

Well Site #3 Elevated Storage Tank Painting

MAP KEY: DW2019-01

This project will resurface the second and final elevated storage tank and allow the new City of Liberty Hill logo to be painted. This tank is in urgent need of painting as several areas have significant corrosion. This recoating is for the interior and exterior of the tank.

DW2019-01				
Well Site #3 Elevated Tank Painting				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
Remove interior coating by abrasive blasting all surfaces to near white condition (SSPC-SP 10)	1	LS	\$40,000.00	\$ 40,000.00
Recoat interior with a two component, 100% solids, 0 VOC, elastomeric, aromatic polyurethane hybrid coating	1	LS	\$33,575.00	\$ 33,575.00
Install Tank Shroud	1	LS	\$50,000.00	\$ 50,000.00
Remove exterior coating by abrasive blasting all surfaces to near white condition (SSPC-SP 10)	1	LS	\$75,000.00	\$ 75,000.00
Coat exterior areas with an organic zinc-rich epoxy primer, and a modified Polysiloxane hybrid top coat	1	LS	\$15,000.00	\$ 15,000.00
Overcoat exterior coating with high solids mastic primer, penetrating sealer and a modified Polysiloxane top coat	1	LS	\$65,000.00	\$ 65,000.00
Replace existing Flap Gate	1	LS	\$1,500.00	\$ 1,500.00
Replace existing 30" Roof Hatch	1	LS	\$6,000.00	\$ 6,000.00
Replace existing Roof Vent	1	LS	\$5,000.00	\$ 5,000.00
Install Ladder Safety Climb Device			\$6,000.00	\$ -
Welding Repairs	1	LS	\$4,000.00	\$ 4,000.00
Paint City of Liberty Hill logo on tank exterior with a modified Polysiloxane hybrid top coat	1	LS	\$5,000.00	\$ 5,000.00
Disinfect tank	1	LS	\$2,000.00	\$ 2,000.00
			Construction Subtotal	\$ 302,075.00
			Engineering, Surveying, Legal (6%)	\$ 18,200.00
			Contingencies (15%)	\$ 45,400.00
TOTAL				\$365,675.00

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Downtown Fire Protection Improvements-Phase 1

MAP KEY: DW2019-02

This 12" water line project is the first phase of water system improvements to improve the fire flow capacity of the central Liberty Hill area, including downtown and State Highway 29 corridor. This project is divided into three phases based on estimated available funding. The exact alignment has not been determined.

DW2019-02				
Downtown Fire Protection Phase 1				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
12" C900, DR-18 PVC Water Line (w/ Trenching, Locator Tape and Backfill)	1,860	L.F.	\$ 50.00	\$ 93,000.00
M.J. SSB CL-350 D.I. Fittings w/ Restraint Glands	1,000	Lbs	\$ 6.00	\$ 6,000.00
Connection to Existing Water Main	3	Ea.	\$ 7,500.00	\$ 22,500.00
Fire Hydrant Assembly (w/ Hydrant, Lead, Gate Valve, Valve Box and Tee)	5	Ea.	\$ 6,000.00	\$ 30,000.00
2" Combination Air Release Valve (w/ vault, valve and appurtunances)	5	Ea.	\$ 7,500.00	\$ 37,500.00
12" Gate Valve (w/ Valve Box and Restraint Glands)	5	Ea.	\$ 3,000.00	\$ 15,000.00
Open Cut & Encase w/ 18" PVC Casing Pipe (w/ Casing Spacers and End Seals)	100	L.F.	\$ 165.00	\$ 16,500.00
Erosion and Sedimentation Control - Silt Fence	1,760	L.F.	\$ 4.50	\$ 7,920.00
Clearing & Chipping	1,760	L.F.	\$ 10.00	\$ 17,600.00
Trench Safety	1,760	L.F.	\$ 4.00	\$ 7,040.00
			Construction Subtotal	\$ 253,060.00
			Engineering, Surveying, Legal (12.5%)	\$ 31,700.00
			Contingencies (15%)	\$ 38,000.00
TOTAL				\$322,760.00

Well #8

MAP KEY: DW2019-05

This project includes drilling the well (projected to have a capacity of 150 GPM), ground storage and high service pumping capacity, near the City's existing distribution system infrastructure. If location is not near existing infrastructure, the offsite transmission main improvements could add significant cost to the project. The exact location has not been determined.

