

PLAN VIEW

NOTES:

1. DETAILS SHOWN ARE FOR COLLAR PLATES FOR 4", 8" AND 12" DIAMETER OUTLETS. FOR CYLINDER THICKNESS, COLLAR PLATE THICKNESS, FLANGE RATINGS, AND OUTLET Ø, SEE TABLES 1, 2 OR 3, RESPECTIVELY, SHEETS 5 - 10.
2. FOR INSTALLATION INSTRUCTIONS AND NOTES, SEE SHEET 4.
3. OUTLET FLANGE NOT SHOWN FOR CLARITY.

SHEET 1 OF 10

REVISION	BY	APPROVED	DATE
ORIGINAL	RK	J. NAGELVOORT	0918

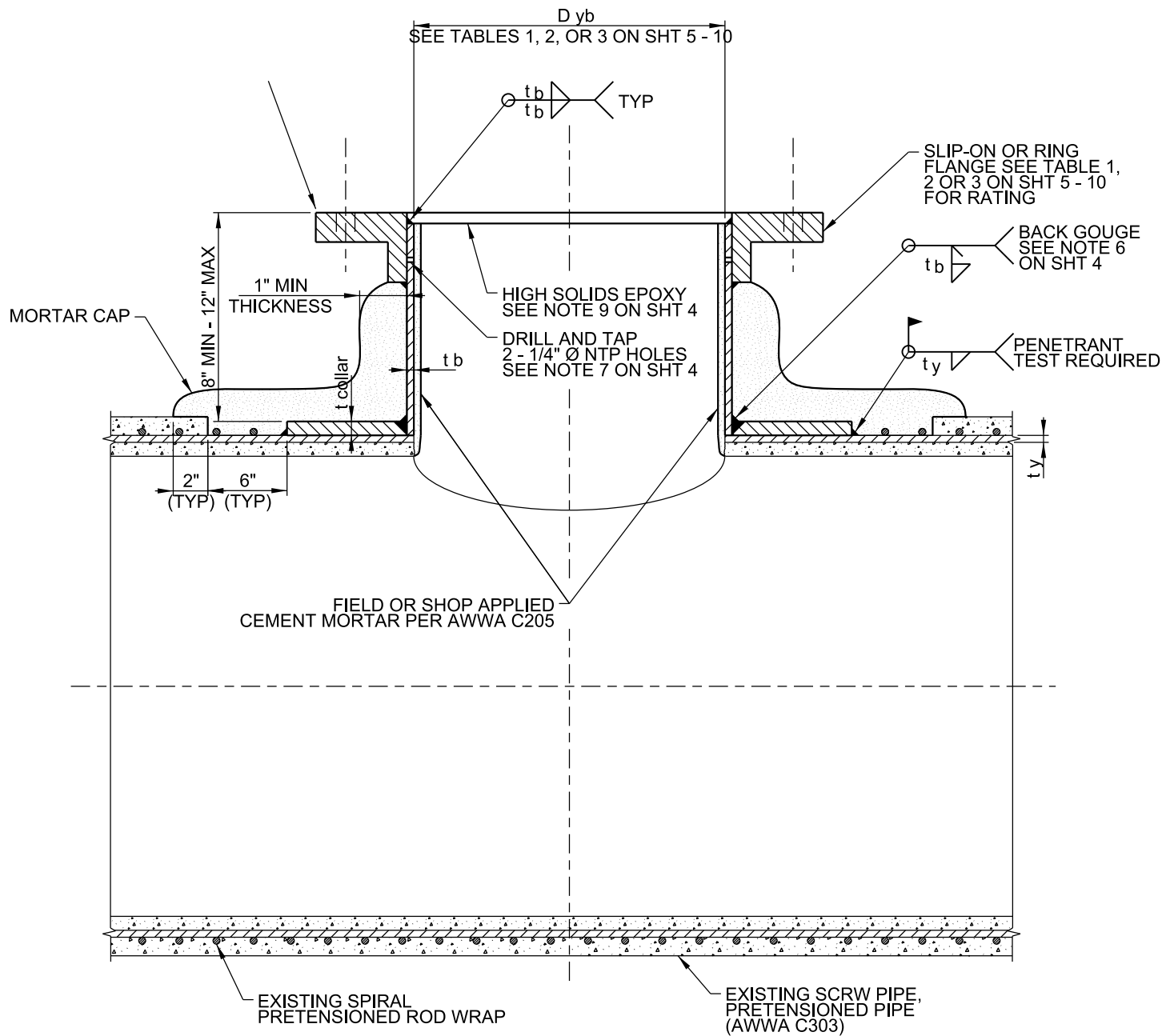
CITY OF SAN DIEGO – STANDARD DRAWING

**OUTLET AND COLLAR PLATE DETAIL
FOR SCRW PIPE
20" TO 54" DIAMETER**

RECOMMENDED BY THE CITY
OF SAN DIEGO STANDARDS COMMITTEE

Chungga 9/7/18
COORDINATOR R.C.E. 56523 DATE

DRAWING NUMBER **SDW-177**



SECTION A - A

NOTES:

