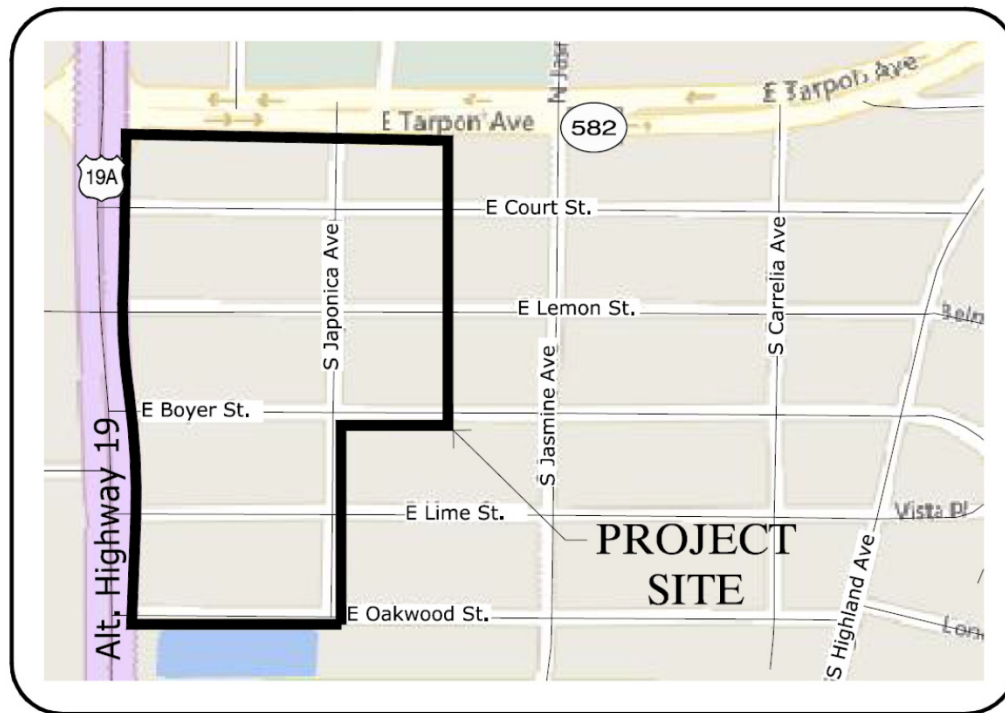


- Project is Designed by King Engineering Associates, Inc.
- Project Manager/Engineer of Record: Loc P. Truong, P.E.
- Project Engineer/Engineer: Matthew W. Davis, E.I.
Cristina E. Lacorazza

Project Description

- Project is Located East of U.S. 19, South of E. Tarpon Ave.



LOCATION MAP

Project Description

- Approximately 3,000 LF of 8" PVC Sanitary Sewer Mains (Gravity)
- Approximately 450 LF of 4" PVC Force Main
- Twelve (12) Pre-cast Concrete Manholes
- Connects to Ex. Sanitary Sewer System at Intersection of South Japonica Ave. & East Oakwood St.
- Full Road Asphalt Restoration (EOP to EOP)



City of Tarpon Springs, Florida
324 East Pine Street
Tarpon Springs, Florida 34688-5004

THE BOARD OF CITY COMMISSIONERS
CHRIS ALAHOUZOS TOWNSEND TAPAFANI MAYOR
DAVID BANISTER COMMISSIONER
REA SIEBER COMMISSIONER
SUSAN SLATTERY COMMISSIONER

PLANS PREPARED BY:

King
ENGINEERING ASSOCIATES, INC.
4921 Memorial Highway, One Memorial Center, Suite 300
Tampa, Florida 33634
Phone: (813) 840-8881, Fax: (813) 880-8882
www.kingengineering.com
Engineering License #2610

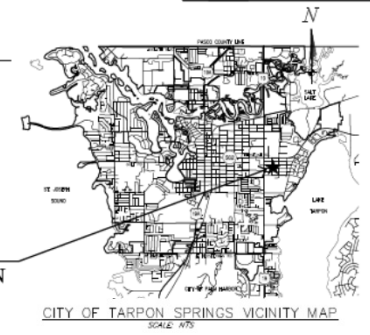
CITY OF TARPON SPRINGS
ENGINEERING SERVICES & UTILITIES
SANTARY SEWER EXPANSION PROJECT
PHASE III