DW2019-05 Construct Well #8				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
Construction of Well Capable of 150 gpm (Depth TBD)	1	LS	\$ 250,000.00	\$ 250,000.00
Well Pump and Well Head Equipping	1	LS	\$ 65,000.00	\$ 65,000.00
Yard Piping	1	LS	\$ 30,000.00	\$ 30,000.00
Site Work (grading and access road)	1	LS	\$ 50,000.00	\$ 50,000.00
Chemical Treatment (Chloramination)	1	LS	\$ 40,000.00	\$ 40,000.00
Ground Storage	1	LS	\$ 250,000.00	\$ 250,000.00
High Service Pump Station	1	LS	\$ 500,000.00	\$ 500,000.00
Connection to Existing Distribution System	1	LS	\$ 10,000.00	\$ 10,000.00
			Construction Subtotal	\$ 1,195,000.00
			Engineering, Surveying, Legal (12.5%)	\$ 149,400.00
			Contingencies (15%)	\$ 179,300.00
			Property Acquisition	\$ 50,000.00
TOTAL				\$1,573,700.00

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CR 214 Water Line Connection

MAP KEY: DW2019-07

This 8" water line project is to improve water pressure and fire flow capacity along the central portion of the Highway 29 corridor by closing the loop on an existing gap. The exact alignment has not been determined.

DW2019-07				
CR 214 Loop Closure Connection West/East				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
8" C900, DR-18 PVC Water Line (w/ Trenching, Locator Tape and Backfill)	130	L.F.	\$ 40.00	\$ 5,200.00
M.J. SSB CL-350 D.I. Fittings w/ Restraint Glands	300	Lbs	\$ 6.00	\$ 1,800.00
Connection to Existing Water Main	2	Ea.	\$ 7,500.00	\$ 15,000.00
8" Gate Valve (w/ Valve Box and Restraint Glands)	2	Ea.	\$ 2,500.00	\$ 5,000.00
Bore & Encase w/ 12" PVC Casing Pipe (w/ Casing Spacers and End Seals)	80	L.F.	\$ 285.00	\$ 22,800.00
Erosion and Sedimentation Control - Silt Fence	50	L.F.	\$ 4.50	\$ 225.00
Clearing & Chipping	50	L.F.	\$ 10.00	\$ 500.00
Trench Safety	50	L.F.	\$ 4.00	\$ 200.00
			Construction Subtotal	\$ 50,725.00
			Engineering, Surveying, Legal (12.5%)	\$ 6,400.00
			Contingencies (15%)	\$ 7,700.00
TOTAL				\$64,825.00

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Van Alley 8" Water Line Improvements

MAP KEY: DW2019-2023-01

This 8" water line project is replacing an aging 6" asbestos cement water pipeline along the same general alignment. This system improvement will add much needed capacity in the downtown area to improve the fire flow capacity.

DW2019-2023-01				
Van Alley 8" Water Line				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
8" C900, DR-18 PVC Water Line (w/ Trenching, Locator Tape and Backfill)	3,290	L.F.	\$ 40.00	\$ 131,600.00
M.J. SSB CL-350 D.I. Fittings w/ Restraint Glands	1,000	Lbs	\$ 6.00	\$ 6,000.00
Connection to Existing Water Main	5	Ea.	\$ 7,500.00	\$ 37,500.00
Reconnect existing services	25	Ea.	\$ 1,500.00	\$ 37,500.00
Fire Hydrant Assembly (w/ Hydrant, Lead, Gate Valve, Valve Box and Tee)	8	Ea.	\$ 6,000.00	\$ 48,000.00
8" Gate Valve (w/ Valve Box and Restraint Glands)	8	Ea.	\$ 2,500.00	\$ 20,000.00
Erosion and Sedimentation Control - Silt Fence	3,290	L.F.	\$ 4.50	\$ 14,805.00
Clearing & Chipping	3,290	L.F.	\$ 10.00	\$ 32,900.00
Trench Safety	3,290	L.F.	\$ 4.00	\$ 13,160.00
			Construction Subtotal	\$ 341,465.00
			Engineering, Surveying, Legal (12.5%)	\$ 42,700.00
			Contingencies (15%)	\$ 51,300.00
TOTAL				\$435,465.00

* Project to be constructed with proposed road improvements.

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Ground Storage Tank Repainting

MAP KEY: DW2020-01

This project consists of repainting 3 ground storage tanks throughout the City's water system well sites. These tanks are beginning to show sign of corrosion. This project is for recoating the interior and exterior of the tanks.