1. DETAILS SHOWN ARE FOR COLLAR PLATES FOR 4", 8" AND 12" DIAMETER OUTLETS. FOR CYLINDER THICKNESS, COLLAR PLATE THICKNESS, FLANGE RATINGS, AND OUTLET Ø, SEE TABLES 1, 2 OR 3, RESPECTIVELY, ON SHEETS 5 - 10.
2. FOR INSTALLATION INSTRUCTIONS AND NOTES, SEE SHEET 4.

SHEET 2 OF 10

REVISION	BY	APPROVED	DATE
ORIGINAL	RK	J. NAGELVOORT	0918

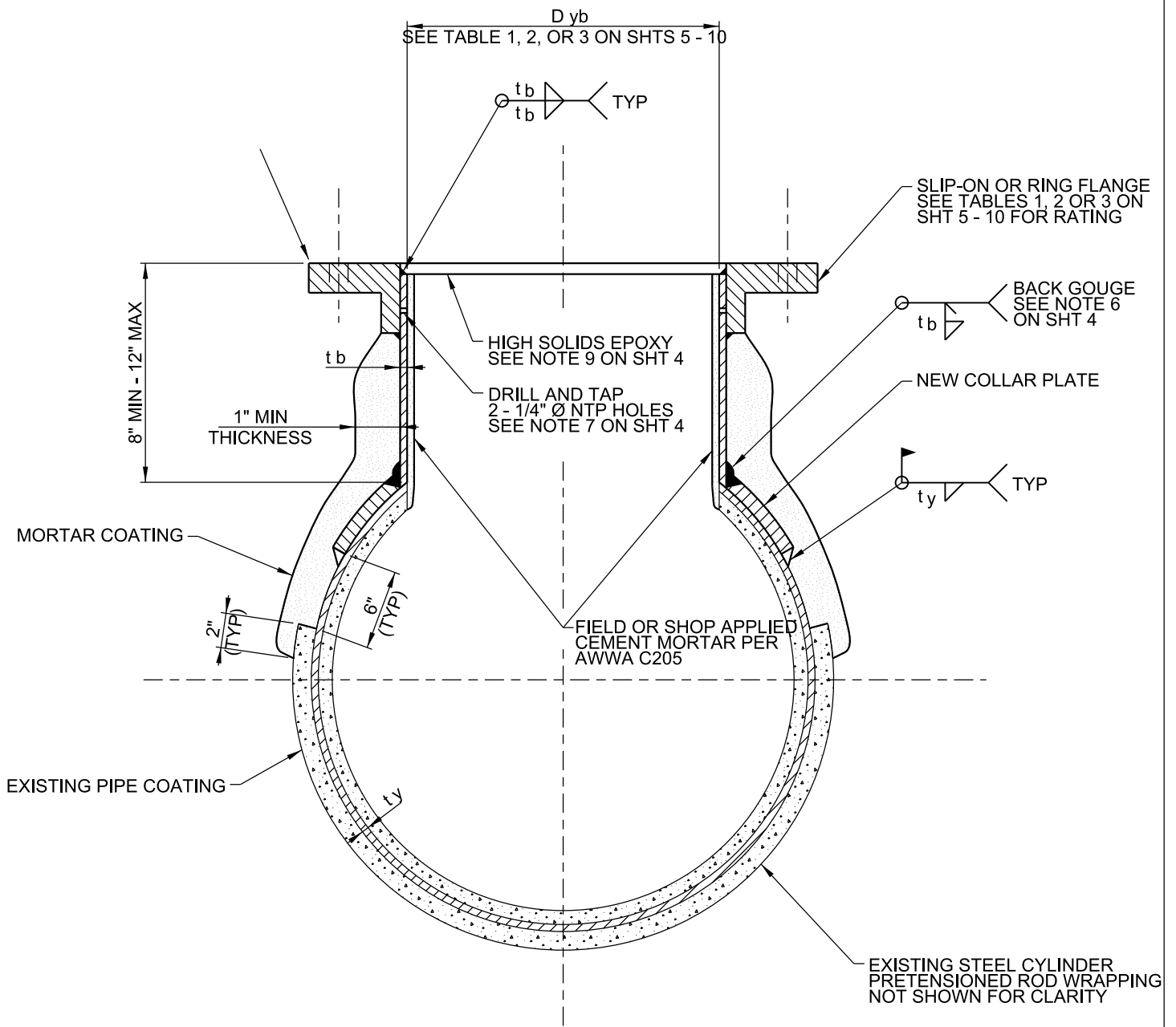
CITY OF SAN DIEGO – STANDARD DRAWING

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FOR SCRW PIPE
20" TO 54" DIAMETER**

