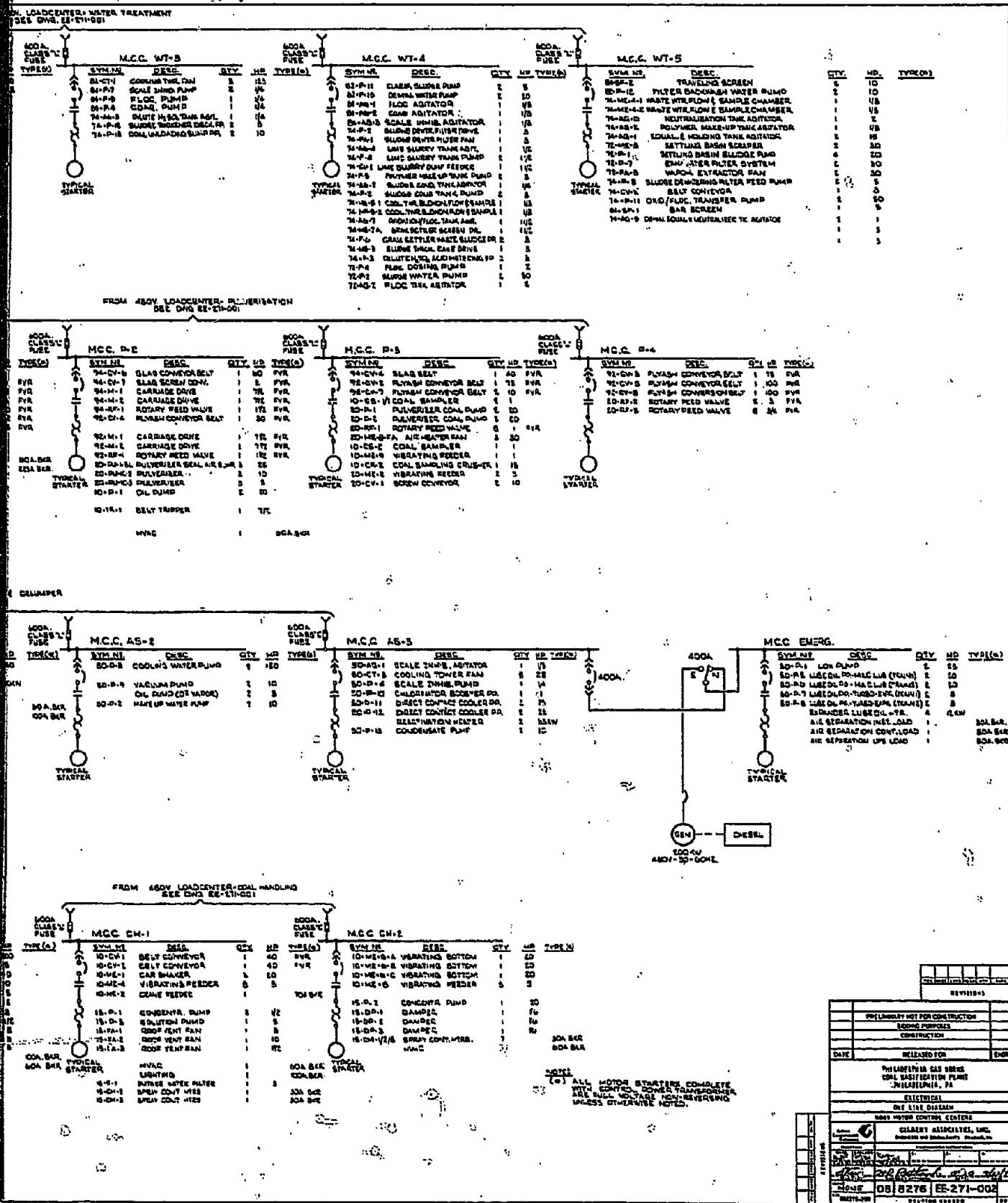


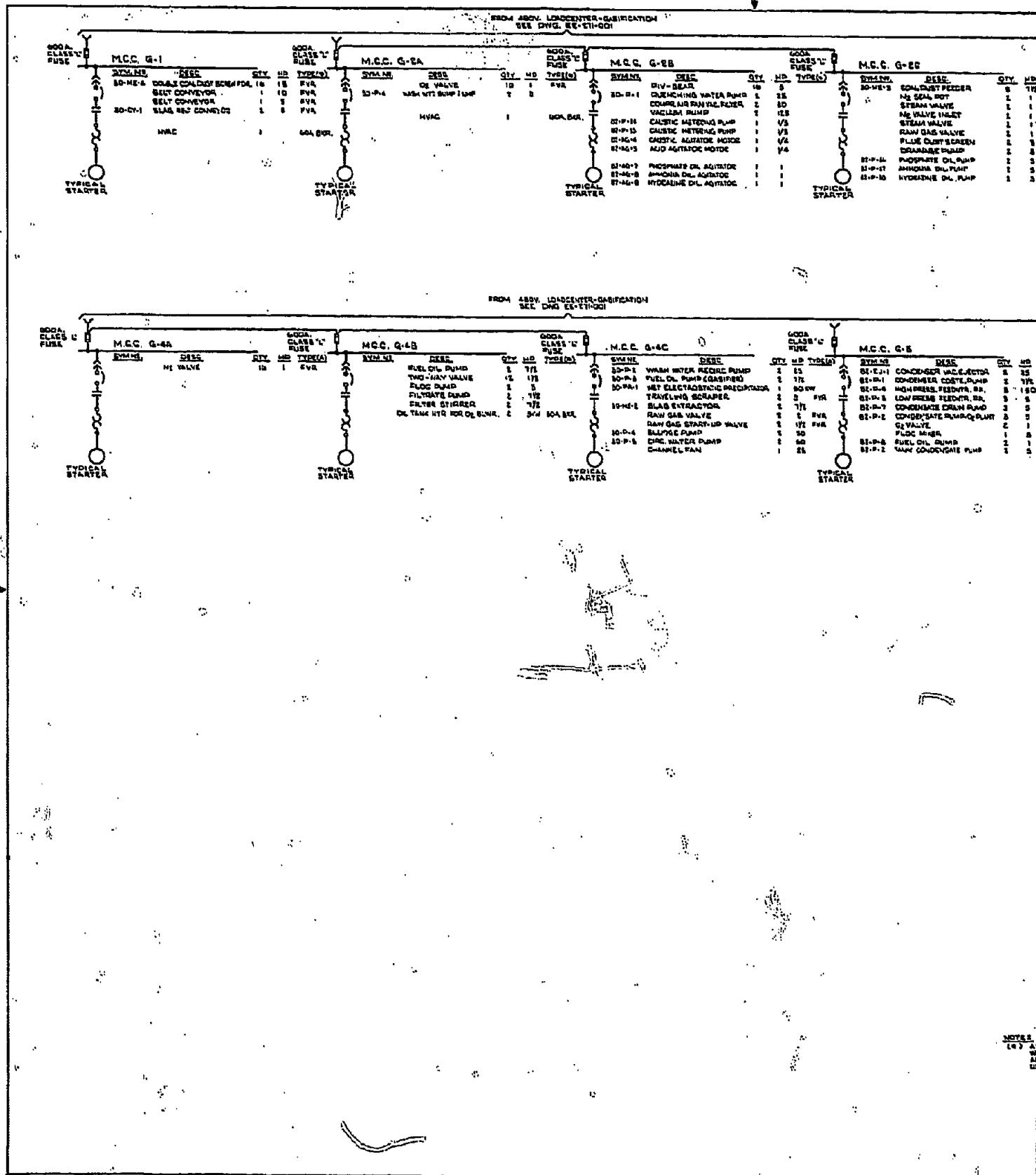
APPENDIX F
ELECTRICAL DRAWINGS

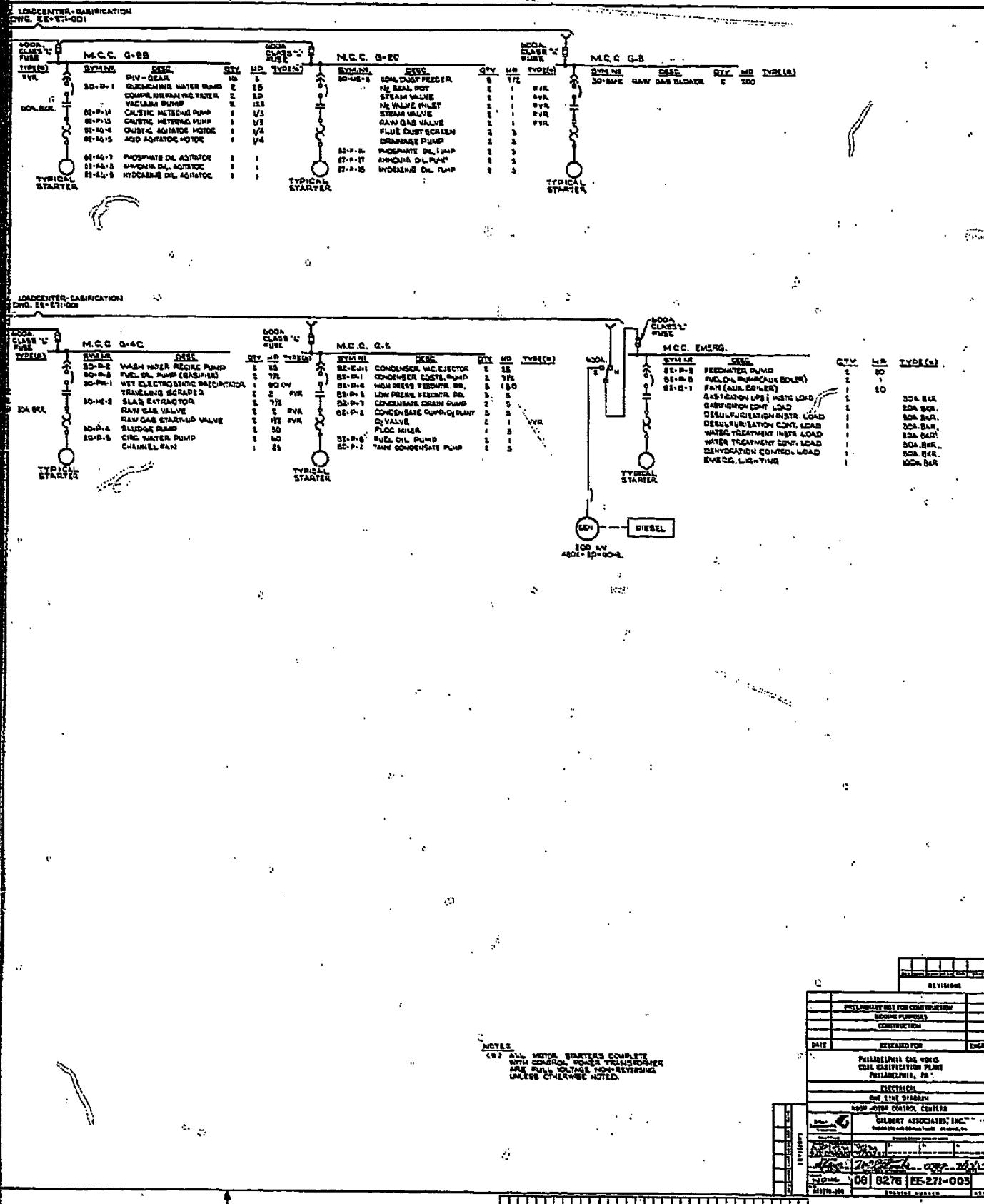




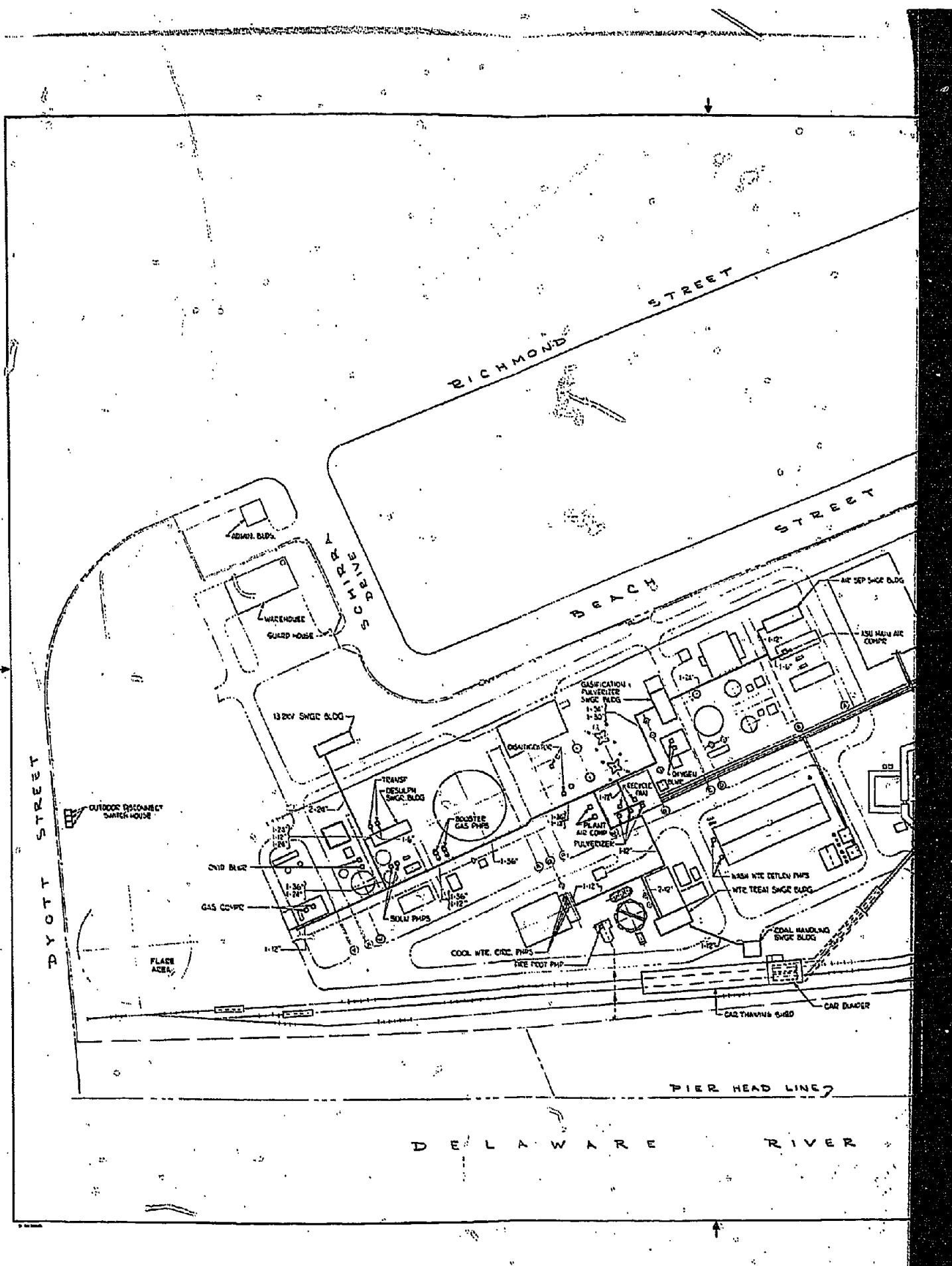


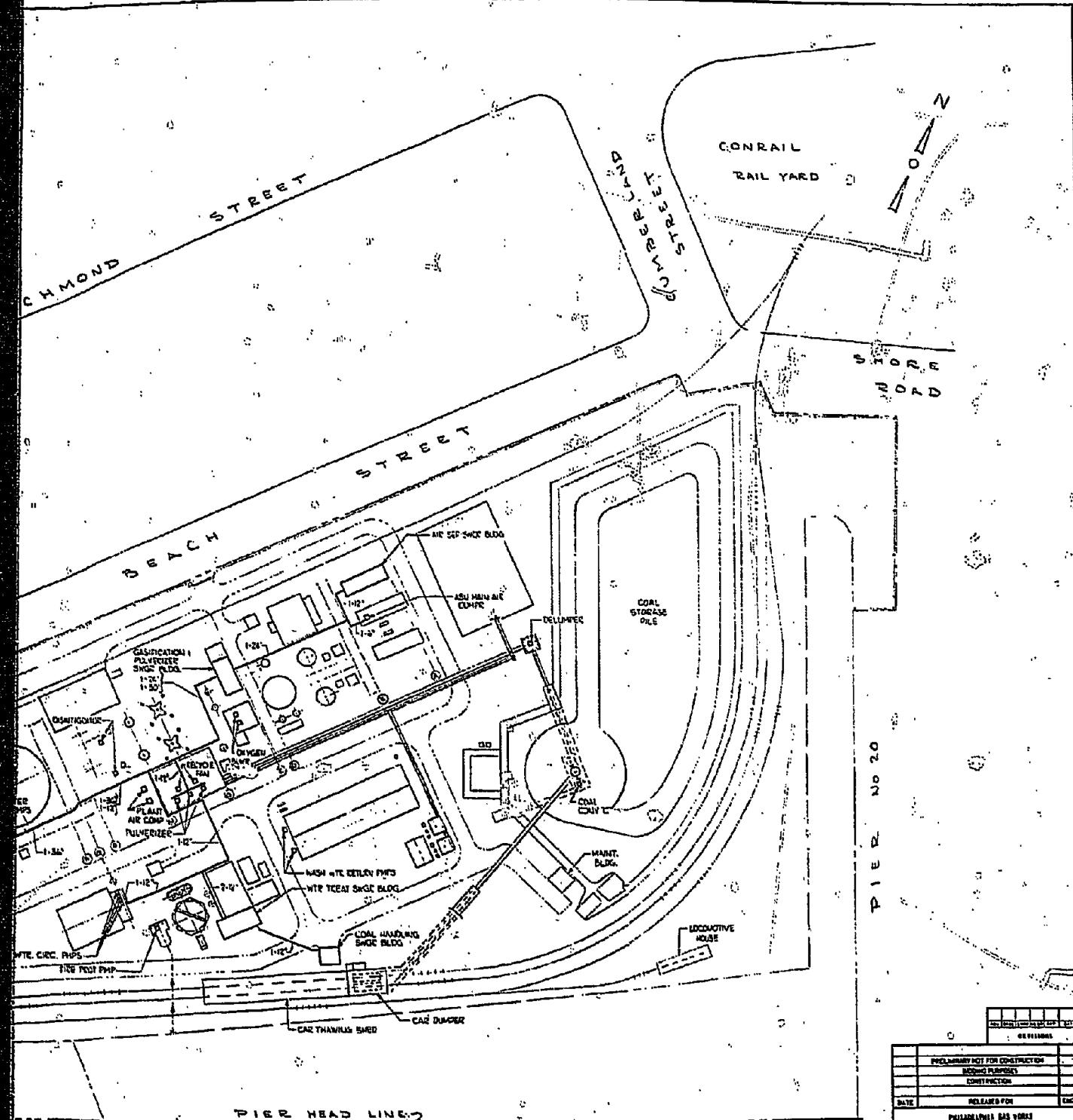




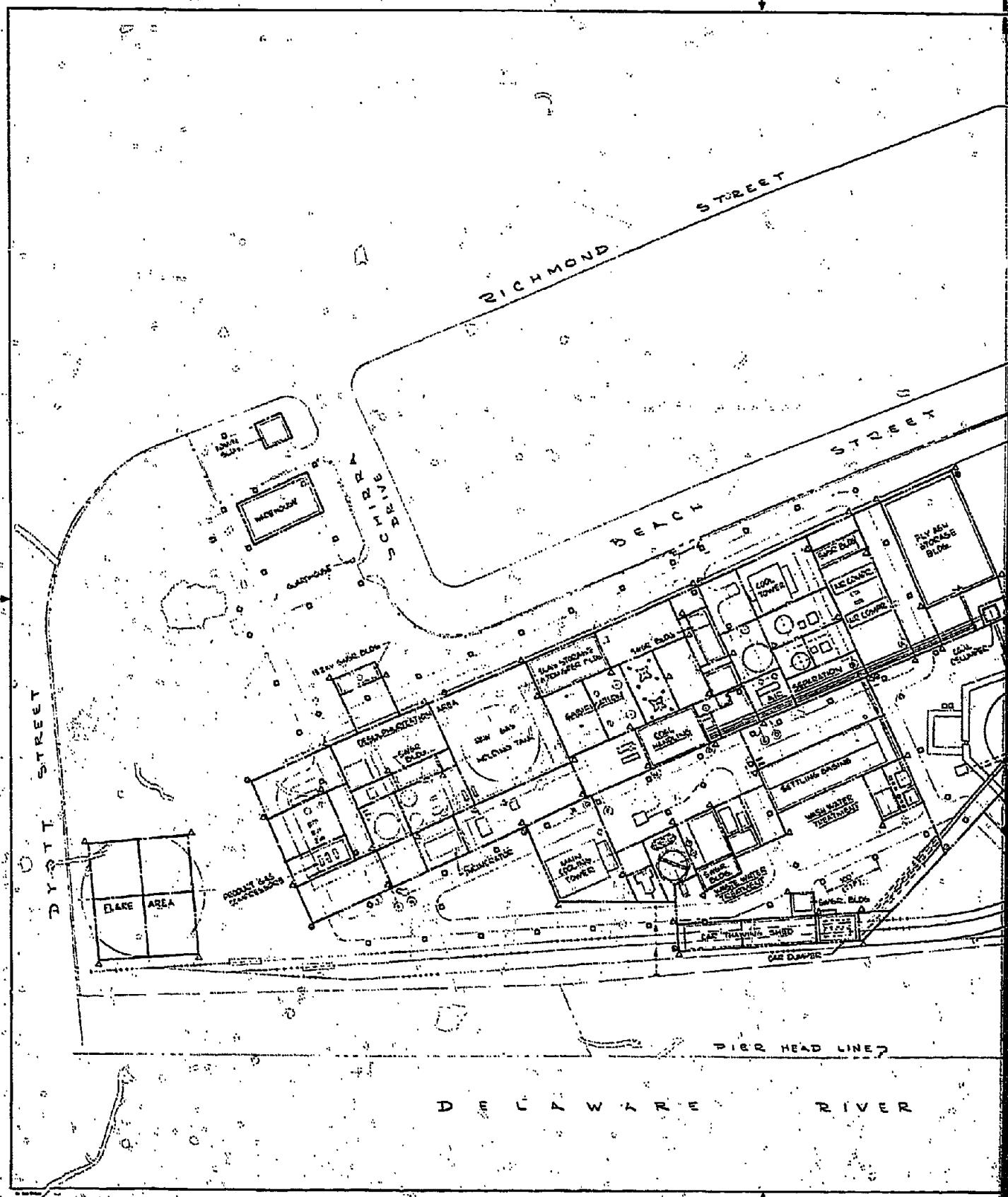


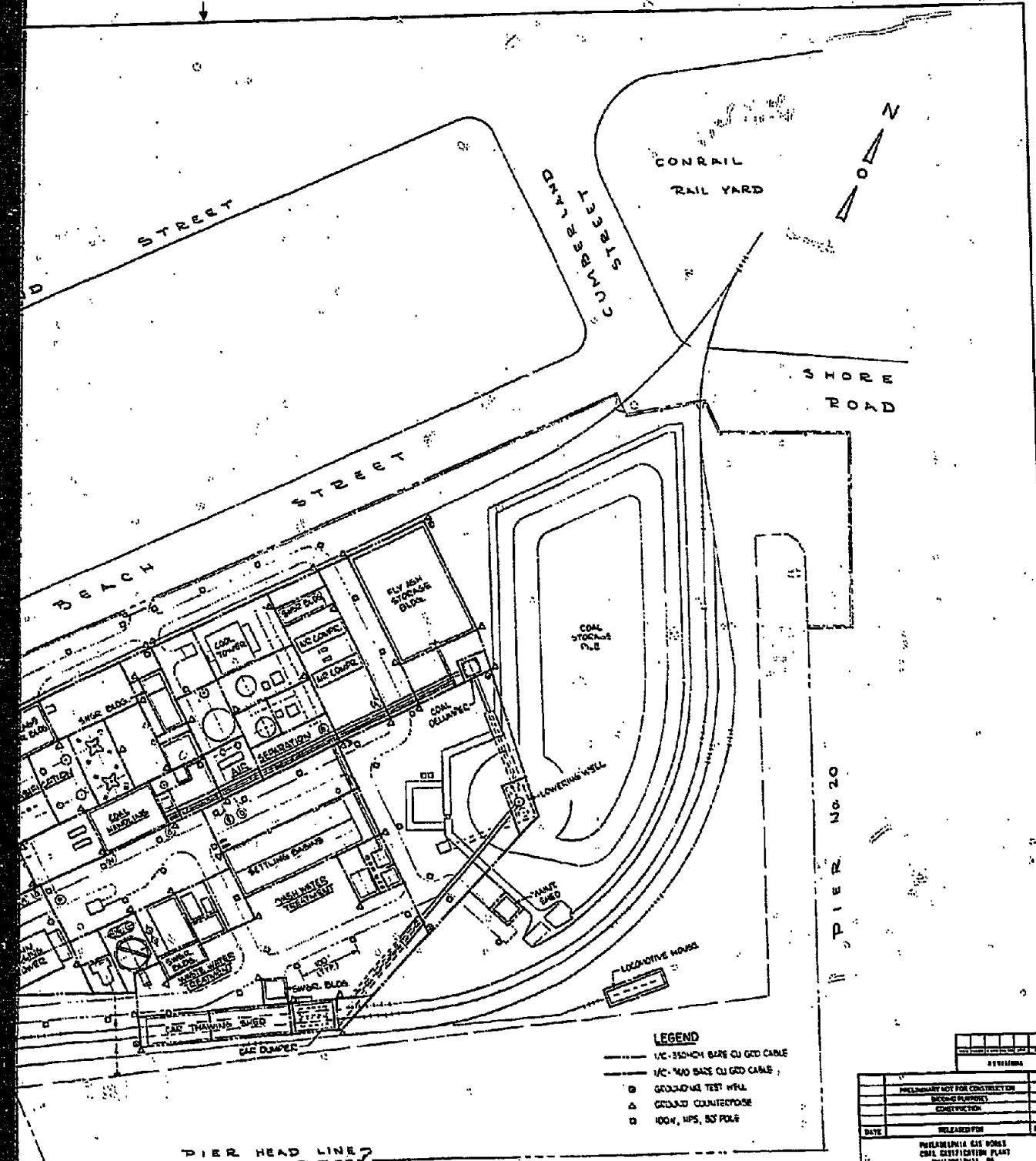
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DATE	RELEASED FOR		
	PHILADELPHIA GAS WORKS CIVIL CLASSIFICATION PLANT PHILADELPHIA, PA.		
	ELECTRICAL ONE-TIME STATION 4000-VOLT CONTROL CENTER		
RELEASER	GILBERT ASSOCIATES, INC. Engineering & Technical Services		
RELEASER SIGNATURE	<i>[Signature]</i>		
DATE	08-27-00		
REF ID	08-27-003		
RELEASER NUMBER			



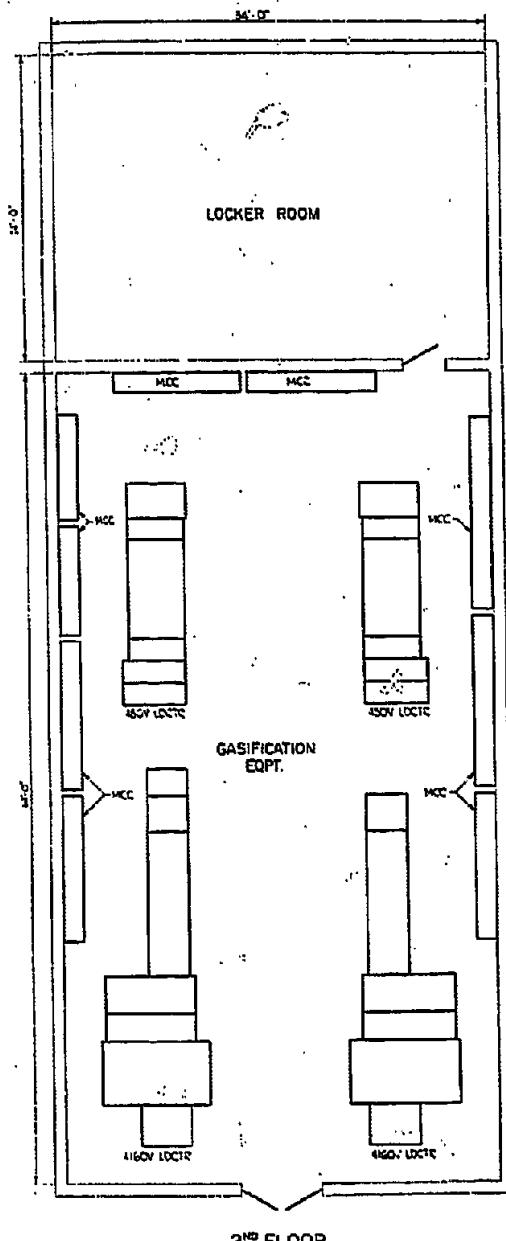
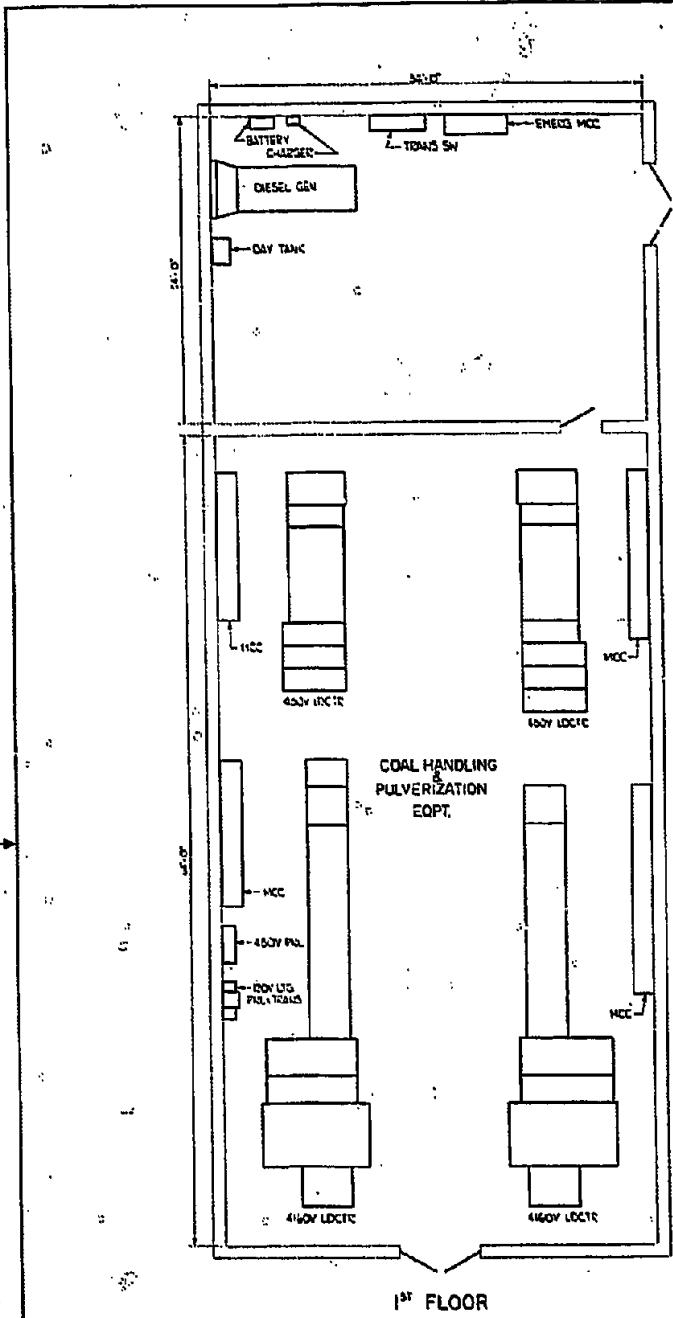


