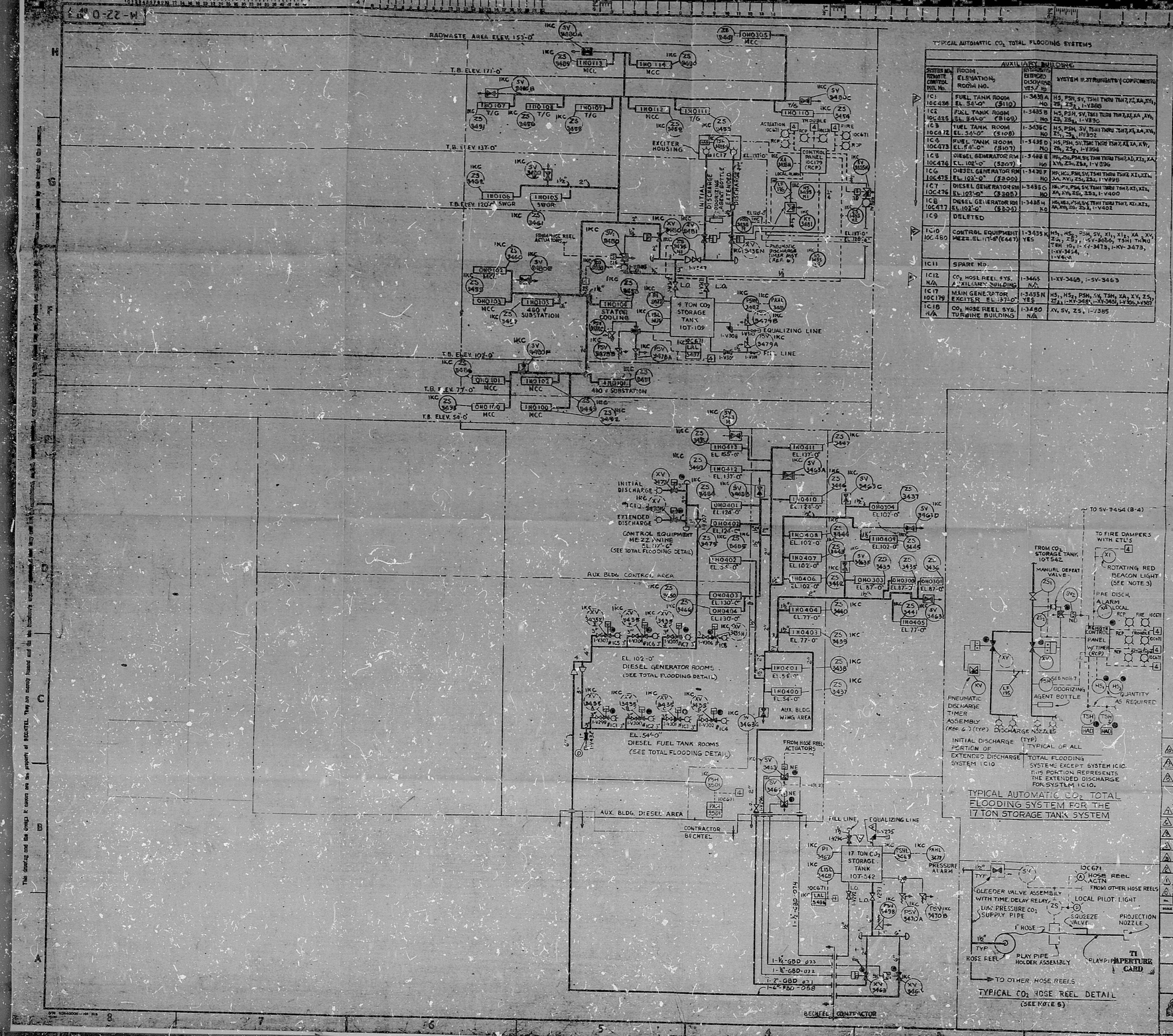

TYPICAL AUTOMATIC CO_2 TOTAL FLOODING SYSTEMS

SYSTEM NO. AUTOMATIC CONTROL PNL No.	AUXILIARY BUILDING ROOM, ELEVATION, ROOM NO.	INTERLOCKING BLOWOUT DISCHARGE YES / NO	SYSTEM II. INSTRUMENTS / COMPONENTS
1C1 1QC456	FUEL TANK ROOM EL. 54'-0" (5110)	1-3435 A NO	HS, PSH, SV, TSH1 THRU TSH7, XS, XA, XV1, ZS, ZS1, 1-V388
1C2 1QC455	FUEL TANK ROOM EL. 54'-0" (5109)	1-3435 B NO	HS, PSH, SV, TSH1 THRU TSH7, XS, XA, XV1, ZS, ZS1, 1-V390
1C3 1QC472	FUEL TANK ROOM EL. 54'-0" (5108)	1-3436 C NO	HS, PSH, SV, TSH1 THRU TSH7, XS, XA, XV1, ZS1, ZS2, 1-V392
1C4 1QC473	FUEL TANK ROOM EL. 54'-0" (5107)	1-3436 D NO	HS, PSH, SV, TSH1 THRU TSH7, XS, XA, XV1, ZS1, ZS2, 1-V394
1C5 1QC474	DIESEL GENERATOR RM EL. 102'-0" (5207)	1-3488 E NO	HS, HS2, PSH, SV, TSH1 THRU TSH7, XS, XA, XV1, ZS1, ZS2, 1-V396
1C6 1QC475	DIESEL GENERATOR RM EL. 102'-0" (5206)	1-3488 F NO	HS, HS2, PSH, SV, TSH1 THRU TSH7, XS, XA, XV1, ZS1, ZS2, 1-V398
1C7 1QC476	DIESEL GENERATOR RM EL. 102'-0" (5205)	1-3488 G NO	HS, HS2, PSH, SV, TSH1 THRU TSH7, XS, XA, XV1, ZS1, ZS2, 1-V400
1C8 1QC477	DIESEL GENERATOR RM EL. 102'-0" (5204)	1-3488 H NO	HS, HS2, PSH, SV, TSH1 THRU TSH7, XS, XA, XV1, ZS1, ZS2, 1-V402
1C9	DELETED		
1C10 1QC480	CONTROL EQUIPMENT MEZZ. EL. 117'-8" (5447)	1-3435 K YES	HS1, HS2, PSH, SV, XS1, XS2, XA, XV1, ZS1, ZS2, SV-3486, TSH1 THRU TSH10, 1-XV-3473, 1-KV-3473, 1-XV-3424, 1-V404
1C11	SPARE NO.		
1C12 N/A	CO_2 HOSE REEL SYS. AUXILIARY BUILDING	1-3463 N/A	1-XV-3463, 1-SV-3463
1C13 1QC179	MAIN GENERATOR EXCITER EL. 137'-0"	1-3435 N YES	HS1, HS2, PSH, SV, TSH1, XA, XV1, ZS1, ZS2, 1-KV-3484, 1-XV-3460, 1-V406, 1-V367
1C18 N/A	CO_2 HOSE REEL SYS. TURBINE BUILDING	1-3490 N/A	XV, SV, ZS, 1-V385

