



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 Notes and Sign-In Sheet

Section 2 - Bidder Questions Received to Date

Section 3 – Updated SARP10 DBE Participation Goal and MBE/WBE Minimum - Sections affected:

- 00170.6 Disadvantaged Business Enterprise (DBE) Goals
- 00672.4 Equal Business Opportunity Program and Minority/Women Business Enterprise Compliance Form

Section 4 – Updated 00370.3 Bid Pricing Information

Section 5 – Updated Technical Specifications – Mainline Relay Pipe Bid Schedule

All other conditions and requirements remain unchanged.

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### Section 1 Mandatory Pre-Bid Meeting Notes and Sign-In Sheet

# <u>NOTES</u>

 A revised Map Set has replaced the Map Set that was first issued. It can be found on the SARP10 website. <u>http://www.sarp10.com/projects/</u>





		SIGN-	IN SH	EET		CANBR 4
Project:	Group 1 Relay			Meeting D	Date:	February 15, 2018
Meeting:	Mandatory Pre	-Bid Meeting		Time:		1:00 P.M.
Facilitator:	Scott McAmis			Place/Roo	om:	2714 Union Ave. Extended, 5 <sup>th</sup> Floor
Name	A	Company	Phone		E-Mail	
Oscar ,	Kebupo	Garney	869-9	966-1763	ores	strips equirey. com
Ryan Pot		Gomey	615-1	881-2286	rpot	Her@garney.com
SustinAu	rent	CARP10	GU1-840	1-6554	justri	-aventorgaprof.com
Row HALL		ACUPFENTOPRISES SCOTT CONTRACTORS	901-386	101.13		AcurFENTERPRISES, INC.
tichael k	joles	xylem, inc.		1543	Mich	ael. 69/es@xylaminc.com
Devek h	411.5	Allworld			dw.11,	so allow to com
Terrell Ri	ich and s	WAT Contracting	90+3	31-1780	terre	Il hickards 250 @gmail.c
Wildhich		WITContach	90-4	97-1291	Wile	y Richards of MSN. Co M
Gary Of	ler	OCI	813-32	13-0502	olde	ngs@bu,com
Decemy	Jones	Cumbridge Cont.	401-35	50671		eseccminc.us
Briana	Redic	SARPIO/Allwork	901- 1691-E	59.50	Bu	iana Radia
Sosh Ca		SARPIO Milluord	870 574-1	1215		Abushi @ AllwolldmA'l.
Joey Ha	r	Acuft Enterprises		rs 2654		@ Acuff Enterprises . com
Justin D	Jonovan	Geotechnology	901-6	652-2178		novan Ogestechnology.
		1	901-38	33-3455	tom	my @ enscor, net
Stanley ,	Wullcie-		ut 901-	- 438- 4109	sja	Jallace @ terraconser
Tathicia						e Asual businesserv.net





Name		Company	Phone	E-Mail
JAME >	HINTE	MUC	901.238 7985	SHINTE MAGNE LIS prosectoria
10m	Kappe/	Broks Day / 14 tete	502-381-414	7 Thoppel D Badorme
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# Mandatory Pre-Bid Meeting Attendee List



Program: SARP10	Meeting Date: 2/15/2018
Project: Group 1 Relay	Time: 1:00 PM
Facilitator: Scott McAmis	Place/Room: 2714 Union Avenue Extended, 5 <sup>th</sup> Floor

