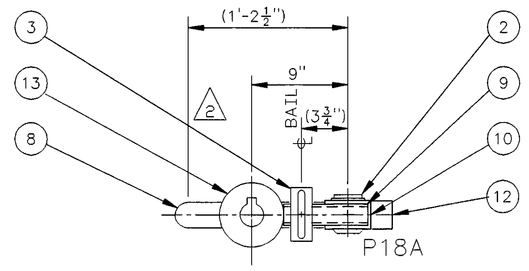
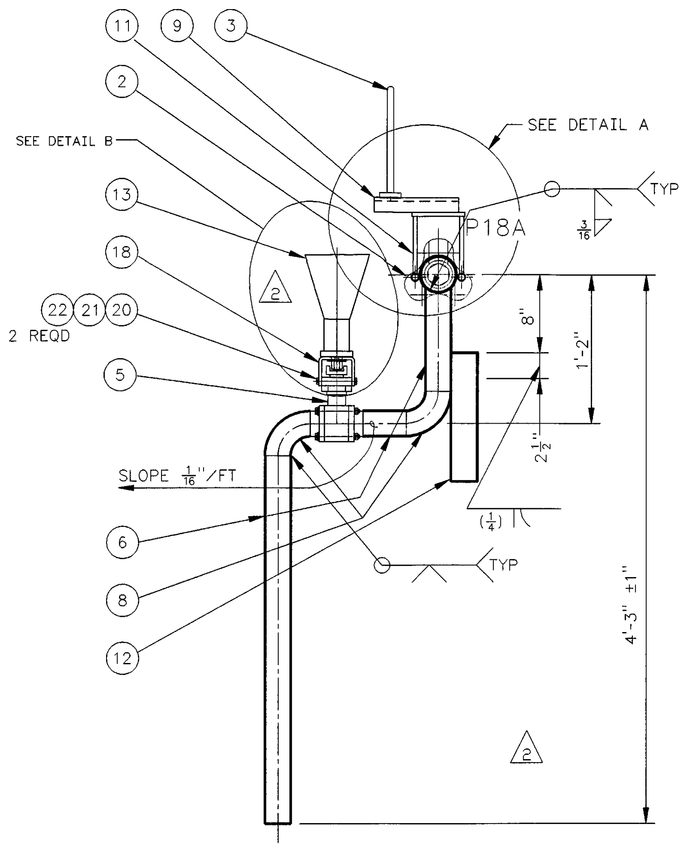
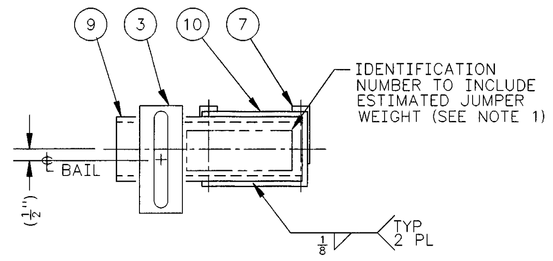


