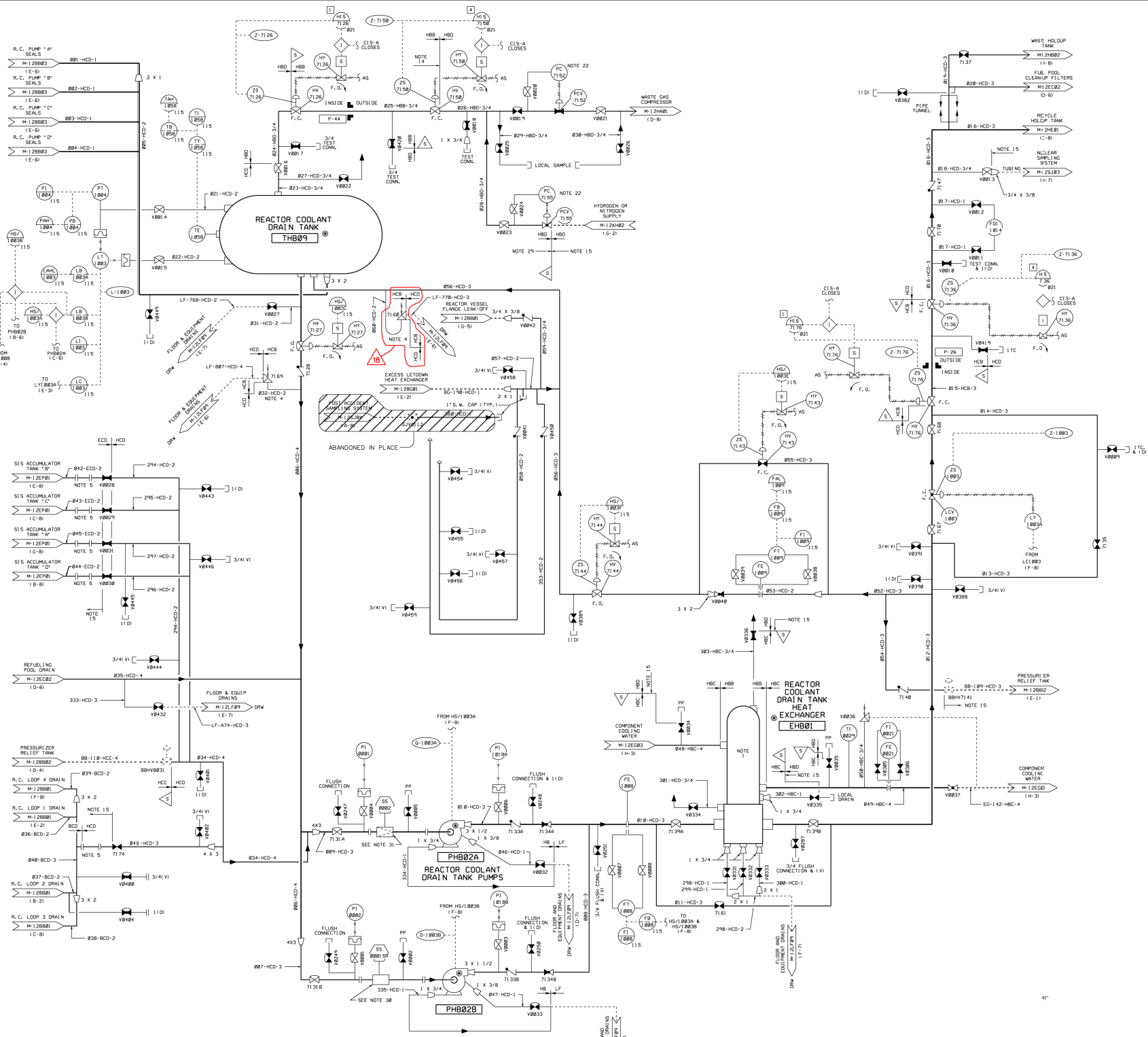




NOTES

- THE FOLLOWING WESTINGHOUSE STANDARD EQUIPMENT IS SUPPLIED TO A HIGH QUALITY GROUP/CLASSIFICATION AND FOR THE CONSTRUCTION RELATED IMPORTANCE AS DICTATED BY SERVICE AND FUNCTIONAL REQUIREMENTS AND THE CONSEQUENCE OF THEIR FAILURE. EQUIPMENT CLASSIFICATION SHOWN IS FOR INTERMEDIATE PURPOSES ONLY. (I.E. WASTE END PREPARED FOR QUALITY CLASSIFICATION ON SPECIFICATION AS INDICATED FOR THE ASSOCIATED PIPING.
- A. WASTE HOLDUP TANK
B. WASTE EVAP. FEED PUMP
C. WASTE EVAP. FEED FILTER
D. REACTOR COOLANT DRAIN TANK HEAT EXCHANGER (SHELL SIDE)
E. FL. DRAIN TANK FILTER
F. WASTE EVAP. CONDENSATE DEMONERALIZER
G. WASTE MONITOR TANK DEMONERALIZER
H. WASTE MONITOR TANK FILTER
I. LAUNDRY AND HOT SHOWER TANK FILTER
- PORTIONS OF THIS SYSTEM THAT CONTAIN RADIOACTIVE FLUIDS ARE IDENTIFIED BY QUALITY CLASSIFICATION (I) SHALL MEET THE ALLOCATING REQUIREMENTS
- THIS DRAWING BASED ON WESTINGHOUSE DRAWINGS M-738-00001 THROUGH M-738-00004.
- MAKE CONNECTION TO SIDE OR BOTTOM OF PIPE.
- SPUD. PIPE NORMALLY REMOVED. TO BE INSTALLED ONLY AFTER DEPRESSURIZATION FOR DRAINING.
- VENT LINE TO EXTEND WITHIN 12 INCHES OF FLOOR.
- OVERFLOW LOOP SEAL TO EXTEND 12 INCHES BELOW TANK AND 12 INCHES BELOW FLOOR. TO BE INSTALLED ONLY AFTER DEPRESSURIZATION FOR DRAINING.
- LOOP SEAL TO EXTEND 12" ABOVE AND BELOW PIPE.
- THE FOLLOWING EQUIPMENT IS SUPPLIED WITH EVAPORATOR PACKAGE BY VENDOR.
A. V-STRAINER-SH814
B. P-25035
C. T-25035
D. T-25035
E. F-25035
F. W-25035
- LOOP SEAL TO EXTEND 12 INCHES BELOW PIPE.
