



**Request for Bid
Group 1 CIPP Addendum No. 1 to
RFB No. 401712.71.0403
April 1, 2019**



The following information encompasses Addendum No. 1 for the above referenced RFB. Bidders shall fully consider and acknowledge this Addendum in the preparation and submittal of its formal Bid. Failure to do so may result in the rejection of the Bid.

Section 1 – Mandatory Pre-Bid Meeting Sign-In Sheet

Section 2 – Updated 00370 Commercial Bid Form

Section 3 – Updated Technical Specifications

All other conditions and requirements remain unchanged.

**Section 1
Mandatory Pre-Bid Meeting Sign-In Sheet**



SIGN-IN SHEET

Project: Group 1 CIPP	Meeting Date: March 28, 2019
Meeting: Pre - Bid Meeting	Time: 9:30 AM to 11:00 AM
Facilitator: Morgan Unger	Place/Room: Benjamin Hooks Library Conference Room

Name	Company	Phone	E-Mail
Craig Shaw	SAK Construction LLC	636-385-1000	crshaw@sakon.com
Eddie Moore	Cambridge Con	678-595-2741	Emoore@ccmnc.us
Aaron Jefferson	The Renee Group	470-252-3851	ajefferon@thereneegroup.com
Tom Goyer	Site Solutions LLC	901-315-3497	tgoyer@thesitecontractor.com
Rich Walker	PCI	901-671-6810	Richard.Walker@PG&I.com
Derek Willis	AWPM		dwillis@allwoodmail.com
Wiley Richards	WRT	901-457-1291	WileyRichards@MSN.COM
Terrell Richards	WRT	901-331-1780	terrellrichards250@gmail.com
DAN WIESEMAN	SPECTRA TECH	636-785-6855	dwisezman@spectratechllc.com
Justin Morgan	Granite Inliner	812-653-4289	justin.morgan@gcino.com
David Massey	Sunbelt Rentals	901-333-2690	pcm26h@sunbeltrentals.com
Patricia Cordova	Small Business Services	901-348-0590	office@smallbusinessserv.net
Joe L. Collins	OC2	731-646-8772	Collins_j_s@bd.com
DAVE VANDEWATER	INSITUFORM	615-427-3809	dvandewater@aegion.com
Mike Leonard	Xylem	662-420-9999	Michael.Lleonard@xylem.com
Delano Collins	Urban Group DMV	240-415-2000	UrbanGroupDMV@gmail.com
Linear Earth		770-609-8580	cnorton@linearearth.com



Mandatory Pre-Bid Meeting Attendee List



Program: SARP10	Meeting Date: March 28, 2019
Project: Group 1 CIPP	Time: 9:30AM
Facilitator: Morgan Unger	Place/Room: Benjamin Hooks Library

Name	Company	Phone	E-Mail
Craigor Shaw	SAK Construction	636-385-1000	crshaw@sakon.com
Eddie Moore	Cambridge Construction	678-595-2741	emoore@ccminc.us
Aaron Jefferson	The Renee Group	470-282-3851	ajefferson@thereneegroup.com
Tom Goyer	Site Solutions LLC	901-315-3497	tgoyer@thesitecontractor.com
Rich Walker	PCI	901-671-6810	richard.walker@pcg.com
Derek Willis	AWPM		dwillis@allworldmail.com
Wiley Richards	W & T Contracting	901-497-1291	wileyrichards@msn.com
Terrell Richards	W&T Contracting	901-331-1780	terrellrichards250@gmail.com
Dan Wiesemann	Spectra Tech	636-485-6895	dwiesemann@spectratechlining.com
Justin Morgan	Granite Inliner	812-653-4289	justin.morgan@gcinc.com
David Massey	Sunbelt Rentals	901-333-2690	pcm261@sunbeltrentals.com
Patricia Cordova	Small Business Services	901-348-0590	office@smallbusinessserv.net
Joe J. Collins	OCI	731-616-8922	collinsjj@overlandcontracting.com
Dave Vandewater	Insituform	615-427-3809	dvandewater@aegion.com
Mike Leonard	Xylem	662-420-9797	michael.leonard@xyleminc.com
Delano Collins	Urban Group DMV	240-415-2000	urbangroupdmv@gmail.com
Cameron Norton	Linear Earth	770-609-8580	cnorton@linearearth.com
Morgan Unger	SARP10	314-825-3888	ungerm2@bv.com
Josh Grabowski	SARP10	870-514-1719	jgrabowski@allworldmail.com
Scott McAmis	SARP10	865-809-8618	scott.mcamis@greshamsmith.com



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**Section 2
Updated 00370 Commercial Bid Form**