Name	Company	Phone	E-Mail
Oscar Restrepo	Garney	864-906-1763	orestrepo@garney.com
Ryan Potter	Garney	615-881-2286	rpotter@garney.com
Justin Avent	SARP10	901-849-6554	Justin_avent@gspnet.com
Ron Hall	Scott Contractors/Acuff Enterprises	901-386-1981	ron@acuffenterprises.com
Michael Gates	Xylem	901-481-1543	mgates@xyleminc.com
Derek Willis	Allworld/SARP10		dwillis@allworldmail.com
Terrell Richards	W&T Contracting	901-331-1780	Terrellrichards250@gmail.com
Wiley Richards	W & T Contracting	901-497-1251	wileyrichards@msn.com
Gary Older	OCI/SARP10	813-323-0502	oldergs@bv.com
Jeremy Jones	Cambridge Construction	901-355-0671	jjones@ccminc.us
Briana Redic	SARP10/Allworld	901-591-5950	
Josh Grabowski	SARP10/Allworld	870-574-1719	jgrawbowski@allworldmail.com
Joey Hall	Acuff Enterprises	901-483-2654	joey@acuffenterprises.com
Justin Donovan	Geotechnology	901-652-2178	jdonovan@geotechnology.com
Tommy Stites	Enscor, LLC	901-383-3455	tommy@enscor.net
Stanley Wallace	Terracon Consultants	901-438-4109	sjwallace@terracon.com
Patricia Cordova	Small Business Services	901-348-0590	office@smallbusinessserv.net
James Hinte	Magnolia Underground	901-238-7985	jhinte@magnoliaunderground.us
Tom Kappel	Badger Daylighting	502-381-6147	trappel@badgerinc.com
Lee A. Jackson	JFC	901-336-8100	jacksoncfp@aol.com
Scott McAmis	SARP10	865-809-8618	scott_mcamis@gspnet.com





# Section 2 Bidder Questions Received to Date

Q1: Were the changes made in the addendums from the first Group 1 Relay RFB incorporated into this most recent Group 1 Relay RFB?

SARP10: Yes, all of the changes should be incorporated.

**Q2**: Does the 30 day restoration apply to each segment of pipe being relayed? **SARP10**: Yes, the contractor will be responsible for restoring each site 30 days after relaying the pipe.

**Q3**: How should the contractor restore an alleyway, with asphalt or gravel? **SARP10**: Where possible, the alley should be restored with the surface material that was in place before the pipe was relayed.

**Q4**: Does the current SARP10 detail specify asphalt or gravel? **SARP10**: No. Sanitary Sewer Point Repair (which also applies to pipe relay) directs the contractor to "match existing conditions."

Q5: What is 3rd Party Triage?

**SARP10**: There will be a conference call on Feb 28th at 1:00 PM CST to fully discuss. An invitation will be sent to all who signed the Sign In Sheet.

**Q6**: Are all subcontractors responsible for registering for 3rd Party Triage or can they use the prime contractor's agreement?

SARP10: All subcontractors must have an agreement with 3rd Party Triage for their respective company.

**Q7**: After the initial Trench & Excavation permit expires, does the contractor have to resubmit the T&E? **SARP10**: Yes, if work is still in progress.



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Section 3 Updated SARP10 DBE Participation Goal and MBE/WBE Minimum incorporated into the Work. The only acceptable form of instrument for this bid bond is bound herein, Article 00672.7.

Bidder shall be liable to the Purchaser for full amount of proposal guarantee as representing damage to the Purchaser on account of default of bidder if:

(a) Bid is withdrawn within one hundred eighty (180) calendar days after receipt of bids without approval by Purchaser.

(b) Bidder fails to enter into contract with Purchaser and execute required Performance Bond and provide required insurance coverage within ten (10) calendar days subsequent to notice of award of the Subcontract.

### Firms desiring to submit a Bid should carefully review these instructions. Compliance with all requirements will be solely the responsibility of the Respondent.

# 00170.5 Request for Bid Definitions

Terms used in this Request for Bid documents are defined and have the meanings assigned to them as follows. The term "OCI", "Purchaser" or "Program Manager" means Overland Contracting Inc. The term "Respondent", "Firm", "Company", "Subcontractor" or "Bidder" means one who submits a Response for the purpose stated in this Solicitation Request for Bid documents. The terms "BID", "Response" or "Respondent's Response" mean all submittal documents provided by the Respondent as required by this Request for Bid. The terms "Request for Bid" or "Bid Documents" mean the documents included in this Request for Bid.

Every effort has been made to use industry-accepted terminology in this Request for Bid. Any statement in this document, which uses words such as "must", "shall", "should", "provide for" or "have/provide the capability of/for", means that compliance with the intent of the statement is mandatory and that failure by the Respondent to satisfy that intent may be cause for the Response to be rejected.