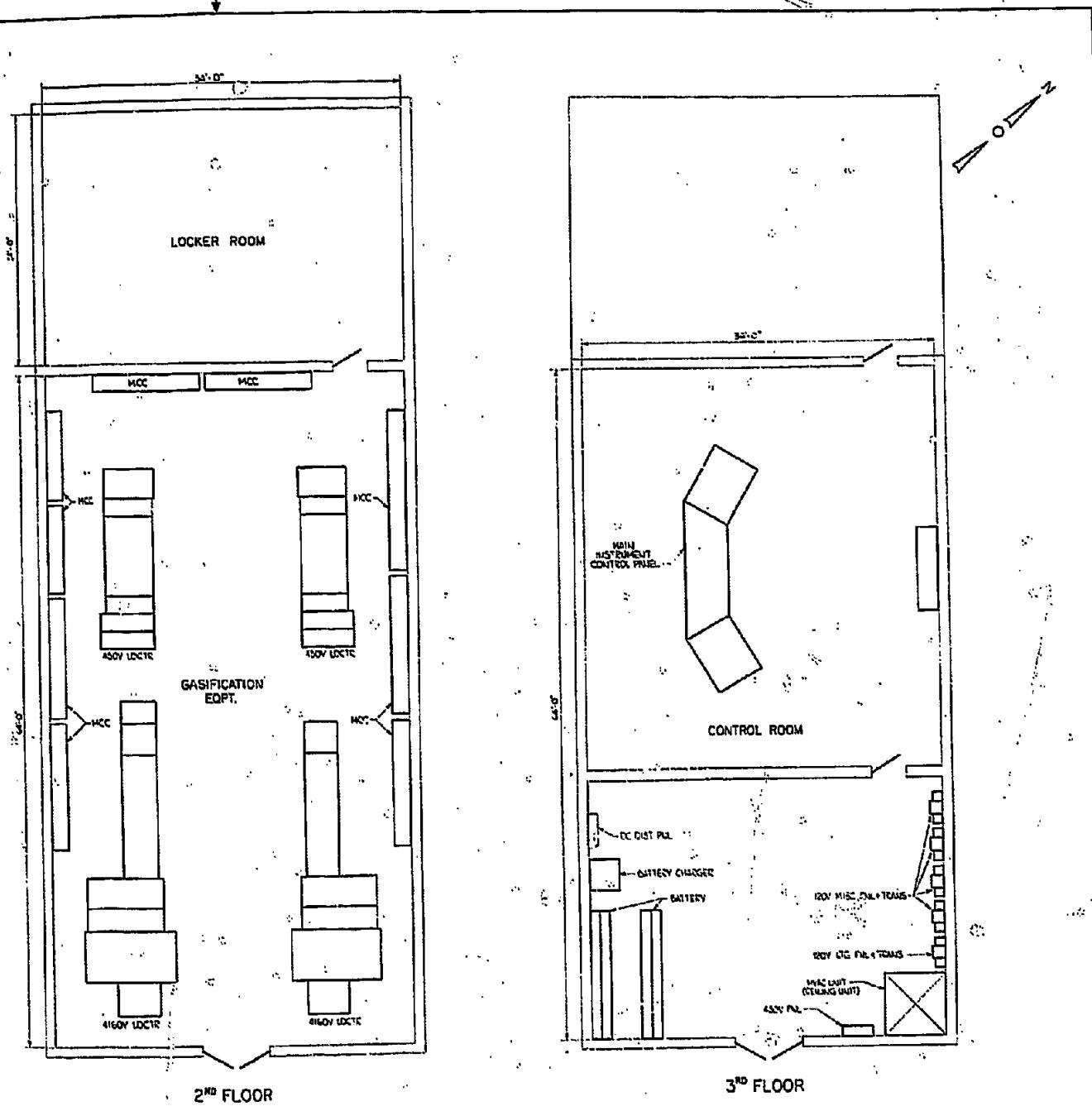
PRELIMINARY NOT FOR CONSTRUCTION		EXCH.
BODING PURPOSES		
CONSTRUCTION		
DATE		RELEASED FOR
PHILADELPHIA GAS WORKS		CONSTRUCTION
COAL GASIFICATION PLANT		
PHILADELPHIA, PA		
ELECTRICAL		
PLANT PLANS		
10,000 AND 10,000 KW PLANT		
GILBERT ASSOCIATED, INC.		
PHILADELPHIA, PA		
CITY OF PHILADELPHIA		
CONSTRUCTION CONTRACTOR		
CONTRACT NO. 06-8278 EE-271-004		
CONTRACT DATE 06-07-10		

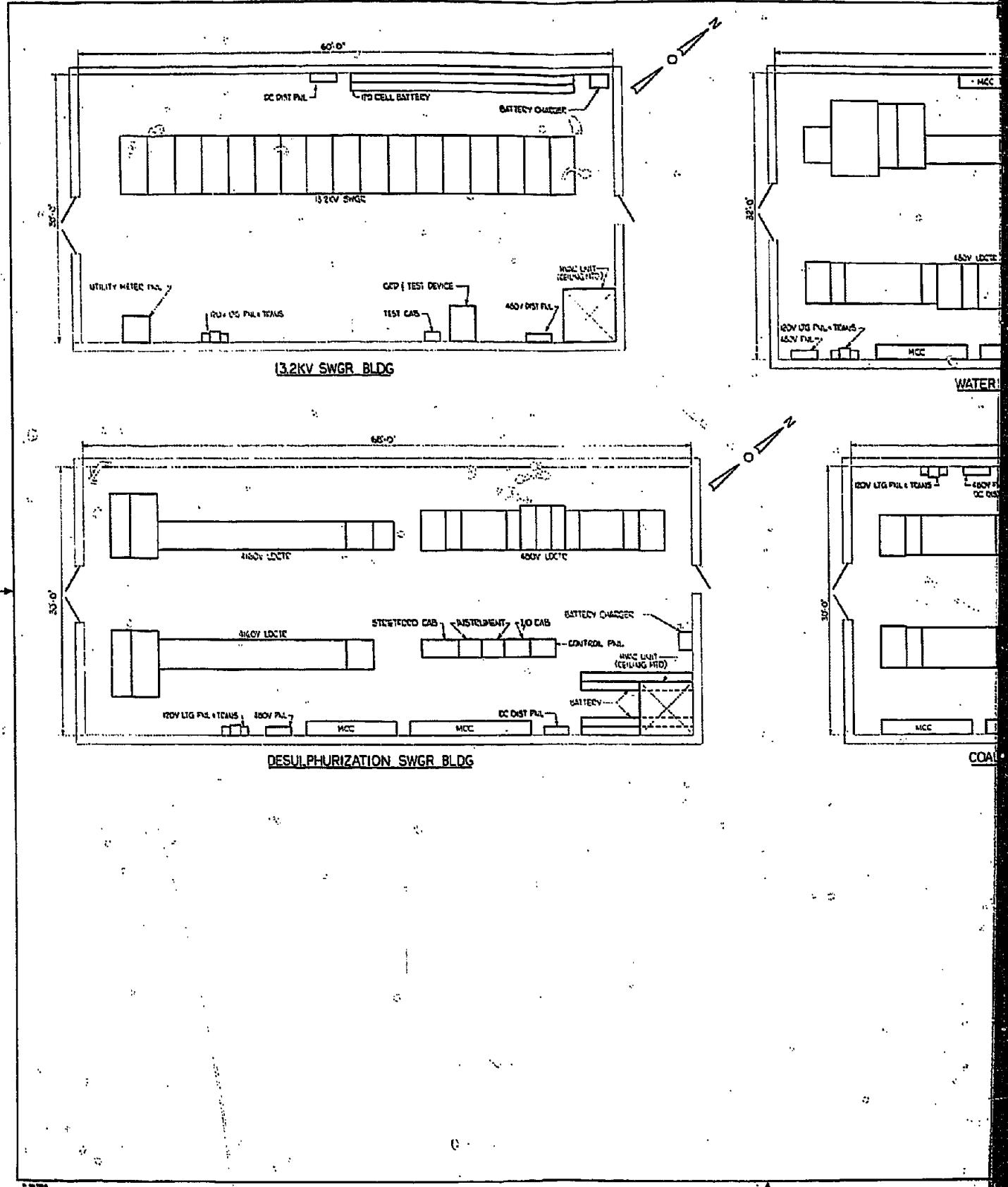


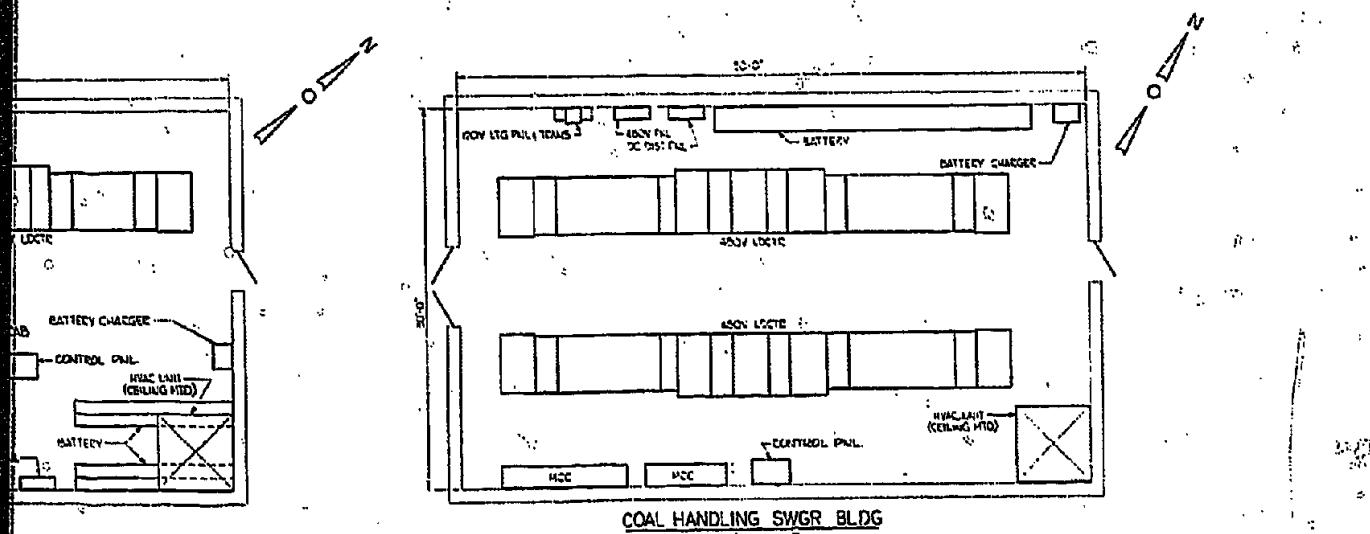
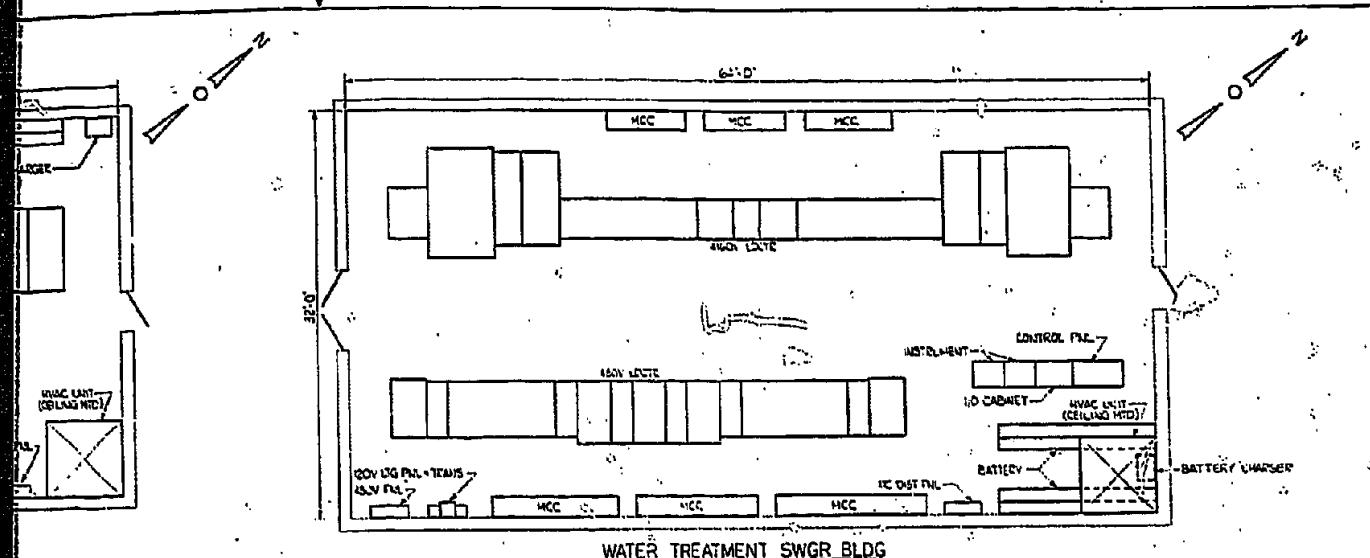


Preliminary Site Plan		Date:
REVISIONS		RELEASER FOR
		PHILADELPHIA GAS WORKS COAL CLASSIFICATION PLANT PHILADELPHIA, PA
		ELECTRICAL
		PLAT PLAN
OWNER / LENDER AND THEIR CO'S NAMED		RELEASER
GILBERT ASSOCIATES, INC. 1000 DEADERICK ST., BALTIMORE, MD 21202		DATE
		06/06/86
PROJECT NUMBER		REF ID
EE-271-005		EE-271-005
DRAWING NUMBER		ISSUE NUMBER
06/06/86		1



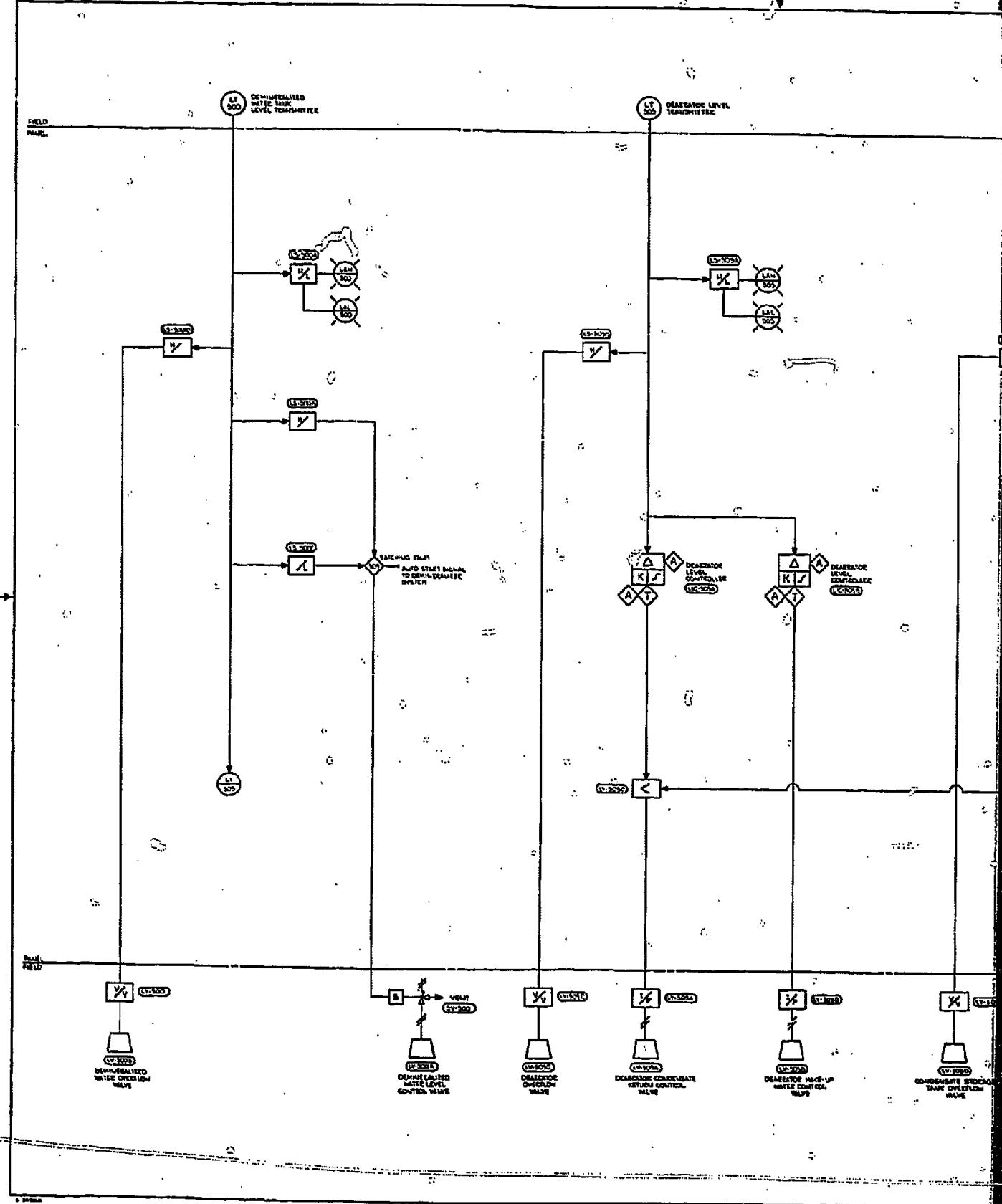


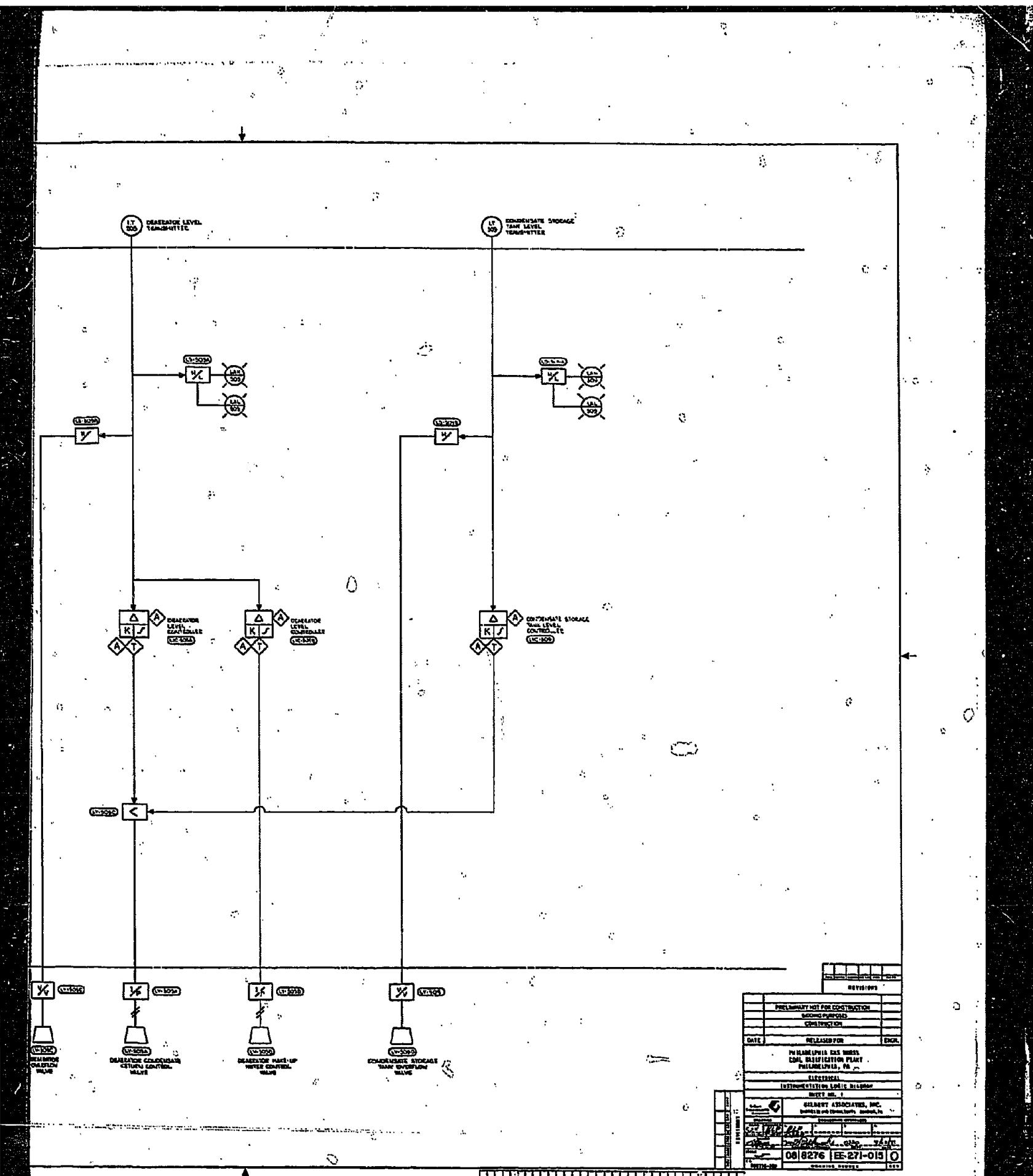


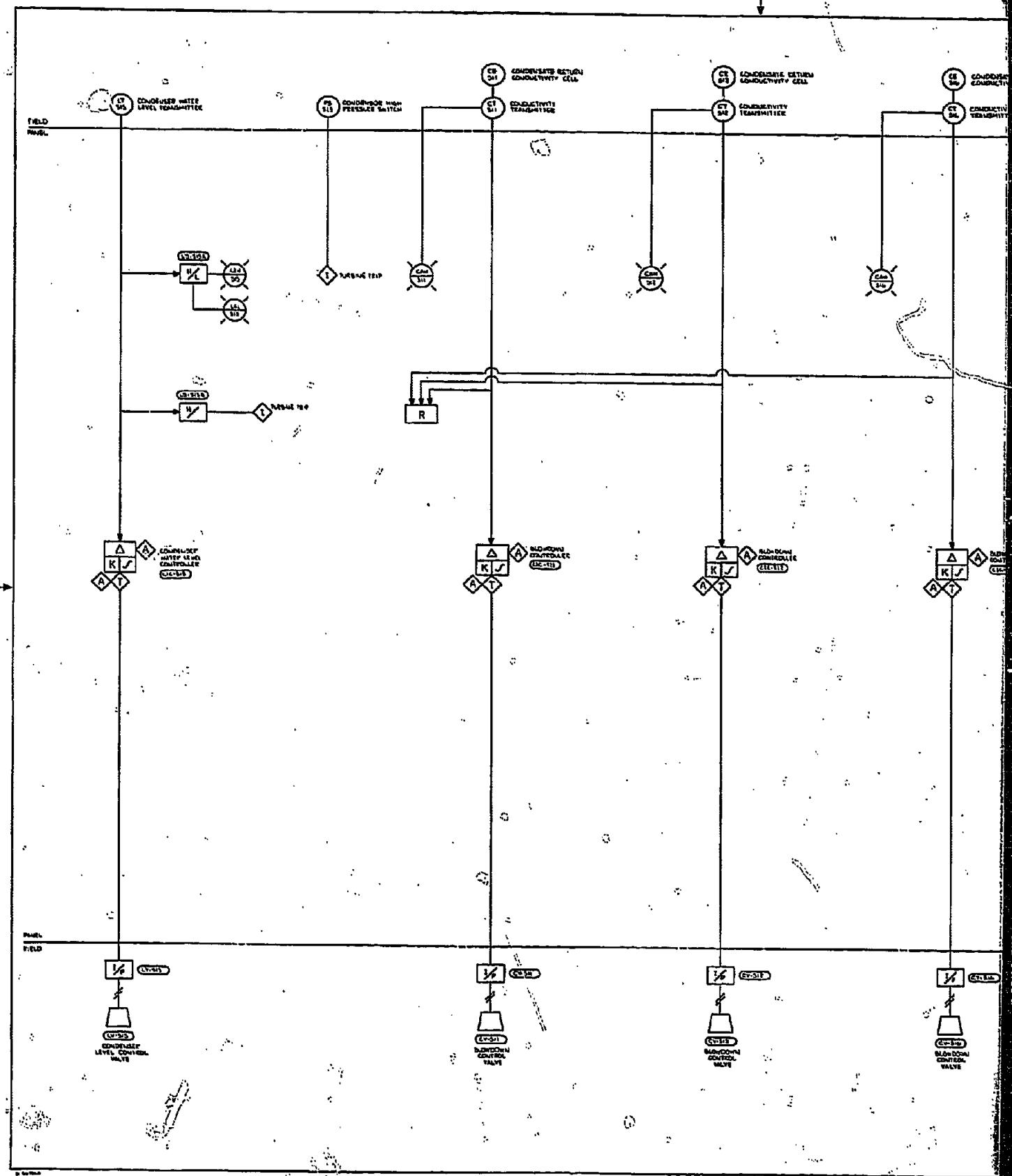


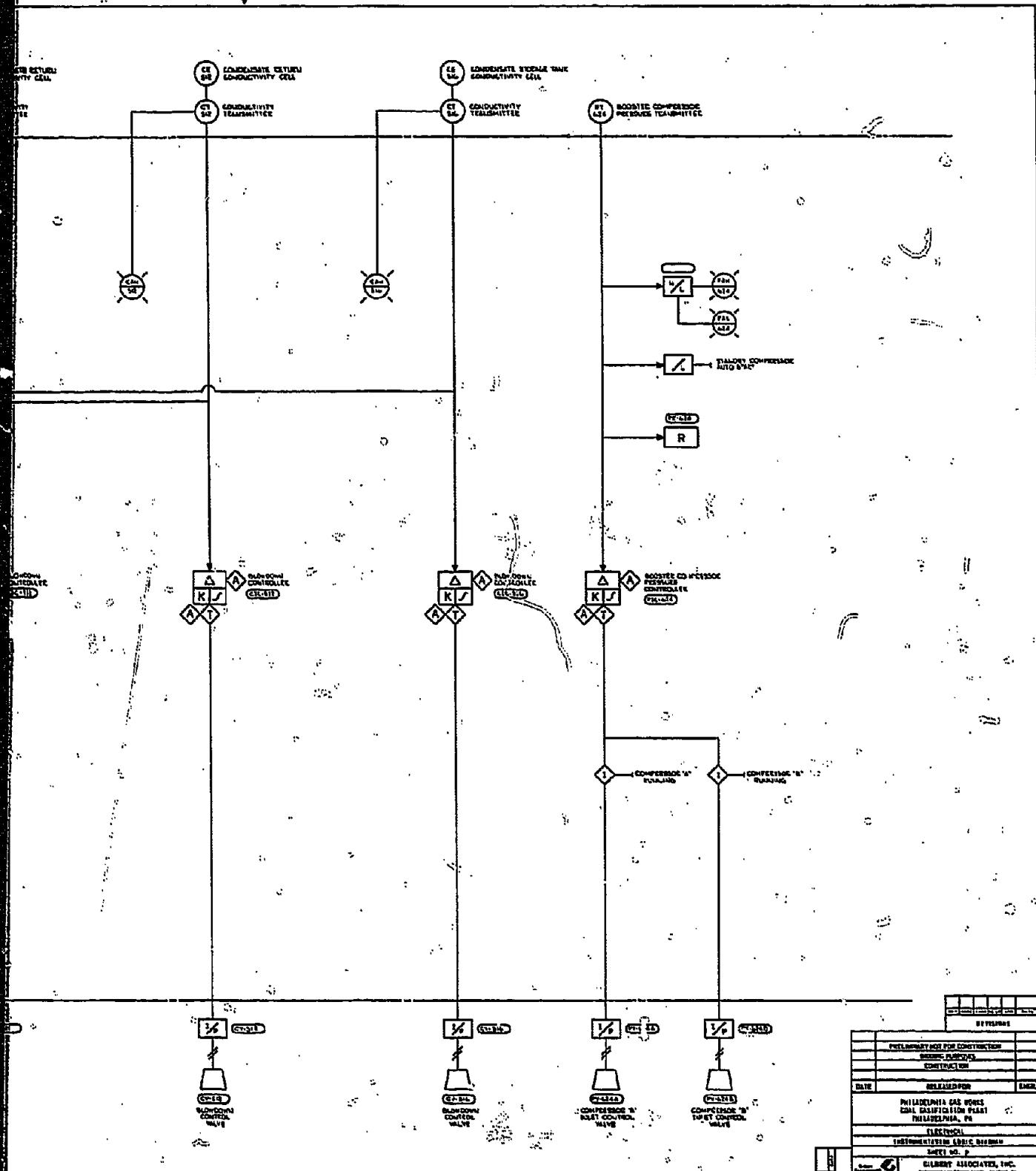
DRAWING NO.		REV.	
Preliminary Not for Construction Bidding Purposes Construction			
DATE	RELEASED FOR		
PHILADELPHIA GAS & ELECTRIC COMPANY COAL CLASSIFICATION PLANT PHILADELPHIA, PA			
ELECTRICAL EQUIPMENT ARRANGEMENTS 100 EAST 12TH STREET, NEW YORK, NY 10003 GILBERT ASSOCIATES, INC. MANUFACTURERS AND ENGINEERS OF ELECTRICAL EQUIPMENT			
08 0276 ES-271-012			
08/10/2000			

