



City of Danville, Virginia

PO Box 3300
Danville, VA 24543

427 Patton Street, Rm 304
Danville, VA 24541

J. Gary Via, CPPO
Director of Purchasing
e-mail: viajg@danvilleva.gov

Phone: (434) 799-6528
Fax: (434) 799-5102
e-mail: purchasing@danvilleva.gov

Addendum No. 2

PROJECT: **IFB 22-23-044** Apple Branch Sanitary Sewer Interceptor Reconstruction

DATE: December 2, 2022

Revisions/Clarifications and Instructions to Bidders

Revisions/Clarifications:

1. Removal and disposal of existing sheds located within sanitary sewer easements is required. Replacement sheds are not included in the shed removal price or the scope of work.
2. The Base Bid (Bid Schedule 001) has been revised as follows:
 - Due to error on the original bid form, quantity for Line Item 40 – Standard Manhole, 4' I.D. is increased to 17 EA.
3. Each of the five (5) Alternate Bid Schedules (Bid Schedules numbered 002 through 006) and their descriptions (scopes of work) have been revised and modified.

The Excel Bid Item Spreadsheet version of the bid schedules originally provided has been replaced with an updated version and is available for download at:

https://danvilleva-my.sharepoint.com/:f/g/personal/royalsw_danvilleva_gov/EoGq16d1zq9GjU46HaBcLsEBLK_vO3siQbCK8Lu_xZqDqw?e=Qyulyw

Excel spreadsheet is provided as-is and for convenience only. Bidders shall be solely responsible for ensuring the accuracy of their bids.

4. The descriptions which indicate how the work of each alternate differs from the Base Bid have been revised and are as follows:
 - Bid Schedule 002
 - Substitutes PVC (SDR 26) pipe/fittings in lieu of Ductile Iron (Class 52) pipe/fittings
 - Bid Schedule 003
 - Substitutes PVC (SDR 26) pipe/fittings in lieu of Ductile Iron (Class 52) pipe/fittings
 - Removes the work shown on Plan Sheet C-6
 - Bid Schedule 004
 - Substitutes PVC (SDR 26) pipe/fittings in lieu of Ductile Iron (Class 52) pipe/fittings
 - Removes the work of replacing the pipeline from manholes 31015 to 31014 shown on Plan Sheet C-1

- Bid Schedule 005
 - Substitutes PVC (SDR 26) pipe/fittings in lieu of Ductile Iron (Class 52) pipe/fittings
 - Removes the work of rerouting sewer on Plan Sheets C-4 and C-5 down Melrose and Northmont
- Bid Schedule 006
 - Substitutes PVC (SDR 26) pipe/fittings in lieu of Ductile Iron (Class 52) pipe/fittings
 - Removes the work of replacing the sewer pipe from manholes 31205 to SMH-21 shown on Plan Sheets C-3, C-4 and C-5

Instructions to Bidders:

1. **REPLACE** Bid Proposal **pages PP-3 through PP-26** (24 pages total) with the attached pages PP-3 through PP-26 revised per Addendum No. 2.

Last Date for Questions

The last date for questions is December 7, 2022 at 5:00 p.m. EST. All questions should be submitted by email to purchasing@danvilleva.gov and cc: Chris.Franks@danvilleva.gov by this date.

All other specifications remain the same.

