



THE CITY OF DAYTONA BEACH
OFFICE OF THE PURCHASING AGENT

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ADDENDUM NO. 2

DATE: **September 16, 2019**

PROJECT: **ITB 20013
BEACH STREET STREETScape - ORANGE AV TO BAY ST**

OPENING DATE: **October 3, 2019**

This addendum is hereby incorporated into the Request for Proposal for the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~strikethrough~~.

1. The Bid Item Schedule is REVSIED and attached, and is also provided in a protected Excel spreadsheet. Bidders may utilize this spreadsheet to complete the BIS. See <http://purchasing.codb.us> Public Solicitations then Beach Street Streetscape. Download spreadsheet titled, "Addendum_2_ITB-20013_BidForm".
2. Special Instructions, SI 6, subsection 3.A, first paragraph, is hereby CHANGED to read as follows, "**A. Roadway Construction:** Successful completion of five roadway projects that total 8 miles in length. One of the projects shall be a minimum of 1 mile in length ~~with utility construction or removal/relocation~~"
3. Special Instructions, SI 6, subsection 3.A, second paragraph, is hereby CHANGED to read as follows, "Each roadway project must include utility construction or removal/relocation, excavation, subgrade preparation..."

4. Bid Proposal Letter, Reference Form, is hereby CHANGED as follows:

TASK: HORIZONTAL DIRECTIONAL DRILLING

- One Project a Minimum of 1500 Feet Long with 44" >12"Dia. Pipe in a Single Continuous Pull
4. Draft Project Specific Construction Contract, Article III, first paragraph, 5th line, is hereby CHANGED to read, "...as will allow the CONTRACTOR to achieve Substantial Completion within ~~275~~ 245 days after the..."
 5. Section 01025, Measurement and Payment, is hereby REPLACED with the revised Section 01025, attached.
 6. Answers to Bidders Questions

Q1: Is there an anticipated Start date to construction?

A1: Construction start will be January 2, 2020

Q2: Can I submit a lighting fixture for approval for this project, or are you anticipating alternate fixtures if it meets requirements?

A2: The decorative Streetlights are being provided by FPL. The Landscape lights shall be the model specified in the contract drawings.

Q3: Is the Bidder required to be FDOT qualified in signalization as mentioned in the advertisement?

A3: As stated in the Special Instructions under minimum qualifications, the Bidder or Significant Task Subcontractor must be prequalified with FDOT in " 39 Signalization" .

7. Plan Sheets: Sheet 41 – Streetscape Details- In the "Concrete Pavement Detail on this sheet, the reference to 3,000 psi concrete should be revised to read **3,500 psi concrete**
8. All other terms and conditions remain the same.

Proposers shall acknowledge receipt of this addendum on Page BID PROPOSAL LETTER-3.

The City of Daytona Beach

Joanne Flick, CPPO, CPPB
Purchasing Agent

BEACH STREET STREETScape - ORANGE AVENUE TO BAY STREET - REVISED

ITB 20013

BID ITEM SCHEDULE

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
<u>PART A: STREETScape - ORANGE TO BAY</u>					
1.	Mobilization Max 5.0%	1	LS		\$
2.	Maintenance of Traffic	1	LS		\$
3.	Erosion Control				
a.	Silt Fence	2,600	LF		\$
b.	Inlet Protection/Erosion Control	1	LS		\$
4.	Demolition and Disposal:				
a.	Saw Cut Existing Concrete Roadway	1	LS		\$
b.	Remove Existing Striping	1	LS		\$
c.	Remove and Dispose of Existing Sidewalk and Excess Concrete Pavers	1	LS		\$
d.	Remove and Dispose of Existing 18" Wide Colored Header Curb	1	LS		\$
e.	Remove and Dispose of Arches in Mid Block	1	LS		\$
f.	Remove and Dispose of Existing Concrete Sidewalk	1	LS		\$
g.	Remove Existing Signage	1	LS		\$
h.	Remove and Salvage Existing Light Poles and Fixtures (Deliver to City), and Dispose of Existing Light Pole Concrete Footers	1	LS		\$
i.	Remove and Dispose of Existing Palm Trees including Root Ball	1	LS		\$
j.	Remove and Dispose of Existing 3' Wide Valley Gutters	1	LS		\$
k.	Remove and Dispose of Existing "F" Curb	1	LS		\$
l.	Remove and Dispose of Existing Concrete Pavement	1	LS		\$
m.	Remove and Dispose of Existing Asphalt Pavement	1	LS		\$
n.	Temporary Chain Link Construction Fencing	1	LS		\$
o.	Temporary Walkways, Construciton Signage, Misc. Demolition	1	LS		\$
p.	Open Cut and Repair	1,900	SF		\$
q.	Remove Existing Benches, Bike Rack, Planters, and Trash Receptacles and Deliver to City	1	LS		\$
5.	Paving and Drainage:				
a.	8" Concrete Roadway	5,273	SY		\$
b.	12 x 12 Paver on 6" Concrete	2,176	SY		\$
c.	12 x 12 Paver on 1" Sand	2,526	SY		\$
d.	12 x 8 Paver on 6" Concrete	417	SY		\$
e.	12 x 8 Paver on 1" Sand	1,791	SY		\$
f.	Salvage and Reset Existing Pavers on 6" Concrete	84	SY		\$
g.	3-Foot Valley Gutter	1,415	LF		\$
h.	"F" Curb	4,665	LF		\$
i.	6" Sidewalk with Shell	3,412	SY		\$
j.	18" Wide Concrete Band	200	LF		\$
k.	12" Wide Concrete Band	650	LF		\$

