

**CITY-WIDE SANITARY SEWER LINING & IMPROVEMENTS PROJECT – 2011
CITY OF FREEPORT WATER & SEWER COMMISSION
FREEPORT, IL**

ADDENDUM NO. 2

Modification to Bid Item No. 25, Sanitary Manhole Permanent Flow Meter: Modifications pertain to the revision of Bid item No. 25, Sanitary Manhole Permanent Flow Meter as found on Page 18 of 82. Bid Item No. 25, Sanitary Manhole Permanent Flow Meter has been revised to read, Bid Item No. 25, Sanitary Manhole Permanent Flow Meter, Complete. Complete is to be understood as furnished and installed with all appurtenances – turnkey. Please use it in preparing and submitting your bid.

Modification to Major Items of Equipment: Modifications pertain to the change in who shall install the Major Items of Equipment. Gasvoda & Associates, Inc. shall provide a full turnkey operation. Please use this information in preparing and submitting your bid.

Clarification to CIPP Lining 8” – 42” Dia. Sanitary Sewers: Only inversion method will be allowed, no pulling of the liners into position. Steam will be allowed on all pipes 15” diameter and smaller and that are 16’ deep or shallower. On larger diameter pipe and/or deeper than 16’, the Commission is requiring the line to be boiled. Please use this information in preparing and submitting your bid.

Clarification to Flow Rates in Sanitary Sewers: Clarification pertains to the flow rates in the Sanitary Sewers. A table has been attached to this addendum illustrating the 7 Day Average Dry Weather Flow and the 7 Day Maximum Flow for the general sanitary sewer collection system. Please use this information in preparing and submitting your bid.

Modification to Old Bid Item 19, Manhole Frame & Lid w/ Concealed Holes: Modifications pertain to the change in the title and number of Old Bid Item 19. It shall be: **Bid Item 20, Manhole Frame & Lid w/ Concealed Holes w/ No Pavement Restoration.** Please use this information in preparing and submitting your bid.

Modification to Bid Items – New Bid Item 20, Manhole Frame & Lid w/ Concealed Holes w/ Pavement Restoration: Modifications pertain to a new bid item. It shall be: **Bid Item 21, Manhole Frame & Lid w/ Concealed Holes w/ Pavement Restoration.** Please use this information in preparing and submitting your bid.

ADDENDUM NO. 2 CONTINUED

Page 1 of 3

City-Wide Sanitary Sewer Lining & Improvements Project – 2011

City of Freeport Water & Sewer Commission

Date: August 2, 2011

Modification to Old Bid Item 20, Manhole Frame, Bolted & Ventilating: Modifications pertain to the change in the title and number of Old Bid Item 20. It shall be: **Bid Item 22, Manhole Frame & Lid, Bolted & Ventilating w/ No Pavement Restoration.** Please use this information in preparing and submitting your bid.

Modification to Bid Item – New Bid Item 23, Manhole Frame & Lid, Bolted & Ventilating w/ Pavement Restoration: Modifications pertain to a new bid item. It shall be: **Bid Item 23, Manhole Frame & Lid, Bolted & Ventilating w/ Pavement Restoration.** Please use this information in preparing and submitting your bid.

Modification to Old Bid Item 50, Site Mobilization, Trunk Sewers Along Rivers & Creeks: Modifications pertain to the revision of the Unit. The revised Unit is Lump Sum (LS). The revised Bid Item Number is 53. The intent of the unit price is to compensate the Contractor for “inconvenience” some of the easement sites will be. It is the intent of this contract where crops are involved, that the work will take place during the time crops are not in the field (i.e., December – April). The Commission shall not pay for “Crop Damage” for any of the work sites in this Contract. Please use this information in preparing and submitting your bid.

Modification to Old Bid Item 51, Site Restoration, Trunk Sewers Along Rivers & Creeks: Modifications pertain to the revision of the Unit. The revised Unit is Lump Sum (LS). The revised Bid Item Number is 54. The intent of the unit price is to compensate the Contractor for restoration of the easement properties since some are in residential areas. It is the intent of this contract where crops are involved, that the work will take place during the time crops are not in the field (i.e., December – April). The Commission shall not pay for “Crop Damage” for any of the work sites in this Contract. Please use this information in preparing and submitting your bid.