Carol Henley

Carol G. Henley, Acting Director of Purchasing

Company Name: _____ Signature: _____

Address: _____ Signature: _____

_____ Title: _____

City State Zip Code

Date: _____ e-mail address: _____

Phone No: _____ Fax No: _____

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 001 – BASE BID						
1	3	Clearing and Grubbing	0.90	AC		
2	4	Removal of Existing Trees	15.00	EA		
3	4	Concrete Piers at Stream Crossings	7.00	CY		
4	4	Inlet Protection	18.00	EA		
5	4	Permanent Seeding Std 3.32	10,430.00	SY		
6	4	Silt Fence	3,325.00	LF		
7	4	Stream Stabilization at Stream Crossings	1.00	LS		
8	4	Temporary Seeding, Std. 3.31	10,430.00	SY		
9	4	Utility Stream Crossings	4.00	EA		
10	7	10" DI Pipe (Class 52), 0-8'	80.00	LF		
11	7	10" DI Pipe (Class 52), 16-20'	70.00	LF		
12	7	10" DI Pipe (Class 52), 8-12'	164.00	LF		
13	7	10" PVC Pipe, 0-8'	17.00	LF		
14	7	10" Sewer Pipeline Abandonment	752.00	LF		
15	7	12" DI Pipe (Class 52), 0-8'	862.00	LF		
16	7	12" DI Pipe (Class 52), 16-20'	120.00	LF		
17	7	12" DI Pipe (Class 52), 20-24'	230.00	LF		
18	7	12" DI Pipe (Class 52), 8-12'	780.00	LF		
19	7	16" DI Pipe (Class 52), 0-8'	728.00	LF		
20	7	16" DI Pipe (Class 52), 8-12'	184.00	LF		
21	7	16" DI Rigid Restrained Joint (Mech-Lok) D.I. at Stream Crossing	80.00	LF		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 001 – BASE BID						
22	7	4" DI Sanitary Lateral Pipe (Class 52)	525.00	LF		
23	7	8" DI Pipe (Class 52), 0-8'	31.00	LF		
24	7	8" Sewer Pipeline Abandonment	566.00	LF		
25	7	Concrete Encasement at Stream Crossings	10.00	LF		
26	7	Connect to Existing Manhole	2.00	EA		
27	7	DI Wye, 12-inch x 4-inch	22.00	EA		
28	7	DI Wye, 16-inch x 4-inch	4.00	EA		
29	7	Excavation of Rock	250.00	CY		
30	7	Extra Depth in 4' I.D. Manholes Beyond 8'	5.00	VF		
31	7	Extra Depth in 5' I.D. Inside Drop Manholes Beyond 8'	26.00	VF		
32	7	Extra Depth in 5' I.D. Manholes Beyond 8'	23.00	VF		
33	7	Foundation Stone, VDOT No. 5	95.00	TNS		
34	7	Inside Drop Manhole, 5' I.D. 0-8'	4.00	EA		
35	7	Manhole Abandonment	5.00	EA		
36	7	Manhole Rehabilitation	8.00	VF		
37	7	Manhole Removal and Disposal	4.00	EA		
38	7	Sanitary Cleanout Assembly	33.00	EA		
39	7	Slipline 10" Sewer w/ 6" HDPE and Grout Annual Space	95.00	LF		
40	7	Standard Manhole, 4' I.D.	17.00	EA		
41	7	Standard Manhole, 5' I.D.	6.00	EA		
42	7	Stone Backfill, VDOT No. 21B	6,300.00	TNS		
43	7	Undercut/Disposal/Backfill Unsuitable Material	600.00	CY		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 001 – BASE BID						
44	8	Repair of Existing Paved Concrete Driveways	15.00	SY		
45	8	Replacement of Concrete Curb & Gutter	50.00	LF		
46	9	Asphalt Pavement Flush Patching	30.00	TNS		
47	9	Full Width Asphalt Overlay	515.00	TNS		
48	9	Pavement Milling	5,800.00	SY		
49	9	Saw Cut Existing Asphalt Pavement	3,200.00	LF		
50	9	Temporary Asphalt Pavement Patch (BM-25.0)	320.00	TNS		
51	10	Adjust Existing Water/Gas Valve Box to Grade	18.00	EA		
52	11	Mobilization/Demobilization	1.00	LS		
53	11	Survey Stakeout	1.00	LS		
54	12	Remove & Dispose Exist. Sheds	2.00	EA		
55	13	Residential Traffic Control	1.00	LS		
56	17	Tree Protection	13.00	EA		
57	18	Sanitary Sewer Bypass Pumping	1.00	LS		
58	7	10" SDR 26, 0-8'	0.00	LF		0.00
59	7	10" SDR 26, 16-20'	0.00	LF		0.00
60	7	10" SDR 26, 8-12'	0.00	LF		0.00
61	7	12" SDR 26, 0-8'	0.00	LF		0.00
62	7	12" SDR 26, 16-20'	0.00	LF		0.00
63	7	12" SDR 26, 20-24'	0.00	LF		0.00
64	7	12" SDR 26, 8-12'	0.00	LF		0.00
65	7	15" SDR 26, 0-8'	0.00	LF		0.00

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 001 – BASE BID						
66	7	15" SDR 26, 8-12'	0.00	LF		0.00
67	7	Steel Encasement for PVC (incl. casing spacers and end seals)	0.00	LF		0.00
68	7	4" SDR Sanitary Lateral Pipe	0.00	LF		0.00
69	7	8" SDR 26, 0-8'	0.00	LF		0.00
70	7	SDR-26 Wye, 12-inch x 4-inch	0.00	EA		0.00
71	7	SDR-26 Wye, 16-inch x 4-inch	0.00	EA		0.00
					SCHED 001 - BASE BID TOTAL =	

Alternate 1 substitutes ductile iron pipe and fittings with PVC sewer pipe (SDR-26) and PVC fittings.