# 00170.6 Disadvantaged Business Enterprise (DBE) Goals

This section shall set forth the respondent's DBE Participation Plan that must be submitted and include: (1) the level and dollar amount of participation your firm anticipates to achieve in the performance of the Subcontract resulting from this RFB; (2) the type of Work to be performed by the DBE firm(s) participating; and (3) the names of the DBE firms the Respondent plans to utilize in the performance of the Subcontract resulting from this RFB.

SARP10 DBE Participation Goal: (Vendors from the City of Memphis EBO list only) 30%

# 00170.7 Clarification of Bid

Purchaser reserves the right to obtain clarification of any point in a Response or to obtain additional information as necessary to properly evaluate a particular Response. Failure to respond to such request for additional information or clarification in a timely manner may result in rejection of the Response.

# 00170.8 Not Used

# 00170.9 Responsiveness

Respondents should respond to all requirements of the Bid to the maximum extent possible and are required to clearly identify any limitations or exceptions to the requirements.

# 00170.10 Examination of Request for Bid Documents

Before submitting a Response, each Respondent must:



# 00672.4 Equal Business Opportunity Program

This form must be submitted with Bidder's bid. Failure to execute and submit this document with Bidder's bid may cause the Bid to be rejected as non-conforming. In addition, each Sub-Subcontractor must execute the form.

This Subcontract will be subject to the requirements of the City of Memphis Ordinance #5384 which establishes the Equal Business Opportunity ("EBO") Program. It is up to the Respondent to ensure that all requirements of this ordinance are met. The Ordinance may be accessed on the City's website at <u>www.memphistn.gov</u> under "Office of Contract Compliance". The intent of the EBO Program is to increase the participation of locally owned minority and women owned business enterprises ("M/WBE").

SARP10 DBE Participation Goal:MBE/WBE minimum15% 30%(Vendors from the City of Memphis EBO list only)

### Participation Plan

The Participation Plan must include: (1) level and dollar amount of participation your firm anticipates to achieve in the performance of contract resulting from this RFB; (2) the type of work to be performed by the M/WBE participation; and (3) the names of the M/WBE and/or DBE firm(s) the Respondent plans to utilize in the performance of the contract resulting from this RFB.

### Eligible M/WBE and/or DBE Firms

To qualify as a M/WBE firm, per the requirements of City of Memphis Ordinance #5384, a firm must be included on the City's EBO list of certified M/WBE firms.

A list of the City's eligible M/WBE firms may be requested from Purchaser as a guide only. If a Bidder desires to utilize an M/WBE firm not included on the list, it is the Bidder's responsibility to confirm that the desired firm is certified by the City of Memphis. Such confirmation must be obtained from the City's Contract Compliance Office, in writing, before the bid/response due date. Requests for verification must be submitted to the City's Contract Compliance Office listed below:

Joann Massey City of Memphis, Contract Compliance Office 125 North Main Street, Suite 546 Memphis, TN 38103 Phone: (901) 576-6210 - Fax: (901) 576-6560 Email: joann.massey@memphistn.gov



### MINORITY/WOMEN BUSINESS ENTERPRISE COMPLIANCE FORM

SUBCONTRACT TITLE: GROUP 1 RELAY

Project M/WBE/DBE Goals: DBE participation 15% 30%

The following sections must be completed by Bidder. A certified subcontractor or supplier is defined as a firm from the list of certified firms provided with this specification.

Bidder's Name

<u>Section A</u> - If the Bidder is a certified firm, so indicate here with a check mark.

MBE WBE DBE

<u>Section B</u> - Identify below those certified firms that will be employed as subcontractors or suppliers on this Project. By submitting this Proposal, the Bidder commits to the use of the firms listed below.

\$ = Show the dollar value of the subcontract to be awarded to this firm

% = Show the percentage this subcontract is of your base Proposal

M/WBE = Show by inserting an M or W whether the subcontractor is an MBE or WBE

<u>\$</u>	<u>%</u>	M/WBE	DBE	CERTIFIED SUBCONTRACTOR NAME, ADDRESS, TEL #
\$	%		= Total N	//WBE and/or DBE

THIS FORM MUST BE SUBMITTED WITH THE PROPOSAL OR THE PROPOSAL MAY BE CONSIDERED NON-CONFORMING





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Request for Bid Group 1 Relay Addendum No. 1 to RFB No. 196548.71.0401 February 20, 2018



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Section 4 Updated 00370.3 Bid Pricing Information

