



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Raymond Don Taztoo
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Raymond Don Taztoo
REGISTERED PROFESSIONAL ENGINEER
No. C37332
Exp. 6-30-08
STATE OF CALIFORNIA

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ANNULAR AND HELICAL PROFILE

COUPLING TYPE	PIPE CORRUGATION (mm)	PIPE SIZE (mm)	W OR A (mm)	PIPE WALL THICKNESS				BAR AND STRAP (CSP ONLY)			ANGLE							
				PIPE WALL THICKNESS		BAND THICKNESS		STRAP THICKNESS (mm)	BOLTS (mm ø)	BAR Dia (mm)	DIMENSIONS		BOLTS (No.-mm ø)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND	
				CSP (mm)	CAP (mm)	CSP (mm)	CAP (mm)				CSP (mm)	CAP (mm)	CSP	CAP	CSP	CAP	CSP	
TWO PIECE INTEGRAL FLANGE	38 x 6.5	150	178	1.63 - 4.27		1.32												
ANNULAR	38 x 6.5	200 - 250	178	1.63 - 4.27		1.52 - 4.17		1.63	1.52					3-10	3-10			
HUGGER	68 x 13 REROLLED END	THROUGH 600	305	1.63 - 4.27		1.52 - 4.17		1.63	1.52			51 x 51 x 4.8	51 x 51 x 4.8	3-13	3-13	3-9.5 mm	3-9.5 mm	3-15 mm
HUGGER	68 x 13 REROLLED END	THROUGH 600	267	1.63 - 4.27		1.63		2.01	13	22		51 x 51 x 4.8	51 x 51 x 4.8	3-13	3-13	3-9.5 mm	3-9.5 mm	3-15 mm

SPIRAL RIB PROFILE

COUPLING TYPE	PIPE CORRUGATION (mm)	PIPE SIZE (mm)	W (mm)	PIPE WALL THICKNESS				BAR AND STRAP (SSRP ONLY)			ANGLE									
				PIPE WALL THICKNESS		BAND THICKNESS		STRAP THICKNESS (mm)	BOLTS (mm ø)	BAR Dia (mm)	DIMENSIONS		BOLTS (No.-mm ø)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND			
				SSRP (mm)	ASRP (mm)	SSRP (mm)	ASRP (mm)							SSRP (mm)	ASRP (mm)	SSRP	ASRP	SSRP	ASRP	SSRP
ANNULAR	68 x 13 * REROLLED END	600	305	1.63 - 4.27		1.52 - 4.17		1.63	1.52					51 x 51 x 4.8	51 x 51 x 4.8	3-13	3-13	3-9.5 mm	3-9.5 mm	3-15 mm
HUGGER	68 x 13 * REROLLED END	600	267	1.63 - 4.27		1.63		2.01	13	22										

* See Note 12.

NOTES

- All ferrous metal coupling band connection hardware shall be galvanized or electroplated in accordance with the Standard Specifications.
- For helically corrugated coupling bands, the connection angles may be oriented parallel to the pipe axis, provided connecting holes are slotted lengthwise sufficiently to allow adjustment for the helix angle.
- Tension straps may be connected to band with either spot welds or fillet welds that develop minimum required strength of strap.
- Use 32 mm gage line dimension on attached angle leg for rivets and spot welds.
- Band thickness shall not be less than:
 - 3 standard thickness lighter than the thickness of the pipe for corrugated steel pipe.
 - 2 standard thickness lighter than the thickness of the pipe and in no case lighter than 1.5 mm for corrugated aluminum pipe.
- Dimensions, thickness and strengths shown are minimum.
- For pipe arches use same width band as for round pipe of equal periphery.
- Fillet welds of equivalent strength may be substituted for spot welds or rivets.
- Spot welds shall develop minimum required strength of strap.
- Pipe with rerolled ends having at least two 68 mm x 13 mm annular corrugations at each end with or without an upturned flange may be connected with any of the annular coupling bands shown for pipe of the same diameter and wall thickness and having 68 mm x 13 mm corrugations.
- For downdrain applications, two piece integral flange couplers shall have factory applied sleeve type rubber gaskets with a minimum length of 175 mm measured along the length of the pipe.
- All profiles of Spiral Rib Pipe (19 mm x 19 mm ribs at 191mm pitch and 19 mm x 25 mm ribs at 292 mm pitch in both steel and aluminum and 19 mm x 25 mm ribs at 216 mm pitch in steel only) shall be manufactured with rerolled ends. Corrugation profile of the rerolled ends shall be 68 mm x 13 mm annual corrugations with a minimum of two full corrugations at each end.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CORRUGATED METAL PIPE
COUPLING DETAILS No. 7
DOWNDRAIN**

NO SCALE
ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

RSP D97G DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D97G
DATED July 1, 2004 - PAGE 189 OF THE STANDARD PLANS BOOK DATED July 2004.

REVISED STANDARD PLAN RSP D97G

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