SECTION 12 & 13, TOWNSHIP 27 S, RANGE 15 E
CITY PROJECT NO: INO217



LOCATION MAP

FOR:
CITY OF TARPON SPRINGS
ENGINEERING SERVICES & UTILITIES
324 EAST PINE STREET
P.O. BOX 5004
TARPON SPRINGS, FLORIDA 34688-5004



PROJECT LOCATION

Sheet List Table

| Sheet Number | Sheet Title |
|----------------|-----------------------------------------------------------|
| General | |
| G0.00 | COVER SHEET |
| G1.00 | ABBREVIATION, LEGEND AND SUE TABLE |
| G1.01 | NOTES |
| G1.02 | REPORT OF SURVEY |
| G1.03 | CONSTRUCTION POLLUTION PREVENTION PLAN |
| Civil | |
| C1.00 | OVERALL SITE PLAN AND KEY SHEET |
| C1.01 | COURT STREET PLAN & PROFILE STA. 0+00 THRU STA. 5+78 |
| C1.02 | COURT STREET PLAN & PROFILE STA. 5+78 THRU STA. 11+56 |
| C1.03 | LEMON STREET PLAN & PROFILE STA. 20+00 THRU STA. 25+78 |
| C1.04 | LEMON STREET PLAN & PROFILE STA. 25+78 THRU STA. 31+56 |
| C1.05 | BOYER STREET PLAN & PROFILE STA. 44+36 THRU STA. 50+14 |
| C1.06 | LIME STREET PLAN & PROFILE STA. 64+41 THRU STA. 70+18 |
| C1.07 | JAPONICA AVENUE PLAN & PROFILE STA. 80+00 THRU STA. 83+00 |
| C1.08 | JAPONICA AVENUE PLAN & PROFILE STA. 83+00 THRU STA. 88+78 |
| C1.09 | JAPONICA AVENUE PLAN & PROFILE STA. 88+78 THRU STA. 94+56 |
| C2.00 | PAVEMENT RESTORATION AND MARKING PLAN (1) |
| C2.01 | PAVEMENT RESTORATION AND MARKING PLAN (2) |
| Details | |
| D1.00 | TREE PROTECTION AND EROSION CONTROL DETAILS |
| D1.01 | MISCELLANEOUS SANITARY SEWER AND RESTORATION DETAILS |
| D1.02 | SANITARY SEWER DETAILS (1) |
| D1.03 | SANITARY SEWER DETAILS (2) |
| D1.04 | PAVEMENT DETAILS |



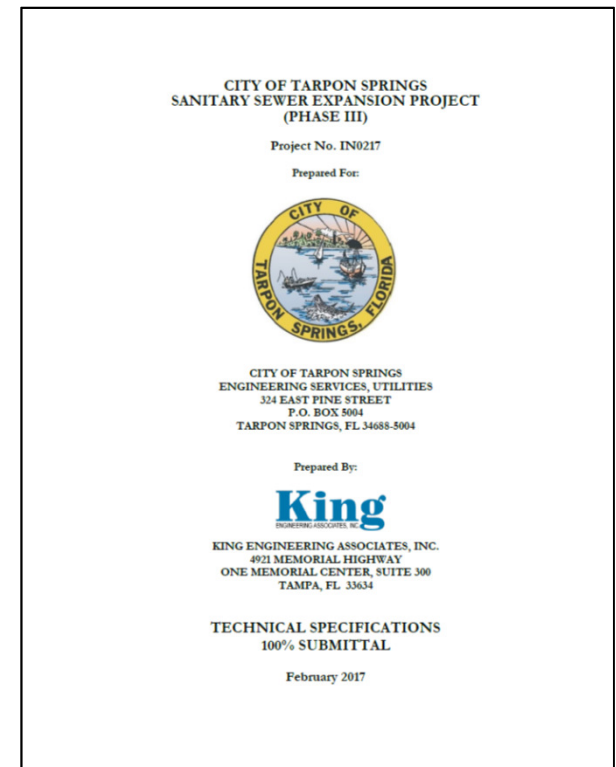
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| NO. | DATE | REVISION | BY |
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| | | | |

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

LOC P. TRUONG, P.E.
FL P.E. NO. 05709

SPR. SUBMITTAL
05/20/17

- City of Tarpon Springs Standard Specifications
- Supplemented with Technical Specifications by King



