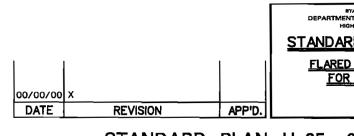


TYPICAL CROSS-SECTION

CIR	CIRCULAR PIPES					PIPE-ARCHES							
INCHES	DIMENSIONS-INCHES				INCHES		DIMENSIONS-INCHES						
NONES	A	В	Н	L	W		123	Α	В	Н	L	W	
PIPE DIA.	1±	MAX.	1±	11/2±	2±	SPAN	RISE	1±	MAX.	1±	1/2±	2*	
12	6	6	6	21	24	21	15	7	10	6	23	36	
15	7	8	6	28	30	24	18	8	12	6	28	42	
18	8	10	6	31	36	28	20	9	14	6	32	48	
21	9	12	6	36	42	35	24	10	16	8	39	60	
24	10	13	6	41	48	42	29	12	18	9	46	75	
30	12	16	8	51	60	49	33	13	21	12	53	85	
36	14	19	9	60	72	57	<u>3</u> 8	18	26	12	63	90	
42	16	22	11	69	84	64	43	18	30	12	70	102	
48	18	27	12	78	90	71	47	18	33	12	77	114	
54	18	30	12	84	102	77	52	18	36	12	77	126	
60	18	33	12	87	114	83	57	18	39	12	77	138	
66	18	36	12	87	120								
72	18	39	12	87	126								
78	18	42	12	87	132								
84	18	45	12	87	138								
FLARED END SECTIONS FOR C.A.P. CULVERT													

## <u>General Notes:</u>

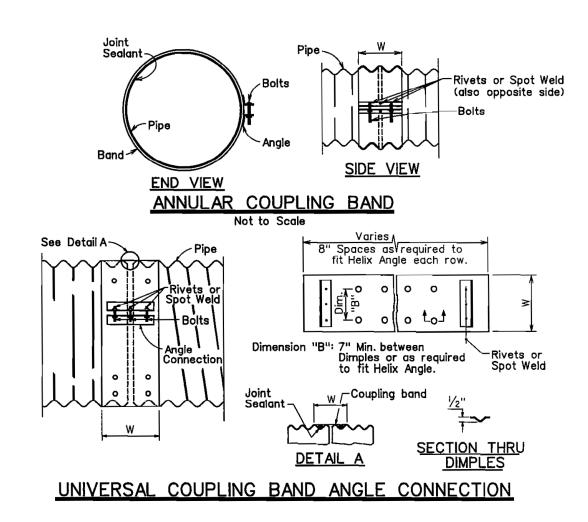
- All 3pc. bodies to have 0.105" thick sides and 0.135" thick center panels. Width of center panels to be greater than 20% of the pipe periphery. Multiple panel bodies to have lap seams which are to be tightly joint by 3%" stainless steel rivets or bolts.
- Reinforced edges to be supplemented with zinc coated stiffener angles for the 60" thru 84" round, 77"x52" and 83"x57" pipe-arch sizes. The angles will be 2"x2"x1/4" for the 60" thru 72" round, 77"x52" and 83"x57" pipe-arch sizes and 2/2"x2/2"x1/4" for 78" and 84" round. The angles to be attached by %" stainless steel nuts and bolts.
- 3. Angle reinforcement will be placed under the center panel seams on the 77"x52" and 83"x57" pipe-arch sizes.
- 4. Aluminum toe plate to be available as an accessory when specified.
- 5. End of pipe to be finished with annular corrugations to conform to flared end so that no leakage results from the connection. Other designs may be used with approval of the Engineer.
- 6. Corrugated Aluminum Pipe (CAP) culvert shall conform to AASHTO M196-92 (ASTM B745/B)



STANDARD PLAN H-25

.

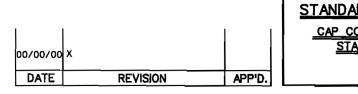
		STATE	PROJECT	NO.	SHEETS
		ні	HI A-AD 6(8)	G9	G19
			DY G. MCLAN		
		×		·\	
		/ /			
ETATE OF HAWAS ENT OF TRANSPORTATION IGHWAYS DIVISION		(★(	ENGINEER	*	
RD PLAN H-25		$\langle \langle \rangle$	No. 11328-C		
D END SECTION	1	\y		/	
R CULVERTS		ン	WAII, U.S.A.		
			K WAS PREPARED BY M ER MY SUPERVISION.	1E OR	
	Л И				
05/01/07	SIGN	ATURE		0/2016 ON DATE	
05/31/07	-44	JO	OF THE L		
			ENT OF TRANSPORTAT		———[
	FEC		HWAY ADMINISTRATION (CANDS HIGHWAY)	NC	
	U	.s. cus	TOMARY SPECIA	L	
	(H	IDOT	STD H-25	)	
	FLAF	RED	END SECTI	ON	
	F	OR (	CULVERTS		
NO SCALE				1	
				60	2-A



	CORRUGATION	PIPE SIZE W		PIPE WALL THICKNESS	ANGLE CONNECTIONS- QUANTITIES PER CONNECTION					
1176		0126			DIMENSIONS	BOLTS	RIVETS	SPOT WELD		
_	2 <del>%</del> X1/2				2-2x2x3/6x7		3-3/8	3-1/2		
					2-2x2x3/i∈x12			5-1/2		
UNIVERSAL		66-84	161/2	0.164-0.168	2-2x2x¾₅x12	3-1/2×6				
	3X1				2-2x2x3/6x7		3-3/8			
		78-120			2-2x2x3/6x12		4-3/8			
		12-36			2-2x2x1/6x7			<u>3-1/2</u>		
	2 <del>3</del> X1/2	42-72	12	0.075-0.138	2-2x2x3/6x12	3-1/2×6	4-3/8	5-1/2		
	-70 -72	78-84			2-2x2x3/6x12		4-3/8	5-1/2		
ANNULAR	3X1	36-42	14	0.075-0.109	2-2x2x16x12	$3 - \frac{1}{2} \times 6$	4-3/8			
		48-84	14	0.075-0.109	2-2x2x1/6x12	3-1/2×6	4-3/8	5-1/2		
		90-120	14	0.075-0.109	2-2x2x1/6x12	$3 - \frac{1}{2} \times 6$	4-3/8			

## <u>General Notes:</u>

- All coupling band connection hardware shall be stainless steel in accordance with Standard Specifications.
- 2. For pipe arches use same width band as for round pipe of same periphery.
- 3. Two pieces band required for pipe greater than 48" diameter.
- 4. Fillet welds of equivalent strengths may be substituted for spot welds or rivets.
- 5. Dimensions and thickness shown are in inches and are nominal.





		STATE	PROJECT	SHEET	
		ні	HI A-AD 6(8)	NO. G10	SHEETS G19
			NGA		
		EN	DY G. MCLAIL	<b>`</b>	
		1 1		$\backslash$	
STATE OF HAWAS DEPARTMENT OF TRANSPORTATION	7			★)	
TANDARD PLAN H-27		$\langle \langle \rangle$	No. 11328-C	/	
CAP COUPLING DETAILS		KA.	NU. 11320-0	/	
STANDARD JOINT			MAII, U.S.A.		
		UND	NVAS PREPARED BY M R MY SUPERVISION.	E OR	
		(la)	$\frac{1}{4/30}$	/2016	
-27 05/31/07	STAN.	Jee	OF THE LI		
]			ENT OF TRANSPORTAT		
F		FEDERA	L LANDS HIGHWAY		
			STD H-27		
		CAP (	COUPLING	,	
			ETAILS		
NO SCALE					
				60	2-В