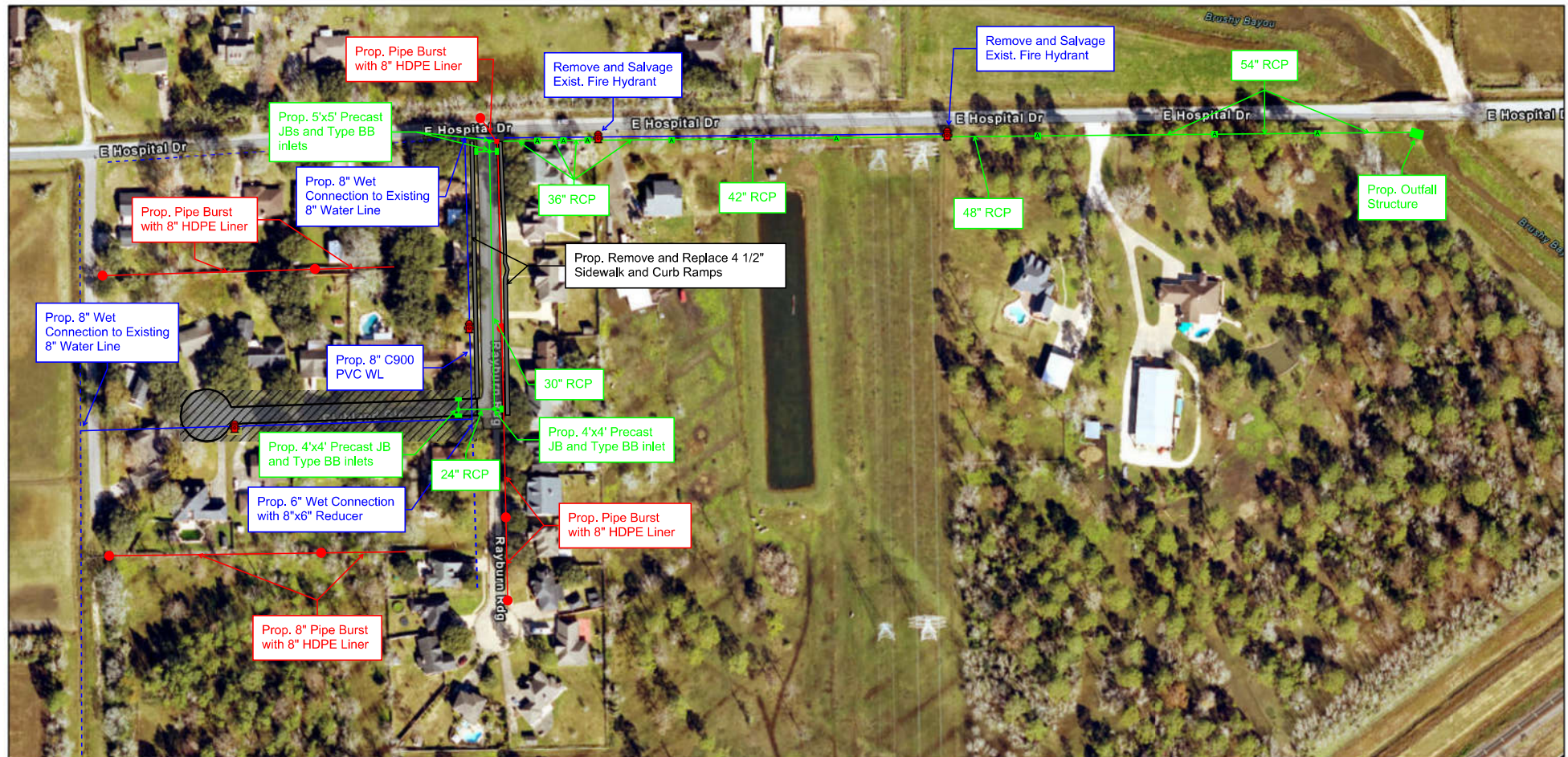


City of Angleton, Texas	
2026 Street Reconstruction Cost Evaluation	
Summary of Costs	
Roadway	Proposed Cost
<u>Rayburn Ridge and Richland Circle</u>	\$ 3,244,637.50
From E. Hospital Dr to intersection between Rayburn Ridge and Richland Circle (975 LF of roadway, additional 1500 LF for storm sewer improvements down E. Hospital Drive): Asphalt rehabilitation of Richland Circle, converting an existing asphalt roadway to a concrete curb and gutter on Rayburn Ridge, concrete sidewalks, drainage improvements, and utility improvements	
<u>Warren Street (Asphalt)</u>	\$ 984,652.50
From W. Wilkins Street to 75 feet west of TX-274 Loop (1825 LF): Asphalt rehabilitation of an existing asphalt roadway, drainage improvements, and utility improvements	
<u>Warren Street (Concrete Curb and Gutter)</u>	\$ 4,306,575.00
From W. Wilkins Street to 75 feet west of TX-274 Loop (1400 LF): Replacement of an existing asphalt roadway with a boulevard section concrete curb and gutter roadway, drainage improvements, and utility improvements	
<u>East Locust Street</u>	\$ 1,445,210.00
From N. Arcola Street to N. Rock Island Street (1400 LF): Asphalt rehabilitation of an existing asphalt roadway, drainage improvements, and utility improvements	
<u>Various Point Repairs</u>	\$ 1,499,420.00
Various concrete panel replacements, concrete point repairs, and storm sewer point repairs where needed	
<u>Cemetery Road</u>	\$ 3,389,425.00
From 90 feet east of Parklane Street to 75 feet west of S. Downing Street (1450 LF): Lowering an existing asphalt roadway, expanding cross section to match 40' wide concrete curb and gutter section, converting to a concrete curb and gutter roadway, concrete sidewalks, drainage improvements, and utility improvements	
<u>Swift Street</u>	\$ 1,351,350.00
From N. Chenango Street to N. Valderas Street (750 LF): Reconstruction of existing concrete curb and gutter roadway, drainage improvements, and utility improvements	
<u>Tinsley Street</u>	\$ 5,365,587.50
From Cannan Drive to W. Wilkins Street (3300 LF): Reconstruction of an existing asphalt curb and gutter roadway with a concrete curb and gutter roadway, sidewalk improvements, drainage improvements, and utility improvements	
<u>West Miller Street</u>	\$ 6,312,670.00
From 30 feet east of N. Parrish Street to outfall at intersection with W. Ash Street (1825 LF): Lowering an existing asphalt roadway, expanding cross section to 36' wide concrete curb and gutter section, concrete sidewalks, drainage improvements, and utility improvements	
<u>North Parrish Street</u>	\$ 2,078,992.50
From W. Live Oak Street to W. Miller Street (975 LF): Lowering existing asphalt roadway with roadside ditches, converting to a concrete curb and gutter roadway, concrete sidewalks, drainage improvements, and utility improvements	

<u>East Kiber Road (Asphalt)</u>	\$ 4,556,565.00
From 288B to S. Downing Street (4000 LF): Asphalt rehabilitation of an existing asphalt roadway, drainage improvements, and utility improvements	
<u>East Kiber Road (Concrete Curb and Gutter)</u>	\$ 7,184,060.00
From 288B to S. Downing Street (4000 LF): Replacement of an existing asphalt roadway with concrete curb and gutter roadway, drainage improvements, and utility improvements	
<u>Dwyer Street</u>	\$ 568,262.50
From 90- degree bend in roadway to 288B (450 LF): Realignment of an existing asphalt roadway, drainage improvements, and utility improvements	
<u>Tigner Drive</u>	\$ 1,506,700.00
From dead end to Austin Colony subdivision limit (350 LF):Extension of an existing concrete curb and gutter roadway past drainage ditch into Austin Colony Subdivision	

Rayburn Ridge and Richland Circle Paving, Drainage, & Utility Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

Prop. Storm Sewer Improvements



Prop. Asphalt Reclamation and 2" Type D HMA Overlay



Prop. 7" Reinforced Concrete Pavement



Prop. Manhole Rehabilitation and Inflow Protector



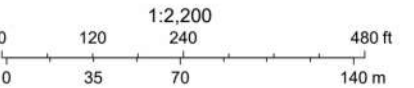
Prop. Sump Manhole



Prop. Fire Hydrant



Prop. Type A Inlet



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

Roadway:		Richland Circle and Rayburn Ridge			
Length of Proposed Reconstruction/Rehabilitation		975 L.F.			
Width of Proposed Roadway		Match Exist.			
Pavement Rating:		7			
Type of Reconstruction		From E. Hospital Dr to intersection between Rayburn Ridge and Richland Circle (975 LF of roadway, additional 1500 LF for storm sewer improvements down E. Hospital Drive): Asphalt rehabilitation of Richland Circle, converting an existing asphalt roadway to a concrete curb and gutter on Rayburn Ridge, concrete sidewalks, drainage improvements, and utility improvements			
Rayburn Ridge and Richland Circle					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 75,000.00	\$ 75,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 100,000.00	\$ 100,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 7,500.00	\$ 7,500.00
Subtotal General Items				\$ 182,500.00	
Roadway Items					
4	Removal of Existing Asphalt Pavement and Curb, complete in place, the sum of:	S.Y.	1,900	\$ 25.00	\$ 47,500.00
5	Recycled Cement Stabilized Base Course, 8" minimum depth, including the removal of any excess material and Microcracking of stabilized base, complete in place, the sum of:	S.Y.	2,200	\$ 15.00	\$ 33,000.00
6	Cement for Base Course (8% by weight), complete in place, the sum of:	TON	65	\$ 325.00	\$ 21,125.00
7	Prime Coat, complete in place, the sum of:	GAL.	800	\$ 5.00	\$ 4,000.00
8	2" Type D HMAc overlay, including tack coat, complete in place, the sum of:	S.Y.	2,000	\$ 40.00	\$ 80,000.00
9	6" Thick Reinforced Monolithic Concrete Curb, complete in place, the sum of:	L.F.	1,100	\$ 40.00	\$ 44,000.00
10	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	950	\$ 10.00	\$ 9,500.00
11	Asphalt transition to connect Richland Circle to Rayburn Ridge and Rayburn Ridge to Hospital Drive consisting of 2" thick Type D Asphalt Overlay, 6" thick Black Base, and 8" thick Cement Stabilized Sand Subgrade, complete in place, the sum of:	S.Y.	120	\$ 300.00	\$ 36,000.00
12	7" Thick Reinforced Concrete Pavement, complete in place, the sum of:	S.Y.	1,900	\$ 85.00	\$ 161,500.00
13	8" Thick Lime Stabilized Subgrade, complete in place, the sum of:	S.Y.	2,300	\$ 15.00	\$ 34,500.00
14	Lime for Lime Stabilized Subgrade, complete in place, the sum of:	TON	60	\$ 400.00	\$ 24,000.00
15	4-1/2" Thick Concrete Sidewalk, complete in place, the sum of:	S.F.	5,000	\$ 10.00	\$ 50,000.00
16	Concrete Curb Ramps, complete in place, the sum of:	EA.	2	\$ 3,500.00	\$ 7,000.00
17	Remove and Replace 6" Thick Concrete Driveway, complete in place, the sum of:	S.Y.	250	\$ 125.00	\$ 31,250.00
18	Concrete paving header, complete in place, the sum of:	L.F.	40	\$ 30.00	\$ 1,200.00
19	Temporary driveways, complete in place, the sum of:	EA.	5	\$ 1,500.00	\$ 7,500.00
Subtotal Roadway Items:				\$ 592,075.00	
Storm Sewer Items					
20	Remove Existing Inlet, all sizes, complete in place, the sum of:	EA.	1	\$ 600.00	\$ 600.00
21	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	L.F.	75	\$ 150.00	\$ 11,250.00
21	Furnish and Install 30" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	L.F.	450	\$ 190.00	\$ 85,500.00
22	Furnish and Install 36" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	L.F.	350	\$ 260.00	\$ 91,000.00
23	Furnish and Install 42" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	L.F.	400	\$ 300.00	\$ 120,000.00
24	Furnish and Install 48" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	L.F.	400	\$ 315.00	\$ 126,000.00
25	Furnish and Install 54" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	L.F.	650	\$ 425.00	\$ 276,250.00
26	Furnish and Install Storm Sewer Inlet, complete in place, the sum of:	E.A.	13	\$ 6,000.00	\$ 78,000.00

