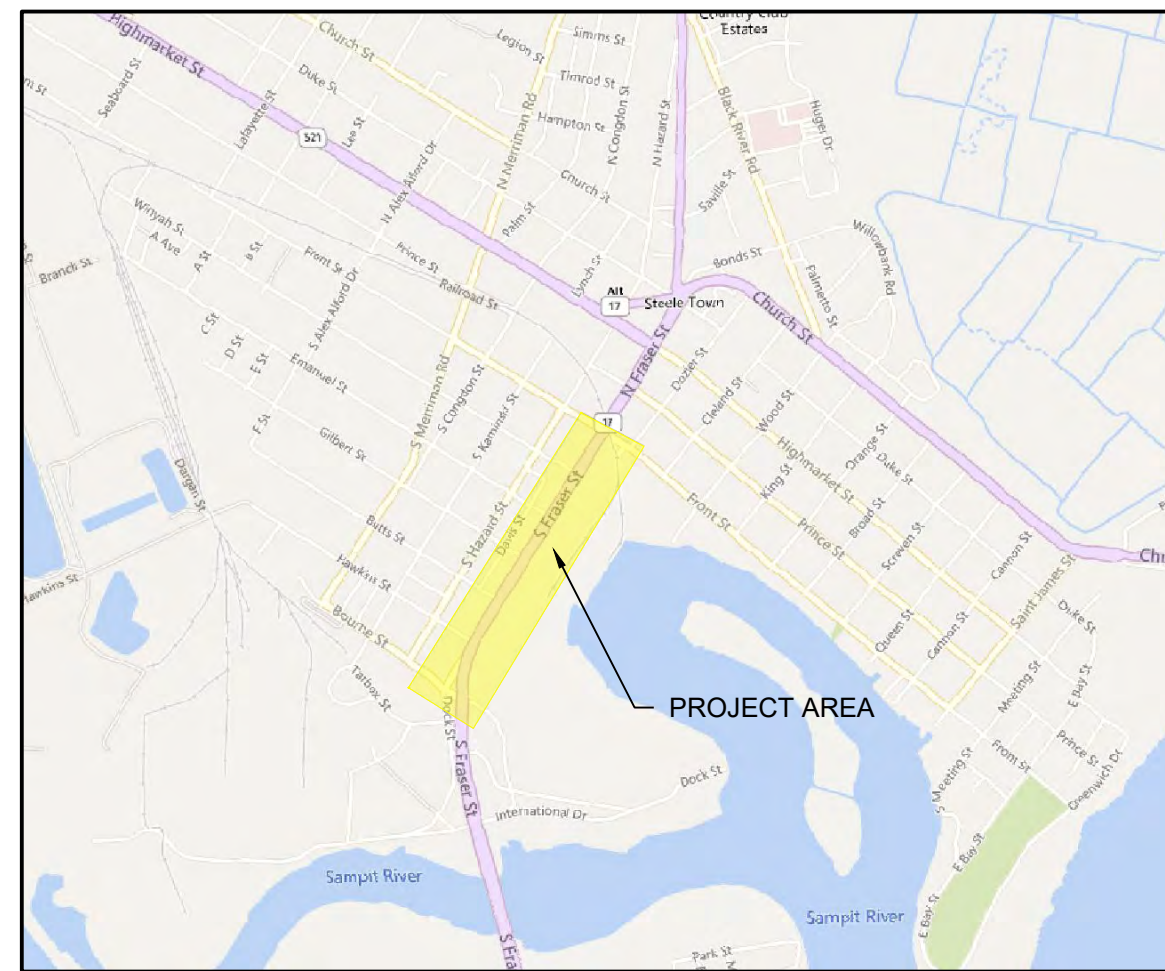
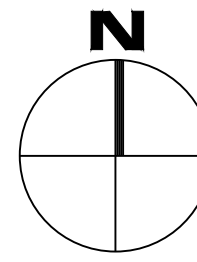


S. FRASER STREET (US HWY 17)

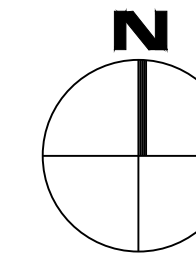
SANITARY SEWER & MANHOLE REHABILITATION PROJECT NO. 1818



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



November 2023

MAYOR
CAROL R. JAYROE

CITY COUNCIL
CLARENCE C. SMALLS
HOBSON HENRY MILTON
JONATHAN ANGNER
JIMMY MORRIS
JIM CLEMENTS
TAMIKA WILLIAMS-OBENG



CITY ADMINISTRATOR
SCOTT WHITTIER

CITY ENGINEER
ORLANDO ARTEAGA, P.E.

DRAWING INDEX	
SHEET	TITLE
G000	COVER AND DRAWING INDEX
G001	GENERAL NOTES
C100 - C102	INFRASTRUCTURE DATA MAPS
C200 - C202	RECOMMENDED REHABILITATION MAPS
C300	MANHOLE REHAB TABLE
C301	MAINLINE REHAB TABLE
C302	LATERAL REHAB TABLE
C400	CONSTRUCTION DETAILS
C401	CONSTRUCTION DETAILS
C402	SCDOT STANDARD DRAWINGS AND
	EROSION AND SEDIMENT CONTROL DETAILS
C403	SCDOT STANDARD TRAFFIC CONTROL DETAILS

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



SANITARY SEWER and
MANHOLE SURVEY
S. FRASER STREET
PROJECT #1818



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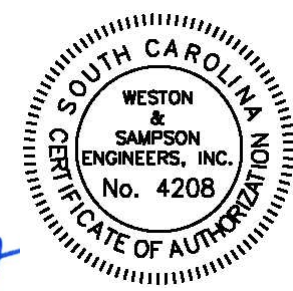
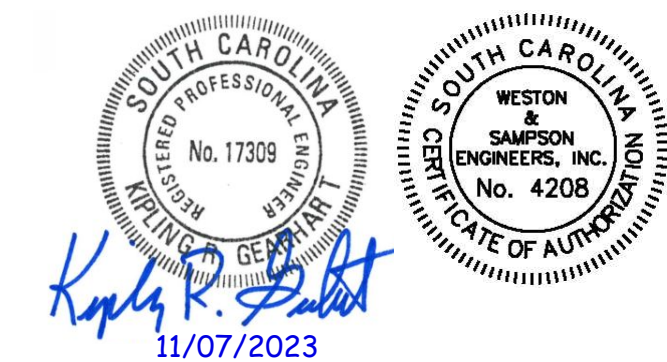
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Drawn By: JAP
Reviewed By: NTS/JTB
Approved By: KG
W&S Project No.: ENG23-0476
W&S File No.:

Drawing Title:
COVER SHEET

Sheet Number:
G000






Legend

- SEWER MANHOLE
- ML RATING
- 1
- 2
- 3
- 4
- 5
- ↔ NO INSPECTION
- ↔ NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
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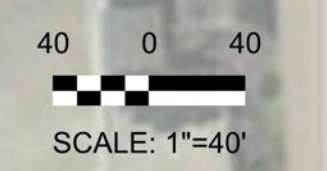
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INFRASTRUCTURE DATA MAP I

S. FRASER STREET
 FROM BOURNE STREET
 TO FRONT STREET

Sheet Number:

C100



Rev. 1.8 Date: 04/10/2019



Legend

- SEWER MANHOLE
- ML RATING
- ➔ 1
- ➔ 2
- ➔ 3
- ➔ 4
- ➔ 5
- ➔ NO INSPECTION
- ➔ NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

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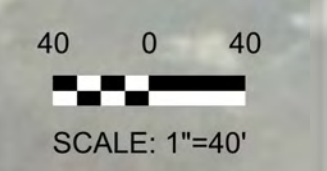
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 W&S Project No.: ENG23-0476
 W&S File No.:

Drawing Title:
 INFRASTRUCTURE DATA MAP
 II
 S. FRASER STREET
 FROM BOURNE STREET
 TO FRONT STREET

Sheet Number:
C101



Rev. 1.8 Date: 04/10/2019



Legend

- SEWER MANHOLE
- ML RATING
- 1
- 2
- 3
- 4
- 5
- NO INSPECTION
- NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
 CITY OF GEORGETOWN
 2377 MAYBANK DRIVE
 GEORGETOWN, SC 29440

City of Georgetown
 SOUTH CAROLINA

SANITARY SEWER AND
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W&S Project No.: ENG23-0476

W&S File No.:

Drawing Title:

INFRASTRUCTURE DATA MAP III

S. FRASER STREET
 FROM BOURNE STREET
 TO FRONT STREET


Sheet Number:

C102



Legend
 REHABILITATION RECOMMENDATIONS
 — CIPP
 — POINT REPAIR W/ CIPP
 — CIPP (ALTERNATE BID)
 — CIPP SHORT LINER
 ▲ MH W/ REPAIR
 * APPROXIMATE POINT REPAIR LOCATION. SEE TABLES
 * PLEASE SEE REHABILITATION TABLES FOR REPAIR RECOMMENDATIONS
 → NON-PROJECT SEWER PIPES
 ● NON-PROJECT SEWER MANHOLES