Engineer's Opinion of Probable Construction Costs



- Estimate Construction Cost: \$1.2M

City of Tarpon Springs Sanitary Sewer Expansion Project (Phase III) Engineer's Opinion of Probable Construction Costs 100% Submittal

| Sanitary Sewer Improvements | | | | |
|-------------------------------------------|-------|------|--------------|------------|
| Description | Qty. | Unit | Unit Price | Amount |
| Dewatering | 3,300 | LF | \$ 16.50 | \$ 54,500 |
| Restoration/Site Work | | | | |
| Roadway Restoration | | | | |
| 12" Subgrade | 4,200 | SY | \$ 8.50 | \$ 35,700 |
| 10" Base | 4,200 | SY | \$ 40.00 | \$ 168,000 |
| Asphalt Milling | 4,000 | SY | \$ 9.50 | \$ 38,000 |
| Asphalt Leveling Course - SP-9.5 Asphalt | 50 | TONS | \$ 150.00 | \$ 7,500 |
| 1.5" SP-9.5 Asphalt | 7,250 | SY | \$ 10.50 | \$ 76,100 |
| Pavement Marking/Signage | 1 | LS | \$ 3,000.00 | \$ 3,000 |
| Valley Gutter Curb | 2,500 | LF | \$ 12.00 | \$ 30,000 |
| 5' Concrete Sidewalk | 40 | SY | \$ 32.00 | \$ 1,280 |
| Concrete Driveway | 180 | SY | \$ 45.00 | \$ 8,100 |
| Flowable Fill for Conflicts | 15 | CYD | \$ 175.00 | \$ 2,600 |
| Sodding | 1,300 | SY | \$ 4.80 | \$ 6,200 |
| Tree Removal | | | | |
| 12-inch or Less | 1 | EA | \$ 500.00 | \$ 500 |
| 13-inch to 24-inch | 1 | EA | \$ 1,350.00 | \$ 1,400 |
| 25-inch to 36-inch | 2 | EA | \$ 2,400.00 | \$ 4,800 |
| Root Pruning | 1,000 | LF | \$ 5.50 | \$ 5,500 |
| Manholes (w/o Agru Liner) | | | | |
| Concrete Sewer Manhole <8' | 9 | EA | \$ 3,500.00 | \$ 31,500 |
| Concrete Sewer Manhole 8'-12' | 1 | EA | \$ 5,000.00 | \$ 5,000 |
| Concrete Sewer Manhole 12'-16' | 1 | EA | \$ 10,000.00 | \$ 10,000 |
| Concrete Sewer Manhole >16' | 1 | EA | \$ 15,000.00 | \$ 15,000 |
| Gravity Sewer Piping (PVC and DIP) | | | | |
| 8" PVC SDR-35 <10' | 2250 | LF | \$ 60.00 | \$ 135,000 |
| 8" PVC SDR-26 10'-15' | 290 | LF | \$ 125.00 | \$ 36,300 |
| 8" PVC SDR-26 > 15' | 370 | LF | \$ 345.00 | \$ 127,700 |
| 8" DIP <10' | 50 | LF | \$ 145.00 | \$ 7,250 |
| Connection to Existing Manhole | 1 | LS | \$ 7,500.00 | \$ 7,500 |
| Force Main | | | | |
| 4" C-900 PVC | 450 | LF | \$ 25.00 | \$ 11,300 |
| DI Fittings | 0.25 | TONS | \$ 13,000.00 | \$ 3,300 |
| 4" MJ Plug Valve | 3 | EA | \$ 1,000.00 | \$ 3,000 |
| Service Connections | | | | |
| 6" PVC Street Lateral and Cleanout | | | | |
| ≤ 4' deep | 50 | EA | \$ 1,900.00 | \$ 95,000 |
| >4' deep | 5 | EA | \$ 2,200.00 | \$ 11,000 |
| 8" PVC Street Lateral and Cleanout | 1 | EA | \$ 2,200.00 | \$ 2,200 |

Sanitary Sewer Subtotal \$ 945,000.00

Owner's Contingency Allowance \$ 100,000

MOT (3%) \$ 29,000

Mobilization/Demobilization (5%) \$ 48,000

Contract Documents/Insurance/Indemnification (3%) \$ 29,000

Total \$ 1,151,000.00

| Additive Alternate Items | | | | |
|------------------------------------------------|------|------|-------------|-----------|
| Description | Qty. | Unit | Unit Price | Amount |
| Agru Liner for Precast Sanitary Sewer Manholes | 12 | EA | \$ 3,000.00 | \$ 36,000 |

Additive Alternate Items Subtotal \$ 36,000.00

Project Status and Schedule

- Design Initiated: June 2016
- 50% Design Plans: November 2016
- FDEP Permitting Plans: January 2017
- 100% Design Plans: February 2017
- Finalize Bid Documents: March 2017
- Bidding and Award: April – May 2017
- Construction: June 2017 – April 2018