APPENDIX G
INSTRUMENT AND CONTROL LOGIC DIAGRAMS

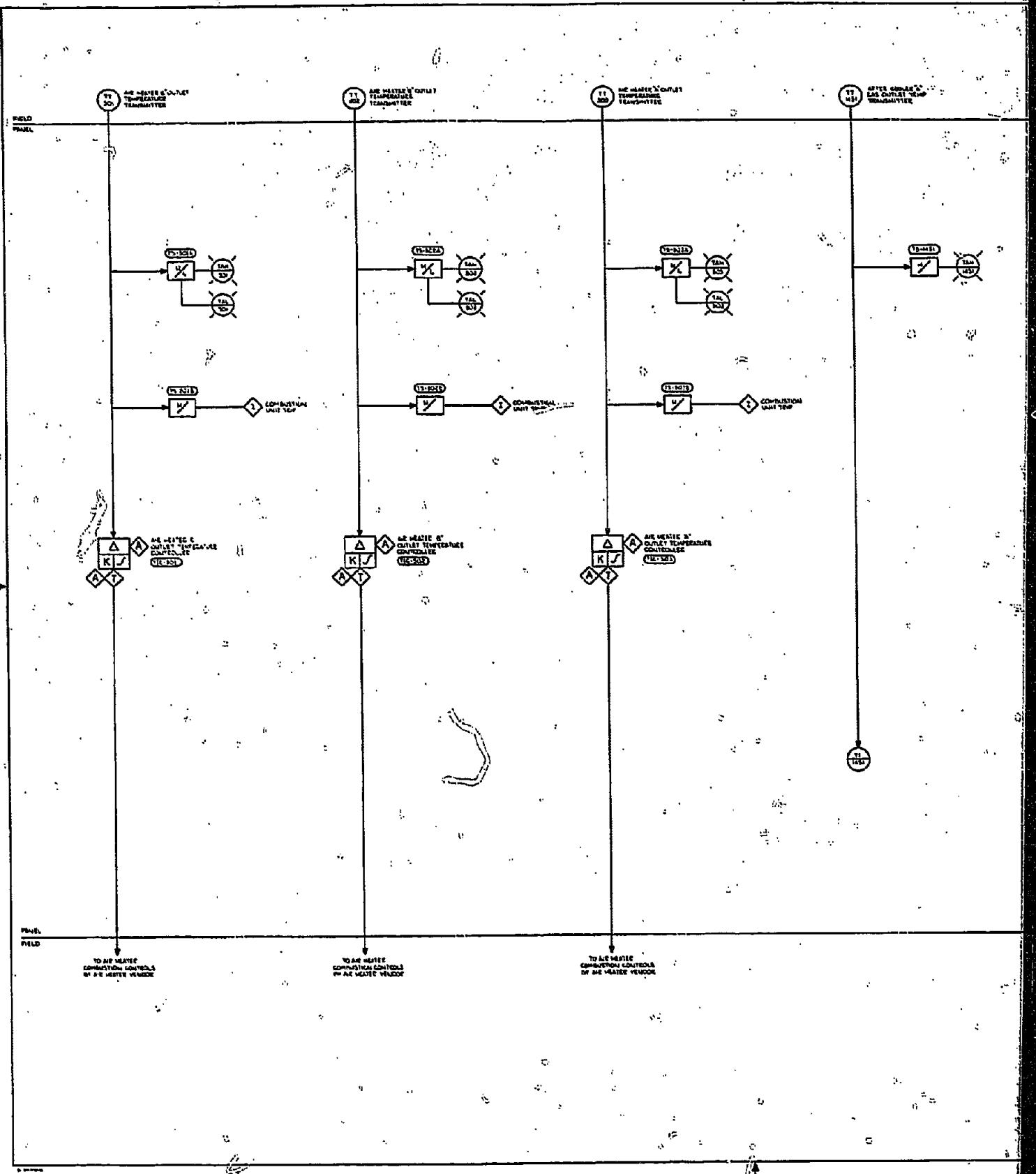


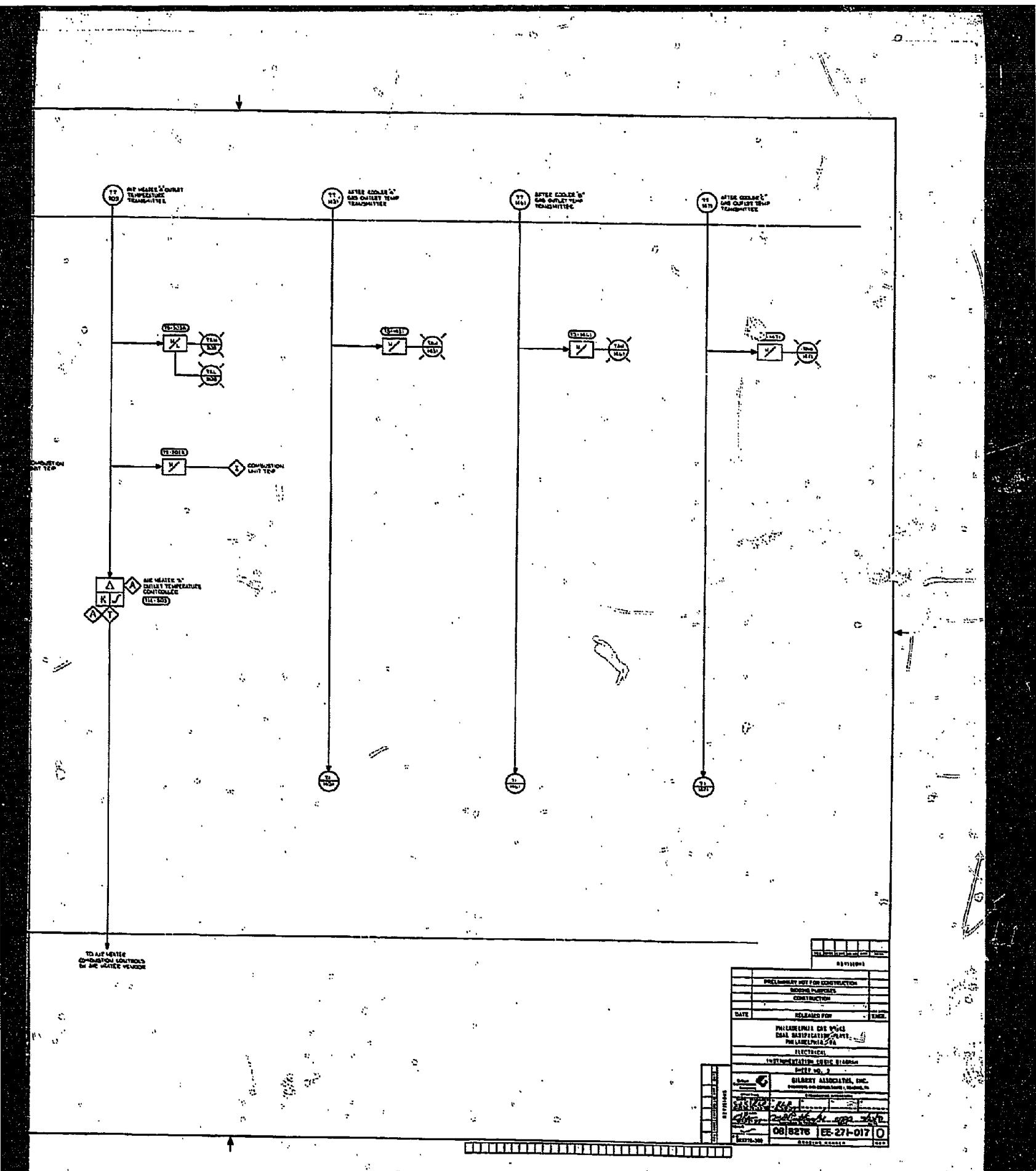


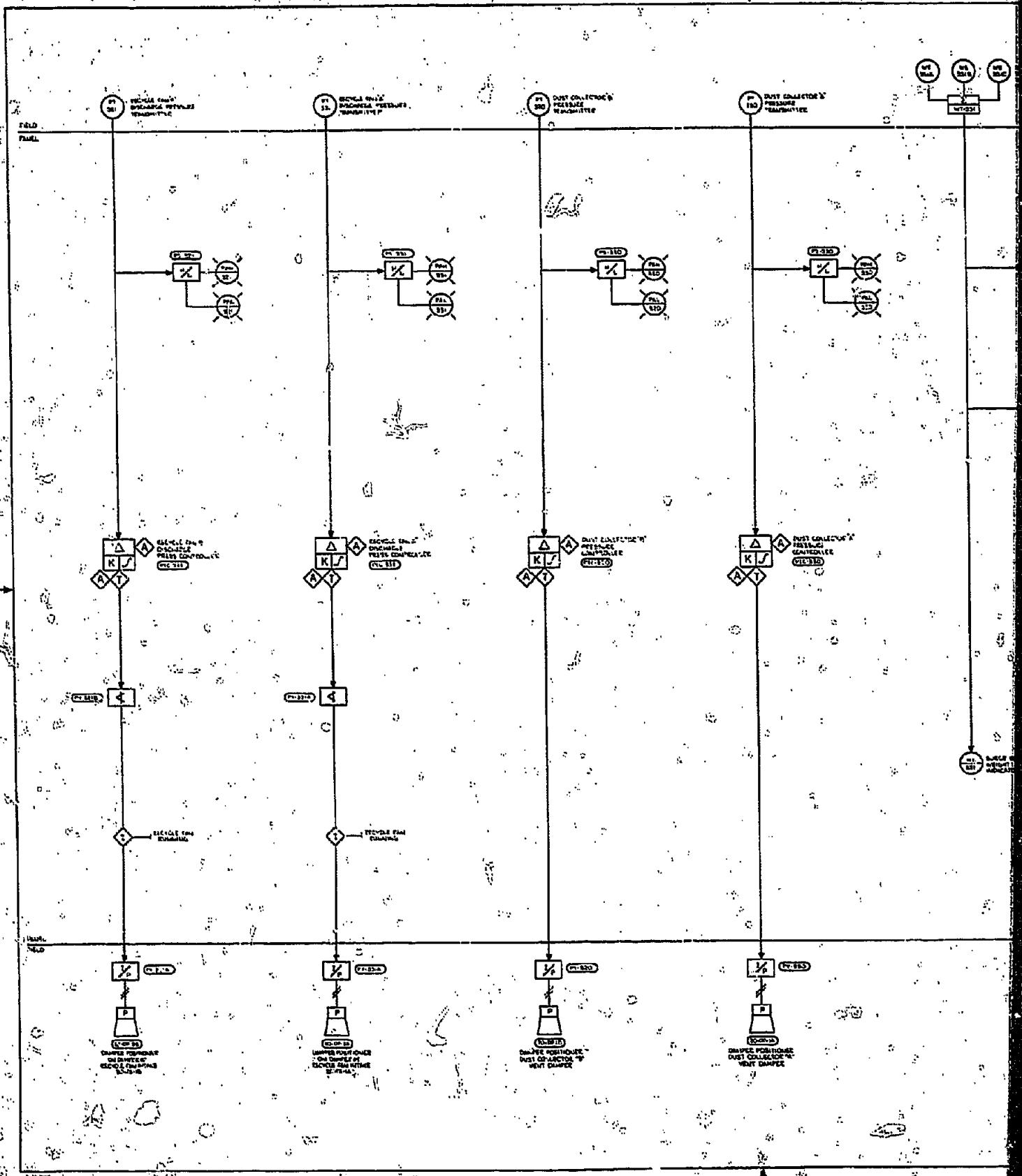


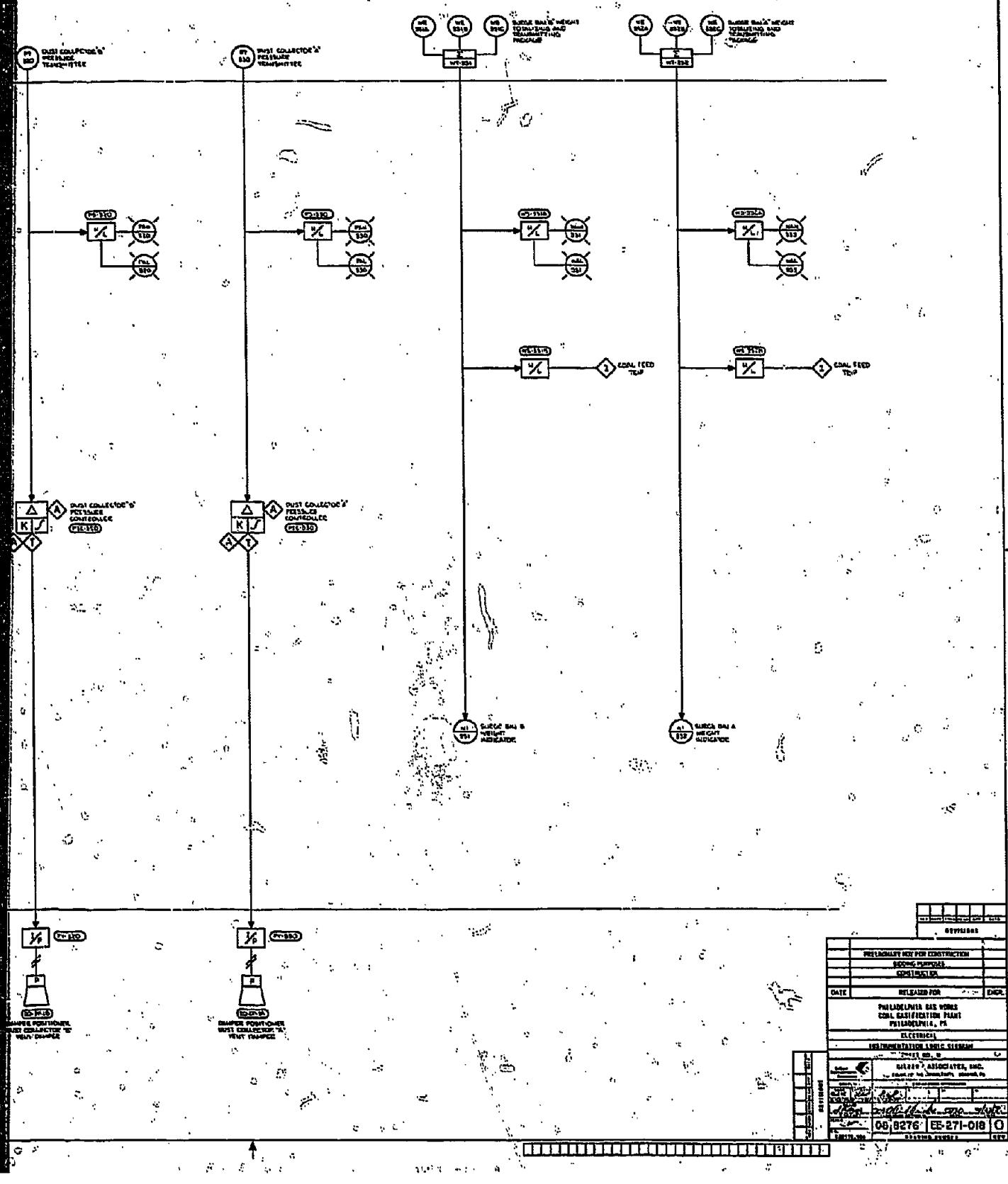


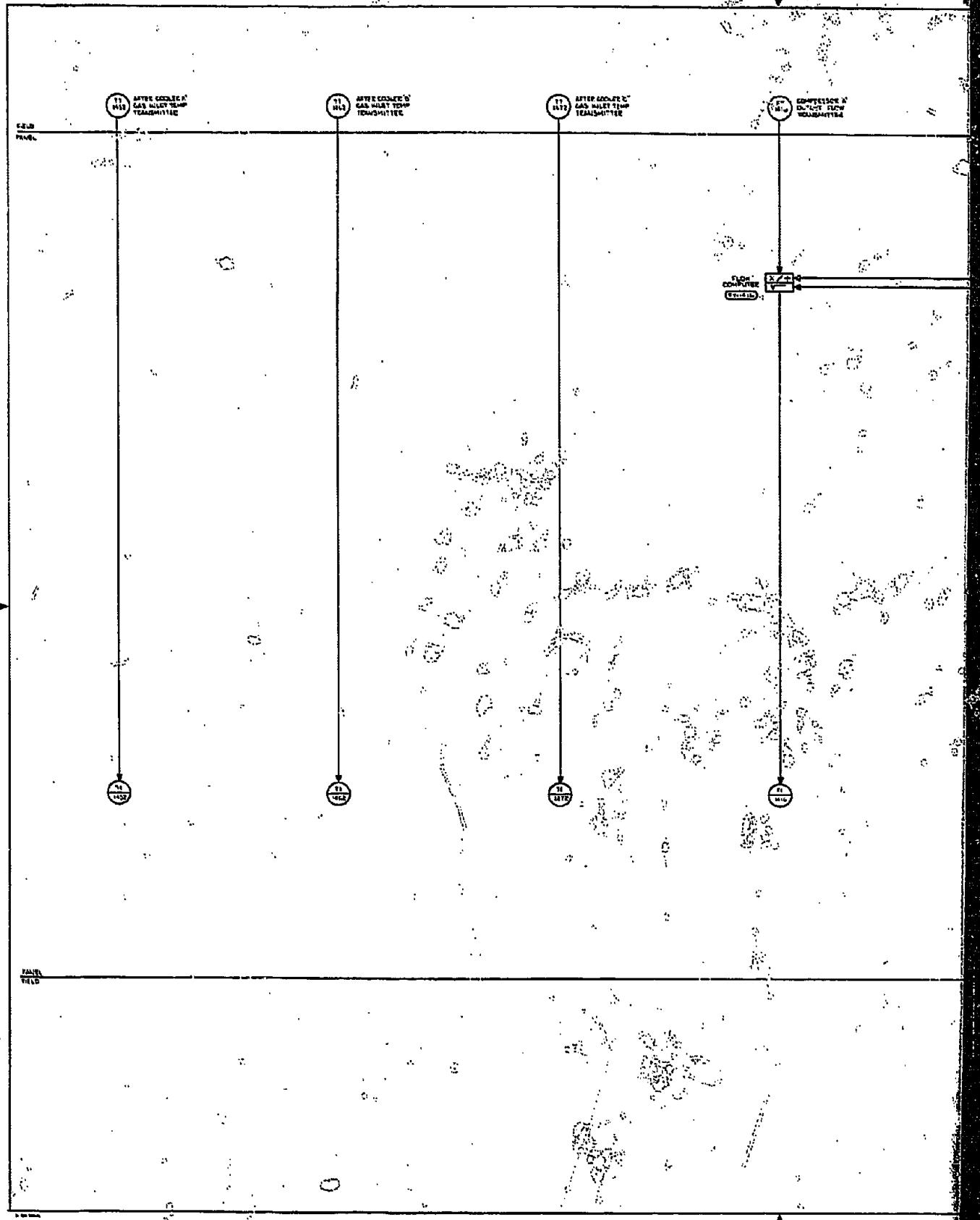
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GENERAL PURPOSES	
CONTRACT NO.	
DATE	RELEASED FOR
PHILADELPHIA GAS WORKS COAL CLASSIFICATION PLANT MIDASITE, PA	
ELECTRICAL	
INSTRUMENTATION & CONTROL SYSTEM	
SHEET NO. 2	
GILBERT ASSOCIATES, INC. Engineering and Construction Division, Inc.	
1000 N. Broad Street, Philadelphia, PA 19101 (215) 923-1000	
08 B276 EE-271-016 0	

