

CITY OF RAPID CITY CONSTRUCTION CHANGE ORDER #2
CANYON LAKE DRIVE & SOO SAN DRIVE 14" WATER MAIN LIME CREEK ELEMENT 382
PROJECT NO. W06-1562/CIP 50598

PW091107-06

August 30, 2007

ORIGINAL CONTRACT AMOUNT: \$1,689,435.30

CONTRACTOR: Mainline Contracting

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE
1	Reestablish Property Corners	EA	7.00	\$160.00	\$1,120.00	7.00	\$1,120.00	\$0.00
2	Mobilization	LS	1.00	\$24,000.00	\$24,000.00	1.00	\$24,000.00	\$0.00
3	Incidental Work	LS	1.00	\$25,000.00	\$25,000.00	1.00	\$25,000.00	\$0.00
4	Traffic Control Plan	LS	1.00	\$600.00	\$600.00	1.00	\$600.00	\$0.00
5	Traffic Control	LS	1.00	\$8,300.00	\$8,300.00	1.00	\$8,300.00	\$0.00
6	Flagging	Hours	100.00	\$19.00	\$1,900.00	100.00	\$1,900.00	\$0.00
7	Clearing and Grubbing	LS	1.00	\$6,400.00	\$6,400.00	1.00	\$6,400.00	\$0.00
8	Tree Removal 12"-24"	EA	16.00	\$350.00	\$5,600.00	12.00	\$4,200.00	(\$1,400.00)
9	Tree Removal 24"-36"	EA	7.00	\$590.00	\$4,130.00	7.00	\$4,130.00	\$0.00
10	Private Utility Coordination	LS	1.00	\$500.00	\$500.00	1.00	\$500.00	\$0.00
11	Remove Existing PCC Pavement	SY	1,283.00	\$8.50	\$10,905.50	1,283.00	\$10,905.50	\$0.00
12	Remove Existing Asphalt Pavement	SY	5,361.00	\$3.85	\$20,639.85	5,361.00	\$20,639.85	\$0.00
13	Mill and Remove Top 2" of Existing Asphalt	SY	386.00	\$1.75	\$675.50	386.00	\$675.50	\$0.00
14	Remove Existing Curb and Gutter	LF	1,029.00	\$4.00	\$4,116.00	1,029.00	\$4,116.00	\$0.00
15	Remove Existing Concrete Driveway	SY	321.00	\$6.00	\$1,926.00	321.00	\$1,926.00	\$0.00
16	Remove Existing Sidewalk	SF	3,375.00	\$1.25	\$4,218.75	3,375.00	\$4,218.75	\$0.00
17	Remove Existing Concrete Drain Pan	SY	43.00	\$6.00	\$258.00	43.00	\$258.00	\$0.00
18	Remove Existing Concrete Fillet and Pan	SY	81.00	\$6.00	\$486.00	81.00	\$486.00	\$0.00
19	Remove Existing Concrete Box Culvert Wingwall	LS	1.00	\$2,000.00	\$2,000.00	1.00	\$2,000.00	\$0.00
20	Remove Existing Concrete Slab, Spillway, Riprap, and 12" RCP	LS	1.00	\$950.00	\$950.00	1.00	\$950.00	\$0.00
21	Remove Existing 5' Sioux Falls Inlet	EA	1.00	\$200.00	\$200.00	1.00	\$200.00	\$0.00
22	Remove Existing 15" RCP Storm Sewer	LF	44.00	\$12.00	\$528.00	55.00	\$660.00	\$132.00
23	Remove and Salvage Existing Wooden Bridge	LS	1.00	\$600.00	\$600.00	1.00	\$600.00	\$0.00
24	Remove Existing Water Valve and Valve Box	EA	25.00	\$250.00	\$6,250.00	10.00	\$2,500.00	(\$3,750.00)
25	Remove Existing Fire Hydrant, Aux. Valve and Box	EA	3.00	\$250.00	\$750.00	3.00	\$750.00	\$0.00
26	Remove Existing Curb Stop	EA	23.00	\$30.00	\$690.00	23.00	\$690.00	\$0.00
27	Abandon Existing Valve Box	EA	4.00	\$25.00	\$100.00	19.00	\$475.00	\$375.00
28	Remove Existing Sewer Manhole	EA	1.00	\$450.00	\$450.00	1.00	\$450.00	\$0.00
29	Remove Existing Sewer Cleanout	EA	1.00	\$25.00	\$25.00	1.00	\$25.00	\$0.00
30	Sheridan Lake Road 12" Water Main Abandonment	LS	1.00	\$825.00	\$825.00	1.00	\$825.00	\$0.00
31	Demolition at 3411 W. Main	LS	1.00	\$2,900.00	\$2,900.00	1.00	\$2,900.00	\$0.00
32	Lime Creek Channel Grading	LS	1.00	\$6,000.00	\$6,000.00	1.00	\$6,000.00	\$0.00
33	Roadway Grading	LS	1.00	\$16,500.00	\$16,500.00	1.00	\$16,500.00	\$0.00
34	Imported Backfill Material (Trench)	CY	350.00	\$12.00	\$4,200.00	350.00	\$4,200.00	\$0.00

