APPENDIX C

PIPES

PIPE DIA. (IN)	PIPE TYPE	CIRCULAR PIPE COVER HEIGHTS IN FEET (3)												
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
27 & 30 (8)	2⅔" x ½" CSPHS (1)	16 GA.								14 GA.			12 GA.	
	2⅔" x ½" CSPLS (1)	16 GA.				12 GA.								
	2⅔" x ½" CAPHS	14 GA.								12 GA.			10 GA.	
	SRS (1)	16 GA.						14 GA.		12 GA.				
	SRA	16 GA.			14 GA.		12 GA.		10 GA.					
	RCP (11)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D	
	PVC (10)	RIBBED (PROFILE WALL)												
	HDPE (10)					FF								
36	2⅔" x ½" CSPHS (1)	14 GA.									12 GA.			10 GA.
	2⅔" x ½" CSPLS (1)	14 GA.			12 GA.		10 GA.							
	2⅔" x ½" CAPHS	14 GA.						12 GA.			10 GA.			8 GA.
	SRS (1)	14 GA.							12 GA.					
	SRA	14 GA.				12 GA.		10 GA.						
	RCP (11)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D	
	PVC (10)	RIBBED (PROFILE WALL)												
	HDPE (10)					FF								
42	2⅔" x ½" CSPHS (1)	14 GA.								12 GA.			10 GA.	
	2⅔" x ½" CSPLS (1)	14 GA.					12 GA.		10 GA.					
	2⅔" x ½" CAPHS	12 GA.								10 GA.		8 GA.		
	SRS (1)	14 GA.						12 GA.						
	SRA	12 GA.					10 GA.							
	RCP (11)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D	
	PVC (10)	RIBBED (PROFILE WALL)												
	HDPE (10)													
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65

LEGEND

CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)

CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)

CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)

RCP: CIRCULAR REINFORCED CONCRETE PIPE

HDPE: HIGH DENSITY POLYETHYLENE PIPE

PVC: POLYVINYL CHLORIDE

SRS: SPIRAL RIB STEEL

SRA: SPIRAL RIB ALUMINUM

FF: FLOWABLE FILL REQUIRED

NOTES CONTINUED

(11) RCP D-LOAD DESIGNATIONS (THE INSTALLED LOAD CARRYING CAPACITY OF THE PIPE DIVIDED BY THE INSIDE PIPE DIAMETER IN FEET) AS PER ASTM C 655 AND AASHTO M 242.

NOTES

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.

(3) SEE CURRENT STANDARD DRAWING RDI-001 FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET.

4. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.

5. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.

6. MINIMUM COVER HEIGHT FOR ENTRANCE PIPE SHALL BE 0.5 FEET.

7. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.

(8) ENTRANCE PIPE GREATER THAN 30" DIA. SHALL BE CULVERT PIPE.

9. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

(10) PVC AND HDPE PIPE ARE NOT PERMITTED ON THE NATIONAL HIGHWAY SYSTEM OR FOR STORM SEWER INSTALLATIONS.

27" PIPE - 42" PIPE

PIPE DIA. (IN)	PIPE TYPE	CIRCULAR PIPE COVER HEIGHTS IN FEET					
		2-5	5-10	10-15	15-20	20-25	25-30
12 & 15	2⅔"×½" CSPHS (1)	16 GA.					
	2⅔"×½" CSPLS (1)	16 GA.					
	2⅔"×½" CAPHS	16 GA.					
	RCP	CLASS III			CLASS IV		CL V
	PVC (11)	SMOOTH WALL (SOLID WALL)					
	HDPE (11)					FF	
18	2⅔"×½" CSPHS (1)	16 GA.					
	2⅔"×½" CSPLS (1)	16 GA.					
	2⅔"×½" CAPHS	16 GA.					
	SRS (1)	16 GA.					
	SRA	16 GA.					
	RCP	CLASS III			CLASS IV		CL V
	PVC (11)	RIBBED (PROFILE WALL)					
	HDPE (11)					FF	
		2-5	5-10	10-15	15-20	20-25	25-30