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
27	Furnish and Install 5'x5' Precast Storm Sewer Junction Box, complete in place, the sum of:	E.A.	3	\$ 6,500.00	\$ 19,500.00
28	Furnish and Install 6'x6' Utility Conflict Storm Junction Box, complete in place, the sum of:	EA.	1	\$ 10,000.00	\$ 10,000.00
29	Regrade swale to promote positive drainage, complete in place, the sum of:	L.F.	1,700	\$ 20.00	\$ 34,000.00
30	Remove existing outfall, complete in place, the sum of:	S.F.	315	\$ 10.00	\$ 3,150.00
31	18" Thick Class B Riprap, complete in place, the sum of:	S.Y.	35	\$ 165.00	\$ 5,775.00
32	6" thick reinforced concrete paving for outfall structure, complete in place, the sum of:	S.F.	510	\$ 20.00	\$ 10,200.00
33	Full rough 2'x12'x16' pressure treated timbers, complete in place, the sum of:	L.F.	30	\$ 110.00	\$ 3,300.00
34	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	2,325	\$ 5.00	\$ 11,625.00
Subtotal Storm Sewer Items:					\$ 886,150.00
Water Line Items					
35	8" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	3,400	\$ 125.00	\$ 425,000.00
36	2" Diameter Wet Connection, complete in place, the sum of:	EA.	2	\$ 600.00	\$ 1,200.00
37	6" Diameter Wet Connection, complete in place, the sum of:	EA.	1	\$ 2,500.00	\$ 2,500.00
38	8" Diameter Wet Connection, complete in place, the sum of:	EA.	1	\$ 2,700.00	\$ 2,700.00
39	2" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	2	\$ 500.00	\$ 1,000.00
40	6" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	1	\$ 800.00	\$ 800.00
41	8" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	1	\$ 1,000.00	\$ 1,000.00
42	8" Gate Valve & Box, AWWA C509, mechanical joint, resilient wedge, NRS open counter clockwise with valve boxes, complete in place, the sum of:	EA.	4	\$ 4,200.00	\$ 16,800.00
43	6" Gate Valve & Box, AWWA C509, mechanical joint, resilient wedge, NRS open counter clockwise with valve boxes, complete in place, the sum of:	EA.	4	\$ 3,000.00	\$ 12,000.00
44	Remove and Salvage Fire Hydrant Assembly, complete in place, the sum of:	EA.	2	\$ 1,000.00	\$ 2,000.00
45	Fire Hydrant Assembly, complete in place, the sum of:	EA.	4	\$ 8,000.00	\$ 32,000.00
46	Service Line Reconnection, complete in place, the sum of:	EA.	23	\$ 3,000.00	\$ 69,000.00
47	Trench Protection for Water Line, complete in place, the sum of:	L.F.	3,400	\$ 5.00	\$ 17,000.00
Subtotal Water Line Items:					\$ 583,000.00
Sanitary Sewer Items					
48	Pipe Burst existing 6" Sanitary Sewer with 8" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	1,100	\$ 65.00	\$ 71,500.00
49	Pipe Burst existing 8" Sanitary Sewer with 8" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	825	\$ 65.00	\$ 53,625.00
50	Furnish and Install 5'x5' Precast Utility Conflict Box with Sump, including steel casing, complete in place, the sum of:	EA.	1	\$ 8,000.00	\$ 8,000.00
51	4-inch and 6-inch service connection (by excavation), all depth, with or without stack, including new cleanout at the right-of-way, complete in place, the sum of:	EA.	33	\$ 2,500.00	\$ 82,500.00
52	Rehabilitate existing manhole by 1-inch cementitious liner, complete in place, the sum of:	V.F.	40	\$ 450.00	\$ 18,000.00
53	Remove and replace existing sanitary sewer manhole ring and cover with 32" ring and cover and adjust existing sanitary sewer manholes to grade complete in place, the sum of:	EA.	8	\$ 1,500.00	\$ 12,000.00
54	Furnish and install sanitary sewer manhole inflow protector, all sizes, complete in place, the sum of:	EA.	8	\$ 300.00	\$ 2,400.00
55	Sanitary sewer trench safety, all depths, complete in place, the sum of:	L.F.	825	\$ 5.00	\$ 4,125.00
Subtotal Sanitary Sewer Items:					\$ 252,150.00
Subtotal Base Items:					\$ 2,495,875.00
30% Contingency:					\$ 748,762.50
Total Preliminary Cost:					\$ 3,244,637.50

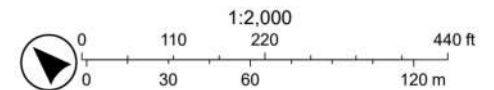
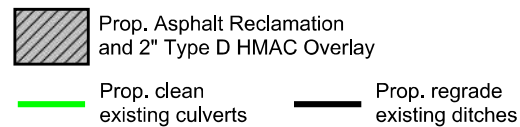
* Due to increases of flow, mitigation will be required at Brushy Bayou. HDR will need to conduct a hydraulic analysis to determine the amount of mitigation for the proposed improvements

Warren Street Asphalt Rehabilitation Project



Prop. Roadway and Sidewalk Improvements

Prop. Storm Sewer Improvements



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

Roadway:		Warren Street			
Length of Proposed Reconstruction/Rehabilitation		1825 L.F.			
Width of Proposed Roadway		30 L.F.			
Pavement Rating:		4			
Type of Reconstruction		From W. Wilkins Street to 75 feet west of TX-274 Loop (1825 LF): Asphalt rehabilitation of an existing asphalt roadway, drainage improvements, and utility improvements			
Warren Street					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 30,000.00	\$ 30,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 20,000.00	\$ 20,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 10,000.00	\$ 10,000.00
				Subtotal General Items	\$ 60,000.00
Roadway Items					
4	Removal of Existing Asphalt Pavement and Curb, complete in place, the sum of:	S.Y.	7,250	\$ 25.00	\$ 181,250.00
5	Recycled Cement Stabilized Base Course, 8" minimum depth, including the removal of any excess material and Microcracking of stabilized base, complete in place, the sum of:	S.Y.	8,000	\$ 15.00	\$ 120,000.00
6	Cement for Base Course (8% by weight), complete in place, the sum of:	TON	225	\$ 325.00	\$ 73,125.00
7	Prime Coat, complete in place, the sum of:	GAL.	2,850	\$ 5.00	\$ 14,250.00
8	2" Type D HMAc overlay, including tack coat, complete in place, the sum of:	S.Y.	7,250	\$ 40.00	\$ 290,000.00
				Subtotal Roadway Items:	\$ 678,625.00
Storm Sewer Items					
9	Clean existing culverts, complete in place, the sum of:	L.F.	470	\$ 40.00	\$ 18,800.00
				Subtotal Storm Sewer Items:	\$ 18,800.00
				Subtotal Base Items:	\$ 757,425.00
				30% Contingency:	\$ 227,227.50
				Total Preliminary Cost:	\$ 984,652.50

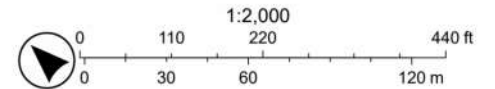
Warren Street Widening Project



Prop. Roadway and Sidewalk Improvements

Prop. Storm Sewer Improvements

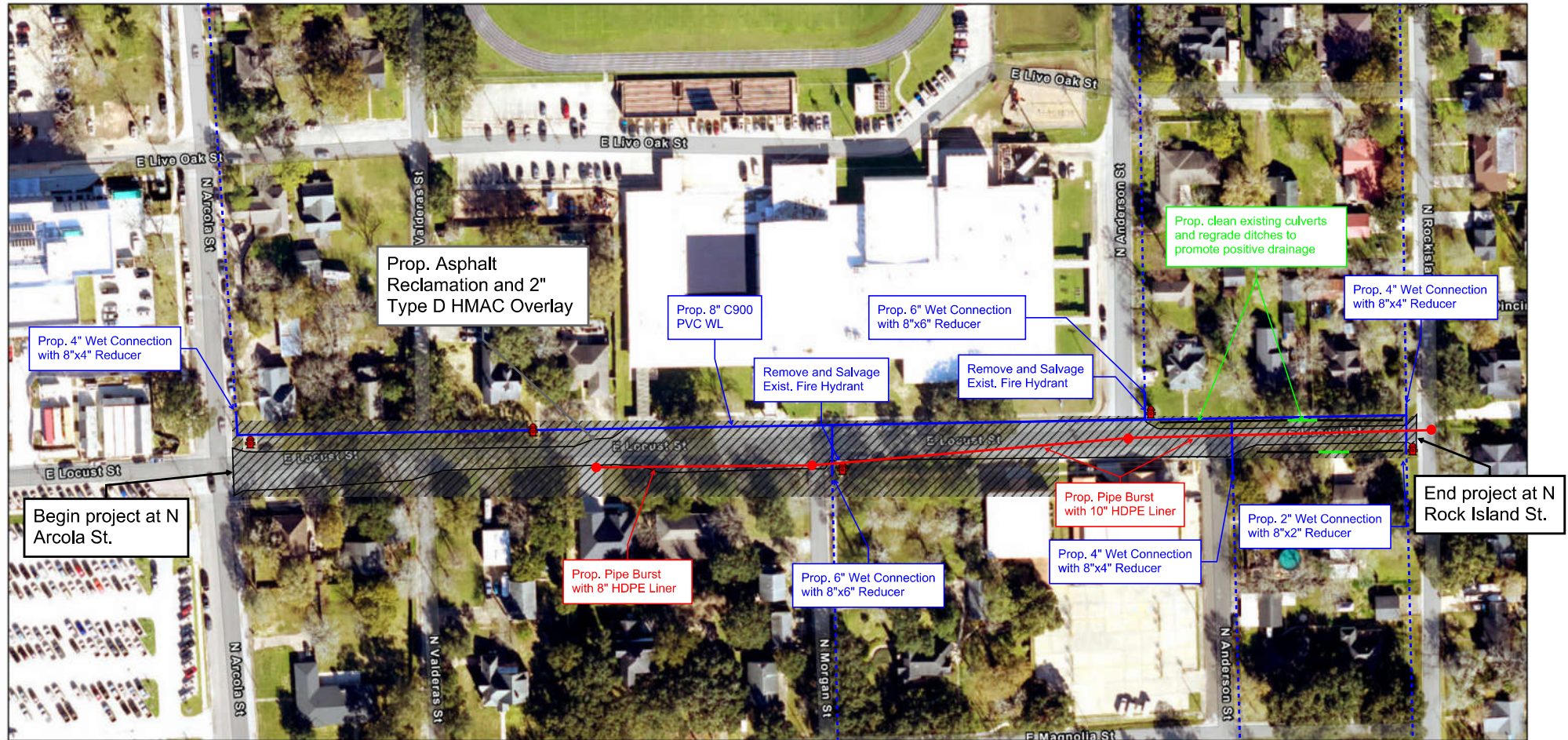
Prop. 7" Reinforced Concrete Pavement



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

Roadway:		Warren Street			
Length of Proposed Reconstruction/Rehabilitation		1890 L.F.			
Width of Proposed Roadway		62 L.F.			
Pavement Rating:		4			
Type of Reconstruction		From W. Wilkins Street to 75 feet west of TX-274 Loop (1400 LF): Replacement of an existing asphalt roadway with a boulevard section concrete curb and gutter roadway, drainage improvements, and utility improvements			
Warren Street					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 110,000.00	\$ 110,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 200,000.00	\$ 200,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 75,000.00	\$ 75,000.00
4	Cut for lowering roadway, complete in place, the sum of:	C.Y.	12,500	\$ 25.00	\$ 312,500.00
Subtotal General Items				\$	697,500.00
Roadway Items					
4	Removal of Existing Asphalt Pavement, complete in place, the sum of:	S.Y.	7,250	\$ 25.00	\$ 181,250.00
5	7" Thick Reinforced Concrete Pavement, complete in place, the sum of:	S.Y.	11,500	\$ 85.00	\$ 977,500.00
6	8" Thick Lime Stabilized Subgrade, complete in place, the sum of:	S.Y.	13,500	\$ 15.00	\$ 202,500.00
7	Lime for Lime Stabilized Subgrade, complete in place, the sum of:	TON	350	\$ 400.00	\$ 140,000.00
8	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	7,600	\$ 10.00	\$ 76,000.00
9	Remove and Replace 6" Thick Concrete Driveway, complete in place, the sum of:	S.Y.	500	\$ 125.00	\$ 62,500.00
10	Asphalt transition to connect Warren Street to existing asphalt pavement header near TX 274 and to connect proposed Warren Street to existing asphalt pavement on Warren Street, consisting of 2" thick Type D Asphalt Overlay, 6" thick Black Base, and 8" thick Cement Stabilized Sand Subgrade, complete in place, the sum of:	S.Y.	200	\$ 200.00	\$ 40,000.00
11	Temporary driveways, complete in place, the sum of:	EA.	7	\$ 1,500.00	\$ 10,500.00
Subtotal Roadway Items:				\$	1,690,250.00
Storm Sewer Items					
12	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	500	\$ 150.00	\$ 75,000.00
13	Furnish and Install 30" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	550	\$ 190.00	\$ 104,500.00
14	Furnish and Install 54" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	1,300	\$ 425.00	\$ 552,500.00
15	Furnish and Install 4'x4' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	3	\$ 5,000.00	\$ 15,000.00
16	Furnish and Install 7'x7' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	5	\$ 11,000.00	\$ 55,000.00
17	Furnish and Install 8'x8' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	1	\$ 17,500.00	\$ 17,500.00
18	Furnish and Install Storm Sewer Inlet, complete in place, the sum of:	EA.	11	\$ 6,000.00	\$ 66,000.00
19	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	1,800	\$ 5.00	\$ 9,000.00
20	Remove existing outfall, complete in place, the sum of:	S.F.	50	\$ 10.00	\$ 500.00
21	Outfall structure, complete in place, the sum of:	EA.	1	\$ 30,000.00	\$ 30,000.00
Subtotal Storm Sewer Items:				\$	925,000.00
Subtotal Base Items:				\$	3,312,750.00
30% Contingency:				\$	993,825.00
Total Preliminary Cost:				\$	4,306,575.00

East Locust Street Asphalt Rehabilitation Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