DW2020-01				
Ground Storage Tank Repainting				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
Remove interior coating by abrasive blasting all surfaces to near white condition (SSPC-SP 10)	3	LS	\$15,000.00	\$ 45,000.00
Recoat interior with a two component, 100% solids, 0 VOC, elastomeric, aromatic polyurethane hybrid coating	3	LS	\$15,000.00	\$ 45,000.00
Remove exterior coating by abrasive blasting all surfaces to near white condition (SSPC-SP 10)	3	LS	\$20,000.00	\$ 60,000.00
Coat exterior areas with an organic zinc-rich epoxy primer, and a modified Polysiloxane hybrid top coat	3	LS	\$10,000.00	\$ 30,000.00
Overcoat exterior coating with high solids mastic primer, penetrating sealer and a modified Polysiloxane top coat	3	LS	\$20,000.00	\$ 60,000.00
Replace existing Flap Gate	3	LS	\$1,500.00	\$ 4,500.00
Replace existing 30" Roof Hatch	3	LS	\$6,000.00	\$ 18,000.00
Replace existing Roof Vent	3	LS	\$5,000.00	\$ 15,000.00
Install Ladder Safety Climb Device	3	LS	\$6,000.00	\$ 18,000.00
Welding Repairs	3	LS	\$4,000.00	\$ 12,000.00
Paint City of Liberty Hill logo on tank exterior with a modified Polysiloxane hybrid top coat	0	LS	\$5,000.00	\$ -
Disinfect tank	3	LS	\$2,000.00	\$ 6,000.00
			Construction Subtotal	\$ 313,500.00
			Engineering, Surveying, Legal (6%)	\$ 18,900.00
			Contingencies (15%)	\$ 47,100.00
TOTAL				\$379,500.00

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Downtown Fire Protection Improvements-Phase 2

MAP KEY: DW2020-02

This 12" water line project is the second phase of water system improvements to improve the fire flow capacity of the central Liberty Hill area, including downtown and State Highway 29 corridor. This project is divided into three phases based on estimated available funding. The exact alignment has not been determined.

DW2020-02				
Downtown Fire Protection Phase 2				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
12" C900, DR-18 PVC Water Line (w/ Trenching, Locator Tape and Backfill)	1,740	L.F.	\$ 50.00	\$ 87,000.00
M.J. SSB CL-350 D.I. Fittings w/ Restraint Glands	2,500	Lbs	\$ 6.00	\$ 15,000.00
Connection to Existing Water Main	3	Ea.	\$ 7,500.00	\$ 22,500.00
Fire Hydrant Assembly (w/ Hydrant, Lead, Gate Valve, Valve Box and Tee)	5	Ea.	\$ 6,000.00	\$ 30,000.00
2" Combination Air Release Valve (w/ vault, valve and appurtunances)	5	Ea.	\$ 7,500.00	\$ 37,500.00
12" Gate Valve (w/ Valve Box and Restraint Glands)	5	Ea.	\$ 3,000.00	\$ 15,000.00
Open Cut & Encase w/ 18" PVC Casing Pipe (w/ Casing Spacers and End Seals)	100	L.F.	\$ 165.00	\$ 16,500.00
Bore & Encase w/ 18" Steel Casing Pipe (w/ Casing Spacers and End Seals)	100	L.F.	\$ 365.00	\$ 36,500.00
Erosion and Sedimentation Control - Silt Fence	1,540	L.F.	\$ 4.50	\$ 6,930.00
Clearing & Chipping	1,540	L.F.	\$ 10.00	\$ 15,400.00
Trench Safety	1,540	L.F.	\$ 4.00	\$ 6,160.00
			Construction Subtotal	\$ 288,490.00
			Engineering, Surveying, Legal (12.5%)	\$ 36,100.00
			Contingencies (15%)	\$ 43,300.00
TOTAL				\$367,890.00

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Well #9

MAP KEY: DW2020-05

This project includes drilling the well (projected to have a capacity of 150 GPM), ground storage and high service pumping capacity, near the City's existing distribution system infrastructure. If location is not near existing infrastructure, the offsite transmission main improvements could add significant cost to the project. The exact location has not been determined.