PIPE DIA. (IN)	PIPE TYPE	CIRCULAR PIPE COVER HEIGHTS IN FEET												
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
21	2⅔"×½" CSPHS (1)	16 GA.												
	2⅔"×½" CSPLS (1)	16 GA.					10 GA.							
	2⅔"×½" CAPHS	16 GA.												
	SRS (1)	16 GA.												
	SRA	16 GA.				14 GA.								
	RCP	CLASS III			CLASS IV		CL V							
	PVC (11)	RIBBED (PROFILE WALL)												
	HDPE (11)					FF								
24 (6)	2⅔"×½" CSPHS (1)	16 GA.											14 GA.	
	2⅔"×½" CSPLS (1)	16 GA.					10 GA.							
	2⅔"×½" CAPHS	16 GA.							14 GA.		12 GA.			
	SRS (1)	16 GA.						14 GA.			12 GA.			
	SRA	16 GA.				14 GA.		12 GA.			10 GA.			
	RCP (12)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D	
	PVC (11)	RIBBED (PROFILE WALL)												
	HDPE (11)					FF								
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65

NOTES

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.
3. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.
4. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.
5. MINIMUM COVER HEIGHTS FOR PIPE SHALL BE 2 FEET. CLASS OR GAGE OF PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL BE THAT SHOWN FOR COVER HEIGHTS OF 30 FEET (SEE STD. SPECIFICATIONS FOR BACKFILL). HDPE AND PVC SHALL NOT BE PERMITTED FOR COVER HEIGHTS LESS THAN 2 FEET.

(6) 24" DIA. PIPE IS MINIMUM SIZE FOR COVER HEIGHTS FROM 30 FEET TO 65 FEET.

7. MINIMUM COVER HEIGHT FOR ENTRANCE PIPE SHALL BE 0.5 FEET.
8. CLASS OR GAGE OF ENTRANCE PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL MEET THE FOLLOWING REQUIREMENTS:
   a. GAGE OF CSP SHALL BE THAT SHOWN FOR HEIGHTS OF 30 FEET.
   b. GAGE OF CAP SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLE.
   c. CLASS OF RCP SHALL BE THAT SHOWN FOR HEIGHTS OF 10 FEET - 15 FEET.
9. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.
10. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

(11) PVC AND HDPE PIPE ARE NOT PERMITTED ON THE NATIONAL HIGHWAY SYSTEM OR FOR STORM SEWER INSTALLATIONS.

(12) RCP D-LOAD DESIGNATIONS (THE INSTALLED LOAD CARRYING CAPACITY OF THE PIPE DIVIDED BY THE INSIDE PIPE DIAMETER IN FEET) AS PER ASTM C 655 AND AASHTO M 242.

LEGEND

CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)

CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)

CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)

RCP: CIRCULAR REINFORCED CONCRETE PIPE

HDPE: HIGH DENSITY POLYETHYLENE PIPE

PVC: POLYVINYL CHLORIDE

SRS: SPIRAL RIB STEEL

SRA: SPIRAL RIB ALUMINUM

FF: FLOWABLE FILL REQUIRED

12" PIPE - 24" PIPE

CIRCULAR PIPE COVER HEIGHTS IN FEET (3)

PIPE DIA. (IN)	PIPE TYPE	2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120
48	2⅔"x½" CSPHS (1)	14 GA.							12 GA.		10 GA.														
	2⅔"x½" CSPLS (1)	14 GA.				12 GA.																			
	2⅔"x½" CAPHS	12 GA.							10 GA.		8 GA.														
	SRS (1)	14 GA.					12 GA.																		
	SRA	12 GA.					10 GA.																		
	RCP (10)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D												
	PVC (9)	RIBBED (PROFILE WALL)																							
	HDPE (9)																								
54 (7)	2⅔"x½" CSPHS (1)	14 GA.						12 GA.			10 GA.														
	2⅔"x½" CSPLS (1)	14 GA.				12 GA.																			
	3"x1" CSPHS (1)	14 GA.							12 GA.		10 GA.														
	3"x1" CSPLS (1)	14 GA.			12 GA.			10 GA.			8 GA.														
	5"x1" CSPHS (1)	14 GA.						12 GA.			10 GA.														
	2⅔"x½" CAPHS	12 GA.					10 GA.				8 GA.														
	3"x1" CAPHS	14 GA.					12 GA.		10 GA.		8 GA.														
	SRS (1)	14 GA.				12 GA.																			
	SRA	12 GA.				10 GA.																			
	RCP (10)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120

NOTES

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.

(3) SEE CURRENT STANDARD DRAWING RDI-001 FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET.

4. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.

5. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.

6. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.