Clarification of Manhole Depths: Clarification pertains to the known depths of the sanitary manholes in the project. Attached is a table listing the known depths of the sanitary manholes in the project. The remaining depths will be verified during the project. Typically, the sanitary manholes throughout the collection system are approximately 8’ – 12’ deep – of course with some shallower and others deeper.

Clarification of Unburying Manholes: Clarification pertains to whose responsibility will it be to unbury the buried manholes. It will be the responsibility of the Contractor to uncover and cover the buried manholes within the project scope.

ADDENDUM NO. 2 CONTINUED

Modification to Bid Item 17, Chemical Grouting of Sanitary Sewer Lines: Modifications pertain to the change in the title of Bid Item 17. It shall be: **Bid Item 17, Chemical Grouting of Sanitary Sewer Lines, 8” – 18” Diameters.** Please use this information in preparing and submitting your bid.

Modification to New Bid Item 18, Chemical Grouting of Sanitary Sewer Lines, 21” – 42” Diameters: Modifications pertain to a new bid item. It shall be: **New Bid Item 18, Chemical Grouting of Sanitary Sewer Lines, 21” – 42” Diameters.** Please use this information in preparing and submitting your bid.

Clarification of 4’ & 5” Dia. San. Manhole Rehabilitation Cementitious Structural Lining: Clarification pertains to the requirement of providing and installing an interior chimney seal on each manhole that is rehabilitated using a cementitious structural liner. The cost of the internal chimney seal shall be incidental to the cost of cementitious structural lining. Please use this information in preparing and submitting your bid.

Clarification Water Table in Freeport, IL: Clarification pertains to acknowledging the average water table depth in Freeport, IL. Depending on any one spot in Freeport, the weather conditions, the river stage, the creek stages, the water table can be anywhere from a couple of feet below the surface to 10’ or more below surface. Rule of thumb a higher water table can be expected along the river and creeks and in Basin 25 and Basin 29. Basin 25 and Basin 29 are known for an abundance of natural springs.

Modification to the Bid Form: Modifications pertain to the revision in the Bid Form as found on Page 18 of 82 – Page 29 of 82. A revised Bid Form has been included in this addendum. Please use it in preparing and submitting your bid.

FYI: All bid documents for this project are available on the City of Freeport Water & Sewer Commission’s website:

(www.cityoffreeport.org/departments/water_sewer.htm)

FYI: Just a reminder, Bids will be publicly opened and read aloud on August 12, 2011 at 2:00 p.m. in Council Chambers, 2nd floor, City Hall building, 230 W. Stephenson Street, Freeport, IL 61032. Bids must be submitted to the City Clerk’s office of the same address, 2nd floor.

END OF ADDENDUM NO. 2

**CITY WIDE SANITARY SEWER LINING & IMPROVEMENTS PROJECT
CITY OF FREEPORT WATER & SEWER COMMISSION**

8/1/2011

4' & 5' DIA. SANITARY MANHOLE INTERIOR REHABILITATIONS, COMPLETE

Basin #	Street	Cross Street	MH	4' Dia.	4' Dia. DEPTH (Near. FT.)	5' Dia. DEPTH (Near. FT.)
25	Lincoln	E. of Park	114	4	14	
25	McKinley	American	77	4	22	
25	Park	S. of Stephenson	1287	4		
25	Stewart	S. of Stephenson	725A	4	5	
25	Lincoln	Burchard	95A	4	6	
25	Lincoln	Harlem	95	4	9	
25	Lincoln	W. of Harlem	102	4	8	
25	Lincoln	W. of Harlem	102A	4	8	
25	Lincoln	E. of McKinley	103	4	8	
25	Harrison	W. of Rogers	40	4	6	
25	Harrison	Rogers	41	4	9	
25	Harrison	Park	42	4	11	
25	Harrison	Park	43	4	10	
25	Harrison	E. of Park	44	4	9	
25	Harrison	W. of Stewart	45	4	7	
25	Stewart	N. of Harrison	47	4	5	
25	Harrison	Stewart	46	4	9	
25	Harvey	N. of Harrison	50	4	4	
25	Harvey	N. of Harrison	49	4		
25	Harrison	Harvey	48	4	10	
25	Harvey	S. of Lincoln	112	4	4	
25	Harvey	S. of Lincoln	1367	4	7	
25	Elm	S. of Lincoln	52	4	11	
25	Elizabeth	Harrison	51	4	7	
25	Elizabeth	E. of Elm	53	4	7	
25	Pleasant	W. of Harlem	92	4	4	
25	Pleasant	W. of Harlem	91	4	5	
25	Pleasant	W. of McKinley	75A	4	7	
25	Pleasant	E. of Saxby	75	4	9	
25	Harrison	W. of Harlem	1364	4	6	
25	Harrison	W. of Harlem	89	4	9	
25	Harrison	McKinley	88	4	8	
25	Harrison	W. of McKinley	73	4	11	
25	Harrison	E. of Saxby	72	4	8	
25	Park	Stover	1288	4	8	
25	Park	Stover	1607	4		
25	Stover	E. of Park	22	4	8	
25	Stover	E. of Park	23	4	8	
25	Stover	Stewart	24	4	7	