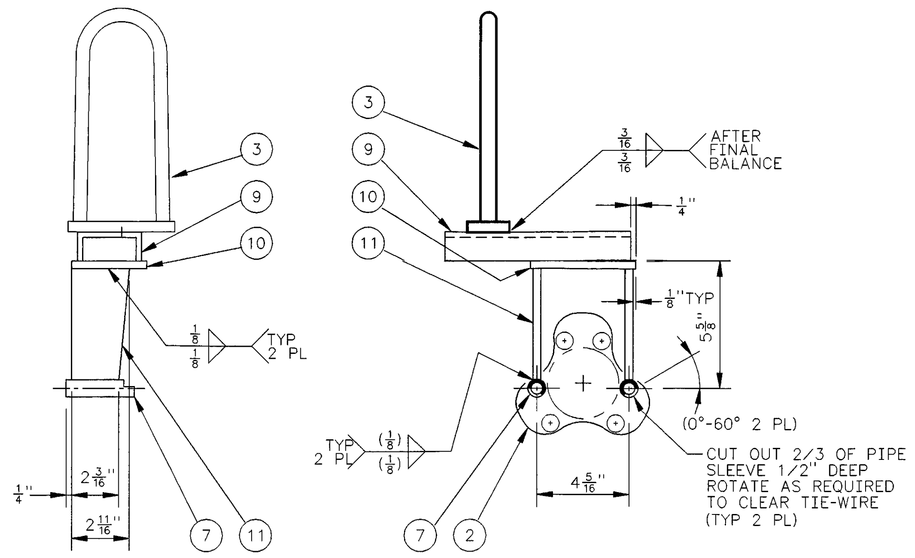
PLAN



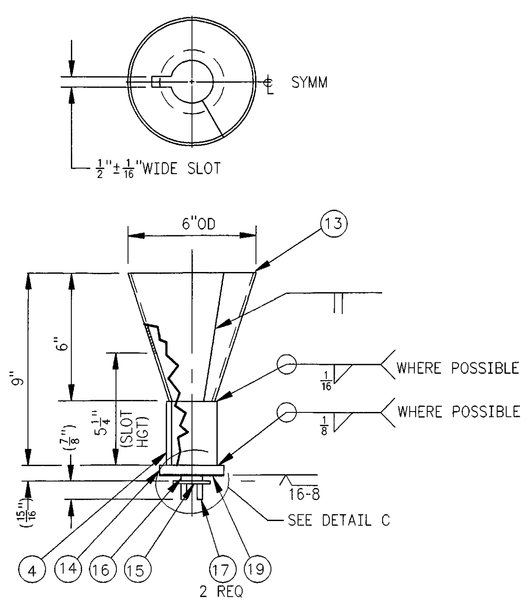
ELEVATION

1 ASSEMBLY
SCALE: 1 1/2"=1'-0"



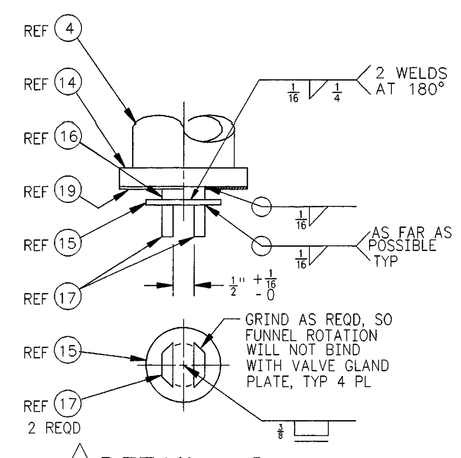


DETAIL A
SCALE: NONE
NOTE: PIPING REMOVED FOR CLARITY

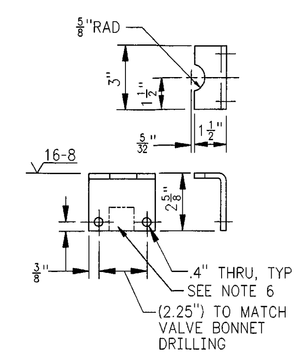


1. OPERATOR SLOT SHALL BE ALIGNED WITH THE BALL THRU PORT.
OPERATOR SLOT — VALVE BALL PORTS
2. APPROX ASSEMBLED WEIGHT = 3.5#

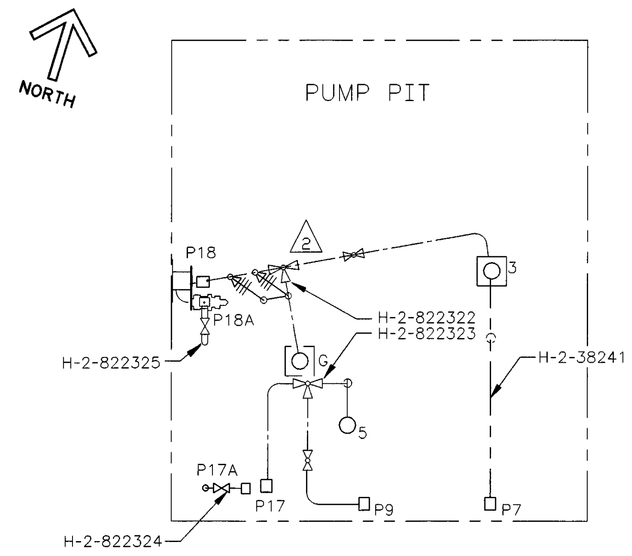
DETAIL B
SCALE: NONE



DETAIL C
SCALE: NONE



18 BRACKET
SCALE: NONE
MAT'L: 1/4" THICK, ASTM A36
WEIGHT: APPROX .8#



LIFT STATION 244-A
H-2-822321

KEY PLAN
SCALE: NONE

QTY	PN	DESCRIPTION	MATERIAL
X	1	ASSEMBLY	----------
1	2	CONNECTOR ASSEMBLY, 2"HORIZONTAL, WITH VITON O-RING, SEE NOTE 8	H-2-821404-130
1	3	STANDARD RIGID LIFTING BAIL ASSEMBLY	H-2-90161-3
1	4	PIPE, 2" SCHED 80 x 3"L	ASTM A53, GR B TYPE F OR S
1	5	BALL VALVE, 2"CLASS 300, SEE NOTE 5 & 7	WORCESTER CONTROLS SERIES 94 OR APVD EQL
AR	6	PIPE, 2" SCHEDULE 40S	ASTM A312 GR TP 304L
2	7	PIPE, 1/2" SCHEDULE 80 x 3-3/16"L	ASTM A53 TYPE F GR B
2	8	ELBOW, 2" SCHED 40S 90° LONG RADIUS BUTTWELD	ASTM A403 WP S 304L
1	9	CHANNEL 3 x 4.1 x 9" L	ASTM A 36
1	10	BAR 3-1/2 x 3/8 x 4-15/16" L	ASTM A 36
2	11	BAR 3/8	ASTM A 36
1	12	COUNTER WEIGHT BAR 2-1/2 SQ x 1'-0"L (APPROX WT=21 LB)	ASTM A 36
AR	13	SHEET, 16 GA (.060) x AS REQD	ASTM A 569
1	14	BAR, 1/2"THK x 3"DIA	ASTM A36
1	15	BAR, 1/8"THK x 2"DIA	ASTM A36
1	16	ROUND BAR, 1"DIA x 5/16"L	ASTM A36
2	17	BAR, 1/4" THK x 3/4" x LG AS REQD	ASTM A36
2	18	BRACKET, 1/4"THK	ASTM A36
1	19	GLIDE, .06" THK x 3"OD x 1"ID	TEFLON
2	20	BOLT, 3/8-16UNC-2A x 4"L	ANSI B18.2.1, 18-8 SST
2	21	NUT, 3/8-16UNC-2B	ANSI B18.22.1, 18-8 SST
4	22	WASHER, 3/8xRGLR SERIES, TYPE B	ANSI B18.22.1, 18-8 SST