Project:
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 W&S Project No.: ENG23-0476
 W&S File No.:

Drawing Title:
 RECOMMENDED
 REHABILITATION MAP I
 S. FRASER STREET
 FROM BOURNE STREET
 TO FRONT STREET

Sheet Number:
C200



Legend
 REHABILITATION RECOMMENDATIONS

- CIPP
- POINT REPAIR W/ CIPP
- CIPP (ALTERNATE BID)
- CIPP SHORT LINER
- ▲ MH W/ REPAIR
- * APPROXIMATE POINT REPAIR LOCATION. SEE TABLES
- * PLEASE SEE REHABILITATION TABLES FOR REPAIR RECOMMENDATIONS
- NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
 CITY OF GEORGETOWN
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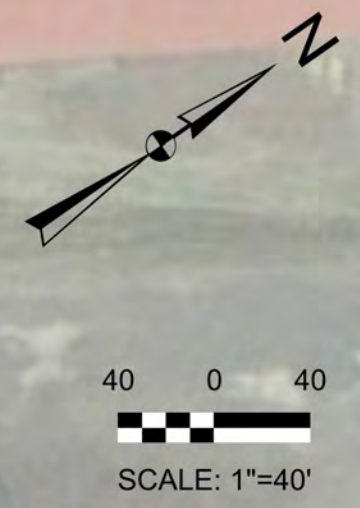
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 Approved By: KG
 W&S Project No.: ENG23-0476
 W&S File No.:

Drawing Title:
 RECOMMENDED
 REHABILITATION MAP II
 S. FRASER STREET
 FROM BOURNE STREET
 TO FRONT STREET

Sheet Number:
C201



MANHOLE 1821 DOES NOT EXIST BASED ON CCTV FOOTAGE.

Rev. 1.8 Date: 04/10/2019



Legend
 REHABILITATION RECOMMENDATIONS

- CIPP
- POINT REPAIR W/ CIPP
- CIPP (ALTERNATE BID)
- CIPP SHORT LINER
- ▲ MH W/ REPAIR
- * APPROXIMATE POINT REPAIR LOCATION. SEE TABLES
- * PLEASE SEE REHABILITATION TABLES FOR REPAIR RECOMMENDATIONS
- NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
 CITY OF GEORGETOWN
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 Approved By: KG
 W&S Project No.: ENG23-0476
 W&S File No.:

Drawing Title:
 RECOMMENDED REHABILITATION MAP III
 S. FRASER STREET FROM BOURNE STREET TO FRONT STREET

Sheet Number:
C202

Rev. 1.8 Date: 04/10/2019

Repair Item	Sheet Number	Manhole ID	Location Details	MH Width (in)	MH Depth (ft)	NORTHING	EASTING	Replace Manhole with New 4' Dia. Precast Manhole	Replace Manhole with New 5' Dia. Precast Manhole	Remove and Replace Standard MH Frame & Cover	Remove and Reset Existing Frame & Cover	Install New Flexible Chimney Seal	Repairing & Rebuilding Brickwork for Inverts, Channels, Benches, Wall, Cone & Chimneys	Coating Inverts w/ Quick Setting Grout	Sewer Monolithic Lining 4-ft Dia.	Lining Type	Level 2 MACP MH Inspection	Defect Location	Description of Defects	Manhole Report
MH-1	C200	1818	STREET	45.80	9.60	561679.69	2520471.41	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; INFILTRATION WEEPER; INFILTRATION DRIPPER	1818MH.pdf
MH-2	C200	1819	STREET	45.90	9.80	561638.68	2520448.99	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; INFILTRATION WEEPER; MISSING MORTAR SMALL; DEPOSITS SETTLED	1819MH.pdf
MH-3	C201	1822	PRIVATE PROP.	N/A	N/A	562522.39	2521056.80	NO	NO	NO	NO	NO	NO	NO	NO	N/A	NO		REMOVED FROM SCOPE (Manhole Located on Private Property)	N/A
MH-4	C201	1823	PRIVATE PROP.	43.30	5.10	562483.77	2521019.71	NO	NO	NO	NO	NO	NO	NO	NO	N/A	NO		REMOVED FROM SCOPE (Manhole Located on Private Property)	1823MH.pdf
MH-5	C202	1828	STREET	45.60	14.00	563869.70	2521822.41	NO	YES	NO	NO	YES	NO	NO	NO	N/A	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	BROKEN SOIL VISIBLE; DISPLACED BRICK; MISSING MORTAR LARGE	1828MH.pdf
MH-6	C202	1829	STREET	48.00	10.90	563425.98	2521551.15	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	INFILTRATION WEEPER; MISSING MORTAR LARGE; HOLE VOID VISIBLE; INFILTRATION DRIPPER	1829MH.pdf
MH-7	C201	1830	STREET	47.40	9.30	562984.26	2521281.46	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR MEDIUM; INFILTRATION STAIN; MISSING MORTAR LARGE; HOLE SOIL VISIBLE; INFILTRATION WEEPER; DISPLACED BRICK; OBSTRUCTION CONSTRUCTION DEBRIS	1830MH.pdf
MH-8	C201	1831	STREET	48.00	8.00	562773.30	2521152.07	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; INFILTRATION WEEPER; OBSTRUCTION CONSTRUCTION DEBRIS; SURFACE DAMAGE AGGREGATE PROJECTING	1831MH.pdf
MH-9	C201	1832	STREET	46.40	8.00	562550.69	2521017.36	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; MISSING MORTAR MEDIUM	1832MH.pdf
MH-10	C201	1833	STREET	50.40	8.10	562329.59	2520882.83	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS SETTLED FINE	1833MH.pdf
MH-11	C201	1834	STREET	45.30	9.00	562114.95	2520752.50	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; DISPLACED BRICK; INFILTRATION WEEPER; OBSTRUCTION CONSTRUCTION DEBRIS	1834MH.pdf
MH-12	C200	1835	STREET	54.00	9.50	561624.00	2520470.00	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; SURFACE DAMAGE AGGREGATE VISIBLE; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING	1835MH.pdf
MH-13	C200	1835A	STREET	-	9.00	N/A	N/A	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	YES	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MANHOLE PAVED OVER COMPLETE MANHOLE INSPECTION	
MH-14	C200	1836	STREET	-	7.45	561831.90	2520598.92	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	YES	SURCHARGED	MANHOLE WAS SURCHARGED COMPLETE MANHOLE INSPECTION	
MH-15	C201	1837	STREET	48.00	10.10	562157.48	2520793.48	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; DISPLACED BRICK; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE; INFILTRATION WEEPER	1837MH.pdf
MH-16	C201	1838	STREET	48.00	9.90	562493.44	2521003.02	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE; CRACK LONGITUDINAL; INFILTRATION WEEPER	1838MH.pdf
MH-17	C201	1839	STREET	47.40	10.30	562837.03	2521208.08	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING BRICK; MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; INFILTRATION WEEPER	1839MH.pdf
MH-18	C202	1840	STREET	48.00	12.00	563181.31	2521418.18	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR MEDIUM; INFILTRATION STAIN; MISSING MORTAR LARGE; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE; INFILTRATION WEEPER	1840MH.pdf
MH-19	C202	1841	STREET	48.00	13.30	563476.11	2521598.14	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR SMALL; MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE	1841MH.pdf
MH-20	C202	1842	STREET	48.00	10.00	563813.84	2521801.79	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE; INFILTRATION WEEPER; OBSTRUCTION CONSTRUCTION DEBRIS	1842MH.pdf
MH-21	C200	2193	STREET	44.00	4.20	561236.75	2520241.97	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION WEEPER; DEPOSITS SETTLED FINE; DEPOSITS ATTACHED GREASE; MISSING MORTAR MEDIUM	2193MH.pdf
MH-22	C200	2194	STREET	44.30	4.20	561250.51	2520220.60	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR MEDIUM; MISSING MORTAR LARGE; DEPOSITS SETTLED GRAVEL	2194MH.pdf

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



SANITARY SEWER and
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S. FRASER STREET
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W&S Project No.: ENG23-0476
W&S File No.:

Drawing Title:
MANHOLE REHAB TABLE

Sheet Number:
C300

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Rev: 1.6 Date: 04/10/2019

ML #	Sheet Number	Facility ID	Start MH	End MH	Material	CCTV Verified Diameter	CCTV Verified Length	Taps Active	Taps Inactive	Overall Inspection Grade	Proposed Rehab	Rehab Details
ML-1	C200	1835_1835A	1835	1835A	VCP	15	61.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-2	C200	1835A_1836	1835A	1836	VCP	15	181.1	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-3	C200/C201	1836_1837	1836	1837	VCP	15	378.0	0	0	1	No Work Recommended	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-4	C201	1837_1838	1837	1838	VCP	15	400.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-5	C201	1838_1839	1838	1839	VCP	15	400.0	0	0	3	CIPP Short Liner	CIPP Short Liner from 305 ft to 335 ft from USMH; Crack Multiple @ 310 ft to 330 ft from USMH.
ML-6	C201/C202	1839_1840	1839	1840	VCP	15	413.0	0	0	4	CIPP Short Liner	CIPP Short Liner centered at 355 ft from USMH; Large separated joint @ 355 ft from USMH
ML-7	C202	1840_1841	1840	1841	VCP	15	343.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-8	C202	1841_1842	1841	1842	VCP	15	398.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-9	C202	1842_1828	1842	1828	VCP	15	57.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-10	C201	1823_1838	1823	1838	VCP	8	30.0	1	0	5	Alternate Bid	CIPP Line Segment (Alternate Bid Item)
ML-11	C200	2193_2194	2193	2194	VCP	8	25.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-12	C200	2194_1819	2194	1819	VCP	8	450.0	7	2	3	Alternate Bid	CIPP Line Segment (Alternate Bid Item)
ML-13	C200	1818_1819	1818	1819	CIPP	12	50.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-14	C200	1819_1835	1819	1835	CAS	12	40.0	0	0	3	Alternate Bid	Heavy clean line segment to remove encrustations; CIPP Line Segment (Alternate Bid Item)
ML-15	C201	1834_1833	1834	1833	VCP	12	257.0	3	4	1	CIPP	CIPP Line Segment
ML-16	C201	1833_1832	1833	1832	VCP	12	252.0	4	4	5	Remove Intruding Tap, CIPP	Cut out intruding tap at 209 ft from USMH; CIPP Line Segment
ML-17	C201	1832_1831	1832	1831	VCP	12	255.0	2	4	5	Point Repair CIPP	20 ft Point Repair starting 235 ft from USMH to MH 1831; CIPP Line Segment
ML-18	C201	1831_1830	1831	1830	VCP	12	256.0	4	5	4	CIPP	CIPP Line Segment
ML-19	C201/C202	1830_1829	1830	1829	VCP	12	512.0	5	12	4	CIPP	CIPP Line Segment
ML-20	C202	1829_1828	1829	1828	VCP	12	530.0	8	24	5	Point Repair CIPP	30 ft Point Repair starting at DSMH headed upstream; CIPP Line Segment
ML-21	C201	1822_1823	1822	1823	Line removed from scope, Friday May, 19, 2023 by City of Georgetown. Line segment is on private property (steel mill).							

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



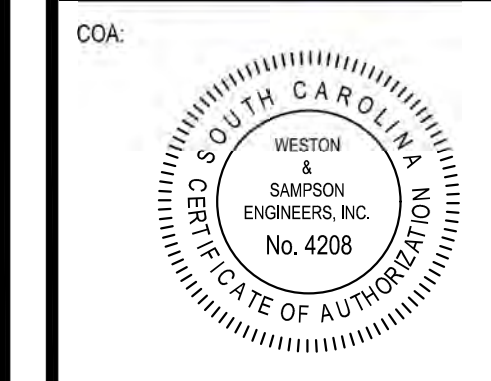
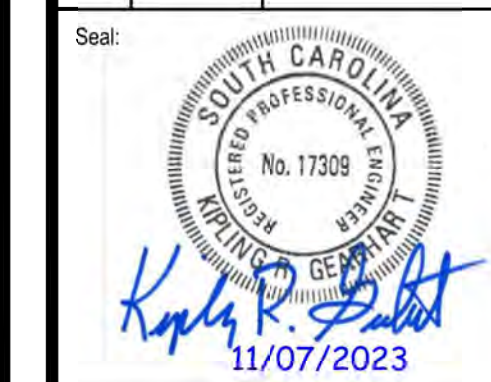
SANITARY SEWER and
MANHOLE SURVEY
S. FRASER STREET
PROJECT #1818



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W&S File No.:

Drawing Title:
MAINLINE REHAB TABLE

Sheet Number:
C301

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Rev: 1.6 Date: 04/10/2019

Sheet Number	Pipe ID	Facility ID (USMH_DSMH)	Lateral Material	Lateral Distance from USMH	Active	Defective	Capped	End Seal	Abandon	No Work	Rehab Recommendations		
C200	ML-1	1835_1835A								X	No Main Line Service Connections		
C200	ML-2	1835A_1836								X	No Main Line Service Connections		
C200/C201	ML-3	1836_1837								X	No Main Line Service Connections		
C201	ML-4	1837_1838								X	No Main Line Service Connections		
C201	ML-5	1838_1839								X	No Main Line Service Connections		
C201/C202	ML-6	1839_1840								X	No Main Line Service Connections		
C202	ML-7	1840_1841								X	No Main Line Service Connections		
C202	ML-8	1841_1842								X	No Main Line Service Connections		
C202	ML-9	1842_1828								X	No Main Line Service Connections		
C201	ML-10	1823_1838	PVC	6.0	XX			XX			ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.		
C200	ML-11	2193_2194								X	No Main Line Service Connections		
C200	ML-12	2194_1819	VCP	63.4	XX			XX				ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.	
			VCP	114.7	XX			XX				ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.	
			VCP	165.8	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.
			VCP	214.3		XX		XX					ALTERNATE BID: Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	241.4	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.
			VCP	271.5		XX		XX					ALTERNATE BID: Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	334.9	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.
			VCP	355.6	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.
VCP	397.5	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.			
C200	ML-13	1818_1819								X	No Main Line Service Connections		
C200	ML-14	1819_1835								X	No Main Line Service Connections		
C201	ML-15	1834_1833	DIP	83.3	X			X				Reinstate lateral after main line CIPP is complete. Install end seal at main connection.	
			VCP	85.7		X		XX				Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.	
			VCP	140.3			X		X				Abandon capped lateral.
			VCP	142.7	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	189.8				X		X			Abandon capped lateral.
			VCP	192.4	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	239.9		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
C201	ML-16	1833_1832	VCP	35.7			X		X			Abandon capped lateral.	
			VCP	38.1	X			X				Reinstate lateral after main line CIPP is complete. Install end seal at main connection.	
			VCP	101.4			X		X				Abandon capped lateral.
			VCP	104.2	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	154.1			X		X				Abandon capped lateral.
			VCP	156.5		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	206.2			X		X				Abandon capped lateral.
VCP	208.9	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.			
C201	ML-17	1832_1831	VCP	61.8			X		X			Abandon capped lateral.	
			VCP	64.4			X		X			Abandon capped lateral.	
			VCP	132.5			X		X				Abandon capped lateral.
			VCP	202.9			X		X				Abandon capped lateral.
VCP	205.4	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.			

Sheet Number	Pipe ID	Facility ID (USMH_DSMH)	Lateral Material	Lateral Distance from USMH	Active	Defective	Capped	End Seal	Abandon	No Work	Rehab Recommendations		
C201	ML-18	1831_1830	VCP	37.5			X		X			Abandon capped lateral.	
			VCP	40.2		X		XX				Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.	
			VCP	97.0			X		X				Abandon capped lateral.
			VCP	97.6	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	99.5		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	166.3			X						Abandon capped lateral.
			VCP	169.1			X		X				Abandon capped lateral.
			VCP	215.2			X		X				Abandon capped lateral.
			VCP	218.0		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	46.0			X		X		X		Abandon capped lateral.
			VCP	48.6			X		X		X		Abandon capped lateral.
C201/C202	ML-19	1830_1829	VCP	118.1			X		X			Abandon capped lateral.	
			VCP	120.5			X		X			Abandon capped lateral.	
			VCP	164.0			X		X				Abandon capped lateral.
			VCP	166.5		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	215.4			X		X		X		Abandon capped lateral.
			VCP	218.0	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			ZZZ	246.8		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	267.0			X		X		X		Abandon capped lateral.
			VCP	269.5			X		X		X		Abandon capped lateral.
			VCP	290.6		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	314.5	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	316.6	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	332.1	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	388.6			X		X		X		Abandon capped lateral.
VCP	391.2	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.			
VCP	442.5			X		X		X		Abandon capped lateral.			
VCP	445.4			X		X		X		Abandon capped lateral.			

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



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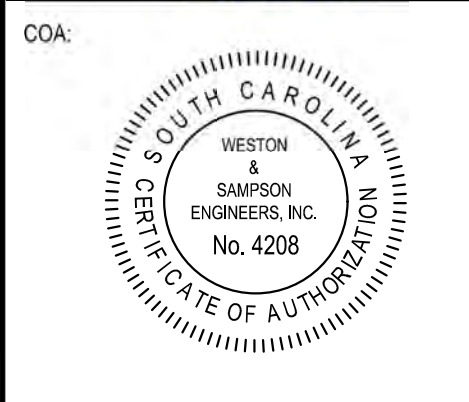
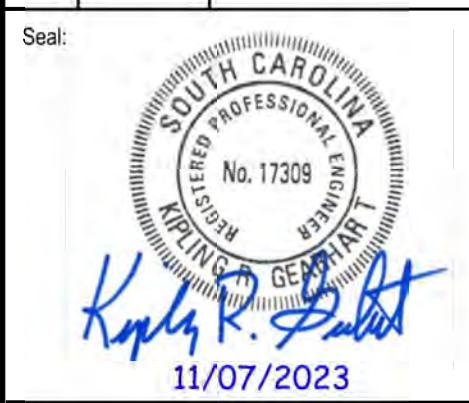