Prop. Storm Sewer Improvements



Prop. Asphalt Reclamation and 2" Type D HMAC Overlay



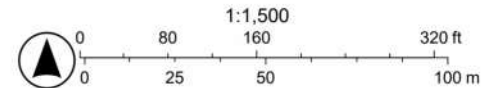
Prop. Manhole Rehabilitation and Inflow Protector



Prop. Fire Hydrant

Prop. clean existing culverts

Prop. regrade existing ditches



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

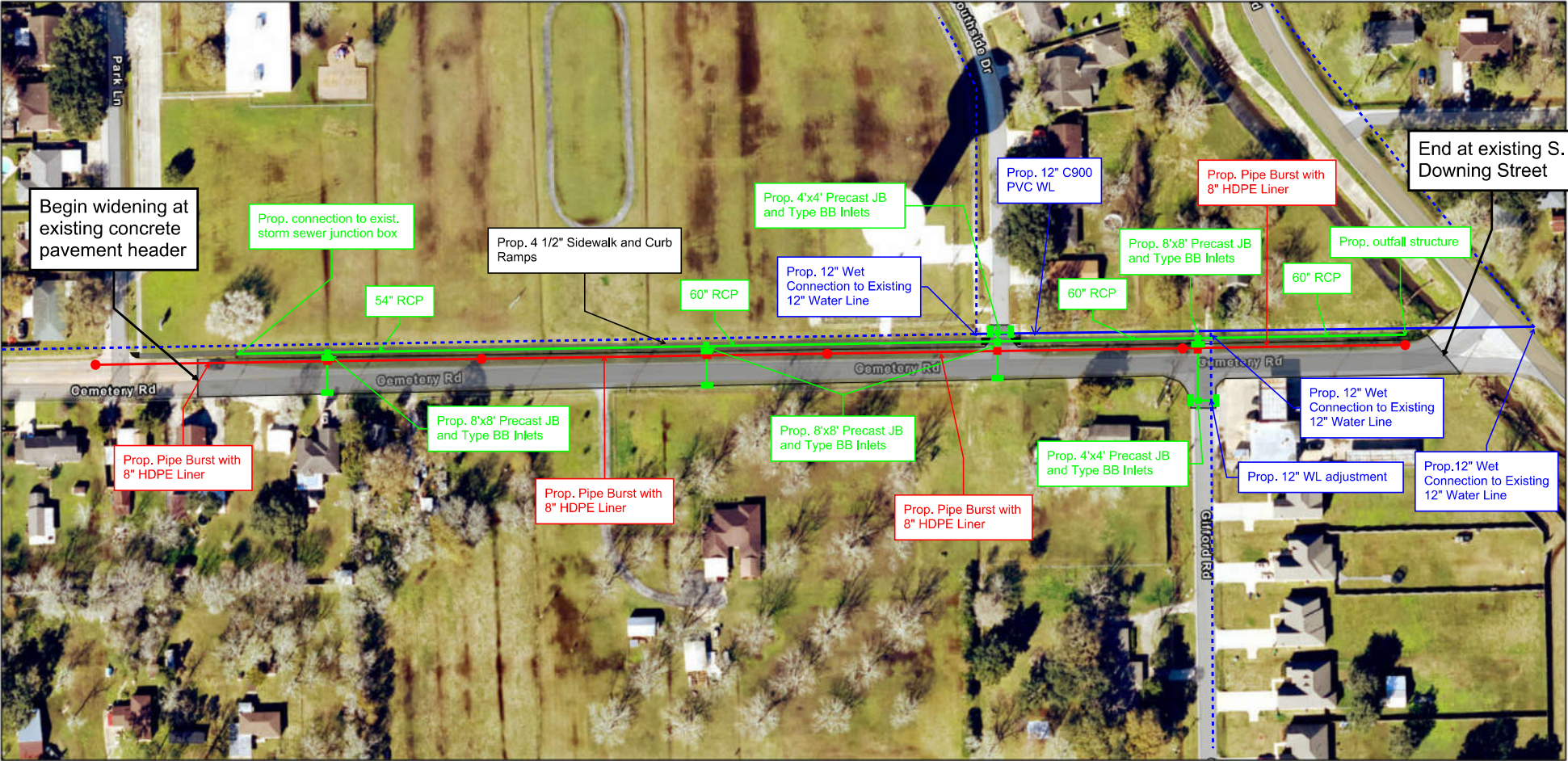
LIMITED DRAINAGE IMPROVEMENTS CAN BE ON E. LOCUST STREET PERFORMED PRIOR TO N. ARCOLA STREET IMPROVEMENTS

Roadway:		East Locust Street			
Length of Proposed Reconstruction/Rehabilitation		1400 L.F.			
Width of Proposed Roadway		Match. Exist.			
Pavement Rating:		6			
Type of Reconstruction		From N. Arcola Street to N. Rock Island Street (1400 LF): Asphalt rehabilitation of an existing asphalt roadway, drainage improvements, and utility improvements			
East Locust Steet					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 30,000.00	\$ 30,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 30,000.00	\$ 30,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 10,000.00	\$ 10,000.00
Subtotal General Items				\$	70,000.00
Roadway Items					
4	Recycled Cement Stabilized Base Course, 8" minimum depth, including the removal of any excess material and Microcracking of stabilized base, complete in place, the sum of:	S.Y.	6,900	\$15.00	\$103,500.00
5	Cement for Base Course (8% by weight), complete in place, the sum of:	TON	200	\$325.00	\$65,000.00
6	Prime Coat, complete in place, the sum of:	GAL.	2,400	\$5.00	\$12,000.00
7	2" Type D HMAC overlay, including tack coat, complete in place, the sum of:	S.Y.	6,200	\$40.00	\$ 248,000.00
8	6" Thick Reinforced Monolithic Concrete Curb, complete in place, the sum of:	L.F.	1,400	\$ 40.00	\$ 56,000.00
Subtotal Roadway Items:				\$	484,500.00
Storm Sewer Items					
9	Regrade swale to promote positive drainage, complete in place, the sum of:	L.F.	1,200	\$ 20.00	\$ 24,000.00
10	Clean existing culverts, complete in place, the sum of:	L.F.	500	\$ 40.00	\$ 20,000.00
Subtotal Storm Sewer Items:				\$	44,000.00
Water Line Items					
11	8" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	1,900	\$ 125.00	\$ 237,500.00
12	4" Diameter Wet Connection, complete in place, the sum of:	EA.	2	\$ 1,500.00	\$ 3,000.00
13	6" Diameter Wet Connection, complete in place, the sum of:	EA.	3	\$ 2,500.00	\$ 7,500.00
14	8" Gate Valve & Box, AWWA C509, mechanical joint, resilient wedge, NRS open counter clockwise with valve boxes, complete in place, the sum of:	EA.	9	\$ 4,200.00	\$ 37,800.00
15	4" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	2	\$ 650.00	\$ 1,300.00
16	6" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	3	\$ 800.00	\$ 2,400.00
17	Remove and Salvage Fire Hydrant Assembly, complete in place, the sum of:	EA.	2	\$ 1,000.00	\$ 2,000.00
18	Fire Hydrant Assembly, complete in place, the sum of:	EA.	5	\$ 8,000.00	\$ 40,000.00
19	Service Line Reconnection, complete in place, the sum of:	EA.	15	\$ 3,000.00	\$ 45,000.00
20	Trench Protection for Water Line, complete in place, the sum of:	L.F.	1,900	\$ 5.00	\$ 9,500.00
Subtotal Water Line Items:				\$	386,000.00
Sanitary Sewer Items					
21	Pipe Burst existing 6" Sanitary Sewer with 8" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	650	\$ 65.00	\$ 42,250.00
	Pipe Burst existing 10" Sanitary Sewer with 10" Sanitary Sewer with 12.75-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	400	\$ 70.00	\$ 28,000.00
22	4-inch and 6-inch service connection (by excavation), all depth, with or without stack, including new cleanout at the right-of-way,complete in place, the sum of:	EA.	15	\$ 2,500.00	\$ 37,500.00

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
23	Rehabilitate existing manhole by 1-inch cementitious liner, complete in place, the sum of:	V.F.	20	\$ 450.00	\$ 9,000.00
24	Remove and replace existing sanitary sewer manhole ring and cover with 32" ring and cover and adjust existing sanitary sewer manholes to grade complete in place, the sum of:	EA.	4	\$ 1,500.00	\$ 6,000.00
25	Furnish and install sanitary sewer manhole inflow protector, all sizes, complete in place, the sum of:	EA.	4	\$ 300.00	\$ 1,200.00
26	Sanitary sewer trench safety, all depths, complete in place, the sum of:	L.F.	650	\$ 5.00	\$ 3,250.00
Subtotal Sanitary Sewer Items:					\$ 127,200.00
Subtotal Base Items:					\$ 1,111,700.00
30% Contingency:					\$ 333,510.00
Total Preliminary Cost:					\$ 1,445,210.00

Roadway:		Various Roads			
Length of Proposed Reconstruction/Rehabilitation		Varies			
Width of Proposed Roadway		Match. Exist			
Type of Reconstruction		Various concrete panel replacements, concrete point repairs, and storm sewer point repairs where needed			
Various Point Repairs					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 45,000.00	\$ 45,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 20,000.00	\$ 20,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 10,000.00	\$ 10,000.00
Subtotal General Items					\$ 75,000.00
Roadway and Drainage Items					
4	Full Depth Concrete Point Repair, including proper removal and disposal of concrete pavement and subgrade, full depth saw cut, subgrade, 12" Thick cement stabilized sand, proof rolling, 7" Thick Reinforced Concrete Pavement, including reinforcement, doweling into existing pavement, undercut/header, joints, and grading, complete in place, the sum of:	S.Y.	4750	\$ 200.00	\$ 950,000.00
5	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	6000	\$ 10.00	\$ 60,000.00
6	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	L.F.	280	\$ 150.00	\$ 42,000.00
7	Furnish and Install 4'x4' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	5	\$ 5,000.00	\$ 25,000.00
8	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	280	\$ 5.00	\$ 1,400.00
Subtotal Roadway and Drainage Items:					\$ 1,078,400.00
Subtotal Base Items:					\$ 1,153,400.00
30% Contingency:					\$ 346,020.00
Total Preliminary Cost:					\$ 1,499,420.00