Table 00370.3.1 - Unit Price Bid Form

Bidder should refer to Section 00270, Instructions to Bidders, when completing this Bid Form. Bidder shall complete this form entirely and return it with Bidder's Bid.					
Bid Submitted by: (Company Name)					
00370.3 Bid Pricing Information					
00370.3.1 Unit Pricing					
Bidder proposes to complete the RFB Work based on firm, fixed, unit prices (US dollars), which prices multiplied by the final Work quantities would represent the full consideration to Bidder for its complete and satisfactory performance of the Work in compliance with all the terms and conditions of the RFB Documents. The Unit Prices in this Table include the cost of all the work which is required or implied by the RFB documents or which may be inferred therefrom, and which is customarily provided in furnishing a complete and finished work item of its kind. Further, any and all alterations, modifications, and adjustments to the work item, which is reasonably foreseeable or customarily encountered in providing and installing equipment, material, and services of the work item kind, will be performed without additional compensation.					
In the event of a Purchaser-approved change in the scope of Work for which a unit price from this Table is not applicable, as determined by the Purchaser, the Subcontractor shall provide a new unit price for review and acceptance by the Purchaser. Subcontractor shall provide all information requested by the Purchaser to substantiate the value of the new unit price.					
00370.3.1.1 Unit Prices					Bidder Response
Item Number	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Extension Price
Manhole Replacement/Installation					
02531-4.01.A	Manhole Replacement with Precast Manhole	Vertical Ft	50		\$ -
02531-4.01.B	Precast Manhole Installation	Vertical Ft	80		\$ -
02531-4.01.C	Pavement Backfill for Manholes	Cubic Yds	25		\$ -
02531-4.01.D	Traffic Control per MH Installation/Replacement	Crew Day	12		\$ -
Manhole Rehabilitation					
02533-4.01.A	Manhole Rehabilitation - Cementitious Coating	Vertical Foot	1,700 1,685		\$ -
02533-4.01.B-1	Sewer Manhole Inside Drop Construction (<5')	Each	25		\$ -
02533-4.01.B-2	Sewer Manhole Inside Drop Construction (5'-10')	Each	5		\$ -
02533-4.01.B-3	Sewer Manhole Inside Drop Construction (10'-20')	Each	1		\$ -
02533-4.01.C	Invert and Bench Replacement	Each	90		\$ -
02533-4.01.E	Traffic Control for Manhole Rehabilitation	Crew Day	130 128		\$ -
CIPP					
02535-4.01.A-1.1	8" Diameter CIPP (0-10 feet)	Linear Foot	26,544		\$ -
02535-4.01.A-1.2	8" Diameter CIPP (10-20 feet)	Linear Foot	9,696		\$ -
02535-4.01.A-2.1	10" Diameter CIPP (0-10 feet)	Linear Foot	4,948		\$ -
02535-4.01.A-2.2	10" Diameter CIPP (10-20 feet)	Linear Foot	4,194		\$ -
02535-4.01.A-3.1	12" Diameter CIPP (0-10 feet)	Linear Foot	755		\$ -
02535-4.01.A-3.2	12" Diameter CIPP (10-20 feet)	Linear Foot	412		\$ -
02535-4.01.A-3.3	12" Diameter CIPP (>20 feet)	Linear Foot	1		\$ -
02535-4.01.A-4.1	15" Diameter CIPP (0-10 feet)	Linear Foot	2,566		\$ -
02535-4.01.A-4.2	15" Diameter CIPP (10-20 feet)	Linear Foot	643		\$ -
02535-4.01.A-5.1	18" Diameter CIPP (0-10 feet)	Linear Foot	368		\$ -
02535-4.01.A-5.2	18" Diameter CIPP (10-20 feet)	Linear Foot	493		\$ -
02535-4.01.A-6.1	24" Diameter CIPP (0-10 feet)	Linear Foot	950		\$ -
02535-4.01.A-6.2	24" Diameter CIPP (10-20 feet)	Linear Foot	764		\$ -
02535-4.01.A-7.1	27" Diameter CIPP (0-10 feet)	Linear Foot	524		\$ -
02535-4.01.A-8.1	36" Diameter CIPP (0-10 feet)	Linear Foot	257		\$ -
02535-4.01.A-8.2	36" Diameter CIPP (10-20 feet)	Linear Foot	650		\$ -
02535-4.01.B-1	Bypass Pumping (12" Diameter)	Each	2		\$ -
02535-4.01.B-2	Bypass Pumping (15" Diameter)	Each	10		\$ -
02535-4.01.B-3	Bypass Pumping (18" Diameter)	Each	2		\$ -
02535-4.01.B-4	Bypass Pumping (24" Diameter)	Each	7		\$ -
02535-4.01.B-5	Bypass Pumping (27" Diameter)	Each	2		\$ -
02535-4.01.B-6	Bypass Pumping (36" Diameter)	Each	4		\$ -
02535-4.01.C	Lateral Reinstatement	Each	684		\$ -
02535-4.01.D	Locate and Expose Mainline Terminus	Each	9		\$ -
02535-4.01.E	Traffic Control for CIPP	Crew Day	120		\$ -