RECOMMENDED BY THE CITY
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Chungga 9/7/18
COORDINATOR R.C.E. 56523 DATE

DRAWING NUMBER **SDW-177**



SECTION B - B

NOTES:

1. DETAILS SHOWN ARE FOR COLLAR PLATES FOR 4" 8" AND 12" DIAMETER OUTLETS. FOR CYLINDER THICKNESS, COLLAR PLATE THICKNESS, FLANGE RATINGS, AND OUTLET Ø, SEE TABLES 1, 2 OR 3, RESPECTIVELY, ON SHEETS 5 - 10.
2. FOR INSTALLATION INSTRUCTIONS AND NOTES, SEE SHEET 4.

SHEET 3 OF 10

REVISION	BY	APPROVED	DATE
ORIGINAL	RK	J. NAGELVOORT	0918

CITY OF SAN DIEGO – STANDARD DRAWING

**OUTLET AND COLLAR PLATE DETAIL
FOR SCRW PIPE
20" TO 54" DIAMETER**

RECOMMENDED BY THE CITY
OF SAN DIEGO STANDARDS COMMITTEE

Chungga 9/7/18
COORDINATOR R.C.E. 56523 DATE

DRAWING NUMBER **SDW-177**

NOTES:

1. DETERMINE THE PIPE DIAMETER, CYLINDER THICKNESS AND PRESSURE RATING OF THE EXISTING PIPELINE. IF THE CYLINDER THICKNESS IS LESS THAN 10 GAUGE (0.134"), SPECIAL WELDING PROCEDURES SHALL BE SUBMITTED, OR THE ENTIRE PIPE SECTION SHALL BE REMOVED AND REPLACED
2. FABRICATE THE COLLAR PLATE USING THE DIMENSIONS SHOWN ON TABLES 1, 2 OR 3, SHEETS 5 - 10.
3. REMOVE THE MORTAR COATING AND MARK THE INSTALLATION LOCATION OF THE COLLAR PLATE. THE OUTER EDGE OF THE COLLAR PLATE SHALL BE LOCATED AND MARKED ON THE STEEL CYLINDER OF THE PIPELINE. DO NOT CUT THE EXISTING PRETENSIONED REINFORCING ROD WRAP AT THIS TIME.
4. WELD THE EXISTING ROD WRAP TO THE STEEL CYLINDER WITHIN 1 INCH OF THE COLLAR PLATE INSTALLATION LOCATION AS SHOWN. WELD ONE ADDITIONAL ROD WRAP ON EITHER SIDE OF THE COLLAR PLATE THAT WILL NOT BE CUT. THE LENGTH OF THE WELDS ALONG ALL REINFORCING RODS SHALL BE A MINIMUM OF 4 INCHES. ALL WELDING SHALL BE PERFORMED USING E60XX WELDING RODS AND THE WELDERS SHALL BE CERTIFIED WELDERS PER ASME BPVC, SECTION IX. NOTE THE ROD WRAP IS IN TENSION AND CANNOT BE CUT UNTIL IT IS PROPERLY WELDED TO THE STEEL CYLINDER. AFTER WELDING THE ROD WRAP TO THE CYLINDER, CUT THE ROD WITHIN 1 INCH OF THE EDGE OF THE COLLAR PLATE INSTALLATION LOCATION.
5. WELD THE COLLAR PLATE / OUTLET ASSEMBLY TO THE STEEL CYLINDER.
6. PENETRANT TESTING SHALL BE PERFORMED ON THE GROOVE WELD ROOT PASS AND WHERE NOTED.
7. FOR SLIP-ON FLANGES, DRILL AND TAP HOLES PRIOR TO WELDING. CONTRACTOR SHALL PLUG WELD TAPPED HOLES ON COMPLETION OF SOAP AND AIR TEST.
8. OUTLET SHALL HAVE A SHOP OR FIELD APPLIED PORTLAND CEMENT MORTAR PER AWWA C205.
9. HIGH SOLIDS EPOXY (16 MILS) SHALL BE SHOP APPLIED TO SURFACES NOT COVERED BY CEMENT-MORTAR. EPOXY SHALL BE CURED IN ACCORDANCE W/ MANUFACTURES RECOMMENDATION PRIOR TO SUBJECTING IT TO IMMERSION. EPOXY SHALL BE NSF 61 APPROVED.
10. ALL GASKETS SHALL BE FULL FACED.
11. CLASS D FLANGES MAY USE RUBBER, COMPRESSED FIBER OR POLYTETRAFLUORETHYLENE GASKETS. CLASS E & F FLANGES MUST USE COMPRESSED FIBER OR POLYTETRAFLUORETHYLENE GASKETS. CLASS F FLANGES HAVE A MAXIMUM ALLOWABLE PRESSURE OF 300 PSI. IF PRESSURE IS HIGHER THAN 300 PSI CONTRACTOR SHALL SUBMIT ALTERNATIVE FLANGE.