Cemetery Road Widening Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

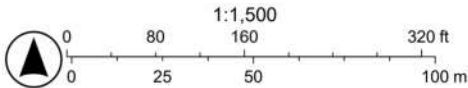
Prop. Water Improvements

Prop. Storm Sewer Improvements

Prop. 7" Reinforced Concrete Pavement

Prop. Manhole Rehabilitation and Inflow Protector

Prop. Sump Manhole

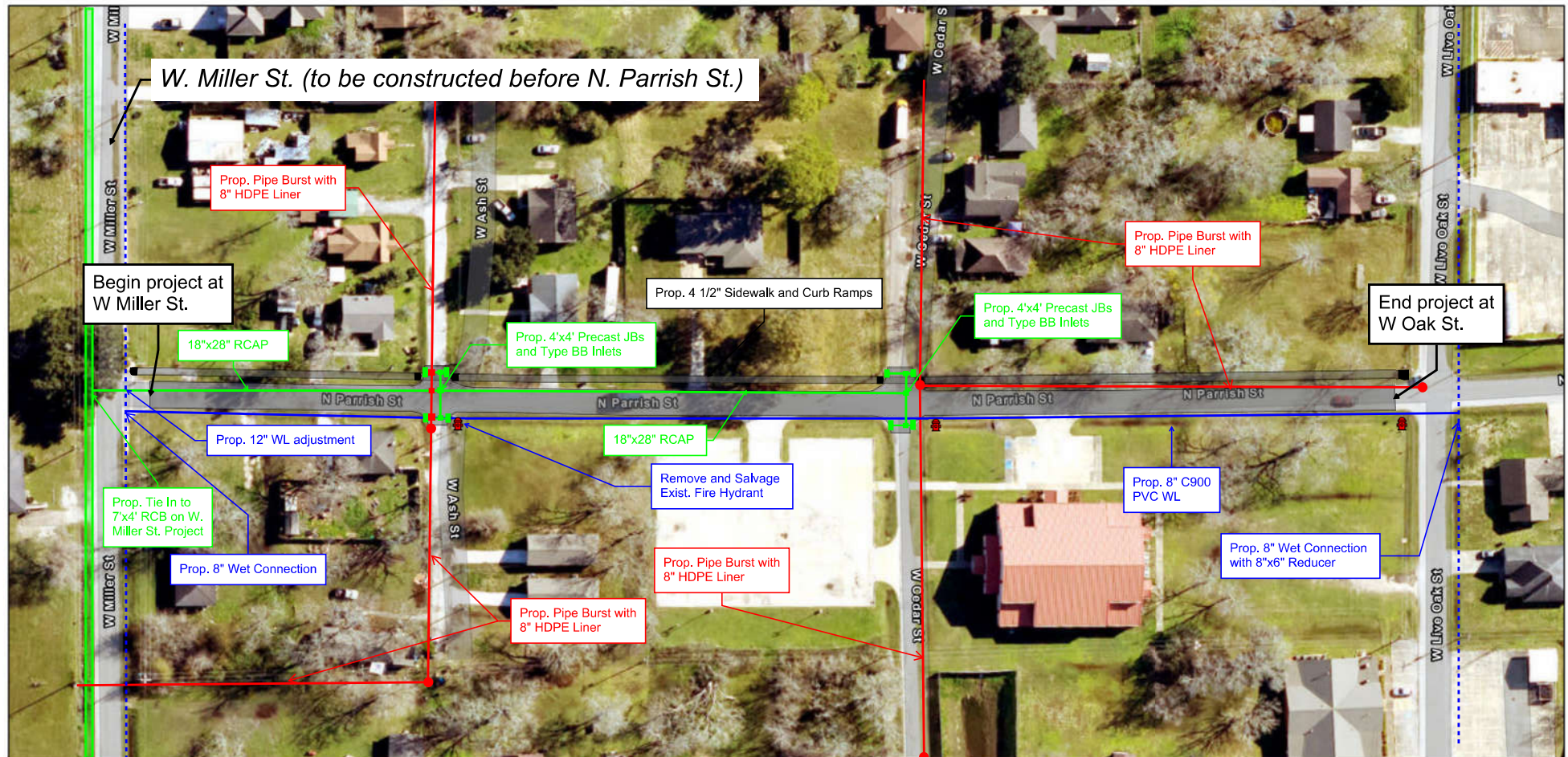


Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

Roadway:		Cemetery Road			
Length of Proposed Reconstruction/Rehabilitation		1450 L.F.			
Width of Proposed Roadway		40 L.F.			
Pavement Rating:		6			
Type of Reconstruction		From 90 feet east of Parklane Street to 75 feet west of S. Downing Street (1450 LF): Lowering an existing asphalt roadway, expanding cross section to match 40' wide concrete curb and gutter section, converting to a concrete curb and gutter roadway, concrete sidewalks, drainage improvements, and utility			
Cemetery Road					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 75,000.00	\$ 75,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 150,000.00	\$ 150,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 50,000.00	\$ 50,000.00
4	Cut for lowering roadway, complete in place, the sum of:	C.Y.	5,400	\$ 25.00	\$ 135,000.00
Subtotal General Items					\$ 410,000.00
Roadway Items					
4	Removal of Existing Asphalt Pavement, complete in place, the sum of:	S.Y.	4,000	\$ 25.00	\$ 100,000.00
5	7" Thick Reinforced Concrete Pavement, complete in place, the sum of:	S.Y.	6,000	\$ 85.00	\$ 510,000.00
6	8" Thick Lime Stabilized Subgrade, complete in place, the sum of:	S.Y.	7,000	\$ 15.00	\$ 105,000.00
7	Lime for Lime Stabilized Subgrade, complete in place, the sum of:	TON	200	\$ 400.00	\$ 80,000.00
8	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	3,000	\$ 10.00	\$ 30,000.00
9	4-1/2" Thick Concrete Sidewalk, complete in place, the sum of:	S.F.	7,000	\$ 10.00	\$ 70,000.00
10	Concrete Curb Ramps, complete in place, the sum of:	EA.	4	\$ 3,500.00	\$ 14,000.00
11	Remove and Replace 6" Thick Concrete Driveway, complete in place, the sum of:	S.Y.	700	\$ 125.00	\$ 87,500.00
12	Asphalt transition to connect Cemetery Road to Gifford Road, consisting of 2" thick Type D Asphalt Overlay, 6" thick Black Base, and 8" thick Cement Stabilized Sand Subgrade, complete in place, the sum of:	S.Y.	100	\$ 200.00	\$ 20,000.00
13	Concrete paving header, complete in place, the sum of:	L.F.	140	\$ 30.00	\$ 4,200.00
14	Temporary driveways, complete in place, the sum of:	EA.	10	\$ 1,500.00	\$ 15,000.00
Subtotal Roadway Items:					\$ 1,035,700.00
Storm Sewer Items					
15	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	300	\$ 150.00	\$ 45,000.00
16	Furnish and Install 54" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	550	\$ 425.00	\$ 233,750.00
17	Furnish and Install 60" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	800	\$ 475.00	\$ 380,000.00
18	Furnish and Install 4'x4' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	2	\$ 5,000.00	\$ 10,000.00
19	Furnish and Install 8'x8' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	4	\$ 17,500.00	\$ 70,000.00
20	Outfall structure, complete in place, the sum of:	L.S.	1	\$ 30,000.00	\$ 30,000.00
21	Furnish and Install Storm Sewer Inlet, complete in place, the sum of:	EA.	10	\$ 6,000.00	\$ 60,000.00
22	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	1,500	\$ 5.00	\$ 7,500.00
Subtotal Storm Sewer Items:					\$ 836,250.00
Water Line Items					
23	12" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	450	\$ 225.00	\$ 101,250.00
24	12" Diameter Wet Connection, complete in place, the sum of:	EA.	2	\$ 3,000.00	\$ 6,000.00
25	8" Diameter Wet Connection, complete in place, the sum of:	EA.	1	\$ 2,700.00	\$ 2,700.00
26	12" Gate Valve & Box, AWWA C509, mechanical joint, resilient wedge, NRS open counter clockwise with valve boxes, complete in place, the sum of:	EA.	5	\$ 6,000.00	\$ 30,000.00
27	8" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	1	\$ 1,000.00	\$ 1,000.00
28	12" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	2	\$ 1,500.00	\$ 3,000.00
29	Trench Protection for Water Line, complete in place, the sum of:	L.F.	450	\$ 5.00	\$ 2,250.00
Subtotal Water Line Items:					\$ 146,200.00

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
Sanitary Sewer Items					
23	Pipe Burst existing 8" Sanitary Sewer with 8.625" O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	1,500	\$ 65.00	\$ 97,500.00
24	Furnish and Install 4'x4' Precast Utility Conflict Box with Sump, including steel casing, complete in place, the sum of:	EA.	4	\$ 6,200.00	\$ 24,800.00
25	4-inch and 6-inch service connection (by excavation), all depth, with or without stack, including new cleanout at the right-of-way, complete in place, the sum of:	EA.	10	\$ 2,500.00	\$ 25,000.00
26	Rehabilitate existing manhole by 1-inch cementitious liner, complete in place, the sum of:	V.F.	30	\$ 450.00	\$ 13,500.00
27	Remove and replace existing sanitary sewer manhole ring and cover with 32" ring and cover and adjust existing sanitary sewer manholes to grade complete in place, the sum of:	EA.	6	\$ 1,500.00	\$ 9,000.00
28	Furnish and install sanitary sewer manhole inflow protector, all sizes, complete in place, the sum of:	EA.	6	\$ 300.00	\$ 1,800.00
29	Sanitary sewer trench safety, all depths, complete in place, the sum of:	L.F.	1,500	\$ 5.00	\$ 7,500.00
Subtotal Sanitary Sewer Items:					\$ 179,100.00
Subtotal Base Items:					\$ 2,607,250.00
30% Contingency:					\$ 782,175.00
Total Preliminary Cost:					\$ 3,389,425.00

North Parrish Street (West Miller to East Live Oak) Paving, Drainage, & Utility Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

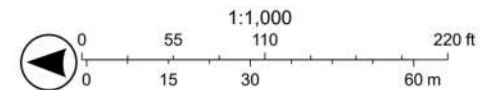
Prop. Storm Sewer Improvements

Prop. 7" Reinforced Concrete Pavement

Prop. Manhole Rehabilitation and Inflow Protector

Prop. Fire Hydrant

Prop. Sump Manhole



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

LIMITED DRAINAGE IMPROVEMENTS CAN BE ON N. PARRISH STREET PERFORMED PRIOR TO W. MILLER STREET IMPROVEMENTS

Roadway:		North Parrish Street			
Length of Proposed Reconstruction/Rehabilitation		975 L.F.			
Width of Proposed Roadway		28 L.F.			
Pavement Rating:		6			
Type of Reconstruction		From W. Live Oak Street to W. Miller Street (975 LF): Lowering existing asphalt roadway with roadside ditches, converting to a concrete curb and gutter roadway, concrete sidewalks, drainage improvements, and utility improvements			
North Parrish Street					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 75,000.00	\$ 75,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 150,000.00	\$ 150,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 50,000.00	\$ 50,000.00
4	Cut for lowering roadway, complete in place, the sum of:	C.Y.	2,100	\$ 25.00	\$ 52,500.00
				Subtotal General Items	\$ 327,500.00
Roadway Items					
4	Removal of Existing Asphalt Pavement, complete in place, the sum of:	S.Y.	2,200	\$ 25.00	\$ 55,000.00
5	7" Thick Reinforced Concrete Pavement, complete in place, the sum of:	S.Y.	2,200	\$ 85.00	\$ 187,000.00
6	8" Thick Lime Stabilized Subgrade, complete in place, the sum of:	S.Y.	2,750	\$ 15.00	\$ 41,250.00
7	Lime for Lime Stabilized Subgrade, complete in place, the sum of:	TON	70	\$ 400.00	\$ 28,000.00
8	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	2,000	\$ 10.00	\$ 20,000.00
9	4-1/2" Thick Concrete Sidewalk, complete in place, the sum of:	S.F.	4,800	\$ 10.00	\$ 48,000.00
10	Concrete Curb Ramps, complete in place, the sum of:	EA.	6	\$ 3,500.00	\$ 21,000.00
11	Remove and Replace 6" Thick Concrete Driveway, complete in place, the sum of:	S.Y.	325	\$ 125.00	\$ 40,625.00
12	Asphalt transition, consisting of 2" thick Type D Asphalt Overlay, 6" thick Black Base, and 8" thick Cement Stabilized Sand Subgrade, complete in place, the sum of:	L.F.	120	\$ 200.00	\$ 24,000.00
13	Concrete paving header, complete in place, the sum of:	L.F.	30	\$ 30.00	\$ 900.00
14	Temporary driveways, complete in place, the sum of:	EA.	8	\$ 1,500.00	\$ 12,000.00
				Subtotal Roadway Items:	\$ 477,775.00
Storm Sewer Items					
15	Remove existing storm sewer pipe, all types, complete in place, the sum of:	L.F.	500	\$ 30.00	\$ 15,000.00
16	Furnish and Install 18"x28" Diameter Reinforced Concrete Arch Pipe, ASTM C506, Class A-III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	900	\$ 275.00	\$ 247,500.00
17	Furnish and Install 4'x4' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	4	\$ 5,000.00	\$ 20,000.00
18	Furnish and Install 5'x5' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	2	\$ 6,500.00	\$ 13,000.00
19	Furnish and Install Storm Sewer Inlet, complete in place, the sum of:	EA.	8	\$ 6,000.00	\$ 48,000.00
20	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	1,600	\$ 5.00	\$ 8,000.00
				Subtotal Storm Sewer Items:	\$ 336,500.00
Water Line Items					
21	8" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	1,000	\$ 225.00	\$ 225,000.00
22	8" Diameter Wet Connection, complete in place, the sum of:	EA.	2	\$ 2,700.00	\$ 5,400.00
23	8" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	2	\$ 1,000.00	\$ 2,000.00
24	8" Gate Valve & Box, AWWA C509, mechanical joint, resilient wedge, NRS open counter clockwise with valve boxes, complete in place, the sum of:	EA.	4	\$ 4,200.00	\$ 16,800.00
25	Remove and Salvage Fire Hydrant Assembly, complete in place, the sum of:	EA.	2	\$ 1,000.00	\$ 2,000.00
26	Fire Hydrant Assembly, complete in place, the sum of:	EA.	3	\$ 8,000.00	\$ 24,000.00
27	Trench Protection for Water Line, complete in place, the sum of:	L.F.	1,000	\$ 5.00	\$ 5,000.00
				Subtotal Water Line Items:	\$ 280,200.00

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
Sanitary Sewer Items					
28	Furnish and install sanitary sewer manhole inflow protector, all sizes, complete in place, the sum of:	EA.	5	\$ 300.00	\$ 1,500.00
29	Pipe Burst existing 6" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	800	\$ 65.00	\$ 52,000.00
30	Pipe Burst existing 8" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	1,100	\$ 65.00	\$ 71,500.00
31	Furnish and Install 5'x5' Precast Utility Conflict Box with Sump, including steel casing, complete in place, the sum of:	EA.	3	\$ 8,000.00	\$ 24,000.00
32	Rehabilitate existing manhole by 1-inch cementitious liner, complete in place, the sum of:	V.F.	25	\$ 450.00	\$ 11,250.00
33	Remove and replace existing sanitary sewer manhole ring and cover with 32" ring and cover and adjust existing sanitary sewer manholes to grade complete in place, the sum of:	EA.	5	\$ 1,500.00	\$ 7,500.00
34	Sanitary sewer trench safety, all depths, complete in place, the sum of:	L.F.	1,900	\$ 5.00	\$ 9,500.00
Subtotal Sanitary Sewer Items:					\$ 177,250.00
Subtotal Base Items:					\$ 1,599,225.00
30% Contingency:					\$ 479,767.50
Total Preliminary Cost:					\$ 2,078,992.50

North Tinsley Street Paving, Drainage, & Utility Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

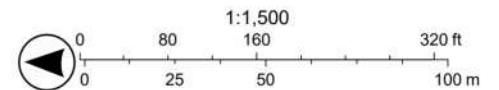
Prop. Water Improvements

Prop. Storm Sewer Improvements

Prop. 7" Reinforced Concrete Pavement

Prop. Manhole Rehabilitation and Inflow Protector

Prop. Fire Hydrant



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

North Tinsley Street Paving, Drainage, & Utility Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