35	Type 1 Bedding Material	Ton	300.00	\$14.00	\$4,200.00	300.00	\$4,200.00	\$0.00
36	Type 4 Foundation Material	Ton	700.00	\$25.00	\$17,500.00	700.00	\$17,500.00	\$0.00
37	Water for Dust Control	M GAL	200.00	\$25.00	\$5,000.00	200.00	\$5,000.00	\$0.00
38	14" PVC Water Main	LF	5,395.00	\$41.00	\$221,195.00	5,395.00	\$221,195.00	\$0.00
39	14" DI Water Main	LF	267.00	\$50.00	\$13,350.00	200.00	\$10,000.00	(\$3,350.00)
40	8" PVC Water Main	LF	991.00	\$23.00	\$22,793.00	991.00	\$22,793.00	\$0.00
41	6" PVC Water Main	LF	354.00	\$20.00	\$7,080.00	354.00	\$7,080.00	\$0.00
42	4" PVC Water Service	LF	28.00	\$18.00	\$504.00	0.00	\$0.00	(\$504.00)
43	1" Type K Copper Water Service Line	LF	1,370.00	\$21.00	\$28,770.00	1,370.00	\$28,770.00	\$0.00
44	14" Gate Valve and Box	EA	21.00	\$4,600.00	\$96,600.00	21.00	\$96,600.00	\$0.00
45	8" Gate Valve and Box	EA	8.00	\$950.00	\$7,600.00	8.00	\$7,600.00	\$0.00
46	6" Gate Valve and Box	EA	2.00	\$675.00	\$1,350.00	2.00	\$1,350.00	\$0.00
47	14" High Deflection Coupling	EA	23.00	\$425.00	\$9,775.00	7.00	\$2,975.00	(\$6,800.00)
48	8" High Deflection Coupling	EA	1.00	\$115.00	\$115.00	1.00	\$115.00	\$0.00
49	6" High Deflection Coupling	EA	2.00	\$70.00	\$140.00	3.00	\$210.00	\$70.00
50	14" x 11.25 Degree Bend	EA	4.00	\$770.00	\$3,080.00	5.00	\$3,850.00	\$770.00
51	14" x 22.5 Degree Bend	EA	8.00	\$765.00	\$6,120.00	8.00	\$6,120.00	\$0.00
52	14" x 45 Degree Bend	EA	9.00	\$740.00	\$6,660.00	11.00	\$8,140.00	\$1,480.00
53	14" x 90 Degree Bend	EA	4.00	\$850.00	\$3,400.00	4.00	\$3,400.00	\$0.00
54	12" x 90 Degree Bend	EA	1.00	\$1,450.00	\$1,450.00	1.00	\$1,450.00	\$0.00
55	8" x 90 Degree Bend	EA	5.00	\$325.00	\$1,625.00	5.00	\$1,625.00	\$0.00
56	8" x 45 Degree Bend	EA	11.00	\$270.00	\$2,970.00	11.00	\$2,970.00	\$0.00
57	8" x 11.25 Degree Bend	EA	1.00	\$267.00	\$267.00	1.00	\$267.00	\$0.00
58	6" x 90 Degree Bend	EA	2.00	\$840.00	\$1,680.00	2.00	\$1,680.00	\$0.00
59	6" x 45 Degree Bend	EA	7.00	\$180.00	\$1,260.00	7.00	\$1,260.00	\$0.00
60	6" x 22.5 Degree Bend	EA	1.00	\$180.00	\$180.00	1.00	\$180.00	\$0.00
61	6" x 11.25 Degree Bend	EA	2.00	\$184.00	\$368.00	2.00	\$368.00	\$0.00
62	4" x 45 Degree Bend	EA	8.00	\$325.00	\$2,600.00	0.00	\$0.00	(\$2,600.00)
63	8" Water Main Cap	EA	1.00	\$315.00	\$315.00	1.00	\$315.00	\$0.00
64	14" x 14" x 6" Tee	EA	11.00	\$900.00	\$9,900.00	11.00	\$9,900.00	\$0.00
65	14" x 14" x 8" Tee	EA	5.00	\$1,030.00	\$5,150.00	5.00	\$5,150.00	\$0.00
66	14" x 14" x 12" Tee	EA	2.00	\$1,200.00	\$2,400.00	1.00	\$1,200.00	(\$1,200.00)
67	14" x 14" x 14" Tee	EA	2.00	\$1,250.00	\$2,500.00	3.00	\$3,750.00	\$1,250.00
68	8" x 8" x 6" Tee	EA	3.00	\$345.00	\$1,035.00	3.00	\$1,035.00	\$0.00
69	6" x 6" x 6" Tee	EA	1.00	\$275.00	\$275.00	1.00	\$275.00	\$0.00
70	14" x 14" x 14" Tapping Sleeve, Valve and Box	EA	1.00	\$10,125.00	\$10,125.00	1.00	\$10,125.00	\$0.00
71	6" x 6" x 6" Tapping Sleeve, Valve and Box	EA	2.00	\$2,025.00	\$4,050.00	2.00	\$4,050.00	\$0.00
72	Fire Hydrant, Lead, Aux. Valve and Box	EA	14.00	\$3,025.00	\$42,350.00	14.00	\$42,350.00	\$0.00
73	Fire Hydrant Protection Bollard	EA	12.00	\$425.00	\$5,100.00	12.00	\$5,100.00	\$0.00
74	14" x 14" x 8" x 8" Cross	EA	1.00	\$2,160.00	\$2,160.00	1.00	\$2,160.00	\$0.00