- THE PORTION OF THIS SYSTEM THAT IS OIL-LEAKED INCLUDES PIPING AND VALVES ASSOCIATED WITH CONDENSATE DEMONERALIZER AND FL. DRAIN TANK. SIDE OF THE REACTOR COOLANT DRAIN TANK HEAT EXCHANGER AND ITS ASSOCIATED PIPING AND VALVES.
- MECHANICAL DESIGNATION PER M-10801.
- THIS POINT DEFINES THE "D" CATEGORY FOR CONTAMINANT ISOLATION FROM THIS POINT DOWNSTREAM PIPING IS ANALYZED CONSIDERING A SINGLE SCENARIO OF FREEDOM.
- INDICATED PORTIONS OF THIS SYSTEM IDENTIFIED BY THIS NOTE AND QUALITY GROUP "D" NON-ARGUMENTED.
- DELETED.
- CONTROLS FOR WASTE EVAPORATOR ARE ON PANEL B08 (WASTE EVAPORATOR CONTROL PANEL).
- LINE B04 & B05 TO BE SCH. 80S WITH SCH. 40S BORE TO MATCH VALVES 7143, 7156, LCY-1803, HY-7136.
- INDICATED PORTIONS OF THIS SYSTEM TO BE 316 LSS.
- INDICATED VALVES TO BE LOCATED CLOSE TOGETHER.
- LOCATE INDICATOR WITHIN VIEW PUMP THROTTLING VALVE.
- PRESSURE CONTROLLER IS VALVE MOUNTED.
- INSTRUMENTATION IDENTIFIED BY THIS NOTE IS SUPPLIED BY THE SOLID RADWASTE PACKAGE VENDOR UNDER SPECIFICATION M-135.
- DELETED.
- DELETED.
- PIPING AND INSTRUMENTATION DIAGRAM FOR THE WASTE EVAPORATOR IS SHOWN ON WNDW. DRG. M-702-00041.
- REMOVABLE SPOOL PROVIDED FOR START-UP.
- LOCATE WASTE EVAPORATOR BEARING TANK TO ALLOW GRAVITY DRAIN TO WASTE EVAPORATOR.
- PIPING DOWNSTREAM OF THIS POINT IS ANALYZED CONSIDERING A SINGLE SCENARIO OF FREEDOM.
- REMOVABLE SPOOL, WITH SPACER RING, IS INSTALLED. (REPLACEMENT FOR START-UP STRAINER).
- STRAINER H850002 IS INSTALLED.
- CANNING/BLENDING OR REMOVING THE ABANDONED ASSETS/COMPONENTS IS NOT ALLOWED WITHOUT PRIOR ENGINEERING APPROVAL.