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	RK	J. NAGELVOORT	0918		 COORDINATOR R.C.E. 56523
				OUTLET AND COLLAR PLATE DETAIL FOR SCRW PIPE 20" TO 54" DIAMETER	9/7/18 DATE
					DRAWING NUMBER
					SDW-177

Collar and Outlet Dimensions - Table 1

Nominal Pipe Diameter Inches D	Pressure Class psi P	C303 Steel Cylinder thickness inches (gauge) ty	Steel Cylinder OD inches Dy+2ty	AWWA C207 Flange Class	4" outlet with collar			
					Outlet Diameter inches D _{yb}	Min Outlet Thickness inches t _b	Min Collar Width inches W _{collar}	Min Collar Thickness inches t _{collar}
20	125	0.06 (16)	21.78	D	See note 1 on Sheet 4			
20	175	0.075 (14)	21.78	D	See note 1 on Sheet 4			
20	250	0.105 (12)	21.78	E	See note 1 on Sheet 4			
20	325	0.134 (10)	21.78	F	4	0.237	8	0.3125 (5/16)
21	125	0.06 (16)	22.78	D	See note 1 on Sheet 4			
21	175	0.075 (14)	22.78	D	See note 1 on Sheet 4			
21	250	0.105 (12)	22.78	E	See note 1 on Sheet 4			
21	325	0.134 (10)	22.78	F	4	0.237	8	0.3125 (5/16)
24	150	0.075 (14)	25.75	D	See note 1 on Sheet 4			
24	225	0.105 (12)	25.75	E	See note 1 on Sheet 4			
24	275	0.134 (10)	25.75	E	4	0.237	8	0.3125 (5/16)
24	350	0.164 (8)	25.75	F	4	0.237	8	0.375 (3/8)
27	125	0.075 (14)	28.78	D	See note 1 on Sheet 4			
27	200	0.105 (12)	28.78	E	See note 1 on Sheet 4			
27	250	0.134 (10)	28.78	E	4	0.237	8	0.3125 (5/16)
27	300	0.164 (8)	28.78	F	4	0.237	8	0.375 (3/8)
30	125	0.075 (14)	31.88	D	See note 1 on Sheet 4			
30	175	0.105 (12)	31.88	D	See note 1 on Sheet 4			
30	225	0.134 (10)	31.88	E	4	0.237	8	0.3125 (5/16)
30	275	0.164 (8)	31.88	E	4	0.237	8	0.375 (3/8)
30	325	0.188	31.88	F	4	0.237	8	0.4375 (7/16)
33	100	0.075 (14)	34.87	D	See note 1 on Sheet 4			
33	150	0.105 (12)	34.88	D	See note 1 on Sheet 4			
33	200	0.134 (10)	34.88	E	4	0.237	8	0.3125 (5/16)
33	250	0.164 (8)	34.88	E	4	0.237	8	0.375 (3/8)
33	300	0.188	34.88	F	4	0.237	8	0.5 (1/2)
36	100	0.090 (13)	37.87	D	See note 1 on Sheet 4			
36	150	0.105 (12)	37.88	D	See note 1 on Sheet 4			
36	175	0.134 (10)	37.88	D	4	0.237	8	0.25 (1/4)
36	225	0.164 (8)	37.88	E	4	0.237	8	0.375 (3/8)
36	275	0.188	37.88	E	4	0.237	8	0.5 (1/2)
36	350	0.25	37.88	F	4	0.237	8	0.625 (5/8)

NOTE:

- SEE NOTE 11 ON SHT 4.

