# Engineer's Opinion of Estimated Costs for Public/Private Improvements
# Avilla Bella Mesa CD22-0035

**All Costs Include Labor and Materials.**

| Item # | Description | Quantity | Unit | Unit Cost | Total Cost |
|---|---|---|---|---|---|
| | **PUBLIC IMPROVEMENTS TO BE INSPECTED** | | | | |
| | **Earthwork** | | | | |
| | Mobilizaton | | | | $0.00 |
| | Topsoil | | | | $0.00 |
| | Import/Export in ROWs | | | | $0.00 |
| | | | | | |
| | **Transportation** | | | | |
| | Asphalt Paving | 4343 | SY | $22 | $95,546 |
| | Concrete Paving | 1419 | SY | $32 | $45,408 |
| | Subgrade Prep | 5762 | SY | $3 | $14,405 |
| | Curb Gutter | 2039 | LF | $17 | $34,663 |
| | Cross Pans (8') | | SF | $9 | $0 |
| | Valley Pan (4') | | SF | $4 | $0 |
| | Sidewalks | 642 | SY | $29 | $18,618 |
| | Handicap Ramps | | EA | $1,350 | $0 |
| | Street Repair for utility cuts | | SY | $72 | $0 |
| | Irrigation Conduits in Right-of-way | | | | $0 |
| | Utility Conduits in Right-of-Way | | | | $0 |
| | Trails (off street, public) | | | | $0 |
| | Striping | 1100 | LF | $8 | $8,800 |
| | Signage | 13 | EA | $400 | $5,200 |
| | Public Street Lighting | | | | $0 |
| | | | | | |
| | **Water** | | | | $0 |
| | Water Main (8 inch PVC) | 1178 | LF | $30 | $35,340 |
| | Domestic Service Lines (1.5 inch Type K Copper) (to the meter) | 384 | LF | $13 | $4,992 |
| | Connections to Existing WL | 2 | EA | $2,500 | $5,000 |
| | Saw Cut & Pavement Replacement | 0 | | | $0 |
| | 8" x 6" Swivel Tee | 4 | EA | $800 | $3,200 |
| | 8" 11.25° Elbow w/ Thrust Block | 5 | EA | $775 | $3,875 |
| | 8" 22.5° Elbow w/ Thrust Block | 4 | EA | $775 | $3,100 |
| | 8" 45° Elbow w/ Thrust Block | 3 | EA | $775 | $2,325 |
| | 8" 45° Vertical Elbow w/ Thrust Block | 20 | EA | $775 | $15,500 |
| | 6" Gate Valve | 4 | EA | $1,800 | $7,200 |
| | 8" Gate Valve | 5 | EA | $2,000 | $10,000 |
| | Marker Posts | 0 | | | $0 |
| | Temporary Blow-Offs | 0 | | | $0 |
| | ARV's | 0 | | | $0 |
| | Fire Hydrants 1 per 400 ft | 4 | EA | $5,450 | $21,800 |
| | Fire Hydrant Bollards | 0 | | | $0 |
| | 1.5" Water Meters & Vaults | 12 | EA | $12,000 | $144,000 |
| | 1.5" Irrigation Meters & Vaults | 2 | EA | $12,000 | $24,000 |

| Item # | Description | Quantity | Unit | Unit Cost | Total Cost |
|---|---|---|---|---|---|
| | 1.5" Type K Irrigation Lines (from main to meter) | 49 | LF | $13 | $637 |
| | | | | | |
| | **Sanitary Sewer** | | | | $0 |
| | Sanitary Main (8 inch PVC) | 1622 | LF | $95 | $154,090 |
| | Connections to Existing San Sewer | 14 | EA | $3,690 | $51,660 |
| | Saw Cut & Pavement Replacement | 47 | SY | $6 | $282 |
| | Lift Stations | 0 | | | $0 |
| | Sanitary Force Mains (list types & sizes) | 0 | | | $0 |
| | Manholes (4 feet) | 1 | EA | $3,822 | $3,822 |

