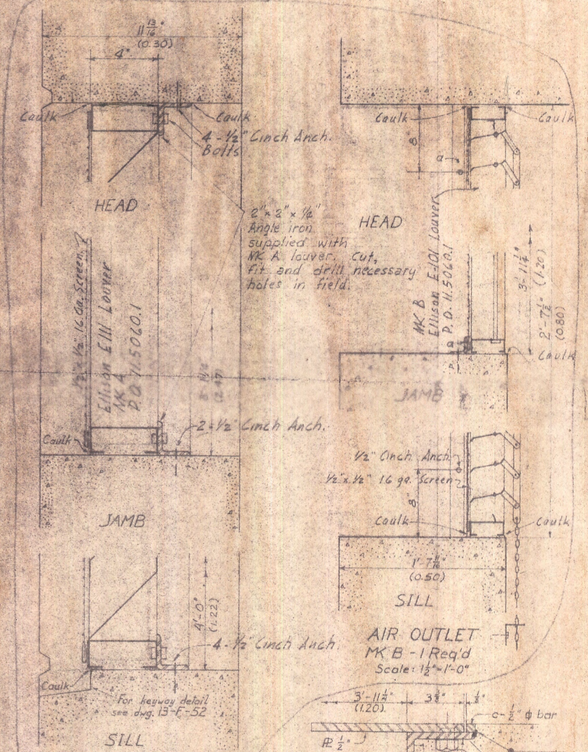
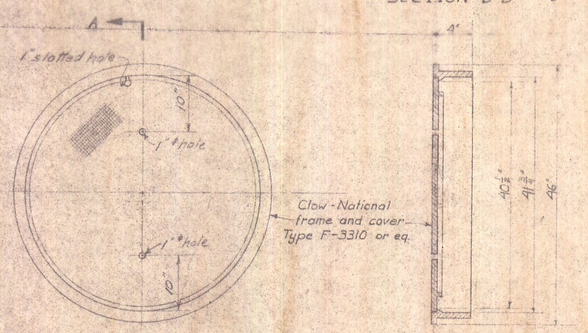
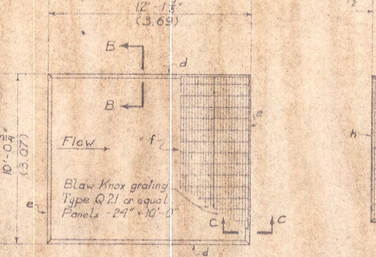
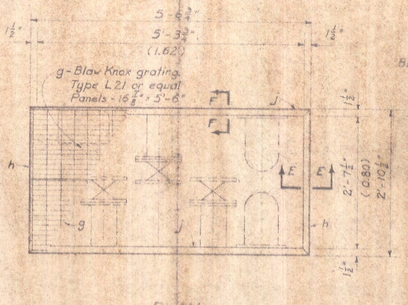
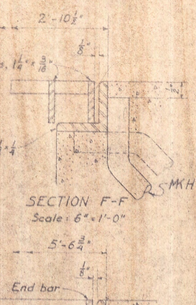
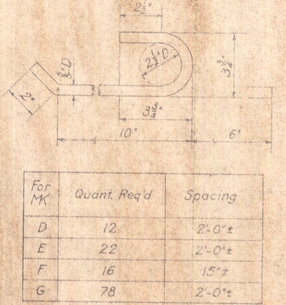