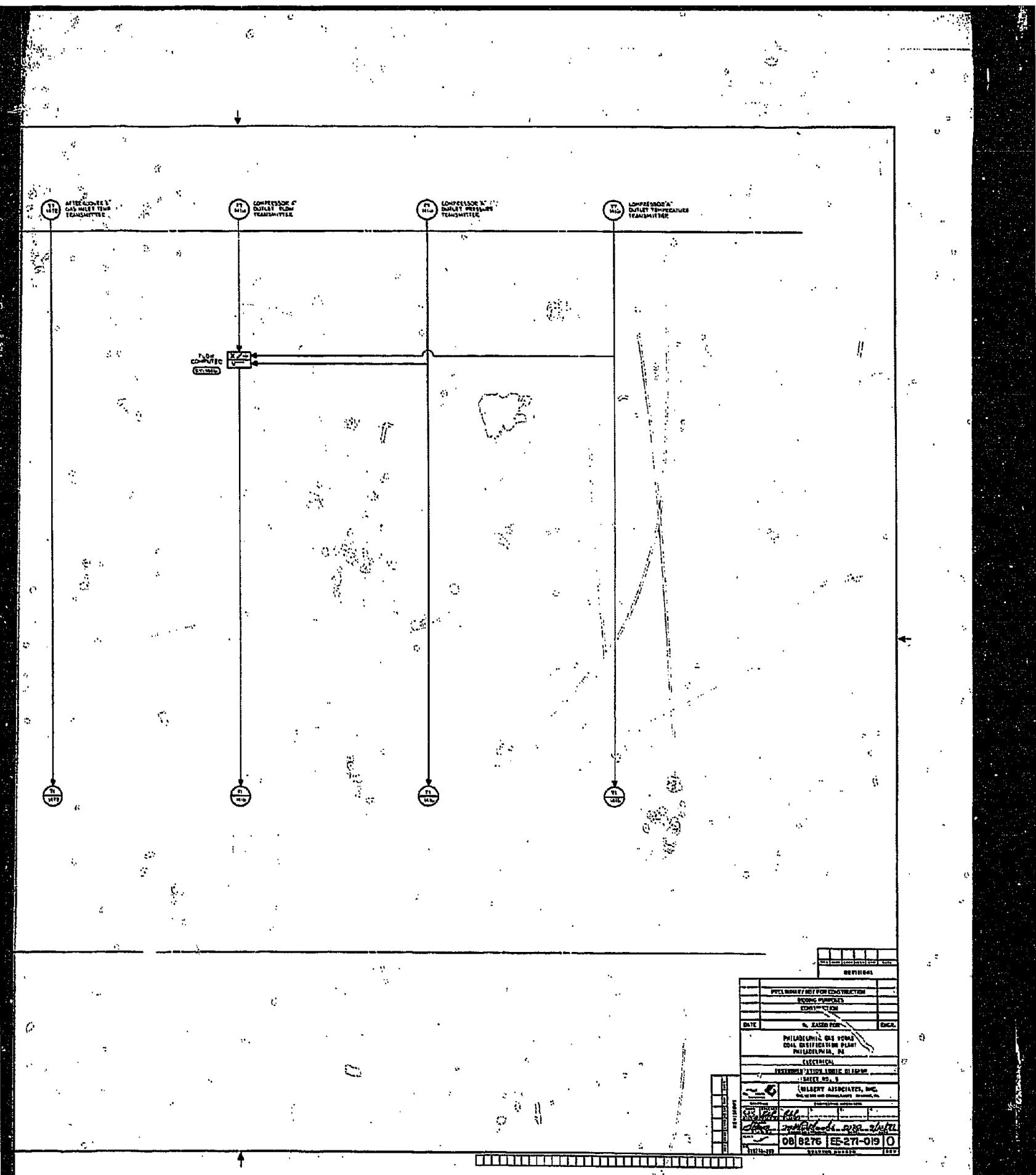


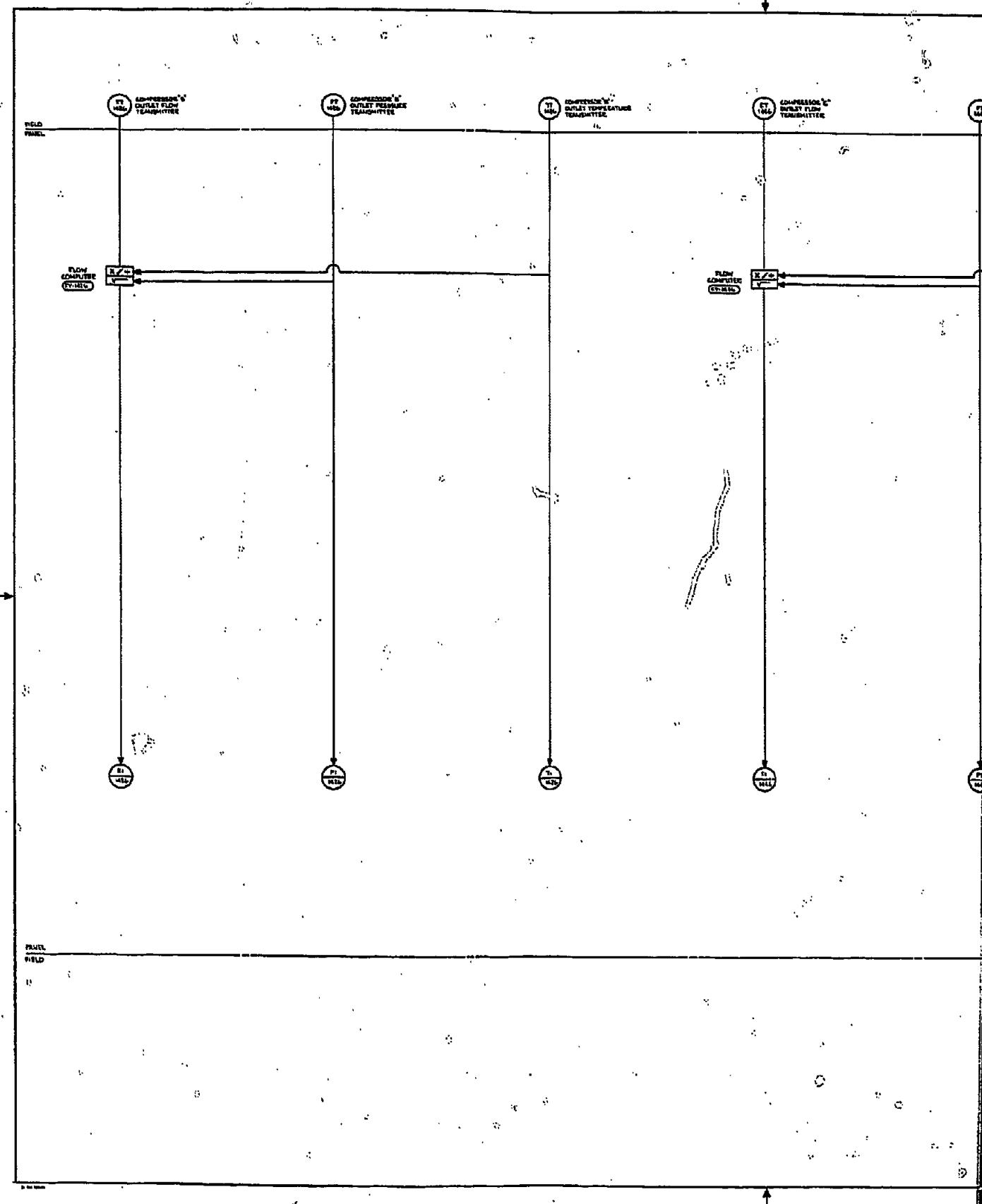


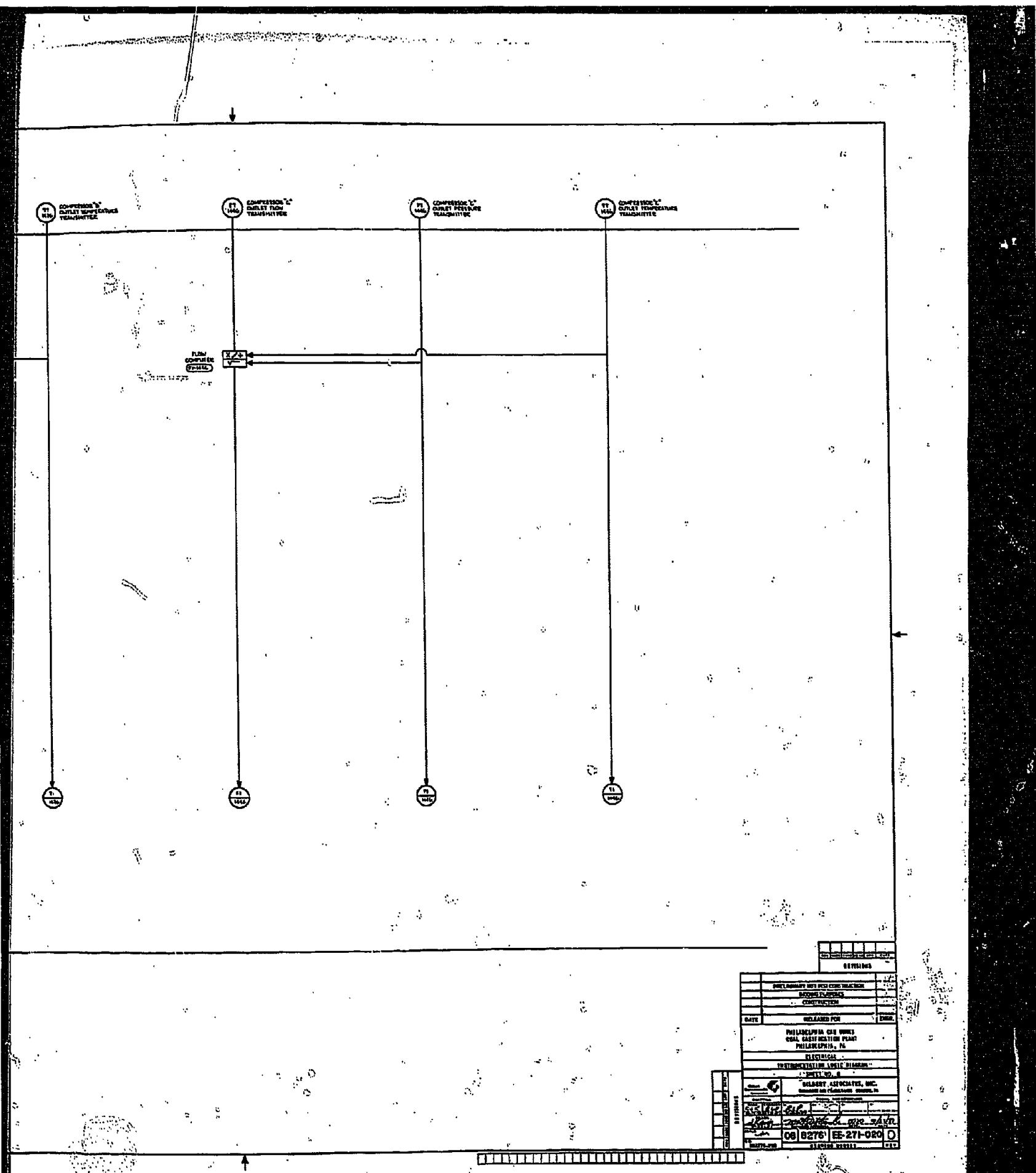


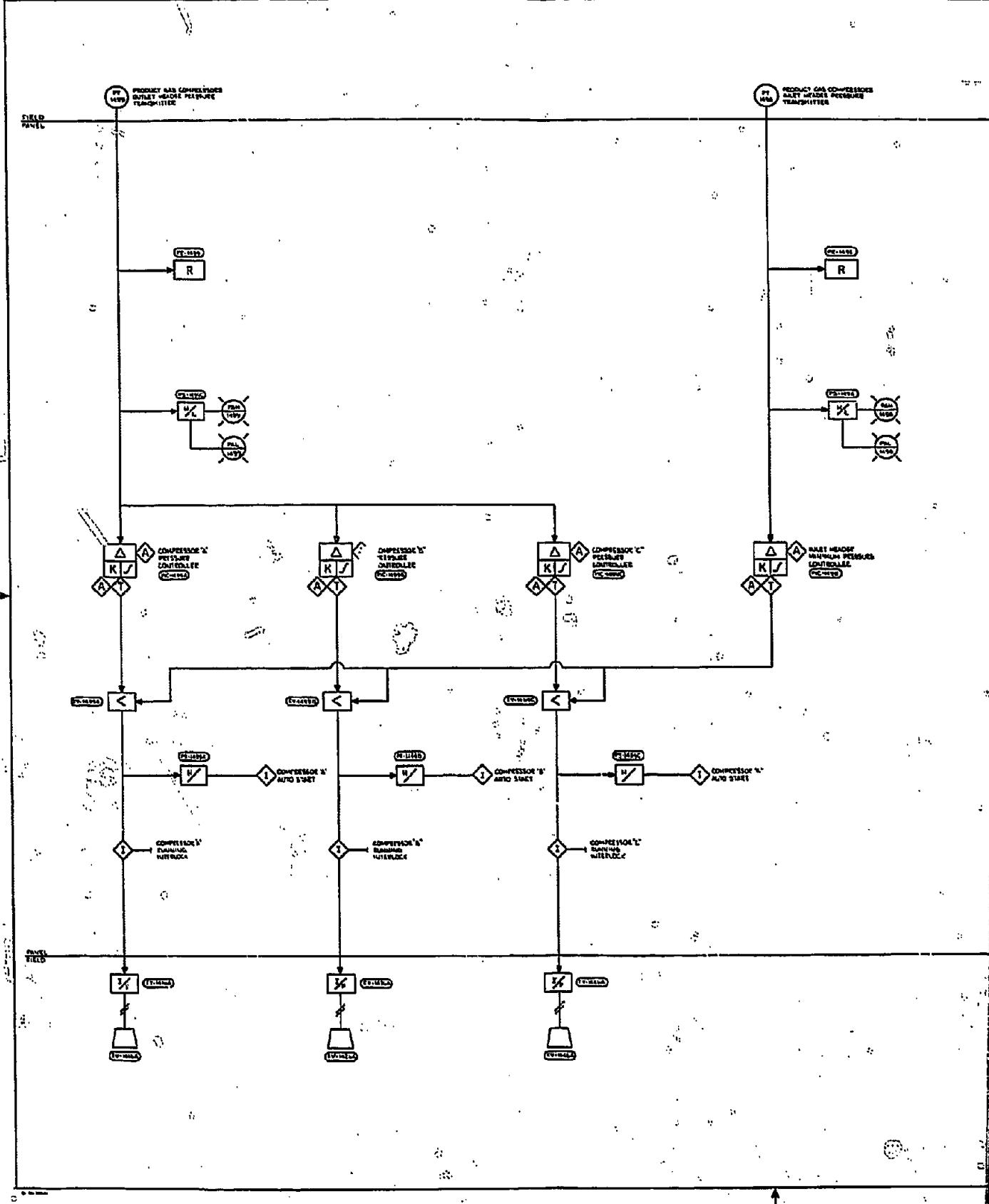


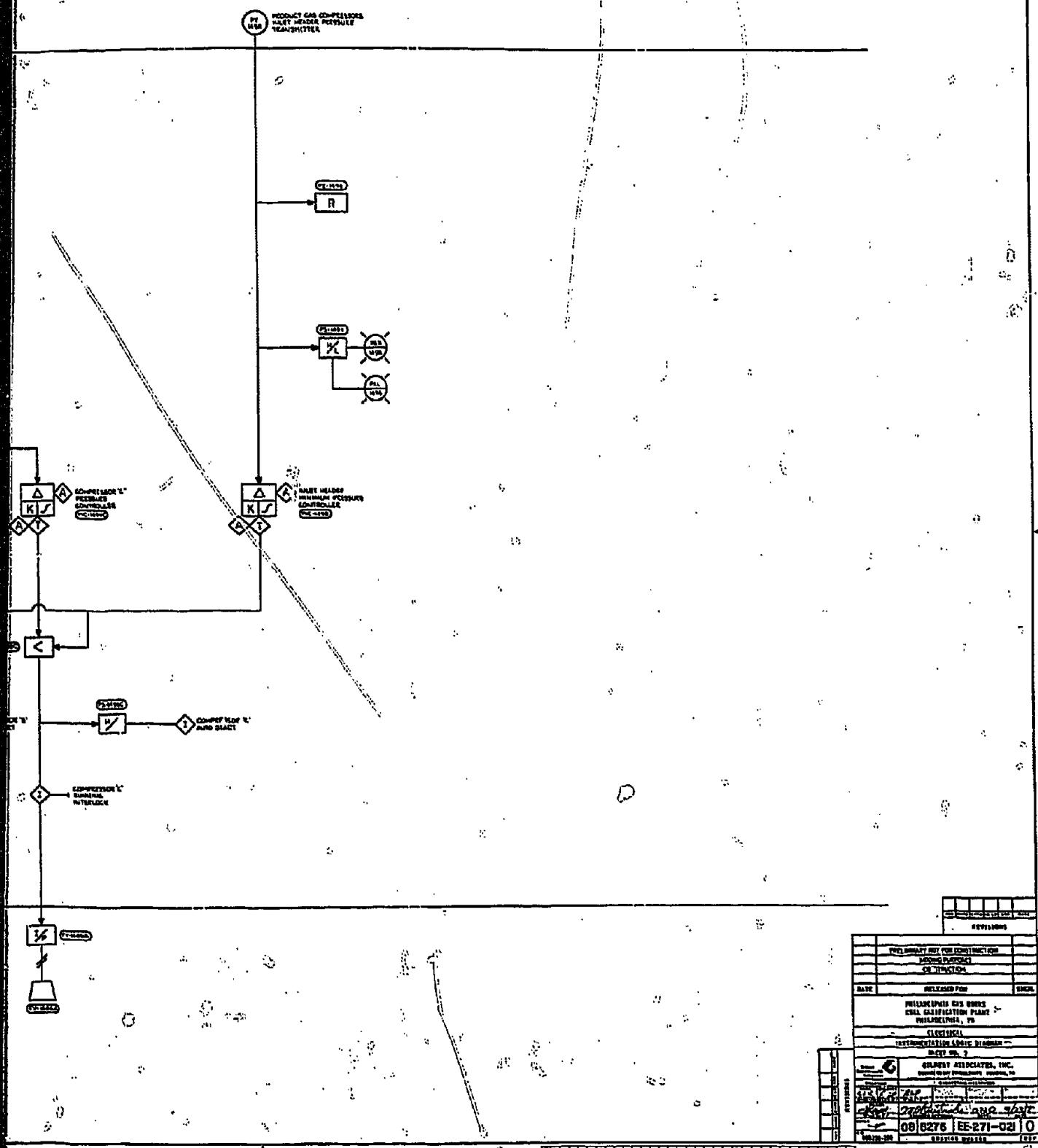


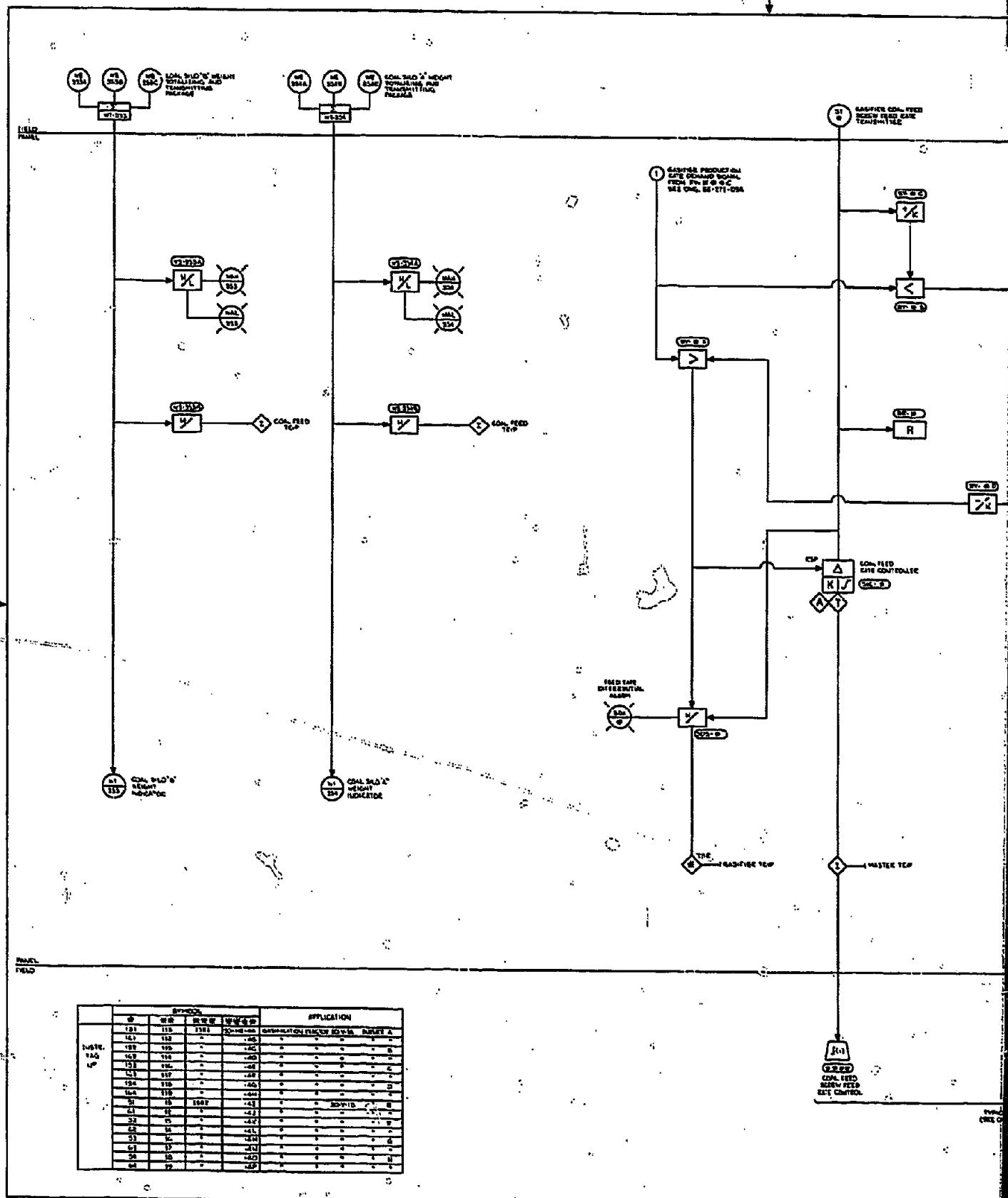


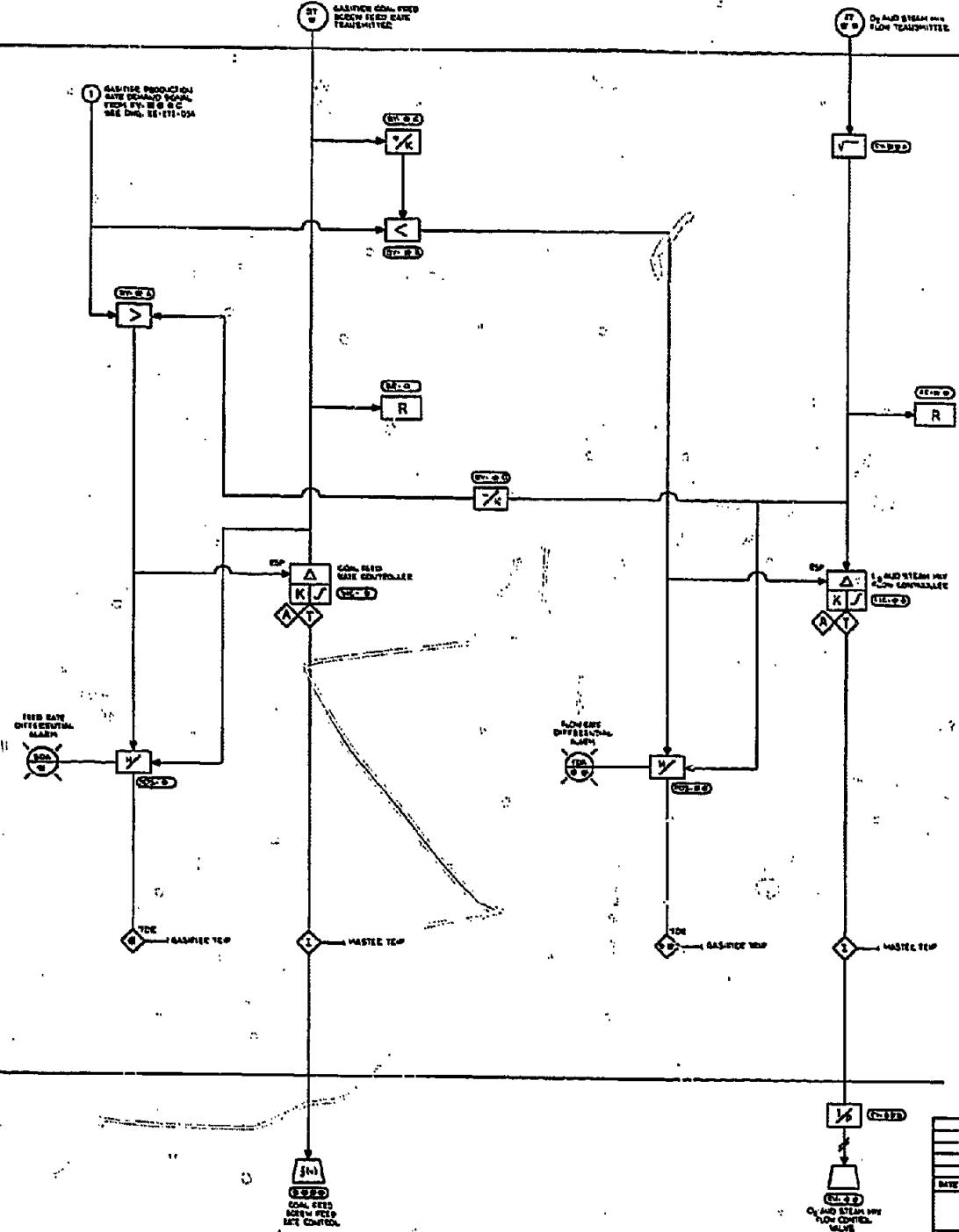






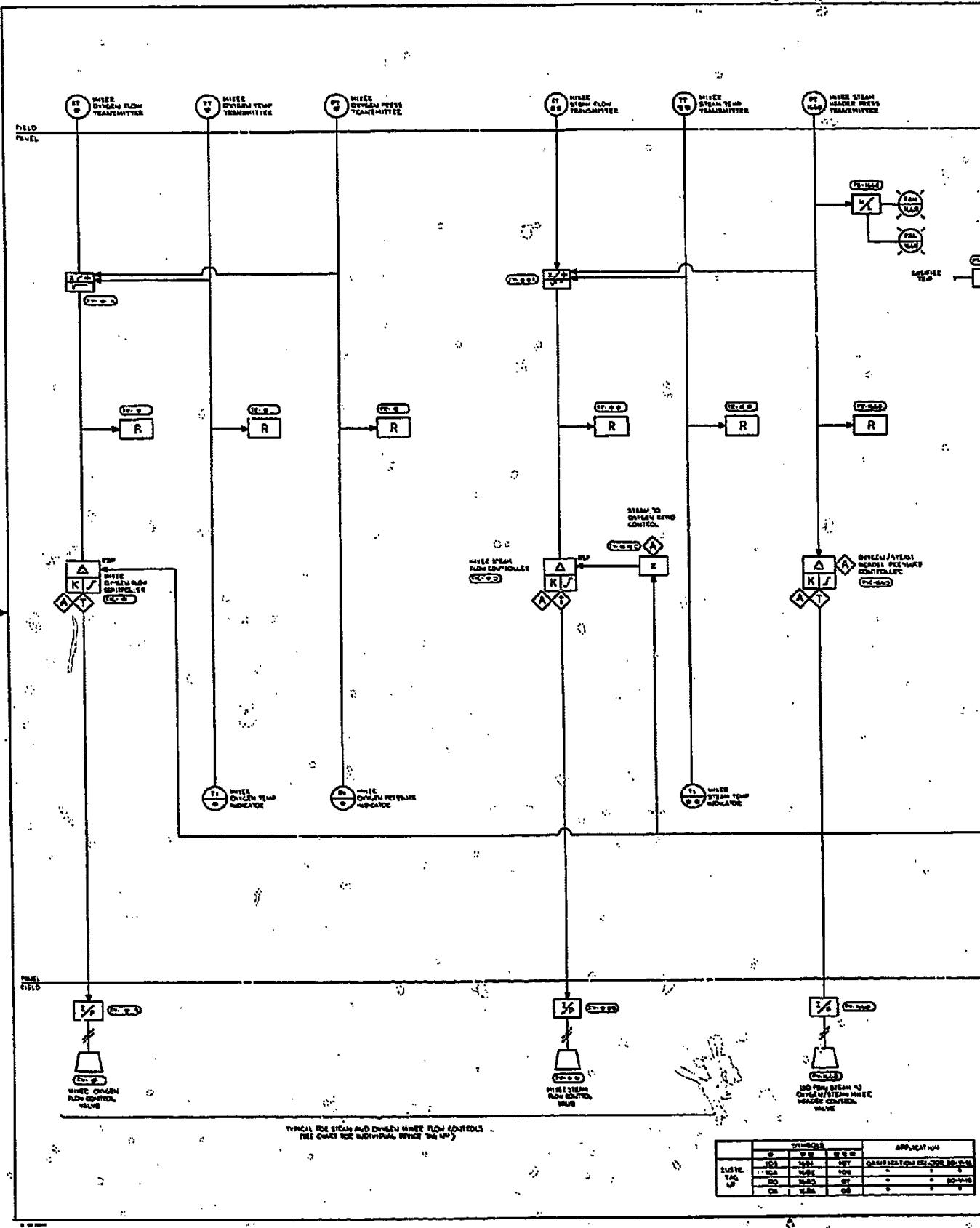




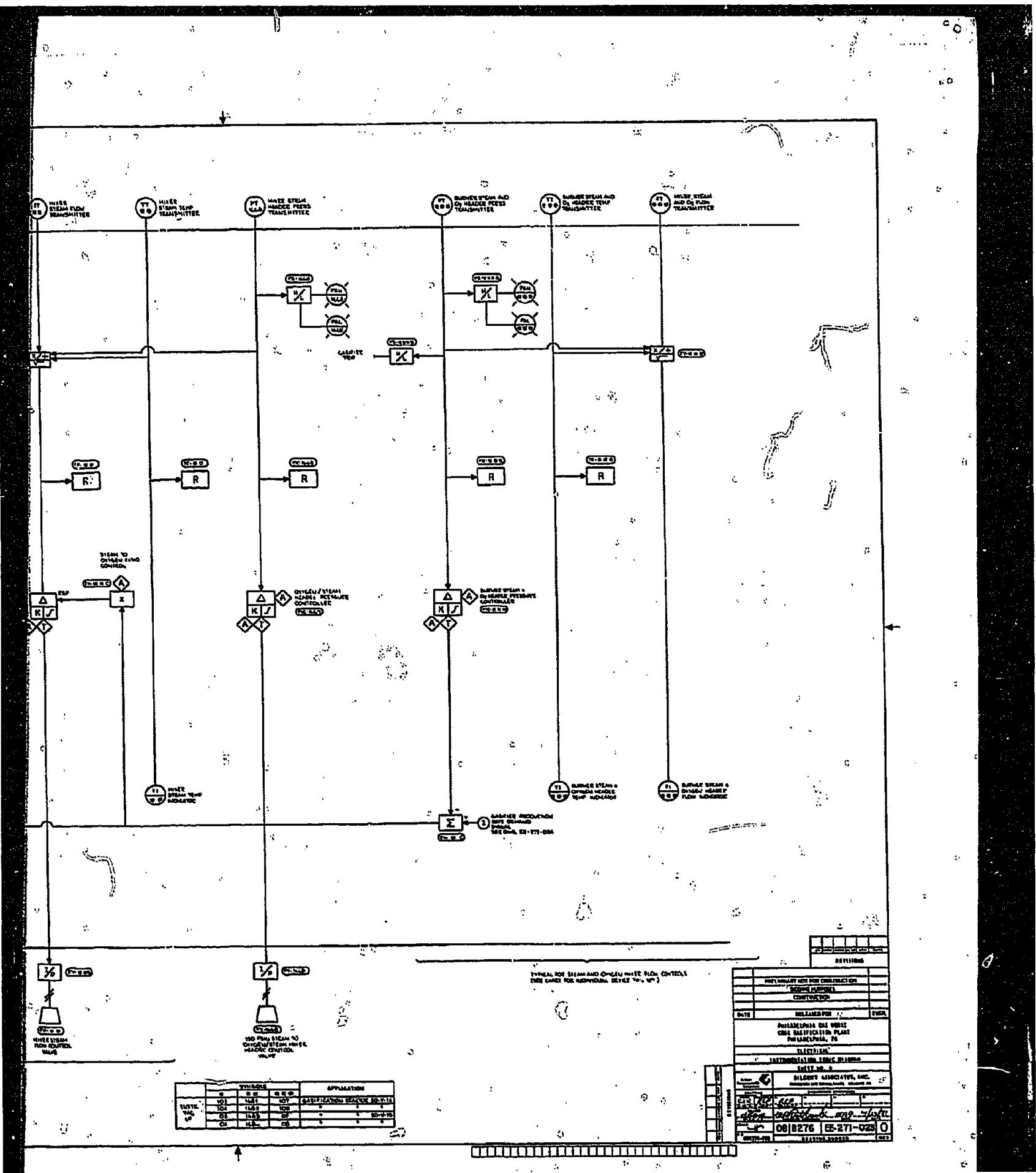


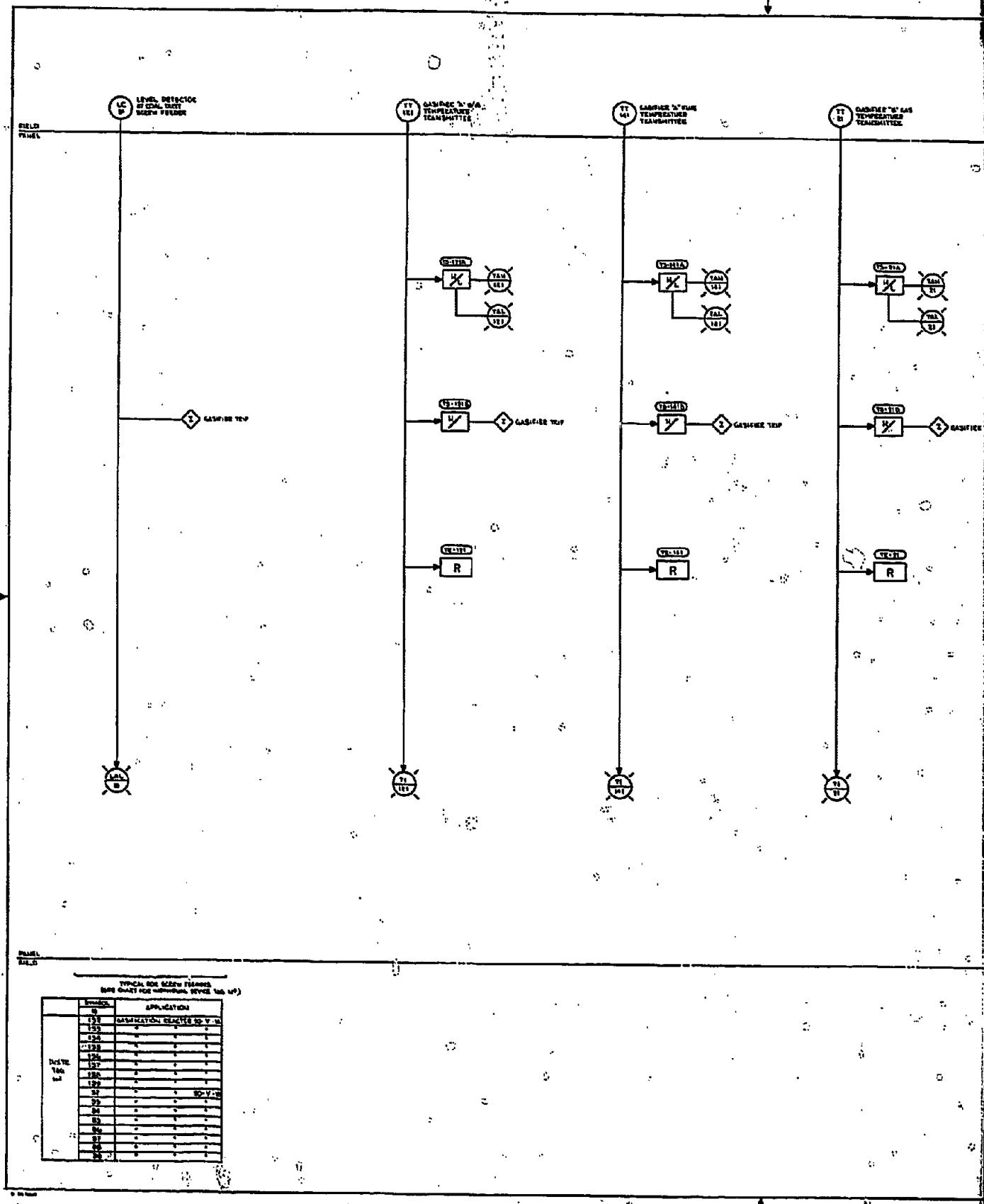
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SEE CHART FOR INDIVIDUAL DEVICE TAG, L.P.C.

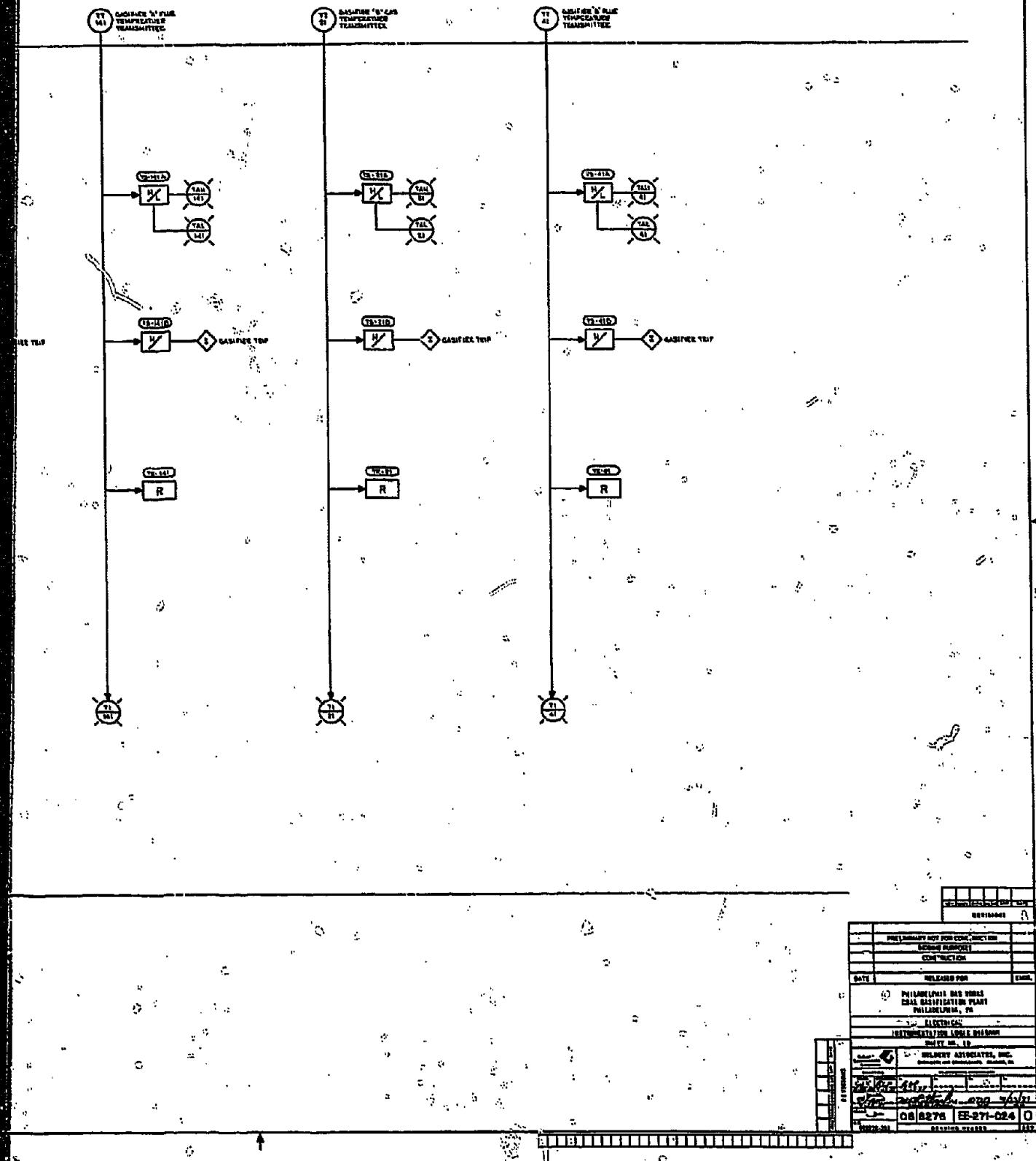
REVISIONS	
PRELIMINARY NOT FOR CONSTRUCTION	
BOTH PURPOSES	
CONSTRUCTION	
DATE	RELEASED FOR
PHILADELPHIA GAS WORKS COAL GASIFICATION PLANT PHILADELPHIA, PA	
ELECTRICAL	
INTERDISCIPLINARY APPROVALS	
PVN VOL. 2	
GENERAL CONTRACTOR, INC. PHILADELPHIA, PA	
08-8278 55-271-020	

