

Mayor & City Council/BPW Board Joint Capital Street Projects Meeting

- Alaska Avenue Rehabilitation
- Monroe Avenue Water Main Lining and Final Paving
- Monroe/Railroad Revitalization
- 4th Street – Savannah to Burton
- 3rd Street – Savannah to Pilottown
- Manila Avenue – Savannah to Kings
- Oceanview Boulevard – Pilottown to Canary – City Only
- Harborview Road – Pilottown to End
- Hoornkill Avenue – Pilottown to City Limit
- Hoornkill – City Limit to End of Road (County Portion)
- Rodney Avenue – Pilottown to End
- Carey Lane – Pilottown to End

Note: All Costs in 2023 Dollars – Inflation Escalators to be Added Once Project Schedules are Determined



**BPW/City of Lewes
August 22, 2023**



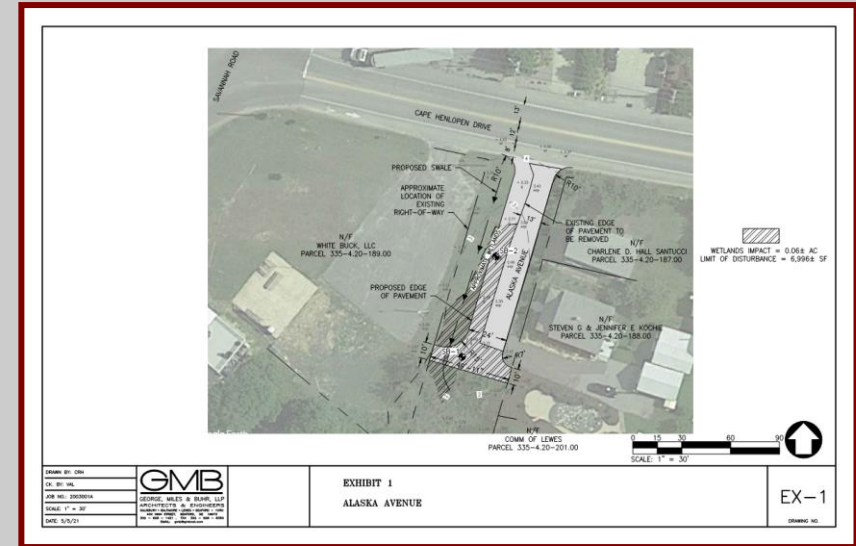
Joint Street Projects – BPW/City – August 22, 2023

Alaska Avenue Street and Utility Improvements

1. Scope of Work

a. Alaska Avenue – City Portion

- i. Porous Asphalt System Street System
- ii. Drainage Swale to Wetlands
- iii. Private Property Transitions
- iv. Construction Cost Estimate - \$115,170
- v. Engineering & Legal Fee Estimate - \$38,330
- vi. Total City Portion Project Estimate - \$153,500



b. Alaska Avenue – BPW Portion

- i. Remove and Replace with 10" PVC Sanitary Sewer
- ii. Sewer Services to ROW at Existing Two (2) Parcels
- iii. Manhole for Proposed Development Discharge
- iv. Abandon Cast Iron and Replace with 8" PVC Water System
- v. Water Services to ROW at Existing Two (2) Parcels
- vi. Tee for Proposed Development Connection
- vii. Private Property Transitions
- viii. Construction Cost Estimate - \$163,440
- ix. Engineering & Legal Fee Estimate - \$55,500
- x. Total BPW Portion Project Cost Estimate - \$218,940

c. Total City/BPW Combined Project Cost Estimate: \$372,440

Monroe Avenue – Freeman to Railroad Water Main Lining

1.Scope of Work

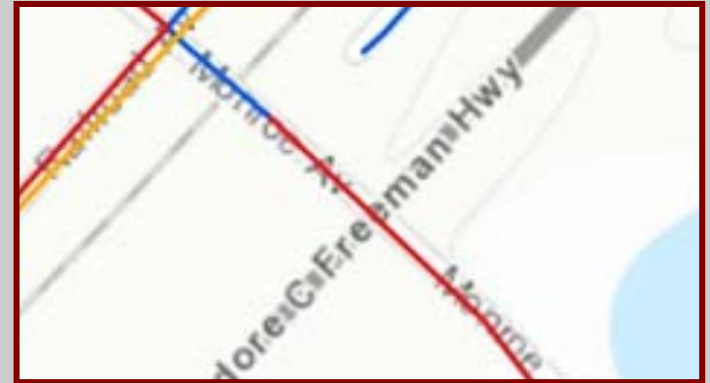
a. Monroe Avenue – City Portion (65' Section from Freeman Intersection to Trailhead Entrance)