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 002 – ALT 1						
1	3	Clearing and Grubbing	0.90	AC		
2	4	Removal of Existing Trees	15.00	EA		
3	4	Concrete Piers at Stream Crossings	7.00	CY		
4	4	Inlet Protection	18.00	EA		
5	4	Permanent Seeding Std 3.32	10,430.00	SY		
6	4	Silt Fence	3,325.00	LF		
7	4	Stream Stabilization at Stream Crossings	1.00	LS		
8	4	Temporary Seeding, Std. 3.31	10,430.00	SY		
9	4	Utility Stream Crossings	4.00	EA		
10	7	10" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
11	7	10" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
12	7	10" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
13	7	10" PVC Pipe, 0-8'	17.00	LF		
14	7	10" Sewer Pipeline Abandonment	752.00	LF		
15	7	12" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
16	7	12" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
17	7	12" DI Pipe (Class 52), 20-24'	0.00	LF		0.00
18	7	12" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
19	7	16" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
20	7	16" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
21	7	16" DI Rigid Restrained Joint (Mech-Lok) D.I. at Stream Crossing	0.00	LF		0.00

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 002 – ALT 1						
22	7	4" DI Sanitary Lateral Pipe (Class 52)	0.00	LF		0.00
23	7	8" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
24	7	8" Sewer Pipeline Abandonment	566.00	LF		
25	7	Concrete Encasement at Stream Crossings	15.00	LF		
26	7	Connect to Existing Manhole	2.00	EA		
27	7	DI Wye, 12-inch x 4-inch	0.00	EA		0.00
28	7	DI Wye, 16-inch x 4-inch	0.00	EA		0.00
29	7	Excavation of Rock	250.00	CY		
30	7	Extra Depth in 4' I.D. Manholes Beyond 8'	5.00	VF		
31	7	Extra Depth in 5' I.D. Inside Drop Manholes Beyond 8'	26.00	VF		
32	7	Extra Depth in 5' I.D. Manholes Beyond 8'	23.00	VF		
33	7	Foundation Stone, VDOT No. 5	95.00	TNS		
34	7	Inside Drop Manhole, 5' I.D. 0-8'	4.00	EA		
35	7	Manhole Abandonment	5.00	EA		
36	7	Manhole Rehabilitation	8.00	VF		
37	7	Manhole Removal and Disposal	4.00	EA		
38	7	Sanitary Cleanout Assembly	33.00	EA		
39	7	Slipline 10" Sewer w/ 6" HDPE and Grout Annual Space	95.00	LF		
40	7	Standard Manhole, 4' I.D.	17.00	EA		
41	7	Standard Manhole, 5' I.D.	6.00	EA		
42	7	Stone Backfill, VDOT No. 21B	6,300.00	TNS		
43	7	Undercut/Disposal/Backfill Unsuitable Material	600.00	CY		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 002 – ALT 1						
44	8	Repair of Existing Paved Concrete Driveways	15.00	SY		
45	8	Replacement of Concrete Curb & Gutter	50.00	LF		
46	9	Asphalt Pavement Flush Patching	30.00	TNS		
47	9	Full Width Asphalt Overlay	515.00	TNS		
48	9	Pavement Milling	5,800.00	SY		
49	9	Saw Cut Existing Asphalt Pavement	3,200.00	LF		
50	9	Temporary Asphalt Pavement Patch (BM-25.0)	320.00	TNS		
51	10	Adjust Existing Water/Gas Valve Box to Grade	18.00	EA		
52	11	Mobilization/Demobilization	1.00	LS		
53	11	Survey Stakeout	1.00	LS		
54	12	Remove & Dispose Exist. Sheds	2.00	EA		
55	13	Residential Traffic Control	1.00	LS		
56	17	Tree Protection	13.00	EA		
57	18	Sanitary Sewer Bypass Pumping	1.00	LS		
58	7	10" SDR 26, 0-8'	80.00	LF		
59	7	10" SDR 26, 16-20'	70.00	LF		
60	7	10" SDR 26, 8-12'	164.00	LF		
61	7	12" SDR 26, 0-8'	862.00	LF		
62	7	12" SDR 26, 16-20'	120.00	LF		
63	7	12" SDR 26, 20-24'	230.00	LF		
64	7	12" SDR 26, 8-12'	780.00	LF		
65	7	15" SDR 26, 0-8'	728.00	LF		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 002 – ALT 1						
66	7	15" SDR 26, 8-12'	184.00	LF		
67	7	Steel Encasement for PVC (incl. casing spacers and end seals)	80.00	LF		
68	7	4" SDR Sanitary Lateral Pipe	525.00	LF		
69	7	8" SDR 26, 0-8'	31.00	LF		
70	7	SDR-26 Wye, 12-inch x 4-inch	22.00	EA		
71	7	SDR-26 Wye, 16-inch x 4-inch	4.00	EA		
					SCHED 002 ALT 1 TOTAL =	