75	14" x 10" Reducer	EA	1.00	\$640.00	\$640.00	1.00	\$640.00	\$0.00
76	14" x 6" Reducer	EA	3.00	\$600.00	\$1,800.00	3.00	\$1,800.00	\$0.00
77	8" x 6" Reducer	EA	10.00	\$215.00	\$2,150.00	10.00	\$2,150.00	\$0.00
78	1" Tapping Saddle	EA	24.00	\$250.00	\$6,000.00	24.00	\$6,000.00	\$0.00
79	1" Curb Stop	EA	24.00	\$325.00	\$7,800.00	24.00	\$7,800.00	\$0.00
80	Water Service Reconnection	EA	24.00	\$325.00	\$7,800.00	24.00	\$7,800.00	\$0.00
81	Concrete Water Main Encasement	LF	466.00	\$28.00	\$13,048.00	466.00	\$13,048.00	\$0.00
82	24" Steel Casing Pipe - Bored and Jacked	LF	115.00	\$300.00	\$34,500.00	115.00	\$34,500.00	\$0.00
83	18" Sanitary Sewer Main Repair	LS	1.00	\$3,000.00	\$3,000.00	1.00	\$3,000.00	\$0.00
84	Sewer Manhole (48")	EA	2.00	\$2,200.00	\$4,400.00	2.00	\$4,400.00	\$0.00
85	Sewer Manhole Extra Depth	LF	6.70	\$210.00	\$1,407.00	6.70	\$1,407.00	\$0.00
86	8" PVC Sanitary Sewer (6' - 8')	LF	144.00	\$24.00	\$3,456.00	134.00	\$3,216.00	(\$240.00)
87	8" PVC Sanitary Sewer (8' - 10')	LF	128.00	\$29.00	\$3,712.00	128.00	\$3,712.00	\$0.00
88	8" PVC Sanitary Sewer (10' - 12')	LF	145.00	\$33.00	\$4,785.00	145.00	\$4,785.00	\$0.00
89	8" PVC Sanitary Sewer (12' - 14')	LF	138.00	\$39.00	\$5,382.00	138.00	\$5,382.00	\$0.00
90	4" PVC Sanitary Sewer Service Line	LF	358.00	\$21.00	\$7,518.00	358.00	\$7,518.00	\$0.00
91	Sewer Cleanout	EA	2.00	\$225.00	\$450.00	2.00	\$450.00	\$0.00
92	Sewer Service Reconnection	EA	13.00	\$500.00	\$6,500.00	13.00	\$6,500.00	\$0.00
93	Adjust Manhole Rim	EA	1.00	\$400.00	\$400.00	1.00	\$400.00	\$0.00
94	Water Main Insulation	SF	336.00	\$5.00	\$1,680.00	336.00	\$1,680.00	\$0.00
95	Lime Creek Crossing - 14" Main	LS	1.00	\$11,350.00	\$11,350.00	1.00	\$11,350.00	\$0.00
96	10' x 4' Precast Box Culvert	LF	220.00	\$580.00	\$127,600.00	191.00	\$110,780.00	(\$16,820.00)
97	10' x 4' Precast Box Culvert Bend Section	EA	22.00	\$4,200.00	\$92,400.00	26.00	\$109,200.00	\$16,800.00
98	10' x 4' Precast Box Culvert End Section	EA	1.00	\$5,200.00	\$5,200.00	1.00	\$5,200.00	\$0.00
99	Pipe Handrail	LF	45.00	\$46.00	\$2,070.00	45.00	\$2,070.00	\$0.00
100	CIP Box Culvert Inlet	LS	1.00	\$42,000.00	\$42,000.00	1.00	\$42,000.00	\$0.00
101	Box Culvert Undercut	CY	408.00	\$25.00	\$10,200.00	408.00	\$10,200.00	\$0.00
102	Box Culvert Undercut Drainage Fabric	SY	565.00	\$2.30	\$1,299.50	565.00	\$1,299.50	\$0.00
103	18" RCP, Class 2	LF	57.00	\$46.00	\$2,622.00	57.00	\$2,622.00	\$0.00
104	15" RCP, Class 2	LF	19.00	\$45.00	\$855.00	30.00	\$1,350.00	\$495.00
105	Gabions	CY	32.00	\$160.00	\$5,120.00	32.00	\$5,120.00	\$0.00
106	Class I Riprap	TON	41.00	\$41.00	\$1,681.00	41.00	\$1,681.00	\$0.00
107	Class I Grouted Riprap	TON	477.00	\$45.00	\$21,465.00	477.00	\$21,465.00	\$0.00
108	5' Type E Inlet	EA	1.00	\$4,200.00	\$4,200.00	1.00	\$4,200.00	\$0.00
109	10' Type E Inlet	EA	3.00	\$5,400.00	\$16,200.00	3.00	\$16,200.00	\$0.00
110	Travel Gravel	Ton	400.00	\$12.00	\$4,800.00	400.00	\$4,800.00	\$0.00
111	Aggregate Base Course	Ton	2,878.00	\$15.00	\$43,170.00	2,878.00	\$43,170.00	\$0.00
112	Asphalt Concrete, Class G, Type 1	Ton	2,040.00	\$81.00	\$165,240.00	2,040.00	\$165,240.00	\$0.00
113	Bituminous Tack Coat	Gal	670.00	\$4.30	\$2,881.00	670.00	\$2,881.00	\$0.00
114	Dowell Bar Assembly	LF	466.00	\$11.00	\$5,126.00	466.00	\$5,126.00	\$0.00