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	RK	J. NAGELVOORT	0918		 COORDINATOR R.C.E. 56523
				OUTLET AND COLLAR PLATE DETAIL FOR SCRW PIPE 20" TO 54" DIAMETER	9/7/18 DATE
					DRAWING NUMBER SDW-177

Collar and Outlet Dimensions - Table 1 (continued)

Nominal Pipe Diameter Inches D	Pressure Class psi P	C303 Steel Cylinder thickness inches (gauge) ty	Steel Cylinder OD inches Dy+2ty	AWWA C207 Flange Class	4" outlet with collar			
					Outlet Diameter inches D _{yb}	Min Outlet Thickness inches t _b	Min Collar Width inches W _{collar}	Min Collar Thickness inches t _{collar}
					See note 1 on Sheet 4			
39	100	0.090 (13)	40.87	D	See note 1 on Sheet 4			
39	125	0.105 (12)	40.88	D	See note 1 on Sheet 4			
39	175	0.134 (10)	40.88	D	4	0.237	8	0.3125 (5/16)
39	200	0.164 (8)	40.88	E	4	0.237	8	0.375 (3/8)
39	250	0.188	40.88	E	4	0.237	8	0.4375 (7/16)
39	325	0.25	40.88	F	4	0.237	8	0.625 (5/8)
					See note 1 on Sheet 4			
42	125	0.105 (12)	43.88	D	See note 1 on Sheet 4			
42	150	0.134 (10)	43.88	D	4	0.237	8	0.25 (1/4)
42	200	0.164 (8)	43.88	E	4	0.237	8	0.375 (3/8)
42	225	0.188	43.88	E	4	0.237	8	0.4375 (7/16)
42	300	0.25	43.88	F	4	0.237	8	0.5625 (9/16)
					See note 1 on Sheet 4			
45	100	0.105 (12)	46.88	D	See note 1 on Sheet 4			
45	150	0.134 (10)	46.88	D	4	0.237	8	0.3125 (5/16)
45	175	0.164 (8)	46.88	D	4	0.237	8	0.375 (3/8)
45	200	0.188	46.88	E	4	0.237	8	0.375 (3/8)
45	275	0.25	46.88	E	4	0.237	8	0.5625 (9/16)
45	300	0.312	46.87	F	4	0.237	8	0.5625 (9/16)
					See note 1 on Sheet 4			
48	100	0.105 (12)	49.88	D	See note 1 on Sheet 4			
48	125	0.134 (10)	49.88	D	4	0.237	8	0.25 (1/4)
48	175	0.164 (8)	49.88	D	4	0.237	8	0.375 (3/8)
48	200	0.188	49.88	E	4	0.237	8	0.4375 (7/16)
48	225	0.25	49.88	E	4	0.237	8	0.4375 (7/16)
48	250	0.25	49.88	E	4	0.237	8	0.5625 (9/16)
48	300	0.312	49.87	F	4	0.237	8	0.625 (5/8)
					See note 1 on Sheet 4			
51	125	0.134 (10)	52.88	D	4	0.237	8	0.25 (1/4)
51	150	0.164 (8)	52.88	D	4	0.237	8	0.3125 (5/16)
51	175	0.188	52.88	D	4	0.237	8	0.375 (3/8)
51	225	0.25	52.88	E	4	0.237	8	0.5 (1/2)
51	250	0.25	52.88	E	4	0.237	8	0.625 (5/8)
51	300	0.312	52.87	F	4	0.237	8	0.75 (3/4)
					See note 1 on Sheet 4			
54	125	0.134 (10)	55.88	D	4	0.237	8	0.3125 (5/16)
54	150	0.164 (8)	55.88	D	4	0.237	8	0.375 (3/8)
54	175	0.188	55.88	D	4	0.237	8	0.4375 (7/16)
54	225	0.25	55.88	E	4	0.237	8	0.5625 (9/16)
54	250	0.312	55.87	E	4	0.237	8	0.5625 (9/16)
54	275	0.312	55.87	E	4	0.237	8	0.75 (3/4)
54	350	0.375	55.88	F	4	0.237	8	0.875 (7/8)

NOTE:

- SEE NOTE 11 ON SHT 4.

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	RK	J. NAGELVOORT	0918		
				OUTLET AND COLLAR PLATE DETAIL FOR SCRW PIPE 20" TO 54" DIAMETER	 COORDINATOR R.C.E. 56523
					9/7/18 DATE
					DRAWING NUMBER
					SDW-177