Basin #	Street	Cross Street	MH	DIA.	4' Dia. DEPTH (Near. FT.)	5' Dia. DEPTH (Near. FT.)
25	Stover	E. of Stewart	25	4	6	
25	Stover	E. of Stewart	26	4	7	
25	Stover	W. of Saxby	27	4	8	
25	Stover	Saxby	26	4	7	
25	Stover	E. Saxby	36	4	7	
25	Stover	E. Saxby	37	4	7	
25	Stover	W. of McKinley	38	4	8	
25	Saxby	N. of Stover	29	4	8	
25	American	Park	1289	4		
25	Park	S. of American	1290	4		
25	Park	S. of American	1291	4		
25	American	W. of Benson	1608	4		
25	American	W. of Benson	2	4	8	
25	American	Benson	3	4	7	
25	American	Stewart	4	4	11	
25	American	School	12	4	10	
25	American	E. of School	16	4	9	
25	American	Homestead	17	4	9	
25	American	Saxby	58	4	9	
25	American	E. of Saxby	64	4	8	
25	American	W. of McKinley	65	4	8	
25	Benson	Easement	1292	4		
25	Benson	Easement	1183	4		
25	Benson	Easement	1365	4		
25	Benson	N. of Empire	6	4	7	
25	Benson	N. of Empire	5	4	10	
25	Benson	S. of American	1427	4		
25	Stewart	N. of Empire	11	4	7	
25	Stewart	N. of Empire	10	4	7	
25	Stewart	S. of American	9	4	10	
25	School	N. of Empire	15	4		
25	School	N. of Empire	14	4		
25	School	S. of American	13	4		
25	Homestead	N. of Empire	20	4		
25	Homestead	N. of Empire	19	4		
25	Homestead	S. of American	18	4		
25	Saxby	N. of Empire	155	4		
25	Saxby	N. of Violet	56	4	8	
25	Saxby	Palmer	57	4	20	
25	Saxby	N. of Palmer	1386	4	9	
25	Palmer	E. of Saxby	59	4	7	
25	Palmer	W. of McKinley	60	4	7	
25	Violet	E. of Saxby	63	4	8	
25	Violet	W. of McKinley	67	4	10	