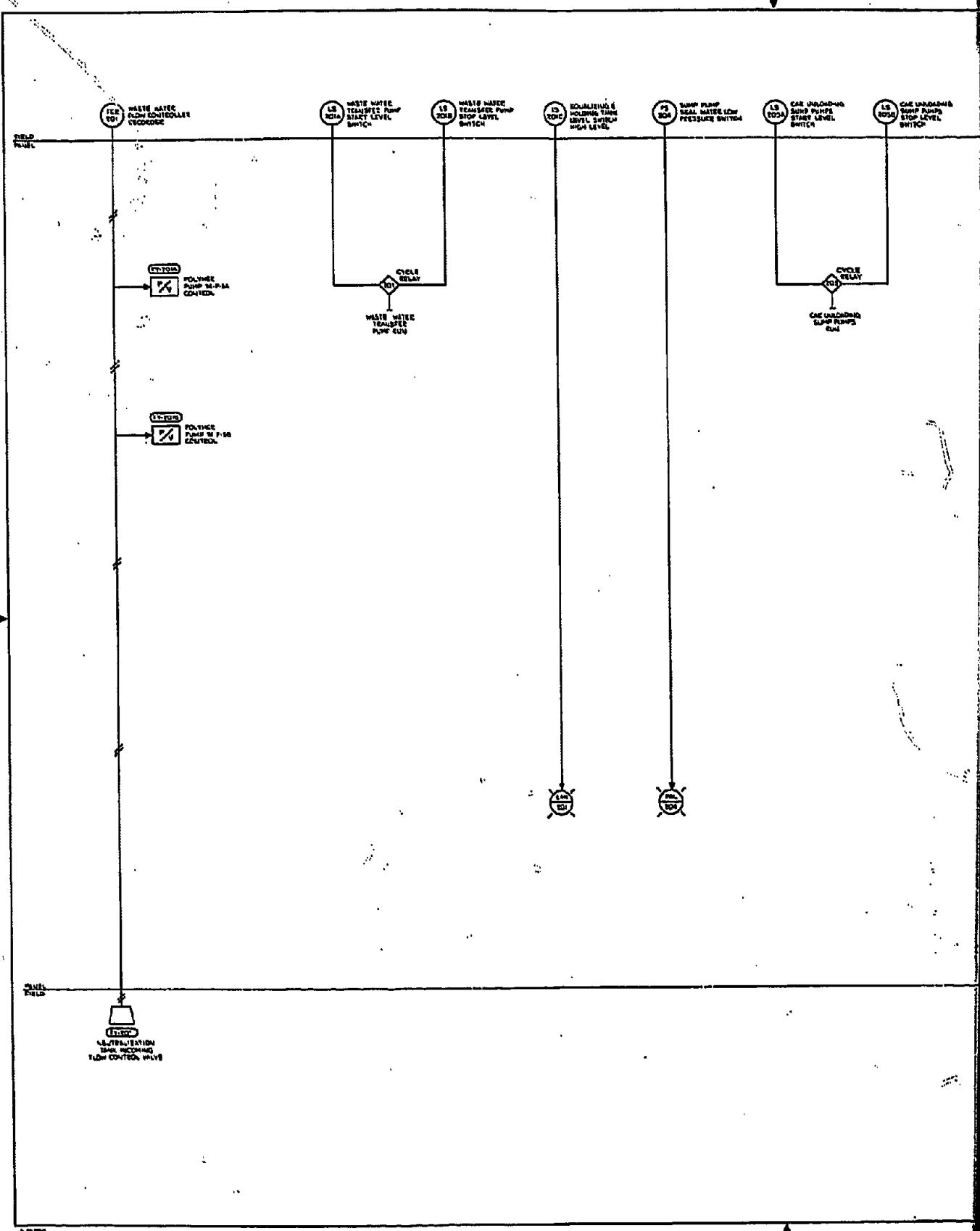


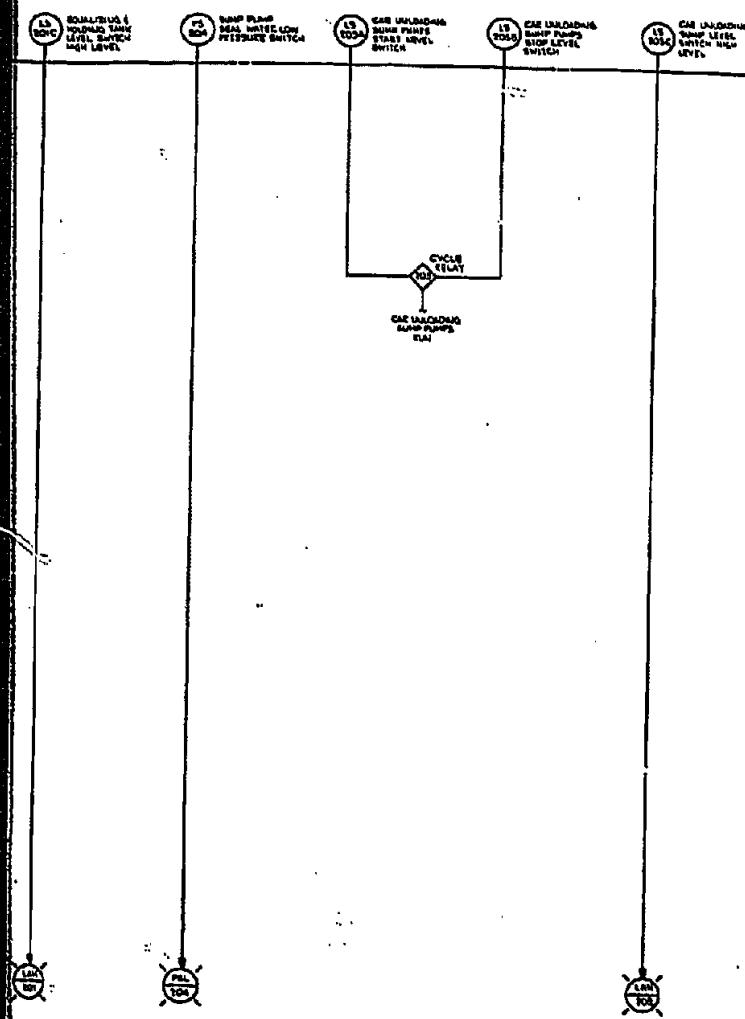
	SYMBOLS			APPLICATION
	①	②	③	
LUSTRE TAG #6	100	100%	NET	CALCIFICATION EXC. 100-10-10
	100	100%	100%	-
	100	100%	100%	-
	100	100%	99%	-
	100	100%	98%	-
	100	100%	97%	-



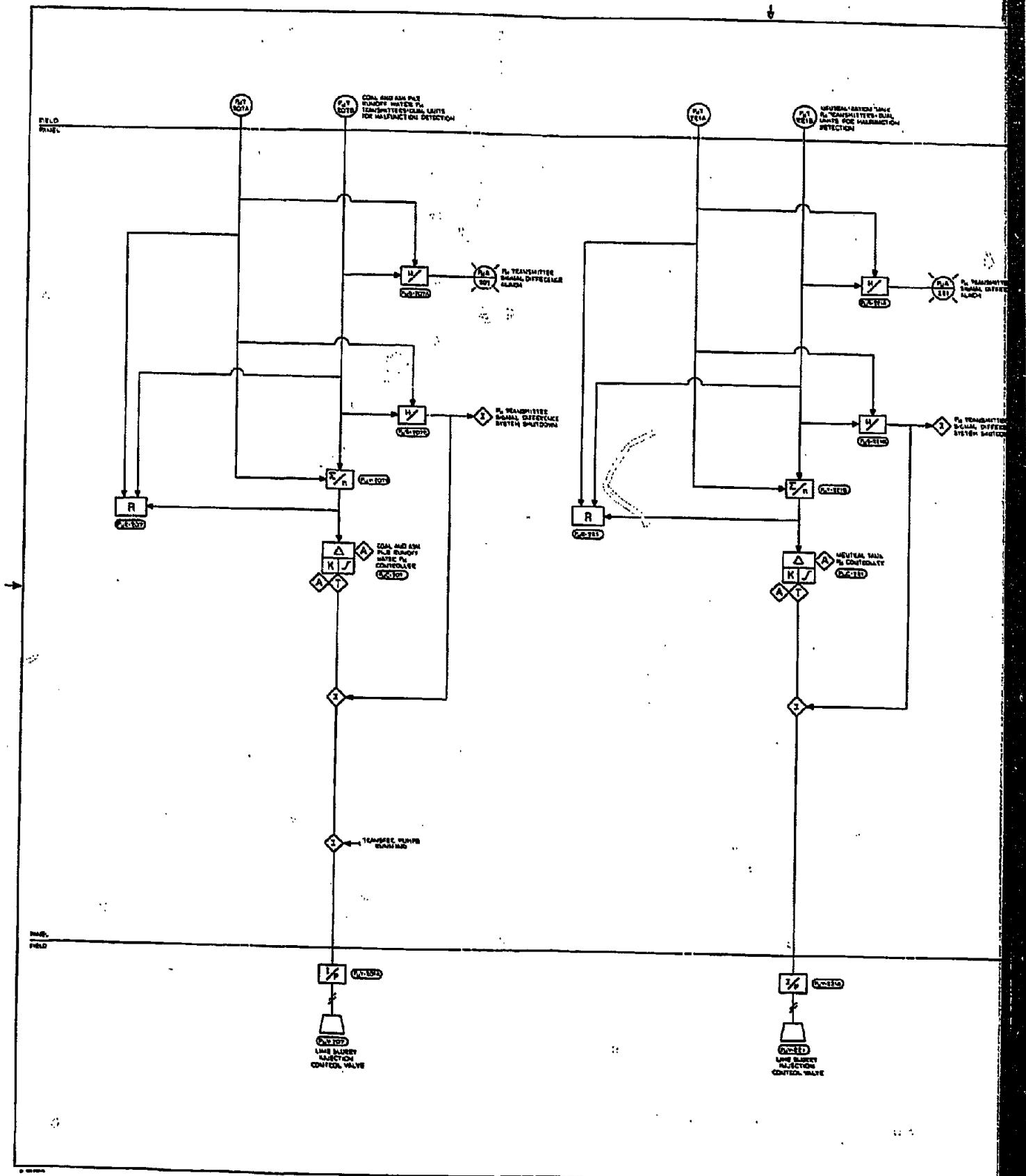


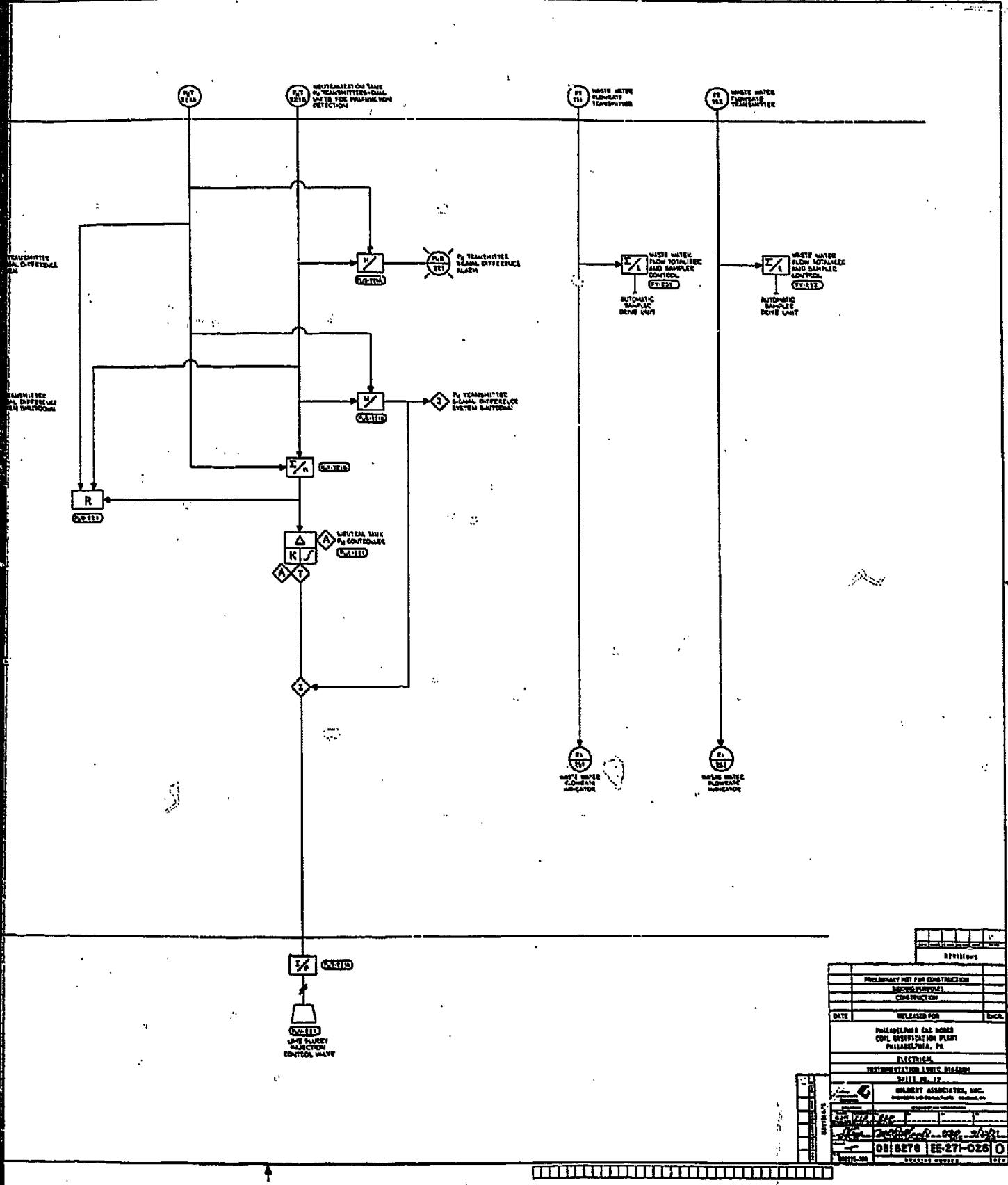


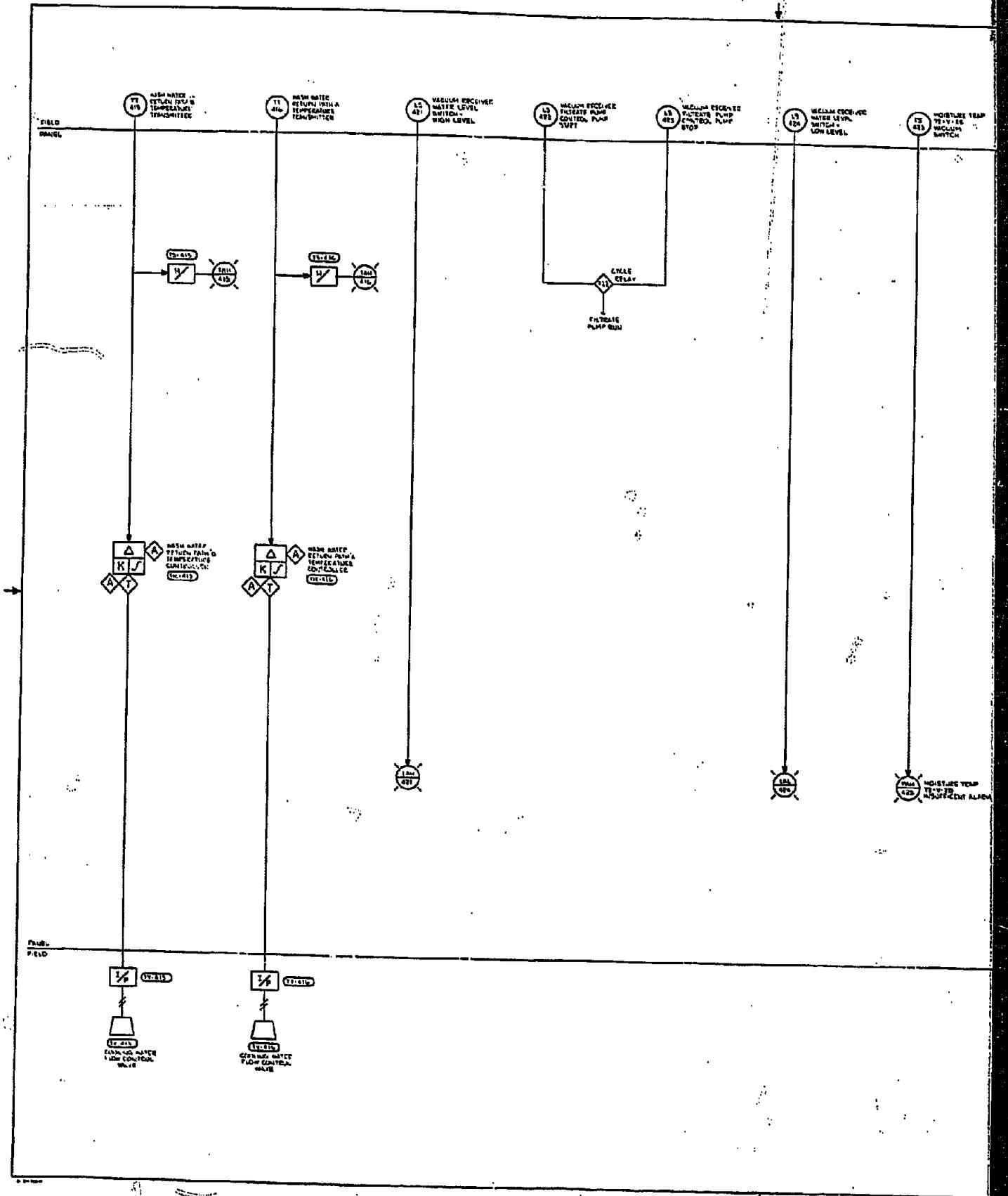


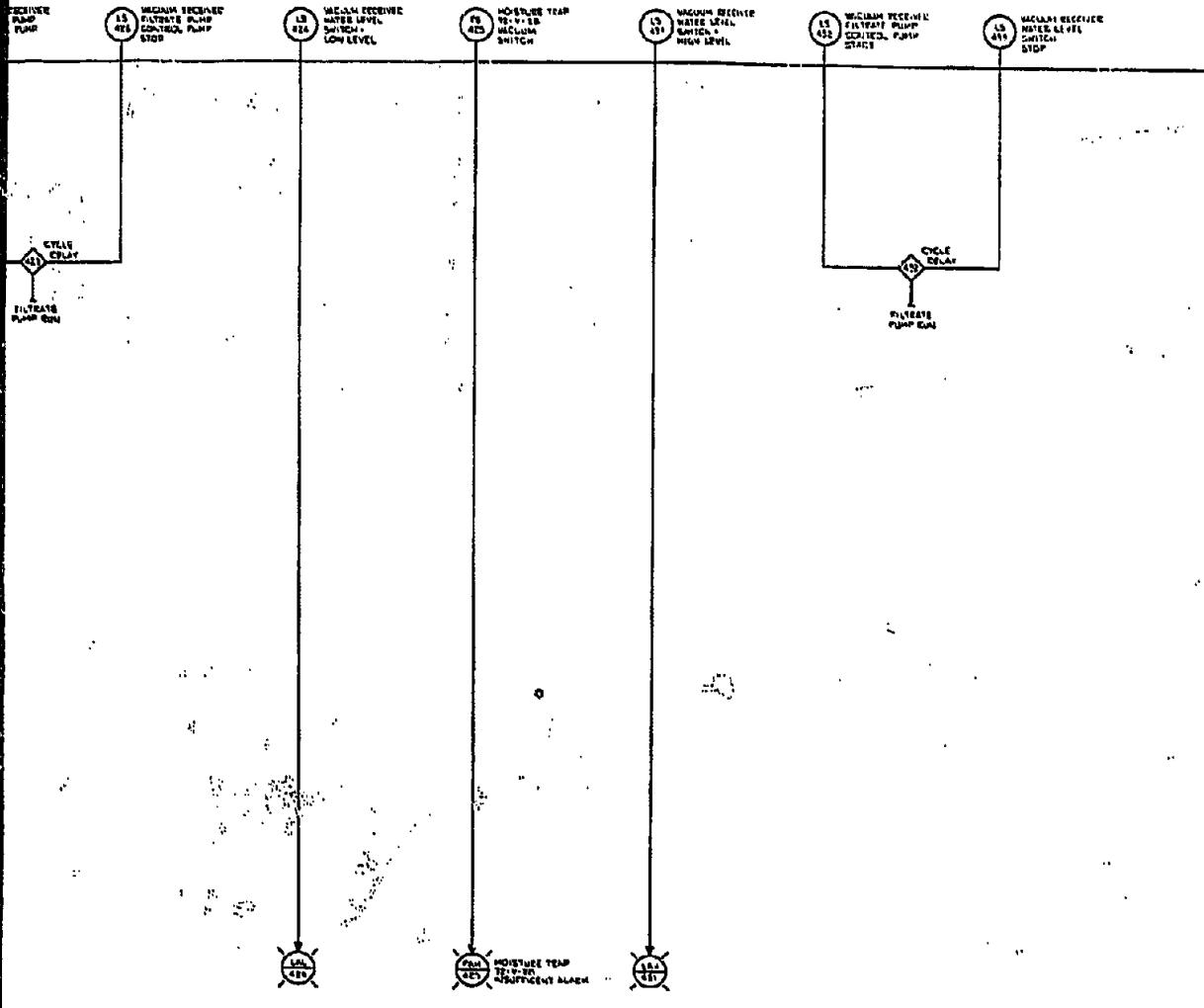


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DESIGN PHASES	
CONSTRUCTION	
DATE	RELEASED FOR
PHILADELPHIA GAS WORKS ONE MASTERSIDE WAY PHILADELPHIA, PA	
ELECTRICAL	
INTERGRAL SYSTEMS SCH 10, II	
GILBERT ASSOCIATES, INC. 1000 MARKET STREET, SUITE 1000 PHILADELPHIA, PA 19107	
DATE ISSUED	10/10/01
REVISION NUMBER	1
ISSUE NUMBER	1
EXPIRATION DATE	10/10/02
08 6276 EE-271-025 O	
PRINTED ON 10/10/01	

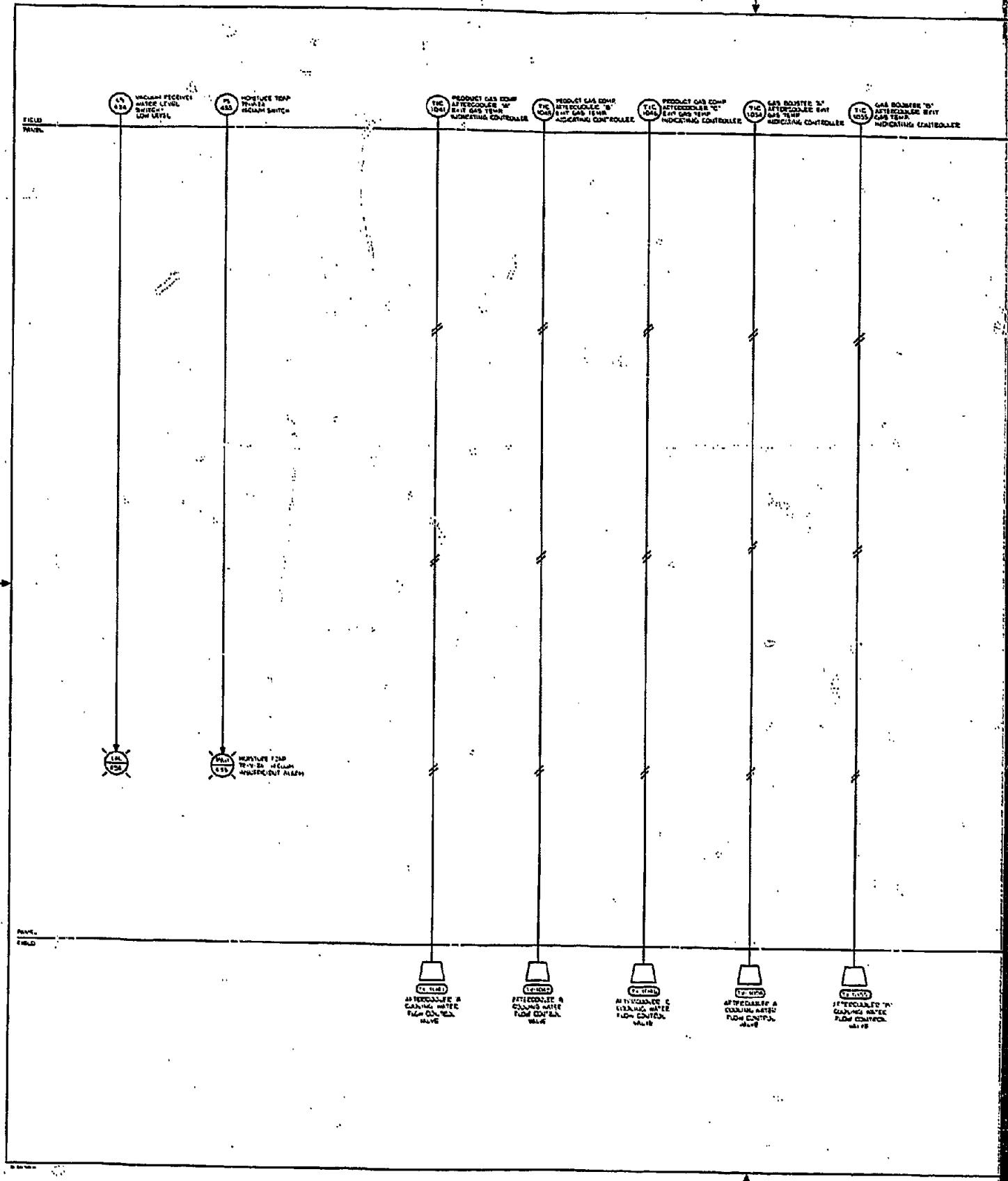








DATE	RELEASER FOR	CHG#
PHILADELPHIA GAS WORKS COAL GASIFICATION PLANT PHILADELPHIA, PA		
ELECTRICAL		
INSTRUMENTATION, LIGHTING, POWER		
WHT NO. 15		
GILBERT ASSOCIATES, INC. 600 DEADERICK ST. BALTIMORE, MD 21202		
PHILADELPHIA GAS WORKS COAL GASIFICATION PLANT PHILADELPHIA, PA		
DB 8276 EE-271-027		



D
PRODUCT GAS COMP
AFTERCOOLER "C"
PRODUCT GAS TEMP
INDICATING CONTROLLER

PRODUCT GAS COMP
AFTERCOOLER "C"
PRODUCT GAS TEMP
INDICATING CONTROLLER

GAS BOOSTER "B"
AFTERCOOLER EXIT
GAS TEMP
INDICATING CONTROLLER

GAS BOOSTER "B"
AFTERCOOLER EXIT
GAS TEMP
INDICATING CONTROLLER

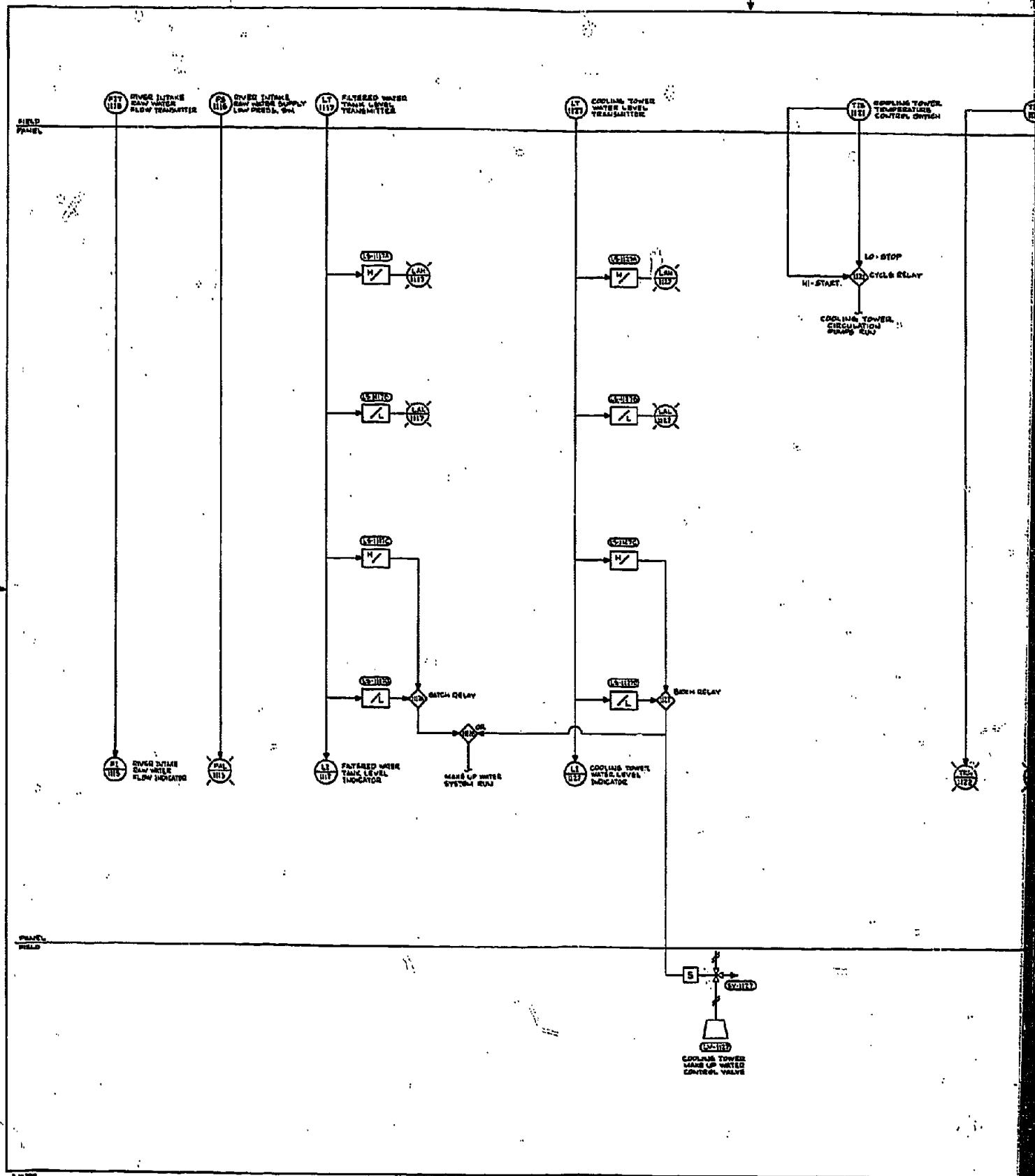
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AFTERCOOLER "C"
COOLING WATER
FLOW CONTROL VALVE