- i. 12" Base + 5" Asphalt Street System
- ii. Construction Cost Estimate - \$66,300
- iii. Engineering & Legal Fee Estimate - \$12,921
- iv. Total City Portion Project Estimate - \$79,221

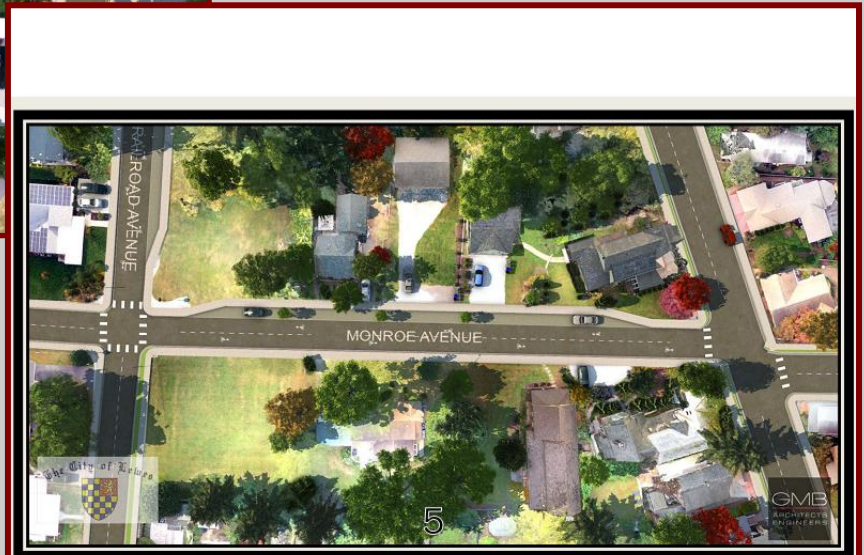
a. Monroe Avenue – BPW Portion

- i. Install Temporary Water System for Two (2) Existing House Services
- ii. Line Existing 6" Steel Water Main – Olde Town Side of Freeman to Trailhead Entrance
- i. Two (2) New House Services
- ii. New Fire Hydrant and Two (2) Gate Valves
- iii. Construction Cost Estimate - \$273,720
- iv. Engineering & Legal Fee Estimate - \$55,083
- v. Total BPW Portion Project Cost Estimate - \$328,803

b.Total City/BPW Combined Project Cost Estimate: \$408,024



Monroe Avenue, Railroad Avenue Complete Rebuild w/Sidewalks, Curb & Gutter



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Railroad Avenue – Monroe Avenue to Adams Avenue – Cost Review

- Complete Rebuild – Aggregate Base, Base Asphalt, Surface Asphalt w/Curb & Gutter
- Railroad/Trail Side – New Sidewalk w/New 6” Curb & Gutter (Replace 8” Curb and Gutter and Sidewalk w/Steep Longitudinal Transitions at Driveways)
- Per Selected Concept
- New Permeable Parking Area (Approximately 10 Spaces) and Sidewalk on Kings Highway Side – Tree Protection
- BPW Utility Work – House Service Tie-overs to Existing 16” Main, Abandon Existing 6” Main (1950’s), and Possible Relining of 8” Sewer Main
 - Construction Cost Estimate (**City Only**): \$670,000
 - Engineering Fee Estimate: \$ 75,000
 - **Total Project Cost Estimate (City Only): \$745,000**
 - **(Note: Approximately \$110,000 of Sidewalk Costs)**

Monroe Avenue – Kings Highway to Railroad Avenue – Cost Review

- Complete Rebuild – Aggregate Base, Base Asphalt, Surface Asphalt w/Curb & Gutter & Sidewalk Both Sides Per Selected Concept – Permeable Paver Parallel Parking Spaces (Approximately 8 Spaces)
- ADA Ramp Improvements at Monroe/Kings and Thermoplastic Crosswalks
- BPW Water, Sewer, Storm Sewer Upgrades and Chesapeake Utilities Gas Coordination
 - Construction Cost Estimate (City Only): \$630,000
 - Engineering Fee Estimate: \$80,000
 - **Total Project Cost Estimate (City Only): \$710,000**
 - **(Note: Approximately \$100,000 of Sidewalk Costs)**

