

Engineer's Opinion of Estimated Costs for Public/Private Improvements
Offsite Sanitary Sewer CD23-0002
PHASE 1

All Costs Include Labor and Materials.

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
<u>PUBLIC IMPROVEMENTS TO BE INSPECTED</u>					
	Earthwork				
	Mobilization	1	LS	\$15,000	\$15,000.00
	Topsoil				\$0.00
	Import/Export in ROWs				\$0.00
	Transportation				
	Paving				\$0
	Subgrade Prep				\$0
	Curb Gutter				\$0
	Cross Pans				\$0
	Sidewalks				\$0
	Handicap Ramps				\$0
	Street Repair for utility cuts				\$0
	Irrigation Conduits in Right-of-way				\$0
	Utility Conduits in Right-of-Way				\$0
	Trails (off street, public)				\$0
	Striping				\$0
	Signage				\$0
	Public Street Lighting				\$0
	Water				\$0
	Water Mains (list types & sizes) 12 inch				\$0
	Connections to Existing WL				\$0
	Saw Cut & Pavement Replacement				\$0
	Water Main Lowerings				\$0
	Tees (list sizes)				\$0
	Crosses (list sizes)				\$0
	Horizontal Bends (list sizes)				\$0
	Vertical Bends (list sizes)				\$0
	Valves (list types & sizes)				\$0
	Marker Posts				\$0
	Temporary Blow-Offs				\$0
	ARV's				\$0
	Fire Hydrants 1 per 400 ft				\$0
	Fire Hydrant Bollards				\$0
	Domestic Service Lines (from the main to the curb stop) (list types and sizes)				\$0
	Water Meters (list sizes) & Vaults				\$0
	Irrigation Meters (list sizes) & Vaults				\$0
	Irrigation Lines (from main to meter) (list types & sizes)				\$0
	Sanitary Sewer				\$0
	Sanitary Mains 21 inch	0	LF	\$60	\$0
	Sanitary Mains 24 inch	12147.7	LF	\$60	\$731,657
	Sanitary Mains 8 inch	30	LF	\$40	\$1,200
	Sanitary Mains 10 inch	30		\$40	\$1,200
	Connections to Existing San Sewer	1	EA	\$6,085	\$6,085

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	Saw Cut	0	LF	\$4	\$0
	Pavement Replacement	0	SF	\$81	\$0
	Lift Stations				\$0
	Sanitary Force Mains (list types & sizes)				\$0
	Manholes (5' Dia.) <10' Depth	5	EA	\$5,000	\$25,000
	Manholes (5' Dia.) 10'-20' Depth	28	EA	\$6,500	\$182,000
	Manholes (6' Dia.) <10' Depth		EA	\$6,000	\$0
	Manholes (6' Dia.) 10'-20' Depth	2	EA	\$7,500	\$15,000
	Manholes (6' Dia.) >20' Depth	6	EA	\$12,000	\$72,000
	24" diameter, 300 lb				
	Manhole Internal Watertight Inserts				\$0
	Drop Manholes (list dia. & range of depth)				\$0
	10 inch Stub with Plug	2		\$171	\$342
	8 inch Stub with Plug	2		\$86	\$172
	Marker Posts	24		\$10	\$240
	WYE connections for service lines (list sizes)				\$0
** assume manhole cover included in cost					
Drainage					
	18" RCP	744.21	LF	\$81	\$60,281
	Manholes				\$0
	Inlets				\$0
	18" FES	28	EA	\$1,930	\$54,040
	Trickle Channel				\$0
	Rip Rap				\$0
	Forebay				\$0
	Micropool				\$0
	Outlets Structure(s)				\$0
	Retaining Walls				\$0
					\$1,164,216.75
10% Contingency					\$116,421.68
Total Public Improvements					\$1,280,638.43

PRIVATE IMPROVEMENTS TO BE INSPECTED					
Earthwork					
	Import/Export				\$0.00
Water					
	Backflow Prevention Assemblies (list sizes)				\$0
	Fire Service Line (list types and sizes)				\$0
	Abandon/remove water service lines				\$0
	Irrigation backflow prevention assemblies (list sizes)				\$0
Sanitary Sewer					
	Abandon/remove sanitary sewer service lines				\$0
Drainage					
	Storm Sewer Pipe				\$0
	Manholes				\$0
	Inlets				\$0
	Clean Outs				\$0
	FES's				\$0
	Retaining Walls				\$0

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
					\$0
	10% Contingency				\$0.0
	Total Private Improvements To Be Inspected				\$0.0

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
PRIVATE IMPROVEMENTS NOT TO BE INSPECTED					
	Transportation				
	Paving				\$0
	Curb/Gutter				\$0
	Cross Pans				\$0
	Parking Areas				\$0
	Sidewalks				\$0
	Handicapped Ramps				\$0
	Water				
	FDC & fire lines to FDC (list types & sizes) (Inspected by Fire, not Public Works)				\$0
	Domestic Service Lines (from curb stop to building) (list types & sizes) (Inspected by the Building Division)				\$0
	Irrigation Lines (past meter)				\$0
	Sanitary Sewer				\$0
	Service Lines (list types and sizes)				\$0
	Clean-Outs (list sizes)				\$0
					\$0
	10% Contingency				\$0.0
Total Private Improvements Not To Be Inspected					\$0.0
Grand Total					\$1,280,638.43

1. Surety is calculated based on Public Improvement Costs.
2. Inspection Fees are calculated from Public Improvements and Private Improvements to be inspected.
3. Use Tax is calculated from the Grand Total of all Improvements minus Earthwork.
4. All Costs Shall Include Labor and Material.