DW2020-05				
Construct Well #9				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
Construction of Well Capable of 150 gpm (Depth TBD)	1	LS	\$ 250,000.00	\$ 250,000.00
Well Pump and Well Head Equipping	1	LS	\$ 65,000.00	\$ 65,000.00
Yard Piping	1	LS	\$ 30,000.00	\$ 30,000.00
Site Work (grading and access road)	1	LS	\$ 50,000.00	\$ 50,000.00
Chemical Treatment (Chloramination)	1	LS	\$ 40,000.00	\$ 40,000.00
Connection to Existing Distribution System	1	LS	\$ 10,000.00	\$ 10,000.00
			Construction Subtotal	\$ 445,000.00
			Engineering, Surveying, Legal (12.5%)	\$ 55,700.00
			Contingencies (15%)	\$ 66,800.00
			Property Acquisition	\$ 50,000.00
TOTAL				\$617,500.00

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Downtown Fire Protection Improvements-Phase 3

MAP KEY: DW2021-01

This 12" water line project is the third phase of water system improvements to improve the fire flow capacity of the central Liberty Hill area, including downtown and State Highway 29 corridor. This project is divided into three phases based on estimated available funding. The exact alignment has not been determined.

DW2021-01				
Downtown Fire Protection Phase 3				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
12" C900, DR-18 PVC Water Line (w/ Trenching, Locator Tape and Backfill)	1,940	L.F.	\$ 50.00	\$ 97,000.00
M.J. SSB CL-350 D.I. Fittings w/ Restraint Glands	3,500	Lbs	\$ 6.00	\$ 21,000.00
Connection to Existing Water Main	3	Ea.	\$ 7,500.00	\$ 22,500.00
Fire Hydrant Assembly (w/ Hydrant, Lead, Gate Valve, Valve Box and Tee)	5	Ea.	\$ 6,000.00	\$ 30,000.00
2" Combination Air Release Valve (w/ vault, valve and appurtunances)	5	Ea.	\$ 7,500.00	\$ 37,500.00
12" Gate Valve (w/ Valve Box and Restraint Glands)	5	Ea.	\$ 3,000.00	\$ 15,000.00
Open Cut & Encase w/ 18" PVC Casing Pipe (w/ Casing Spacers and End Seals)	100	L.F.	\$ 165.00	\$ 16,500.00
Bore & Encase w/ 18" Steel Casing Pipe (w/ Casing Spacers and End Seals)	200	L.F.	\$ 365.00	\$ 73,000.00
Erosion and Sedimentation Control - Silt Fence	1,640	L.F.	\$ 4.50	\$ 7,380.00
Clearing & Chipping	1,640	L.F.	\$ 10.00	\$ 16,400.00
Trench Safety	1,640	L.F.	\$ 4.00	\$ 6,560.00
			Construction Subtotal	\$ 342,840.00
			Engineering, Surveying, Legal (12.5%)	\$ 42,900.00
			Contingencies (15%)	\$ 51,500.00
TOTAL				\$437,240.00

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Stubblefield East 12" WTM

MAP KEY: DW2023-01

Similar to the Downtown Fire Protection Improvements, this 12" water line project is to improve water pressure and fire flow capacity along the eastern portion of the Highway 29 corridor. The exact alignment has not been determined.

DW2023-01				
Stubblefield East 12" WTM				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
12" C900, DR-18 PVC Water Line (w/ Trenching, Locator Tape and Backfill)	11,050	L.F.	\$ 50.00	\$ 552,500.00
M.J. SSB CL-350 D.I. Fittings w/ Restraint Glands	10,000	Lbs	\$ 6.00	\$ 60,000.00
Connection to Existing Water Main	2	Ea.	\$ 7,500.00	\$ 15,000.00
Fire Hydrant Assembly (w/ Hydrant, Lead, Gate Valve, Valve Box and Tee)	10	Ea.	\$ 6,000.00	\$ 60,000.00
2" Combination Air Release Valve (w/ vault, valve and appurtunances)	10	Ea.	\$ 7,500.00	\$ 75,000.00
12" Gate Valve (w/ Valve Box and Restraint Glands)	10	Ea.	\$ 3,000.00	\$ 30,000.00
Open Cut & Encase w/ 18" PVC Casing Pipe (w/ Casing Spacers and End Seals)	210	L.F.	\$ 165.00	\$ 34,650.00
Existing Driveway Repair	7	Ea.	\$ 2,500.00	\$ 17,500.00
Bore & Encase w/ 18" PVC Casing Pipe (w/ Casing Spacers and End Seals)	80	L.F.	\$ 315.00	\$ 25,200.00
Bore & Encase w/ 18" Steel Casing Pipe (w/ Casing Spacers and End Seals)	200	L.F.	\$ 365.00	\$ 73,000.00
Erosion and Sedimentation Control - Silt Fence	10,770	L.F.	\$ 4.50	\$ 48,465.00
Clearing & Chipping	10,770	L.F.	\$ 10.00	\$ 107,700.00
Trench Safety	10,770	L.F.	\$ 4.00	\$ 43,080.00
			Construction Subtotal	\$ 1,142,095.00
			Engineering, Surveying, Legal (12.5%)	\$ 142,800.00
			Contingencies (15%)	\$ 171,400.00
TOTAL				\$1,456,295.00