BPW Project Cost Estimate: \$1,300,000 (Approximately \$550,000 Railroad)

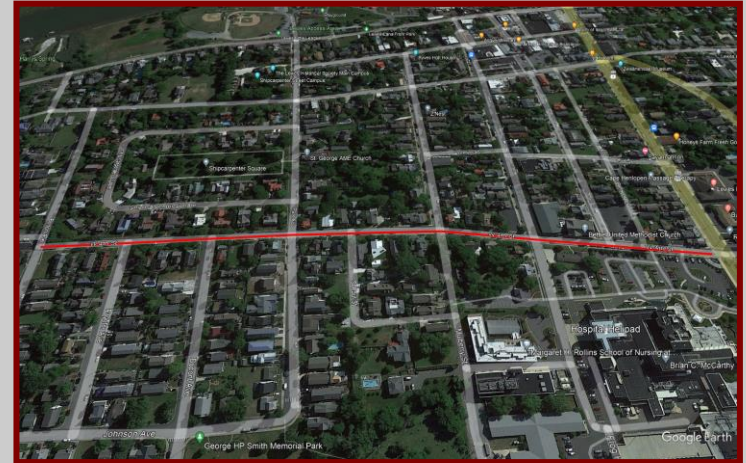
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4th Street – Savannah to Burton Street Rehabilitation and Utility Improvements

1. Scope of Work

a. 4th Street – City Portion

- i. 10" Stone Base and 5" Asphalt Street System
- ii. 8" Type 3 Curb and Gutter System
- iii. 5' Wide and 4' Wide Sidewalk Sections (**\$274,000 Cost**)
- iv. ADA Ramp Improvements and Thermoplastic Crosswalks
- v. Private Property Transitions
- vi. Construction Cost Estimate - \$1,636,195
- vii. Engineering & Legal Fee Estimate - \$245,000
- viii. Total City Portion Project Estimate - \$1,881,195
- ix. (**Note: Less \$500,000 if Only Savannah to Park**)



b. 4th Street – BPW Portion

- i. Remove and Replace with 8" and 15" PVC Sanitary Sewer
- ii. New Sewer Services to ROW at Existing Parcels (35)
- iii. New Manholes (11)
- iv. Abandon Cast Iron (and Short Length of Ductile Iron) and Replace with 10" Water System
- v. Water Services to Existing Parcels (35)
- vi. Side Street Connections for Future Improvements to Side Street Water System
- vii. New Stormwater Drainage Inlets and Approximately 700' of Piping Improvements
- viii. Private Property Transitions
- ix. Construction Cost Estimate - \$2,569,525
- x. Engineering & Legal Fee Estimate - \$512,500
- xi. Total BPW Portion Project Cost Estimate - \$3,082,025

c. Total City/BPW Combined Project Cost Estimate: \$4,963,220

Joint Street Projects – BPW/City – August 22, 2023

3rd Street – Savannah to Pilottown Including Queen Anne Street Rehabilitation and Utility Improvements

1. Scope of Work

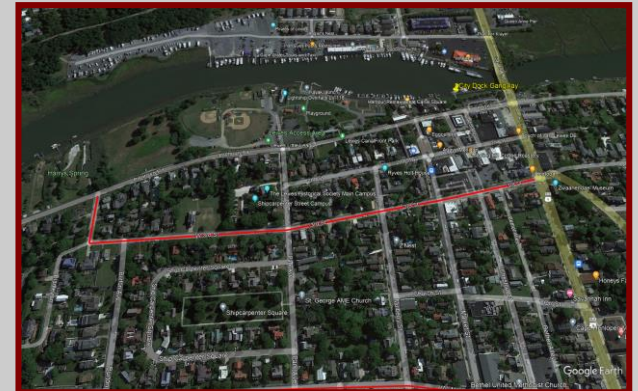
a. 3rd Street – City Portion

- i. 10” Stone Base and 5” Asphalt Street System
- ii. 8” Type 3 Curb and Gutter System
- iii. Type 2 Roll Curb and Gutter System (Shipcarpenter to Pilottown)
- iv. 5’ Wide Sidewalk Sections (**Savannah to Shipcarpenter – \$175,000 Concrete and \$130,000 Brick (Paver) Cost**)
- v. ADA Ramp Improvements and Thermoplastic Crosswalks
- vi. Private Property Transitions
- vii. Construction Cost Estimate - \$1,823,775
- viii. Engineering & Legal Fee Estimate - \$313,500
- ix. Total City Portion Project Estimate - \$2,137,275