(7) 54" DIA. PIPE IS MINIMUM SIZE FOR COVER HEIGHTS GREATER THAN 65 FEET.

8. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

(9) PVC AND HDPE PIPE ARE NOT PERMITTED ON THE NATIONAL HIGHWAY SYSTEM OR FOR STORM SEWER INSTALLATIONS.

(10) RCP D-LOAD DESIGNATIONS (THE INSTALLED LOAD CARRYING CAPACITY OF THE PIPE DIVIDED BY THE INSIDE PIPE DIAMETER IN FEET) AS PER ASTM C 655 AND AASHTO M 242.

LEGEND

CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)

CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)

CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)

RCP: CIRCULAR REINFORCED CONCRETE PIPE

HDPE: HIGH DENSITY POLYETHYLENE PIPE

PVC: POLYVINYL CHLORIDE

SRS: SPIRAL RIB STEEL

SRA: SPIRAL RIB ALUMINUM

48" PIPE - 54" PIPE

CIRCULAR PIPE COVER HEIGHTS IN FEET (4)

PIPE DIA. (IN)	PIPE TYPE	2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120
60	2⅔"x½" CSPHS (1)	12 GA.							10 GA.																
	2⅔"x½" CSPLS (1)	12 GA.																							
	3"x1" CSPHS (1)	14 GA.						12 GA.			10 GA.														
	3"x1" CSPLS (1)	14 GA.				12 GA.			10 GA.																
	5"x1" CSPHS (1)	14 GA.					12 GA.				10 GA.														
	6"x2" CSPLSSB (1)	10 GA.							8 GA.			7 GA.			5 GA.		3 GA.				1 GA.				
	2⅔"x½" CAPHS	10 GA.						8 GA.																	
	3"x1" CAPHS	14 GA.				12 GA.		10 GA.			8 GA.														
	9"x2½" CAPLSSB	10 GA.							8 GA.	7 GA.		5 GA.		3 GA.			1 GA.								
	SRS (1)	12 GA.																							
	SRA	10 GA.																							
	RCP (9)	CLASS III			CLASS IV			CLASS V			3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
66	2⅔"x½" CSPHS (1)	10 GA.																							
	2⅔"x½" CSPLS (1)	10 GA.																							
	3"x1" CSPHS (1)	14 GA.					12 GA.			10 GA.															
	3"x1" CSPLS (1)	14 GA.				12 GA.		10 GA.																	
	5"x1" CSPHS (1)	14 GA.					12 GA.		10 GA.																
	6"x2" CSPLSSB (1)	10 GA.						8 GA.			7 GA.			5 GA.		3 GA.				1 GA.					
	2⅔"x½" CAPHS	8 GA.																							
	3"x1" CAPHS	14 GA.				12 GA.		10 GA.			8 GA.														
	9"x2½" CAPLSSB	10 GA.						8 GA.		7 GA.		5 GA.	3 GA.			1 GA.									
	SRS (1)	12 GA.																							
	SRA	10 GA.																							
	RCP (9)	CLASS III			CLASS IV			CLASS V			3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120

NOTES

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.

3. CONTRARY TO NOTE 2, GAGES FOR 6"X2" CSPLSSB ARE SHOWN FOR ZINC COATED (GALVANIZED).

(4) SEE CURRENT STANDARD DRAWING RDI-001 FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET.

5. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.

6. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.

7. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.

8. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

(9) RCP D-LOAD DESIGNATIONS (THE INSTALLED LOAD CARRYING CAPACITY OF THE PIPE DIVIDED BY THE INSIDE PIPE DIAMETER IN FEET) AS PER ASTM C 655 AND AASHTO M 242.

LEGEND

CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)

CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)

CSPLSSB: CORRUGATED STEEL PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.)

CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)

CAPLSSB: CORRUGATED ALUMINUM ALLOY PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.)