Item Number	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Extension Price
Mainline Point Repair					
02540-4.01.A-1.1	Sewer Point Repair, 6" Through 10" Pipe (<10' Deep)	Each	139		\$ -
02540-4.01.A-1.2	Each Additional Linear Foot Beyond the 10 Feet Minimum, For Sewer Point Repair, 6" Through 10" Pipe (<10' Deep)	Linear Foot	80		\$ -
02540-4.01.A-2.1	Sewer Point Repair, 6" Through 10" Pipe (10.1'-15' Deep)	Each	26		
02540-4.01.A-2.2	Each Additional Linear Foot Beyond the 10 Feet Minimum, For Sewer Point Repair, 6" Through 10" Pipe (10.1'-15' Deep)	Linear Foot	5		\$ -
02540-4.01.A-3.1	Sewer Point Repair, 6" Through 10" Pipe (15.1'-20' Deep)	Each	4		\$ -
02540-4.01.A-3.2	Each Additional Linear Foot Beyond the 10 Feet Minimum, For Sewer Point Repair, 6" Through 10" Pipe (15.1'-20' Deep)	Linear Foot	40		\$ -
02540-4.01.A-4.1	Sewer Point Repair, 12" Through 18" Pipe (<10' Deep)	Each	7		\$ -
02540-4.01.A-4.2	Each Additional Linear Foot Beyond the 10 Feet Minimum, For Sewer Point Repair, 12" Through 18" Pipe (<10' Deep)	Linear Foot	15		\$ -
02540-4.01.A-5.1	Sewer Point Repair, 12" Through 18" Pipe (10.1'-15' Deep)	Each	1		\$ -
02540-4.01.A-5.2	Each Additional Linear Foot Beyond the 10 Feet Minimum, For Sewer Point Repair, 12" Through 18" Pipe (10.1'-15' Deep)	Linear Foot	10		\$ -
02540-4.01.A-6.1	Sewer Point Repair, 12" Through 18" Pipe (15.1'-20' Deep)	Each	1		\$ -
02540-4.01.A-6.2	Each Additional Linear Foot Beyond the 10 Feet Minimum, For Sewer Point Repair, 12" Through 18" Pipe (15.1'-20' Deep)	Linear Foot	10		\$ -
02540-4.01.A-7.1	Sewer Point Repair, 21" Through 27" Pipe (<10' Deep)	Each	3		\$ -
02540-4.01.A-7.2	Each Additional Linear Foot Beyond the 10 Feet Minimum, For Sewer Point Repair, 21" Through 27" Pipe (<10' Deep)	Linear Foot	10		\$ -
02540-4.01.A-8.1	Sewer Point Repair, 21" Through 27" Pipe (10.1'-15' Deep)	Each	1		\$ -
02540-4.01.A-8.2	Each Additional Linear Foot Beyond the 10 Feet Minimum, For Sewer Point Repair, 21" Through 27" Pipe (10.1'-15' Deep)	Linear Foot	5		\$ -
02540-4.01.B	Each Service Connection and Associated Lateral Pipe Included In a Sewer Point Repair, All Depths, All Diameters	Each	21		\$ -
02540-4.01.C	Traffic Control per Point Repair	Crew Day	200		\$ -
02540-4.01.D	Pavement Backfill for Point Repair	Cubic Yards	2,584		\$ -
02540-4.01.E	Hydroexcavation/Hand Digging	Each	180		\$ -
Post-Rehabilitation PACP Inspection					
02541-4.01.A	Post Rehab CCTV Inspection For All Diameters (<24")	Linear Foot	70,600		\$ -
02541-4.01.B	Heavy Cleaning All Diameters	Linear Foot	4,000		\$ -
02542-4.01.A	CCTV & Sonar Inspection for All Diameters (24" and Larger Diameter)	Linear Foot	3,100		\$ -
Post-Rehabilitation MACP Inspection					
02544-4.01.A	GPS Coordinates of Manhole Cover	Each	283 281		\$ -
02544-4.01.C-1	Post Rehab MACP Level 2 Manhole Inspections	Each	273 271		\$ -
02544-4.01.C-2	Post Rehab MACP Level 2 Manhole Inspections with 3D Scan	Each	10		\$ -
Site Preparation and Restoration					
02630-4.01.A	Site Prep and Restoration	Lump Sum	1		\$ -
Pavement and Incidentals					
02950-4.01.A-1	Asphaltic Concrete Pavement Removal and Replacement	Square Yard	1,500		\$ -
02950-4.01.A-2	Concrete Pavement Removal and Replacement	Square Yard	500		\$ -
02950-4.01.B	Concrete Sidewalk Removal and Replacement	Square Yard	1,600		\$ -
02950-4.01.C	Concrete Curb and Gutter Removal and Replacement	Linear Foot	400		\$ -
02950-4.01.D	Gravel Driveway and Gravel Area Removal and Replacement With Crushed Stone	Ton	10		\$ -
	Performance Bond	Each	1		\$ -
	SRF Signs	Each	2		\$ -
Total Estimated Unit Price Value					\$ -



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Section 3
Updated Technical Specifications

*Bid Schedules are provided here. Due to file size, updated map sets are **not included in this PDF.**
They are available for view and/or download on the SARP10 website.