Engineer's Opinion of Estimated Costs for Public/Private Improvements
Offsite Sanitary Sewer CD23-0002
PHASE 2

All Costs Include Labor and Materials.

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
<u>PUBLIC IMPROVEMENTS TO BE INSPECTED</u>					
	Earthwork				
	Mobilization	1	LS	\$15,000	\$15,000.00
	Topsoil				\$0.00
	Import/Export in ROWs				\$0.00
	Transportation	SUM			
	Paving				\$0
	Subgrade Prep				\$0
	Curb Gutter				\$0
	Cross Pans				\$0
	Sidewalks				\$0
	Handicap Ramps				\$0
	Street Repair for utility cuts				\$0
	Irrigation Conduits in Right-of-way				\$0
	Utility Conduits in Right-of-Way				\$0
	Trails (off street, public)				\$0
	Striping				\$0
	Signage				\$0
	Public Street Lighting				\$0
	Water				\$0
	Water Mains (list types & sizes) 12 inch				\$0
	Connections to Existing WL				\$0
	Saw Cut & Pavement Replacement				\$0
	Water Main Lowerings				\$0
	Tees (list sizes)				\$0
	Crosses (list sizes)				\$0
	Horizontal Bends (list sizes)				\$0
	Vertical Bends (list sizes)				\$0
	Valves (list types & sizes)				\$0
	Marker Posts				\$0
	Temporary Blow-Offs				\$0
	ARV's				\$0
	Fire Hydrants 1 per 400 ft				\$0
	Fire Hydrant Bollards				\$0
	Domestic Service Lines (from the main to the curb stop) (list types and sizes)				\$0
	Water Meters (list sizes) & Vaults				\$0
	Irrigation Meters (list sizes) & Vaults				\$0
	Irrigation Lines (from main to meter) (list types & sizes)				\$0
	Sanitary Sewer				\$0
	Sanitary Mains 21 inch	4583.54	LF	\$60	\$14,636
	Sanitary Mains 24 inch	243	LF	\$60	\$0
	Sanitary Mains 15 inch				
	Sanitary Mains 10 inch			\$40	
	Connections to Existing San Sewer	0	EA	\$6,085	\$0
	Saw Cut	0	LF	\$4	\$0

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	Pavement Replacement	0	SF	\$81	\$0
	Lift Stations				\$0
	Sanitary Force Mains (list types & sizes)				\$0
	Manholes (5' Dia.) <10' Depth		EA	\$5,000	\$0
	Manholes (5' Dia.) 10'-20' Depth	15	EA	\$6,500	\$97,500
	Manholes (6' Dia.) <10' Depth		EA	\$6,000	\$0
	Manholes (6' Dia.) 10'-20' Depth		EA	\$7,500	\$0
	Manholes (6' Dia.) >20' Depth	1	EA	\$12,000	\$12,000
	24" diameter, 300 lb				
	Manhole Internal Watertight Inserts				\$0
	Drop Manholes (list dia. & range of depth)				\$0
	15 inch Stub with Plug	2	EA	\$1,050	\$2,100
	10 inch Stub with Plug	2	EA	\$172	\$344
	8 inch Stub with Plug	1	EA	\$86	\$86
	Marker Posts	0			\$0
	WYE connections for service lines (list sizes)				\$0
** assume manhole cover included in cost					
Drainage					
	18" RCP	744.21	LF	\$81	\$60,281
	Manholes				\$0
	Inlets				\$0
	18" FES	28	EA	\$1,930	\$54,040
	Trickle Channel				\$0
	Rip Rap				\$0
	Forebay				\$0
	Micropool				\$0
	Outlets Structure(s)				\$0
	Retaining Walls				\$0
					\$255,986.90
10% Contingency					\$25,598.69
Total Public Improvements					\$281,585.59

PRIVATE IMPROVEMENTS TO BE INSPECTED					
	Earthwork				
	Import/Export				\$0.00
	Water				\$0
	Backflow Prevention Assemblies (list sizes)				\$0
	Fire Service Line (list types and sizes)				\$0
	Abandon/remove water service lines				\$0
	Irrigation backflow prevention assemblies (list sizes)				\$0
	Sanitary Sewer				\$0
	Abandon/remove sanitary sewer service lines				\$0
	Drainage				\$0
	Storm Sewer Pipe				\$0
	Manholes				\$0
	Inlets				\$0
	Clean Outs				\$0
	FES's				\$0
	Retaining Walls				\$0
					\$0

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	10% Contingency				\$0.0
	Total Private Improvements To Be Inspected				\$0.0

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
<u>PRIVATE IMPROVEMENTS NOT TO BE INSPECTED</u>					
	Transportation				
	Paving				\$0
	Curb/Gutter				\$0
	Cross Pans				\$0
	Parking Areas				\$0
	Sidewalks				\$0
	Handicapped Ramps				\$0
	Water				
	FDC & fire lines to FDC (list types & sizes) (Inspected by Fire, not Public Works)				\$0
	Domestic Service Lines (from curb stop to building) (list types & sizes) (Inspected by the Building Division)				\$0
	Irrigation Lines (past meter)				\$0
	Sanitary Sewer				\$0
	Service Lines (list types and sizes)				\$0
	Clean-Outs (list sizes)				\$0
					\$0
	10% Contingency				\$0.0
Total Private Improvements Not To Be Inspected					\$0.0
Grand Total					\$281,585.59

1. Surety is calculated based on Public Improvement Costs.
2. Inspection Fees are calculated from Public Improvements and Private Improvements to be inspected.
3. Use Tax is calculated from the Grand Total of all Improvements minus Earthwork.
4. All Costs Shall Include Labor and Material.