RCP: CIRCULAR REINFORCED CONCRETE PIPE

SRS: SPIRAL RIB STEEL

SRA: SPIRAL RIB ALUMINUM

60" PIPE - 66" PIPE

PIPE DIA. (IN)	PIPE TYPE	CIRCULAR PIPE COVER HEIGHTS IN FEET (4)																						
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120
72	2⅔"x½" CSPHS (1)	10 GA.																							
	2⅔"x½" CSPLS (1)	10 GA.																							
	3"x1" CSPHS (1)	14 GA.					12 GA.		10 GA.																
	3"x1" CSPLS (1)	14 GA.			12 GA.			10 GA.																	
	5"x1" CSPHS (1)	14 GA.				12 GA.			10 GA.																
	6"x2" CSPLSSB (1)	10 GA.						8 GA.			7 GA.		5 GA.		3 GA.		1 GA.								
	2⅔"x½" CAPHS	8 GA.																							
	3"x1" CAPHS	14 GA.				12 GA.	10 GA.		8 GA.																
	9"x2½" CAPLSSB	10 GA.						8 GA.		7 GA.	5 GA.	3 GA.		1 GA.											
	SRS (1)	12 GA.																							
	RCP (9)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
78	3"x1" CSPHS (1)	12 GA.							10 GA.																
	3"x1" CSPLS (1)	12 GA.					10 GA.																		
	5"x1" CSPHS (1)	12 GA.						10 GA.																	
	6"x2" CSPLSSB (1)	10 GA.					8 GA.			7 GA.		5 GA.		3 GA.			1 GA.								
	3"x1" CAPHS	12 GA.					10 GA.		8 GA.																
	9"x2½" CAPLSSB	10 GA.					8 GA.		7 GA.	5 GA.	3 GA.			1 GA.											
	SRS (1)	12 GA.																							
	RCP (9)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120

NOTES

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.

3. CONTRARY TO NOTE 2, GAGES FOR 6"X2" CSPLSSB ARE SHOWN FOR ZINC COATED (GALVANIZED).

(4) SEE CURRENT STANDARD DRAWING RDI-001 FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET.

5. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.

6. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.

7. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.

8. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

(9) RCP D-LOAD DESIGNATIONS (THE INSTALLED LOAD CARRYING CAPACITY OF THE PIPE DIVIDED BY THE INSIDE PIPE DIAMETER IN FEET) AS PER ASTM C 655 AND AASHTO M 242.

LEGEND

CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)

CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)

CSPLSSB: CORRUGATED STEEL PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.)

CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)

CAPLSSB: CORRUGATED ALUMINUM ALLOY PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.)

RCP: CIRCULAR REINFORCED CONCRETE PIPE

SRS: SPIRAL RIB STEEL

72" PIPE - 78" PIPE

CIRCULAR PIPE COVER HEIGHTS IN FEET (4)

PIPE DIA. (IN)	PIPE TYPE	2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120
84	3"x1" CSPHS (1)	12 GA.						10 GA.																	
	3"x1" CSPLS (1)	12 GA.				10 GA.																			
	5"x1" CSPHS (1)	12 GA.					10 GA.																		
	6"x2" CSPLSSB (1)	10 GA.					8 GA.		7 GA.			5 GA.	3 GA.		1 GA.										
	3"x1" CAPHS	12 GA.				10 GA.		8 GA.																	
	9"x2½" CAPLSSB	10 GA.					8 GA.	7 GA.		5 GA.	3 GA.	1 GA.													
	RCP (9)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
90	3"x1" CSPHS (1)	12 GA.						10 GA.																	
	3"x1" CSPLS (1)	12 GA.				10 GA.																			
	5"x1" CSPHS (1)	12 GA.					10 GA.																		
	6"x2" CSPLSSB (1)	10 GA.					8 GA.		7 GA.		5 GA.	3 GA.			1 GA.										
	3"x1" CAPHS	12 GA.				10 GA.		8 GA.																	
	9"x2½" CAPLSSB	10 GA.					8 GA.	7 GA.	5 GA.	3 GA.	1 GA.														
	RCP (9)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
96	3"x1" CSPHS (1)	12 GA.					10 GA.																		
	3"x1" CSPLS (1)	12 GA.																							
	5"x1" CSPHS (1)	12 GA.					10 GA.																		
	6"x2" CSPLSSB (1)	10 GA.				8 GA.		7 GA.		5 GA.		3 GA.			1 GA.										
	3"x1" CAPHS	12 GA.				10 GA.		8 GA.																	
	9"x2½" CAPLSSB	10 GA.				8 GA.		7 GA.	5 GA.	3 GA.	1 GA.														
	RCP (9)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120

NOTES

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.

3. CONTRARY TO NOTE 2, GAGES FOR 6"X2" CSPLSSB ARE SHOWN FOR ZINC COATED (GALVANIZED).

(4) SEE CURRENT STANDARD DRAWING RDI-001 FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET.

5. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.

6. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.

7. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.

8. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

(9) RCP D-LOAD DESIGNATIONS (THE INSTALLED LOAD CARRYING CAPACITY OF THE PIPE DIVIDED BY THE INSIDE PIPE DIAMETER IN FEET) AS PER ASTM C 655 AND AASHTO M 242.

LEGEND

CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)

CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)

CSPLSSB: CORRUGATED STEEL PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.' 84" PIPE - 96" PIPE

CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)

CAPLSSB: CORRUGATED ALUMINUM ALLOY PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.)

RCP: CIRCULAR REINFORCED CONCRETE PIPE

CIRCULAR PIPE COVER HEIGHTS IN FEET (4)

PIPE DIA. (IN)	PIPE TYPE	2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120
102	3"x1" CSPHS (1)	12 GA.					10 GA.																		
	3"x1" CSPLS (1)	12 GA.			10 GA.																				
	5"x1" CSPHS (1)	12 GA.				10 GA.																			
	6"x2" CSPLSSB (1)	10 GA.				8 GA.		7 GA.		5 GA.	3 GA.		1 GA.												
	3"x1" CAPHS	10 GA.				8 GA.																			
	9"x2½" CAPLSSB	10 GA.				8 GA.	7 GA.	5 GA.	3 GA.		1 GA.														
	RCP (9)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
108	3"x1" CSPHS (1)	12 GA.					10 GA.																		
	3"x1" CSPLS (1)	12 GA.			10 GA.																				
	5"x1" CSPHS (1)	12 GA.				10 GA.																			
	6"x2" CSPLSSB (1)	10 GA.				8 GA.		7 GA.		5 GA.	3 GA.		1 GA.												
	3"x1" CAPHS	10 GA.				8 GA.																			
	9"x2½" CAPLSSB	10 GA.				8 GA.	7 GA.	5 GA.	3 GA.		1 GA.														
	RCP (9)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
114	3"x1" CSPHS (1)	10 GA.																							
	3"x1" CSPLS (1)	10 GA.																							
	5"x1" CSPHS (1)	10 GA.																							
	6"x2" CSPLSSB (1)	10 GA.				8 GA.		7 GA.		5 GA.	3 GA.		1 GA.												
	3"x1" CAPHS	8 GA.																							
	9"x2½" CAPLSSB	10 GA.			8 GA.		7 GA.	3 GA.		1 GA.															
	RCP (9)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120

NOTES

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.
3. CONTRARY TO NOTE 2, GAGES FOR 6"X2" CSPLSSB ARE SHOWN FOR ZINC COATED (GALVANIZED).

(4) SEE CURRENT STANDARD DRAWING RDI-001 FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET.

5. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.
6. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.
7. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.
8. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

(9) RCP D-LOAD DESIGNATIONS (THE INSTALLED LOAD CARRYING CAPACITY OF THE PIPE DIVIDED BY THE INSIDE PIPE DIAMETER IN FEET) AS PER ASTM C 655 AND AASHTO M 242.

LEGEND

CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)

CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)

CSPLSSB: CORRUGATED STEEL PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.)

CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)

CAPLSSB: CORRUGATED ALUMINUM ALLOY PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.)

RCP: CIRCULAR REINFORCED CONCRETE PIPE

102" PIPE - 114" PIPE

PIPE DIA. (IN)	PIPE TYPE	CIRCULAR PIPE COVER HEIGHTS IN FEET (4)																							
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120
120	3"x1" CSPHS (1)	10 GA.																							
	3"x1" CSPLS (1)	10 GA.																							
	5"x1" CSPHS (1)	10 GA.																							
	6"x2" CSPLSSB (1)	10 GA.			8 GA.		7 GA.		5 GA.	3 GA.	1 GA.														
	3"x1" CAPHS	8 GA.																							
	9"x2½" CAPLSSB	10 GA.			8 GA.	7 GA.	5 GA.	3 GA.	1 GA.																
	RCP (9)	CLASS III			CLASS IV		CLASS V				3750 D		4475 D		5200 D		5950 D		6700 D		7050 D		8200 D		8550D
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115	115-120

NOTES

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.
3. CONTRARY TO NOTE 2, GAGES FOR 6"X2" CSPLSSB ARE SHOWN FOR ZINC COATED (GALVANIZED).