Prop. Storm Sewer Improvements

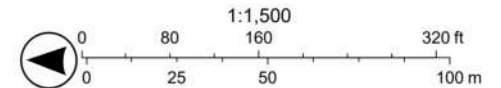
Prop. 7" Reinforced Concrete Pavement

Prop. Manhole Rehabilitation and Inflow Protector

Prop. Fire Hydrant

Prop. Type A Inlet

Prop. Sump Manhole

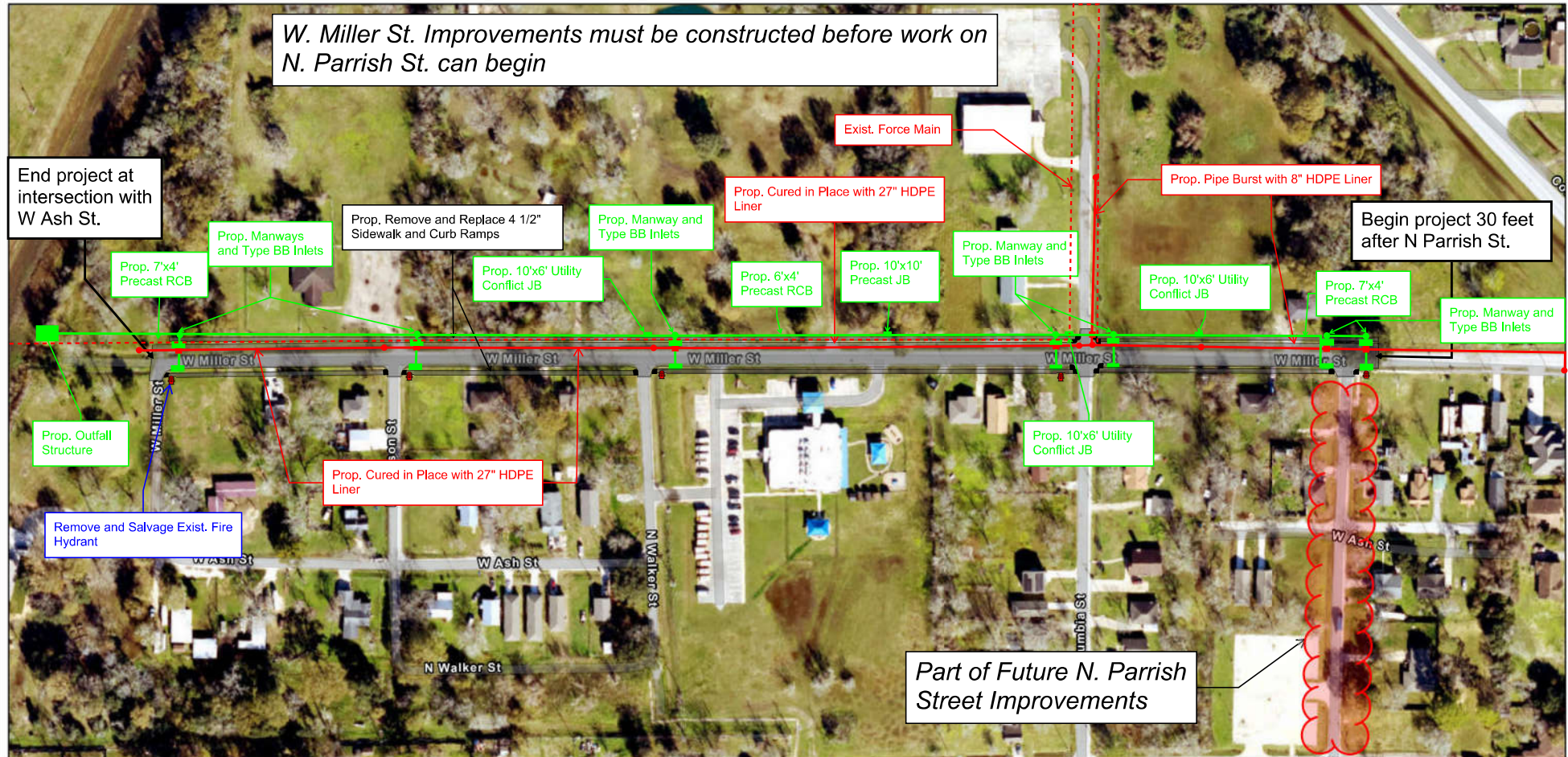


Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

Roadway:		North Tinsley Street			
Length of Proposed Reconstruction/Rehabilitation		3120 L.F.			
Width of Proposed Roadway		Match Exist.			
Pavement Rating:		5			
Type of Reconstruction		From Cannan Drive to W. Wilkins Street (3300 LF): Reconstruction of an existing asphalt curb and gutter roadway with a concrete curb and gutter roadway, sidewalk improvements, drainage improvements, and utility improvements			
Tinsley Street					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 75,000.00	\$ 75,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 150,000.00	\$ 150,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 50,000.00	\$ 50,000.00
4	Cut for lowering roadway, complete in place, the sum of:	C.Y.	6,200	\$ 25.00	\$ 155,000.00
				Subtotal General Items	\$ 430,000.00
Roadway Items					
5	Removal of Existing Asphalt Pavement, complete in place, the sum of:	S.Y.	9,800	\$ 25.00	\$ 245,000.00
6	7" Thick Reinforced Concrete Pavement, complete in place, the sum of:	S.Y.	9,800	\$ 85.00	\$ 833,000.00
7	8" Thick Lime Stabilized Subgrade, complete in place, the sum of:	S.Y.	11,500	\$ 15.00	\$ 172,500.00
8	Lime for Lime Stabilized Subgrade, complete in place, the sum of:	TON	300	\$ 400.00	\$ 120,000.00
9	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	6,300	\$ 10.00	\$ 63,000.00
10	Remove and Replace 4-1/2" Thick Concrete Sidewalk, complete in place, the sum of:	S.F.	31,570	\$ 10.00	\$ 315,700.00
11	Concrete Curb Ramps, complete in place, the sum of:	EA.	28	\$ 3,500.00	\$ 98,000.00
12	Remove and Replace 6" Thick Concrete Driveway, complete in place, the sum of:	S.Y.	1,325	\$ 125.00	\$ 165,625.00
13	Asphalt transition to connect existng Tinsley Street and side streets, consisting of 2" thick Type D Asphalt Overlay, 6" thick Black Base, and 8" thick Cement Stabilized Sand Subgrade, complete in place, the sum of:	S.Y.	520	\$ 200.00	\$ 104,000.00
14	Concrete paving header, complete in place, the sum of:	L.F.	325	\$ 30.00	\$ 9,750.00
15	Temporary driveways, complete in place, the sum of:	EA.	53	\$ 1,500.00	\$ 79,500.00
				Subtotal Roadway Items:	\$ 2,206,075.00
Storm Sewer Items					
16	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	1,650	\$ 150.00	\$ 247,500.00
17	Furnish and Install 30" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	900	\$ 190.00	\$ 171,000.00
18	Furnish and Install 4'x4' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	6	\$ 5,000.00	\$ 30,000.00
19	Furnish and Install 5'x5' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	6	\$ 6,500.00	\$ 39,000.00
20	Remove existing inlet, all types, complete in place, the sum of:	EA.	13	\$ 600.00	\$ 7,800.00
21	Furnish and Install Storm Sewer Inlet, complete in place, the sum of:	EA.	27	\$ 6,000.00	\$ 162,000.00
22	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	1,650	\$ 5.00	\$ 8,250.00
				Subtotal Storm Sewer Items:	\$ 665,550.00
Water Line Items					
23	8" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	3,100	\$ 125.00	\$ 387,500.00
24	2" Diameter Wet Connection, complete in place, the sum of:	EA.	3	\$ 600.00	\$ 1,800.00
25	8" Diameter Wet Connection, complete in place, the sum of:	EA.	7	\$ 2,700.00	\$ 18,900.00
26	10" Diameter Wet Connection, complete in place, the sum of:	EA.	1	\$ 2,750.00	\$ 2,750.00
27	2" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	3	\$ 500.00	\$ 1,500.00
28	8" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	7	\$ 1,000.00	\$ 7,000.00

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
29	10" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	1	\$ 1,250.00	\$ 1,250.00
30	8" Gate Valve & Box, AWWA C509, mechanical joint, resilient wedge, NRS open counter clockwise with valve boxes, complete in place, the sum of:	EA.	20	\$ 4,200.00	\$ 84,000.00
31	Remove and Salvage Fire Hydrant Assembly, complete in place, the sum of:	EA.	7	\$ 1,000.00	\$ 7,000.00
32	Fire Hydrant Assembly, complete in place, the sum of:	EA.	8	\$ 8,000.00	\$ 64,000.00
33	Trench Protection for Water Line, complete in place, the sum of:	L.F.	3,100	\$ 5.00	\$ 15,500.00
Subtotal Water Line Items:					\$ 591,200.00
Sanitary Sewer Items					
34	Pipe Burst existing 6" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	1,200	\$ 65.00	\$ 78,000.00
35	Pipe Burst existing 8" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	1,400	\$ 65.00	\$ 91,000.00
36	Furnish and Install 5'x5' Precast Utility Conflict Box with Sump, including steel casing, complete in place, the sum of:	EA.	1	\$ 8,000.00	\$ 8,000.00
37	Rehabilitate existing manhole by 1-inch cementitious liner, complete in place, the sum of:	V.F.	55	\$ 450.00	\$ 24,750.00
38	Remove and replace existing sanitary sewer manhole ring and cover with 32" ring and cover and adjust existing sanitary sewer manholes to grade complete in place, the sum of:	EA.	11	\$ 1,500.00	\$ 16,500.00
39	Furnish and install sanitary sewer manhole inflow protector, all sizes, complete in place, the sum of:	EA.	11	\$ 300.00	\$ 3,300.00
40	Sanitary sewer trench safety, all depths, complete in place, the sum of:	L.F.	2,600	\$ 5.00	\$ 13,000.00
Subtotal Sanitary Sewer Items:					\$ 234,550.00
Subtotal Base Items:					\$ 4,127,375.00
30% Contingency:					\$ 1,238,212.50
Total Preliminary Cost:					\$ 5,365,587.50

West Miller Street Paving, Drainage, & Sanitary Sewer Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

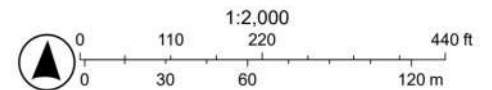
Prop. Storm Sewer Improvements

Prop. 7" Reinforced Concrete Pavement

Prop. Manhole Rehabilitation and Inflow Protector

Prop. Fire Hydrant

Prop. Sump Manhole



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

Roadway:		West Miller Street			
Length of Proposed Reconstruction/Rehabilitation		1825 L.F.			
Width of Proposed Roadway		36 L.F.			
Pavement Rating:		6			
Type of Reconstruction		Street (1825 LF): Lowering an existing asphalt roadway, expanding cross section to 36' wide concrete curb and gutter section, concrete sidewalks, drainage improvements, and utility improvements			
West Miller Street					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 125,000.00	\$ 125,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 100,000.00	\$ 100,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 7,500.00	\$ 7,500.00
4	Cut for lowering roadway, complete in place, the sum of:	C.Y.	5,000	\$ 25.00	\$ 125,000.00
Subtotal General Items					\$ 232,500.00
Roadway Items					
5	Removal of Existing Asphalt Pavement and Curb, complete in place, the sum of:	S.Y.	4,100	\$ 25.00	\$ 102,500.00
6	7" Thick Reinforced Concrete Pavement, complete in place, the sum of:	S.Y.	7,500	\$ 85.00	\$ 637,500.00
7	8" Thick Lime Stabilized Subgrade, complete in place, the sum of:	S.Y.	8,700	\$ 15.00	\$ 130,500.00
8	Lime for Lime Stabilized Subgrade, complete in place, the sum of:	TON	300	\$ 400.00	\$ 120,000.00
9	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	3,700	\$ 10.00	\$ 37,000.00
10	4-1/2" Thick Concrete Sidewalk, complete in place, the sum of:	S.F.	17,200	\$ 10.00	\$ 172,000.00
11	Concrete Curb Ramps, complete in place, the sum of:	EA.	15	\$ 3,500.00	\$ 52,500.00
12	Remove and Replace 6" Thick Concrete Driveway, complete in place, the sum of:	S.Y.	900	\$ 125.00	\$ 112,500.00
13	Asphalt transition to connect existing W. Miller St. and side streets, consisting of 2" thick Type D Asphalt Overlay, 6" thick Black Base, and 8" thick Cement Stabilized Sand Subgrade, complete in place, the sum of:	S.Y.	475	\$ 300.00	\$ 142,500.00
14	Temporary driveways, complete in place, the sum of:	EA.	20	\$ 1,500.00	\$ 30,000.00
Subtotal Roadway Items:					\$ 1,537,000.00
Storm Sewer Items					
15	Remove existing storm sewer pipe, all types, complete in place, the sum of:	L.F.	650	\$ 30.00	\$ 19,500.00
16	Furnish and Install Storm Sewer Inlet, complete in place, the sum of:	E.A.	14	\$ 6,000.00	\$ 84,000.00
17	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	350	\$ 150.00	\$ 52,500.00
18	Furnish and Install 7'x4' Precast Reinforced Concrete Box, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	1,200	\$ 800.00	\$ 960,000.00
19	Furnish and Install 6'x4' Precast Reinforced Concrete Box, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	1,100	\$ 700.00	\$ 770,000.00
20	Furnish and Install 10'x10' Precast Storm Sewer Junction Box, complete in place, the sum of:	E.A.	1	\$ 40,000.00	\$ 40,000.00
21	Furnish and Install 10'x6' Utility Conflict Storm Junction Box, complete in place, the sum of:	EA.	3	\$ 45,000.00	\$ 135,000.00
22	Furnish and Install Precast Manway, complete in place, the sum of:	EA.	7	\$ 800.00	\$ 5,600.00
23	Outfall structure, complete in place, the sum of:	EA.	1	\$ 30,000.00	\$ 30,000.00
24	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	3,000	\$ 5.00	\$ 15,000.00
Subtotal Storm Sewer Items:					\$ 2,111,600.00
Water Line Items					
25	Remove and Salvage Fire Hydrant Assembly, complete in place, the sum of:	EA.	4	\$ 1,000.00	\$ 4,000.00
26	Fire Hydrant Assembly, complete in place, the sum of:	EA.	5	\$ 8,000.00	\$ 40,000.00
27	Trench Protection for Water Line, complete in place, the sum of:	L.F.	100	\$ 5.00	\$ 500.00
Subtotal Water Line Items:					\$ 44,500.00
Sanitary Sewer Items					
28	Pipe Burst existing 6" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	1,300	\$ 65.00	\$ 84,500.00
29	Pipe Burst existing 8" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	300	\$ 65.00	\$ 19,500.00