115	Concrete Panel Replacement - 8" Thick PCC Pavement	SY	409.00	\$56.00	\$22,904.00	409.00	\$22,904.00	\$0.00
116	Concrete Panel Replacement - 7" Thick PCC Pavement	SY	873.00	\$52.00	\$45,396.00	873.00	\$45,396.00	\$0.00
117	PCC Pavement, Saw & Hot Tar Seal Joints	LF	924.00	\$3.20	\$2,956.80	924.00	\$2,956.80	\$0.00
118	Concrete Curb and Gutter	LF	859.00	\$22.00	\$18,898.00	859.00	\$18,898.00	\$0.00
119	Concrete Type P6 Gutter	LF	175.00	\$22.00	\$3,850.00	175.00	\$3,850.00	\$0.00
120	Concrete Driveway Pavement, 4"	SY	176.00	\$55.00	\$9,680.00	176.00	\$9,680.00	\$0.00
121	Concrete Approach Pavement	SY	10.60	\$79.00	\$837.40	10.60	\$837.40	\$0.00
122	Reinforced Concrete Driveway and Approach Pavment	SY	152.00	\$81.00	\$12,312.00	152.00	\$12,312.00	\$0.00
123	Sidewalk	SF	3,427.00	\$5.00	\$17,135.00	3,427.00	\$17,135.00	\$0.00
124	Detectable Warning Panel	SF	28.00	\$55.00	\$1,540.00	28.00	\$1,540.00	\$0.00
125	Concrete Drain Pan	SY	59.00	\$82.00	\$4,838.00	59.00	\$4,838.00	\$0.00
126	Concrete Fillet and Pan, Reinforced	SY	82.00	\$93.00	\$7,626.00	82.00	\$7,626.00	\$0.00
127	Cold Plastic Marking Tape and Grooving, 4"	LF	2,643.00	\$3.00	\$7,929.00	2,643.00	\$7,929.00	\$0.00
128	Cold Plastic Marking Tape and Grooving, 12"	LF	219.00	\$8.00	\$1,752.00	219.00	\$1,752.00	\$0.00
129	Cold Plastic Marking Tape and Grooving, 24"	LF	126.00	\$19.00	\$2,394.00	126.00	\$2,394.00	\$0.00
130	Cold Plastic Marking Tape and Grooving, Turn Arrow	EA	6.00	\$370.00	\$2,220.00	6.00	\$2,220.00	\$0.00
131	Vehicle Detector Loop	EA	5.00	\$570.00	\$2,850.00	5.00	\$2,850.00	\$0.00
132	Silt Fence	LF	350.00	\$4.50	\$1,575.00	350.00	\$1,575.00	\$0.00
133	Aggregate for Construction Entrance	Ton	370.00	\$17.00	\$6,290.00	370.00	\$6,290.00	\$0.00