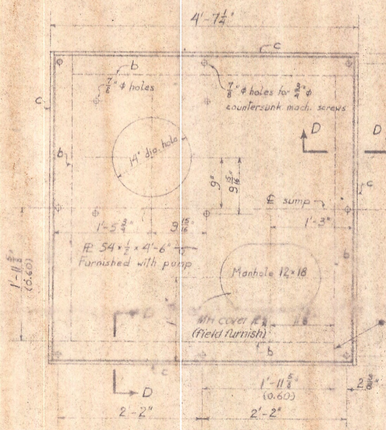


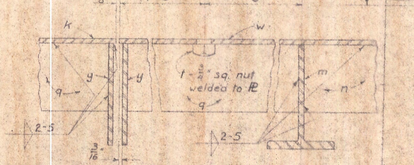


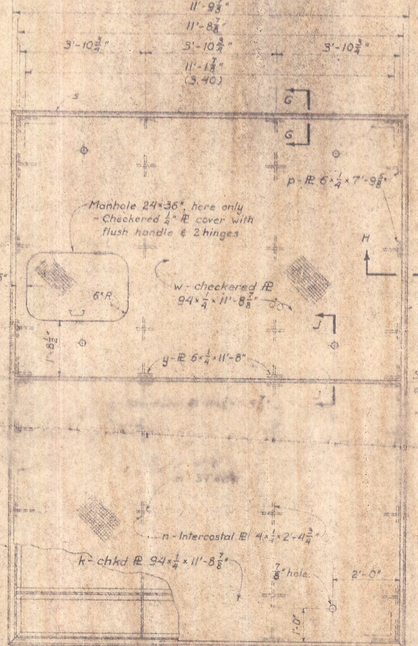


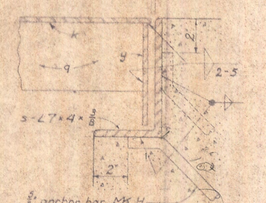


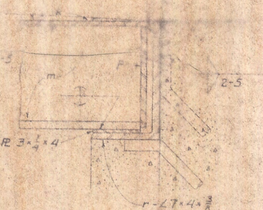
For MK	Quant. Req'd	Spacing
D	12	2'-0"±
E	22	2'-0"±
F	16	15"±
G	78	2'-0"±











Asm. MK	Pc. MK	Quant	Description	Length Unit ft	Length Unit in	Length Total ft	Length Total in	Total weight
A		1	Ellison Stationery Louver or eq	as shown				
B		1	Ellison Adjustable Louvers or eq	as shown				
	a	2	L 2 × 2 × ¼	2	7½	5	2½	17
C		6	Manhole frame & cover Clow-National, F 3310, or eq	as shown				2760
D	b	4	L 4 × 3½ × ⅜	4	3½	17		145
	c	4	½ ø bar	4	6 5/16	18	3	16
	v	8	¾" sq. nut & flat hd cap screw	0	1⅞			4
E	d	2	L 2½ × 2 × ¼ (mitered)	12	11⅞	24	2⅜	88
	e	2	do	10	0⅜	20	1½	73
	f	6	Blaw-Knox grating Q21, or eq	24" × 10'-0" panels				
F	g	2	do L21, or eq	16⅞" × 5'-6" panels				
	h	2	L 1½ × 1½ × ⅛ (mitered)	2	10⅛	5	9	14
	j	2	do	5	6⅜	11	1½	28
G	k	3	Chkd PL 94 × ⅛	11	8⅝	35	2⅝	3100
	m	18	ST 6 B 11	11	8	210	0	2310
	n	24	PL 9 × ¼	2	9⅜	57	6	195
	y	12	PL 6 × ¼	11	8	148	0	714
	p	12	do	7	9⅝	93	7½	478
	q	24	PL 9 × ½	1	5⅞	34	10⅝	119
	r	6	L 7 × 4 × ⅜ (mitered)	15	9⅛	94	6½	1286
	s	6	do	11	9⅛	70	11½	965
	t	24	¾" sq. nut					3
	u	36	PL 3 × ¼	0	4	12	0	31
	w	3	Chkd PL 94 × ¼ with manhole	11	8⅛	35	2⅝	3100
		4	½" Cinch anchor (field furnish)					
H			⅝" ø - 18" lg. anchor bar (field furnish)			200 lin ft		

NOTES:
All mark numbers to have the prefix KAJ-15-F-56.
Dimensions in parentheses, thus ( ), are in meters.
Fabrication to be in accordance with AISC standards.
Shop paint all exposed metal surfaces with one coat zinc chromatic primer.
Ship all frame angles knocked down.

REFERENCE DRAWINGS:

13-F-51	Handrailing and Ladders
13-F-42	Concrete Outline - Sheet 1
13-F-43	do - Sheet 2
13-F-44	do - Sheet 3
15-F-53	Steel Conduit Assembly & Miscellaneous Details
15-F-62	Piping, Penstock, and Tunnel Conduit Drains

Scale: 3" = 1'-0" except as noted

NO	DATE	MADE	CHKD	APP'D	REVISIONS
5	24 Sept 52	C.W.W.	E.S.	Ward	Revise Louvers Mk A & B
4	30 July 52	E.F.Y.	R.E.H.	Ward	As furnished. Mk. C & V
3	19 Jun. 52	D.R.P.	E.E.H.	Ward	Added manhole cover note
2	6-6-52	N.F.	R.E.H.	Ward	Added anchor bars Mk H
1	22 Apr 52	D.R.P.	E.E.H.	Ward	Louver screen moved to inside

MORRISON - KNUDSEN AFGHANISTAN, INC.
KAJAKAI DAM
IRRIGATION TUNNEL
VALVE HOUSE AND TUNNEL MISCELLANEOUS METALWORK
INTERNATIONAL ENGINEERING CO., INC.

DESIGNED N.F. DRAWN N.F. CHKD. D.R.P. INSP. A.H.H.
SUBMITTED RECOMMENDED APPROVED

15-F-56R5
SAN FRANCISCO, CAL.
DATE FEBRUARY 21, 1952