<http://www.sarp10.com/projects/>

Group 1 Rehab Project - Manhole Bid Schedule - CIPP Contract

MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
WS011381	ND04	48	Install Inside Drop	None	26.0	Install Drop = 10 ft
WS010348.03	NE02	48	Repair Bench/Channel	None	8.7	
WS010211	NE03	48	Cement Coating: Entire MH	None	7.3	
WS010310	NF03	48	Cement Coating: Entire MH	Install Inside Drop	12.1	Install Drop = 5 ft
WS010170	NF04	48	Cement Coating: Entire MH	None	15.0	
WS011034	NF04	48	Repair Bench/Channel	None	11.6	
WS011070.01	NF04	48	Cement Coating: Entire MH	None	16.8	
WS011375	NF04	48	Cement Coating: Entire MH	None	Not Specified	
WS011049	NG04	48	Cement Coating: Entire MH	None	7.5	
WS011017	NH06	48	Cement Coating: Entire MH	None	5.5	
WS011130.01	NH06	48	Cement Coating: Entire MH	None	17.7	
WS011197	NH07	48	Cement Coating: Entire MH	None	17.0	
WS011205	NH08	48	Cement Coating: Entire MH	None	9.0	
WS012003	NH09	48	Cement Coating: Entire MH	None	4.4	
WS010269	NI03	48	Cement Coating: Entire MH	None	6.8	
WS011089	NI06	48	Cement Coating: Entire MH	None	15.3	
WS010132	NJ02	48	Repair Bench/Channel	None	12.8	
WS010363	NJ02	48	Repair Bench/Channel	Cement Coating: Entire MH	9.6	
WS010363.01	NJ02	48	Cement Coating: Entire MH	None	8.6	
WS010363.02	NJ02	48	Cement Coating: Entire MH	None	8.0	
WS010363.05	NJ02	48	Cement Coating: Entire MH	None	4.2	
FS022699	NJ03	48	Repair Bench/Channel	Cement Coating: Entire MH	9.3	
WS011365	NJ05	48	Repair Bench/Channel	None	3.4	
WS011141	NJ06	48	Cement Coating: Entire MH	None	10.4	
WS011302	NJ08	48	Cement Coating: Entire MH	None	11.2	
WS011263	NJ09	48	Repair Bench/Channel	Cement Coating: Entire MH	10.2	
WS010363.08	NK02	48	Cement Coating: Entire MH	None	3.6	
WS010363.10	NK02	48	Cement Coating: Entire MH	None	5.8	

Group 1 Rehab Project - Manhole Bid Schedule - CIPP Contract

MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
WS011351	NK05	48	Cement Coating: Entire MH	None	9.2	
WS011301	NK08	48	Cement Coating: Entire MH	None	12.1	
FS022729	NL03	48	Cement Coating: Entire MH	None	5.5	
FS022736	NL04	48	Cement Coating: Entire MH	None	9.8	
FS022671	NM02	48	Cement Coating: Entire MH	None	Not Specified	
FS022673	NM02	48	Cement Coating: Entire MH	None	6.2	
FS022674	NM03	48	Cement Coating: Entire MH	None	6.2	
FS022675	NM03	48	Cement Coating: Entire MH	None	6.6	
FS022676	NM03	48	Cement Coating: Entire MH	None	7.7	
FS022742	NM03	48	Repair Bench/Channel	Cement Coating: Entire MH	7.3	
WS010541	NN03	48	Cement Coating: Entire MH	None	7.5	
WS010505	NO03	48	Cement Coating: Entire MH	None	9.0	
WS010604	NO03	48	Cement Coating: Entire MH	None	10.3	
WS010522	NQ03	48	Repair Bench/Channel	Cement Coating: Entire MH	8.3	
FS045251	SA16	48	Cement Coating: Entire MH	None	6.5	
FS045201.02	SA19	48	Repair Bench/Channel	Cement Coating: Entire MH	9.9	
FS045254.03	SB16	48	Install New MH	None	8.0	
FS045131	SB18	48	Repair Bench/Channel	Cement Coating: Entire MH	8.1	
FS045223	SB18	48	Cement Coating: Entire MH	Install Inside Drop	9.8	
FS045224	SB18	48	Repair Bench/Channel	Cement Coating: Entire MH	10.3	
FS045226	SB18	48	Cement Coating: Entire MH	None	11.6	
FS045451	SB18	48	Repair Bench/Channel	Cement Coating: Entire MH	9.7	
FS045201.03	SB19	48	Cement Coating: Entire MH	None	8.9	
FS045202	SB19	48	Cement Coating: Entire MH	None	8.9	
FS045452	SB19	48	Cement Coating: Entire MH	None	7.0	
FS045132	SC18	48	Repair Bench/Channel	None	9.6	