(4) SEE CURRENT STANDARD DRAWING RDI-001 FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET.

5. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.
6. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.
7. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.
8. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

(9) RCP D-LOAD DESIGNATIONS (THE INSTALLED LOAD CARRYING CAPACITY OF THE PIPE DIVIDED BY THE INSIDE PIPE DIAMETER IN FEET) AS PER ASTM C 655 AND AASHTO M 242.

LEGEND

CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)

CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)

CSPLSSB: CORRUGATED STEEL PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.)

CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)

CAPLSSB: CORRUGATED ALUMINUM ALLOY PIPE WITH LONGITUDINAL SEAMS WITH STEEL BOLTS (ANNULAR CORR.)

RCP: CIRCULAR REINFORCED CONCRETE PIPE

120" PIPE

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET					
		2 - 5	6	7	8	9	10
15	2⅔"×½" CSPA (1)	16 GA.					
	2⅔"×½" CAPA	16 GA.					
	RCPA	CLASS A-III					
18	2⅔"×½" CSPA (1)	16 GA.					
	2⅔"×½" CAPA	16 GA.					
	SRSA (1)	16 GA.					
	SRAA	16 GA.					
	RCHEP	CLASS HE-III					
	RCPA	CLASS A-III					
21	2⅔"×½" CSPA (1)	16 GA.					
	2⅔"×½" CAPA	16 GA.					
	SRSA (1)	16 GA.					
	SRAA	16 GA.					
	RCPA	CLASS A-III					
24	2⅔"×½" CSPA (1)	16 GA.					
	2⅔"×½" CAPA	14 GA.					
	SRSA (1)	16 GA.					
	SRAA	14 GA.					
	RCHEP	CLASS HE-III					
	RCPA	CLASS A-III					
		2 - 5	6	7	8	9	10

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET					
		2 - 5	6	7	8	9	10
30 (9)	2⅔"×½" CSPA (1)	16 GA.					
	2⅔"×½" CAPA	14 GA.					
	SRSA (1)	16 GA.					
	SRAA	14 GA.					
	RCHEP	CLASS HE-III					
	RCPA	CLASS A-III					
36	2⅔"×½" CSPA (1)	14 GA.					
	2⅔"×½" CAPA	12 GA.					
	SRSA (1)	14 GA.					
	SRAA	12 GA.					
	RCHEP	CLASS HE-III					
	RCVEP	CLASS VE-III					
	RCPA	CLASS A-III					
42	2⅔"×½" CSPA (1)	14 GA.					
	2⅔"×½" CAPA	12 GA.					
	SRSA (1)	14 GA.					
	SRAA	12 GA.					
	RCHEP	CLASS HE-III					
	RCVEP	CLASS VE-III					
	RCPA	CLASS A-III					
		2 - 5	6	7	8	9	10

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET					
		2 - 5	6	7	8	9	10
48	2⅔"×½" CSPA (1)	12 GA.					
	2⅔"×½" CAPA	10 GA.					
	SRSA (1)	14 GA.					
	SRAA	12 GA.					
	RCHEP	CLASS HE-III					
	RCVEP	CLASS VE-III					
	RCPA	CLASS A-III					
54	2⅔"×½" CSPA (1)	12 GA.					
	(3) CSPA (1)	14 GA.					
	2⅔"×½" CAPA	10 GA.					
	3"×1" CAPA	14 GA.					
	SRSA (1)	14 GA.					
	SRAA	12 GA.					
	RCHEP	CLASS HE-III					
	RCVEP	CLASS VE-III					
	RCPA	CLASS A-III					
60	2⅔"×½" CSPA (1)	10 GA.					
	(3) CSPA (1)	14 GA.					
	2⅔"×½" CAPA	8 GA.					
	3"×1" CAPA	14 GA.					
	SRSA (1)	12 GA.					
	SRAA	10 GA.					
	RCHEP	CLASS HE-III					
	RCVEP	CLASS VE-III					
	RCPA	CLASS A-III					
		2 - 5	6	7	8	9	10

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.

(3) 3"×1" OR 5"×1"

4. CSPA, CAPA, SRSA AND SRAA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.

5. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.