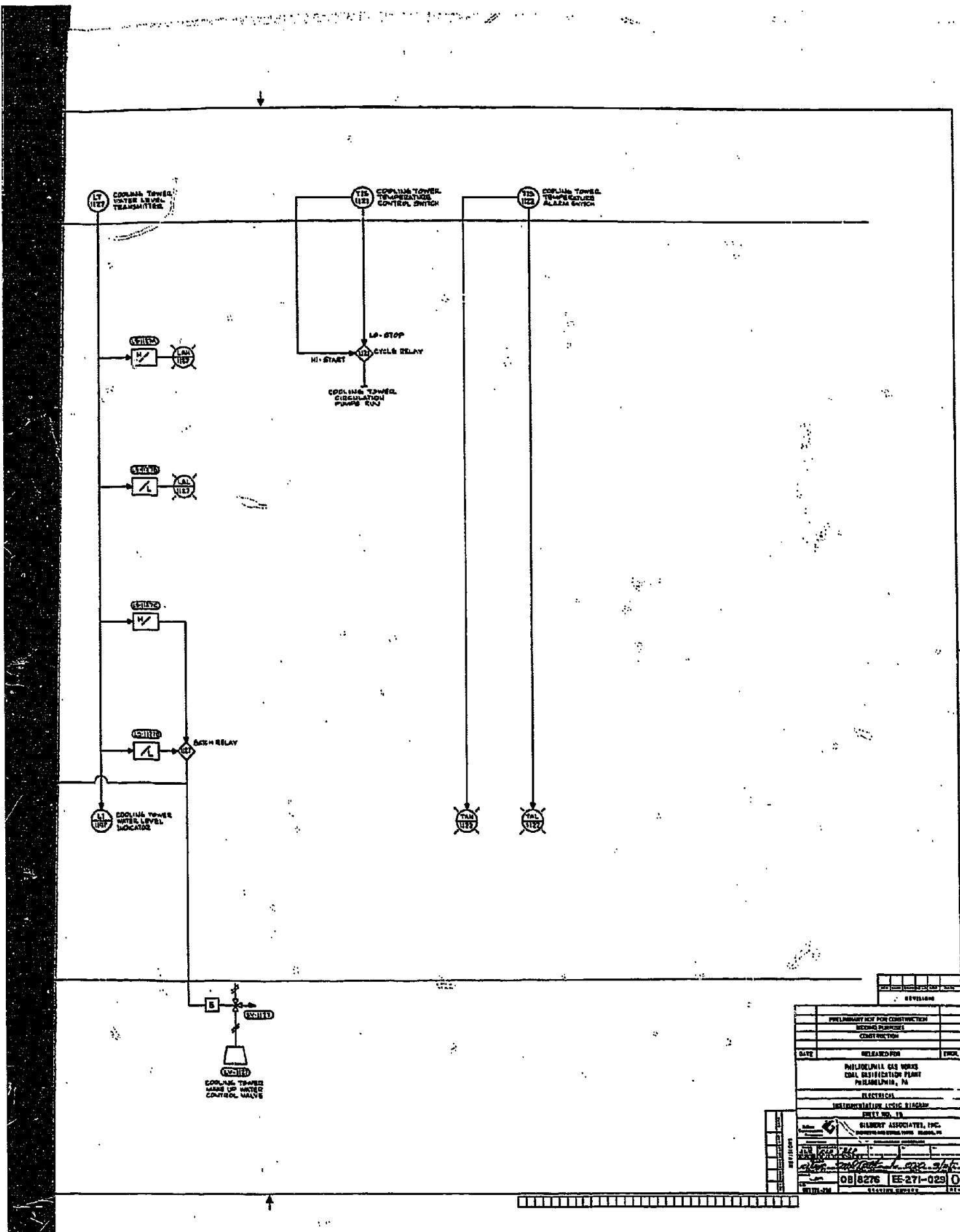
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AFTERCOOLER "C"
COOLING WATER
FLOW CONTROL VALVE

101002
AFTERCOOLER "C"
COOLING WATER
FLOW CONTROL VALVE

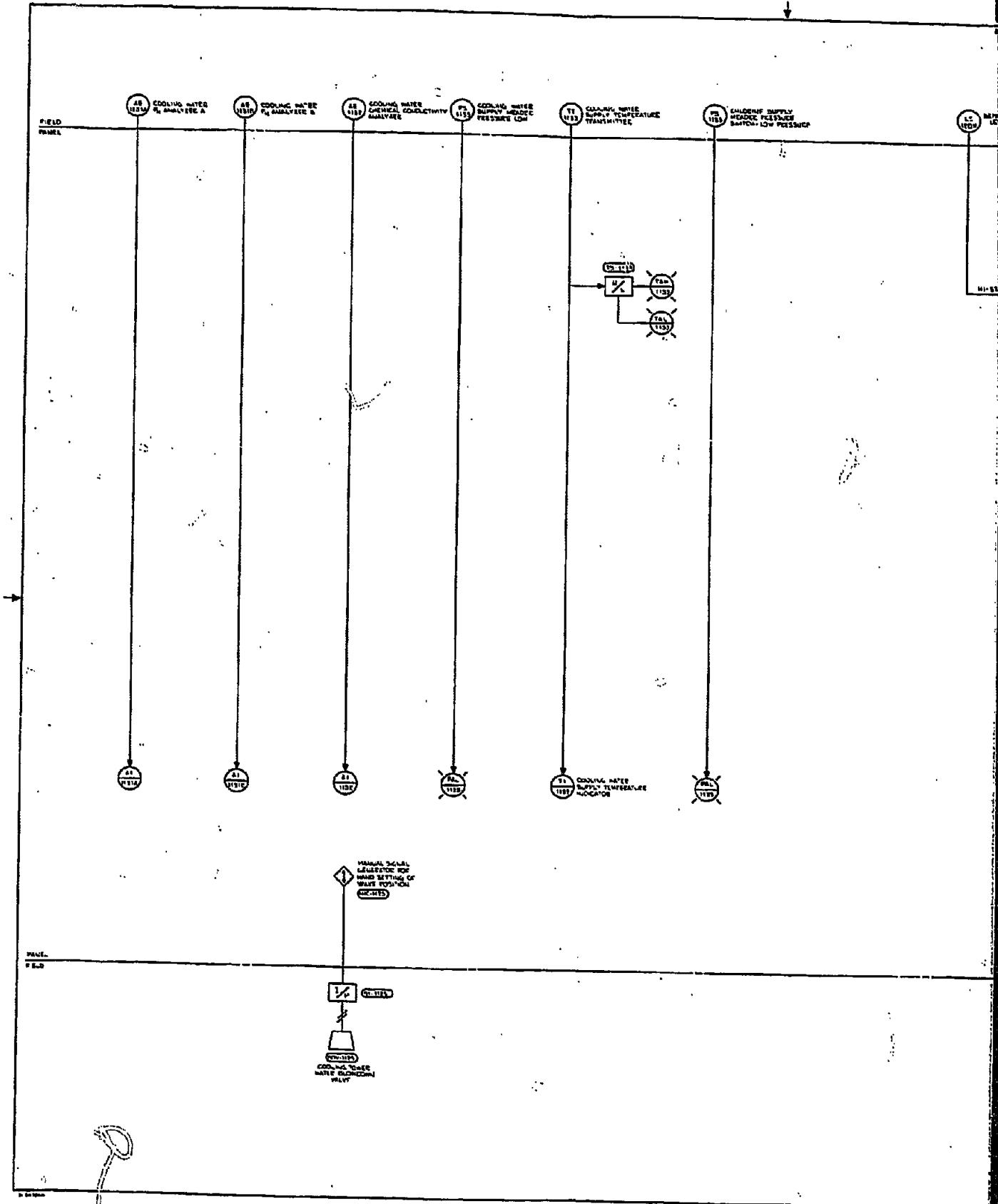
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FLOW CONTROL VALVE

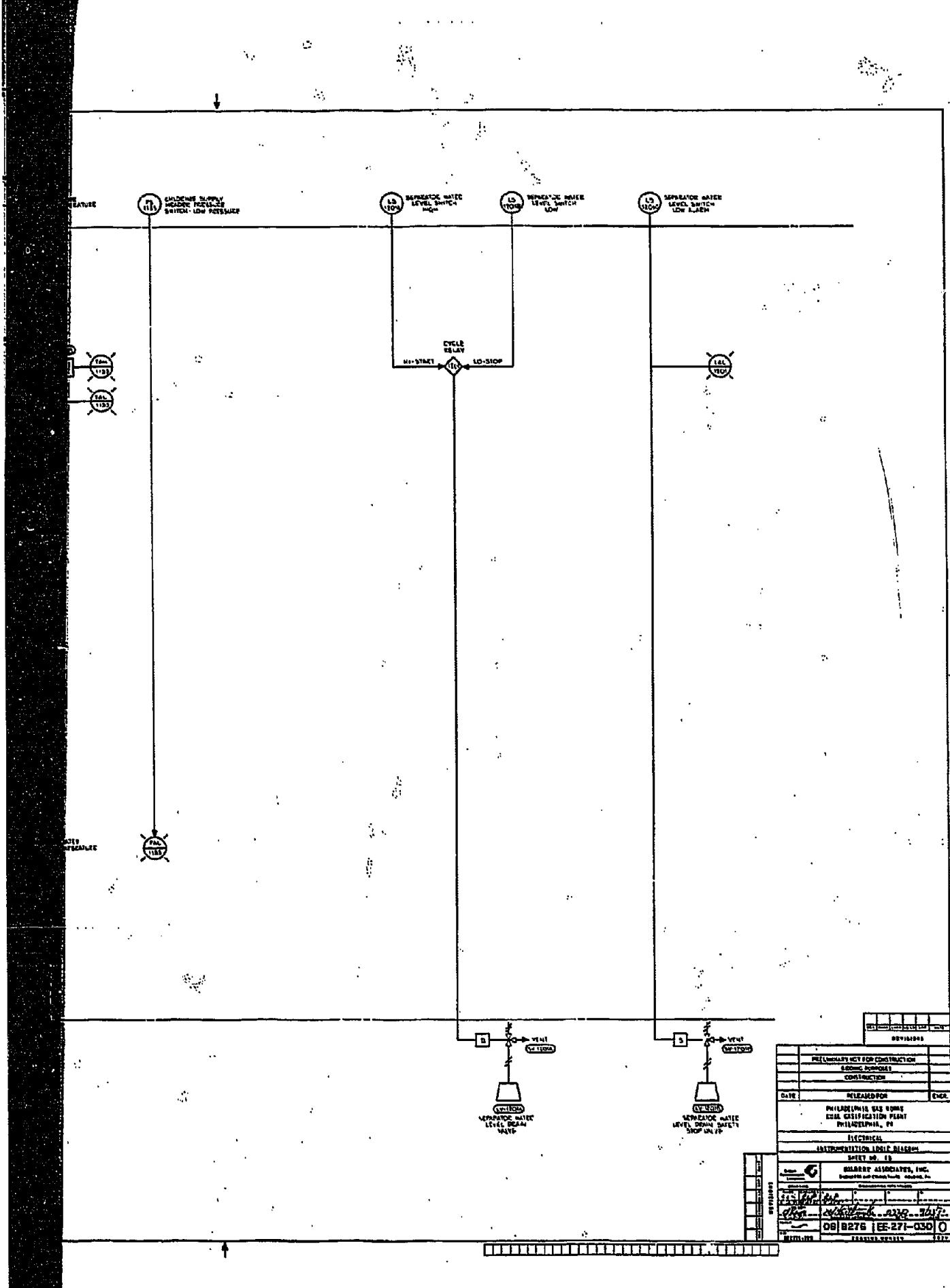
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PHILADELPHIA GAS WORKS CHALMERS PLANT PHILADELPHIA, PA		
ELECTRICAL		
DATE NO. 12		
SILENT ASSOCIATES, INC.		
GENERAL CONTRACTORS		
CONTRACT NO.	0818276	0818276-028
EXPIRATION DATE		



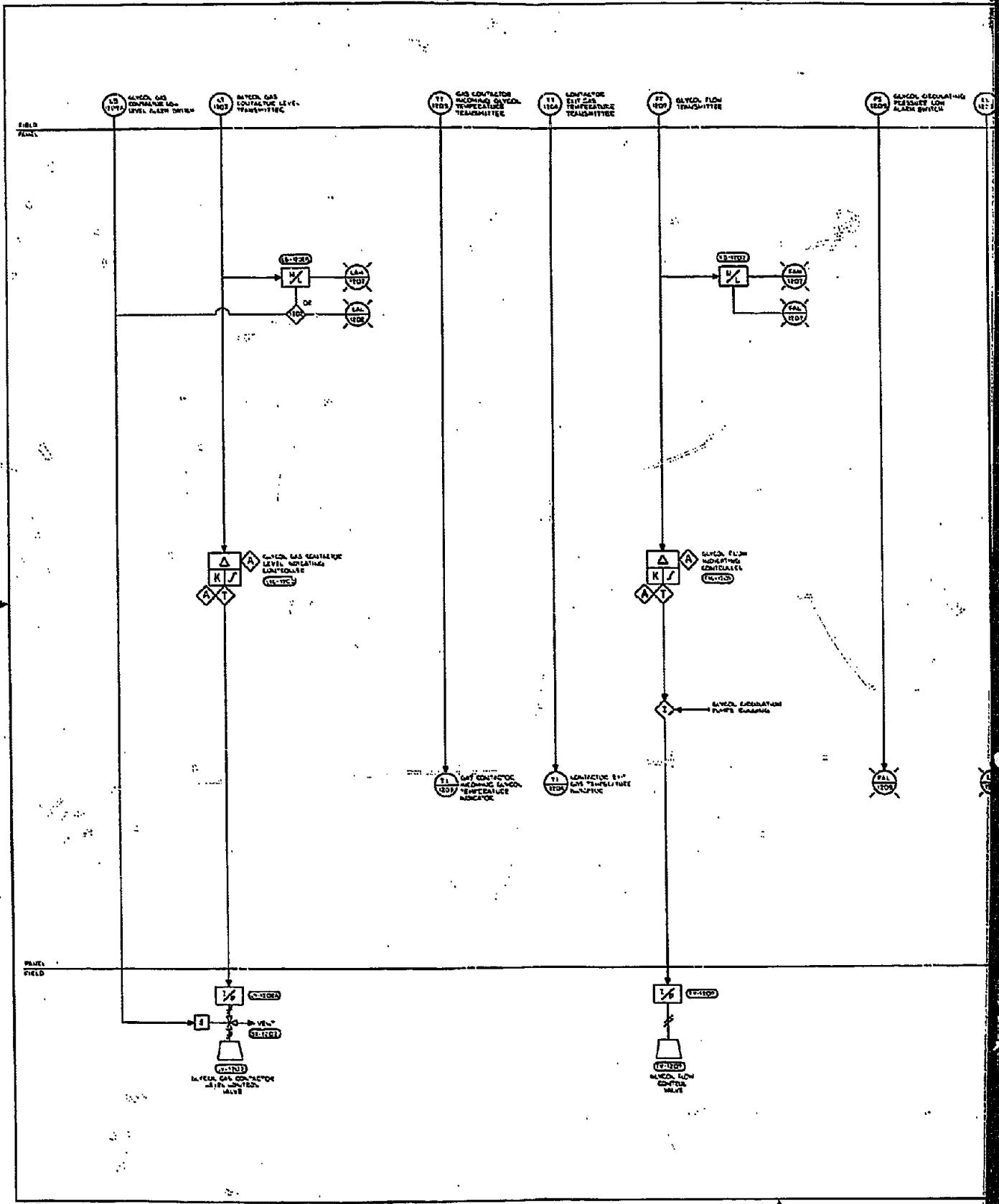


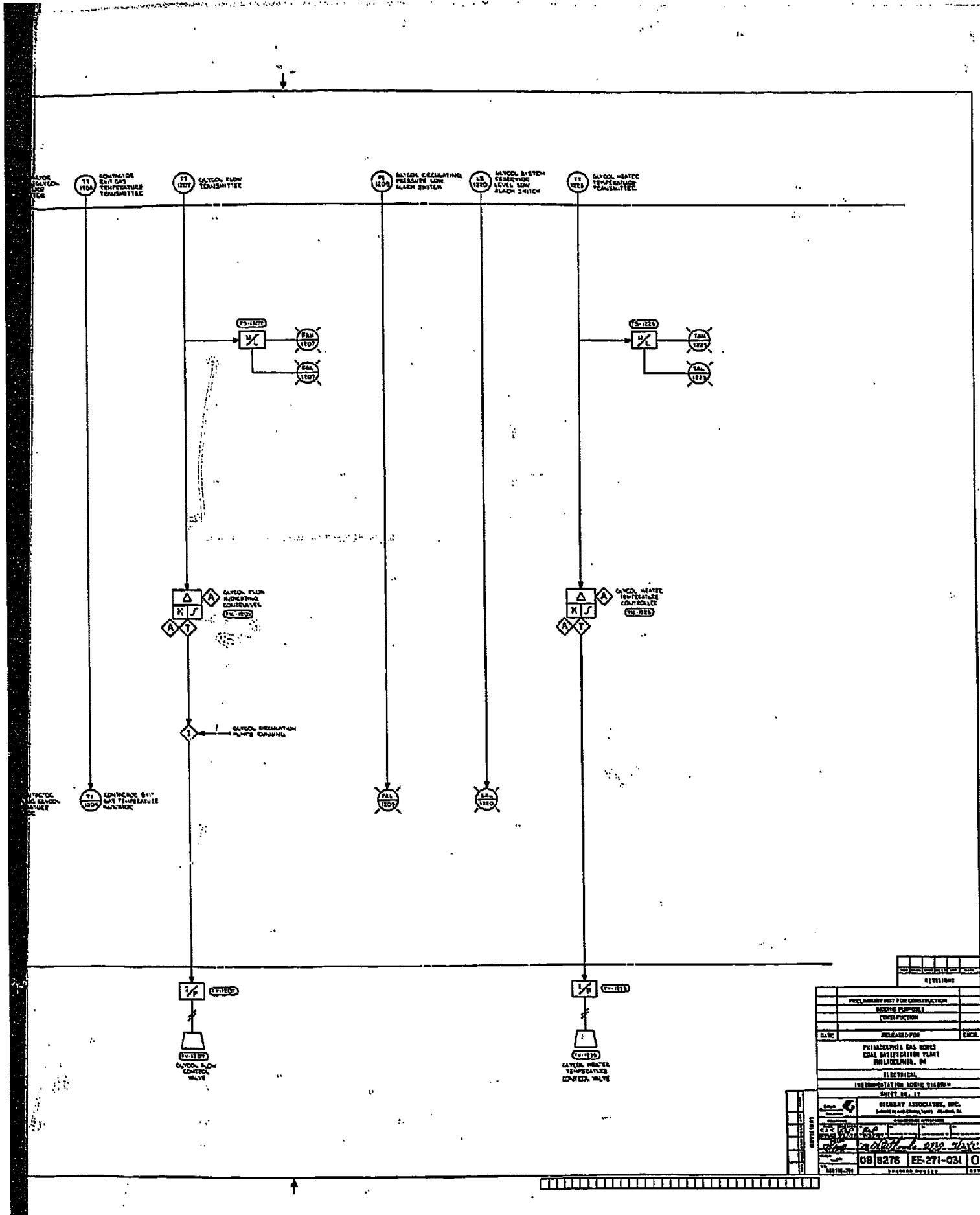
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PENNSYLVANIA RPP FOR CONSTRUCTION SECOND PLANT CONSTRUCTION	
DATE	RELEASED FOR
PHILADELPHIA GAS WORKS COAL CLASSIFICATION PLANT PHILADELPHIA, PA	
ELECTRICAL	
INTEGRATION LOGIC DIAGRAM	
CET 100, TA	
SILENT ASSOCIATES, INC. 1000 MARKET STREET, SUITE 1000 PHILADELPHIA, PA 19107	
APR 1976	EE-271-029
OB 8276	O

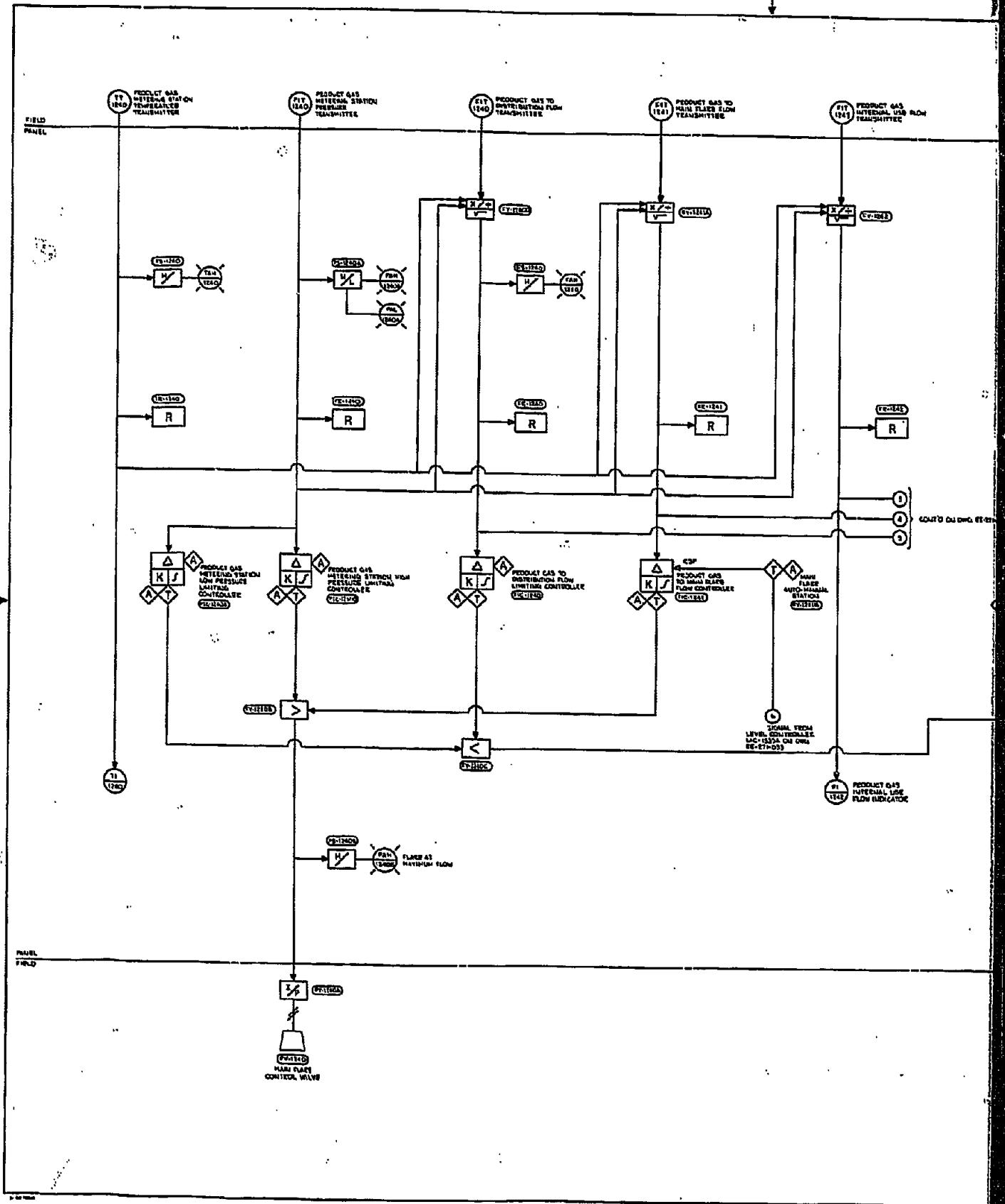


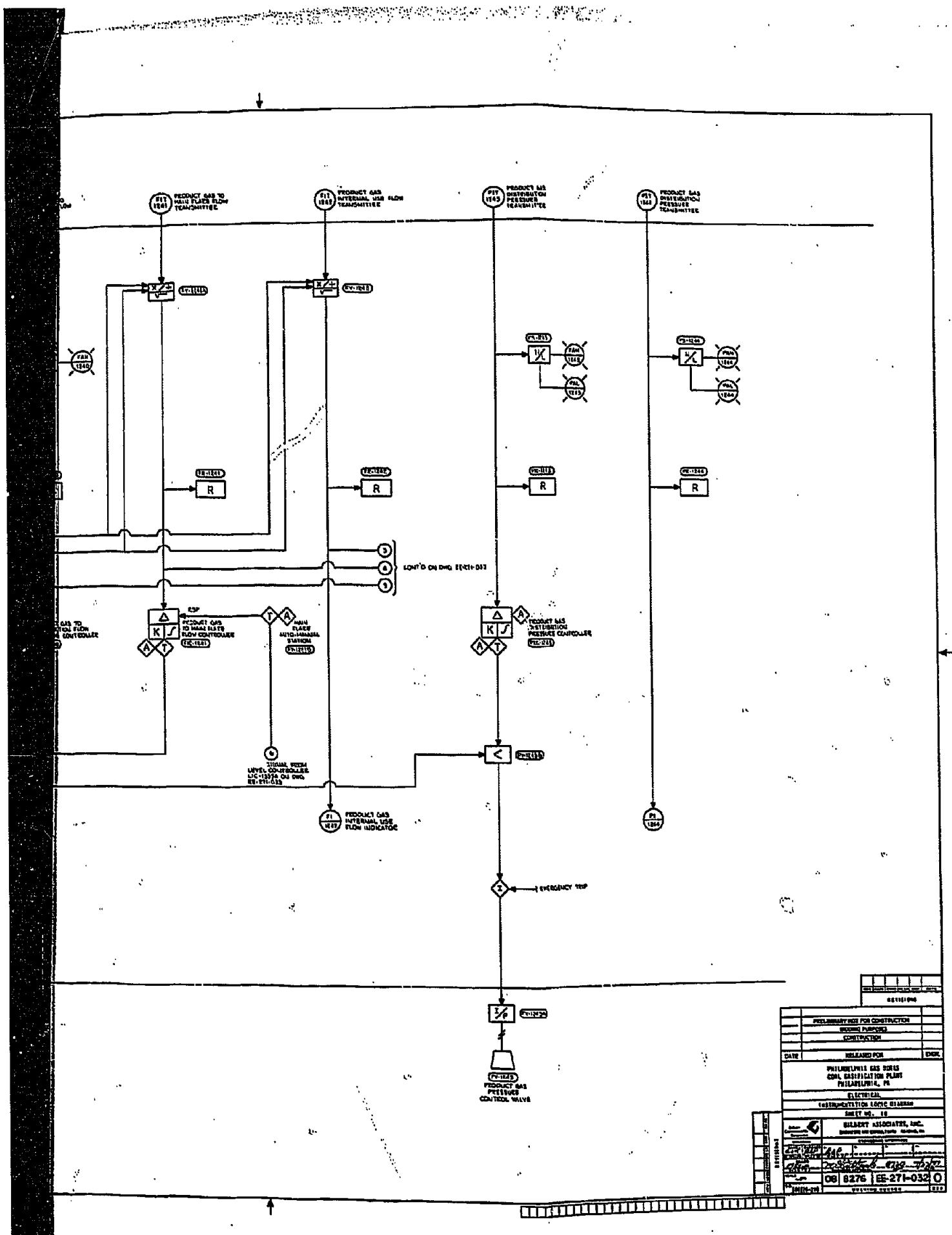


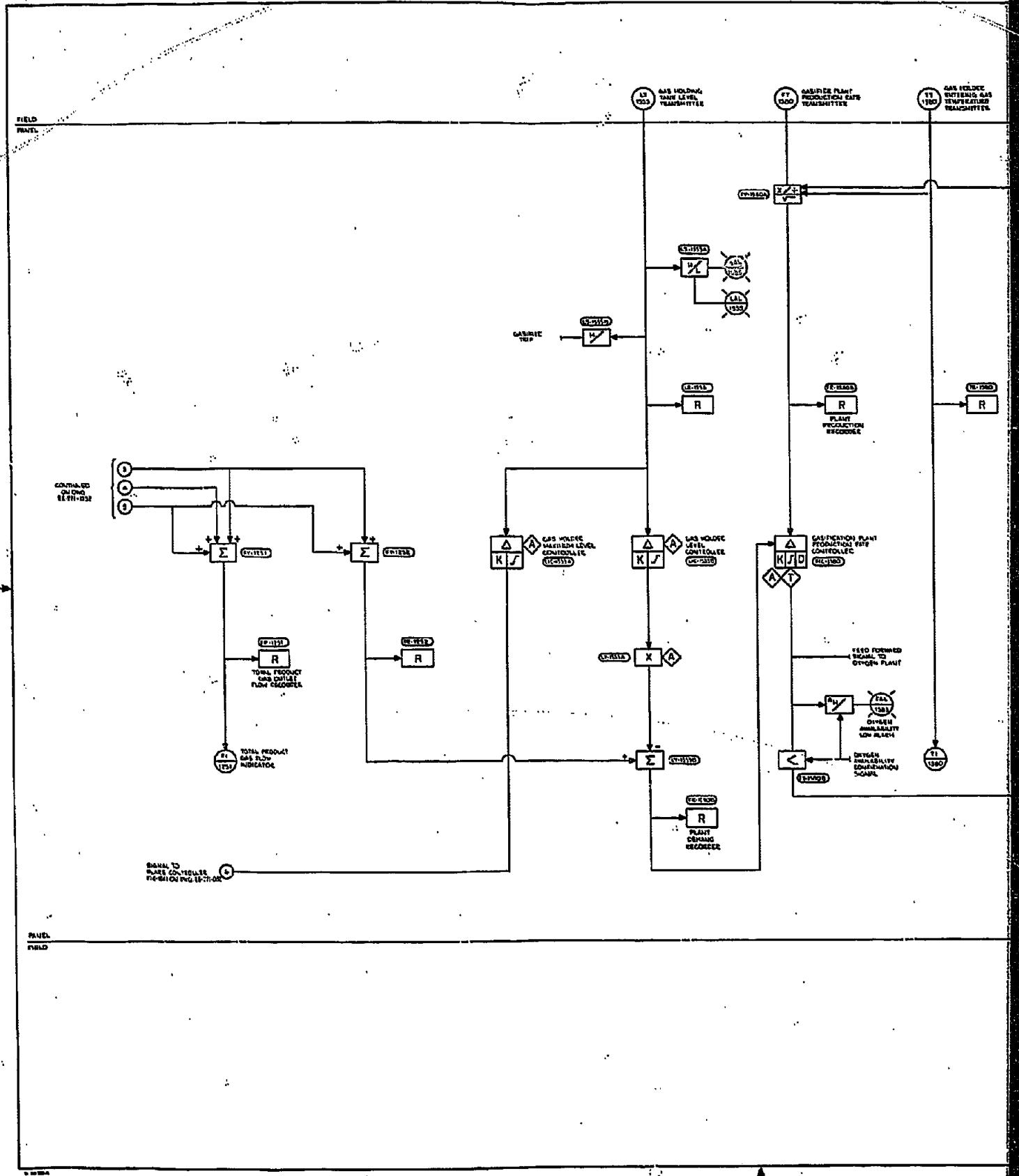
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Electrical Drawings	
Construction	
DATE	RELEASER FOR
04/06/82	ENR
PHILADELPHIA GAS & ELECTRIC CLASSIFICATION PLANT PHILADELPHIA, PA	
ELECTRICAL	
AUTOMATION LOGIC DRAWINGS	
Sheet No. 10	
GILBERT ASSOCIATES, INC. Engineering and Consulting Services, Inc. Philadelphia, Pennsylvania 19103	
08 8276 E.E.271-030.O	