# 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 P	rices			Bidder I	Response
Item Number	Item Description	Unit of	Estimated	Unit	Extension
		Measure	Quantity	Price	Price
71.0401 Group 1					
Pipe Replacemer					
02530-4.01.A	Locate & Expose Mainline Terminus	Each	17		\$-
	8" Polyvinyl Chloride (PVC) Pipe (0'-6' Depth)	Linear Ft	5,769		\$-
	8" Polyvinyl Chloride (PVC) Pipe (6.1'-10' Depth)	Linear Ft	<del>7959</del> <u>7,690</u>		\$-
	8" Polyvinyl Chloride (PVC) Pipe (10.1'-14' Depth)	Linear Ft	4,139		\$-
02530-4.01.B-1.4	8" Polyvinyl Chloride (PVC) Pipe (14.1'-20' Depth)	Linear Ft	1,175		\$-
02530-4.01.C	Service Lateral Removal & Replacement for Pipe Replacement	Each	192		\$-
02530-4.01.D	Pavement Backfill for Pipe Replacement	Cubic Yds	25,000		\$-
02530-4.01.E	Undercut Backfill	Cubic Yds	1,000		\$-
02530-4.01.F	Bypass Pumping	Each	40		\$-
02530-4.01.G	Traffic Control	Crew Day	450		\$-
02530-4.01.H	Hydroexcavating/Hand Digging	Linear Ft	19,000		\$-
Manhole Replace	ment / Installation	•			
02531-4.01.B	Precast Manhole Installation	Vertical Ft	100		\$-
02531-4.01.C	Pavement Backfill for Manholes	Cubic Yds	40		\$-
Manhole Rehabil	tation				
02533-4.01.A	Manhole Rehabilitation - Cementitious Coating	Vertical Ft	150		\$-
02533-4.01.B-1	Invert & Bench Replacement	Each	11		\$-
02533-4.01.D-2	Sewer Manhole Inside Drop Construction (5'-10')	Each	2		\$-
Post-Rehabilitati	on PACP Inspection	<u> </u>			
02541-4.01.A	Post Rehab CCTV Inspection For All Diameters	Linear Ft	20,000		\$-
Post-Rehabilitati	on MACP Inspection				
02544-4.01.A	GPS Coordinates of Manhole Cover	Each	33		\$-
02544-4.01.C-1	Post Rehab MACP Level 2 Manhole Inspections	Each	33		\$-
Site Preparation					
02630-4.01.A	Removal & Replacement of Vegetated/Turfed Areas	Square Yd	1,500		\$-
Pavement and In					
02950-4.01.A-1	Asphaltic Concrete Pavement Removal & Replacement	Square Yd	13,000		\$-
02950-4.01.A-2	Concrete Pavement Removal & Replacement	Square Yd			\$-
02950-4.01.A-3	Temporary Cold Patch Asphalt Removal & Replacement	Square Yd			\$-
02950-4.01.B	Concrete Sidewalk Removal & Replacement	Square Ft	20,000		\$-
02950-4.01.C	Concrete Curb & Gutter Removal & Replacement	Linear Ft	4,000		\$-
	Gravel Driveway & Gravel Area Removal & Replacement With		,		
02950-4.01.D	Crushed Stone	Ton	400		\$-
Miscellaneous					
	100% Performance and Payment Bonds	Lot	1		\$-
	То	tal Estima	ted Unit Pri	ice Value	\$ -



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Section 5 Updated Technical Specifications – Mainline Relay Pipe Bid Schedule

