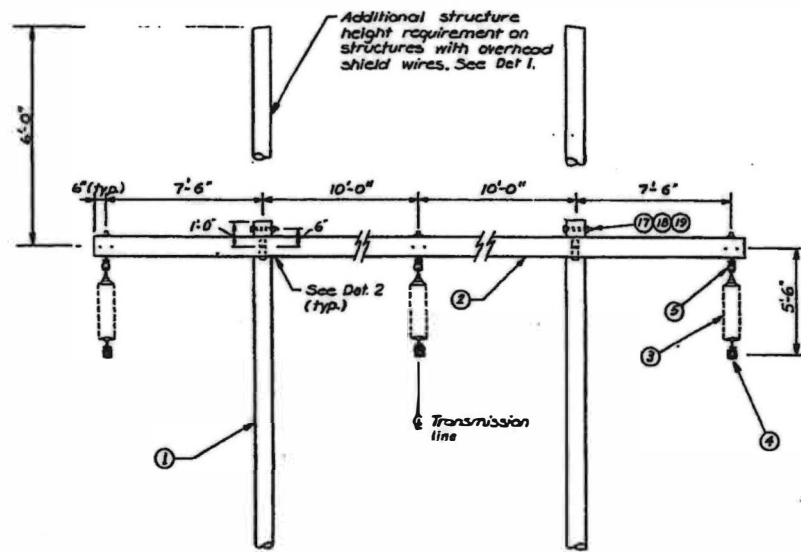
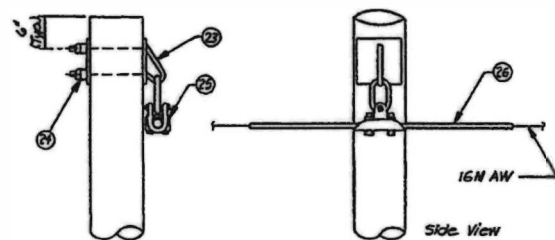
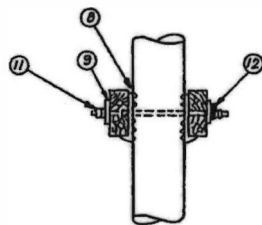




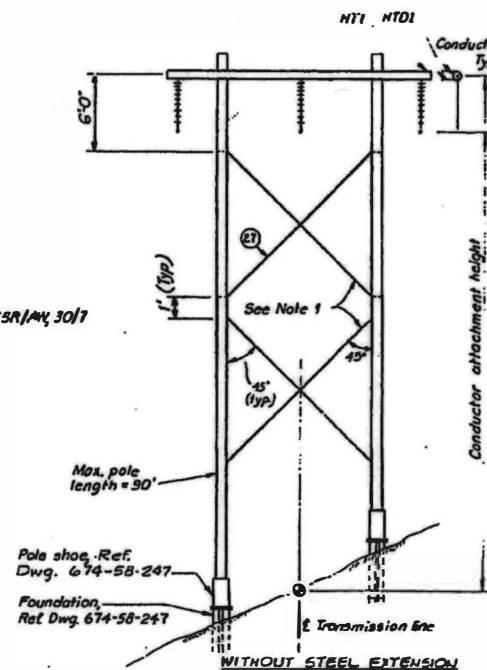
TANGENT STRUCTURE - TYPE HT1



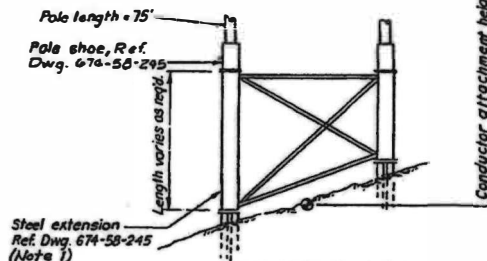
SHIELD WIRE ATTACHMENT
DETAIL 1



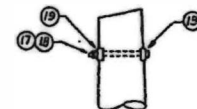
CROSS ARM ATTACHMENT
DETAIL 2



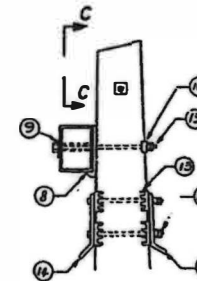
WITHOUT STEEL EXTENSION



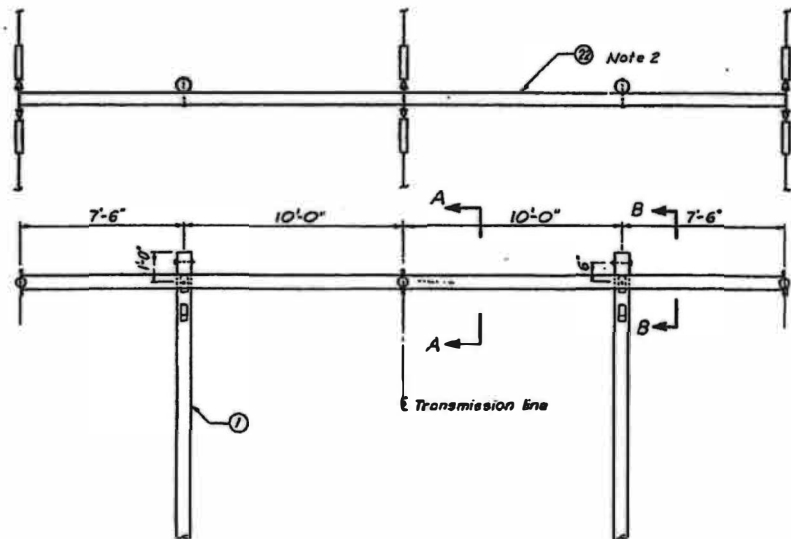
WITH STEEL EXTENSION
TYPICAL STRUCTURE
INSTALLATION