Group 1 Rehab Project - Manhole Bid Schedule - CIPP Contract

MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
FS045133.02	SC18	48	Cement Coating: Entire MH	Install Inside Drop	6.3	
FS045203.01	SC19	48	Repair Bench/Channel	None	10.7	
FS045204	SC19	48	Cement Coating: Entire MH	None	11.8	
FS045136	SD18	48	Install Inside Drop	None	14.1	Install Drop = 9 ft
FS045548.01	SD19	48	Cement Coating: Entire MH	None	18.1	
FS045674	SF18	48	Cement Coating: Entire MH	None	4.8	
NN021428.01	SF18	48	Repair Bench/Channel	None	3.3	
NN020742	SF19	48	Cement Coating: Entire MH	None	6.8	
NN020719	SG16	48	Repair Bench/Channel	None	8.4	
NN020710	SG17	48	Repair Bench/Channel	Install Inside Drop	11.9	Install Drop = 3 ft
NN021408	SG17	48	Cement Coating: Entire MH	None	12.1	
NN021426	SG17	48	Cement Coating: Entire MH	None	15.8	
NN021426.01	SG17	48	Cement Coating: Entire MH	None	9.7	
NN021427	SG18	48	Cement Coating: Entire MH	None	10.6	
NN020737	SG19	48	Cement Coating: Entire MH	None	10.9	
NN020946	SG19	48	Repair Bench/Channel	None	9.0	
NN020765	SH16	48	Install New MH	None	10.0	
NN020583	SH16	48	Repair Bench/Channel	None	7.0	
NN020603	SH16	48	Cement Coating: Entire MH	None	9.7	
NN020577	SH17	48	Repair Bench/Channel	Cement Coating: Entire MH	9.7	
NN020582	SH17	48	Repair Bench/Channel	None	6.7	
NN020582.01	SH17	48	Repair Bench/Channel	None	5.9	
NN020708	SH17	48	Cement Coating: Entire MH	None	10.5	
NN020708.01	SH17	48	Repair Bench/Channel	None	5.9	
NN020709	SH17	48	Cement Coating: Entire MH	None	9.2	
NN020767	SH17	48	Cement Coating: Entire MH	None	7.0	
NN021079	SH17	48	Repair Bench/Channel	Cement Coating: Entire MH	6.1	
NN020942	SH18	48	Install Inside Drop	None	11.6	Install drop = 6 ft
NN020736	SH19	48	Repair Bench/Channel	None	11.0	
NN020920	SH19	48	Cement Coating: Entire MH	None	13.5	
NN020921	SH19	48	Cement Coating: Entire MH	None	11.8	
NN020518	SI16	48	Repair Bench/Channel	None	6.9	

Group 1 Rehab Project - Manhole Bid Schedule - CIPP Contract

MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
NN020602.01	SI16	48	Cement Coating: Entire MH	None	7.9	
NN021082	SI17	48	Install New MH	None	10.0	
NN020573	SI17	48	Cement Coating: Entire MH	None	7.2	
NN020575.01	SI17	48	Cement Coating: Entire MH	None	5.9	
NN020576	SI17	48	Cement Coating: Entire MH	Install Inside Drop	11.0	Install Drop = 3 ft
NN020586	SI17	48	Structurally Repair MH	None	6.9	
NN020586.01	SI17	48	Structurally Repair MH	None	7.1	
NN020587	SI17	48	Structurally Repair MH	None	6.1	
NN020766	SI17	48	Cement Coating: Entire MH	None	6.2	
NN020781	SI18	48	Cement Coating: Entire MH	None	8.9	
NN020938	SI18	48	Cement Coating: Entire MH	None	9.4	
NN020595	SI19	48	Repair Bench/Channel	None	12.0	
NN020596	SI19	48	Repair Bench/Channel	None	16.9	
NN020514	SJ16	48	Repair Bench/Channel	Cement Coating: Entire MH	6.8	
NN020516	SJ16	48	Repair Bench/Channel	None	7.9	
NN020542	SJ16	48	Repair Bench/Channel	None	8.9	
NN020546	SJ16	48	Cement Coating: Entire MH	None	6.8	
NN021006	SJ16	48	Cement Coating: Entire MH	None	11.2	
NN020572	SJ17	48	Repair Bench/Channel	Cement Coating: Entire MH	6.3	
NN020592.01	SJ18	48	Cement Coating: Entire MH	None	7.8	
NN020830	SJ18	48	Cement Coating: Entire MH	None	12.0	
NN020872	SJ18	48	Cement Coating: Entire MH	None	10.1	
NN020873	SJ18	48	Cement Coating: Entire MH	None	10.2	
NN020902	SJ18	48	Cement Coating: Entire MH	None	15.4	
NN020865	SJ19	48	Cement Coating: Entire MH	None	10.2	
NN020890.01	SJ19	48	Cement Coating: Entire MH	None	10.8	
NN022359	SK12	48	Cement Coating: Entire MH	None	10.4	
NN022312.01	SK13	48	Cement Coating: Entire MH	None	6.5	
NN020508	SK16	48	Repair Bench/Channel	None	7.0	
NN020509	SK16	48	Repair Bench/Channel	None	6.5	