	Relay	0	10.3	327	Vitrified Clay Pipe	6	[7.9]	[Dead End]	SE17	NN021449S
	Relay	0	3.9	338	Vitrified Clay Pipe	6	NN021411 [4.1]	NN021424 [3.6]	SE17	NN021424S
	Mainline Relay	1	6.5	426	Vitrified Clay Pipe	6	NN021435 [6.2]	NN021447 [Dead End]	SE16	NN021447S
	Mainline Relay	0	10.5	483	Vitrified Clay Pipe	6	NN021421 [9.4]	NN021422 [11.4]	SD17	NN021422S
	Mainline Relay	1	14.4	517	Vitrified Clay Pipe	6	NN021333 []	NN021334 [13.8]	SD16	NN021334S
	Mainline Relay	∞	8.1	224	Vitrified Clay Pipe	8	FS045 208 [10.6]	FS045209 [5.7]	SC18	FS045209S
	Mainline Relay	1	8.3	389	Vitrified Clay Pipe	6	FS045133.01 [5.9]	FS045208 [10.6]	SC18	FS045208S
	Mainline Relay	0	17.1	123	Polyvinyl Chloride	6	FS045444 [16.7]	FS045621 [Dead End]	SC17	FS045621S
	Mainline Relay	11	8.0	604	Vitrified Clay Pipe	6	FS045442 [13.7]	FS045449 [2.4]	SC17	FS045449S
	Mainline Relay	6	8.0	233	Vitrified Clay Pipe	6	FS045445 [7.8]	FS045448 [-:-]	SC17	FS045448S
	Mainline Relay	0	9.7	338	Vitrified Clay Pipe	6	FS045257 [9.2]	FS045536 [9.8]	SC16	FS045536S
	Mainline Relay	5	9.3	217	Vitrified Clay Pipe	6	FS045257 [9.2]	FS045257.01 []	SC16	FS045257.01S
	Mainline Relay	1	8.6	576	Vitrified Clay Pipe	6	FS045128 [8.3]	FS045221 [Dead End]	SA17	FS045221S
	Mainline Relay	1	6.9	534	Vitrified Clay Pipe	6	WS010534 [8.4]	WS010570 [5.3]	NQ02	WS010570S
	Mainline Relay	0	7.0	544	Polyvinyl Chloride	6	WS010537 [11.0]	WS010538 [3.0]	NQ02	WS010538S
	Mainline Relay	13	4.6	493	Vitrified Clay Pipe	6	WS010548 [5.2]	WS010640 [4.0]	NN03	WS010640S
	Mainline Relay	2	5.1	324	Vitrified Clay Pipe	6	WS010548 [5.2]	WS010549 [Cleanout]	NN03	WS010549S
	Mainline Relay	4	8.4	469	Polyvinyl Chloride	6	WS010504 [8.4]	WS010566 [Dead End]	NN02	WS010566S
	Mainline Relay	1	15.1	315	Vitrified Clay Pipe	6	FS021698 []	FS021699 [11.2]	NN02	FS021699S
	Mainline Relay	0	4.4	10	Concrete Pipe (non- reinforced)	œ	WS010363.11 [4.5]	WS010363.20 [Dead End]	NK02	WS010363.20S
	Mainline Relay	1	5.9	804	Vitrified Clay Pipe	6	FS022730 [4.2]	FS022731 [7.2]	80LN	FS022731S
Notes	Repair Method	Approx. # of Taps	Approx. Repair Depth (ft)	Approx. Repair Length (ft)	Material	Diameter (in.)	DS MH [Approx. Depth (ft)]	US MH [Approx. Depth (ft)]	Sheet	Pipe ID

