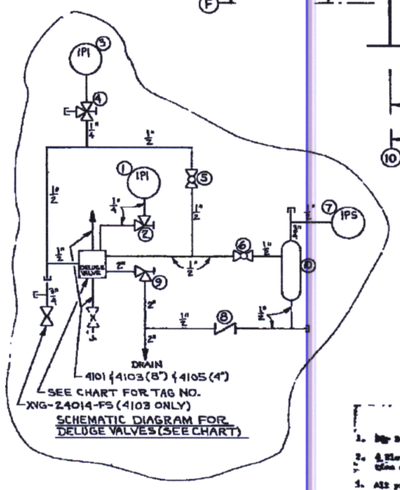
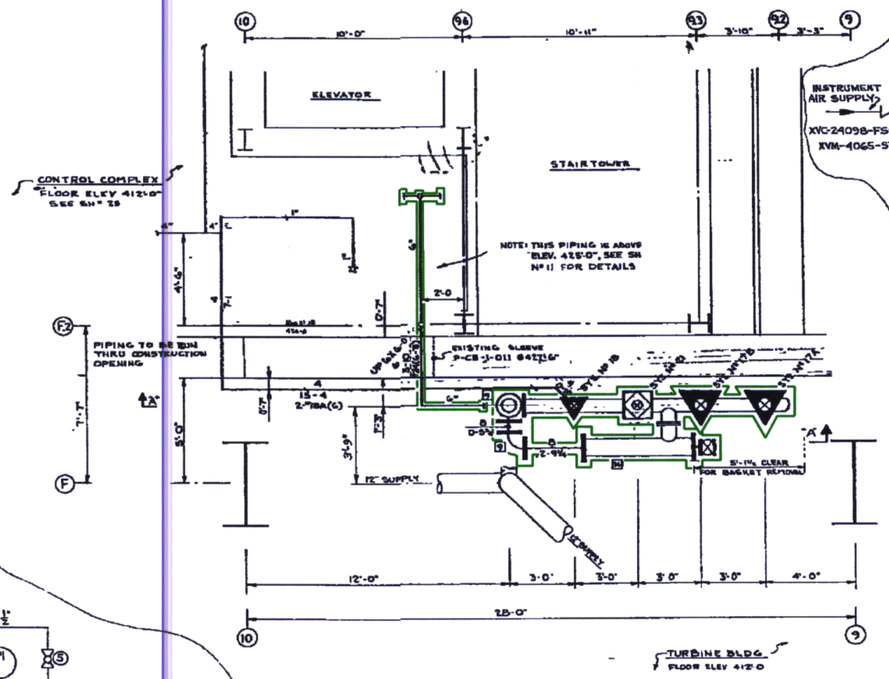
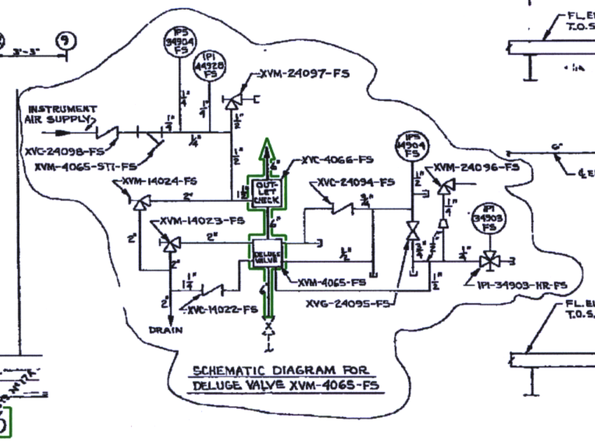