Basin #	Street	Cross Street	MH	DIA.	4' Dia. DEPTH (Near. FT.)	5' Dia. DEPTH (Near. FT.)
25	Empire	Park	1335	4		
25	Empire	Benson	7	4	5	
25	Empire	Benson	8	4	6	
25	Empire	W. of Stewart	147	4		
25	Empire	Stewart	148	4		
25	Empire	W. of School	149	4		
25	Empire	School	150	4		
25	Empire	Homestead	21	4		
25	Empire	Saxby	151	4		
25	Empire	E. of Saxby	152	4		
25	Empire	E. of Saxby	153	4		
20	Sioux	Easement	2013	4	10	
20	Cheyenne	E. of Greenfield	2114	4	17	
20	Cheyenne	E. of Greenfield	2113	4	16	
20	Greenfield	Cul-de-sac	2123	4		
20	Greenfield	W. of Longhorn	2122	4		
20	Greenfield	E. of Longhorn	2121	4		
20	Greenfield	E. of Longhorn	1808	4		
20	Greenfield	E. of Longhorn	2120	4		
20	Greenfield	Easement	2126	4		
20	Greenfield	Longhorn	2125	4		
20	Greenfield	Easement	2124	4		
20	Canyon	E. of Appaloosa	2354	4		
20	Canyon	Canyon	2353	4		
20	Canyon	N. of Canyon	2352	4		
20	Canyon	N. of Canyon	2351	4		
20	Canyon	N. of Canyon	2350	4		
20	Apache	E. of Appaloosa	2349	4		
20	Apache	Appaloosa	2305	4		
20	Apache	W. of Appaloosa	2306	4		
20	Appaloosa	N. of Canyon	2309	4		
20	Appaloosa	N. of Canyon	2308	4		
20	Appaloosa	S. of Apache	2307	4		
20	Appaloosa	Easement	2304	4		
20	Apache	Easement	2263	4		
20	Arapaho	N. of Apache	2262	4		
20	Arapaho	Cul-de-sac	2264	4		
20	Arapaho	Apache	2265	4		
20	Arapaho	S. of Apache	2266	4		
20	Arapaho	N. of Canyon	2267	4		
20	Arapaho	N. of Canyon	2268	4		
20	Hillside	E. of Moss Canyon	2290	4		
20	Hillside	Cul-de-sac	2289	4		
20	Hillside	Easement	2288	4		

Basin #	Street	Cross Street	MH	DIA.	4' Dia. DEPTH (Near. FT.)	5' Dia. DEPTH (Near. FT.)
20	Hillside	Easement	2248	4		
20	Hillside	Easement	2247	4		
20	Moss Canyon	NW of Hillside	2293	4		
20	Moss Canyon	Barley Ridge	2294	4		
20	Barley Ridge	S. of Moss Canyon	2295	4		
20	Barley Ridge	N. of Haymaker	2319	4		
20	Barley Ridge	Haymaker	2320	4		
29	Park	Ease. thru Country Club	1687	4	12	
29	Krape Park	Ease. thru Krape Park	1655	4	9	
29	Krape Park	Ease. thru Krape Park	1664	4	8	
29	Krape Park	Ease. thru Krape Park	1663	4	7	
29	Krape Park	Ease. thru Krape Park	1655	4	11	
29	Krape Park	Ease. thru Krape Park	1698	5		
29	Krape Park	Ease. thru Krape Park	1699	5		
29	Krape Park	Ease. thru Krape Park	1700	5		
29	Krape Park	Ease. thru Krape Park	1701	5		
29	Krape Park	Ease. thru Krape Park	1702	5		
29	Krape Park	Ease. thru Krape Park	1703	5		
29	Krape Park	Ease. thru Krape Park	1704	5		
29	Krape Park	Ease. thru Krape Park	1705	5		
29	Krape Park	Ease. thru Krape Park	1706	5		
29	Krape Park	Ease. thru Krape Park	1707	5		
29	Krape Park	Ease. thru Krape Park	1708	5		
29	Krape Park	Ease. thru Krape Park	1709	5		
29	Krape Park	Ease. thru Krape Park	1710	5		
29	Krape Park	Ease. thru Krape Park	1711	5		
29	Krape Park	Ease. thru Krape Park	1712	5		
29	Krape Park	Ease. thru Krape Park	1713	5		
29	Krape Park	Ease. thru Krape Park	1714	5		
29	Krape Park	Ease. thru Krape Park	1715	5		
29	Krape Park	Ease. thru Krape Park	1716	5		
29	Krape Park	Ease. thru Krape Park	1717	5		
29	Krape Park	Ease. thru Krape Park	1718	5		
29	Krape Park	Ease. thru Krape Park	1719	5		
29	Krape Park	Ease. thru Krape Park	1720	5		
29	Krape Park	Ease. thru Krape Park	2158	5		
29	Krape Park	Ease. thru Krape Park	1721	5		
29	Krape Park	Ease. thru Krape Park	1722	5		
29	Krape Park	Ease. thru Krape Park	1723	5		
29	Krape Park	Ease. thru Krape Park	1724	5		
29	Krape Park	Ease. thru Krape Park	1725	5		
29	Krape Park	Ease. thru Krape Park	1687	4		
29	Krape Park	Ease. thru Krape Park	2274	4		
29	Krape Park	Ease. thru Krape Park	1665	4		