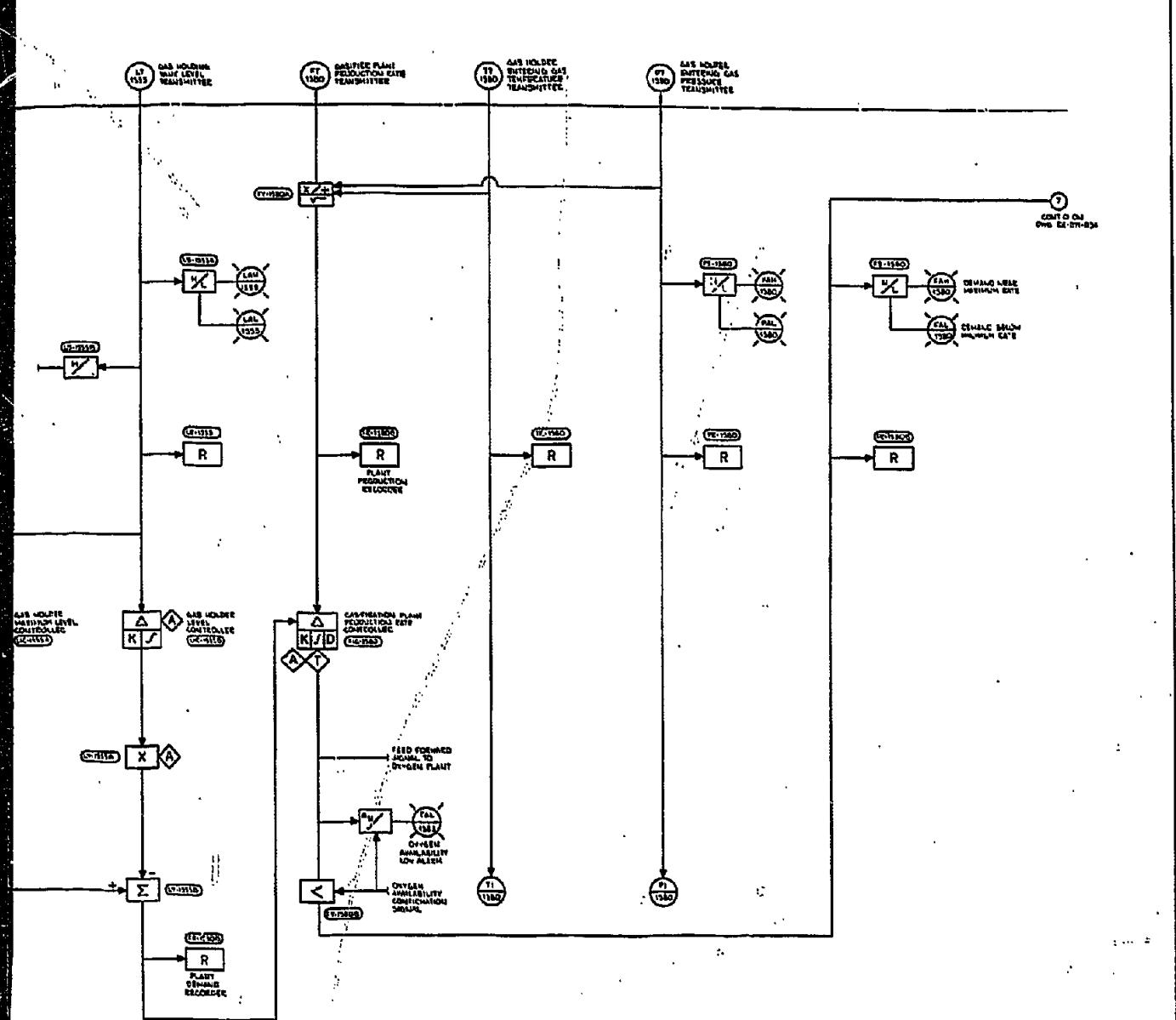




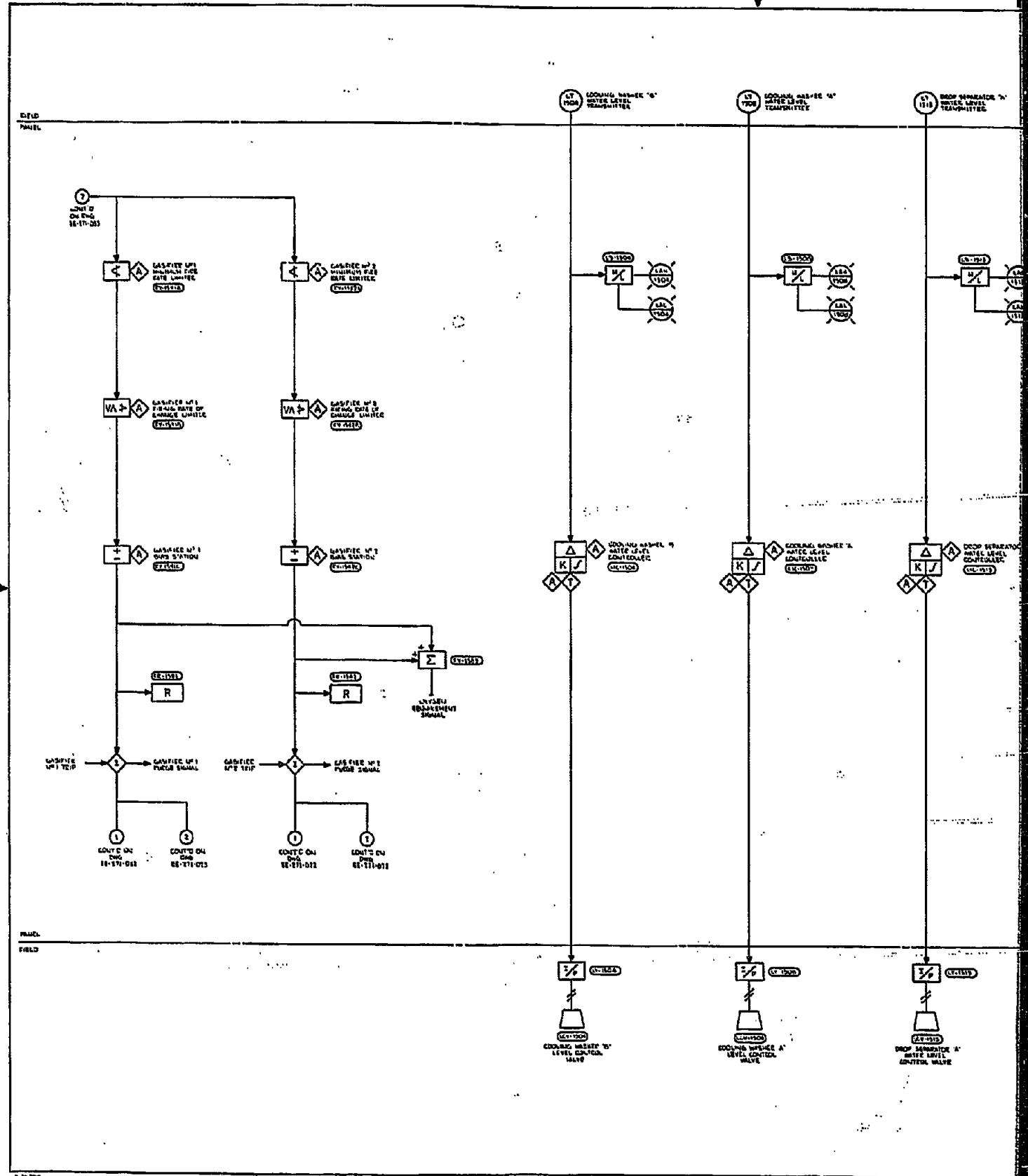


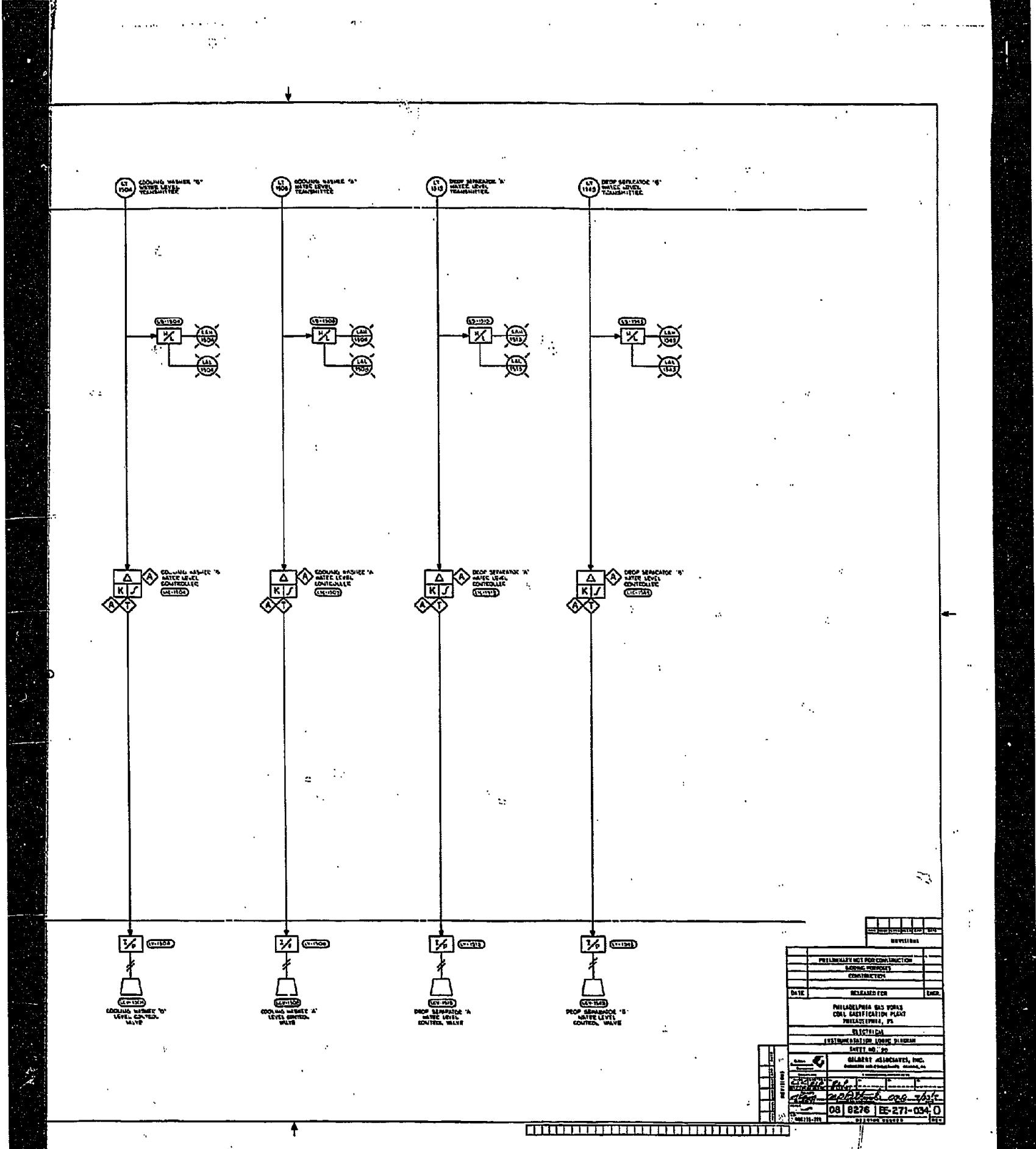


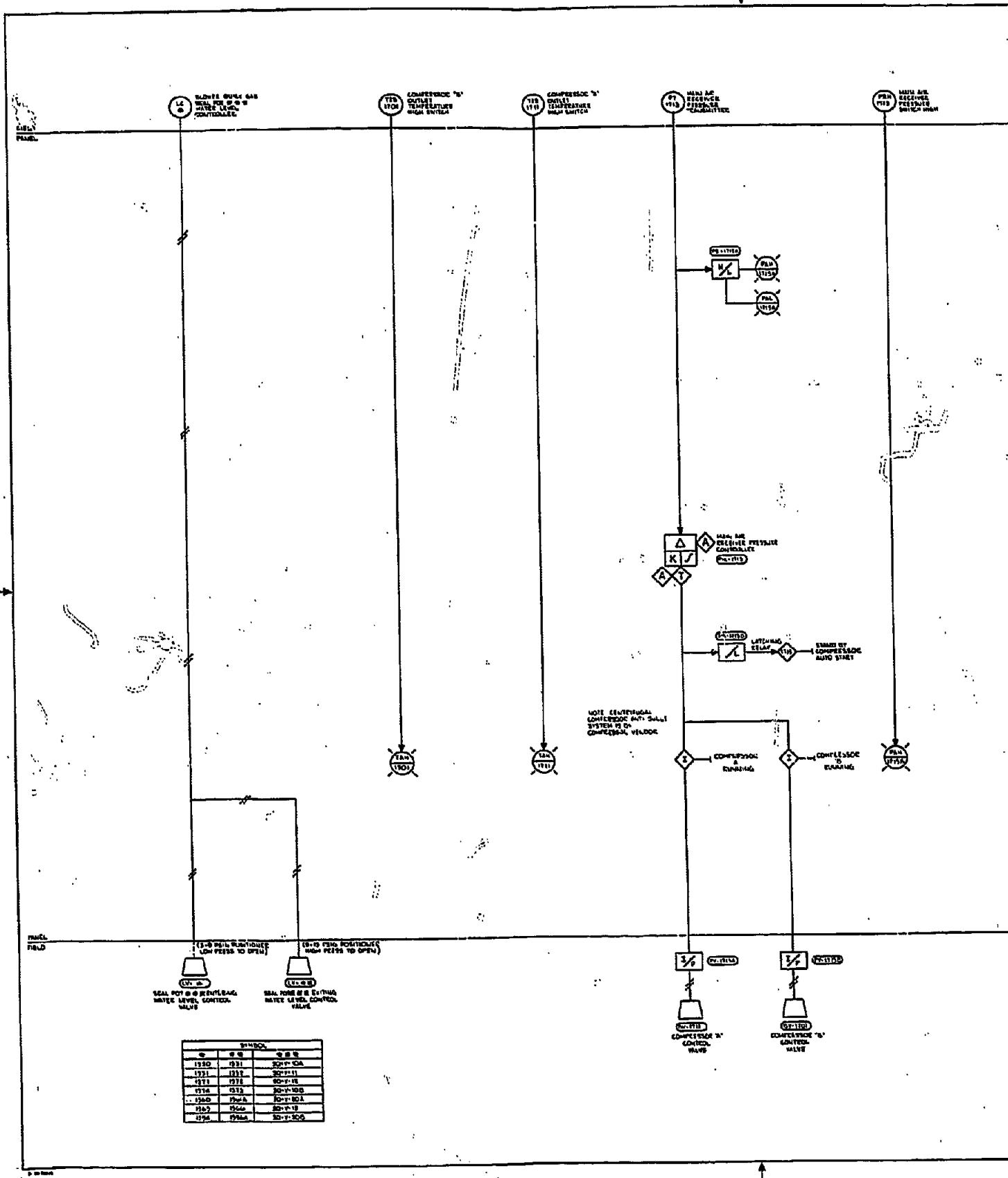


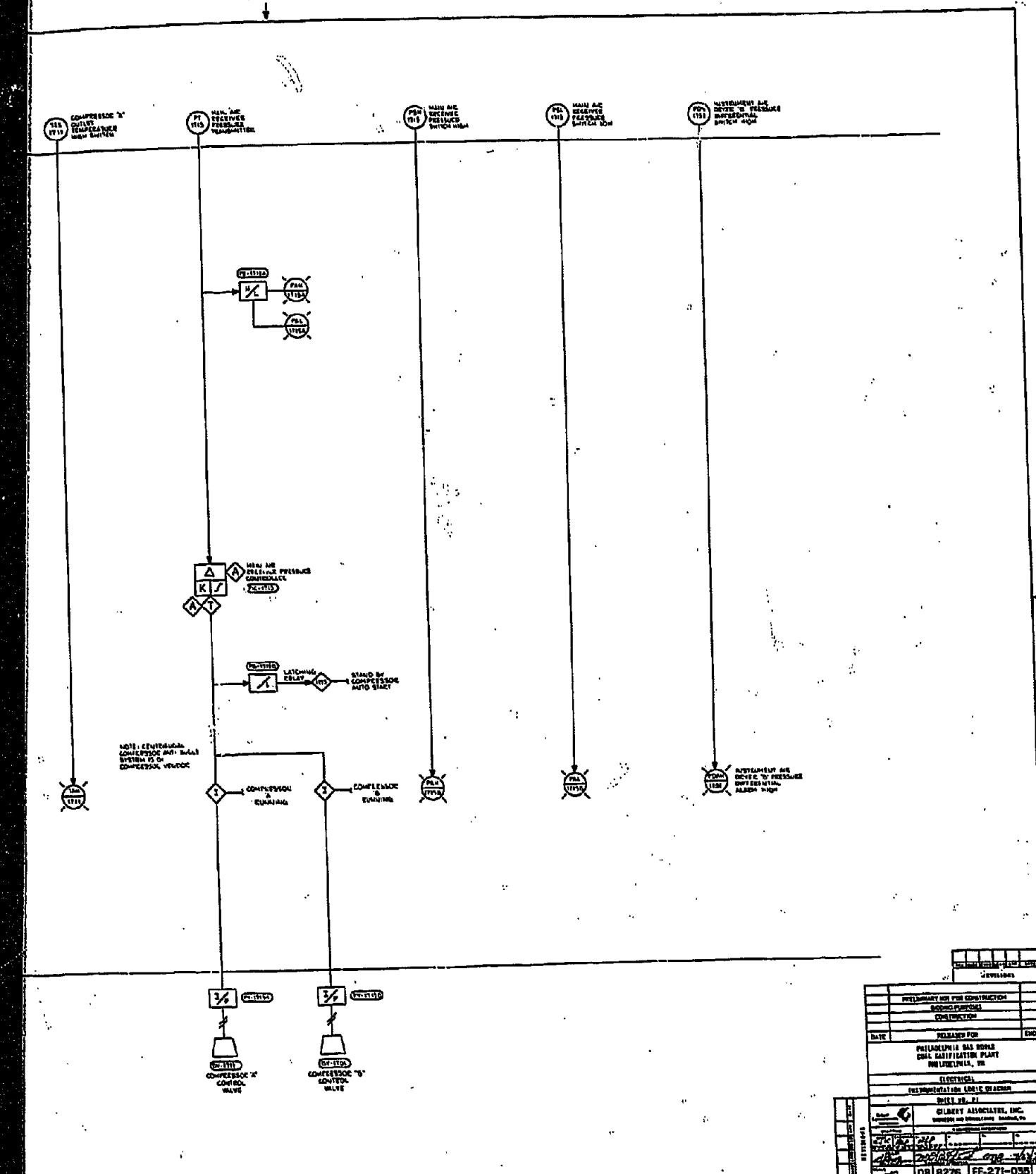


REVISIONS	
PRELIMINARY FOR CONSTRUCTION	
SECOND PORTION	
CONSTRUCTION	
DATE	RELEASED FOR
PHILADELPHIA GAS WORKS COAL GASIFICATION PLANT PHILADELPHIA, PA	
ELECTRICAL	
INSTRUMENTATION LOGIC DIAGRAM	
SHEET NO. 10	BLAKEY ASSOCIATES, INC. INSTRUMENTATION DIVISION, PHILADELPHIA, PA
08 0276 EE-271-033	08 0276 EE-271-033 O

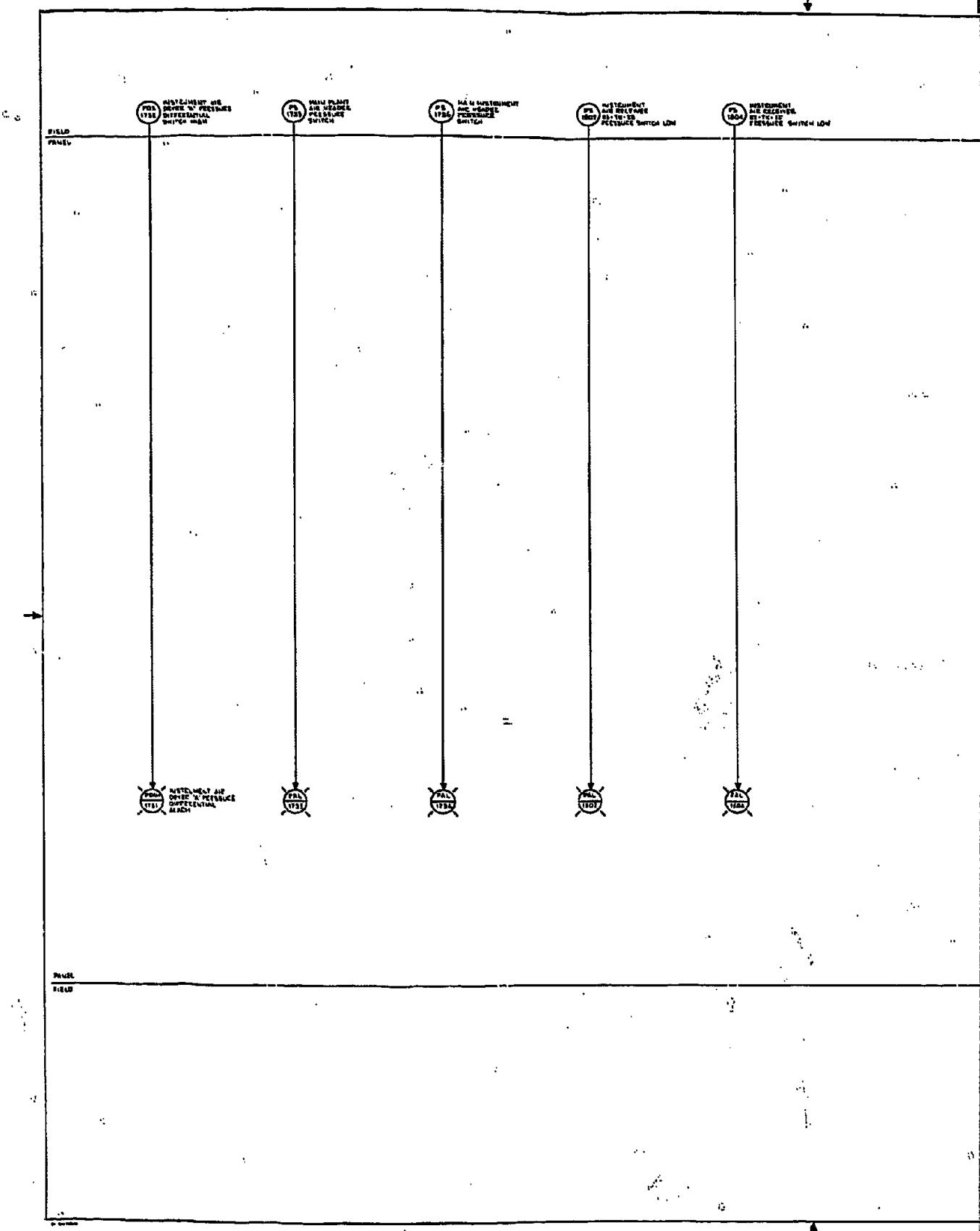








		Preliminary Non FDR Construction Rocky Flats Plant Construction	
DATE:	RELEASED FOR		ENCL.
PAUL JACKSON, JR. BAS ROCKS CIA, CLASSIFICATION PLANT POB 14500/MS 14, VA			
ELECTRICAL			
FEB 1978 (REV. 10-12-74)			
SHELL 10, E1			
 GILBERT ASSOCIATES, INC. DIVISION OF SPENCER TRACY, INC. 10000 MARKET ST., SUITE 1000 BETHESDA, MD 20814			
APPROVED BY: <u>John C. Gilbert</u> DATE: <u>2/10/78</u> APPROVAL NUMBER: <u>EE-271-035</u> APPROVAL DATE: <u>2/10/78</u> APPROVAL BY: <u>John C. Gilbert</u> APPROVAL NUMBER: <u>EE-271-035</u> APPROVAL DATE: <u>2/10/78</u>			
APPROVAL NUMBER: <u>EE-271-035</u> APPROVAL DATE: <u>2/10/78</u>			

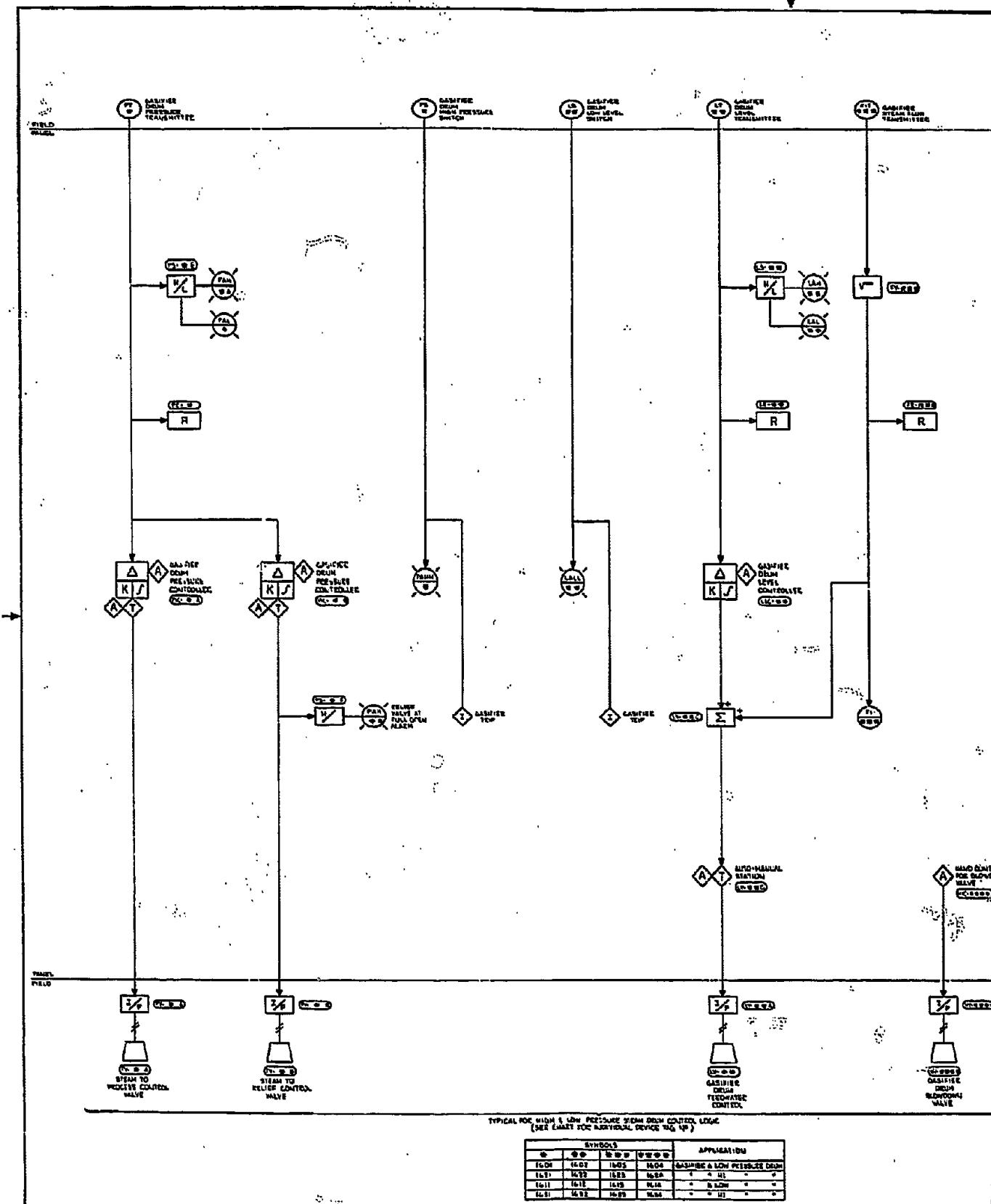


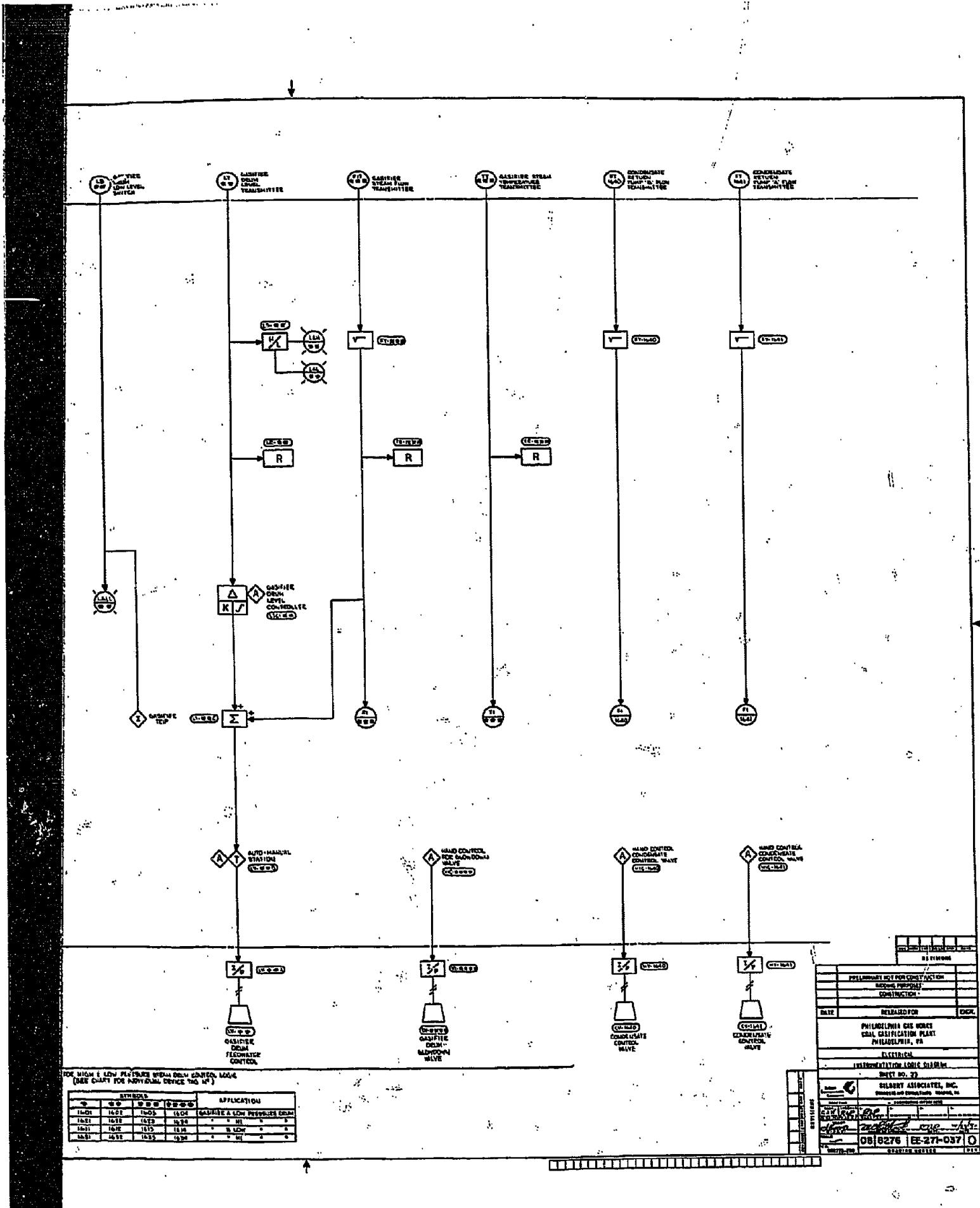
PILOT
INTERLOCK
RECEIVER
PRESSURE SWITCH LOW