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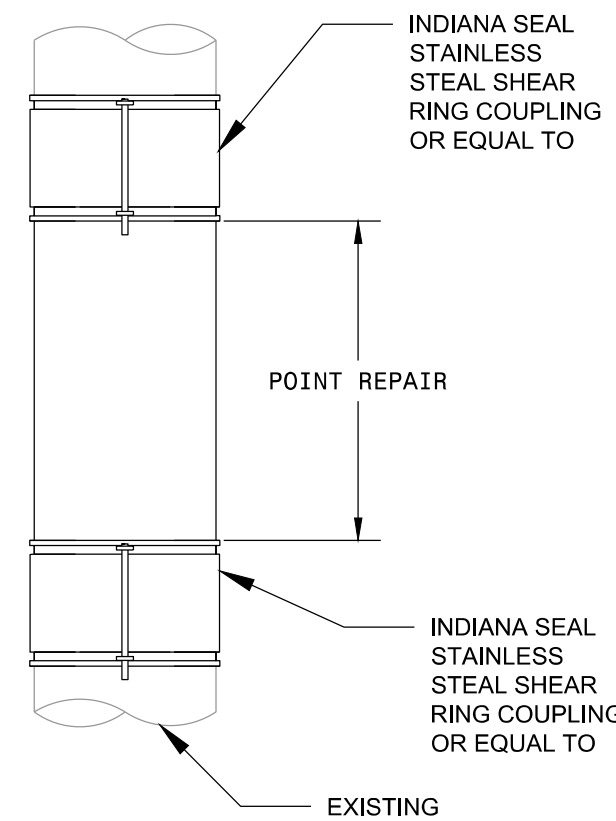
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W&S Project No.: ENG23-0476
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LATERAL REHAB TABLE

Sheet Number:
C302

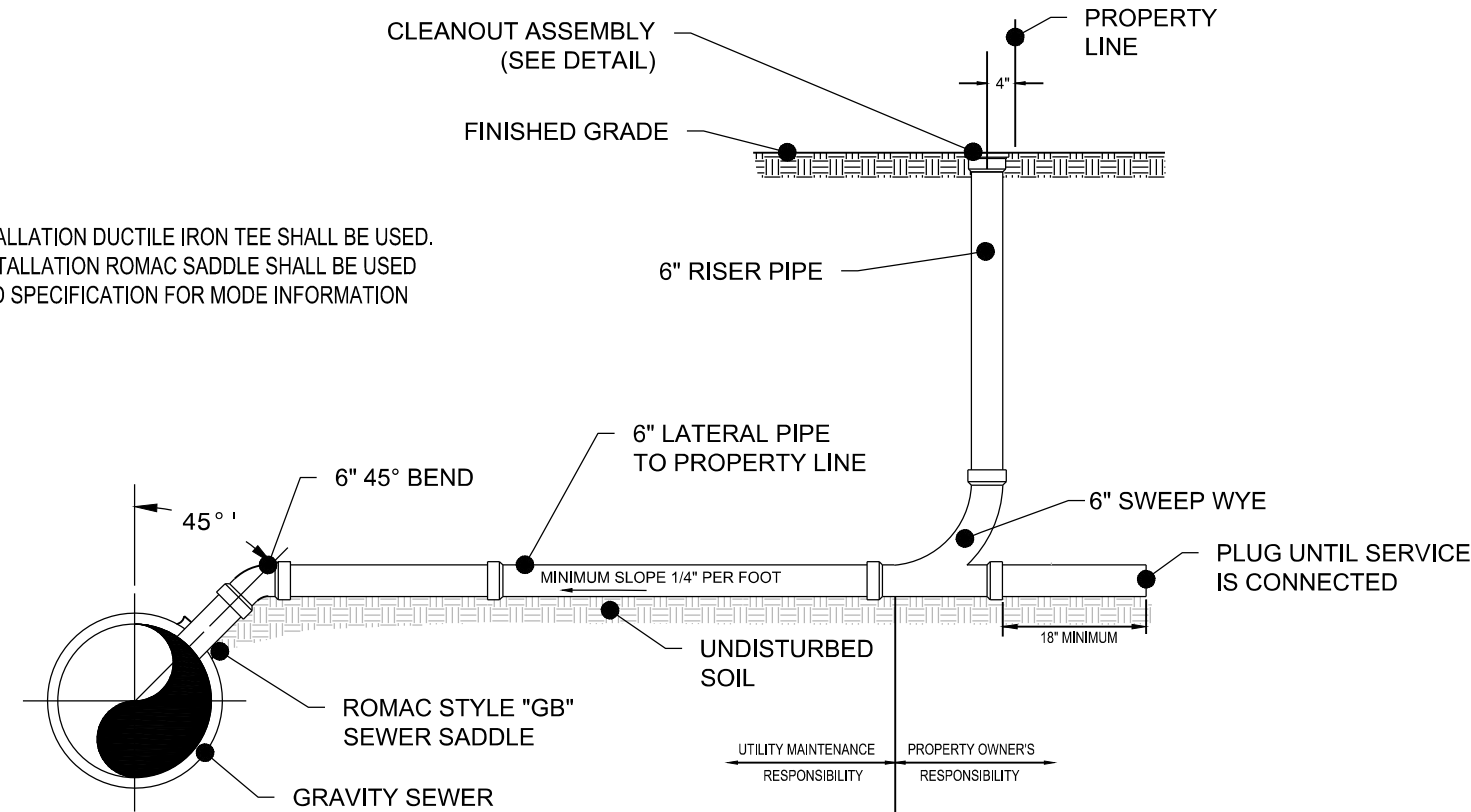
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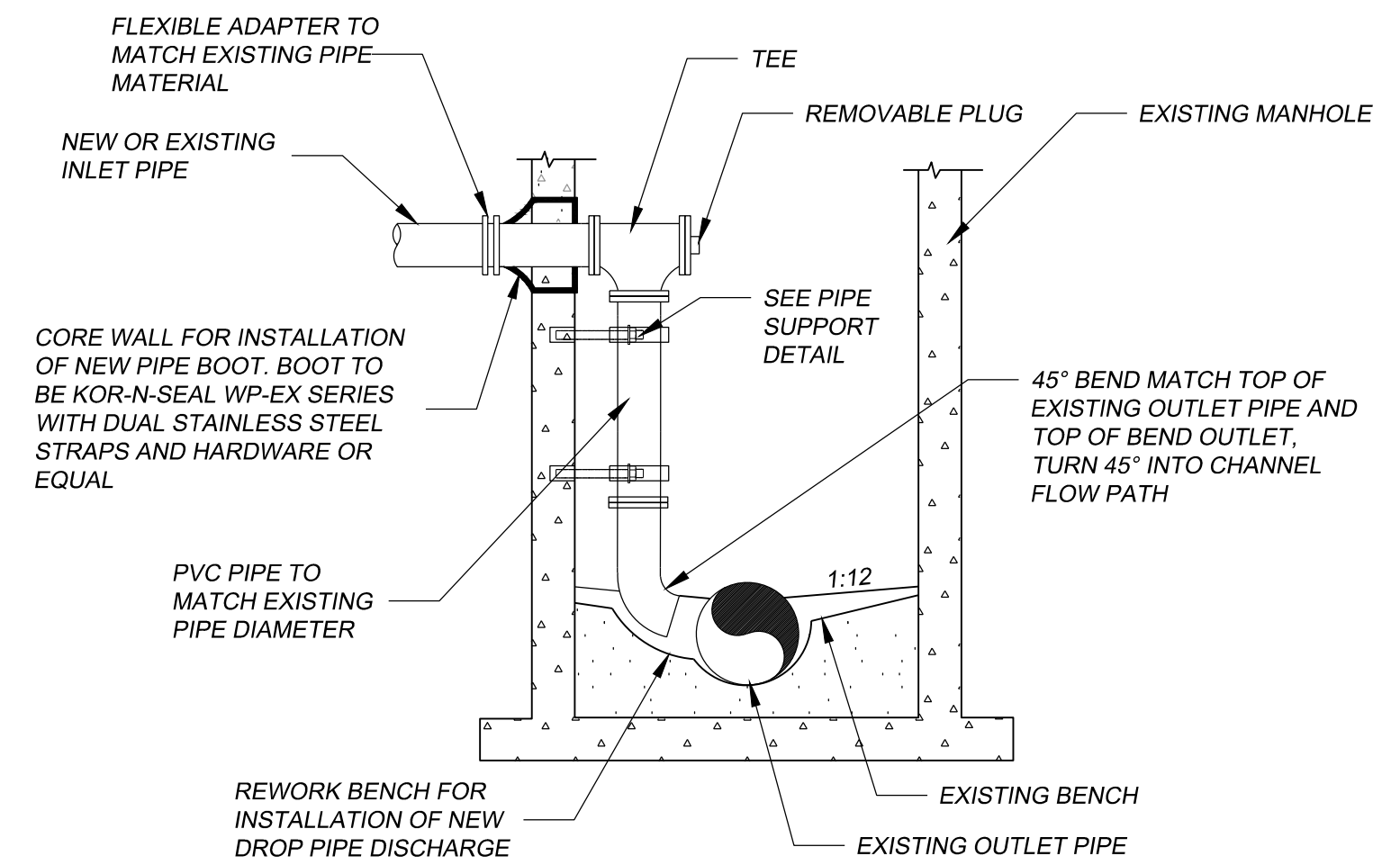