Collar and Outlet Dimensions - Table 2

Nominal Pipe Diameter Inches D	Pressure Class psi P	C303 Steel Cylinder thickness inches (gauge) ty	Steel Cylinder OD inches Dy+2ty	AWWA C207 Flange Class	8" outlet with collar			
					Outlet Diameter inches D _{yb}	Min Outlet Thickness inches t _b	Min Collar Width inches W _{collar}	Min Collar Thickness inches t _{collar}
20	125	0.06 (16)	21.78	D	See note 1 on Sheet 4			
20	175	0.075 (14)	21.78	D	See note 1 on Sheet 4			
20	250	0.105 (12)	21.78	E	See note 1 on Sheet 4			
20	325	0.134 (10)	21.78	F	8	0.322	14	0.4375 (7/16)
21	125	0.06 (16)	22.78	D	See note 1 on Sheet 4			
21	175	0.075 (14)	22.78	D	See note 1 on Sheet 4			
21	250	0.105 (12)	22.78	E	See note 1 on Sheet 4			
21	325	0.134 (10)	22.78	F	8	0.322	14	0.5 (1/2)
24	150	0.075 (14)	25.75	D	See note 1 on Sheet 4			
24	225	0.105 (12)	25.75	E	See note 1 on Sheet 4			
24	275	0.134 (10)	25.75	E	8	0.322	16	0.3125 (5/16)
24	350	0.164 (8)	25.75	F	8	0.322	16	0.4375 (7/16)
27	125	0.075 (14)	28.78	D	See note 1 on Sheet 4			
27	200	0.105 (12)	28.78	E	See note 1 on Sheet 4			
27	250	0.134 (10)	28.78	E	8	0.322	16	0.3125 (5/16)
27	300	0.164 (8)	28.78	F	8	0.322	16	0.375 (3/8)
30	125	0.075 (14)	31.88	D	See note 1 on Sheet 4			
30	175	0.105 (12)	31.88	D	See note 1 on Sheet 4			
30	225	0.134 (10)	31.88	E	8	0.322	16	0.3125 (5/16)
30	275	0.164 (8)	31.88	E	8	0.322	16	0.375 (3/8)
30	325	0.188	31.88	F	8	0.322	16	0.5 (1/2)
33	100	0.075 (14)	34.87	D	See note 1 on Sheet 4			
33	150	0.105 (12)	34.88	D	See note 1 on Sheet 4			
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33	300	0.188	34.88	F	8	0.322	16	0.5 (1/2)
36	100	0.090 (13)	37.87	D	See note 1 on Sheet 4			
36	150	0.105 (12)	37.88	D	See note 1 on Sheet 4			
36	175	0.134 (10)	37.88	D	8	0.322	16	0.25 (1/4)
36	225	0.164 (8)	37.88	E	8	0.322	16	0.375 (3/8)
36	275	0.188	37.88	E	8	0.322	16	0.5 (1/2)
36	350	0.25	37.88	F	8	0.322	16	0.625 (5/8)

NOTE:

- SEE NOTE 11 ON SHT 4.

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	RK	J. NAGELVOORT	0918		
				OUTLET AND COLLAR PLATE DETAIL FOR SCRW PIPE 20" TO 54" DIAMETER	 COORDINATOR R.C.E. 56523
					9/7/18 DATE
					DRAWING NUMBER
					SDW-177

Collar and Outlet Dimensions - Table 2 (continued)

Nominal Pipe Diameter Inches D	Pressure Class psi P	C303 Steel Cylinder thickness inches (gauge) ty	Steel Cylinder OD inches Dy+2ty	AWWA C207 Flange Class	8" outlet with collar			
					Outlet Diameter inches D _{yb}	Min Outlet Thickness inches t _b	Min Collar Width inches W _{collar}	Min Collar Thickness inches t _{collar}
39	100	0.090 (13)	40.87	D	See note 1 on Sheet 4			
39	125	0.105 (12)	40.88	D	See note 1 on Sheet 4			
39	175	0.134 (10)	40.88	D	8	0.322	16	0.3125 (5/16)
39	200	0.164 (8)	40.88	E	8	0.322	16	0.375 (3/8)
39	250	0.188	40.88	E	8	0.322	16	0.4375 (7/16)
39	325	0.25	40.88	F	8	0.322	16	0.625 (5/8)
					See note 1 on Sheet 4			
42	125	0.105 (12)	43.88	D	See note 1 on Sheet 4			
42	150	0.134 (10)	43.88	D	8	0.322	16	0.25 (1/4)
42	200	0.164 (8)	43.88	E	8	0.322	16	0.375 (3/8)
42	225	0.188	43.88	E	8	0.322	16	0.4375 (7/16)
42	300	0.25	43.88	F	8	0.322	16	0.625 (5/8)
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45	100	0.105 (12)	46.88	D	See note 1 on Sheet 4			
45	150	0.134 (10)	46.88	D	8	0.322	16	0.3125 (5/16)
45	175	0.164 (8)	46.88	D	8	0.322	16	0.375 (3/8)
45	200	0.188	46.88	E	8	0.322	16	0.4375 (7/16)
45	275	0.25	46.88	E	8	0.322	16	0.5625 (9/16)
45	300	0.312	46.87	F	8	0.322	16	0.625 (5/8)
					See note 1 on Sheet 4			
48	100	0.105 (12)	49.88	D	See note 1 on Sheet 4			
48	125	0.134 (10)	49.88	D	8	0.322	16	0.25 (1/4)
48	175	0.164 (8)	49.88	D	8	0.322	16	0.375 (3/8)
48	200	0.188	49.88	E	8	0.322	16	0.4375 (7/16)
48	225	0.25	49.88	E	8	0.322	16	0.5 (1/2)
48	250	0.25	49.88	E	8	0.322	16	0.5625 (9/16)
48	300	0.312	49.87	F	8	0.322	16	0.625 (5/8)
					See note 1 on Sheet 4			
51	125	0.134 (10)	52.88	D	8	0.322	16	0.25 (1/4)
51	150	0.164 (8)	52.88	D	8	0.322	16	0.3125 (5/16)
51	175	0.188	52.88	D	8	0.322	16	0.375 (3/8)
51	225	0.25	52.88	E	8	0.322	16	0.5 (1/2)
51	250	0.25	52.88	E	8	0.322	16	0.625 (5/8)
51	300	0.312	52.87	F	8	0.322	16	0.75 (3/4)
					See note 1 on Sheet 4			
54	125	0.134 (10)	55.88	D	8	0.322	16	0.3125 (5/16)
54	150	0.164 (8)	55.88	D	8	0.322	16	0.375 (3/8)
54	175	0.188	55.88	D	8	0.322	16	0.4375 (7/16)
54	225	0.25	55.88	E	8	0.322	16	0.5625 (9/16)
54	250	0.312	55.87	E	8	0.322	16	0.5625 (9/16)
54	275	0.312	55.87	E	8	0.322	16	0.75 (3/4)
54	350	0.375	55.88	F	8	0.322	16	0.875 (7/8)