Basin #	Street	Cross Street	MH	DIA.	4' Dia. DEPTH (Near. FT.)	5' Dia. DEPTH (Near. FT.)
29	Krape Park	Ease. thru Krape Park	1666	4		
29	Krape Park	Ease. thru Krape Park	1667	4		
29	Krape Park	Ease. thru Krape Park	1668	4		
29	Krape Park	Ease. thru Krape Park	1669	4		
29	Krape Park	Ease. thru Krape Park	1670	4		
29	Forest	Fairgrounds	2198	4		
6	Walnut	S. of Fairgrounds	1948	4	6	
6	Walnut	S. of Fairgrounds	1587	4	6	
6	Landfill	Easement	1581	4		
6	Landfill	Easement	1580	4		
6	Landfill	Easement	1579	4		
6	Landfill	Easement	1578	4		
6	Yellow Creek	Easement	1577	5		
6	Yellow Creek	Easement	1576	5		
6	Yellow Creek	Easement	1737	5		
6	Yellow Creek	Easement	1738	5		
6	Yellow Creek	Easement	1739	5		
6	Yellow Creek	Easement	1740	5		
6	Yellow Creek	Easement	1741	5		
6	Yellow Creek	Easement	1742	5		
6	Yellow Creek	Easement	1743	5		
6	Yellow Creek	Easement	1474	5		
6	Yellow Creek	Easement	1745	5		
6	Yellow Creek	Easement	1746	5		
6	Yellow Creek	Easement	1747	5		
16	Structo Line	S. of IL 75	1478	4	5	
16	Structo Line	Easement	1483	4	9	
16	Structo Line	Easement	1485	4	14	
16	Structo Line	Easement	1486	4	7	
16	Structo Line	Easement	1487	4	12	
16	Structo Line	Easement	1488	4		
16	Structo Line	Easement	1489	4		
16	Structo Line	River Siphon	1490	4		
16	Structo Line	River Siphon	1490A	4		
1	Sheridan	N. Side of River	1795	4		
1	Sheridan	S. Side of River	1796	5		
1	Pec River	S. Side of River	1794	5		
1	Hancock	S. Side of River	1793	5		
1	Pec River	S. Side of River	1792	5		
1	Hancock	Easement	1791	5		
1	Hancock	Easement	1790	5		
1	Hancock	Easement	1789	5		
1	Hancock	Easement	1788	5		
1	Henderson	Crocker	977	4	13	

Basin #	Street	Cross Street	MH	DIA.	4' Dia. DEPTH (Near. FT.)	5' Dia. DEPTH (Near. FT.)
1	Henderson	Crocker	978	4	9	
1	Sherman	N. of Jackson	1006	4	8	
1	Sherman	Jackson	1007	4	9	
1	Louis	N. of Stephenson	2186	4		
1	Louis	N. of Stephenson	2185	4		
11	Tutty's Crossing	Easement	1809	5		
11	Stephenson	W. Side of River	1807	5		
11	S. of Stephenson	Easement	904	5		
11	Benton	S. of Stephenson	1805	5		
11	Benton	S. of Main	928	5		12
11	Benton	W. Side of River	1802	5		
11	Benton	Siphon	1801A	5		
13	Galena	W. of Whistler	1845	4		
13	Galena	W. of Whistler	1844	4		
13	Galena	E. of Whistler	1128	4	8	
13	Galena	E. of Whistler	1129	4	8	
13	Galena	Foley	1130	4	9	
13	Galena	Trunk	1131	4	9	
13	Galena	E. of Trunk	1132	4	10	
13	Galena	West	1133	4		
13	Galena	Railroad	1134	4		
13	Galena	W. of Lemon	1135	4		
13	Galena	Lemon	1136	4		
13	Galena	Fern	1137	4		
13	Galena	Nursery	1138	4		
13	Galena	Brick	1139	4		
13	Galena	E. of Apple	1140	4		
13	Galena	Walnut	1141	4		
13	Galena	Linden	1142	4		
13	Linden	Van Buren	1034	4		
13	Linden	Van Buren	1018	4	11	
13	Linden	E. of Van Buren	1020	4	11	
13	Linden	E. of Van Buren	1021	4	16	
13	Linden	RxR tracks	1022	5		14
13	Linden	RxR tracks	1023	5		
13	Galena	W. of Foley	1143	4		
4	Lincoln	South End	1750	5		
4	Lincoln	Easement	1751	5		
4	Lincoln	Easement	1752	5		
4	Lincoln	Easement	1753	5		
4	Lincoln	Easement	1754	5		
4	Lincoln	Easement	1755	5		
4	Lincoln	Easement	1756	5		
4	Lincoln	Easement	1757	5		