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
30	Furnish and Install 27" Sanitary Sewer, cured in place with HDPE liner, complete in place, the sum of:	L.F.	1,500	\$ 475.00	\$ 712,500.00
31	Force Main Adjustment, complete in place, the sum of:	EA.	3	\$ 7,500.00	\$ 22,500.00
32	Furnish and Install 4'x4' Precast Utility Conflict Box with Sump, including steel casing, complete in place, the sum of:	EA.	7	\$ 6,200.00	\$ 43,400.00
33	Rehabilitate existing manhole by 1-inch cementitious liner, complete in place, the sum of:	V.F.	40	\$ 450.00	\$ 18,000.00
34	Remove and replace existing sanitary sewer manhole ring and cover with 32" ring and cover and adjust existing sanitary sewer manholes to grade complete in place, the sum of:	EA.	8	\$ 1,500.00	\$ 12,000.00
35	Furnish and install sanitary sewer manhole inflow protector, all sizes, complete in place, the sum of:	EA.	8	\$ 300.00	\$ 2,400.00
36	Sanitary sewer trench safety, all depths, complete in place, the sum of:	L.F.	3,100	\$ 5.00	\$ 15,500.00
Subtotal Sanitary Sewer Items:					\$ 930,300.00
Subtotal Base Items:					\$ 4,855,900.00
30% Contingency:					\$ 1,456,770.00
Total Preliminary Cost:					\$ 6,312,670.00

* Due to increases of flow, mitigation will be required at Brushy Bayou. HDR will need to conduct a hydraulic analysis to determine the amount of mitigation for the proposed improvements

Swift Street Paving, Drainage, & Utility Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

Prop. Storm Sewer Improvements



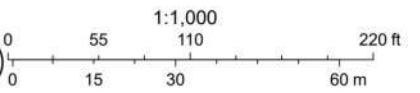
Prop. 7" Reinforced Concrete Pavement



Prop. Manhole Rehabilitation and Inflow Protector



Prop. Sump Manhole



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

Roadway:		Swift Street			
Length of Proposed Reconstruction/Rehabilitation		745 L.F.			
Width of Proposed Roadway		Match Exist.			
Pavement Rating:		3			
Type of Reconstruction		existing concete curb and gutter roadway, drainage improvements, and utility improvements			
Swift Street					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 40,000.00	\$ 40,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 15,000.00	\$ 15,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 50,000.00	\$ 50,000.00
Subtotal General Items					\$ 105,000.00
Roadway Items					
4	Removal of Existing Concrete Pavement and Curb, complete in place, the sum of:	S.Y.	1,850	\$ 25.00	\$ 46,250.00
5	7" Thick Reinforced Concrete Pavement, complete in place, the sum of:	S.Y.	1,850	\$ 85.00	\$ 157,250.00
6	8" Thick Lime Stabilized Subgrade, complete in place, the sum of:	S.Y.	2,200	\$ 15.00	\$ 33,000.00
7	Lime for Lime Stabilized Subgrade, complete in place, the sum of:	TON	60	\$ 400.00	\$ 24,000.00
8	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	1,375	\$ 10.00	\$ 13,750.00
9	Remove and Replace 4-1/2" Thick Concrete Sidewalk, complete in place, the sum of:	S.F.	5,250	\$ 10.00	\$ 52,500.00
10	Concrete Curb Ramps, complete in place, the sum of:	EA.	4	\$ 3,500.00	\$ 14,000.00
11	Remove and Replace 6" Thick Concrete Driveway, complete in place, the sum of:	S.Y.	450	\$ 125.00	\$ 56,250.00
12	Concrete paving header, complete in place, the sum of:	L.F.	75	\$ 30.00	\$ 2,250.00
13	Temporary driveways, complete in place, the sum of:	EA.	18	\$ 1,500.00	\$ 27,000.00
Subtotal Roadway Items:					\$ 426,250.00
Storm Sewer Items					
14	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	700	\$ 150.00	\$ 105,000.00
15	Furnish and Install 4'x4' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	3	\$ 5,000.00	\$ 15,000.00
16	Remove existing storm sewer inlet, complete in place for:	EA.	1	\$ 600.00	\$ 600.00
17	Furnish and Install Storm Sewer Inlet, complete in place, the sum of:	EA.	4	\$ 6,000.00	\$ 24,000.00
18	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	700	\$ 5.00	\$ 3,500.00
Subtotal Storm Sewer Items:					\$ 148,100.00
Water Line Items					
19	8" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	800	\$ 125.00	\$ 100,000.00
20	8" Diameter Wet Connection, complete in place, the sum of:	EA.	2	\$ 2,700.00	\$ 5,400.00
21	8" Gate Valve & Box, AWWA C509, mechanical joint, resilient wedge, NRS open counter clockwise with valve boxes, complete in place, the sum of:	EA.	4	\$ 4,200.00	\$ 16,800.00
22	2" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	2	\$ 500.00	\$ 1,000.00
23	Service Line Reconnection, complete in place, sum of:	EA.	13	\$ 3,000.00	\$ 39,000.00
23	Trench Protection for Water Line, complete in place, the sum of:	L.F.	800	\$ 5.00	\$ 4,000.00
Subtotal Water Line Items:					\$ 166,200.00
Sanitary Sewer Items					
24	Pipe Burst existing 6" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	1,500	\$ 65.00	\$ 97,500.00
25	Pipe Burst existing 10" Sanitary Sewer with 10.75-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	400	\$ 70.00	\$ 28,000.00
26	Furnish and Install 4'x4' Precast Utility Conflict Box with Sump, including steel casing, complete in place, the sum of:	EA.	1	\$ 6,200.00	\$ 6,200.00
27	4-inch and 6-inch service connection (by excavation), all depth, with or without stack, including new cleanout at the right-of-way,complete in place, the sum of:	EA.	10	\$ 2,500.00	\$ 25,000.00

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
28	Furnish and install 4' diameter sanitary sewer manhole, 8' - 12' depth, complete in place, the sum of:	EA.	1	\$ 7,500.00	\$ 7,500.00
29	Rehabilitate existing manhole by 1-inch cementitious liner, complete in place, the sum of:	V.F.	25	\$ 450.00	\$ 11,250.00
30	Remove and replace existing sanitary sewer manhole ring and cover with 32" ring and cover and adjust existing sanitary sewer manholes to grade complete in place, the sum of:	EA.	5	\$ 1,500.00	\$ 7,500.00
31	Furnish and install sanitary sewer manhole inflow protector, all sizes, complete in place, the sum of:	EA.	5	\$ 300.00	\$ 1,500.00
32	Sanitary sewer trench safety, all depths, complete in place, the sum of:	L.F.	1,900	\$ 5.00	\$ 9,500.00
Subtotal Sanitary Sewer Items:					\$ 193,950.00
Subtotal Base Items:					\$ 1,039,500.00
30% Contingency:					\$ 311,850.00
Total Preliminary Cost:					\$ 1,351,350.00

East Kiber Street Asphalt Rehabilitation & Utility Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

Prop. Storm Sewer Improvements

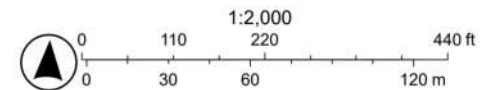
 Prop. 2" Type D
HMAC Overlay

 Prop. Manhole Rehabilitation
and Inflow Protector

 Prop. Fire Hydrant

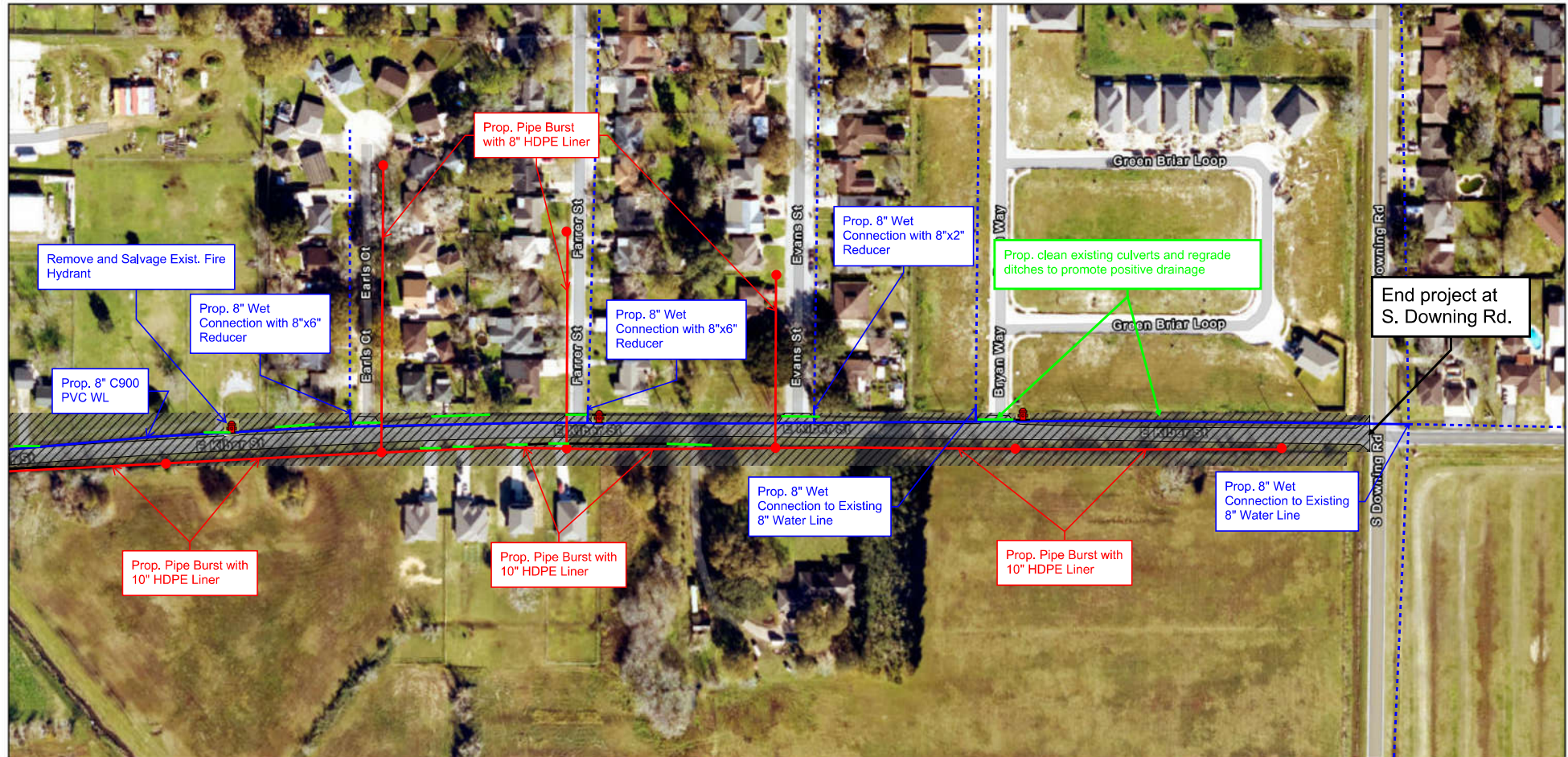
Prop. clean
existing culverts

— Prop. regrade
existing ditches



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

East Kiber Street Asphalt Rehabilitation & Utility Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