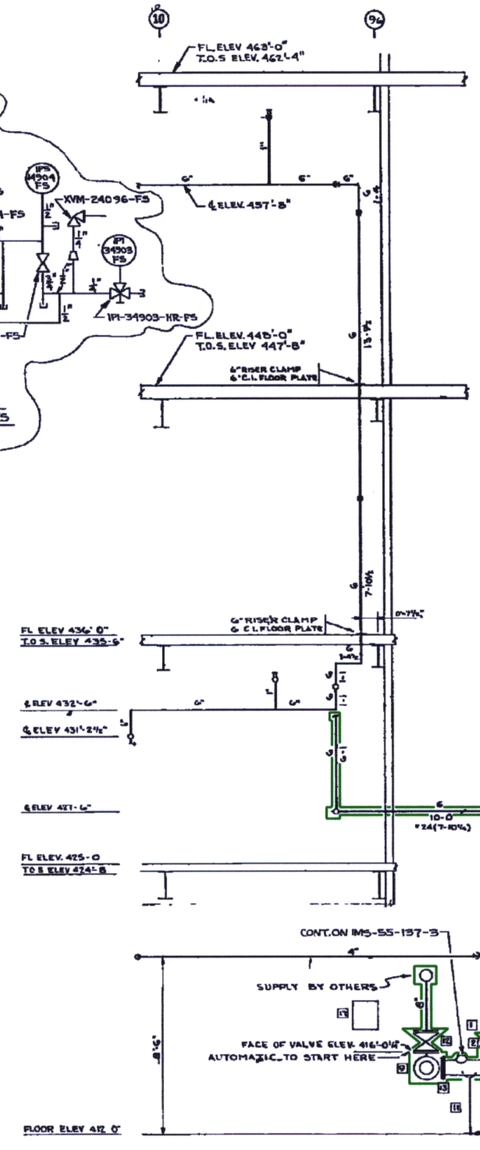
SCHEMATIC DIAGRAM FOR DELUGE VALVES (SEE CHART)



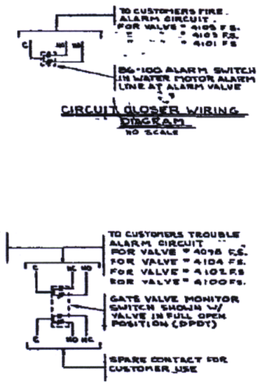
PLAN AT VALVE
3/8" = 1'-0
FLOOR ELEV 412'-0"



SCHEMATIC DIAGRAM FOR DELUGE VALVE XVM-4065-FS



SECTION A-A
3/8" = 1'-0"



CIRCUIT CLOSER WIRING DIAGRAM
NO SCALE

MONITOR SWITCH WIRING DIAGRAM
NO SCALE

D-33

IMS-55-085-10-X3

GENERAL NOTES

1. Remove dirt to centerline of pipe
2. ℄ Elevation = Denotes centerline elevation of pipe
3. All pipe on system side of valve to be galvanized
4. All flanges on system side of valve to be M.I. galvanized
5. All hangers to be galvanized
6. All hangers to be number 20 unless noted
7. Denotes hydraulic calculation
8. Denotes hydraulic calculation junction point
9. FOR HEAT DETECTOR LOCATION SEE SHEET No 16

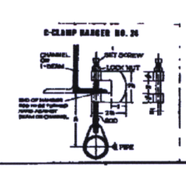
LEGEND

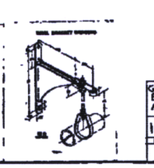
1. 4105 F.S. system number 18 6" alarm valve model F253 vertical, variable, with raised chamber and 21 sprinklers
2. 4104 F.S. system number 18 control valve 6" OS & Y valve with monitor switch
3. 4064 F.S. system number 21 6" capacity check with electric release 125 volt D.C. with remote air supply, with double weight switch, without red light B/M F7000B-6-1, without explosion proof devices, without break glass box for manual pull - 373 nozzles and 358 sprinklers
4. 4064 F.S. system number 21 control valve 6" OS & Y valve with monitor switch
5. 4103 F.S. system number 17-B 8" alarm valve model F253. vertical, variable, with raised chamber and 173 sprinklers
6. 4102 F.S. system number 17-B control valve - 8" OS & Y valve with monitor switch
7. 4101 F.S. system number 17-A - 8" alarm valve model F 253 - vertical, variable, with raised chamber and 211 sprinklers
8. 4100 F.S. system number 17-A control valve 8" OS & Y valve with monitor switch
9. 8" flanged 90° ell (black cast iron) B-26020
10. 8" flanged header (see drawing #1 F-68364)
11. Number 20 pipe stand (2-1-4½") 3 required
12. 4098 F.S. header control valve - 8" OS & Y valve by others - monitor switch by ASCOA
13. 8"X3/4" BLIND FLANGE
14. 8" STRAINER W/8" OUTLET & 4" FLUSHING VALVE
15. 4" DS PIPE STAND (1-2-3½") 2 REQ'D FOR STRAINER
16. 6" AIR CHECK VALVE
17. SYSTEM #21 PRE-ACTION SPRINKLER SYSTEM CONTROL PANEL SEE ASCOA DWG. PE436-1