JSAR FIG. 11.2-1-01

ESSENTIAL DRAWING

REVISION	REVISION	REVISION	REVISION
01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

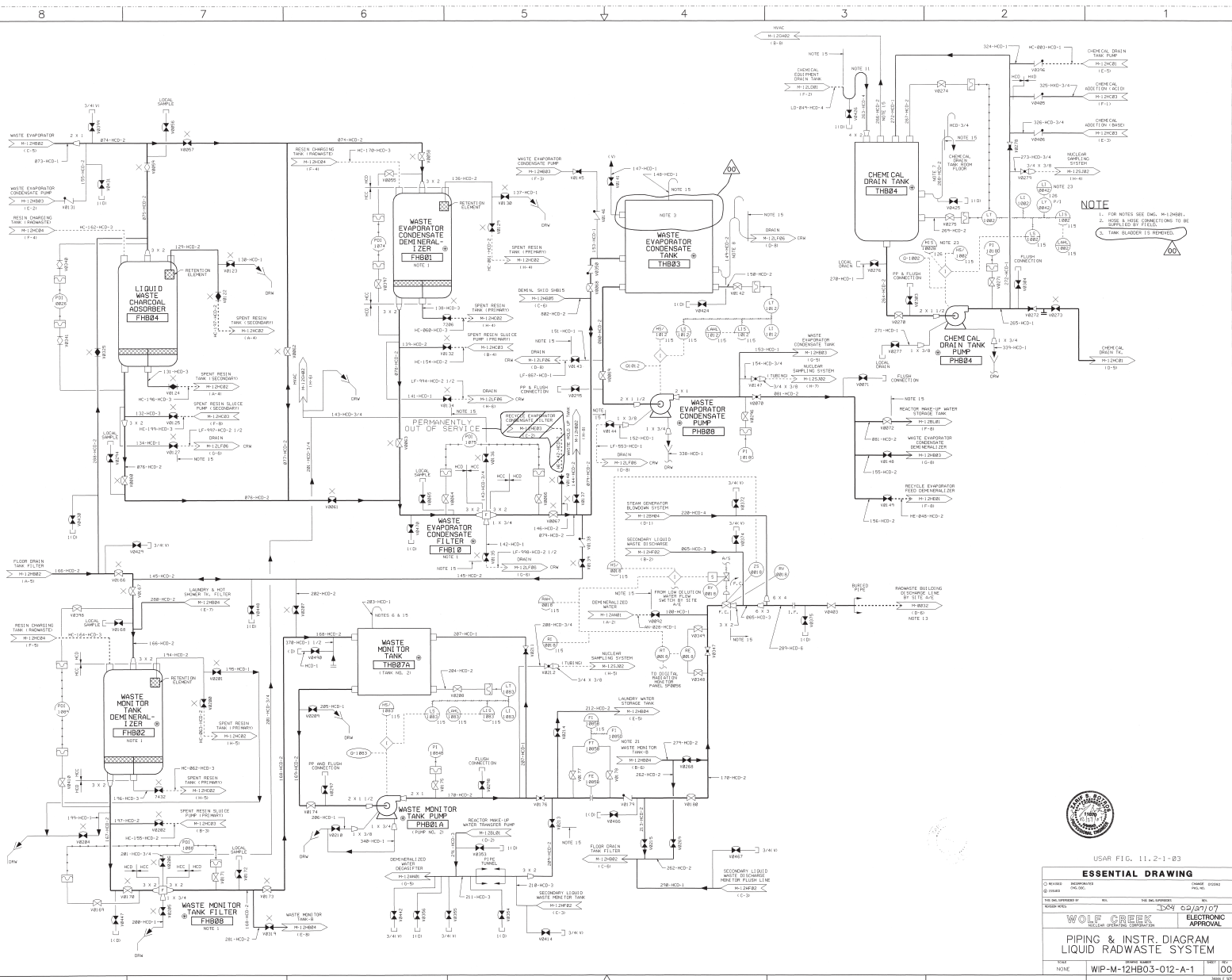
WOLF CREEK

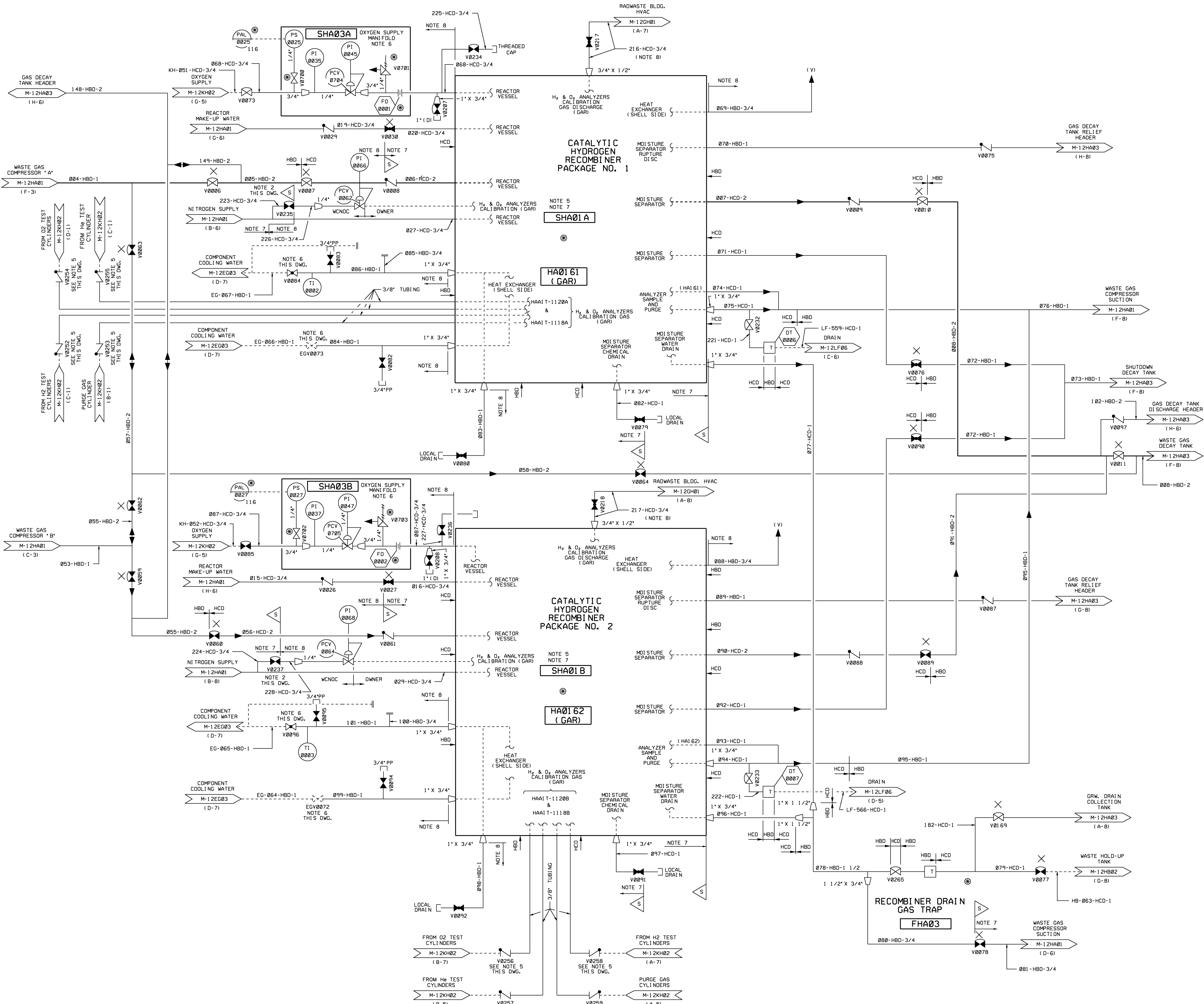
PIPING AND INSTRUMENTATION

DIAGRAM

LIQUID RADWASTE SYSTEM

M-12HB01





- NOTES**
1. FOR GENERAL NOTES, SEE DWG. M-12HA01.
 2. GAS SUPPLY SHALL BE ESTABLISHED IN THE FOLLOWING LINES:
027-HCD-3/4 AND 029-HCD-3/4 PRIOR TO THE OPENING OF VALVES V0235 AND V0237.
 3. DELETED
 4. VALVES PCV-62 AND PCV-64 TO REGULATE PRESSURE TO THE GAS ANALYZER RACK AT 25 PSIG.
 5. LOCATE CHECK VALVES AS CLOSE AS POSSIBLE TO GAS ANALYZER RACKS (HA-161 & HA-162).
 6. IF BOTH INLET AND OUTLET HEAT EXCHANGER VALVES ARE CLOSED THEN OPEN AT LEAST ONE OF THE PP OR VENT VALVES IN-BETWEEN THEM TO RELIEVE ANY POSSIBLE THERMAL EXPANSION.

14 USAR FIG. 11.3-1-02

ESSENTIAL DRAWING

REVISED	INCORPORATED	CR# 10002166	CHANGE
ISSUED	CHG. DEC.		PKG. NO.

THIS DWG. SUPERSEDES: REV. THIS DWG. SUPERSEDES: REV.

REVISION NOTES: REV. TO ADD USAR FIGURE NUMBER.