In addition to substituting PVC pipe and fittings in lieu of DI, alternate 2 also eliminates the work shown on plan sheet C-6.

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 003 – ALT 2						
1	3	Clearing and Grubbing	0.90	AC		
2	4	Removal of Existing Trees	9.00	EA		
3	4	Concrete Piers at Stream Crossings	7.00	CY		
4	4	Inlet Protection	16.00	EA		
5	4	Permanent Seeding Std 3.32	10,430.00	SY		
6	4	Silt Fence	3,245.00	LF		
7	4	Stream Stabilization at Stream Crossings	1.00	LS		
8	4	Temporary Seeding, Std. 3.31	10,430.00	SY		
9	4	Utility Stream Crossings	4.00	EA		
10	7	10" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
11	7	10" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
12	7	10" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
13	7	10" PVC Pipe, 0-8'	17.00	LF		
14	7	10" Sewer Pipeline Abandonment	647.00	LF		
15	7	12" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
16	7	12" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
17	7	12" DI Pipe (Class 52), 20-24'	0.00	LF		0.00
18	7	12" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
19	7	16" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
20	7	16" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
21	7	16" DI Rigid Restrained Joint (Mech-Lok) D.I. at Stream Crossing	0.00	LF		0.00

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 003 – ALT 2						
22	7	4" DI Sanitary Lateral Pipe (Class 52)	0.00	LF		0.00
23	7	8" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
24	7	8" Sewer Pipeline Abandonment	566.00	LF		
25	7	Concrete Encasement at Stream Crossings	15.00	LF		
26	7	Connect to Existing Manhole	2.00	EA		
27	7	DI Wye, 12-inch x 4-inch	0.00	EA		0.00
28	7	DI Wye, 16-inch x 4-inch	0.00	EA		0.00
29	7	Excavation of Rock	216.00	CY		
30	7	Extra Depth in 4' I.D. Manholes Beyond 8'	4.00	VF		
31	7	Extra Depth in 5' I.D. Inside Drop Manholes Beyond 8'	6.00	VF		
32	7	Extra Depth in 5' I.D. Manholes Beyond 8'	23.00	VF		
33	7	Foundation Stone, VDOT No. 5	89.00	TNS		
34	7	Inside Drop Manhole, 5' I.D. 0-8'	2.00	EA		
35	7	Manhole Abandonment	5.00	EA		
36	7	Manhole Rehabilitation	8.00	VF		
37	7	Manhole Removal and Disposal	4.00	EA		
38	7	Sanitary Cleanout Assembly	33.00	EA		
39	7	Slipline 10" Sewer w/ 6" HDPE and Grout Annual Space	0.00	LF		0.00
40	7	Standard Manhole, 4' I.D.	13.00	EA		
41	7	Standard Manhole, 5' I.D.	6.00	EA		
42	7	Stone Backfill, VDOT No. 21B	4,845.00	TNS		
43	7	Undercut/Disposal/Backfill Unsuitable Material	540.00	CY		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 003 – ALT 2						
44	8	Repair of Existing Paved Concrete Driveways	15.00	SY		
45	8	Replacement of Concrete Curb & Gutter	40.00	LF		
46	9	Asphalt Pavement Flush Patching	30.00	TNS		
47	9	Full Width Asphalt Overlay	485.00	TNS		
48	9	Pavement Milling	5,480.00	SY		
49	9	Saw Cut Existing Asphalt Pavement	3,075.00	LF		
50	9	Temporary Asphalt Pavement Patch (BM-25.0)	320.00	TNS		
51	10	Adjust Existing Water/Gas Valve Box to Grade	18.00	EA		
52	11	Mobilization/Demobilization	1.00	LS		
53	11	Survey Stakeout	1.00	LS		
54	12	Remove & Dispose Exist. Sheds	2.00	EA		
55	13	Residential Traffic Control	1.00	LS		
56	17	Tree Protection	12.00	EA		
57	18	Sanitary Sewer Bypass Pumping	1.00	LS		
58	7	10" SDR 26, 0-8'	0.00	LF		0.00
59	7	10" SDR 26, 16-20'	0.00	LF		0.00
60	7	10" SDR 26, 8-12'	0.00	LF		0.00
61	7	12" SDR 26, 0-8'	862.00	LF		
62	7	12" SDR 26, 16-20'	120.00	LF		
63	7	12" SDR 26, 20-24'	230.00	LF		
64	7	12" SDR 26, 8-12'	780.00	LF		
65	7	15" SDR 26, 0-8'	728.00	LF		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 003 – ALT 2						
66	7	15" SDR 26, 8-12'	184.00	LF		
67	7	Steel Encasement for PVC (incl. casing spacers and end seals)	80.00	LF		
68	7	4" SDR Sanitary Lateral Pipe	525.00	LF		
69	7	8" SDR 26, 0-8'	31.00	LF		
70	7	SDR-26 Wye, 12-inch x 4-inch	22.00	EA		
71	7	SDR-26 Wye, 16-inch x 4-inch	4.00	EA		
					SCHED 003 ALT 2 TOTAL =	