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. FABRICATION AND TESTING SHALL BE IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION W-058-C2, SECTION 15493, APPENDIX A.
2. HYDROSTATIC TEST SHALL BE AT 600 PSIG.
3. JUMPER WEIGHT IS APPROXIMATELY 110 LB.
4. ALL CALCULATIONS REQUIRED TO SUPPORT JUMPER DESIGN CRITICALS, JUMPER BALANCING AND PIPE STRESS ANALYSIS ARE IDENTIFIED BY CALCULATION PACKAGE NUMBER W058-P-019, W058-P-025, AND W058-P-028.
5. 2-WAY, FULL PORT, 316 STAINLESS STEEL BALL VALVE WITH DUAL STEM SEALS (ANTI-FUGITIVE EMISSION). CLASS 300 WITH BUTT WELD ENDS TO MATCH SCHEDULE 40 PIPE IN ACCORDANCE WITH ASME/ANSI B16.34 AND ASME B31.3. SEATS AND SEALS SHALL BE COMPATIBLE FOR A WORKING PRESSURE OF 400 PSIG AT 200 DEGREES F AND RADIATION RESISTANT FOR 3×10^6 RAD (TOTAL ACCUMULATED DOSE). FLUID WILL BE A SLURRY WITH A PH FROM 7 TO 11 AND AN ASTM MILLER NUMBER OF LESS THAN 100 (ABRASIVENESS). VALVE SHALL HAVE A SHELL AND CLOSURE TEST IN ACCORDANCE WITH ASME/ANSI B16.34 WITH LEAKAGE CRITERIA IN ACCORDANCE WITH MSS-SP-61.
6. SHOP MAY MODIFY THE "BRACKET", PN 18, TO ADAPT TO THE SUPPLIED VALVE BONNET, AS REQUIRED.
7. SHOP MAY MODIFY THE SUPPLIED VALVE HANDLE STOP AS REQUIRED TO ALLOW FUNNEL ASSEMBLY OPERATION.
8. SHOP MAY MODIFY THE LENGTH OF THE "ROTATION STOP", ITEM NUMBER = 29, OF DRAWING H-2-821404 AS REQUIRED TO FIT BETWEEN A TIE ROD AND PN 7.

STATE OF WASHINGTON — JAMES R. COLLINS — 16941 — REGISTERED PROFESSIONAL ENGINEER — 2/2/97

EXPIRES: 11/11/2999

DESIGNED Wm ZICKUHR DATE	SAFETY CLASS 3	M	USE CONSTRUCTION
DSGN ENGR KELLY K. HAYASE 8-25-1995			EDT 612961
CHECKED L. HALL 8-25-1995	U.S. DEPARTMENT OF ENERGY RICHLAND OPERATIONS OFFICE ICF KAISER HANFORD COMPANY		
SAFETY SEE DR/AT FORM	JUMPER ASSEMBLY P18A LIFT STATION 244-A		
ENVIR SEE DR/AT FORM			
QUAL ENGR SEE DR/AT FORM			
LEAD ENGR J.R. COLLINS 8-25-1995			
REVIEW NO. 10 8-25-1995	PROJECT W-058, REPLACEMENT OF CROSS - SITE TRANSFER SYSTEM		
APPROVED FOR IMPL/INC FOR DATE	SIZE F	BLDG NO. 244-A	INDEX NO. 8405	DWG NO. H-2-822325	REV NO. 2
APPROVED FOR IMPLEMENTATION BY C. VAN KATWIJK FOR WHC DATE 8-26-95	SCALE SHOWN	JOB NO. CR1320	SHEET 1 OF 1

NUMBER	TITLE	NUMBER	TITLE	MF	REV NO.	DESCRIPTION	REV BY DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
DRAWING TRACEABILITY LIST		W-058-C2 W-058 CONSTRUCTION SPEC		S	2	289, 301 W-058-142, 284, 258, REVISED PER ECNS: W-058 PROJECT TURNOVER	DBC 8-13 1997	2/2/97	12/3/97
		H-2-822200 DRAWING LIST							
		REFERENCES		REVISIONS					

NEXT USED ON H-2-822320 | CAD FILE B822325A | CAD CODE 2J:IBM:ACD2:12.0:NN | XREFS N

2 PLOT SCALE: 1=1 | KEHCAD | 1 | KEH 0350.00 (03-94) STRTKEHP: 1994030300