

NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING:
PIPE: ASTM A 252
STRIPS, PLATES, AND SHAPES: ASTM A 36
- PIPE CLAMP HARDWARE SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING:
DOUBLE ARMING BOLTS: ASTM A 449
MACHINE BOLTS: ASTM A 325
NUTS: ASTM A 563, GRADE DH
- ALL STEEL INCLUDING BOLTS AND NUTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A 123 OR A 153.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1.
- REMOVE EXISTING WOOD POLE AND EXISTING GROUT TO FLUSH WITH TOP OF EXISTING POLE SHOE.
- REMOVE ALL STEP BOLTS AND LAG SCREW HEADS FROM THE TOP 4'-9" OF THE EXISTING POLE SHOE AND GRIND FLUSH WITH SHOE FACE.
- PIPE CLAMP SHIMS SHALL BE WEDGED BETWEEN THE PIPE CLAMP AND THE EXISTING AND NEW POLE SHOES AS NECESSARY TO SECURE A TIGHT FIT. SHIMS MAY BE FIELD CUT AS REQUIRED.

MATERIAL LIST

ITEM	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	QUANTITY	
				HD3 HT1	HD4
1	PIPE BAND ASSEMBLY (2 MK3)			1	-
2	HIGH STRENGTH DOUBLE ARMING BOLT, 7/8" dia x 16", WTH (4) NUTS			6	4
3	TURNBUCKLE, JAW-JAW, 3/4" dia. x 6"	ANDERSON	TB-3/4-JJ-6	4	-
4	LINK	HUGHES BROTHERS	3154	12	-
5	CHAIN, 20 kip MINIMUM URS, 2'-10" LONG			2	-
6	ANCHOR SHACKLE	ANDERSON	AS-25	2	-
7	MACHINE BOLT, 1/2" dia. x 6", WTH NUT			20	20
8	LAG SCREW, 1" dia. x 10"			8	B
9	PIPE CLAMP ASSEMBLY (1 ea. MK1L & MK1R)			1	1
10	POLE SHOE, MK2			1	1
11	PIPE CLAMP SHIMS, MK4 AND/OR MK5			AS REQ'D	AS REQ'D

REMOVABLE POLE SHOE & PIPE CLAMP ASSEMBLY
(STRUCTURE TYPE HT1 SHOWN.)
(STRUCTURE TYPES HD3 & HD4 SIMILAR)