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
	l. Handicap Ramp (Concrete with Detectable Warning)	20	EA		\$
	m. Handicap Ramp	8	EA		\$
	n. 6' x 6' Planter with 12" Wide Concrete Band	33	EA		\$
	o. 5' x 5' Planter with 12" Wide Concrete Band	19	EA		\$
	p. 12" x 18" RCP	39	LF		\$
	q. 15" RCP	100	LF		\$
	r. Remove Existing Grate and Replace with Ring and Cover	35	EA		\$
	s. USF 5112 Frame and 6143 Gutter on P Bottom	19	EA		\$
	t. Type "9" Curb Inlet on P Bottom	18	EA		\$
	u. FPL Light Pole 3' x 3' x 6" Concrete	71	EA		\$
	v. As-Built Record Drawings	1	LS		\$
	w. 6" Stabilized Subgrade	2,184	SY		\$
	x. Thermoplastic Striping/Pavement Markings	1	LS		\$
6.	Lighting/Electrical:				
	a. Up Lights	94	EA		\$
	b. Concrete Frame/Collier Uplights	94	EA		\$
	c. Small Handholes	47	EA		\$
	d. Conduit - Orange to Magnolia	600	LF		\$
	e. Wire	2,000	LF		\$
	f. Trenching & Fill - Manual	520	LF		\$
	g. Conduit - Magnolia to ISB	640	LF		\$
	h. Wire	2,150	LF		\$
	i. Trenching & Fill - Manual	550	LF		\$
	j. Conduit - ISB to Bay	900	LF		\$
	k. Wire	3,000	LF		\$
	l. Trenching & Fill - Manual	820	LF		\$
	m. Directional Bores Electrical	1	LS		\$
7.	Tall Median Lights				
	a. Handholes	12	EA		\$
	b. Wire	120	LF		\$
8.	Post Top Lights - Single by FPL				
	Post Top Lights - Double by FPL				
	a. Handholes - Supplied by FPL	74	EA		\$
	b. Conduit - Orange to Magnolia - Supplied by FPL	1,300	LF		\$
	c. Trenching & Fill - Manual	1,220	LF		\$
	d. Conduit - Magnolia to ISB - Supplied by FPL	1,400	LF		\$
	e. Trenching & Fill - Manual	1,100	LF		\$
	f. Conduit - ISB to Bay - Supplied by FPL	1,900	LF		\$
	g. Trenching & Fill - Manual	1,500	LF		\$
	h. Directional Bores Electrical	1	LS		\$

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
9.	Cameras				
	a. Handholes	10	EA		\$
	b. Conduit	600	LF		\$
	c. Trenching & Fill - Manual	600	LF		\$
	d. Camera Poles	3	EA		\$
10.	Two Kiosks - Preserve Power	1	LS		\$
11.	Crosswalks-Provide 120 Volts				
	a. Conduit	300	LF		\$
	b. Wire	1,000	LF		\$
	c. Trenching & Fill - Manual	300	LF		\$
12.	Median Outlets for Tall Median Poles and Medjools				
	a. Handholes	60	EA		\$
	b. Conduit - Mostly 2"	2,700	LF		\$
	c. Trenching & Fill - Manual	1,850	LF		\$
	d. Wire #8 AWG	19,050	LF		\$
	e. Wire #10 AWG	1,520	LF		\$
	f. Garden Posts, Outlets	49	EA		\$
	g. Directional Bores Electrical	1	LS		\$
	h. Wiring at Timers	1	LS		\$
13.	West Side Oak Tree Outlets				
	a. Handholes	29	EA		\$
	b. Conduit - Mostly 2"	2,700	LF		\$
	c. Trenching & Fill - Manual	2,300	LF		\$
	d. Wire #8 AWG	23,050	LF		\$
	e. Garden Posts, Outlets	29	EA		\$
	f. Directional Bores Electrical	1	LS		\$
	g. Wiring at Timers	1	LS		\$
14.	Miscellaneous Electrical (includes Adjusting Vaults, Private Utilities, Utility Boxes, Vaults, Handholes to Provided Grades	1	LS		\$
15.	Landscape:				
	a. 4" Caliper Live Oak	27	EA		\$
	b. Date Palm	12	EA		\$
	c. Chinese Palm	14	EA		\$
	d. Mondo Grass - 1 Gallon	612	EA		\$
	e. Annuals - 1 Gallon	1,188	EA		\$
	f. Sod - St. Augustine	2,050	SY		\$
	g. Sod - Bahia	1,110	SY		\$
	h. 2-foot Root Barrier	1,104	LF		\$
	i. River Rock Mulch	14	CY		\$