Basin #	Street	Cross Street	MH	DIA.	4' Dia. DEPTH (Near. FT.)	5' Dia. DEPTH (Near. FT.)
4	Lincoln	Easement	1758	5		
4	Lincoln	Easement	1759	5		
4	Bus. Rte. 20	Adams	1760	5		
4	Bus. Rte. 20	Adams	1761	5		
32	Stephenson	N. of Stephenson	1207	4		
32	Stephenson	N. of Stephenson	1204	4		
32	Stephenson	S. of Stephenson	1806	5		
32	Stephenson	S. of Stephenson	1804	5		
32	Stephenson	S. of Stephenson	1803	5		
32	Stephenson	S. of Stephenson	1801	5		
	TOTALS TO DATE				822	26

**Manhole Dry & Wet Flows
City of Freeport**

Manhole	Diameter (inches)	7 Day Av. Dry Weather Flow (GPD)	7 Day Av. Max Flow (GPD)
938	12	87,815	104,897
545	8	44	249
531	8	3,075	7,992
967	12	60,690	6,889
2110	10	117,560	180,369
1830	8	48,815	53,920
1217	10	89,300	94,513
1724	36	1,057,026	1,233,724
1731	36	826,008	946,624
1576	24	230,742	278,280
488	12	277,702	314,395
474A	15	120,393	250,903
1022	18	676,946	1,089,739
1758	42	1,531,782	2,494,637
1718	30	1,326,403	281,763
1490	15	53,800	2,509,598
1777	42	2,945,449	3,518,997
1778	18	Bad Data	
1683	12	1,309,677	1,426,052
1659	15	18,224	40,111
693	12	8,510	20,963
331	10	Bad Data	
1403	12	113,634	166,370
1567	12	Bad Data	
989	8	Bad Data	

Manhole	Diameter (inches)	7 Day Av. Dry Weather Flow (GPD)	7 Day Av. Max Flow (GPD)
1034	8	51,685	104,188
1182	12	91,136	138,884
2260	8	12,789	14,602
2112	8	18,555	49,524
2114	8	8,840	22,428
1886	10	193,411	237,009
1906	8	4,990	11,693
1891	8	73,851	98,397
1890	8	13,416	23,687
2012	8	No Data	
1745	36	787,079	1,962,033
1672	18	Bad Data	
1747	42	1,782,720	2,194,295
626	24	Bad Data	
1502	12	72,720	110,976
665	12	116,018	184,079
1002	12	230,013	346,368
1101	10	282,424	340,262
1587	18	196,492	629,431
577A	24	87,552	113,567
616	24	223,998	253,863
1637	15	101,163	126,028
1628	10	96,730	145,171