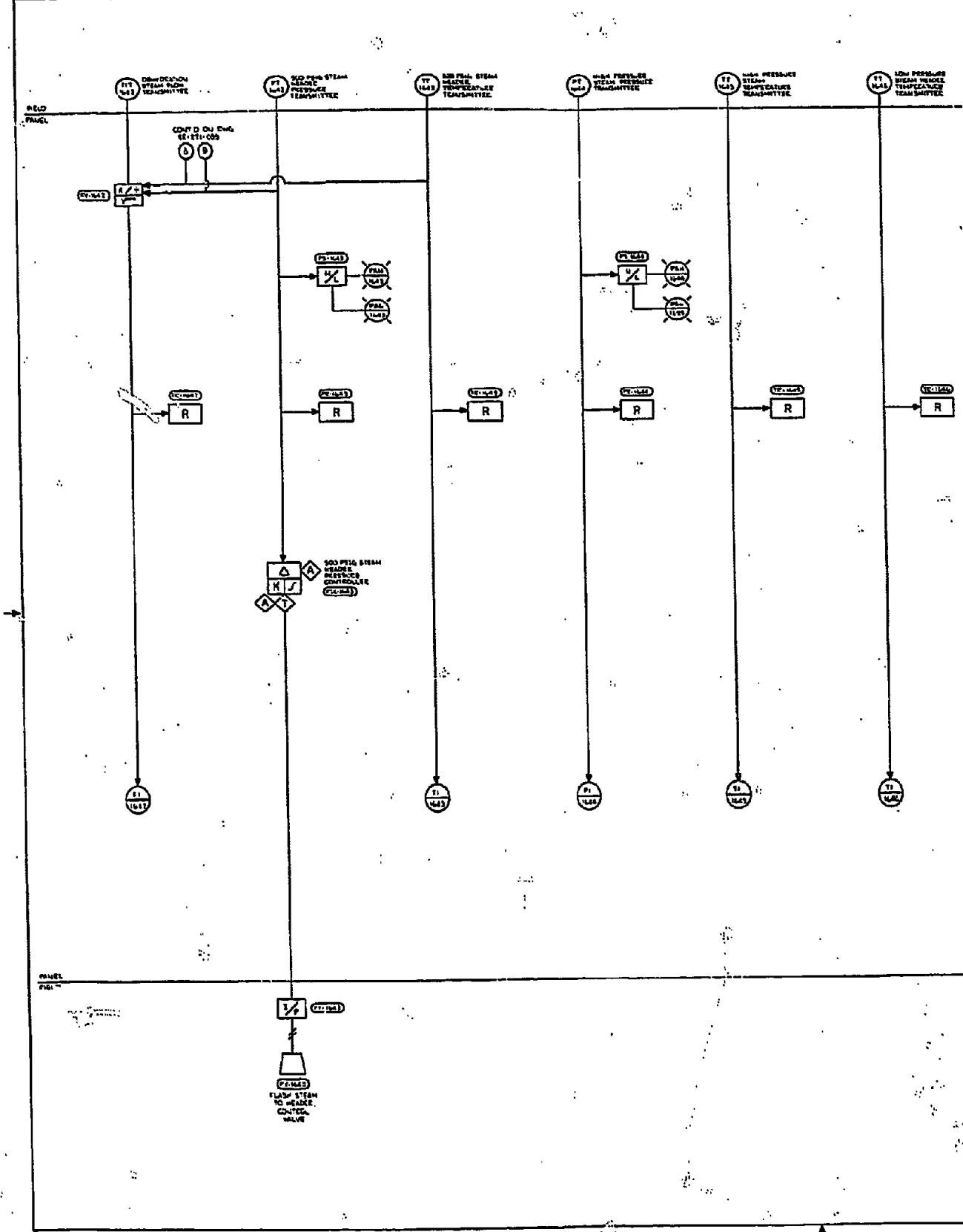
PILOT
INTERLOCK
RECEIVER
PRESSURE SWITCH LOW

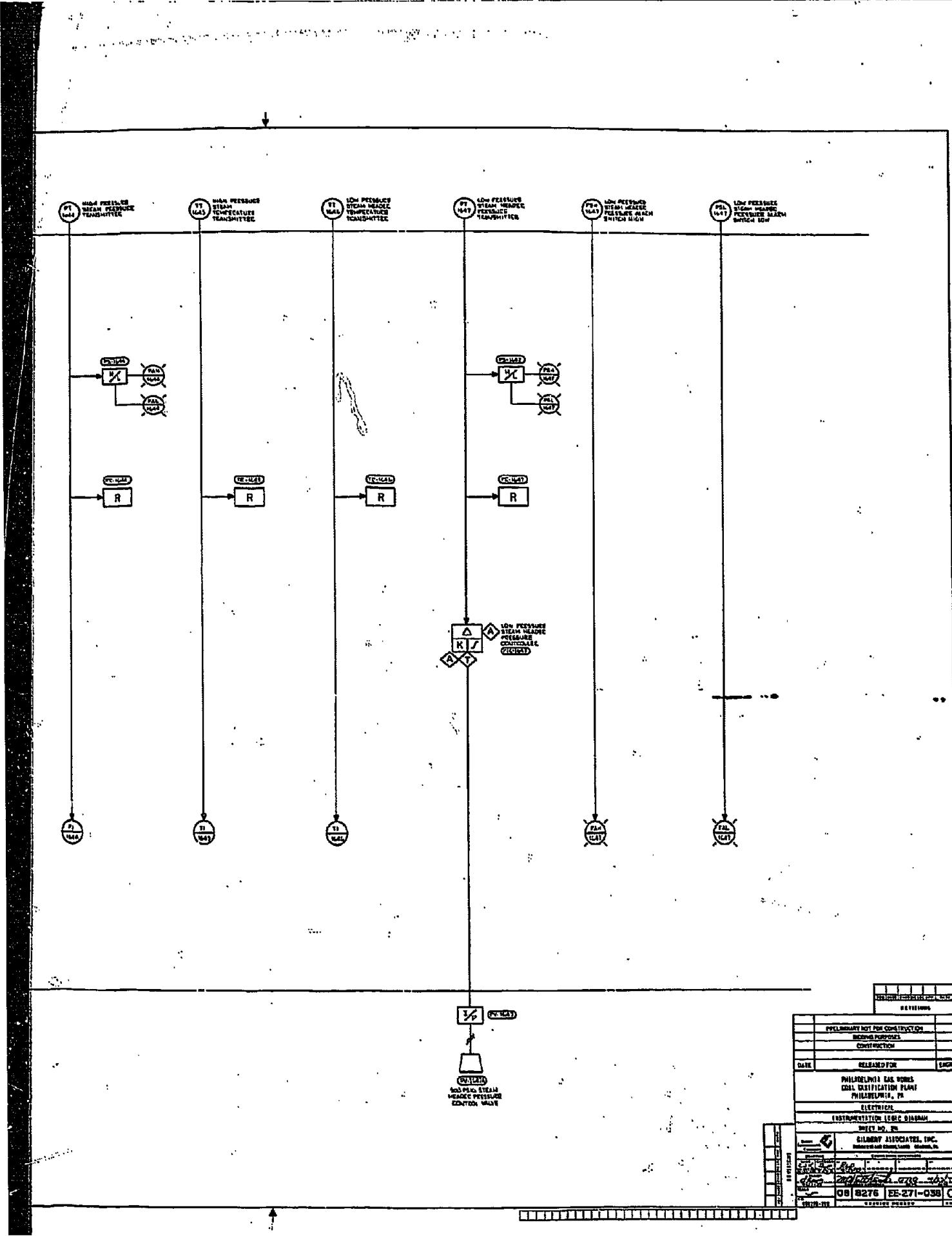


DATE	RELEASER FOR	EXPIRES
PHILADELPHIA GAS WORKS COAL UTILIZATION PLANT PHILADELPHIA, PA		
ELECTRICAL TRANSFORMER LOGIC DIAGRAM		
SERIAL NO. 79		
SILBERT ASSOCIATES, INC. ENGINEERS AND CONSULTANTS, INC.		
1000 MARKET STREET, PHILADELPHIA, PA 19103		
TELEPHONE 215-923-1200		
FAX 215-923-1202		
08 8276 EB-271-036 0		

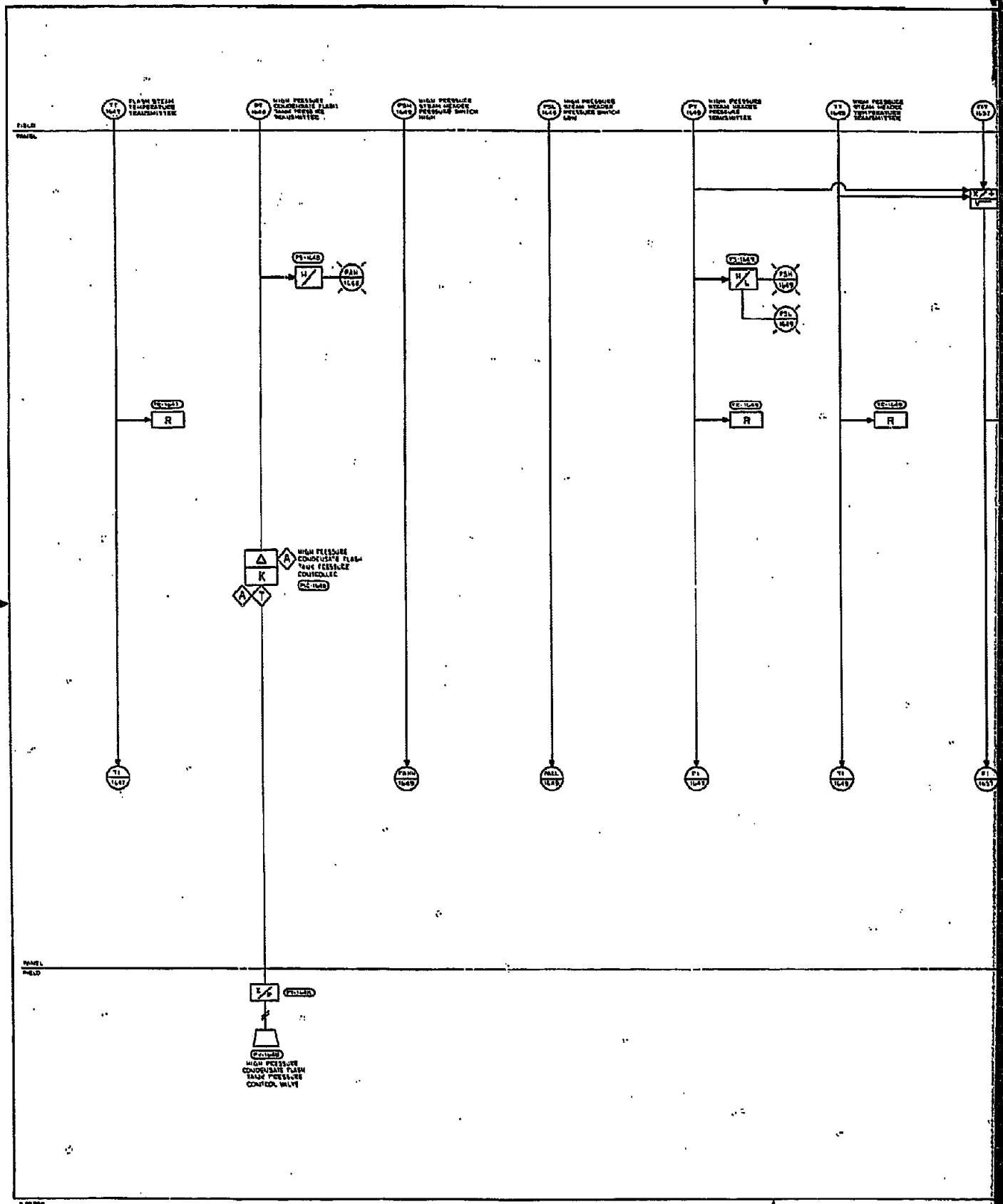


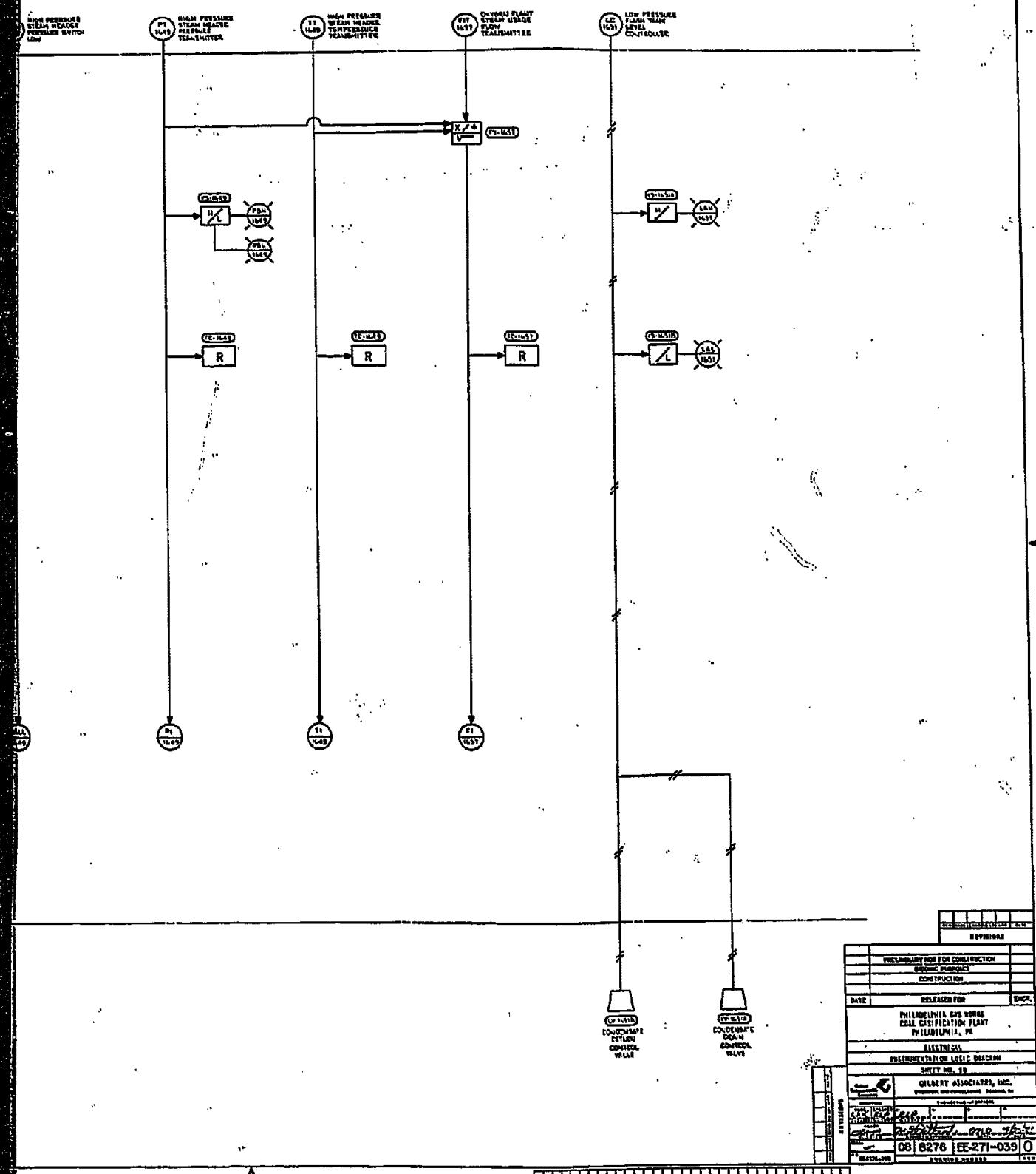


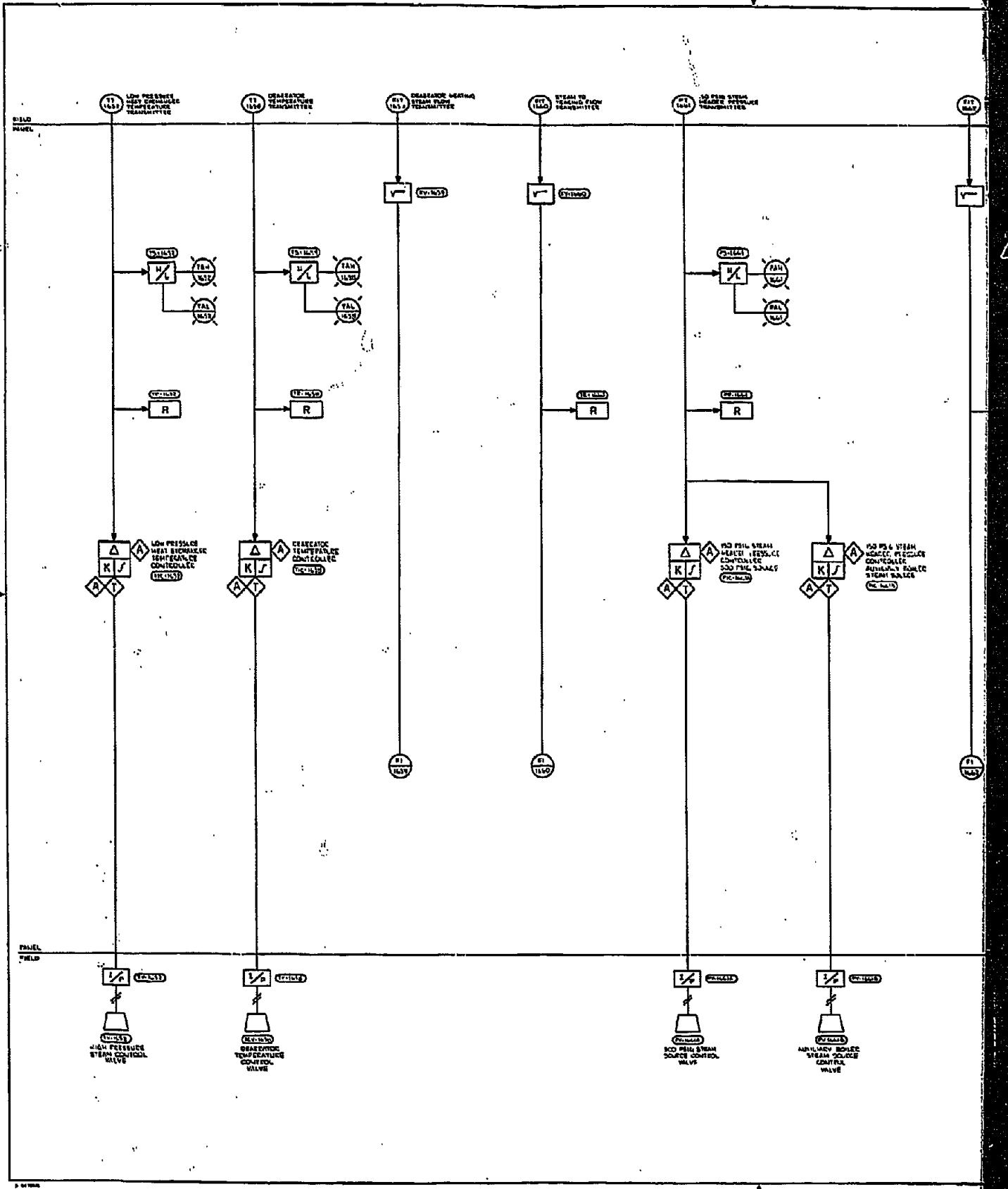


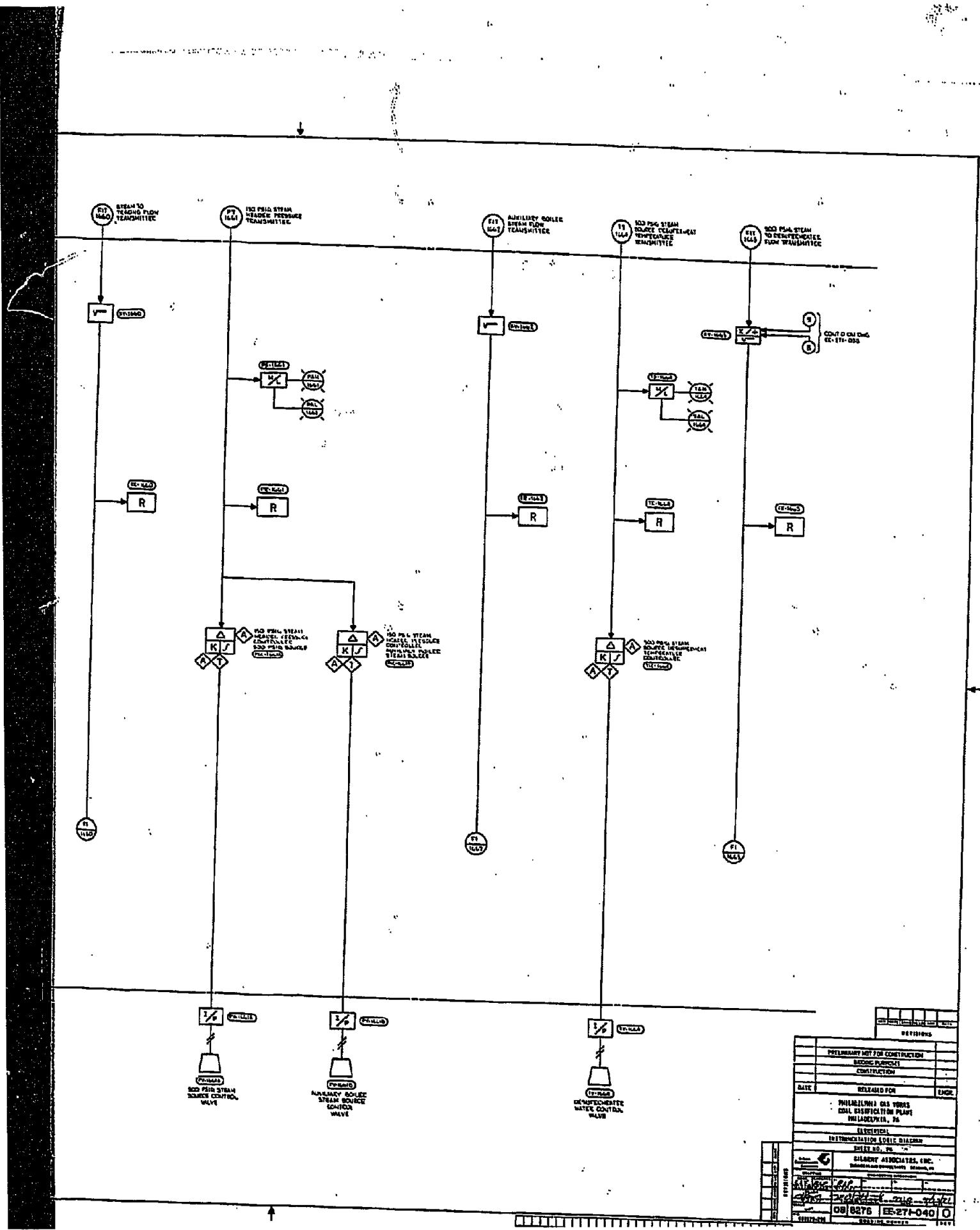


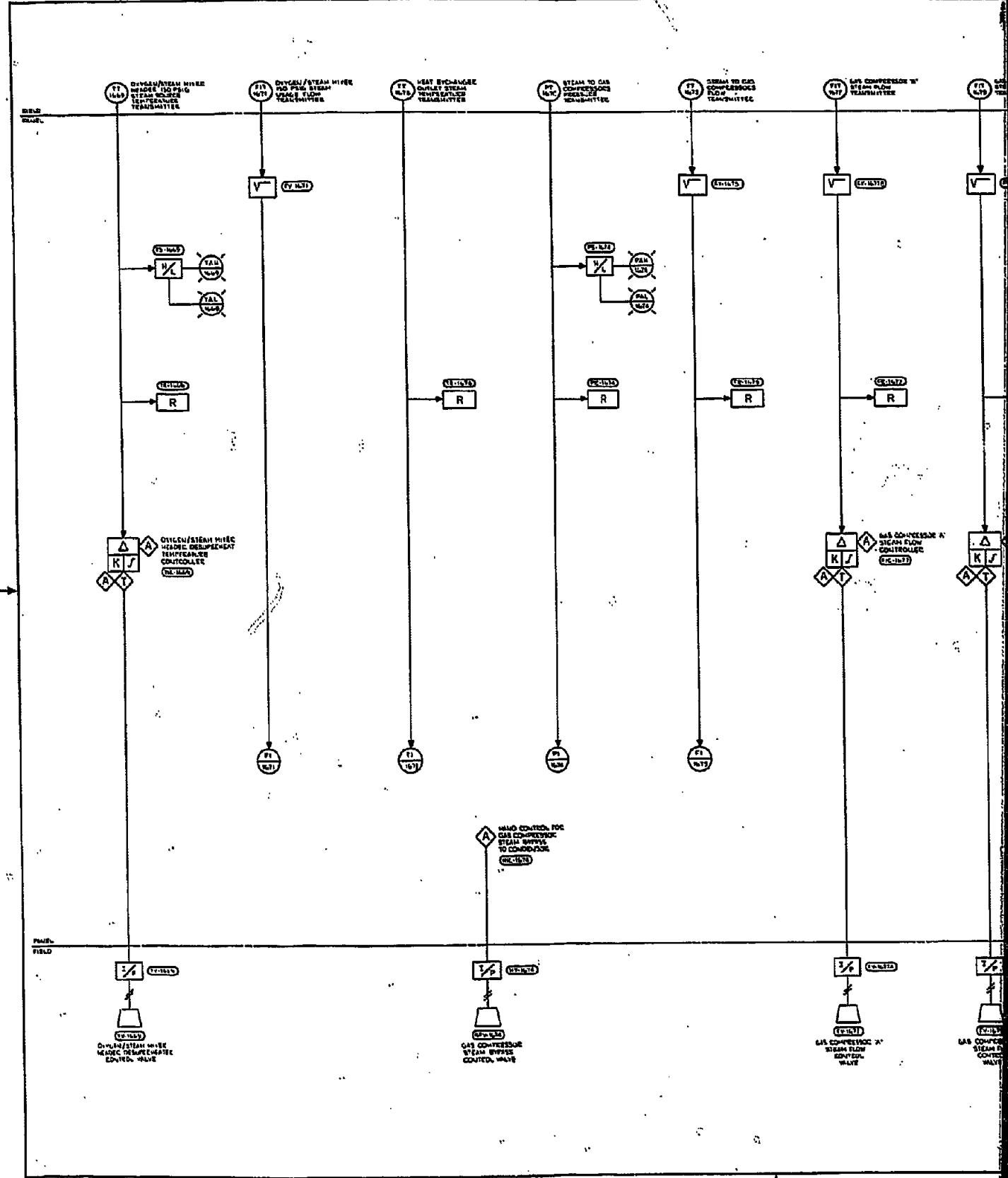
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PHILADELPHIA GAS WORKS COAL DISTILLATION PLANT PHILADELPHIA, PA		
ELECTRICAL		
INSTRUMENTATION LOGIC DIAGRAM		
DRAFT NO. 02		
CLEMENT ASSOCIATES, INC. INDUSTRIAL ENGINEERING GROUP		
REVISION NUMBER 08-8276 EE-271-038		
DRAWING NUMBER 08-8276 EE-271-038		

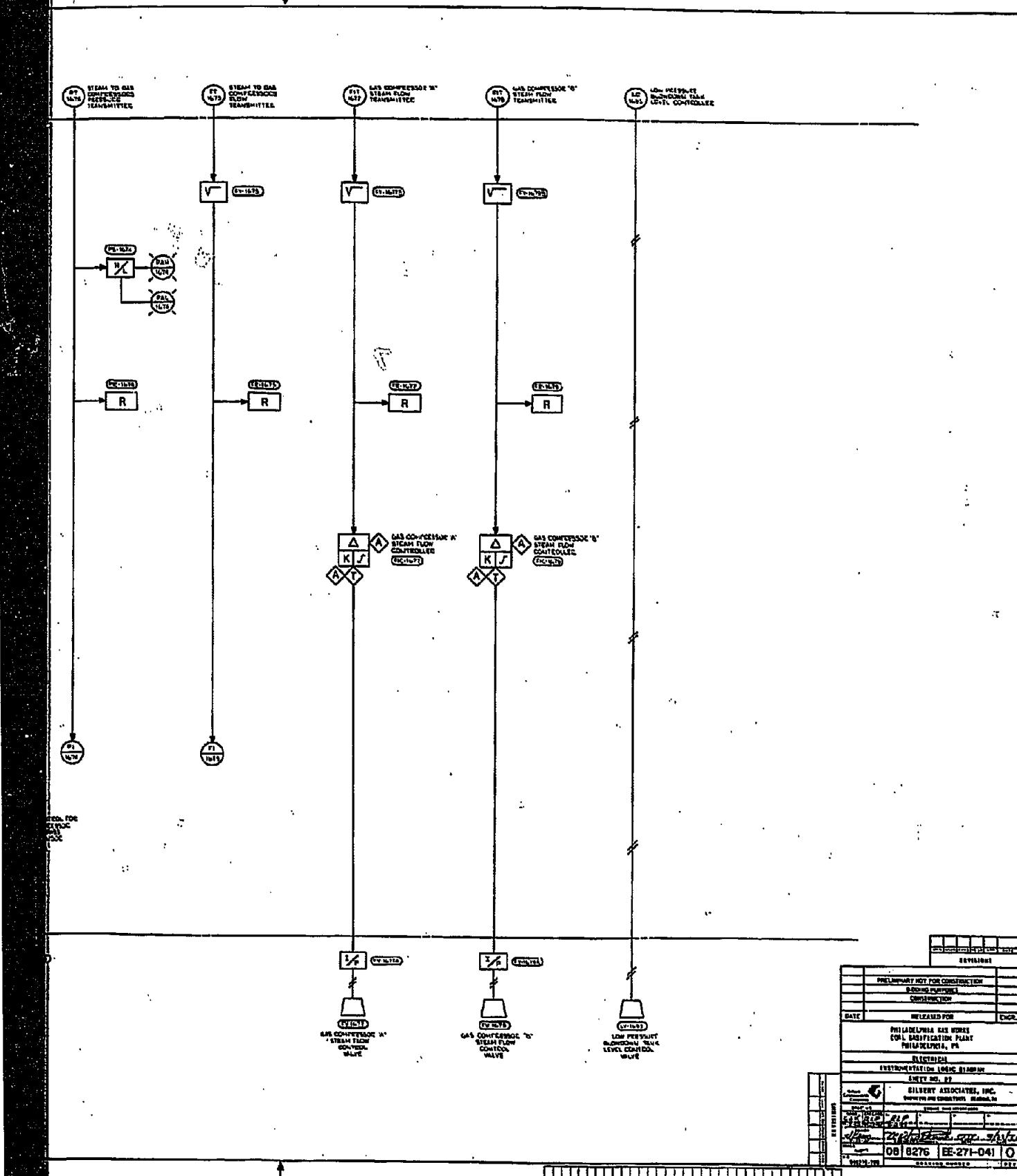












Preliminary Logic Diagram	
EQUIPMENT	
CONSTRUCTION	
COMMISSIONING	
OPERATION	
MAINTENANCE	
REVISIONS	
DATE	
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PHILADELPHIA GAS WORKS CO. LAGUNA BEACH PLANT PHILADELPHIA, PA	
ELECTRICAL	
INSTRUMENTATION LOGIC DIAGRAM	
EQUIP. NO. 97	
SILVERY ASSOCIATES, INC. DESIGNERS AND CONTRACTORS, INC.	
PRINTED IN U.S.A.	
DATE 10/26/87	
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