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
16.	Irrigation:				
a.	Irrigation (includes Piping, Electrical Connection to Existing Controllers, Electrical Service, Valves, Electrical Valves, Mains, Soaker Hose, and Heads)	1	LS		\$
17.	Bike Rack	7	EA		\$
18.	Signage (New and Replace Existing)	1	LS		\$
19.	Site Furniture				
a.	Benches	7	EA		\$
b.	Trash Receptacle	7	EA		\$
20.	Mid-Block Archway	9	EA		\$
21.	30" x 30" Planter	44	EA		\$
22.	30" x 17" Planter	22	EA		\$
Part A: Sub-Total:					\$ -

PART B: UTILITY IMPROVEMENTS - ORANGE TO BAY

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
23.	Adjust Sanitary Manhole Tops, Water/Reuse, Valve & Meter Boxes	1	LS		\$
24.	Water Distribution:				
a.	6" x 6" Mechanical Joint Tapping Sleeve with Valve and Box (F&I)	1	EA		\$
b.	6" x 12" Reducer DIP (Class 350 Cement Lined)	1	EA		\$
c.	6" PVC Water Main (F&I) (PVC C-900 DR-18)	40	LF		\$
d.	8" PVC Water Main (F&I) (PVC-900 DR-18)	70	LF		\$
e.	8" Resilient Seat Gate Valve & Valve Box	3	EA		\$
f.	12" x 8" Tee DIP (Class 350 Cement Lined)	6	EA		\$
g.	8" x 8" Mechanical Joint Tapping Sleeve with Valve and Box (F&I)	1	EA		\$
h.	8" 45° Bend DIP (Class 350 Cement Lined)	1	EA		\$
i.	8" 90° Bend DIP (Class 350 Cement Lined)	1	EA		\$
j.	8" Plug DIP (Class 350 Cement Lined)	1	EA		\$
k.	12" PVC Water Main (F&I) (PVC C-900 DR-18)	1,500	LF		\$
l.	14" x 12" Reducer DIP (Class 350 Cement Lined)	3	EA		\$
m.	12" 45° Bend DIP (Class 350 Cement Lined)	4	EA		\$
n.	12" x 12" Tee DIP (Class 350 Cement Lined)	2	EA		\$
o.	12" Resilient Seat Gate Valve & Valve Box	7	EA		\$
p.	12" Plug DIP (Class 350 Cement Lined)	3	EA		\$
q.	12" Cap with 2" Blow Off	2	EA		\$
r.	2" Automatic Combination Air and Vacuum Release Valve and Vault (ARI)	4	EA		\$
s.	14" HDPE Water Main Directional Drill Pipe	540	LF		\$
t.	3/4" Water Meter, Meter Vault and Check Valve	28	EA		\$
u.	1 1/2" Water Meter, Meter Vault and Check Valve	1	EA		\$
v.	2" Water Meter, Meter Vault and Check Valve	7	EA		\$
w.	Pipe Testing and Chlorination	1	LS		\$
x.	As-Built Record Drawings	1	LS		\$
y.	Connections to Existing Pipe	4	EA		\$

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
25.	Sanitary Sewer:				
a.	8" PVC DR-18	45	LF		\$
b.	8" Plug	2	EA		\$
26.	Reuse:				
a.	8" x 4" Tapping Sleeve with Valve (Contractor to Tap)	7	EA		\$
b.	6" Purple PVC DR-18 Reuse	275	LF		\$
c.	6" Resilient Seat Gate Valve & Reuse Valve Box	1	EA		\$
d.	8" x 6" Tapping Sleeve with Valve and Box (Contractor to Tap)	1	EA		\$
e.	4" Reuse Service Cap	7	EA		\$
f.	4" Purple PVC	180	LF		\$
g.	6" Reuse Service Cap	1	EA		\$
h.	4" Reuse Valve and Reuse Valve Box	6	EA		\$
Part B: Sub-Total:					\$