6. MINIMUM COVER HEIGHTS FOR PIPE SHALL BE 2 FEET. CLASS OR GAGE OF PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL BE THAT SHOWN FOR COVER HEIGHTS OF 10 FEET. (SEE STANDARD SPECIFICATIONS FOR BACKFILL)

7. MAXIMUM COVER HEIGHT FOR NON-CIRCULAR PIPE IS 10 FEET. NON-CIRCULAR PIPE SHALL ONLY BE USED WHERE COVER LIMITATIONS EXIST.

8. CLASS OR GAGE OF ENTRANCE PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL MEET THE FOLLOWING REQUIREMENTS:

   a. GAGE OF CAPA SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLE.

   b. GAGE OF CSPA SHALL BE THAT SHOWN IN TABLE.

   c. CLASS OF RCPA SHALL BE THAT SHOWN FOR HEIGHTS OF 10 FEET.

(9) ENTRANCE PIPE GREATER THAN 30" DIA. SHALL BE CULVERT PIPE.

10. SEE CURRENT STANDARD DRAWING RDI-016 FOR NON-CIRCULAR PIPE ALTERNATES.

LEGEND

CSPA: CORRUGATED STEEL PIPE ARCH (ANNULAR CORR.)

CAPA: CORRUGATED ALUMINUM ALLOY PIPE ARCH (ANNULAR CORR.)

RCHEP: REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE

RCVEP: REINFORCED CONCRETE VERTICAL ELLIPTICAL PIPE

RCPA: REINFORCED CONCRETE PIPE ARCH

SRSA: SPIRAL RIB STEEL ARCH

SRAA: SPIRAL RIB ALUMINUM ARCH

15" PIPE - 60" PIPE
NON-CIRCULAR

11. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET (4)					
		2 - 5	6	7	8	9	10
66	(3) CSPA (1)	14 GA.					
	6"x2" CSPA (1)	12 GA.					
	3"x1" CAPA	14 GA.					
	RCHEP	CLASS HE-III					
	RCVEP	CLASS VE-III					
	RCPA	CLASS A-III					
72	(3) CSPA (1)	14 GA.					
	6"x2" CSPA (1)	12 GA.					
	3"x1" CAPA	12 GA.					
	RCHEP	CLASS HE-III					
	RCVEP	CLASS VE-III					
	RCPA	CLASS A-III					
78	(3) CSPA (1)	12 GA.					
	6"x2" CSPA (1)	12 GA.					
	3"x1" CAPA	12 GA.					
	9"x2½" CAPAASB	12 GA.					
	RCHEP	CLASS HE-III					
	RCVEP	CLASS VE-III					
	RCPA	CLASS A-III					
		2 - 5	6	7	8	9	10

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET (4)					
		2 - 5	6	7	8	9	10
84	(3) CSPA (1)	12 GA.					
	6"x2" CSPA (1)	12 GA.					
	3"x1" CAPA	12 GA.					
	9"x2½" CAPAASB	12 GA.					
	RCHEP	CLASS HE-III					
	RCVEP	CLASS VE-III					
	RCPA	CLASS A-III					
90	(3) CSPA (1)	12 GA.					
	6"x2" CSPA (1)	12 GA.					
	3"x1" CAPA	10 GA.					
	9"x2½" CAPAASB	12 GA.					
	RCPA	CLASS A-III					
96	(3) CSPA (1)	12 GA.					
	6"x2" CSPA (1)	12 GA.					
	3"x1" CAPA	8 GA.					
	9"x2½" CAPAASB	12 GA.					
	RCPA	CLASS A-III					
		2 - 5	6	7	8	9	10

EQUI. PIPE DIA. (IN)	PIPE TYPE	NON-CIRCULAR PIPE COVER HEIGHTS IN FEET (4)					
		2 - 5	6	7	8	9	10
102	(3) CSPA (1)	12 GA.					
	6"x2" CSPA (1)	12 GA.					
	3"x1" CAPA	8 GA.					
	9"x2½" CAPAASB	12 GA.					
	RCPA	CLASS A-III					
108	(3) CSPA (1)	10 GA.					
	6"x2" CSPA (1)	12 GA.					
	9"x2½" CAPAASB	12 GA.					
	RCPA	CLASS A-III					
114	(3) CSPA (1)	10 GA.					
	6"x2" CSPA (1)	12 GA.					
	9"x2½" CAPAASB	12 GA.					
120	6"x2" CSPA (1)	12 GA.					
	9"x2½" CAPAASB	12 GA.					
	RCPA	CLASS A-III					
		2 - 5	6	7	8	9	10

(1) GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.