WOLF CREEK
NUCLEAR OPERATING CORPORATION

ELECTRONIC APPROVAL

PIPING & INSTRUMENTATION
DIAGRAM
GASEOUS RADWASTE SYSTEM

SCALE: NONE

DRAWING NUMBER: M-12HA02

SHEET: 14

REV: 14

3444 E SIZE

8

7

6

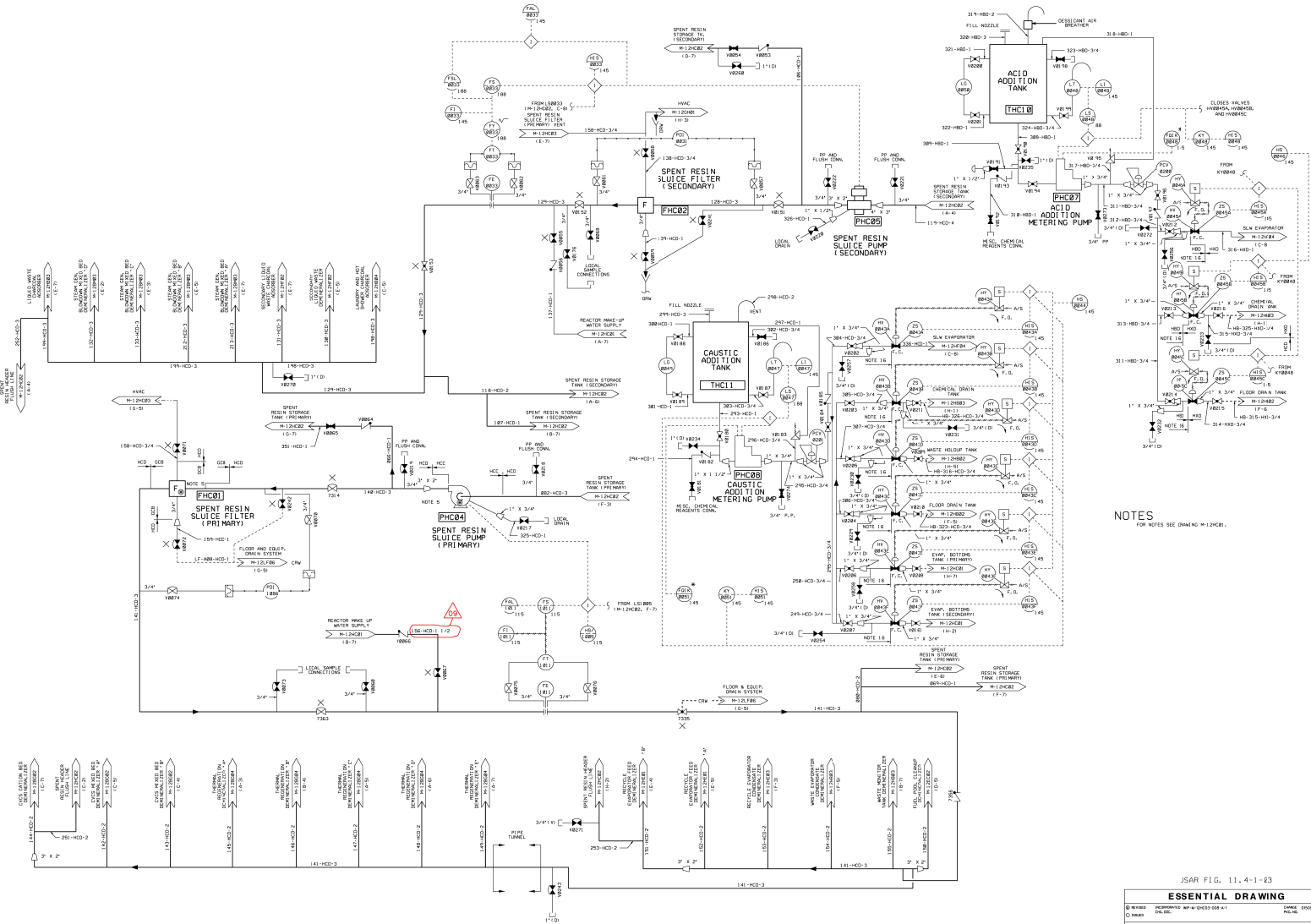
5

4

3

2

1



JSAR FIG. 11.4-1-83

ESSENTIAL DRAWING

DESIGNED BY	REVIEWED BY	DATE	REVISION
WOLF CREEK	WOLF CREEK	11/15/83	1
WOLF CREEK	WOLF CREEK	11/15/83	2
WOLF CREEK	WOLF CREEK	11/15/83	3
WOLF CREEK	WOLF CREEK	11/15/83	4
WOLF CREEK	WOLF CREEK	11/15/83	5
WOLF CREEK	WOLF CREEK	11/15/83	6
WOLF CREEK	WOLF CREEK	11/15/83	7
WOLF CREEK	WOLF CREEK	11/15/83	8
WOLF CREEK	WOLF CREEK	11/15/83	9
WOLF CREEK	WOLF CREEK	11/15/83	10
WOLF CREEK	WOLF CREEK	11/15/83	11
WOLF CREEK	WOLF CREEK	11/15/83	12
WOLF CREEK	WOLF CREEK	11/15/83	13
WOLF CREEK	WOLF CREEK	11/15/83	14
WOLF CREEK	WOLF CREEK	11/15/83	15
WOLF CREEK	WOLF CREEK	11/15/83	16
WOLF CREEK	WOLF CREEK	11/15/83	17
WOLF CREEK	WOLF CREEK	11/15/83	18
WOLF CREEK	WOLF CREEK	11/15/83	19
WOLF CREEK	WOLF CREEK	11/15/83	20
WOLF CREEK	WOLF CREEK	11/15/83	21
WOLF CREEK	WOLF CREEK	11/15/83	22
WOLF CREEK	WOLF CREEK	11/15/83	23
WOLF CREEK	WOLF CREEK	11/15/83	24
WOLF CREEK	WOLF CREEK	11/15/83	25
WOLF CREEK	WOLF CREEK	11/15/83	26
WOLF CREEK	WOLF CREEK	11/15/83	27
WOLF CREEK	WOLF CREEK	11/15/83	28