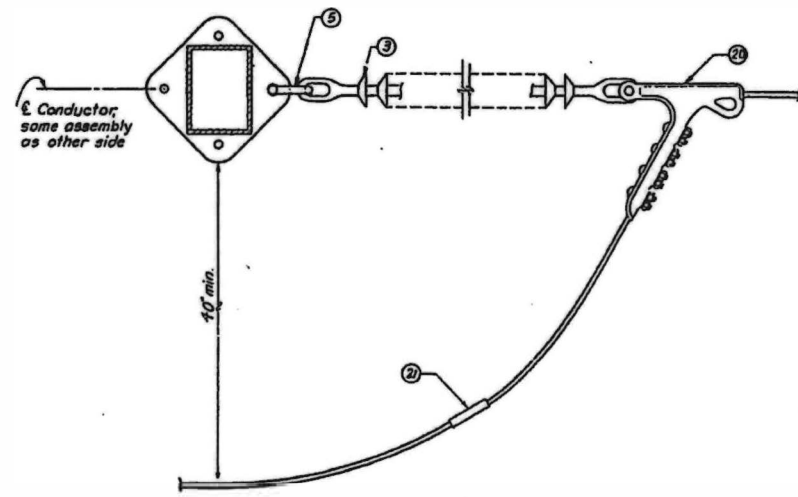
SECTION C-C



SECTION B-B
STEEL CROSS-ARM ATTACHMENT



TANGENT DEADEND STRUCTURE - TYPE HTD1



SECTION A-A

MATERIAL LIST				
ITEM	DESCRIPTION	MANUFACTURER & CAT. NO.	QUANTITY	
			HT1	HTD1
1	Pole, wood	Note 1	-	-
2	Crossarm, wood, 3-5/8" x 9-1/2" x 36"	---	-	-
3	Insulator, suspension, polyver	OB 232021-3002	3	6
4	Clamp, al. suspension	OB 6713A	3	-
5	Shackle, anchor	OB 70709	3	6
6	Metal spacer, adjustable	HB 3400.100	3	-
7	Lineguard for 336.4 kcmil, ACSR/MV, 30/7	PLP PG6148	3	-
8	Gain, crossarm	HIF PK187	4	2
9	Washer, flat (4" x 4"), 15/16" hole	---	4	2
10	Washer, curved (4" x 4"), 15/16" hole	---	-	2
11	Threaded rod w/ nuts 7/8" x req'd length	---	2	-
12	Washer, spring type, 15/16" hole	---	2	-
13	Gain, grid single curved (4" x 4")	HIF PK122	-	8
14	Guy plate, 15/16" holes	HB 2822.2A	-	4
15	Machine bolt with nut, 7/8" x req'd length	---	-	6
16	Locknut, NF type, 7/8" dia.	---	-	6
17	Machine bolt, with nut 1/2" x req'd length	---	2	2
18	Locknut, NF type, 1/2" dia.	---	2	2
19	Square washer, curved, 1/2" hole (4" x 4")	---	4	4
20	Clamp, al. strain	OB 06548	-	6
21	Anchor connector, compression	AL 5020.781	-	3
22	Crossarm, steel, 304	Note 2	-	1
27	X-brace, wood (including bolts, nuts, washers)	HB2050 (note 1)	-	-
ADDITIONAL MATERIALS REQUIRED ON STRUCTURES WITH SHIELD WIRE				
23	Shield wire support	J 6394	2	-
24	Locknut, NF type, 5/8" dia.	---	4	-
25	Clamp, al. suspension	OB 67114	2	-
26	Anchor rod for 16N AW	PLP AR2128	2	-

ABBREVIATIONS

- PLP - Preformed Line Products
- OB - Ohio Brass
- HB - Hughes Brothers
- HIF - Stanley G. Flogg
- J - Joslyn
- KX - Hendrix
- L - Lasp
- AL - Alcoa
- C - Chance
- B - Bundy
- RP - Rodbell Plastics Inc.
- K - Kearney

NOTES

- Wood poles, wood x-braces, pole shoes, and steel extensions are not included as part of framing materials and payment therefore shall be as specified in section 405 of the engineering specifications. Ref. Dwg. 674-58-200 and 674-58-201 for pole size requirements and x-brace quantities. Ref. Dwg. 674-58-243 for x-brace detail.
- Item No. 22 (crossarm, steel, 304) is a fabrication item. Ref. Dwg. 674-58-246.



PROJECT: Southeast Alaska Power Agency - Swan Lake 115kV Transmission Line			
DESIGNER/PROJECT ENGINEER: R.W. Beck and Associates			
JOB #			
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED BY/DATE
5			
4			
3			
2			
1	Changed to SEAPA border	PLH 11/20/20	
0	R49 - Conformed to Construction Records	EO 1/10/85	OKS 1/10/85



NO.	DRAWING NO./SHEET	REFERENCE DRAWING/DETAIL/PLAN/SECTION DESCRIPTION

Swan Lake Hydroelectric Project 115kV Transmission Line Structure Details; Type HT1, HTD1	
REF DWG/NO.	674-58-241.3
DRAWING NO.	H03-D-55-4007-R01
SHEET	OF