b. 3rd Street – BPW Portion

- i. Remove and Replace with 8” and 12” PVC Sanitary Sewer
- ii. New Sewer Services to ROW at Existing Parcels (30)
- iii. New Manholes (13)
- iv. Abandon Cast Iron (and Short Length of Ductile Iron) and Replace with 12” (Mainly) and 8” Water System
- v. Water Services to ROW at Existing Parcels (30)
- vi. New Gate Valves for Shutdown Flexibility and New Fire Hydrants as Necessary
- vii. New Stormwater Drainage Inlets and Approximately 950’ of Piping Improvements
- viii. Private Property Transitions
- ix. Construction Cost Estimate - \$2,672,300
- x. Engineering & Legal Fee Estimate - \$547,500
- xi. Total BPW Portion Project Cost Estimate - \$3,219,800

c. Total City/BPW Combined Project Cost Estimate: \$5,357,075



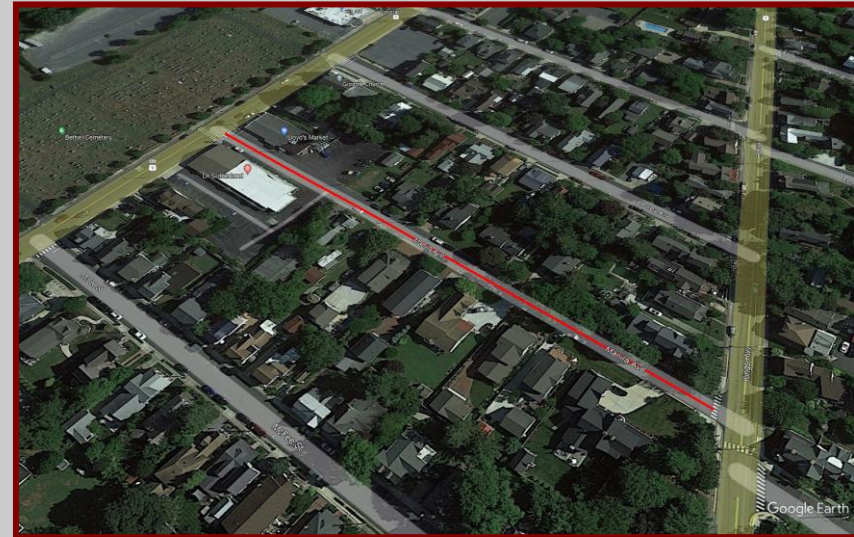
Joint Street Projects – BPW/City – August 22, 2023

Manila Avenue – Savannah to Kings Street Rehabilitation and Utility Improvements

1. Scope of Work

a. Manila Avenue – City Portion

- i. 8" Stone Base and 3.5" Asphalt Street System
- ii. 8" Type 3 Curb and Gutter System
- iii. No Sidewalk on Manila
- iv. Coordination at IGA and Orthopedic Doctors Office
- v. Thermoplastic Crosswalks at Each End of Manila
- vi. Private Property Transitions
- vii. Construction Cost Estimate - \$533,665
- viii. Engineering & Legal Fee Estimate - \$110,233
- ix. Total City Portion Project Estimate - \$643,898



b. Manila Avenue – BPW Portion

- i. Remove and Replace with 8" PVC Sanitary Sewer
- ii. New Sewer Services to ROW at Existing Parcels (16)
- iii. New Manholes (3)
- iv. Abandon Cast Iron and Replace with 8" Water System
- v. Water Services to ROW at Existing Parcels (16)
- vi. New Stormwater Drainage Inlets and Approximately 400' of Piping Improvements
- vii. Private Property Transitions
- viii. Construction Cost Estimate - \$770,265
- ix. Engineering & Legal Fee Estimate - \$160,000
- x. Total BPW Portion Project Cost Estimate - \$930,265

