PUMP SCHEDULE & EDUCTOR

ITEM	GPM	DISCH. HD FT H2O	RPM	TYPE	SERVICE	REMARKS
33	100	60	1750	VERT. WET SUMP	STORM & FLOOR DRAINAGE	SEE NOTE "1"
34	SEE NOTE ON SEC F - DWG X1-M-20				LO_2 AREA DRAINAGE	

1- EXPLOSION PROOF MOTORS & ELECTRICAL ACCESSORIES SUITABLE FOR HANDLING RP-1

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	CONNECTORS TRAP	S or W	VENT	CW	HW	REMARKS
D-1	FLOOR DRAIN	4"	3&4	4			
D-2	STORM DRAIN		6&8				
D-3	FLOOR DRAIN		3	3			
D-4	FLOOR DRAIN		3	3			
DWD	DRINK. DISPEN.	1½	2	1½	½		
P-1	EMERG. SHOWER	4	3&4	4	½		
P-2	EYE WASH	2"	2"	4	½"		
P-3	FLOOR SINK	4"	4"	4"	½"		
D-5	FLOOR DRAIN		4"	4"			COMB. FLOR. "P" TRAP C.O. & B.W. VALVE CAST IRON
D-6	EQUIP. DRAIN	2"	2"				
D-7	EQUIP. DRAIN		2"				BLACK STEEL

CONST. NOTE ON LO_2 DRAINAGE.
1- LO_2 DRAIN PIPE, FLOOR DRAINS AND FITTINGS SHALL BE WELDED

NOTE:

LEGEND

SYMBOL	ABBRV.	DESCRIPTION
	S or W	SOIL OR WASTE
- - - -	V	VENT
	CW	COLD WATER
	CO	CLEAN OUT
	CI	CAST IRON
	DR	DRAIN
	GALV	GALVANIZED ST'L PIPE
	DWD	DRINKING WATER DISPENSER
	PG	PRESS. GAGE
	CWS	COOLING WATER SUPPLY
	CWR	COOLING WATER RETURN

1" EDUCTOR DISCHARGE FOR D3-C-13, E3-C-13, F3-C-13, G3-C-13, H3-C-13 & I3-C-13

3" LO_2 SUMP VENT FOR CONT. SEE DWG X1-M-20

3"/150# FLGD CHECK VALVE

3" VENT ABOVE ROOF SLOPE ¼"/FT.

VENT. 3" 180° RETURN FTG. SEE X1-M-20

SIDE OUTLET DRAIN FACE OF DR. EL. 90'-11" ℄ EL. 80'-2½"

INV. 112'-5"

INV. EL. 90'-9½"

INV. EL. 90'-6"

3" BLACK STEEL SCHD. 40 "EXTERNAL ONLY TAR COATED" LO_2 AREA DRAINAGE SYSTEM

SLOPE ¼"/1'-0"

FACE OF DR. EL. 95'-11" INV. EL. 91'-8"

EMERGENCY SHOWER UNDER SEPARATE CONTRACT SEE DETAIL

FACE OF DR. EL. 99'-10" INV. EL. 95'-0"

EMERG. SHOWER

EYE WASH

BOP EL 110'-6½"

BOP EL 110'-2"

2"x3" ECC RED.

PRV SET @ 10"

2½" - REDUCE TO 1½" AT VALVE

HOSE RACK.

℄ EL 104'-6"

FOR HANGERS ON THIS LINE SEE X1-M-42

4" ℄ B.O.P. EL. 110'-2"

B2-4

B3-7

3-3" SLEEVES THRU TRENCH FLOOR TO FRAME RM'S, SEE X1-S-2.

DRAIN EL. 80'-3"

INV. EL. 79'-10"

REVISION NOTE 4
a. REV'D BLDG. ¼" HUB AT COL. A
b. REV'D WATER SUPPLY IN UTILITY TUNNEL
c. REV'D COLLIMATOR PIT DRAIN
d. REV'D EMERGENCY SHOWERS
e. DELETED PRV & WATER TO CONDENSATE RECEIVER

COLLIMATOR PIT

FACE OF DR. EL. 90'-10" INV. EL. = 89'-3"

COMB. FLOOR DRAIN, "P" TRAP, CLEAN OUT & BACK WATER VALVE

℄ EL. 98'-4"

6" - ANTI-FIRE

4" SKIRT FIREX

10'-0" W/CAP.