2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.

(3) 3"x1" OR 5"x1"

(4) SEE CURRENT STANDARD DRAWING RDI-011 FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET.

5. CSPA AND CAPA ARE SHOWN IN GAGE. RCP IS SHOWN BY CLASS.

6. MAXIMUM COVER HEIGHT FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN CLASS OR GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.

7. MAXIMUM COVER HEIGHT FOR NON-CIRCULAR PIPE IS 10 FEET. NON-CIRCULAR PIPE SHALL ONLY BE USED WHERE COVER LIMITATIONS EXIST.

8. NON-CIRCULAR CMP HAVING AN EQUIVALENT ROUND DIAMETER GREATER THAN 84" SHALL BE SUPPLIED AS STRUCTURAL PLATE.

9. SEE CURRENT STANDARD DRAWING RDI-016 FOR NON-CIRCULAR PIPE ALTERNATES.

10. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

LEGEND

CSPA: CORRUGATED STEEL PIPE ARCH (ANNULAR CORR.)

CAPA: CORRUGATED ALUMINUM ALLOY PIPE ARCH (ANNULAR CORR.)

CAPAASB: CORRUGATED ALUMINUM ALLOY PIPE ARCH WITH ALUMINUM OR STEEL BOLTS (ANNULAR CORR.)

RCHEP: REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE

RCVEP: REINFORCED CONCRETE VERTICAL ELLIPTICAL PIPE

RCPA: REINFORCED CONCRETE PIPE ARCH

66" PIPE - 120" PIPE NON-CIRCULAR

EQUIVALENT CIRCULAR PIPE DIAMETER	2⅔" x ½" CSPA & CAPA		(1) CSPA AND 3" x 1" CAPA		6" x 2" CSPA		9"x2½" CAPAASB		RCHEP		RCVEP		RCPA	
	SPAN (INCH)	RISE (INCH)	SPAN (INCH)	RISE (INCH)	SPAN	RISE	SPAN	RISE	SPAN (INCH)	RISE (INCH)	SPAN (INCH)	RISE (INCH)	SPAN (INCH)	RISE (INCH)
15"	17	13											18	11
18"	21	15							23	14			22	13½
21"	24	18											26	15½
24"	28	20							30	19			28½	18
30"	35	24							38	24			36¼	22½
36"	42	29							45	29	29	45	43¾	26⅝
42"	49	33							53	34	34	53	51⅛	31⁵⁄₁₆
48"	57	38							60	38	38	60	58½	36
54"	64	43	60	46					68	43	43	68	65	40
60"	71	47	66	51					76	48	48	76	73	45
66"			73	55	6'-1"	4'-7"			83	53	53	83		
72"			81	59	6'-9"	4'-11"			91	58	58	91	88	54
78"			87	63	7'-3"	5'-3"	6'-11"	5'-9"	98	63	63	98		
84"			95	67	7'-11"	5'-7"	7'-9"	6'-0"	106	68	68	106	102	62
90"			103	71	8'-7"	5'-11"	8'-5"	6'-3"					115	72
96"			112	75	9'-4"	6'-3"	9'-3"	6'-5"					122	77¼
102"			117	79	9'-9"	6'-7"	9'-11"	6'-8"						
108"			128	83	10'-8"	6'-11"	10'-9"	6'-10"					138	87⅛
114"			137	87	11'-5"	7'-3"	11'-5"	7'-1"						
120"			142	91	11'-10"	7'-7"	12'-3"	7'-3"					154	96⅞

CHART KEY

2⅔"x½" CSPA: CORRUGATED STEEL PIPE ARCH
3"x1" OR 5"x1" CSPA: CORRUGATED STEEL PIPE ARCH
6"x2" CSPA: CORRUGATED STEEL PIPE ARCH
2⅔"x½" CAPA: CORRUGATED ALUMINUM ALLOY PIPE ARCH
3"x1" CAPA: CORRUGATED ALUMINUM ALLOY PIPE ARCH
9"x2½" CAPAASB: CORRUGATED ALUMINUM ALLOY PIPE ARCH WITH ALUMINUM OR STEEL BOLTS
RCHEP: REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
RCVEP: REINFORCED CONCRETE VERTICAL ELLIPTICAL PIPE
RCPA: REINFORCED CONCRETE PIPE ARCH

NOTES

(1) 3"x1" OR 5"x1"