c. Total City/BPW Combined Project Cost Estimate: \$1,574,163

Joint Street Projects – BPW/City – August 22, 2023

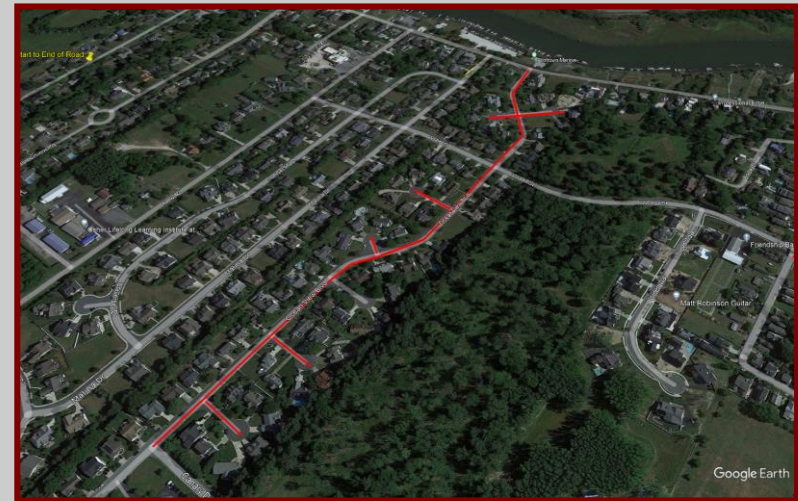
Oceanview Boulevard – Pilottown to Canary Including Cul-de-Sacs (Not Bluebird) Street Improvements Only

1. Scope of Work

a. Oceanview Boulevard – Pilottown to Canary Drive (Including Brownson, Sea Horse, Gower, Lizar and Wellington)

- i. Full Width Mill and 3” Asphalt Overlay per Pavement Schedule
- ii. Miscellaneous Roll Curb Repairs
- iii. No Sidewalk
- iv. ADA Ramp Improvements and Thermoplastic Crosswalks at 4th Street
- i. Construction Cost Estimate - \$404,000
- ii. Engineering Fee Estimate - \$60,000

i. Total City Portion Project Estimate - \$464,000



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Harborview Road – Pilottown to End Street Improvements

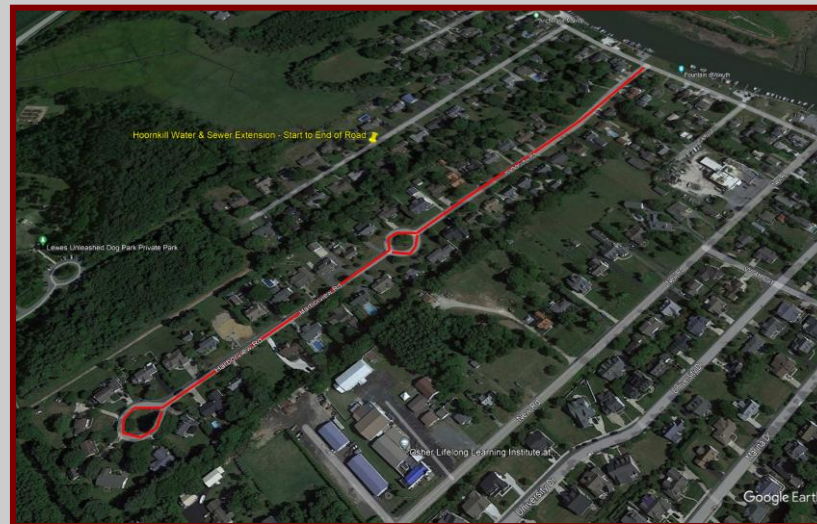
1. Scope of Work

a. Harborview Road – Pilottown to End Including Two (2) Roundabouts

- i. Full Width Mill and 3" Asphalt Overlay per Pavement Schedule
- ii. Miscellaneous Roll Curb Repairs
- iii. No Sidewalk
- iv. Construction Cost Estimate - \$200,000
- v. Engineering Fee Estimate - \$32,500

*Note: BPW Water and Sewer is
PVC Installed circa 1978 – Replacement
Not Necessary*

i. Total City Portion Project Estimate - \$232,500



Joint Street Projects – BPW/City – August 22, 2023

Hoornkill Avenue – Pilottown to Existing City Limits Street Rehabilitation and Utility Improvements