Group 1 Rehab Project - Mainline Relay Pipe Bid Schedule

	Mainline Relay	7	13.7	292	Vitrified Clay Pipe	6	NN010726 [13.7]	NN010727 []	SR02	NN010727S
	Mainline Relay	1	12.7	226	Vitrified Clay Pipe	6	NN010731 [12.6]	NN010736 [-:-]	SR01	NN010736S
	Mainline Relay	0	7.9	390	Concrete Pipe (non- reinforced)	8	NN022434 [10.7]	NN022435 [5.5]	SQ13	NN022435S
	Mainline Relay	0	5.0	686	Vitrified Clay Pipe	6	NN010733 [4.8]	NN010725 [Dead End]	SQ02	NN010725S
	Mainline Relay	1	14.0	213	Vitrified Clay Pipe	6	NN010732 [14.1]	NN010745 []	SQ01	NN010745S
	Mainline Relay	0	13.3	26	Concrete Pipe (non- reinforced)	8	NN020153 [16.2]	NN020188 [11.7]	SN13	NN020188S-2
	Mainline Relay	0	7.6	301	Reinforced Concrete Pipe	8	NN023145 [8.0]	NN023182 [7.2]	SM08	NN023182S
	Mainline Relay	8	8.2	251	Concrete Pipe (non- reinforced)	8	NN022576 [8.4]	NN022618 [7.9]	SL12	NN022618S
	<del>Mainline-</del> <del>Relay</del>	4	9.7	274	Concrete Pipe (non- reinforced)	qo	NN022404 [9.1]	NN022542 [10.2]	<del>5112</del>	NN0225425
	Mainline Relay	0	4.5	165	Vitrified Clay Pipe	6	NN023124 [5.5]	NN023273 [3.5]	601S	NN023273S
	Mainline Relay	0	4.8	179	Vitrified Clay Pipe	6	NN020570 [5.3]	NN020570.01 [7.8]	SJ16	NN020570.01S
	Mainline Relay	14	8.7	347	Vitrified Clay Pipe	6	NN020598 [11.9]	NN021007 [5.6]	SI19	NN021007S
	Mainline Relay	3	9.5	321	Vitrified Clay Pipe	6	NN020782 [10.4]	NN020783 [8.5]	SI19	NN020783S
	Mainline Relay	1	7.1	338	Vitrified Clay Pipe	6	NN020779 [7.5]	NN020780 [Dead End]	SI19	NN020780S
	Mainline Relay	1	10.3	361	Vitrified Clay Pipe	6	NN020711 [14.0]	NN020712 [6.6]	SG17	NN020712S
	Mainline Relay	0	7.8	112	Vitrified Clay Pipe	6	NN020714 [7.8]	NN020715 [Dead End]	SG16	NN020715S
	Mainline Relay	0	5.9	617	Vitrified Clay Pipe	∞	NN020740 [4.5]	NN021072 [7.3]	SF19	NN021072S
	Mainline Relay	14	10.0	600	Vitrified Clay Pipe	6	NN021070 [9.7]	NN021071 [10.6]	SF19	NN021071S
	Mainline Relay	1	4.7	241	Vitrified Clay Pipe	6	NN020740 [4.5]	NN020741 [5.3]	SF19	NN020741S
	Mainline Relay	22	4.5	586	Vitrified Clay Pipe	6	FS045371 [4.5]	FS045372 [Dead End]	SF18	FS045372S
	Mainline Relay	3	5.1	532	Vitrified Clay Pipe	6	NN021406 [5.0]	NN021442 []	SF17	NN021442S
	Mainline Relay	11	6.3	354	Vitrified Clay Pipe	6	FS045631 [6.2]	FS045632 [Dead End]	SE18	FS045632S
Notes	Repair Method	Approx. # of Taps	Approx. Repair Depth (ft)	Approx. Repair Length (ft)	Material	Diameter (in.)	DS MH [Approx. Depth (ft)]	US MH [Approx. Depth (ft)]	Sheet	Pipe ID

Group 1 Rehab Project - Mainline Relay Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft)]	DS MH [Approx. Depth (ft)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Approx. # Depth (ft) of Taps	Approx. # of Taps	Repair Method
NN010728.04S	SR02	NN010728.04 [Dead End]	NN010728.03 [6.0]	6	Vitrified Clay Pipe	154	7.6	0	Mainline Relay
NN010728S	SR02	NN010728 [7.5]	NN010727 []	6	Vitrified Clay Pipe	202	7.6	2	Mainline Relay
NN010767S	SR02	NN010767 [Dead End]	NN010766 [1.8]	6	Vitrified Clay Pipe	73	1.6	0	Mainline Relay
NN010227S	SS01	NN010227 [Dead End]	NN010226 [5.6]	6	Vitrified Clay Pipe	282	5.8	1	Mainline Relay
NN024062S	SS07	NN024062 [Dead End]	NN024061 [5.5]	6	Vitrified Clay Pipe	531	5.5	0	Mainline Relay
NN010739S	ST01	NN010739 [Dead End]	NN010718 [12.0]	6	Vitrified Clay Pipe	588	12.0	3	Mainline Relay
NN010748S	ST02	NN010748 [7.0]	NN010752 []	6	Vitrified Clay Pipe	120	7.0	4	Mainline Relay
NN010752S	ST02	NN010752 []	NN010718 [12.0]	6	Vitrified Clay Pipe	596	12.0	0	Mainline Relay
NN023658S	ST03	NN023658 [8.0]	NN023657 [8.3]	6	Vitrified Clay Pipe	81	8.2	0	Mainline Relay
NN023793S	ST04	NN023793 [9.0]	NN023541 [13.7]	8	Reinforced Concrete Pipe	514	11.4	2	Mainline Relay
NN023675S	ST05	NN023675 [8.0]	NN023674 [4.2]	6	Vitrified Clay Pipe	367	6.1	0	Mainline Relay
NN023759S	ST05	NN023759 [3.1]	NN023674 [4.2]	6	Vitrified Clay Pipe	290	3.6	9	Mainline Relay
NN023760S	ST05	NN023760 [Dead End]	NN023759 [3.1]	6	Vitrified Clay Pipe	497	3.1	16	Mainline Relay