WOLF CREEK	WOLF CREEK	11/15/83	29
WOLF CREEK	WOLF CREEK	11/15/83	30
WOLF CREEK	WOLF CREEK	11/15/83	31
WOLF CREEK	WOLF CREEK	11/15/83	32
WOLF CREEK	WOLF CREEK	11/15/83	33
WOLF CREEK	WOLF CREEK	11/15/83	34
WOLF CREEK	WOLF CREEK	11/15/83	35
WOLF CREEK	WOLF CREEK	11/15/83	36
WOLF CREEK	WOLF CREEK	11/15/83	37
WOLF CREEK	WOLF CREEK	11/15/83	38
WOLF CREEK	WOLF CREEK	11/15/83	39
WOLF CREEK	WOLF CREEK	11/15/83	40
WOLF CREEK	WOLF CREEK	11/15/83	41
WOLF CREEK	WOLF CREEK	11/15/83	42
WOLF CREEK	WOLF CREEK	11/15/83	43
WOLF CREEK	WOLF CREEK	11/15/83	44
WOLF CREEK	WOLF CREEK	11/15/83	45
WOLF CREEK	WOLF CREEK	11/15/83	46
WOLF CREEK	WOLF CREEK	11/15/83	47
WOLF CREEK	WOLF CREEK	11/15/83	48
WOLF CREEK	WOLF CREEK	11/15/83	49
WOLF CREEK	WOLF CREEK	11/15/83	50
WOLF CREEK	WOLF CREEK	11/15/83	51
WOLF CREEK	WOLF CREEK	11/15/83	52
WOLF CREEK	WOLF CREEK	11/15/83	53
WOLF CREEK	WOLF CREEK	11/15/83	54
WOLF CREEK	WOLF CREEK	11/15/83	55
WOLF CREEK	WOLF CREEK	11/15/83	56
WOLF CREEK	WOLF CREEK	11/15/83	57
WOLF CREEK	WOLF CREEK	11/15/83	58
WOLF CREEK	WOLF CREEK	11/15/83	59
WOLF CREEK	WOLF CREEK	11/15/83	60
WOLF CREEK	WOLF CREEK	11/15/83	61
WOLF CREEK	WOLF CREEK	11/15/83	62
WOLF CREEK	WOLF CREEK	11/15/83	63
WOLF CREEK	WOLF CREEK	11/15/83	64
WOLF CREEK	WOLF CREEK	11/15/83	65