In addition to substituting PVC pipe and fittings in lieu of DI, alternate 3 removes the work of replacing the pipeline between manhole ID 31015 and manhole ID 31014 as shown on plan sheet C-1.

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 004 – ALT 3						
1	3	Clearing and Grubbing	0.65	AC		
2	4	Removal of Existing Trees	14.00	EA		
3	4	Concrete Piers at Stream Crossings	7.00	CY		
4	4	Inlet Protection	18.00	EA		
5	4	Permanent Seeding Std 3.32	9,035.00	SY		
6	4	Silt Fence	2,825.00	LF		
7	4	Stream Stabilization at Stream Crossings	1.00	LS		
8	4	Temporary Seeding, Std. 3.31	9,035.00	SY		
9	4	Utility Stream Crossings	4.00	EA		
10	7	10" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
11	7	10" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
12	7	10" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
13	7	10" PVC Pipe, 0-8'	17.00	LF		
14	7	10" Sewer Pipeline Abandonment	752.00	LF		
15	7	12" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
16	7	12" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
17	7	12" DI Pipe (Class 52), 20-24'	0.00	LF		0.00
18	7	12" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
19	7	16" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
20	7	16" DI Pipe (Class 52), 8-12'	0.00	LF		0.00

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 004 – ALT 3						
21	7	16" DI Rigid Restrained Joint (Mech-Lok) D.I. at Stream Crossing	0.00	LF		0.00
22	7	4" DI Sanitary Lateral Pipe (Class 52)	0.00	LF		0.00
23	7	8" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
24	7	8" Sewer Pipeline Abandonment	566.00	LF		
25	7	Concrete Encasement at Stream Crossings	15.00	LF		
26	7	Connect to Existing Manhole	2.00	EA		
27	7	DI Wye, 12-inch x 4-inch	0.00	EA		0.00
28	7	DI Wye, 16-inch x 4-inch	0.00	EA		0.00
29	7	Excavation of Rock	228.00	CY		
30	7	Extra Depth in 4' I.D. Manholes Beyond 8'	5.00	VF		
31	7	Extra Depth in 5' I.D. Inside Drop Manholes Beyond 8'	26.00	VF		
32	7	Extra Depth in 5' I.D. Manholes Beyond 8'	23.00	VF		
33	7	Foundation Stone, VDOT No. 5	90.00	TNS		
34	7	Inside Drop Manhole, 5' I.D. 0-8'	4.00	EA		
35	7	Manhole Abandonment	5.00	EA		
36	7	Manhole Rehabilitation	8.00	VF		
37	7	Manhole Removal and Disposal	4.00	EA		
38	7	Sanitary Cleanout Assembly	33.00	EA		
39	7	Slipline 10" Sewer w/ 6" HDPE and Grout Annual Space	95.00	LF		
40	7	Standard Manhole, 4' I.D.	16.00	EA		
41	7	Standard Manhole, 5' I.D.	6.00	EA		
42	7	Stone Backfill, VDOT No. 21B	6,220.00	TNS		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 004 – ALT 3						
43	7	Undercut/Disposal/Backfill Unsuitable Material	570.00	CY		