NOTES:

1. THE SELECTOR VALVE, SOLENOID VALVE AND POSITION SWITCHES FOR A GIVEN TOTAL FLOODING SYSTEM SHALL ALL HAVE THE SAME BASE INSTRUMENT NUMBER.
2. ⊕ SEISMICALLY QUALIFIED COMPONENTS FOR ALL SYSTEMS EXCEPT SYSTEM 1C13 & 1C18.
3. A RED ROTATING BEACON LIGHT ABOVE THE DOORS SHALL BE PROVIDED TO WARN PERSONNEL WHEN CO_2 TOTAL FLOODING SYSTEM HAS BEEN ACTUATED IN THAT ROOM. (DOES NOT APPLY TO SYSTEM 1C13.)
4. ALL PIPING AND FITTINGS ON THIS DRAWING ARE TO BE SUPPLIED AND INSTALLED BY THE M-650 A (F) CONTRACT. ALL VALVES, INSTRUMENTATION AND EQUIPMENT ON THIS DRAWING IS SUPPLIED BY CHEMETRON M-652(F) UNLESS OTHERWISE NOTED.
5. FOR A COMPLETE DETAIL OF BLEEDER VALVE ASSEMBLY, SEE VENDER PRINT M-652-10(11).
6. THIS DRAWING SHOWS ONLY MAJOR SYSTEM DESIGN FEATURES. FOR A COMPLETE LIST OF EQUIPMENT AND INSTRUMENTATION ON CO_2 SYSTEMS AND STORAGE TANK REFRIGERATION SYSTEMS, SEE CHEMETRON DRAWINGS UNDER P.O. M652(F).
7. PRESSURE SWITCH 1-KC-PSH-3436K FOR SYSTEM 1C10-10-85. INSTALLED ON THE INITIAL DISCHARGE PIPING AS SHOWN ON CHEMETRON DRAWING 10855-M-652-19 (1L) DETAIL "B".

SYSTEM KC

REV	REFERENCE DRAWINGS	SECTION	DRAWING
1	AUX. BLDG. H & V CONTROL DIAGRAM	M-22	1
2	AUX. BLDG. H & V CONTROL DIAGRAM	M-22	0
3	[illegible]	—	
4	LOGIC DIAGRAMS	M-22-0 (M75-10-85)	
5	[illegible]	—	
6	PNEUMATIC DOORS TIMER ASSEMBLY	—	
6	VPF 10895-M652-40	—	

REVISIONS	
INCORPORATED DCN # 9 & 10 AND FCR M-1004, 4.	
REVISED TO INCORPORATE DCN # 1, 2, 4 (M-1009), 5 & 9 (M-1024-1911) & ADDED REF. 6	
REVISED PER REVISION LIST AND INCORPORATED DCN 1, 02, 03, 04, 05, FCR'S M-939, M-961, M-975, M-1009 AND FCN'S M-936, M-1078.	
REVISED PER REVISION LIST AND INCORPORATED DCN 1.	
REVISED TO DELETE SYS. 1C16 PER SUSQUEHANNA PSE&G REVISION LIST	
REVISED PER REVISION LIST, ISSUED FOR UNIT 2 DELETION	
REVISED PER REVISION LIST DESIGN PROGRESS ISSUE	
ISSUED FOR UNIT 2 CONSTRUCTION	
REVISED PER REVISION LIST, CTC ISSUE. ISSUED FOR CONSTRUCTION INCORP. DCN NO. 1	

SCALE NONE — DESIGNED F. STUMPP — DRAWN L. K. DAVEY

BECHTEL
SAN FRANCISCO

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
HOPE CREEK GENERATING STATION

P&ID
FIRE PROTECTION
CARBON DIOXIDE SYSTEMS

M-22-0 SHEET 10 F

APERTURE CARD

PDR RIDS

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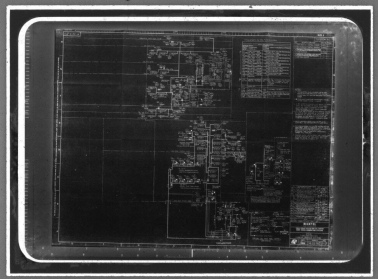

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