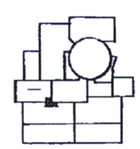
DELUGE VALVE TAG NUMBER	① TAG NUMBER	② TAG NUMBER	③ TAG NUMBER	④ TAG NUMBER	⑤ TAG NUMBER	⑥ TAG NUMBER	⑦ TAG NUMBER
XVM-4101-FS	IPI-44907A-FS	IPI-44907A-HR-FS	IPI-44907B-FS	IPI-44907B-HR-FS	XVA-24026-FS	XVA-24025-FS	IPS-14911-FS
XVM-4103-FS	IPI-44903A-FS	IPI-44903A-HR-FS	IPI-44903B-FS	IPI-44903B-HR-FS	XVM-24013-FS	XVA-24012-FS	IPS-24900-FS
XVM-4105-FS	IPI-44902A-FS	IPI-44902A-HR-FS	IPI-44902B-FS	IPI-44902B-HR-FS	XVM-24010-FS	XVM-24009-FS	IPS-24901-FS

DELUGE VALVE TAG NUMBER	⑧ TAG NUMBER	⑨ TAG NUMBER	⑩ TAG NUMBER
XVM-4101-FS	XVC-24024-FS	XVM-14036-FS	XVM-4101-TKI-FS
XVM-4103-FS	XVC-24011-FS	XVM-14033-FS	XVM-4103-TKI-FS
XVM-4105-FS	XVC-24008-FS	XVM-14307-FS	XVM-4105-TKI-FS

PIPE SCHEDULE







KEY PLAN
NO SCALE

GAI REVISION ECN N/A AS BUILT	N.S.	INTERFACE			
1G	AAL	P.S.	P.S.		
NO DRAWING CHANGE REQUIRED VALIDATE					

REVISIONS

HOLD
USE WITH REFERENCE TO
MRF NO 34011
DATE 12-04-96
INITIALS GV

GILBERT ASSOCIATES, INC. W.O. No. 16 87.4661

NORTH CAROLINA ELECTRIC & GAS CO.
High C. Summer Nuclear Station Unit No. 1
☒ APPROVED
☐ APPROVED AS NOTED
☐ REVISE AND RESUBMIT FOR APPROVAL
GILBERT ASSOCIATES, INC.
FTE-4 11-4-81

VALVES, SECTIONS, & DETAILS FOR CONTROL COMPLEX
CABLE SPREADING ROOMS & CONTROL BLDG. EL 412

"FINE AND SPRINKLER TOLERANCES ARE WITHIN THE LIMITATIONS AS DEFINED IN NFPA 13.
"HEAD AND PIPE LOCATION MAY VARY FROM DRAWING AS NECESSARY FOR FIELD COORDINATION OF INSTALLATION.

Automatic Sprinkler
CORPORATION OF AMERICA
CLEVELAND, OHIO 44147 U.S.A.

	/ /		/ / APPROVED BY	DATE	SURVEYED BY
	/ /		GILBERT 3550C	4/8/96	DRAWN BY
	/ /	⚠ "AS BUILT"		3/8/96	/ / CHECKED BY
	/ /	⚠ ASCOA WIRING DIAGRAM		4/8/96	/ / AT COLUMBIA S.C. OFFICE
	/ /	⚠ GENERAL REVISION PER KAMBAJ 2-7-96		3/8/96	/ / SCALE: AS NOTED
	/ /	REVISIONS		DATE	/ / SHEET NO. 10 OF 30

PLAN / SECTION / DETAIL NO. 0
TOTAL NO. OF SHEETS 30
CONTRACT NO 47-200
A

VENDOR/DRAWING NO. AUTOMATIC SPRINKLER CO.

DESIGN ENGINEERING
S. C. SUMMER NUCLEAR STATION JENKINSVILLE, S. C.

NO.	DATE	BY	REVISION	QB. BY	LE APPROVAL

SCALE NO SCALE | IMS-55-085 | 10
DRAWING NUMBER | SHT. NUMBER | REV

PLEX Drawing TR00160-004