CITY WIDE SANITARY SEWER LINING & IMPROVEMENTS PROJECT

8/1/2011

ADDENDUM 2 - REVISED BID FORM

No.	Item	Unit	Est. Qty.	Unit Price	Cost
1	Heavy Clean and Televis 8" - 24" Dia. Sewer	L.F.	53000		
2	Heavy Clean and Televis 30" Dia. Sewer Pipe	L.F.	3710		
3	Heavy Clean and Televis 36" Dia. Sewer Pipe	L.F.	4850		
4	Heavy Clean and Televis 42" Dia. Sewer Pipe	L.F.	4970		
5	Cured-In-Place Lining, 8" Dia.	L.F.	35753		
6	Cured-In-Place Lining, 10" Dia.	L.F.	1665		
7	Cured-In-Place Lining, 12" Dia.	L.F.	5832		
8	Cured-In-Place Lining, 15" Dia.	L.F.	11089		
9	Cured-In-Place Lining, 18" Dia.	L.F.	6228		
10	Cured-In-Place Lining, 21" Dia.	L.F.	1280		
11	Cured-In-Place Lining, 24" Dia.	L.F.	1420		
12	Cured-In-Place Lining, 30" Dia.	L.F.	3710		
13	Cured-In-Place Lining, 36" Dia.	L.F.	4850		
14	Cured-In-Place Lining, 42" Dia.	L.F.	4970		
15	Service Reinstatements	Ea.	500		
16	Grind Flush Protruding Services	Ea.	100		
17	Chemical Grouting of Sanitary Sewer Lines, 8" - 18" Diameters	Gal.	500		
18	Chemical Grouting of Sanitary Sewer Lines, 21" - 42" Diameters	Gal.	500		
19	Chemical Grouting of Manholes	Gal.	2500		
20	Manhole Frame & Lid w/ Concealed Holes w/ No Pavement Replacement	Ea.	75		
21	Manhole Frame & Lid w/ Concealed Holes w/ Pavement Replacement	Ea.	75		
22	Manhole Frame & Lid, Bolted & Ventilating w/ No Pavement Removal	Ea.	25		
23	Manhole Frame & Lid, Bolted & Ventilating w/ Pavement Removal	Ea.	25		
24	4' Dia. Sanitary Manhole Rehabilitation Cementitious Structural Liner	V.F.	2146		
25	5' Dia. Sanitary Manhole Rehabilitation Cementitious Structural Liner	V.F.	1050		
26	4' Dia. Sanitary Manhole Removal & Replacement, Complete	Ea.	1		
27	5' Dia. Sanitary Manhole Removal & Replacement, Complete	Ea.	1		
28	Sanitary Manhole Permenant Flow Meter, Complete	Ea.	40		
29	4' Dia. Sanitary Manhole Adjustments, Complete	Ea.	3		
30	5' Dia. Sanitary Manhole Adjustments, Complete	Ea.	1		

31	Point Repair Dia. 8" - 18", Complete up to Surface Restoration, up to 12' Deep	Ea.	1		
32	Point Repair 8" - 18", Complete up to Surface Restoration, 12' - 20' Deep	Ea.	1		
33	Point Repair 8" - 18", Complete up to Surface Restoration, 21' - 30' Deep	Ea.	1		
34	Point Repair 21" - 42", Complete up to Surface Restoration, up to 12' Deep	Ea.	1		
35	Point Repair 21" - 42", Complete up to Surface Restoration, 12' - 20' Deep	Ea.	1		
36	Point Repair 21" - 42", Complete up to Surface Restoration, 21' - 30' Deep	Ea.	1		
37	Point Repair Grass Surface Restoration, Complete	S.F.	400		
38	Point Repair Full Depth Patch Surface Restoration, Complete	S.Y.	45		
39	Point Repair Concrete Patch Surface Restoration, Complete	S.Y.	45		
40	Point Repair Bituminous Material Patch, Local Roads, Surface Restoration, Complete	S.Y.	45		
41	Point Repair Bituminous Material Patch, IDOT Roads, Surface Restoration, Complete	S.Y.	45		
42	8" SDR 26 ASTM D2241 PVC Sanitary Sewer Pipe	L.F.	20		
43	10" SDR 26 ASTM D2241 PVC Sanitary Sewer Pipe	L.F.	20		
44	12" SDR 26 ASTM D2241 PVC Sanitary Sewer Pipe	L.F.	20		
45	15" SDR 26 ASTM D2241 PVC Sanitary Sewer Pipe	L.F.	20		
46	18" SDR 26 ASTM D2241 PVC Sanitary Sewer Pipe	L.F.	20		
47	21" ASTM F679 PVC Sanitary Sewer Pipe	L.F.	20		
48	24" ASTM F679 PVC Sanitary Sewer Pipe	L.F.	20		
49	30" ASTM F679 PVC Sanitary Sewer Pipe	L.F.	20		
50	36" ASTM F679 PVC Sanitary Sewer Pipe	L.F.	20		
51	42" Reinforced Concrete Sanitary Sewer Pipe, O-Ring Joint	L.F.	20		
52	Hot Mix Asphalt Surface Course, 1"	S.Y.	240		
53	Site Mobilization, Trunk Sewers Along Rivers & Creeks	L.S.	1		
54	Site Restoration, Trunk Sewers Along Rivers & Creeks	L.S.	1		
55	Bypass Pumping, Siphons Only	Day	20		
	TOTAL				