44	8	Repair of Existing Paved Concrete Driveways	15.00	SY		
45	8	Replacement of Concrete Curb & Gutter	40.00	LF		
46	9	Asphalt Pavement Flush Patching	25.00	TNS		
47	9	Full Width Asphalt Overlay	515.00	TNS		
48	9	Pavement Milling	5,800.00	SY		
49	9	Saw Cut Existing Asphalt Pavement	3,200.00	LF		
50	9	Temporary Asphalt Pavement Patch (BM-25.0)	320.00	TNS		
51	10	Adjust Existing Water/Gas Valve Box to Grade	18.00	EA		
52	11	Mobilization/Demobilization	1.00	LS		
53	11	Survey Stakeout	1.00	LS		
54	12	Remove & Dispose Exist. Sheds	2.00	EA		
55	13	Residential Traffic Control	1.00	LS		
56	17	Tree Protection	12.00	EA		
57	18	Sanitary Sewer Bypass Pumping	1.00	LS		
58	7	10" SDR 26, 0-8'	80.00	LF		
59	7	10" SDR 26, 16-20'	70.00	LF		
60	7	10" SDR 26, 8-12'	164.00	LF		
61	7	12" SDR 26, 0-8'	862.00	LF		
62	7	12" SDR 26, 16-20'	120.00	LF		
63	7	12" SDR 26, 20-24'	230.00	LF		
64	7	12" SDR 26, 8-12'	780.00	LF		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 004 – ALT 3						
65	7	15" SDR 26, 0-8'	477.00	LF		
66	7	15" SDR 26, 8-12'	184.00	LF		
67	7	Steel Encasement for PVC (incl. casing spacers and end seals)	80.00	LF		
68	7	4" SDR Sanitary Lateral Pipe	525.00	LF		
69	7	8" SDR 26, 0-8'	31.00	LF		
70	7	SDR-26 Wye, 12-inch x 4-inch	22.00	EA		
71	7	SDR-26 Wye, 16-inch x 4-inch	4.00	EA		
					SCHED 004 ALT 3 TOTAL =	

In addition to substituting PVC pipe and fittings in lieu of DI, alternate 4 also removes the rerouted sewer down Melrose and Northmont shown on plan sheets C-4 and C-5.

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 005 – ALT 4						
1	3	Clearing and Grubbing	0.90	AC		
2	4	Removal of Existing Trees	15.00	EA		
3	4	Concrete Piers at Stream Crossings	7.00	CY		
4	4	Inlet Protection	16.00	EA		
5	4	Permanent Seeding Std 3.32	10,430.00	SY		
6	4	Silt Fence	3,280.00	LF		
7	4	Stream Stabilization at Stream Crossings	1.00	LS		
8	4	Temporary Seeding, Std. 3.31	10,430.00	SY		
9	4	Utility Stream Crossings	4.00	EA		
10	7	10" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
11	7	10" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
12	7	10" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
13	7	10" PVC Pipe, 0-8'	17.00	LF		
14	7	10" Sewer Pipeline Abandonment	410.00	LF		
15	7	12" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
16	7	12" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
17	7	12" DI Pipe (Class 52), 20-24'	0.00	LF		0.00
18	7	12" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
19	7	16" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
20	7	16" DI Pipe (Class 52), 8-12'	0.00	LF		0.00