134	Water Pollution Control	LS	1.00	\$4,070.00	\$4,070.00	1.00	\$4,070.00	\$0.00
135	Goldflame Spirea, 2 gallon	EA	15.00	\$34.20	\$513.00	15.00	\$513.00	\$0.00
136	Juniper, Upright / Yew, Dark Green Spreader, 5 gallon	EA	15.00	\$62.00	\$930.00	15.00	\$930.00	\$0.00
137	Mugo Pine, 2 gallon	EA	5.00	\$68.00	\$340.00	5.00	\$340.00	\$0.00
138	Burning Bush, 2 gallon	EA	10.00	\$51.00	\$510.00	10.00	\$510.00	\$0.00
139	Linden, Greenspire - 2.5" Cal	EA	13.00	\$478.00	\$6,214.00	13.00	\$6,214.00	\$0.00
140	Patmore Green Ash, 2.5" Cal	EA	13.00	\$455.00	\$5,915.00	13.00	\$5,915.00	\$0.00
141	Spring Snow Crab (Fruitless) - 2" Cal. Min.	EA	8.00	\$340.00	\$2,720.00	8.00	\$2,720.00	\$0.00
142	Black Hills Spruce 6'	EA	8.00	\$340.00	\$2,720.00	8.00	\$2,720.00	\$0.00
143	Turf Reinforcement Mat	SY	160.00	\$7.00	\$1,120.00	160.00	\$1,120.00	\$0.00
144	Sodding	SY	3,000.00	\$6.00	\$18,000.00	3,000.00	\$18,000.00	\$0.00
145	Seeding, Fertilizing, and Mulching	SY	15,280.00	\$1.20	\$18,336.00	15,280.00	\$18,336.00	\$0.00
146	Furnish and Place Topsoil	CY	1,525.00	\$23.00	\$35,075.00	1,525.00	\$35,075.00	\$0.00
147	Co-Compost	TON	235.00	\$42.00	\$9,870.00	235.00	\$9,870.00	\$0.00
148	Dechlorination Equipment, 3"	EA	2.00	\$5,000.00	\$10,000.00	2.00	\$10,000.00	\$0.00
149	Ascorbic Acid, 55 lb. Bag	EA	1.00	\$480.00	\$480.00	1.00	\$480.00	\$0.00
150	Connect 10" and 12" Water Mains	LS	1.00	\$5,000.00	\$5,000.00	1.00	\$5,000.00	\$0.00
	ADDED ITEMS - CCO #2							
151	14" Water Main Joint Restraint	EA	0.00	\$356.39	\$0.00	46.00	\$16,393.94	\$16,393.94
152	Telephone Cable Excavation	LS	0.00	\$2,079.92	\$0.00	1.00	\$2,079.92	\$2,079.92
	TOTAL				\$1,693,439.30		\$1,696,621.16	\$3,181.86