TEMPORARY POINT REPAIR FOR GRAVITY SEWER LINE

- NOTE:
1. PRE CIPP INSTALLATION DUCTILE IRON TEE SHALL BE USED.
 2. POST CIPP INSTALLATION ROMAC SADDLE SHALL BE USED
 3. SEE STANDARD SPECIFICATION FOR MORE INFORMATION



TAPPING SADDLE SANITARY SEWER LATERAL CONNECTION TO EXISTING MAIN



INSIDE DROP MANHOLE CONNECTION DETAIL

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



SANITARY SEWER and
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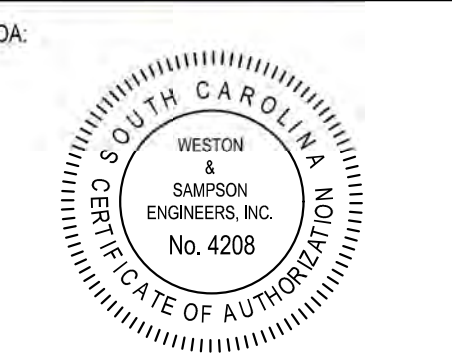


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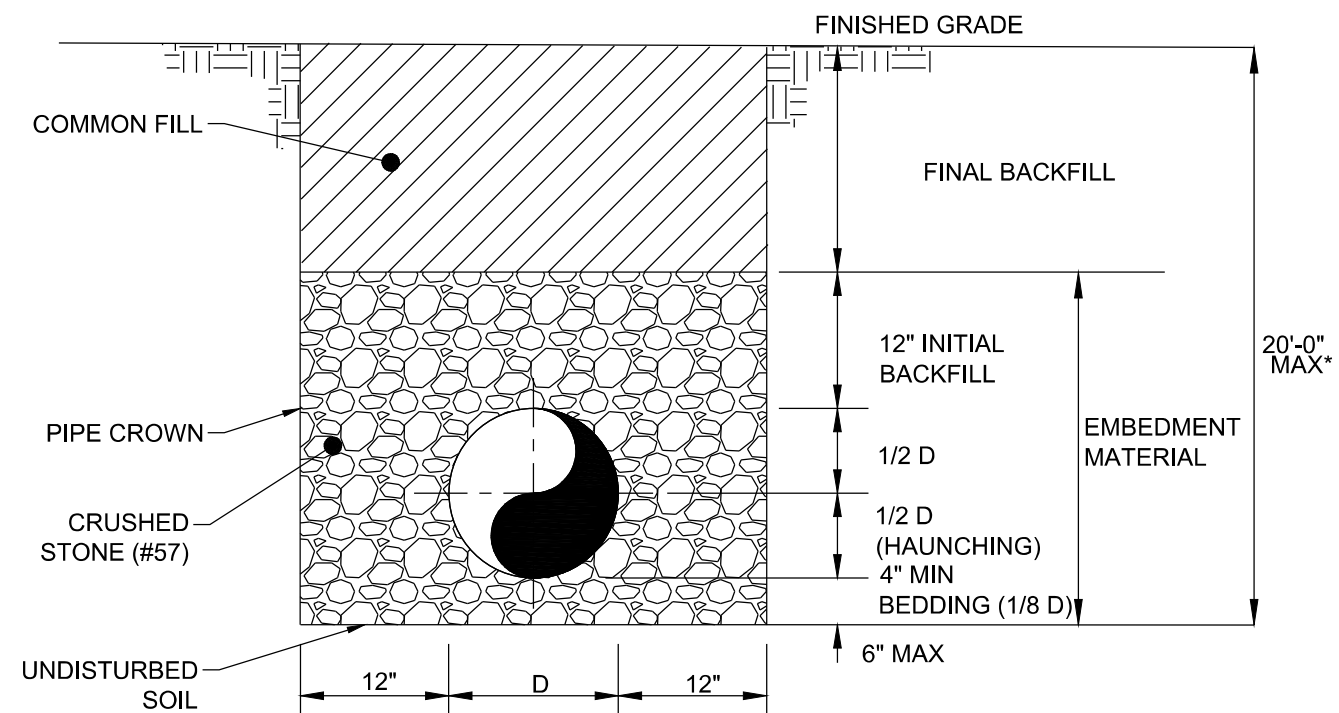
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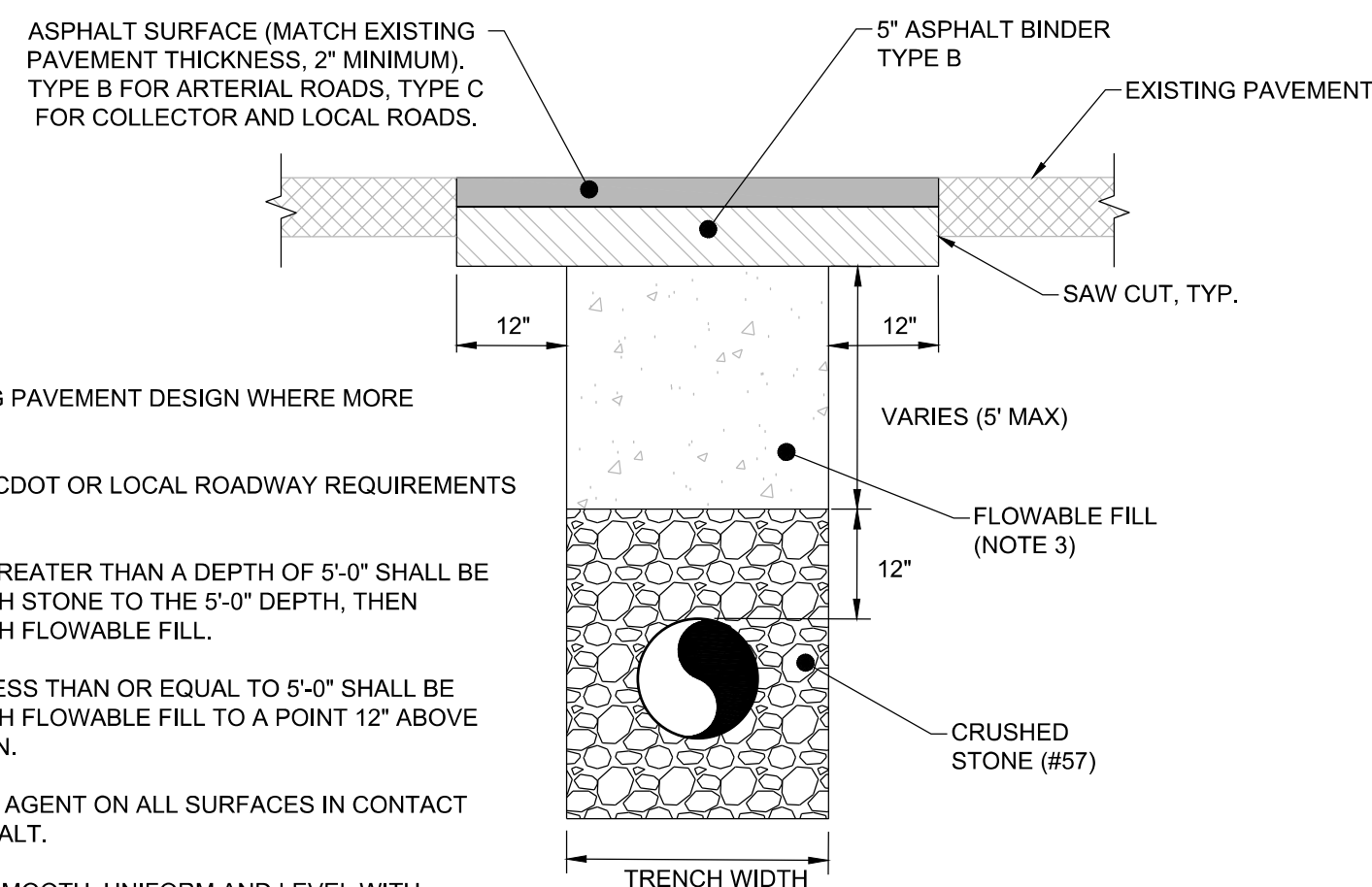
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CONSTRUCTION DETAILS

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C400



*NOTE: SPECIFIC DESIGN IS REQUIRED IF PIPE TRENCH DEPTH EXCEEDS 20'-0"