NOTE:

- SEE NOTE 11 ON SHT 4.

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
				OUTLET AND COLLAR PLATE DETAIL FOR SCRW PIPE 20" TO 54" DIAMETER	
ORIGINAL	RK	J. NAGELVOORT	0918		9/7/18 <small>COORDINATOR R.C.E. 56523 DATE</small>
					DRAWING NUMBER
					SDW-177

Collar and Outlet Dimensions - Table 3

Nominal Pipe Diameter Inches D	Pressure Class psi P	C303 Steel Cylinder thickness inches (gauge) ty	Steel Cylinder OD inches Dy+2ty	AWWA C207 Flange Class	12" outlet with collar			
					Outlet Diameter inches D _{yb}	Min Outlet Thickness inches t _b	Min Collar Width inches W _{collar}	Min Collar Thickness inches t _{collar}
					20	125	0.06 (16)	21.78
20	175	0.075 (14)	21.78	D	See note 1 on Sheet 4			
20	250	0.105 (12)	21.78	E	See note 1 on Sheet 4			
20	325	0.134 (10)	21.78	F	use wrapper plate			
21	125	0.06 (16)	22.78	D	See note 1 on Sheet 4			
21	175	0.075 (14)	22.78	D	See note 1 on Sheet 4			
21	250	0.105 (12)	22.78	E	See note 1 on Sheet 4			
21	325	0.134 (10)	22.78	F	use wrapper plate			
24	150	0.075 (14)	25.75	D	See note 1 on Sheet 4			
24	225	0.105 (12)	25.75	E	See note 1 on Sheet 4			
24	275	0.134 (10)	25.75	E	use wrapper plate			
24	350	0.164 (8)	25.75	F	use wrapper plate			
27	125	0.075 (14)	28.78	D	See note 1 on Sheet 4			
27	200	0.105 (12)	28.78	E	See note 1 on Sheet 4			
27	250	0.134 (10)	28.78	E	use wrapper plate			
27	300	0.164 (8)	28.78	F	use wrapper plate			
30	125	0.075 (14)	31.88	D	See note 1 on Sheet 4			
30	175	0.105 (12)	31.88	D	See note 1 on Sheet 4			
30	225	0.134 (10)	31.88	E	12	0.375	20	0.5 (1/2)
30	275	0.164 (8)	31.88	E	12	0.375	20	0.5625 (9/16)
30	325	0.188	31.88	F	12	0.375	20	0.75 (3/4)
33	100	0.075 (14)	34.87	D	See note 1 on Sheet 4			
33	150	0.105 (12)	34.88	D	See note 1 on Sheet 4			
33	200	0.134 (10)	34.88	E	12	0.375	24	0.3125 (5/16)
33	250	0.164 (8)	34.88	E	12	0.375	24	0.375 (3/8)
33	300	0.188	34.88	F	12	0.375	24	0.5 (1/2)
36	100	0.090 (13)	37.87	D	See note 1 on Sheet 4			
36	150	0.105 (12)	37.88	D	See note 1 on Sheet 4			
36	175	0.134 (10)	37.88	D	12	0.375	24	0.3125 (5/16)
36	225	0.164 (8)	37.88	E	12	0.375	24	0.375 (3/8)
36	275	0.188	37.88	E	12	0.375	24	0.5 (1/2)
36	350	0.25	37.88	F	12	0.375	24	0.625 (5/8)

NOTE:

- SEE NOTE 11 ON SHT 4.