C.C.O. HISTORY INCREASE/(DECREASE)			PRIOR ADJUSTED CONTRACT PRICE :	\$1,693,439.30
	CCO #1	\$4,004.00	NET INCREASE/(DECREASE):	\$3,181.86
	CCO #2	\$3,181.86	ADJUSTED CONTRACT PRICE:	\$1,696,621.16
	CCO #3	\$0.00	CHANGE TO DATE:	\$7,185.86

CONTRACTOR: MAINLINE CONTRACTING, P.O. BOX 3448, RAPID CITY, SD 57709, WILLIAM S. HUBER DATE

FMG, INC., CHRISTOPHER G. KINNEY, PE DATE

ENGINEERING SERVICES: KEITH JOHNSON DATE

MAYOR: ALAN HANKS DATE

FINANCE: JAMES PRESTON DATE

CONTRACT TIME CHANGE +/-: 0 NEW CONTRACT TIME: Days

City Staff recommends approval of this Change Order #1 to Mainline Contracting for an increase of \$3181.86 based on unit pricing with the following appropriation:

Initial Funding	\$14,337.00	\$1,134,816.71	\$78,367.80	\$461,913.79	\$1,689,435.30
Fund Type	STREETS	WATER	SAN SEWER	STM SEWER	
Fund	0505	0602	0604	0505	
Department	8910	0933	0833	8911	
Line Item	4370	4381	4380	4371	
CCO #1	\$0.00	\$900.00	\$1,924.00	\$1,180.00	\$4,004.00
CCO #2	\$0.00	\$4,214.86	(\$240.00)	(\$793.00)	\$3,181.86
Adjusted Funding	\$14,337.00	\$1,139,931.57	\$80,051.80	\$462,300.79	\$1,696,621.16

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August 30, 2007
ORIGINAL CONTRACT AMOUNT: \$1,689,435.30
CONTRACTOR: Mainline Contracting

LINE ITEM	DESCRIPTION	REASON FOR CHANGE
8	Tree Removal 12"-24"	Some trees were able to be saved during construction
22	Remove Existing 15" RCP Storm Sewer	Additional pipe had to be removed and reconstructed due to unknown pipe grades
24	Remove Existing Water Valve and Valve Box	Determined it would be better to abandon some valves in place instead of removing them
27	Abandon Existing Valve Box	Determined it would be better to abandon some valves in place instead of removing them
39	14" DI Water Main	Original bid quantity included length of pipe that was also included as part of bid item 95 Lump Sum price
42	4" PVC Water Service	Contractor was able to avoid conflict with existing 4" water services during construction of new 14" water main
47	14" High Deflection Coupling	Water main was able to constructed without some of the high deflection couplings
49	6" High Deflection Coupling	Additional HD coupling needed for water main tie-in
50	14" x 11.25 Degree Bend	Additional bend needed for West South Street water main realignment from incorrect existing water main locate
52	14" x 45 Degree Bend	Additional bends needed for West South Street water main realignment from incorrect existing water main locate
62	4" x 45 Degree Bend	Contractor was able to avoid conflict with existing 4" water services during construction of new 14" water main
67	14" x 14" x 14" Tee	Original bid quantity counted one 14" x 14" x 14" Tee as 14" x 14" x 12" Tee
68	14" x 14" x 12" Tee	Original bid quantity counted one 14" x 14" x 14" Tee as 14" x 14" x 12" Tee
86	8" PVC Sanitary Sewer (6' - 8')	Original bid quantity had extra 10' of sewer main
96	10' x 4' Precast Box Culvert	Box culvert constructed with additional bend sections and fewer straight sections
97	10' x 4' Precast Box Culvert Bend Section	Box culvert constructed with additional bend sections and fewer straight sections
104	15" RCP, Class 2	Additional pipe had to be removed and reconstructed due to unknown pipe grades
151	14" Water Main Joint Restraint	Additional joint restraints needed for proper construction of 14" water main
152	Telephone Cable Excavation	Excavation of telephone cable was necessary for West South St. water main realignment from incorrect water main locate

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