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MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
NN020539.04	SK16	48	Cement Coating: Entire MH	None	4.2	
NN020556	SK16	48	Structurally Repair MH	None	7.4	
NN020690	SK16	48	Cement Coating: Entire MH	None	5.0	
NN020611	SK17	48	Cement Coating: Entire MH	Install Inside Drop	11.4	Install Drop = 3 ft
NN020613	SK17	48	Repair Bench/Channel	Cement Coating: Entire MH	13.8	
NN020843	SK18	48	Install New MH	None	8.0	
NN020831	SK18	48	Install Inside Drop	None	12.6	Install Drop = 5.5 ft
NN020835	SK18	48	Repair Bench/Channel	None	8.4	
NN020867	SK19	48	Cement Coating: Entire MH	None	5.4	
NN020898	SK19	48	Install Inside Drop	None	9.5	Install Drop = 2 ft
NN022997	SL09	48	Repair Bench/Channel	None	8.0	
NN022365	SL12	48	Install New MH	None	10.0	
NN022403	SL12	48	Cement Coating: Entire MH	None	9.5	
NN022371	SL13	48	Install New MH	None	9.0	
NN022251	SL13	48	Install Inside Drop	None	7.5	Install Drop = 2 ft
NN022253	SL13	48	Repair Bench/Channel	None	7.3	
NN022308.04	SL13	48	Repair Bench/Channel	None	5.9	
NN022309.01	SL13	48	Cement Coating: Entire MH	None	7.5	
NN022310	SL13	48	Cement Coating: Entire MH	None	6.1	
NN022739	SL13	48	Repair Bench/Channel	Cement Coating: Entire MH	7.9	
NN022753	SL13	48	Cement Coating: Entire MH	None	8.4	
NN020159	SL14	48	Repair Bench/Channel	None	10.5	
NN020195	SL14	48	Structurally Repair MH	None	11.1	
NN022248	SL14	48	Repair Bench/Channel	None	6.1	
NN020502	SL15	48	Repair Bench/Channel	Cement Coating: Entire MH	10.5	
NN021502	SL15	48	Repair Bench/Channel	None	7.1	
NN021656	SL15	48	Repair Bench/Channel	Cement Coating: Entire MH	5.6	
NN021646	SL16	48	Repair Bench/Channel	Cement Coating: Entire MH	8.6	
NN021653	SL16	48	Cement Coating: Entire MH	None	8.2	
NN020614	SL17	48	Cement Coating: Entire MH	None	12.7	
NN020615	SL17	48	Install Inside Drop	None	9.5	Install Drop = 3 ft
NN020674	SL17	48	Cement Coating: Entire MH	None	9.2	
NN020661	SL19	48	Cement Coating: Entire MH	None	4.4	