# Group 1 Rehab Project - Mainline Relay Pipe Bid Schedule

# Group 1 Rehab Project - Manhole Bid Schedule - Relay Contract

MH ID	Sheet	Diameter (in.)	Repair Method 1	Repair Method 2	Manhole Height (ft)	Notes
FS021699	NN02	48	Cement Coating: Entire MH	None	11.2	
WS010566	NN02	48	Install New Manhole	None	7.0	
WS010549	NN03	48	Install New Manhole	None	5.0	
WS010538	NP02	48	Cement Coating: Entire MH	None	3.0	
WS010570	NP02	48	Repair Bench/Channel	None	5.3	
FS045221	SA18	48	Install New Manhole	None	8.0	
FS045442	SC17	48	Cement Coating: Entire MH	None	13.7	
FS045444	SC17	48	Cement Coating: Entire MH	Install Inside Drop	16.7	Install Drop = 10 ft
FS045208	SC18	48	Cement Coating: Entire MH	None	10.6	·
FS045209	SC18	48	Repair Bench/Channel	Cement Coating: Entire MH	5.7	
NN021334	SD16	48	Install Inside Drop	None	14.0	Install Drop = 10 ft
FS045621	SD17	48	Install New Manhole	None	14.0	1
NN021447	SE16	48	Install New Manhole	None	5.0	
NN021411	SE17	48	Repair Bench/Channel	None	4.1	
NN021449	SE17	48	Install New Manhole	None	8.0	
FS045632	SE18	48	Install New Manhole	None	5.0	
NN021406	SF17	48	Cement Coating: Entire MH	None	5.0	
NN020741	SF19	48	Repair Bench/Channel	None	5.3	
NN020715	SG16	48	Install New Manhole	None	7.0	
FS045372	SG18	48	Install New Manhole	None	4.0	
NN020780	SH19	48	Install New Manhole	None	7.0	
NN020783	SI19	48	Cement Coating: Entire MH	None	8.5	
NN020570	SJ16	48	Cement Coating: Entire MH	None	5.3	
NN023153	SL09	48	Cement Coating: Entire MH	None	8.4	
NN022618	SL12	48	Cement Coating: Entire MH	None	7.9	
NN020153	SN13	48	Repair Bench/Channel	None	16.1	
NN020188	SN13	48	Cement Coating: Entire MH	None	11.7	
NN010733	SQ01	48	Repair Bench/Channel	None	4.8	
NN010725	SQ02	48	Install New Manhole	None	4.0	
NN010728	SR02	48	Repair Bench/Channel	Cement Coating: Entire MH	7.5	
NN010728.03	SR02	48	Repair Bench/Channel	None	6.0	
NN010766	SR02	48	Repair Bench/Channel	Cement Coating: Entire MH	1.8	
NN010767	SR02	48	Install New Manhole	None	1.0	
NN010728.04	SR04	48	Install New Manhole	None	5.0	
NN010227	SS01	48	Install New Manhole	None	4.0	
NN024061	SS07	48	Repair Bench/Channel	Cement Coating: Entire MH	5.5	
NN024062	SS07	48	Install New Manhole	None	4.0	
NN010739	ST01	48	Install New Manhole	None	10.0	
NN010748	ST02	48	Repair Bench/Channel	Cement Coating: Entire MH	7.0	
NN023541	ST04	48	Cement Coating: Entire MH	None	13.7	
NN023760	ST05	48	Install New Manhole	None	2.0	