WOLF CREEK	WOLF CREEK	11/15/83	66
WOLF CREEK	WOLF CREEK	11/15/83	67
WOLF CREEK	WOLF CREEK	11/15/83	68
WOLF CREEK	WOLF CREEK	11/15/83	69
WOLF CREEK	WOLF CREEK	11/15/83	70
WOLF CREEK	WOLF CREEK	11/15/83	71
WOLF CREEK	WOLF CREEK	11/15/83	72
WOLF CREEK	WOLF CREEK	11/15/83	73
WOLF CREEK	WOLF CREEK	11/15/83	74
WOLF CREEK	WOLF CREEK	11/15/83	75
WOLF CREEK	WOLF CREEK	11/15/83	76
WOLF CREEK	WOLF CREEK	11/15/83	77
WOLF CREEK	WOLF CREEK	11/15/83	78
WOLF CREEK	WOLF CREEK	11/15/83	79
WOLF CREEK	WOLF CREEK	11/15/83	80
WOLF CREEK	WOLF CREEK	11/15/83	81
WOLF CREEK	WOLF CREEK	11/15/83	82
WOLF CREEK	WOLF CREEK	11/15/83	83
WOLF CREEK	WOLF CREEK	11/15/83	84
WOLF CREEK	WOLF CREEK	11/15/83	85
WOLF CREEK	WOLF CREEK	11/15/83	86
WOLF CREEK	WOLF CREEK	11/15/83	87
WOLF CREEK	WOLF CREEK	11/15/83	88
WOLF CREEK	WOLF CREEK	11/15/83	89
WOLF CREEK	WOLF CREEK	11/15/83	90
WOLF CREEK	WOLF CREEK	11/15/83	91
WOLF CREEK	WOLF CREEK	11/15/83	92
WOLF CREEK	WOLF CREEK	11/15/83	93
WOLF CREEK	WOLF CREEK	11/15/83	94
WOLF CREEK	WOLF CREEK	11/15/83	95
WOLF CREEK	WOLF CREEK	11/15/83	96
WOLF CREEK	WOLF CREEK	11/15/83	97
WOLF CREEK	WOLF CREEK	11/15/83	98
WOLF CREEK	WOLF CREEK	11/15/83	99
WOLF CREEK	WOLF CREEK	11/15/83	100

WOLF CREEK
PIPING AND INSTRUMENTATION
DIAGRAM
SOLID RADWASTE SYSTEM
M-12HC03

09