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MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
NN020793	SL19	48	Cement Coating: Entire MH	None	9.0	
NN020819	SL19	48	Structurally Repair MH	None	10.0	
NN020820	SL19	48	Install Inside Drop	None	8.8	Install Drop = 2.5 ft
NN020834	SL19	48	Cement Coating: Entire MH	None	10.4	
NN023185	SM09	48	Cement Coating: Entire MH	None	11.6	
NN023198	SM09	48	Repair Bench/Channel	Cement Coating: Entire MH	7.3	
NN022495	SM11	48	Install New MH	None	7.0	
NN022304	SM12	48	Install New MH	None	8.0	
NN022303	SM12	48	Cement Coating: Entire MH	None	7.4	
NN022301	SM13	48	Cement Coating: Entire MH	None	6.4	
NN022738	SM13	48	Cement Coating: Entire MH	Install Inside Drop	7.3	Install Drop = 3 ft
NN020155	SM14	48	Cement Coating: Entire MH	None	9.5	
NN020194-A	SM14	48	Install Inside Drop	None	9.3	Install Drop = 5 ft
NN021506	SM15	48	Repair Bench/Channel	None	6.6	
NN021594	SM15	48	Cement Coating: Entire MH	None	4.5	
NN021629	SM16	48	Cement Coating: Entire MH	None	2.9	
NN021630	SM16	48	Repair Bench/Channel	Cement Coating: Entire MH	3.2	
NN021631	SM16	48	Repair Bench/Channel	Cement Coating: Entire MH	3.0	
NN021641	SM16	48	Repair Bench/Channel	None	3.4	
NN020671	SM17	48	Install New MH	None	10.0	
NN020621	SM17	48	Cement Coating: Entire MH	None	15.3	
NN020626	SM18	48	Cement Coating: Entire MH	None	13.3	
NN020665	SM18	48	Cement Coating: Entire MH	Install Inside Drop	11.1	Install Drop = 3 ft
NN020856	SM18	48	Repair Bench/Channel	None	5.6	
NN020858	SM18	48	Repair Bench/Channel	None	7.9	
NN020794	SM19	48	Cement Coating: Entire MH	None	10.4	
NN023312	SN08	48	Repair Bench/Channel	None	7.7	
NN022297	SN11	48	Cement Coating: Entire MH	None	5.6	
NN022298	SN11	48	Cement Coating: Entire MH	None	9.3	
NN022299.03	SN11	48	Cement Coating: Entire MH	None	4.1	
NN022397	SN11	48	Cement Coating: Entire MH	Install Inside Drop	16.0	Install Drop = 5 ft

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MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
NN022740	SN11	48	Cement Coating: Entire MH	None	10.4	
NN022928	SN11	48	Repair Bench/Channel	None	4.5	
NN020146	SN12	48	Cement Coating: Entire MH	None	12.7	
NN020184	SN12	48	Cement Coating: Entire MH	None	5.7	
NN022398	SN12	48	Cement Coating: Entire MH	None	6.0	
NN022496	SN12	48	Cement Coating: Entire MH	Install Inside Drop	11.9	Install Drop = 2 ft
NN022688	SN12	48	Cement Coating: Entire MH	None	7.9	
NN020152	SN13	48	Cement Coating: Entire MH	None	14.4	
NN020185	SN13	48	Repair Bench/Channel	None	7.0	
NN020185.01	SN13	48	Cement Coating: Entire MH	None	6.4	
NN020187	SN13	48	Repair Bench/Channel	None	7.6	
NN022473	SN13	48	Cement Coating: Entire MH	None	6.1	
NN022613	SN15	48	Cement Coating: Entire MH	None	13.0	
NN021519	SN17	48	Repair Bench/Channel	Install Inside Drop	13.9	Install Drop = 1 ft
NN021890	SN17	48	Cement Coating: Entire MH	None	9.5	
NN020627	SN18	48	Cement Coating: Entire MH	None	13.9	
NN020645	SN18	48	Cement Coating: Entire MH	None	10.2	
NN023136	SO08	48	Cement Coating: Entire MH	None	9.5	
NN023330	SO09	48	Install Inside Drop	None	10.1	Install Drop = 3 ft
NN023331	SO09	48	Cement Coating: Entire MH	None	9.0	
NN023396	SO09	48	Install Inside Drop	None	8.2	Install Drop = 3 ft
NN020139	SO11	48	Install Inside Drop	None	12.8	Install Drop = 3 ft
NN020178.01	SO11	48	Repair Bench/Channel	None	12.8	
NN020181	SO11	48	Cement Coating: Entire MH	None	6.9	
NN022294	SO11	48	Cement Coating: Entire MH	None	9.0	
NN022423	SO12	48	Install Inside Drop	None	10.3	Install Drop = 3 ft
NN022474	SO13	48	Cement Coating: Entire MH	None	5.7	
NN022652	SO13	48	Repair Bench/Channel	None	4.7	
NN022654	SO13	48	Repair Bench/Channel	Cement Coating: Entire MH	3.0	
NN022816	SO15	48	Cement Coating: Entire MH	None	6.5	

