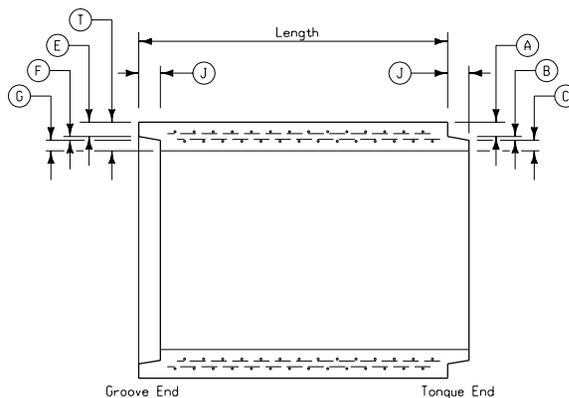


SINGLE LINE REINFORCEMENT



DOUBLE LINE REINFORCEMENT

GENERAL NOTES:

Details on this sheet indicate typical requirements for concrete arch pipe. Reinforced concrete arch pipe shall conform to the requirements of AASHTO M 206 for Reinforced Concrete Arch Culvert Storm Drain and Sewer Pipe. Reinforcement of the pipe shall be as indicated in AASHTO M 206 or as otherwise approved by the Engineer.

Materials and methods of construction shall be in accordance with current Standard and Supplemental Specifications.

This pipe shall be in accordance with "Rigid Pipe Culverts" in the current Standard and Supplemental Specifications.

Welded wire fabric shall meet the requirements of ASTM A 185.

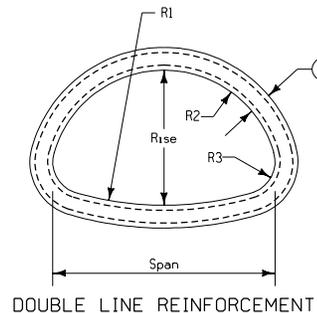
Tie bolts and bolt holes are necessary only when specifically required in detail project plans.

Price bid for "Concrete Arch Roadway Pipe Culvert" of the size specified shall be considered full compensation for fabrication and installation of concrete arch pipes as detailed herein.

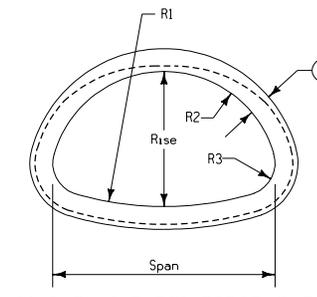
SPECIAL NOTES:

The minimum allowable cover for roadway culverts is 2'-0". The maximum allowable cover for all sizes and installations of Concrete Arch Roadway Pipe Culvert is 12'-0".

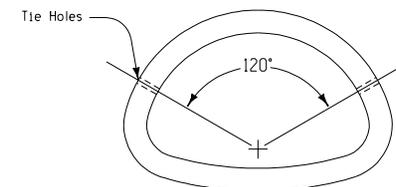
TABLE OF DIMENSIONS														Radii			Approx. Wt./Ft.
Nominal Dimensions Span X Rise	Equiv. Dia.	Water Area	Span	Rise	Approximate Dimensions								Inches				
					T	A	B	C	J	E	F	G	R ₁	R ₂	R ₃		
22 X 14	18	1.7	22	13½	2½	1¾	¾	¾	2	1½	¾	1	27½	13¾	5¼	175	
29 X 18	24	2.8	28½	18	3	1⅝	¾	1	2¾	1¾	¾	1¼	40⅞	14¾	4⅞	320	
37 X 23	30	4.4	36¼	22½	3½	1⅝	½	1¾	3	1¾	½	1⅝	51	18¾	6⅝	455	
44 X 27	36	6.4	43¾	26⅝	4	1⅞	⅝	1⅞	3½	1⅞	⅝	2⅞	62	22½	6⅞	610	
52 X 32	42	8.8	51⅞	31⅝	4½	2	¾	1¾	4	1¾	¾	2	73	26¼	7⅞	740	
59 X 36	48	11.4	58½	36	5	2¼	¾	2	5	2	¾	2¼	84	30	8¾	895	
65 X 40	54	14.3	65	40	5½	2½	¾	2¼	5	2¼	¾	2½	92½	33⅞	9⅞	1095	
73 X 45	60	17.7	73	45	6	3⅞	¾	1⅞	5	2¾	¾	2½	105	37½	11⅞	1345	
88 X 54	72	25.6	88	54	7	3⅞	1	2⅞	6	3¼	1	2¾	126	45	12⅞	1885	
102 X 62	84	34.6	102	62	8	4⅞	1	2⅞	6	3½	1	3½	162½	52	13⅞	2490	
115 X 72	90	44.5	115	72	8½	4¼	1	3¼	7	3¼	1	3¼	183	59	19⅞	2900	
122 X 78	96	51.7	122	77¼	9	4½	1	3½	7	4	1	4	218	62	20⅞	3510	
138 X 88	108	66.0	138	87⅞	10	5	1	4	7	4½	1	4½	269	70	22⅞	4400	
154 X 97	120	81.8	154	96⅞	11	5½	1	4½	7	5	1	5	301⅞	78	24	5400	
169 X 107	132	99.1	168¾	106½	10	5	1	4	7	4½	1	4½	329	85⅞	26⅞	5390	



DOUBLE LINE REINFORCEMENT



SINGLE LINE REINFORCEMENT



TIE HOLE LOCATION

Iowa Department of Transportation
Project Development Division

STANDARD ROAD PLAN | **RF-41**

REVISION: Add "T" dimension to drawing. | REVISION NO. 2

David P. Keith | 07-31-95 | REVISION DATE 10-31-95

APPROVED BY DESIGN METHODS ENGINEER

REINFORCED CONCRETE ARCH PIPE