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 005 – ALT 4						
21	7	16" DI Rigid Restrained Joint (Mech-Lok) D.I. at Stream Crossing	0.00	LF		0.00
22	7	4" DI Sanitary Lateral Pipe (Class 52)	0.00	LF		0.00
23	7	8" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
24	7	8" Sewer Pipeline Abandonment	336.00	LF		
25	7	Concrete Encasement at Stream Crossings	15.00	LF		
26	7	Connect to Existing Manhole	2.00	EA		
27	7	DI Wye, 12-inch x 4-inch	0.00	EA		0.00
28	7	DI Wye, 16-inch x 4-inch	0.00	EA		0.00
29	7	Excavation of Rock	154.00	CY		
30	7	Extra Depth in 4' I.D. Manholes Beyond 8'	4.00	VF		
31	7	Extra Depth in 5' I.D. Inside Drop Manholes Beyond 8'	20.00	VF		
32	7	Extra Depth in 5' I.D. Manholes Beyond 8'	8.84	VF		
33	7	Foundation Stone, VDOT No. 5	87.00	TNS		
34	7	Inside Drop Manhole, 5' I.D. 0-8'	3.00	EA		
35	7	Manhole Abandonment	2.00	EA		
36	7	Manhole Rehabilitation	8.00	VF		
37	7	Manhole Removal and Disposal	4.00	EA		
38	7	Sanitary Cleanout Assembly	21.00	EA		
39	7	Slipline 10" Sewer w/ 6" HDPE and Grout Annual Space	95.00	LF		
40	7	Standard Manhole, 4' I.D.	15.00	EA		
41	7	Standard Manhole, 5' I.D.	5.00	EA		
42	7	Stone Backfill, VDOT No. 21B	3,950.00	TNS		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 005 – ALT 4						
43	7	Undercut/Disposal/Backfill Unsuitable Material	385.00	CY		
44	8	Repair of Existing Paved Concrete Driveways	0.00	SY		0.00
45	8	Replacement of Concrete Curb & Gutter	40.00	LF		
46	9	Asphalt Pavement Flush Patching	5.00	TNS		
47	9	Full Width Asphalt Overlay	355.00	TNS		
48	9	Pavement Milling	3,900.00	SY		
49	9	Saw Cut Existing Asphalt Pavement	1,800.00	LF		
50	9	Temporary Asphalt Pavement Patch (BM-25.0)	175.00	TNS		
51	10	Adjust Existing Water/Gas Valve Box to Grade	15.00	EA		
52	11	Mobilization/Demobilization	1.00	LS		
53	11	Survey Stakeout	1.00	LS		
54	12	Remove & Dispose Exist. Sheds	2.00	EA		
55	13	Residential Traffic Control	1.00	LS		
56	17	Tree Protection	13.00	EA		
57	18	Sanitary Sewer Bypass Pumping	1.00	LS		
58	7	10" SDR 26, 0-8'	80.00	LF		
59	7	10" SDR 26, 16-20'	70.00	LF		
60	7	10" SDR 26, 8-12'	164.00	LF		
61	7	12" SDR 26, 0-8'	862.00	LF		
62	7	12" SDR 26, 16-20'	120.00	LF		
63	7	12" SDR 26, 20-24'	13.00	LF		
64	7	12" SDR 26, 8-12'	362.00	LF		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 005 – ALT 4						
65	7	15" SDR 26, 0-8'	728.00	LF		
66	7	15" SDR 26, 8-12'	184.00	LF		
67	7	Steel Encasement for PVC (incl. casing spacers and end seals)	80.00	LF		
68	7	4" SDR Sanitary Lateral Pipe	242.00	LF		
69	7	8" SDR 26, 0-8'	31.00	LF		
70	7	SDR-26 Wye, 12-inch x 4-inch	14.00	EA		
71	7	SDR-26 Wye, 16-inch x 4-inch	4.00	EA		
					SCHED 005 ALT 4 TOTAL =	

In addition to substituting PVC pipe and fittings in lieu of DI, alternate 5 removes the work of replacing the pipeline from manhole ID 31205 to manhole ID "SMH-21" shown on plan sheets C-3, C-4, and C-5.

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 006 – ALT 5						
1	3	Clearing and Grubbing	0.45	AC		
2	4	Removal of Existing Trees	13.00	EA		
3	4	Concrete Piers at Stream Crossings	7.00	CY		
4	4	Inlet Protection	16.00	EA		
5	4	Permanent Seeding Std 3.32	8,030.00	SY		
6	4	Silt Fence	2,245.00	LF		
7	4	Stream Stabilization at Stream Crossings	1.00	LS		
8	4	Temporary Seeding, Std. 3.31	8,030.00	SY		
9	4	Utility Stream Crossings	2.00	EA		
10	7	10" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
11	7	10" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
12	7	10" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
13	7	10" PVC Pipe, 0-8'	17.00	LF		
14	7	10" Sewer Pipeline Abandonment	410.00	LF		
15	7	12" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
16	7	12" DI Pipe (Class 52), 16-20'	0.00	LF		0.00
17	7	12" DI Pipe (Class 52), 20-24'	0.00	LF		0.00
18	7	12" DI Pipe (Class 52), 8-12'	0.00	LF		0.00
19	7	16" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
20	7	16" DI Pipe (Class 52), 8-12'	0.00	LF		0.00