Prop. Storm Sewer Improvements

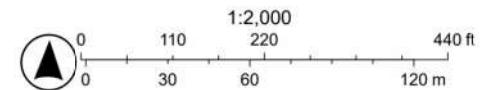
Prop. 2" Type D
HMAC Overlay

Prop. Manhole Rehabilitation
and Inflow Protector

Prop. Fire Hydrant

Prop. clean
existing culverts

Prop. regrade
existing ditches



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

Roadway:		East Kiber Street			
Length of Proposed Reconstruction/Rehabilitation		3950 L.F.			
Width of Proposed Roadway		Match Exist.			
Pavement Rating:		6			
Type of Reconstruction		From 288B to S. Downing Street (4000 LF): Asphalt rehabilitation of an existing asphalt roadway, drainage improvements, and utility improvements			
East Kiber Road					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 75,000.00	\$ 75,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 150,000.00	\$ 150,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 50,000.00	\$ 50,000.00
Subtotal General Items					\$ 275,000.00
Roadway Items					
4	Removal of Existing Asphalt Pavement, complete in place, the sum of:	S.Y.	10,100	\$ 25.00	\$ 252,500.00
5	Recycled Cement Stabilized Base Course, 8" minimum depth, including the removal of any excess material and Microcracking of stabilized base, complete in place, the sum of:	S.Y.	10,100	\$ 15.00	\$ 151,500.00
6	Cement for Base Course (8% by weight), complete in place, the sum of:	TON	300	\$ 85.00	\$ 25,500.00
7	Prime Coat, complete in place, the sum of:	GAL.	3,550	\$ 15.00	\$ 53,250.00
8	2" Type D HMAC overlay, including tack coat, complete in place, the sum of:	S.Y.	2,000	\$ 400.00	\$ 800,000.00
9	Asphalt transition to connect Kiber Street to Anderson Street, consisting of 2" thick Type D Asphalt Overlay, 6" thick Black Base, and 8" thick Cement Stabilized Sand Subgrade, complete in place, the sum of:	S.Y.	190	\$ 200.00	\$ 38,000.00
Subtotal Roadway Items:					\$ 1,320,750.00
Storm Sewer Items					
10	Regrade swale to promote positive drainage, complete in place, the sum of:	L.F.	5,500	\$ 20.00	\$ 110,000.00
11	Clean existing culverts, complete in place, the sum of:	L.F.	2,100	\$ 40.00	\$ 84,000.00
Subtotal Storm Sewer Items:					\$ 194,000.00
Water Line Items					
12	8" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	4,300	\$ 225.00	\$ 967,500.00
13	2" Diameter Wet Connection, complete in place, the sum of:	EA.	2	\$ 600.00	\$ 1,200.00
14	6" Diameter Wet Connection, complete in place, the sum of:	EA.	6	\$ 1,500.00	\$ 9,000.00
15	8" Diameter Wet Connection, complete in place, the sum of:	EA.	4	\$ 2,700.00	\$ 10,800.00
16	2" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	2	\$ 500.00	\$ 1,000.00
17	6" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	6	\$ 800.00	\$ 4,800.00
18	8" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	4	\$ 1,000.00	\$ 4,000.00
19	8" Gate Valve & Box, AWWA C509, mechanical joint, resilient wedge, NRS open counter clockwise with valve boxes, complete in place, the sum of:	EA.	12	\$ 4,200.00	\$ 50,400.00
20	Remove and Salvage Fire Hydrant Assembly, complete in place, the sum of:	EA.	5	\$ 1,000.00	\$ 5,000.00
21	Fire Hydrant Assembly, complete in place, the sum of:	EA.	9	\$ 8,000.00	\$ 72,000.00
22	Trench Protection for Water Line, complete in place, the sum of:	L.F.	4,300	\$ 5.00	\$ 21,500.00
Subtotal Water Line Items:					\$ 1,147,200.00
Sanitary Sewer Items					
23	Pipe Burst existing 6" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	1400	\$ 65.00	\$ 91,000.00
24	Pipe Burst existing 8" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	2700	\$ 65.00	\$ 175,500.00

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
25	Pipe Burst existing 10" Sanitary Sewer with 10.75-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	3100	\$ 70.00	\$ 217,000.00
26	Furnish and install sanitary sewer manhole inflow protector, all sizes, complete in place, the sum of:	EA.	27	\$ 300.00	\$ 8,100.00
27	Remove and replace existing sanitary sewer manhole ring and cover with 32" ring and cover and adjust existing sanitary sewer manholes to grade complete in place, the sum of:	EA.	27	\$ 1,500.00	\$ 40,500.00
28	Sanitary sewer trench safety, all depths, complete in place, the sum of:	L.F.	7,200	\$ 5.00	\$ 36,000.00
Subtotal Sanitary Sewer Items:					\$ 568,100.00
Subtotal Base Items:					\$ 3,505,050.00
30% Contingency:					\$ 1,051,515.00
Total Preliminary Cost:					\$ 4,556,565.00

East Kiber Street Paving, Drainage, & Utility Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

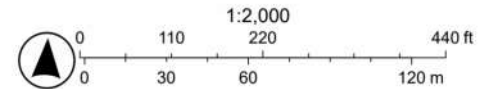
Prop. Water Improvements

Prop. Storm Sewer Improvements



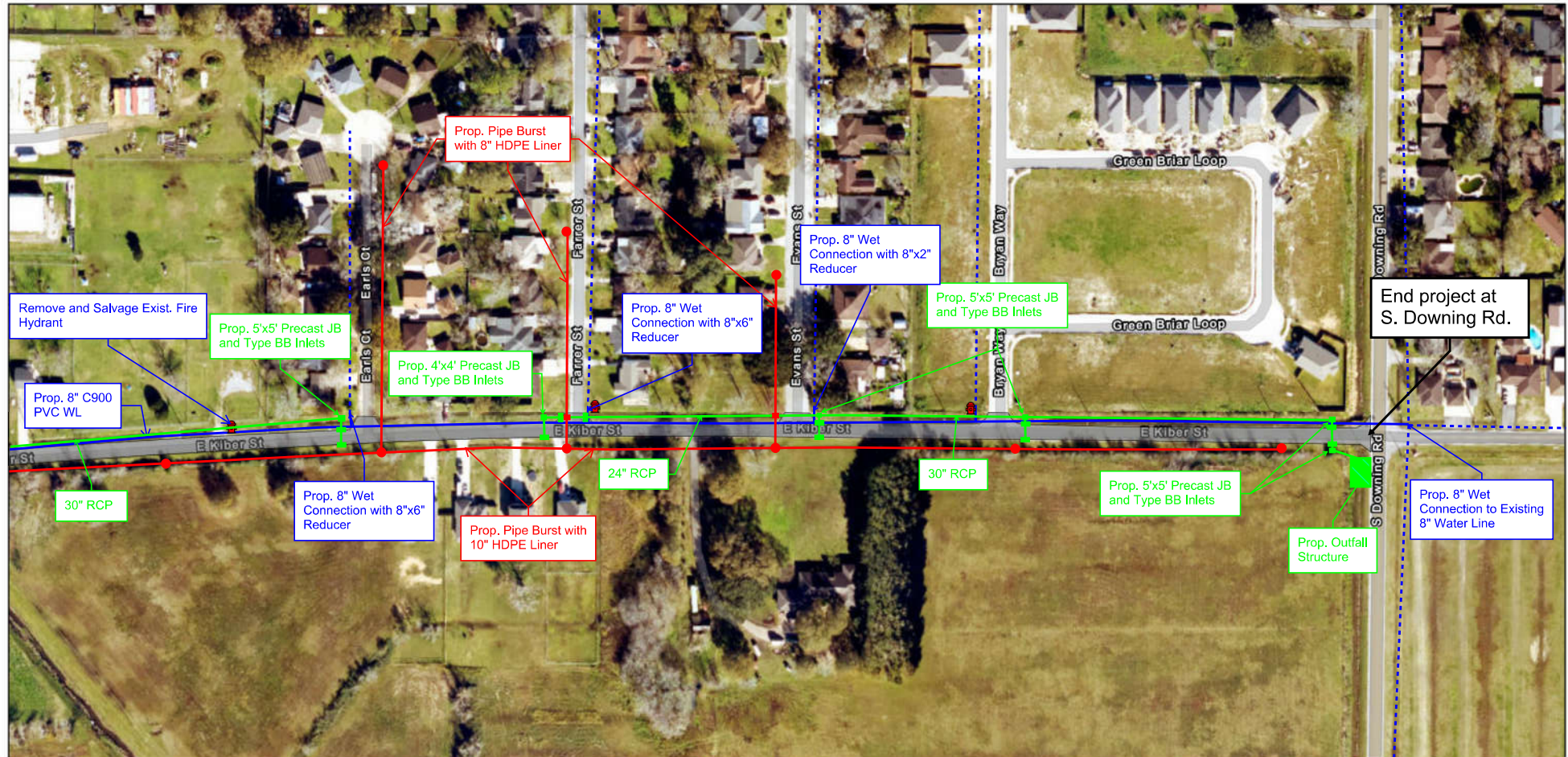
Prop. 7" Reinforced
Concrete Pavement

● Prop. Manhole Rehabilitation
and Inflow Protector

 Prop. Fire Hydrant Prop. Sump
Manhole

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

East Kiber Street Paving, Drainage, & Utility Improvements Project



Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

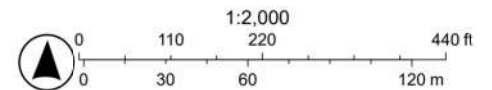
Prop. Storm Sewer Improvements

Prop. 7" Reinforced Concrete Pavement

Prop. Manhole Rehabilitation and Inflow Protector

Prop. Fire Hydrant

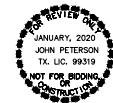
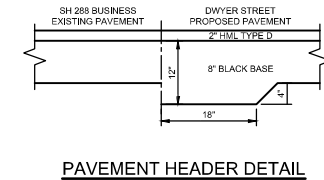
Prop. Sump Manhole