6" NPT W/CAP.

7'-9"

6'-3

4" WATER 10'-6

6" DRAIN - SEE X3-C-11

3"ϕ TILE DRAIN

SITE G ONLY

4" VENT

FOR CONT. SEE D3-C-13, E3-C-13, F3-C-13, G3-C-13, H3-C-13 & I3-C-13.

REFERENCE DRAWINGS

E3-C-14 EXCAVATION & BACKFILL FOR UTILITY TUNNEL "E"

1 IN. = 1 FT.

FACE OF HUB EL 100'-12" INV. EL. 94'-9" "DRAIN FROM COILS"

4" GALV VENT ℄ EL 118'-5"

INV. EL. 94'-0"

INV. EL. 93'-0"

6" C.I.

BG-1

4" C.O

℄ EL 118'-7"

4" C.I. INV. EL. 94'-4½"

4" C.I. INV. EL. 94'-6"

4" C.I. INV. EL. 94'-8"

4" C.I. INV. EL. 95'-0"

4" C.I. INV. EL. 95'-0" FACE OF DR. EL. 89'-9"

4" C.I. INV. EL. 95'-0" FACE OF DR. EL. 89'-11"

4" C.O.

B5-3

B5-1

B5-2

B3-6

B3-5

B3-4

B3-3

B2-1

B2-2

B1-2

B8-1

B7-1

B7-2

B5-4

RPI GAS DETECTING UNIT

HOSE RACK

EYE WASH

PRV SET @ 10"

3" HOSE BIBB

DWD

2" GATE VAL. SOLENOID VALVE

FACE OF DR. EL. 97'-9" INV. EL. 95'-0"

FACE OF DR. EL. 97'-5" INV. EL. 95'-0"

H.S.U.

2" WATER SUPPLY TO H.S.U.

G'ϕ WATER HDR

FOR HEADS AT CEILING (FIELD SUPPORT)

FOR ARRGT. OF PIPING IN TUNNEL SEE DWG X3-C

FOR OTHER PIPING IN THIS AREA SEE DWG X1-M-42

WALL PENETRATION SLEEVE SEE DWG X1-S-19

6" WATER SUPPLY HEADER

4" FLOOR DRAIN WITH P TRAP & BACK WATER VALVE

4" SUB DRAIN

FOR CONT SEE DETAIL 1

DETAIL 1 & 4
PLAN-TUNNEL ENTRANCE

PLAN

REVISION	DATE	DESCRIPTION	AGENCY APP.
5	12-11-61	OPERATIONAL AS BUILT DWG INCLUDES ECP #307	BECHTEL R.A.B.
4	6 MAY 61	CONSTRUCTION AS BUILT DWG SEE REVISION NOTE #4	R.C.E.
3	4-4-60	SEE REVISION NOTE #3	
2	4-4-60	SEE REVISION NOTE #2	
1	8 DEC 59	ADD 4" WATER LINE TO H.S.U. & 4" SLEEVE THRU WALL TO H.S.U.	
0	8 SEPT 59	LOCATED 3" DRAIN AT H.S.U.	

BECHTEL CORPORATION
ENGINEERS AND CONSTRUCTORS
SAN FRANCISCO — LOS ANGELES — NEW YORK

DEPARTMENT OF THE AIR FORCE
AIR FORCE BALLISTIC MISSILE DIVISION (ARDC)
INGLEWOOD, CALIFORNIA

	DATE
DESIGNED BY	D. PARKER 1-5-59
DRAWN BY	L. EPPERT 1-5-59
CHECKED BY	A. GAGLIANO 1-29-59
O.K.	[illegible] 5-21-59
O.K.	[illegible] 5-21-59
APPROVED	BECHTEL CORP. 5-21-59

WS-107 A-1 OPERATIONAL BASE
FORBES A.F.B. KANSAS
COMPLEXES D, E, F, G, H & I
LAUNCH & SERVICE BUILDING
PLUMBING PLAN

APPROVED FOR AFBMD — DATE

SPECIFICATION No. ENG-23-029-59
DATE 21 MAY 59 — SCALE ⅛" = 1'-0"
DRAWING NUMBER 3115-3 XI-M-19 — SHEET

BMD INDEX No. 5D1.6