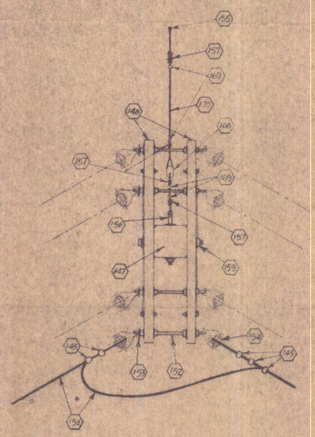
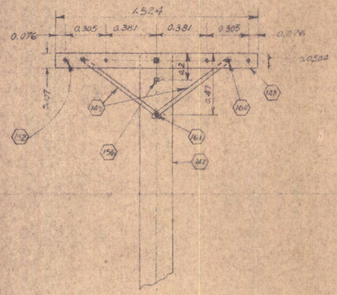
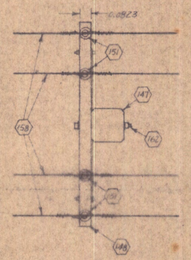
DISTRIBUTION LINE PLAN
Scale 1:1000



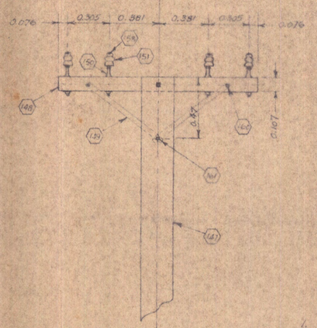
DETAIL A
Plan of line changing direction or dead end
Scale 1:20



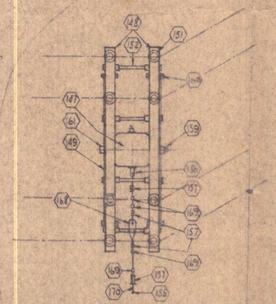
ELEVATION OF DETAIL A
Cable and clevis not shown
Scale 1:20



DETAIL B
Plan of tangent line
Scale 1:20



ELEVATION OF DETAIL B
Scale 1:20



DETAIL C
Plan of line changing direction
Scale 1:20

BILL OF MATERIAL

SYMBOL	ITEM No.	QUAN. ORD'D.	QUAN. REQ'D.	DESCRIPTION	P.O. No.
	147	-	19	Reinforced concrete pole, 25×25 cm. uniform cross section, 10m. long. (See Note No. 1)	Field
	148	30	24	Wood cross arm, 3¼"×4¼"×5'0" long. Bored in field.	5094
	149	60	48	Ribbed crossarm brace	
	150	70	56	Forged steel pins, ¾" shank	
	151	70	56	Pin type insulator	
	152	30	20	Double arming eye bolt, with 4 square nuts & 4 flat square washers, ⅝"×20"	
	153	25	16	Short bolt eye.	
	154	50	36	Insulated clevis	
	155	8	5	Rock anchor bolt for guys	Field
	156	8	5	Angle eye bolt for guy wire	5094
	157	25	20	Guy clamp	
	170	400	300 ft.	Guy wire, ⅜" diam., 7 strand, galvanized.	
	145	108	96	Cable connector, #3/0 ACSR to #3/0 ACSR	
	146	10	8	Cable connector, #3/0 ACSR to #2 copper	
	158	300 lbs.	200 lbs. 10,000 ft.	#3/0 ACSR cable	
	159	8	5	Crossarm bolt, ¾"×20" with 2 square washers	
	160	100	48	Crossarm brace bolt, ⅝"×4¼" with square washer	
	161	30	24	Crossarm brace bolt, ⅝"×14" with square washer	
	164	20	14	Crossarm bolt, ¾"×12" with 2 square washers	
	165	10	6	Connector, #2 to two #12 copper	
	166	5	2	Connector, #1/0 to #2 or #1/0 to #12 copper	
	168	8	5	Guy insulator	
	169	30	20	Guy wire servisleeve	

REFERENCE DRAWINGS

1 17-F-4 Valve House, Power and Lighting Sections
2 17-F-7 Emergency Generator House, Power and Lighting.
3 17-F-8 Single Line Diagram

GENERAL NOTES

1. For details of reinforced concrete pole and setting information see Arghandab Dwg. No. 17-F-3. The ¾" pipe sleeves through the concrete pole are to be placed in accordance with details A and B of this plan.
2. Detail A applies to the three line angles as shown on the plan and to the dead-end at the Valve House. The dead-end at the Emergency Generator House is similar to Detail A but only four insulated clevises are required and the short bolt eyes are left off. Cable connectors, item 146, are used at the Emergency Generator House to connect the #2 copper to the #3/0 aluminum cable.
3. Tie line cables to pin insulators with one strand from aluminum line cable.

Scale: As shown

REV. No.	DATE	MADE	CHK'D	APP'D
2	Added detail C. 5-6-53	EC	NPH	
1	Removed P.O. No. on B/M item 155. Field to Furnish. 9-16-52	E.L.M.	CML	[illegible]

MORRISON - KNUDSEN AFGHANISTAN, INC.

KAJAKAI DAM

ELECTRICAL AERIAL DISTRIBUTION LINE PLAN AND DETAILS

INTERNATIONAL ENGINEERING CO., INC.

DESIGNED W.E.G. DRAWN W.E.G. CHKD. C.M.L. INSP. E.L.M. SUBMITTED [illegible] RECOMMENDED [illegible] APPROVED [illegible]

17-F-6R2

SAN FRANCISCO, CAL.
DATE AUGUST 26, 1952