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	RK	J. NAGELVOORT	0918		OUTLET AND COLLAR PLATE DETAIL FOR SCRW PIPE 20" TO 54" DIAMETER
					DRAWING NUMBER SDW-177

Collar and Outlet Dimensions - Table 3 (continued)

Nominal Pipe Diameter Inches D	Pressure Class psi P	C303 Steel Cylinder thickness inches (gauge) ty	Steel Cylinder OD inches Dy+2ty	AWWA C207 Flange Class	12" outlet with collar			
					Outlet Diameter inches Dyb	Min Outlet Thickness inches tb	Min Collar Width inches Wcollar	Min Collar Thickness inches tcollar
39	100	0.090 (13)	40.87	D	See note 1 on Sheet 4			
39	125	0.105	40.88	D	See note 1 on Sheet 4			
39	175	0.134	40.88	D	12	0.375	24	0.3125 (5/16)
39	200	0.164	40.88	E	12	0.375	24	0.375 (3/8)
39	250	0.188	40.88	E	12	0.375	24	0.5 (1/2)
39	325	0.25	40.88	F	12	0.375	24	0.625 (5/8)
					See note 1 on Sheet 4			
42	125	0.105	43.88	D	See note 1 on Sheet 4			
42	150	0.134	43.88	D	12	0.375	24	0.3125 (5/16)
42	200	0.164	43.88	E	12	0.375	24	0.375 (3/8)
42	225	0.188	43.88	E	12	0.375	24	0.4375 (7/16)
42	300	0.25	43.88	F	12	0.375	24	0.625 (5/8)
					See note 1 on Sheet 4			
45	100	0.105	46.88	D	See note 1 on Sheet 4			
45	150	0.134	46.88	D	12	0.375	24	0.3125 (5/16)
45	175	0.164	46.88	D	12	0.375	24	0.375 (3/8)
45	200	0.188	46.88	E	12	0.375	24	0.4375 (7/16)
45	275	0.25	46.88	E	12	0.375	24	0.5625 (9/16)
45	300	0.312	46.87	F	12	0.375	24	0.625 (5/8)
					See note 1 on Sheet 4			
48	100	0.105	49.88	D	See note 1 on Sheet 4			
48	125	0.134	49.88	D	12	0.375	24	0.25 (1/4)
48	175	0.164	49.88	D	12	0.375	24	0.375 (3/8)
48	200	0.188	49.88	E	12	0.375	24	0.4375 (7/16)
48	225	0.25	49.88	E	12	0.375	24	0.5 (1/2)
48	250	0.25	49.88	E	12	0.375	24	0.5625 (9/16)
48	300	0.312	49.87	F	12	0.375	24	0.75 (3/4)
					See note 1 on Sheet 4			
51	125	0.134	52.88	D	12	0.375	24	0.3125 (5/16)
51	150	0.164	52.88	D	12	0.375	24	0.3125 (5/16)
51	175	0.188	52.88	D	12	0.375	24	0.4375 (7/16)
51	225	0.25	52.88	E	12	0.375	24	0.5 (1/2)
51	250	0.25	52.88	E	12	0.375	24	0.625 (5/8)
51	300	0.312	52.87	F	12	0.375	24	0.75 (3/4)
					See note 1 on Sheet 4			
54	125	0.134	55.88	D	12	0.375	24	0.3125 (5/16)
54	150	0.164	55.88	D	12	0.375	24	0.375 (3/8)
54	175	0.188	55.88	D	12	0.375	24	0.4375 (7/16)
54	225	0.25	55.88	E	12	0.375	24	0.5625 (9/16)
54	250	0.312	55.87	E	12	0.375	24	0.625 (5/8)
54	275	0.312	55.87	E	12	0.375	24	0.75 (3/4)
54	350	0.375	55.88	F	12	0.375	24	0.875 (7/8)

NOTE:

- SEE NOTES 11 AND 12 ON SHT 4.

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	RK	J. NAGELVOORT	0918		
				OUTLET AND COLLAR PLATE DETAIL FOR SCRW PIPE 20" TO 54" DIAMETER	 COORDINATOR R.C.E. 56523
					9/7/18 DATE
					DRAWING NUMBER
					SDW-177