SECTION A-A

PIPE CLAMP ORIENTATION

DRYDEN & LARUE, INC.
CONSULTING
ENGINEERS
ANCHORAGE, ALASKA

ALASKA ENERGY AUTHORITY
SWAN LAKE INTERTIE

POLE SHOE & PIPE CLAMP ASSEMBLY

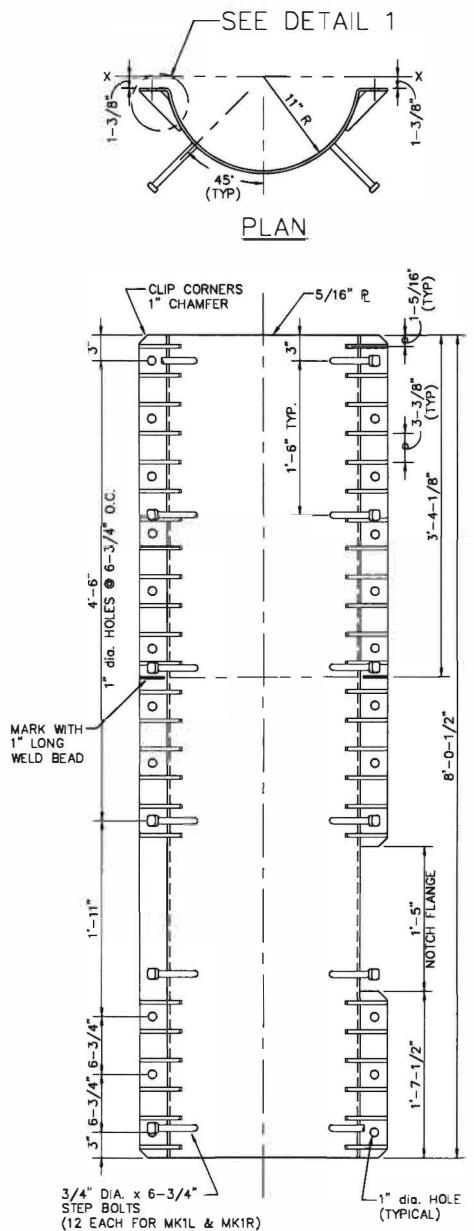
Xref STAMP-GDH

NO. DATE BY REVISION

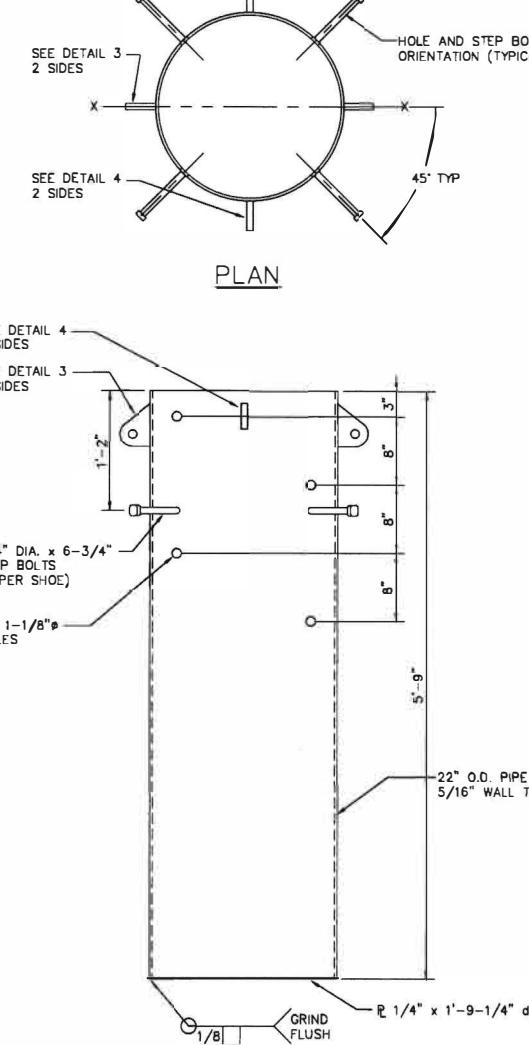
NO. DATE BY REVISION

DESIGNED BY: CDP
DRAWN BY: RAE
CHECKED BY: ABP

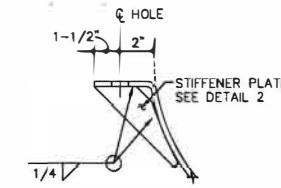
DRAWING NO.
SL-S1
1 of 2



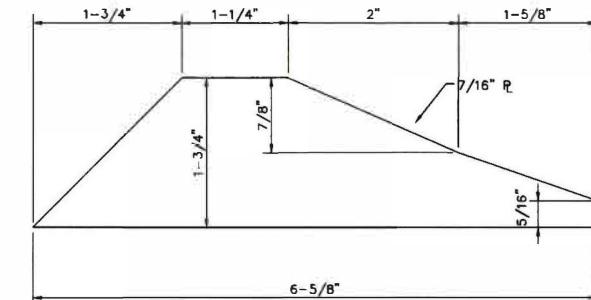
PIPE CLAMP - MK1L & MK1R
MK1L SHOWN, MK1R OPP. HAND



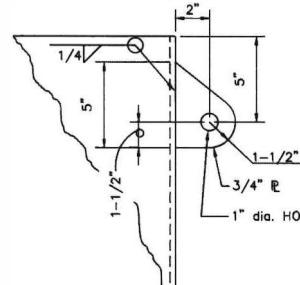
POLE SHOE - MK2



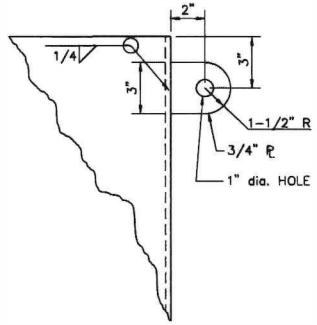
DETAIL



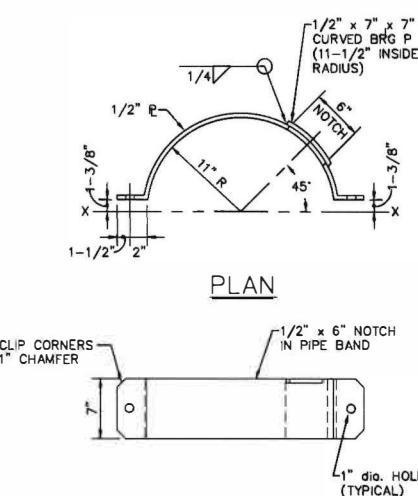
DETAIL 2
STIFFENER PLATE
48 REQD EACH FOR



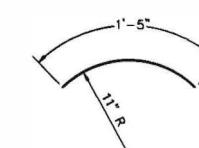
DETAIL 3
TIE-DOWN VANG



DETAIL 4
LIFTING VANC



PIPE BAND - MK3



PIPE CLAMP SHIMS - MK4 & MK5

10.1007/s00339-007-0332-2

ALASKA ENERGY AUTHORITY
SWAN LAKE INTERTIE
PIPE CLAMP ASSEMBLY

STMP-GDH

DRYDEN & LAURENCE, INC.
CONSULTING ENGINEERS
ANCHORAGE, ALASKA

DESIGNED BY: CDH
DRAWN BY: RAE
CHECKED BY: ABP
WING NO.
-S1
1 of 2