1. Scope of Work

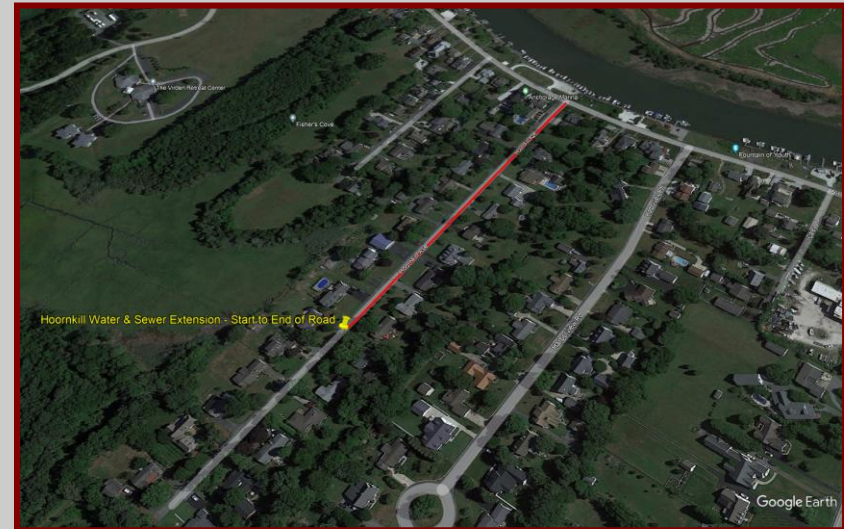
a. Hoornkill Avenue – City Portion

- i. 8" Stone Base and 3.5" Asphalt Street System
- ii. No Curb and Gutter System
- iii. No Sidewalk
- iv. Construction Cost Estimate - \$301,125
- v. Engineering & Legal Fee Estimate - \$60,151
- vi. Total City Portion Project Estimate - \$361,276

b. Hoornkill Avenue – BPW Portion

- i. Remove and Replace with 8" PVC Sanitary Sewer
- ii. New Sewer Services to ROW at Existing Parcels (18)
- iii. New Manholes (3)
- iv. Abandon Cast Iron and Replace with 8" PVC Water System
- v. Water Services to ROW at Existing Parcels (18)
- vi. Construction Cost Estimate - \$511,720
- vii. Engineering & Legal Fee Estimate - \$102,418
- viii. Total BPW Portion Project Cost Estimate - \$614,138

c. Total City/BPW Combined Project Cost Estimate: \$975,414



Joint Street Projects – BPW/City – August 22, 2023

Rodney Avenue – Pilottown to End of Existing Street Street Rehabilitation and Utility Improvements

1. Scope of Work

a. Rodney Avenue – City Portion

- i. 8" Stone Base and 3.5" Asphalt Street System
- ii. No Curb and Gutter System
- iii. No Sidewalk
- iv. Construction Cost Estimate - \$230,450
- v. Engineering & Legal Fee Estimate - \$46,536
- vi. Total City Portion Project Estimate - \$276,986

b. Rodney Avenue – BPW Portion

- i. Remove and Replace with 8" PVC Sanitary Sewer
- ii. New Sewer Services to ROW at Existing Parcels (18)
- iii. New Manholes (2)
- iv. Abandon Ductile Iron and Replace with 8" PVC Water System
- v. Water Services to ROW at Existing Parcels (18)
- vi. One (1) New Fire Hydrant and Two (2) New Gate Valves for Operational Flexibility
- vii. Construction Cost Estimate - \$398,420
- viii. Engineering & Legal Fee Estimate - \$79,238
- ix. Total BPW Portion Project Cost Estimate - \$477,658

c. Total City/BPW Combined Project Cost Estimate: \$754,644



Joint Street Projects – BPW/City – August 22, 2023

Carey Lane – Pilottown to End Street Rehabilitation and Utility Improvements



1. Scope of Work

a. Carey Lane – City Portion

- i. 8" Stone Base and 3.5" Asphalt Street System
- ii. No Curb and Gutter System
- iii. No Sidewalk
- iv. Construction Cost Estimate - \$168,850
- v. Engineering & Legal Fee Estimate - \$33,727
- vi. Total City Portion Project Estimate - \$202,577

b. Carey Lane – BPW Portion

- i. No Sewer Work – Records Indicate Existing 8" PVC Sanitary Sewer
- ii. Abandon Cast Iron and Replace with 8" PVC Water System
- iii. Water Services to ROW at Existing Parcels (8)
- iv. One (1) New Fire Hydrant and Two (2) New Gate Valves
- v. Construction Cost Estimate - \$149,325
- vi. Engineering & Legal Fee Estimate - \$29,908
- vii. Total BPW Portion Project Cost Estimate - \$179,233

c. Total City/BPW Combined Project Cost Estimate: \$381,810