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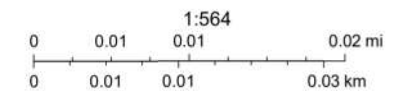
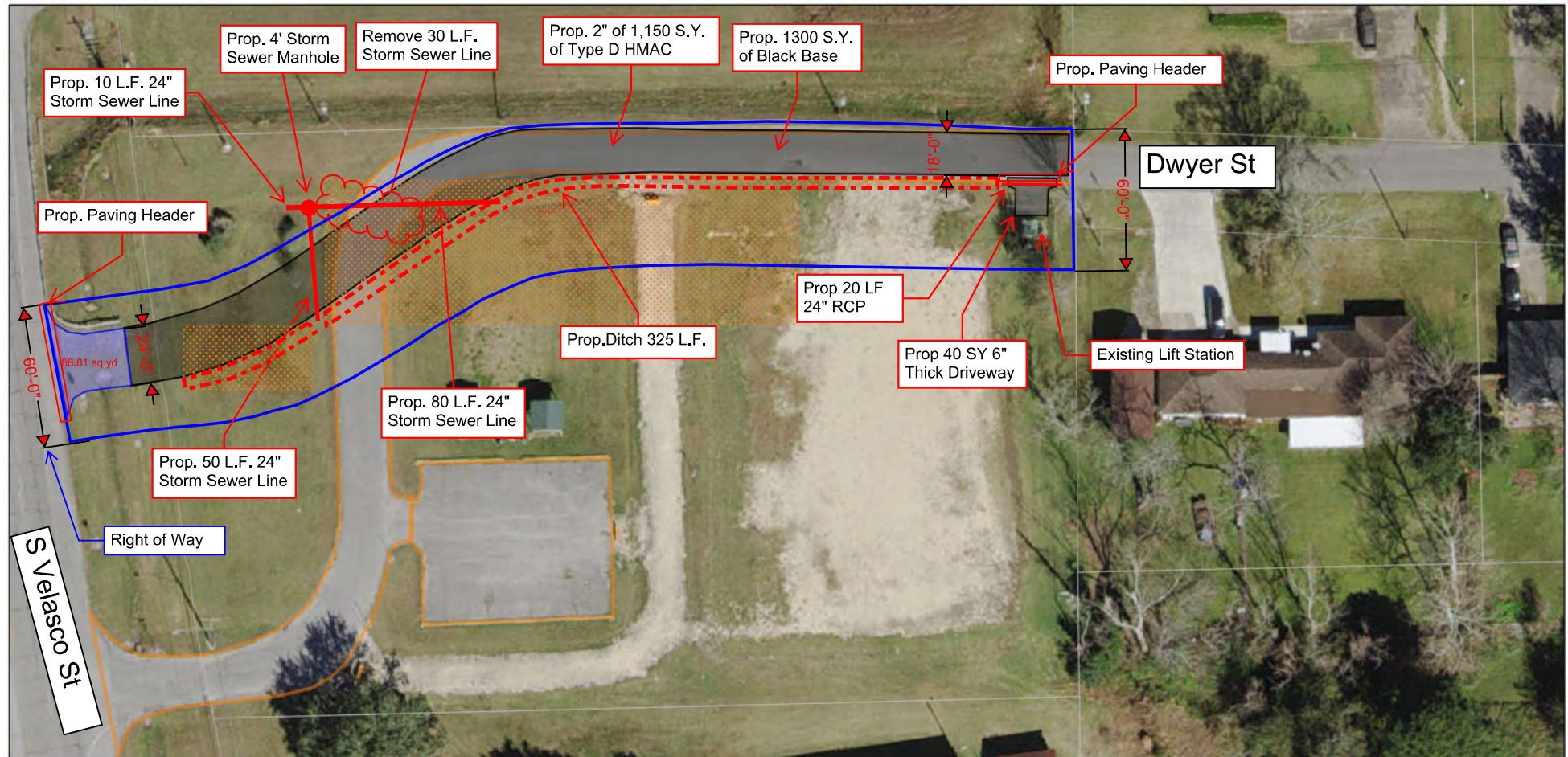
Roadway:		East Kiber Street			
Length of Proposed Reconstruction/Rehabilitation		3950 L.F.			
Width of Proposed Roadway		28 L.F.			
Pavement Rating:		6			
Type of Reconstruction		From 288B to S. Downing Street (4000 LF): Replacement of an existing asphalt roadway with concrete curb and gutter roadway, drainage improvements, and utility improvements			
East Kiber Road					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 175,000.00	\$ 175,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 150,000.00	\$ 150,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 50,000.00	\$ 50,000.00
4	Cut for lowering roadway, complete in place, the sum of:	C.Y.	10,500	\$ 25.00	\$ 262,500.00
Subtotal General Items				\$	637,500.00
Roadway Items					
5	Removal of Existing Asphalt Pavement, complete in place, the sum of:	S.Y.	10,500	\$ 25.00	\$ 262,500.00
6	7" Thick Reinforced Concrete Pavement, complete in place, the sum of:	S.Y.	12,750	\$ 85.00	\$ 1,083,750.00
7	8" Thick Lime Stabilized Subgrade, complete in place, the sum of:	S.Y.	12,000	\$ 15.00	\$ 180,000.00
8	Lime for Lime Stabilized Subgrade, complete in place, the sum of:	TON	275	\$ 400.00	\$ 110,000.00
9	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	7,050	\$ 10.00	\$ 70,500.00
10	Remove and Replace 6" Thick Concrete Driveway, complete in place, the sum of:	S.Y.	1,800	\$ 125.00	\$ 225,000.00
11	Asphalt transition to connect Kiber Street to Anderson Street, consisting of 2" thick Type D Asphalt Overlay, 6" thick Black Base, and 8" thick Cement Stabilized Sand Subgrade, complete in place, the sum of:	S.Y.	190	\$ 200.00	\$ 38,000.00
12	Concrete paving header, complete in place, the sum of:	L.F.	180	\$ 30.00	\$ 5,400.00
13	Temporary driveways, complete in place, the sum of:	EA.	31	\$ 1,500.00	\$ 46,500.00
Subtotal Roadway Items:				\$	2,021,650.00
Storm Sewer Items					
14	Remove existing storm sewer pipe, all types, complete in place, the sum of:	L.F.	2,150	\$ 30.00	\$ 64,500.00
15	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	2,100	\$ 150.00	\$ 315,000.00
16	Furnish and Install 30" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	2,000	\$ 260.00	\$ 520,000.00
17	Furnish and Install 4'x4' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	6	\$ 5,000.00	\$ 30,000.00
18	Furnish and Install 5'x5' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	7	\$ 6,500.00	\$ 45,500.00
19	Remove existing inlet, all types, complete in place, the sum of:	EA.	11	\$ 600.00	\$ 6,600.00
20	Outfall structure, complete in place, the sum of:	L.S.	1	\$ 30,000.00	\$ 30,000.00
21	Furnish and Install Storm Sewer Inlet, complete in place, the sum of:	EA.	26	\$ 6,000.00	\$ 156,000.00
22	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	6,250	\$ 5.00	\$ 31,250.00
Subtotal Storm Sewer Items:				\$	1,198,850.00
Water Line Items					
23	8" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	4,300	\$ 225.00	\$ 967,500.00
24	2" Diameter Wet Connection, complete in place, the sum of:	EA.	2	\$ 600.00	\$ 1,200.00
25	6" Diameter Wet Connection, complete in place, the sum of:	EA.	6	\$ 1,500.00	\$ 9,000.00
26	8" Diameter Wet Connection, complete in place, the sum of:	EA.	4	\$ 2,700.00	\$ 10,800.00
27	2" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	2	\$ 500.00	\$ 1,000.00
28	6" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	6	\$ 800.00	\$ 4,800.00
29	8" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	4	\$ 1,000.00	\$ 4,000.00
30	8" Gate Valve & Box, AWWA C509, mechanical joint, resilient wedge, NRS open counter clockwise with valve boxes, complete in place, the sum of:	EA.	20	\$ 4,200.00	\$ 84,000.00
31	Trench Protection for Water Line, complete in place, the sum of:	L.F.	4,200	\$ 5.00	\$ 21,000.00
Subtotal Water Line Items:				\$	1,103,300.00

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
Sanitary Sewer Items					
32	Pipe Burst existing 6" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	1400	\$ 65.00	\$ 91,000.00
33	Pipe Burst existing 8" Sanitary Sewer with 8.625-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	2700	\$ 65.00	\$ 175,500.00
34	Pipe Burst existing 10" Sanitary Sewer with 10.75-inch O.D. HDPE liner, all depths, including pre and post cleaning and televised videos, complete in place, the sum of:	L.F.	3100	\$ 70.00	\$ 217,000.00
35	Furnish and Install 4'x4' Precast Utility Conflict Box with Sump, including steel casing, complete in place, the sum of:	EA.	4	\$ 6,200.00	\$ 24,800.00
36	Furnish and Install 5'x5' Precast Utility Conflict Box with Sump, including steel casing, complete in place, the sum of:	EA.	1	\$ 8,000.00	\$ 8,000.00
37	Furnish and install sanitary sewer manhole inflow protector, all sizes, complete in place, the sum of:	EA.	27	\$ 300.00	\$ 8,100.00
38	Remove and replace existing sanitary sewer manhole ring and cover with 32" ring and cover and adjust existing sanitary sewer manholes to grade complete in place, the sum of:	EA.	27	\$ 1,500.00	\$ 40,500.00
39	Sanitary sewer trench safety, all depths, complete in place, the sum of:	L.F.	7,200	\$ 5.00	\$ 36,000.00
				Subtotal Sanitary Sewer Items:	\$ 564,900.00
				Subtotal Base Items:	\$ 5,526,200.00
				30% Contingency:	\$ 1,657,860.00
				Total Preliminary Cost:	\$ 7,184,060.00



FILE NAME	2022-10-10 COA Dwyer St Plan and Profile with Proposed Road.dwg
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Dwyer Street Paving and Drainage Improvements Project



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Esri Community Maps Contributors, Brazoria County, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom,

Roadway:		Dwyer Street			
Length of Proposed Reconstruction/Rehabilitation		450 L.F.			
Width of Proposed Roadway		Match Exist.			
Type of Reconstruction		From 90- degree bend in roadway to 288B (450 LF): Realignment of an existing asphalt roadway, drainage improvements, and utility improvements			
Dwyer Street					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 10,000.00	\$10,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 5,000.00	\$5,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 5,000.00	\$5,000.00
Subtotal General Items				\$	20,000.00
Roadway Items					
4	Removal of Existing Asphalt Pavement, complete in place, the sum of:	SY	1,280	\$ 25.00	\$ 32,000.00
5	2" Type D HMAC overlay, including tack coat, complete in place, the sum of:	SY	1,280	\$ 40.00	\$ 51,200.00
6	8" Type A HMAC Black Base, complete in place, the sum of:	SY	1,425	\$ 115.00	\$ 163,875.00
7	Prime Coat, complete in place, the sum of:	GAL	500	\$ 5.00	\$ 2,500.00
8	Asphalt transition to connect Dwyer Street to S. Velasco Street, consisting of 2" thick Type D Asphalt Overlay, 6" thick Black Base, and 8" thick Cement Stabilized Sand Subgrade, complete in place, the sum of:	SY	70	\$ 300.00	\$ 21,000.00
9	Remove Existing Guardrail, complete in place, the sum of:	L.F.	45	\$ 20.00	\$ 900.00
10	Install MTL W-Beam GD Fen (Steel Post), complete in place, the sum of:	L.F.	110	\$ 140.00	\$ 15,400.00
11	Remove and Replace 6" Thick Concrete Driveway, complete in place, the sum of:	S.Y.	150	\$ 125.00	\$ 18,750.00
12	Temporary driveways, complete in place, the sum of:	EA.	3	\$ 1,500.00	\$ 4,500.00
Subtotal Roadway Items:					\$310,125.00
Storm Sewer Items					
13	Remove Existing Storm Sewer, complete in place, the sum of:	L.F.	80	\$ 30.00	\$ 2,400.00
14	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	180	\$ 150.00	\$ 27,000.00
15	Furnish and Install 5'x5' Precast Storm Sewer Junction Box, complete in place, the sum of:	EA.	1	\$ 6,500.00	\$ 6,500.00
16	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	180	\$ 5.00	\$ 900.00
17	Proposed Ditch, complete in place, the sum of:	L.F.	430	\$ 20.00	\$ 8,600.00
Subtotal Storm Sewer Items:					\$45,400.00
Water Line Items					
18	8" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	400	\$ 125.00	\$ 50,000.00
19	6" Diameter Wet Connection, complete in place, the sum of:	EA.	2	\$ 2,500.00	\$ 5,000.00
20	6" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	2	\$ 800.00	\$ 1,600.00
21	Service Line Reconnection, complete in place, the sum of:	EA.	1	\$ 3,000.00	\$ 3,000.00
22	Trench Protection for Water Line, complete in place, the sum of:	L.F.	400	\$ 5.00	\$ 2,000.00
Subtotal Water Line Items:				\$	61,600.00
Subtotal Base Items:				\$	437,125.00
30% Contingency:				\$	131,137.50
Total Preliminary Cost:				\$	568,262.50

Tigner Drive Extension Project



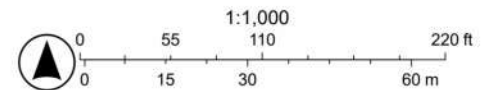
Prop. Roadway and Sidewalk Improvements

Prop. Sanitary Sewer Improvements

Prop. Water Improvements

Prop. Storm Sewer Improvements

Prop. 7" Reinforced Concrete Pavement



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Microsoft, Vantor

Roadway:		Tigner Drive			
Length of Proposed Reconstruction/Rehabilitation		350 L.F.			
Width of Proposed Roadway		Match Exist.			
Type of Reconstruction		From dead end to Austin Colony subdivision limit (350 LF):Extension of an existing concrete curb and gutter roadway past drainage ditch into Austin			
Tigner Drive					
*Storm sewer was not sized using hydraulic calculations and an assumption was made based off of the 48" RCP to the east of the proposed Tigner Drive extension.					
Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Price
General Items					
1	Mobilization, complete in place, the sum of:	L.S.	1	\$ 15,000.00	\$ 15,000.00
2	Traffic Control and Regulation, complete in place, the sum of:	L.S.	1	\$ 50,000.00	\$ 50,000.00
3	Storm Water Pollution Prevention Plan, complete in place, the sum of:	L.S.	1	\$ 100,000.00	\$ 100,000.00
4	Fill for existing drainage ditch, complete in place, the sum of:	C.Y.	3,500	\$ 50.00	\$ 175,000.00
				Subtotal General Items	\$ 340,000.00
Roadway Items					
5	7" Thick Reinforced Concrete Pavement, complete in place, the sum of:	S.Y.	2,700	\$ 85.00	\$ 229,500.00
6	8" Thick Lime Stabilized Subgrade, complete in place, the sum of:	S.Y.	3,000	\$ 15.00	\$ 45,000.00
7	Lime for Lime Stabilized Subgrade, complete in place, the sum of:	TON	80	\$ 400.00	\$ 32,000.00
8	6" Thick Reinforced Concrete Curb, complete in place, the sum of:	L.F.	800	\$ 10.00	\$ 8,000.00
				Subtotal Roadway Items:	\$ 314,500.00
Storm Sewer Items					
9	Remove existing inlet, all types, complete in place, the sum of:	EA.	2	\$ 600.00	\$ 1,200.00
10	Furnish and Install 24" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	60	\$ 150.00	\$ 9,000.00
11	Furnish and Install 60" Diameter Reinforced Concrete Pipe, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	600	\$ 475.00	\$ 285,000.00
12	Furnish and Install 7'x7' Precast Reinforced Concrete Box for ditch crossing, all depths, cement stabilized sand, bedding and backfill, complete in place, the sum of:	L.F.	80	\$ 900.00	\$ 72,000.00
13	Furnish and Install Storm Sewer Inlet, complete in place, the sum of:	EA.	6	\$ 6,000.00	\$ 36,000.00
14	Trench Protection for Storm Sewer, complete in place, the sum of:	L.F.	660	\$ 5.00	\$ 3,300.00
				Subtotal Storm Sewer Items:	\$ 406,500.00
Water Line Items					
15	12" Diameter PVC C-900 Water Line, complete in place, the sum of:	L.F.	375	\$ 225.00	\$ 84,375.00
16	10" Diameter Wet Connection, complete in place, the sum of:	EA.	1	\$ 2,750.00	\$ 2,750.00
17	12" Cut, Plug, and Abandon Existing Water Line, complete in place, the sum of:	EA.	1	\$ 1,500.00	\$ 1,500.00
18	Trench Protection for Water Line, complete in place, the sum of:	L.F.	375	\$ 5.00	\$ 1,875.00
				Subtotal Water Line Items:	\$ 90,500.00
Sanitary Sewer Items					
19	Force Main Adjustment, complete in place, the sum of:	EA.	1	\$ 7,500.00	\$ 7,500.00
				Subtotal Sanitary Sewer Items:	\$ 7,500.00
				Subtotal Base Items:	\$ 1,159,000.00
				30% Contingency:	\$ 347,700.00
				Total Preliminary Cost:	\$ 1,506,700.00