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Bluebonnet Circle 8" Water Line Extension

MAP KEY: DW2024-01

Similar to the Downtown Fire Protection Improvements, this 8" water line project is to improve water pressure and fire flow capacity along the central portion of the Highway 29 corridor. The exact alignment has not been determined.

DW2024-01				
Bluebonnet Circle 8" Water Line Extension				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
8" C900, DR-18 PVC Water Line (w/ Trenching, Locator Tape and Backfill)	2,200	L.F.	\$ 40.00	\$ 88,000.00
M.J. SSB CL-350 D.I. Fittings w/ Restraint Glands	800	Lbs	\$ 6.00	\$ 4,800.00
Connection to Existing Water Main	2	Ea.	\$ 7,500.00	\$ 15,000.00
Fire Hydrant Assembly (w/ Hydrant, Lead, Gate Valve, Valve Box and Tee)	1	Ea.	\$ 6,000.00	\$ 6,000.00
1" Combination Air Release Valve (w/ vault, valve and appurtunances)	1	Ea.	\$ 5,000.00	\$ 5,000.00
8" Gate Valve (w/ Valve Box and Restraint Glands)	3	Ea.	\$ 2,500.00	\$ 7,500.00
Bore & Encase w/ 12" PVC Casing Pipe (w/ Casing Spacers and End Seals)	30	L.F.	\$ 285.00	\$ 8,550.00
Erosion and Sedimentation Control - Silt Fence	2,200	L.F.	\$ 4.50	\$ 9,900.00
Clearing & Chipping	2,200	L.F.	\$ 10.00	\$ 22,000.00
Trench Safety	2,200	L.F.	\$ 4.00	\$ 8,800.00
			Construction Subtotal	\$ 175,550.00
			Engineering, Surveying, Legal (12.5%)	\$ 22,000.00
			Contingencies (15%)	\$ 26,400.00
TOTAL				\$223,950.00

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Water Treatment Plant Storage Reservoir

MAP KEY: DW2027-01

This reservoir will store surface water and reclaimed water to allow the water to be blended and have 180 days of water storage for 2mgd of production. The plant site has not been determined, but is expected to be on the south side of Liberty Hill.

DW2027-01				
Water Treatment Plant Storage Reservoir (30 Surface Acres)				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
Excavation (Rock/Soil)	965,333	CY	\$ 5.50	\$ 5,309,333.33
Dam Embankment	965,333	CY	\$ 3.50	\$ 3,378,666.67
Spillway Structure	1	LS	\$ 500,000.00	\$ 500,000.00
Water Intake	2	LS	\$ 500,000.00	\$ 1,000,000.00
			Construction Subtotal	\$ 10,188,000.00
			Engineering, Surveying, Legal (12.5%)	\$ 1,273,500.00
			Contingencies (15%)	\$ 1,528,200.00
TOTAL				\$12,989,700.00

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Water Treatment Plant

MAP KEY: DW2027-02

This raw water intake, pump station, and transmission main will draw water from Lake Travis, convey it through an 18" pipeline, and deliver it to the water treatment plant storage reservoir, where it will be blended with reclaimed water. The plant site has not been determined, but is expected to be on the south side of Liberty Hill.