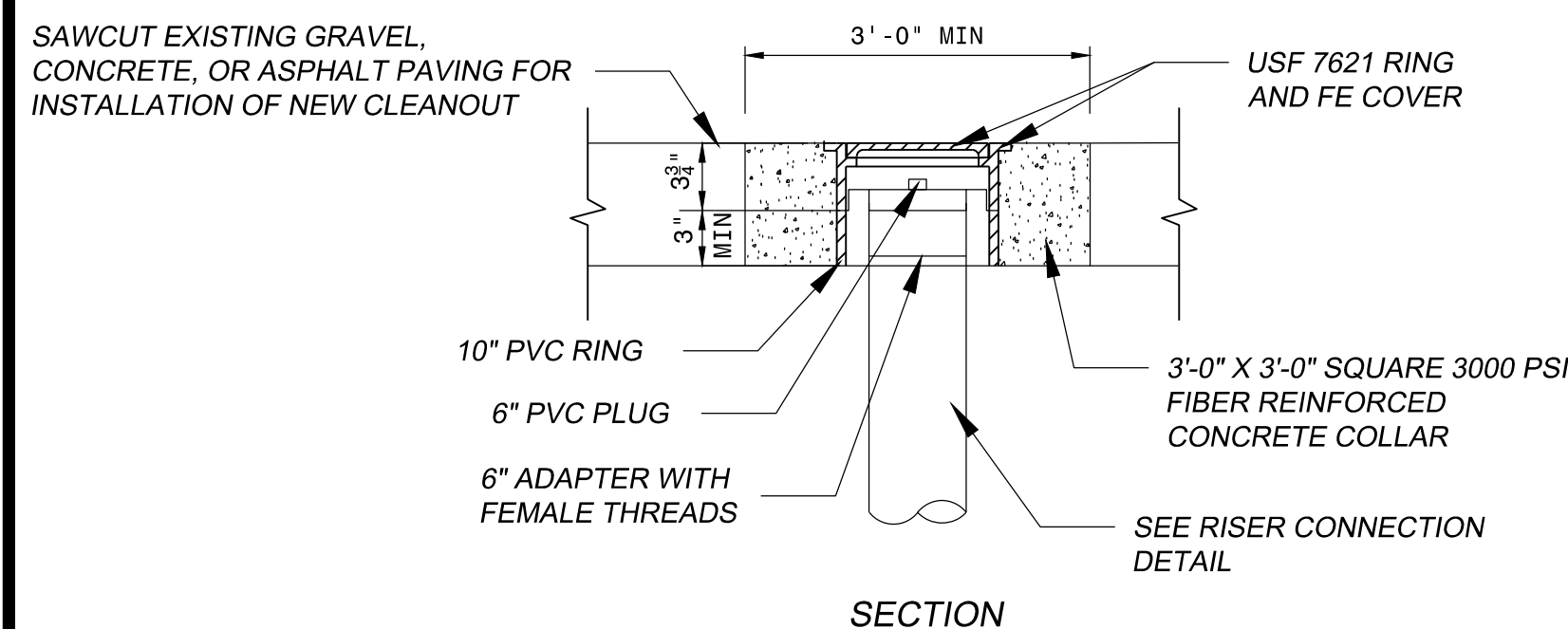
GRAVITY SEWER PIPE BEDDING



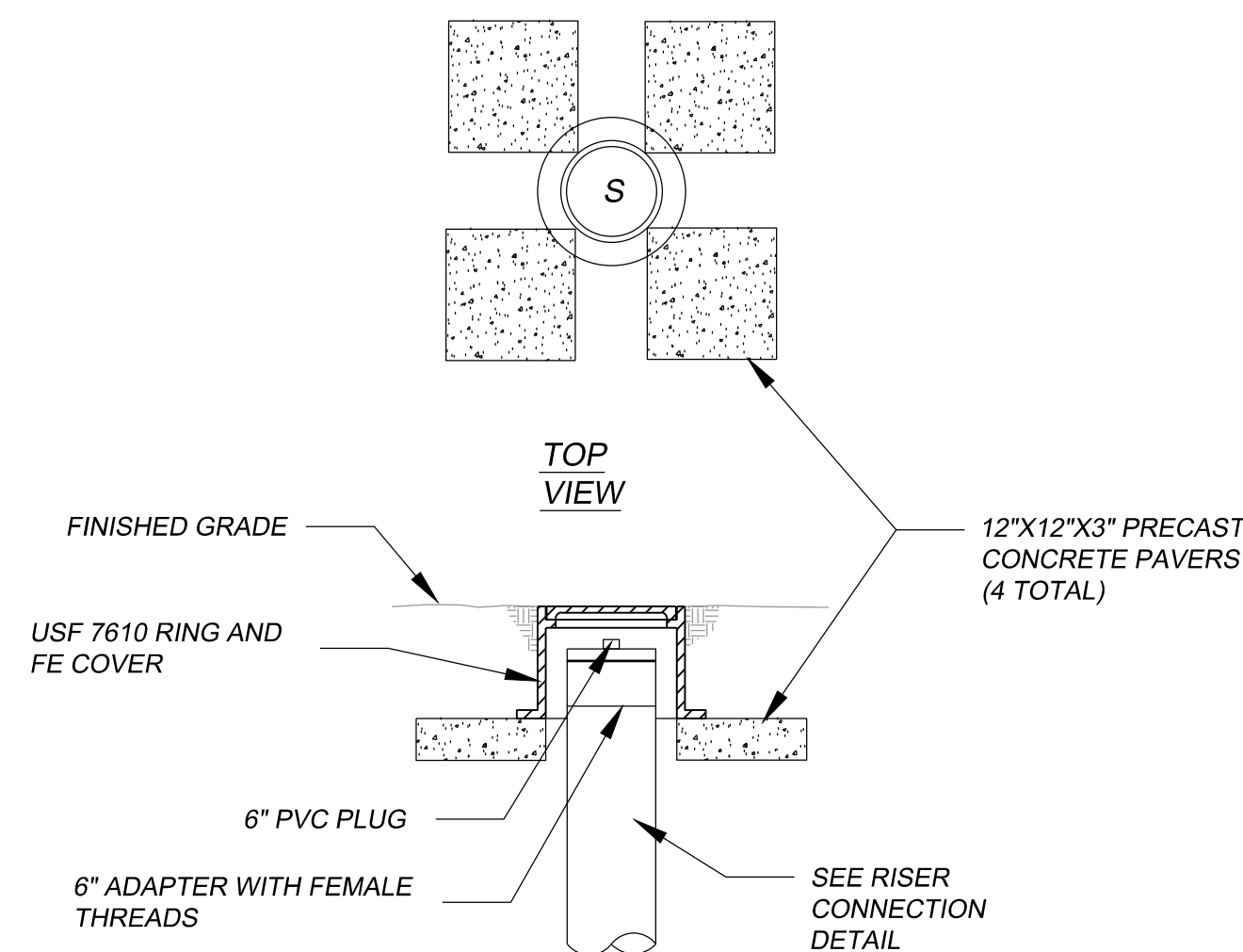
NOTES:

1. MATCH EXISTING PAVEMENT DESIGN WHERE MORE STRINGENT.
2. COMPLY WITH SCDOT OR LOCAL ROADWAY REQUIREMENTS AND PERMITS.
3. EXCAVATIONS GREATER THAN A DEPTH OF 5'-0" SHALL BE BACKFILLED WITH STONE TO THE 5'-0" DEPTH, THEN BACKFILLED WITH FLOWABLE FILL.
4. EXCAVATIONS LESS THAN OR EQUAL TO 5'-0" SHALL BE BACKFILLED WITH FLOWABLE FILL TO A POINT 12" ABOVE THE PIPE CROWN.
5. APPLY BONDING AGENT ON ALL SURFACES IN CONTACT WITH NEW ASPHALT.
6. ROLL ASPHALT SMOOTH, UNIFORM AND LEVEL WITH EXISTING PAVEMENT.
7. ENSURE EDGE OF TRENCH BEYOND SAW CUT SURFACE IS NOT UNDERMINED.