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MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
NN021522	SO16	48	Cement Coating: Entire MH	None	9.0	
NN021523	SO16	48	Cement Coating: Entire MH	None	11.1	
NN021524	SO16	48	Repair Bench/Channel	None	11.6	
NN021564	SO16	48	Cement Coating: Entire MH	None	12.3	
NN022032	SO17	48	Cement Coating: Entire MH	None	10.8	
NN020646	SO18	48	Cement Coating: Entire MH	None	9.6	
NN023206	SP07	48	Install Inside Drop	None	10.6	Install Drop = 3 ft
NN023251	SP07	48	Cement Coating: Entire MH	None	5.4	
NN023410	SP08	48	Cement Coating: Entire MH	None	8.2	
NN023329	SP10	48	Repair Bench/Channel	None	9.4	
NN020138	SP11	48	Install Inside Drop	None	11.3	Install Drop = 3 ft
NN022634	SP13	48	Cement Coating: Entire MH	None	7.4	
NN022664	SP13	48	Cement Coating: Entire MH	None	8.3	
NN022684	SP13	48	Cement Coating: Entire MH	None	7.0	
NN021526	SP16	48	Repair Bench/Channel	Cement Coating: Entire MH	6.7	
NN021528	SP16	48	Cement Coating: Entire MH	None	9.7	
NN021529	SP16	48	Cement Coating: Entire MH	None	7.4	
NN021529.01	SP16	48	Cement Coating: Entire MH	None	7.7	
NN021562	SP17	48	Repair Bench/Channel	None	7.5	
NN021796	SP18	48	Cement Coating: Entire MH	None	21.6	
NN010741	SQ01	48	Cement Coating: Entire MH	None	13.3	
NN010746	SQ01	48	Repair Bench/Channel	Cement Coating: Entire MH	6.2	
NN010728.02	SQ02	48	Cement Coating: Entire MH	None	3.2	
NN010728.06	SQ02	48	Repair Bench/Channel	Cement Coating: Entire MH	5.2	
NN023633	SQ02	48	Repair Bench/Channel	None	8.4	
NN023731	SQ03	48	Cement Coating: Entire MH	None	8.0	
NN023325	SQ09	48	Repair Bench/Channel	None	9.8	
NN023326	SQ09	48	Repair Bench/Channel	None	10.1	
NN023326.01	SQ09	48	Cement Coating: Entire MH	None	7.8	

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MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
NN023326.07	SQ10	48	Cement Coating: Entire MH	None	8.8	
NN021533	SQ15	48	Cement Coating: Entire MH	None	9.6	
NN021530	SQ16	48	Install Inside Drop	None	7.1	Install Drop = 2.5 ft
NN021552	SQ17	48	Repair Bench/Channel	None	8.6	
NN021553	SQ17	48	Repair Bench/Channel	None	8.3	
NN021569	SQ17	48	Repair Bench/Channel	None	9.7	
NN021571.01	SQ17	48	Repair Bench/Channel	None	9.6	
NN021572	SQ17	48	Repair Bench/Channel	None	8.4	
NN010260	SR01	48	Repair Bench/Channel	None	9.5	
NN010261	SR01	48	Repair Bench/Channel	Cement Coating: Entire MH	6.9	
NN010728.05	SR02	48	Repair Bench/Channel	Cement Coating: Entire MH	5.4	
NN010765	SR02	48	Repair Bench/Channel	Cement Coating: Entire MH	8.6	
NN023627	SR03	48	Cement Coating: Entire MH	None	9.5	
NN023972	SR07	48	Cement Coating: Entire MH	Install Inside Drop	8.2	Install Drop = 2.5 ft
NN010106.04	SS01	48	Repair Bench/Channel	Cement Coating: Entire MH	8.0	
NN010257	SS01	48	Repair Bench/Channel	Install Inside Drop	7.8	
NN023668	SS02	48	Cement Coating: Entire MH	Install Inside Drop	6.1	Install Drop = 2 ft
NN023673	SS05	48	Repair Bench/Channel	Cement Coating: Entire MH	5.5	
NN024019.01	SS06	48	Cement Coating: Entire MH	None	4.6	
NN024019.02	SS06	48	Cement Coating: Entire MH	None	5.3	
NN023945	SS07	48	Cement Coating: Entire MH	None	7.9	
NN023947	SS07	48	Cement Coating: Entire MH	Install Inside Drop	10.8	Install Drop = 3 ft
NN023993	SS07	48	Cement Coating: Entire MH	None	9.2	
NN010749	ST02	48	Repair Bench/Channel	None	11.6	
NN023540	ST04	48	Cement Coating: Entire MH	None	12.2	
NN023939.03	ST06	48	Cement Coating: Entire MH	Install Inside Drop	7.4	Install Drop = 2.5 ft
NN023942	ST07	48	Repair Bench/Channel	Cement Coating: Entire MH	6.1	
NN024014	ST07	48	Cement Coating: Entire MH	None	3.6	
NN024059.01	ST07	48	Repair Bench/Channel	Cement Coating: Entire MH	4.2	
NN023614	SU03	48	Repair Bench/Channel	Cement Coating: Entire MH	5.4	

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MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
NN023605	SU04	48	Cement Coating: Entire MH	None	9.8	
NN023606	SU05	48	Cement Coating: Entire MH	None	8.1	
NN023610	SU05	48	Repair Bench/Channel	Cement Coating: Entire MH	6.2	
NN023725	SU05	48	Cement Coating: Entire MH	None	5.0	
NN023935	SU06	48	Repair Bench/Channel	None	7.7	
NN023938	SU07	48	Install Inside Drop	None	15.6	Install Drop = 10 ft
NN024059	SU07	48	Cement Coating: Entire MH	None	4.3	