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 006 – ALT 5						
21	7	16" DI Rigid Restrained Joint (Mech-Lok) D.I. at Stream Crossing	0.00	LF		0.00
22	7	4" DI Sanitary Lateral Pipe (Class 52)	0.00	LF		0.00
23	7	8" DI Pipe (Class 52), 0-8'	0.00	LF		0.00
24	7	8" Sewer Pipeline Abandonment	336.00	LF		
25	7	Concrete Encasement at Stream Crossings	0.00	LF		0.00
26	7	Connect to Existing Manhole	2.00	EA		
27	7	DI Wye, 12-inch x 4-inch	0.00	EA		0.00
28	7	DI Wye, 16-inch x 4-inch	0.00	EA		0.00
29	7	Excavation of Rock	120.00	CY		
30	7	Extra Depth in 4' I.D. Manholes Beyond 8'	4.00	VF		
31	7	Extra Depth in 5' I.D. Inside Drop Manholes Beyond 8'	19.50	VF		
32	7	Extra Depth in 5' I.D. Manholes Beyond 8'	0.00	VF		0.00
33	7	Foundation Stone, VDOT No. 5	60.00	TNS		
34	7	Inside Drop Manhole, 5' I.D. 0-8'	2.00	EA		
35	7	Manhole Abandonment	2.00	EA		
36	7	Manhole Rehabilitation	8.00	VF		
37	7	Manhole Removal and Disposal	3.00	EA		
38	7	Sanitary Cleanout Assembly	14.00	EA		
39	7	Slipline 10" Sewer w/ 6" HDPE and Grout Annual Space	95.00	LF		
40	7	Standard Manhole, 4' I.D.	13.00	EA		
41	7	Standard Manhole, 5' I.D.	4.00	EA		
42	7	Stone Backfill, VDOT No. 21B	2,350.00	TNS		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 006 – ALT 5						
43	7	Undercut/Disposal/Backfill Unsuitable Material	300.00	CY		
44	8	Repair of Existing Paved Concrete Driveways	0.00	SY		0.00
45	8	Replacement of Concrete Curb & Gutter	30.00	LF		
46	9	Asphalt Pavement Flush Patching	5.00	TNS		
47	9	Full Width Asphalt Overlay	350.00	TNS		
48	9	Pavement Milling	3,900.00	SY		
49	9	Saw Cut Existing Asphalt Pavement	1,800.00	LF		
50	9	Temporary Asphalt Pavement Patch (BM-25.0)	175.00	TNS		
51	10	Adjust Existing Water/Gas Valve Box to Grade	15.00	EA		
52	11	Mobilization/Demobilization	1.00	LS		
53	11	Survey Stakeout	1.00	LS		
54	12	Remove & Dispose Exist. Sheds	2.00	EA		
55	13	Residential Traffic Control	1.00	LS		
56	17	Tree Protection	7.00	EA		
57	18	Sanitary Sewer Bypass Pumping	1.00	LS		
58	7	10" SDR 26, 0-8'	80.00	LF		
59	7	10" SDR 26, 16-20'	70.00	LF		
60	7	10" SDR 26, 8-12'	164.00	LF		
61	7	12" SDR 26, 0-8'	570.00	LF		
62	7	12" SDR 26, 16-20'	19.00	LF		
63	7	12" SDR 26, 20-24'	13.00	LF		
64	7	12" SDR 26, 8-12'	207.00	LF		

A	B	C	D	E	F	G
ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	SCHED QTY	UNIT	UNIT PRICE	TOTAL PRICE (D X F)
BID SCHEDULE 006 – ALT 5						
65	7	15" SDR 26, 0-8'	728.00	LF		
66	7	15" SDR 26, 8-12'	184.00	LF		
67	7	Steel Encasement for PVC (incl. casing spacers and end seals)	80.00	LF		
68	7	4" SDR Sanitary Lateral Pipe	195.00	LF		
69	7	8" SDR 26, 0-8'	31.00	LF		
70	7	SDR-26 Wye, 12-inch x 4-inch	7.00	EA		
71	7	SDR-26 Wye, 16-inch x 4-inch	4.00	EA		
					SCHED 006 ALT 5 TOTAL =	