

| General Information | | Map | |
|--|--|-----------------|--|
| Project ID | | | |
| Street Name | 517 Westbridge Drive | | |
| Site Visit Date | 5/22/13 | | |
| Road Classification | Internal Local | | |
| Project Notes | | | |
| Urban typical section with Curb and gutter | | | |
| Field Notes | | | |
| Design (Existing Site Features) | | | |
| Existing Road Laneage | 2-12' | | |
| Existing Shld Width (paved and grass) (feet) | None | | |
| Existing Side Slopes | Flat | | |
| Existing Guardrail | None | | |
| Depth fm Pavement to Top of Culvert (ft): | 3 | | |
| Pipe Type and Size | 54" CMP | | |
| Pipe Condition (1-5) (1 is new) | 4 | | |
| Condition Notes: 0.5' drop; 1' of sand in pipe (45' pipe length); Capacity Issue | | | |
| Pavement Type/Condition | | | |
| Environmental Features | | | |
| Wetlands | None | | |
| Ditches | None | | |
| | | | |
| | | | |
| Utilities (Visual Inspection) | | | |
| Electric | Buried | | |
| Cable | Buried | | |
| Phone | Buried | | |
| Gas | | | |
| Water | Buried | | |
| Sewer | | | |
| Other | | | |
| Proposed Design | | | |
| Roadway Section | | | |
| Culvert Size & Material | 5' x 3' box, concrete, 45' length | | |
| Utility Relocations | Electric, cable, phone, water | | |
| Guardrail Replacement | | | |
| Miscellaneous Features | | | |
| | | | |
| | | | |
| Planning Cost Estimate | | | |
| Type | Notes | Total | |
| Design | Includes 10% Construction Cost and surveying needs | \$10,091 | |
| Right of Way Cost | Assuming project extends 2,000 sf beyond ROW | \$8,000 | |
| Utility Relocation Cost | Buried utilities | \$14,080 | |
| Construction Cost | Assuming 1/10 acre clearing and grubbing | \$50,911 | |
| Environmental Permits | Assuming minimal environmental permitting required | \$10,000 | |
| Total Planning Estimate | | \$93,082 | |

517 Westbridge Drive

Photo Date:

5/21/2013

Taken By:

David King

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Photo 1:



Photo 2:

Roadway Construction, Utility Relocation and ROW Quantity Calculations

| Roadway Construction | Removal Unit Cost | Installation Unit Cost | Amount | Total Cost |
|---|-------------------|------------------------|--------------------|---------------------|
| Pavement (SF) | \$ 0.73 | \$ 4.87 | 168.00 | \$ 941.70 |
| Curb and Gutter (LF) | \$ 28.56 | \$ 30.60 | 20.00 | \$ 1,183.20 |
| Drain Inlet (EA) | | \$ 3,000.00 | 0.00 | \$ - |
| 4" Sidewalk (SY) | \$ 13.56 | \$ 36.90 | 0.00 | \$ - |
| Guardrail (LF) | \$ 4.88 | \$ 49.09 | 0.00 | \$ - |
| End Anchorage (EA) | | \$ 1,380.00 | 0.00 | \$ - |
| Subtotal | | | | \$ 2,124.90 |
| Grading Complete (5% of Rwy Items & Drng Total \$) | | | | \$ 1,812.24 |
| Roadway Total | | | | \$ 3,937.13 |
| Drainage | Removal Unit Cost | Installation Unit Cost | Amount | Total Cost |
| Trench Excavation (CY) | | \$ 10.38 | 99.17 | \$ 1,029.35 |
| 54" CMP (LF) | \$ 24.60 | | 45.00 | \$ 3,321.00 |
| 54" RCP | | \$ 233.28 | 0.00 | \$ - |
| Class A Conc (CY) | | \$ 892.19 | 27.85 | \$ 24,842.97 |
| Steel (lb) | | \$ 1.42 | 2,529.50 | \$ 3,581.77 |
| Pipe Bedding (CY) | | \$ 48.60 | 12.20 | \$ 592.92 |
| Trench Backfill (CY) | | \$ 2.99 | 93.09 | \$ 278.16 |
| Trench Compaction (CY) | | \$ 6.36 | 74.47 | \$ 473.65 |
| Drainage Total | | | | \$ 34,119.83 |
| Signing and Marking | | Installation Unit Cost | Amount | Total Cost |
| Permanent Striping (LF) | | \$ 0.71 | 0.00 | \$ - |
| Signing and Marking Total | | | | \$ - |
| Staging | | Installation Unit Cost | Amount | Total Cost |
| Clearing and Grubbing (Acre) | | \$ 10,260.00 | 0.10 | \$ 1,026.00 |
| Temporary Pavement | | | | \$ - |
| Temporary Drainage (Stream Diversion) | | \$ 4,428.00 | 1.00 | \$ 4,428.00 |
| Staging Total | | | | \$ 5,454.00 |
| Erosion Control | | Installation Unit Cost | Amount | Total Cost |
| Fine Grading and Seeding (SY) | | \$ 4.39 | 16.33 | \$ 71.74 |
| Temporary Grassing (AC) | | \$ 855.60 | 0.00 | \$ - |
| Type C Silt Fence (LF) | | \$ 4.24 | 180.00 | \$ 762.48 |
| Check Dam Type C Silt Fence (LF) | | \$ 6.79 | 180.00 | \$ 1,222.56 |
| Erosion Control Mats (SY) | | \$ 1.87 | 60.00 | \$ 112.32 |
| Landscape Mulch (SY) | | \$ 3.58 | 60.00 | \$ 214.56 |
| Perm Grassing (AC) | | \$ 1,402.20 | 0.00 | \$ - |
| Rip Rap Type 3 12" (SY) | | \$ 60.98 | 18.67 | \$ 1,138.37 |
| Plastic Filter Fabric (SY) | | \$ 5.72 | 18.67 | \$ 106.85 |
| 4" Ditch Paving (SY) | | \$ 54.65 | 0.00 | \$ - |
| Erosion Control Total | | | | \$ 3,628.87 |
| Construction Cost Total | | | | \$ 47,139.83 |
| Traffic Control (8% of Construction Total \$) | | | | \$ 3,771.19 |
| Construction Cost Grand Total | | | | \$ 50,911.02 |
| Utility Relocation | Removal Unit Cost | Installation Unit Cost | Amount | Total Cost |
| Electric | | | | |
| Aerial | \$ 11.00 | \$ 55.00 | | \$ - |
| Buried | \$ 16.50 | \$ 82.50 | 40.00 | \$ 3,960.00 |
| Wooden Pole | \$ 82.50 | \$ 605.00 | | \$ - |
| Phone | | | | |
| Aerial | \$ 11.00 | \$ 27.50 | | \$ - |
| Buried | \$ 16.50 | \$ 55.00 | 40.00 | \$ 2,860.00 |
| Wooden Pole | \$ 82.50 | \$ 605.00 | | \$ - |
| Cable | | | | |
| Aerial | \$ 11.00 | \$ 27.50 | | \$ - |
| Buried | \$ 16.50 | \$ 55.00 | 40.00 | \$ 2,860.00 |
| Wooden Pole | \$ 82.50 | \$ 605.00 | | \$ - |
| Gas | | | | |
| 4" main | \$ 16.50 | \$ 66.00 | | \$ - |
| Water | | | | |
| 8" main | \$ 16.50 | \$ 93.50 | 40.00 | \$ 4,400.00 |
| Relocate Fire Hydrant (EA) | | \$ 2,609.22 | | \$ - |
| Sewer | | | 0.00 | \$ - |
| 12" main | \$ 16.50 | \$ 82.50 | 0.00 | \$ - |
| Utility Relocation Total | | | | \$ 14,080.00 |
| Right of Way (Sq Ft) | Cost/ Sq Ft | Sq Ft | Total Cost | |
| Permanent Easement | \$ 4.00 | 2,000.00 | \$ 8,000.00 | |
| ROW Total | | | \$ 8,000.00 | |