DW2027-02				
Raw Water Inake, Pump Station, and Transmission Main				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
Raw Water Intake	1	LS	\$ 2,000,000.00	\$ 2,000,000.00
Raw Water Pump Station	1	LS	\$ 1,000,000.00	\$ 1,000,000.00
18" C905, DR-18 PVC Water Line (w/ Trenching, Locator Tape and Backfill)	118,789	L.F.	\$ 70.00	\$ 8,315,230.00
M.J. SSB CL-350 D.I. Fittings w/ Restraint Glands	144,000	Lbs	\$ 6.00	\$ 864,000.00
18" Gate Valve (w/ Valve Box and Restraint Glands)	6	Ea.	\$ 6,000.00	\$ 36,000.00
Open Cut & Encase w/ 24" PVC Casing Pipe (w/ Casing Spacers and End Seals)	1500	L.F.	\$ 225.00	\$ 337,500.00
Bore & Encase w/ 24" PVC Casing Pipe (w/ Casing Spacers and End Seals)	2000	L.F.	\$ 375.00	\$ 750,000.00
Erosion and Sedimentation Control - Silt Fence	116,789	L.F.	\$ 4.50	\$ 525,550.50
Clearing & Chipping	116,789	L.F.	\$ 10.00	\$ 1,167,890.00
Trench Safety	116,789	L.F.	\$ 4.00	\$ 467,156.00
			Construction Subtotal	\$ 12,463,326.50
			Engineering, Surveying, Legal (12.5%)	\$ 1,558,000.00
			Contingencies (15%)	\$ 1,869,500.00
TOTAL				\$15,890,826.50

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Water Treatment Plant Finished Water Transmission Main

MAP KEY: DW2027-03

This water treatment plant will treat blended surface water and reclaimed water to allow the water to produce high quality potable water. The plant site has not been determined, but is expected to be on the south side of Liberty Hill.

DW2027-03				
Water Treatment Plant				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
Ultra Filtration Membrane Water Treatment Plant	1	LS	\$ 6,000,000.00	\$ 6,000,000.00
Water Treatment Plant Building	1	LS	\$ 2,500,000.00	\$ 2,500,000.00
Water Treatment Site Improvements	1	LS	\$ 3,250,000.00	\$ 3,250,000.00
Clearwell	1	LS	\$ 1,500,000.00	\$ 1,500,000.00
WTP High Service Pumps	1	LS	\$ 750,000.00	\$ 750,000.00
Site Electrical	1	LS	\$ 1,500,000.00	\$ 1,500,000.00
			Construction Subtotal	\$ 15,500,000.00
			Engineering, Surveying, Legal (12.5%)	\$ 1,937,500.00
			Contingencies (15%)	\$ 2,325,000.00
TOTAL				\$19,762,500.00

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Water Treatment Plant Finished Water Transmission Main

MAP KEY: DW2027-04

This pipeline will connect the future surface water treatment plant to the distribution system. The alignment will generally be along CR 279. The exact alignment has not been determined.

DW2027-04				
Water Treatment Plant Finished Water WTM				
Item	Qty.	Units	Estimated Unit Cost	Estimated Total Cost
24" CL250 Ductile Iron Water Line (w/ Trenching, Locator Tape and Backfill)	5,800	L.F.	\$ 130.00	\$ 754,000.00
M.J. SSB CL-350 D.I. Fittings w/ Restraint Glands	4,000	Lbs	\$ 6.00	\$ 24,000.00
Connection to Existing Water Main	1	Ea.	\$ 7,500.00	\$ 7,500.00
Fire Hydrant Assembly (w/ Hydrant, Lead, Gate Valve, Valve Box and Tee)	2	Ea.	\$ 6,000.00	\$ 12,000.00
2" Combination Air Release Valve (w/ vault, valve and appurtunances)	2	Ea.	\$ 7,500.00	\$ 15,000.00
24" Butterfly Valve (w/ Valve Box and Restraint Glands)	2	Ea.	\$ 10,000.00	\$ 20,000.00
Open Cut & Encase w/ 36" PVC Casing Pipe (w/ Casing Spacers and End Seals)	210	L.F.	\$ 360.00	\$ 75,600.00
Bore & Encase w/ 36" PVC Casing Pipe (w/ Casing Spacers and End Seals)	345	L.F.	\$ 700.00	\$ 241,500.00
Erosion and Sedimentation Control - Silt Fence	5,455	L.F.	\$ 4.50	\$ 24,547.50
Clearing & Chipping	5,455	L.F.	\$ 10.00	\$ 54,550.00
Trench Safety	5,455	L.F.	\$ 4.00	\$ 21,820.00
			Construction Subtotal	\$ 1,250,517.50
			Engineering, Surveying, Legal (12.5%)	\$ 156,400.00
			Contingencies (15%)	\$ 187,600.00
TOTAL				\$1,594,517.50

This is a preliminary cost summary based on similar work in the City of Liberty Hill Service area and not an actual cost quote or bid. It has not been based on any engineering plans or survey. A revised and more accurate estimate will be provided after the engineering plans have been prepared and/or actual construction bids have been received and tabulated.