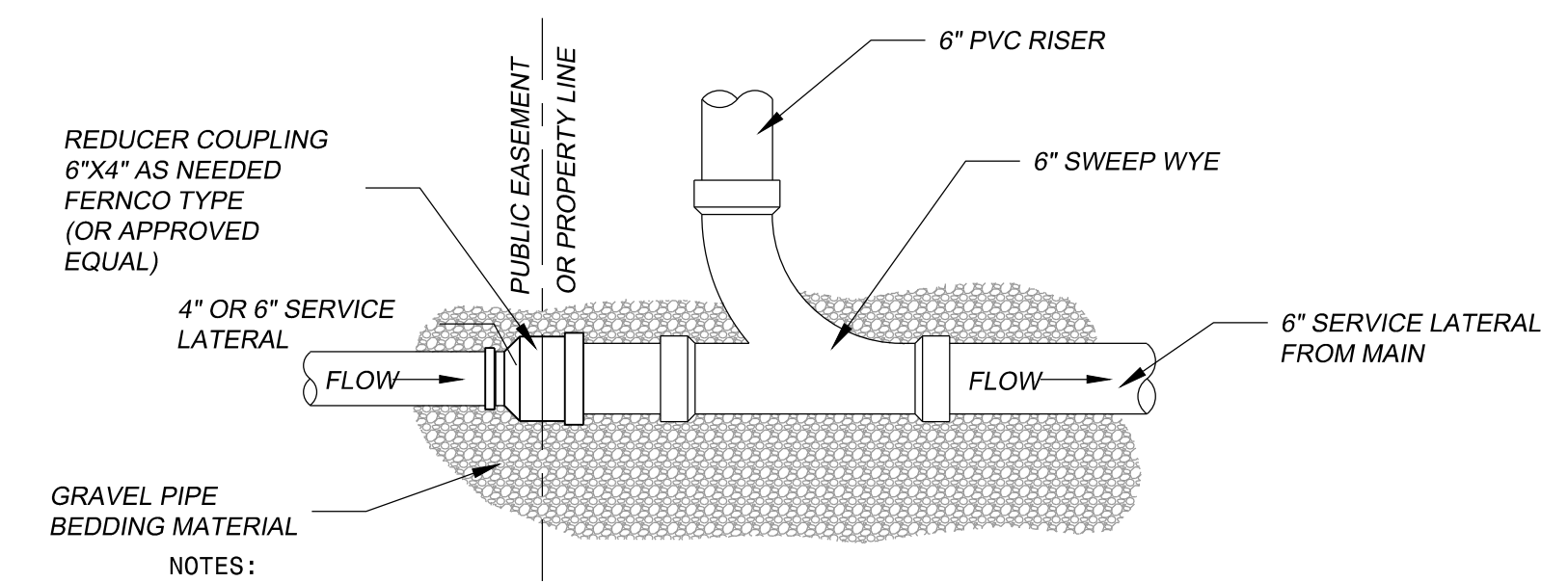
SCDOT OR EQUAL ASPHALT PAVEMENT REPLACEMENT IN ALL ROADWAYS



CLEANOUT ASSEMBLY DETAIL FOR SIDEWALK OR PAVED AREA INSTALLATION



CLEANOUT ASSEMBLY DETAIL FOR GRASSED AREA INSTALLATION



- NOTES:
1. ALL FITTINGS AND LINES TO BE SCHEDULE 40 PVC, SOLVENT WELD (SDR-35).
 2. SEE CITY SPECIFICATION 02761 FOR MORE DETAIL.
 3. REPAIRS ON CLEANOUTS LOCATED WITHIN THE CITY RIGHT OF WAY SHALL INCLUDE BRINGING CLEANOUT CAP TO GRADE.
 4. PROVIDE ADDITIONAL BENDS AS NEEDED TO AVOID CONFLICTS AND MAKE CONNECTION.
 5. PROVIDE ALL ADAPTERS AND COUPLINGS REQUIRED TO CONNECT TO EXISTING SERVICE LATERAL, REGARDLESS OF SIZE OR MATERIAL.
 6. FOR NEW SERVICE LATERAL INSTALLATION FROM MAIN LINE PROVIDE A MINIMUM OF 0.01 FT/FT SLOPE UNLESS OTHERWISE REQUIRED BY STATE OR LOCAL CODES.
 7. COMPLY WITH ALL PERTINENT SECTIONS OF THE CITY OF COLUMBIA STANDARD SPECIFICATIONS.

RISER CONNECTION DETAIL

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Rev: 1.6 Date: 04/10/2019

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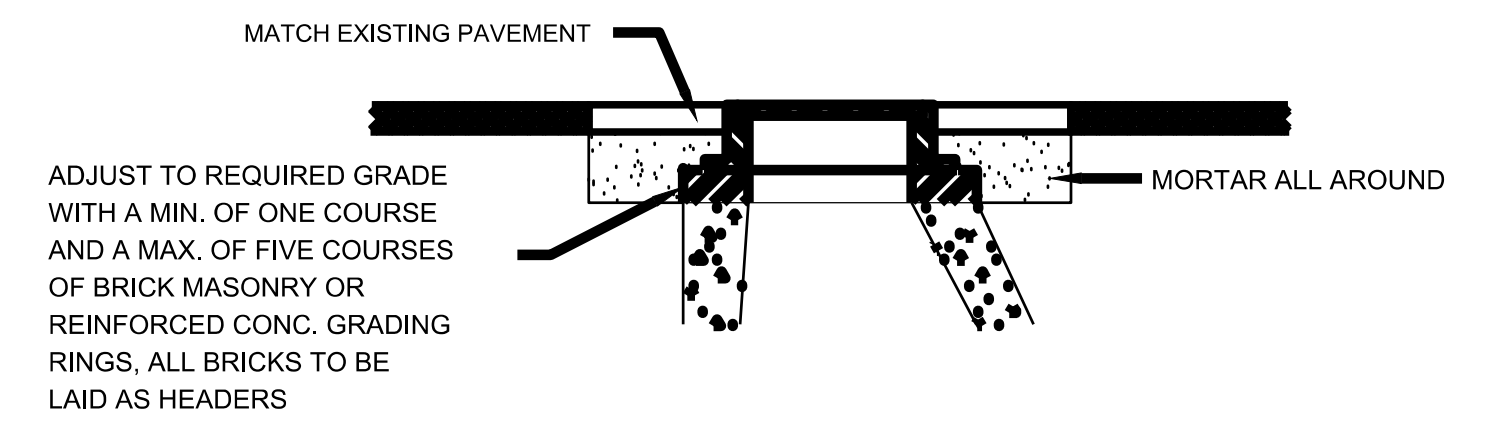
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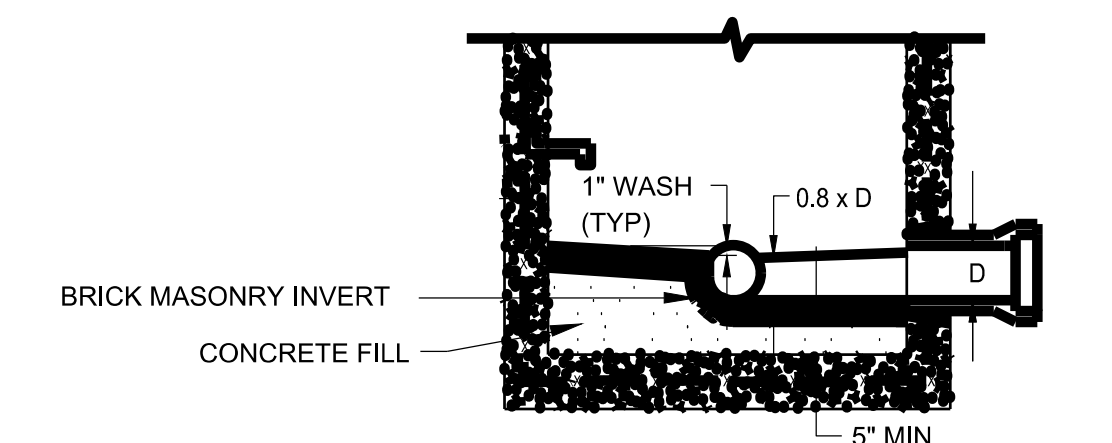
CONSTRUCTION DETAILS

Sheet Number:

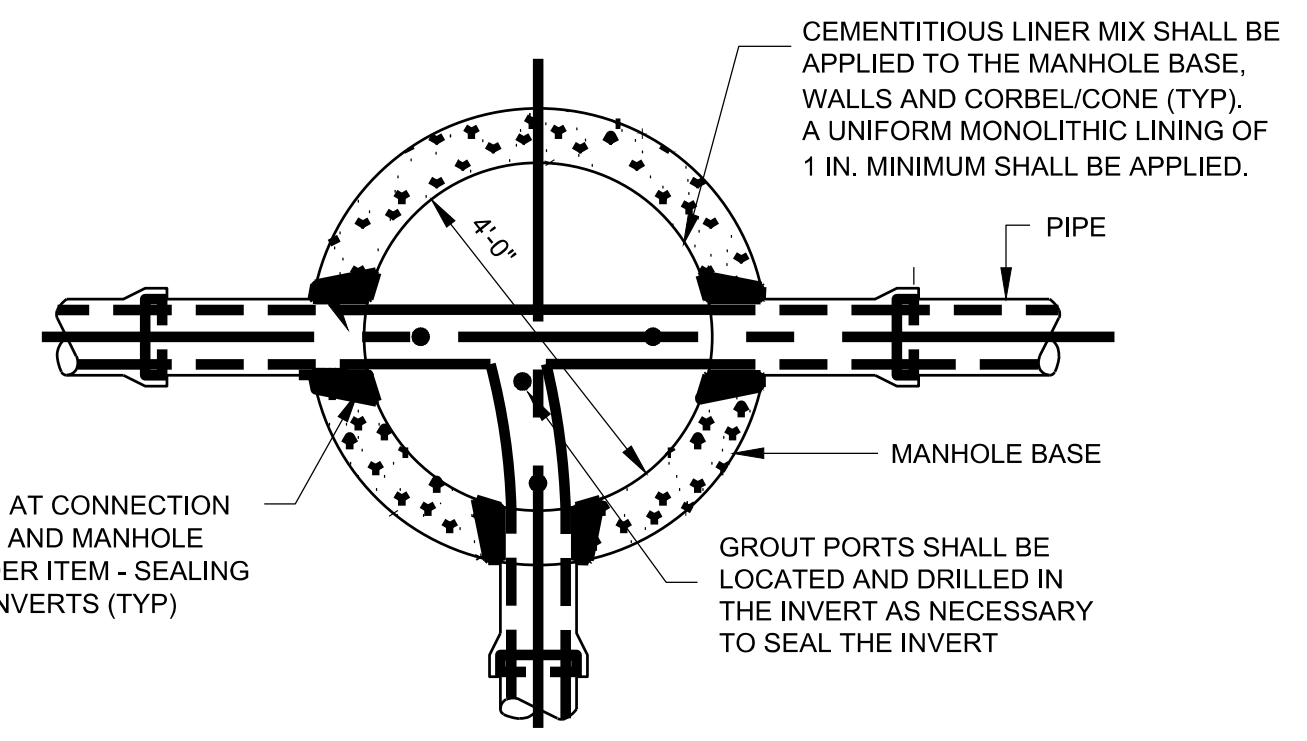
C401



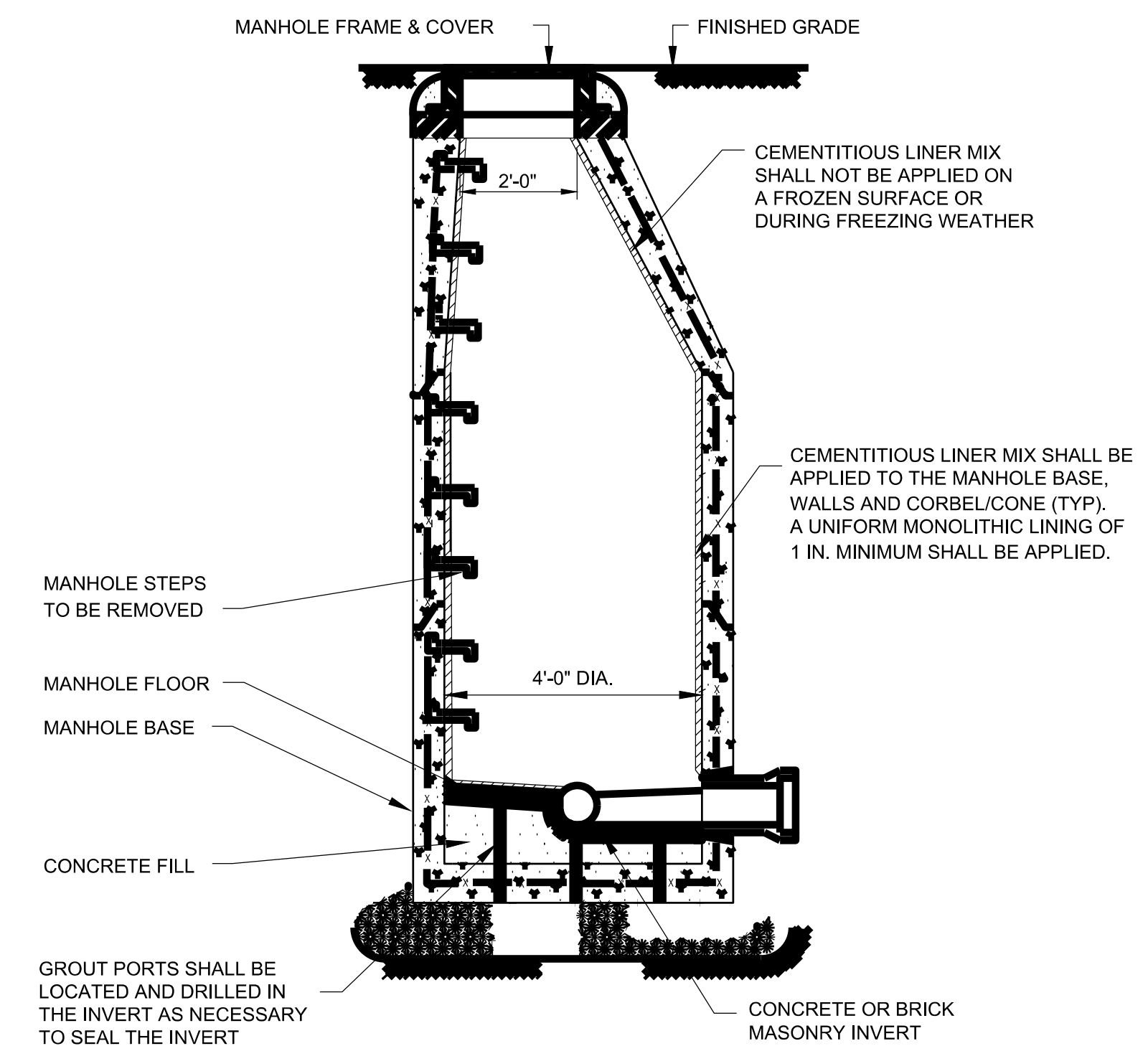
FURNISH AND INSTALL MANHOLE FRAME AND COVER PAVEMENT REPLACEMENT DETAIL



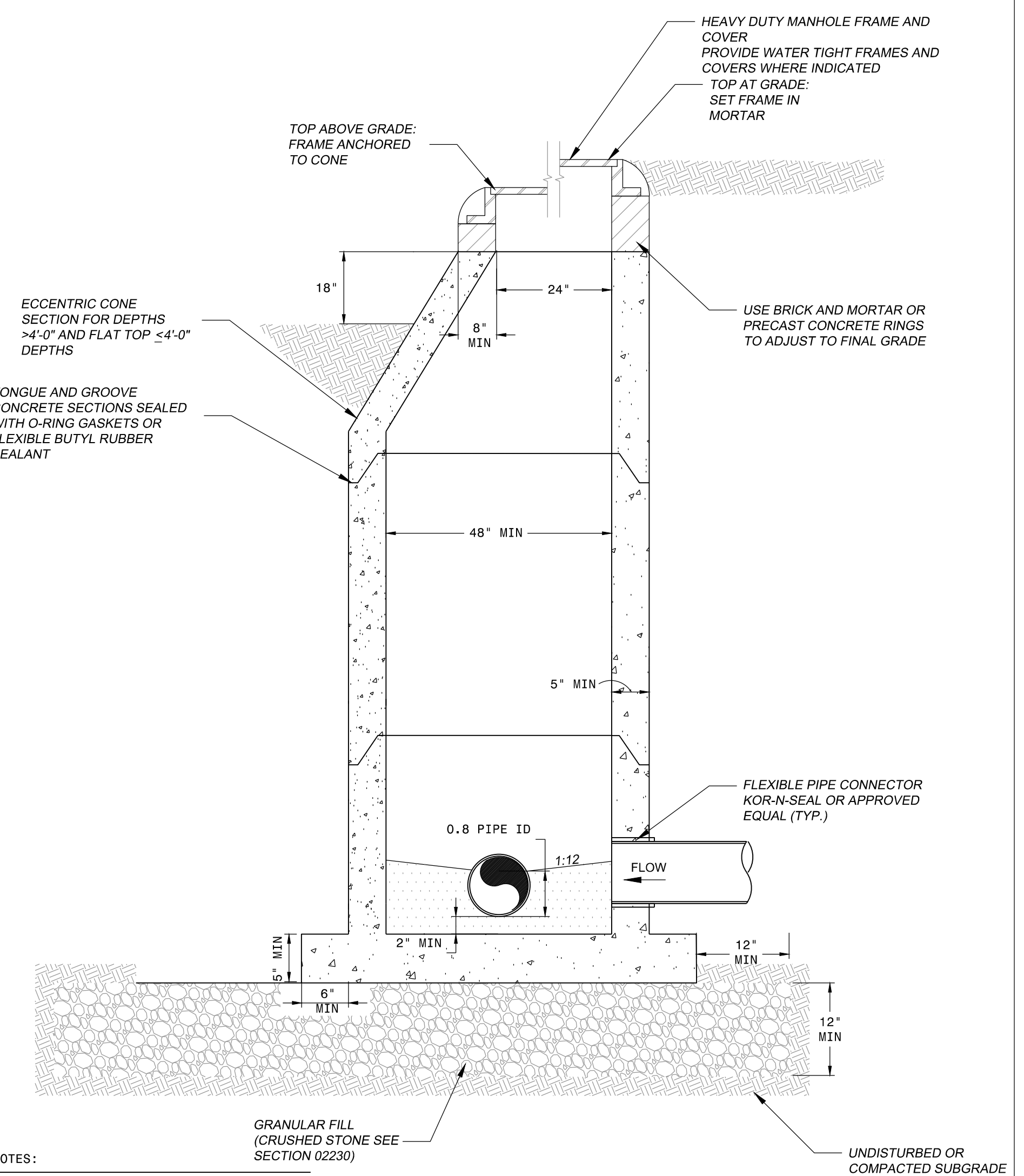
SEWER MANHOLE BENCH AND INVERT DETAIL



4'-0" DIA. MANHOLE SEALING PLAN



BRICK, BLOCK OR CONCRETE MANHOLE SEALING DETAIL



PRECAST CONCRETE MANHOLE DETAIL

- NOTES:
- REFER TO SECTION 02605 FOR MORE INFORMATION.
 - PROVIDE 7" EXTERIOR JOINT COLLAR ON ALL JOINTS. PROVIDE MACWRAP BY MAR-MAC.



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W&S File No.:

Drawing Title:

SCDOT STANDARD
TRAFFIC CONTROL DETAILS

Sheet Number:

C403