| Item # | Description | Quantity | Unit | Unit Cost | Total Cost |
|---|---|---|---|---|---|
| | Locking Type Manhole Covers & Bolt-Down Rings | | | | $0 |
| | Manhole Internal Watertight Inserts | | | | $0 |
| | Drop Manholes (list dia. & range of depth) | | | | $0 |
| | Marker Posts | | | | $0 |
| | WYE connections for service lines (list sizes) | | | | $0 |
| | | | | | |
| | **Drainage** | | | | |
| | Storm Sewer Pipes 18" RCP | 59 | LF | $63 | $3,717 |
| | Storm Sewer Pipes 30" RCP | 120 | LF | $105 | $12,600 |
| | Box Base 5' Manhole | 1 | EA | $3,077 | $3,077 |
| | Type R L10 Inlet | 1 | EA | $4,677 | $4,677 |
| | FES's | | | | $0 |
| | Trickle Channel | | | | $0 |
| | Rip Rap | | | | $0 |
| | Forebay | | | | $0 |
| | Micropool | | | | $0 |
| | Outlets Structure(s) | | | | $0 |
| | Retaining Walls | | | | $0 |
| | | | | | $737,534.00 |
| | **10% Contingency** | | | | $73,753.40 |
| | **Total Public Improvements** | | | | $811,287.40 |
| | | | | | |
| | **PRIVATE IMPROVEMENTS TO BE INSPECTED** | | | | |
| | | | | | |
| | **Earthwork** | | | | |
| | Import | 38787 | CY | $10.00 | $387,870.00 |
| | | | | | |
| | **Water** | | | | $0 |
| | Backflow Prevention Assemblies (list sizes) | | | | $0 |
| | Fire Line (6 inch DI) | 95 | LF | $65 | $6,175 |
| | 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 18" | 640 | LF | $63 | $40,320 |
| | Storm Sewer Pipe 24" | 700 | LF | $84 | $58,800 |
| | Storm Sewer Pipe 30" | 70 | LF | $105 | $7,350 |
| | Slab Base 5' Manhole | 11 | EA | $3,000 | $33,000 |
| | Type R L5 Inlet | 5 | EA | $4,077 | $20,385 |
| | Type R L10 Inlet | 2 | EA | $4,677 | $9,354 |
| | Type C 5' Inlet | 5 | EA | $2,120 | $10,600 |
| | Type 16 Double Inlet | 2 | EA | $4,260 | $8,520 |
| | Clean Outs | | | | $0 |
| | FES's | | | | $0 |

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|---|---|---|---|---|---|
| | Retaining Walls | 36552 | SF | $45 | $1,644,840 |
| | | | | | $2,227,214 |
| | **10% Contingency** | | | | $222,721.4 |
| | **Total Private Improvements To Be Inspected** | | | | $2,449,935.4 |

| Item # | Description | Quantity | Unit | Unit Cost | Total Cost |
|---|---|---|---|---|---|
| | **PRIVATE IMPROVEMENTS NOT TO BE INSPECTED** | | | | |
| | **Transportation** | | | | |
| | Asphalt Paving | 6875 | SY | $24 | $165,000 |
| | Concrete Drive, Parking Areas | 292 | SY | $35 | $10,220 |
| | Curb/Gutter | 4467 | LF | $11 | $49,137 |
| | Concrete Cross Pans | 9 | SY | $59 | $531 |
| | Parking Areas | | | | $0 |
| | Sidewalks | 2661 | SY | $28 | $74,508 |
| | Handicapped Ramps | 2 | EA | $1,000 | $2,000 |
| | **Water** | | | | |
| | FDC & fire lines to FDC (list types & sizes) (Inspected by Fire, not Public Works) | | | | $0 |
| | Domestic Service Lines (2 inch Type K Copper) (past meter) | 4931 | LF | $13 | $64,103 |
| | Irrigation Lines (past meter) | 0 | | | $0 |
| | **Sanitary Sewer** | | | | $0 |
| | Service Lines (4 inch) | 4228 | LF | $80 | $338,240 |
| | Wye Connection (8 inch to 4 inch) | 18 | EA | $250 | $4,500 |
| | Clean-Outs (4 inch) | 249 | EA | $350 | $87,150 |
| | | | | | $795,389 |
| | **10% Contingency** | | | | $79,538.9 |
| | **Total Private Improvements Not To Be Inspected** | | | | $874,927.9 |
| | **Grand Total** | | | | **$4,136,150.70** |

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.