PART C: LIFT STATION FORCE MAIN

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
27.	14" HDPE Sanitary Force Main Directional Drill	1,110	LF		\$
28.	14" x 12" Reducer Class 350, Epoxy Lined	4	EA		\$
29.	2" Automatic Combination Air and Vacuum Release Valve and Vault (ARI)	2	EA		\$
30.	12" PVC DR-18 Force Main	45	LF		\$
31.	16" x 12" Tapping Sleeve with Valve	1	EA		\$
32.	12" 45° Bend Class 350, Epoxy Lined	4	EA		\$
33.	12" Plug Valve	2	EA		\$
34.	12" Plug	1	EA		\$
35.	12" 90° Bend Class 350, Epoxy Lined	2	EA		\$
36.	2" Automatic Air Release Valve in Sanitary Manhole with 2'x2' Weep Hole with Traffic Bearing Lid	1	EA		\$
Part C: Sub-Total:					\$ -

PART D: TRAFFIC

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
37.	Conduit - Underground (FDOT Item #630-2-11)	402	LF		\$
38.	Conduit - Directional Bore (FDOT Item #630-2-12)	470	LF		\$
39.	Conduit - Above Ground (Riser) (FDOT Item #630-2-14)	100	LF		\$
40.	Signal Cable (FDOT Item #632-7-1)	5	PI		\$
41.	Pull Box (FDOT Item #635-2-11)	37	EA		\$
42.	Electrical Power Service, Underground (FDOT Item #639-1-112)	3	AS		\$
43.	Electrical Service Wire (FDOT Item #639-2-1)	300	LF		\$
44.	Aluminum Pedestal (FDOT Item #646-1-11)	11	EA		\$
45.	Aluminum Pedestal, Button, Sign (FDOT Item #646-1-12)	6	EA		\$
46.	Relocate Red Pole (FDOT Item #646-1-40)	2	EA		\$
47.	Pedestrian Signal Head (FDOT Item #653-1-11)	16	AS		\$
48.	Remove Ped Signal Head (FDOT Item #653-1-60)	14	AS		\$
49.	RRFB, Post, Sign, Controller as Applicable (FDOT Item #654-2-11)	12	AS		\$
50.	Loop Assenbly, Type B (FDOT Item #660-2-102)	3	AS		\$
51.	Adjust Video Detection Zones (FDOT Item #660-4-50)	1	EA		\$

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
52.	Pedestrian Detector (FDOT Item #665-1-11)	16	EA		\$ _____
53.	Remove Ped Detector (FDOT Item #665-1-60)	14	EA		\$ _____
54.	Modify Existing Controller (FDOT Item #670-5-410)	2	AS		\$ _____
55.	Sign, Single Post (FDOT Item #700-1-11)	12	AS		\$ _____
Part D: Sub-Total:					\$ _____
(A+B+C+D) GRAND TOTAL:					\$ _____

Contractor's Name: _____

Contractor's Address: _____

Contractor's Signature: _____

Printed Name: _____

SECTION 01025
MEASUREMENT AND PAYMENT

PART 1 – GENERAL REQUIREMENTS

1.1 SUMMARY

- A. Explanation of the Measurement and Payment for the bid and pay items is made for information and guidance. The omission of reference to any item in this description shall not, however, alter the intent of the bid form or relieve the CONTRACTOR of the necessity of furnishing such as part of the contract.
- B. Payment shall be made for the items listed on the Bid Schedule on the basis of the work actually performed and completed to the configuration and extent shown on the Drawings, described in the specifications, noted in the construction plans, noted in the Summary of Pay Items and on the Summary of Quantity sheet.
- C. The quantities set forth in the Bid Schedule are approximate and are given to establish a uniform basis for the comparison of bids. The CITY reserves the right to increase or decrease the quantity of any class or portion of the work during the progress of construction in accordance with the terms of the contract.
- D. Unit prices are used as a means of computing the final figures for bid and contract purposes, for periodic payments for work performed, for determining value of additions or deletions and wherever else reasonable.

1.2 REFERENCE

- A. The General Conditions, the Summary of Quantities and the Bid Schedule.

1.3 TYPICAL PAYMENT ITEM COSTS

- A. No separate payment will be made for the following items. The cost of such work shall be included in the unit price of applicable pay items listed in the Bid Schedule unless otherwise noted in the construction plans:
 - 1. Clearing and grubbing including removal and disposal of all above and below ground improvements such as but not limited to trees, brush, residential commercial and bridge structures, septic tanks and drain-fields, roadway pavement and concrete, drainage and utilities systems, etc....unless otherwise specified.
 - 2. Trench and roadway excavation, including rock and cemented coquina excavation and disposal, excavation and removal of unsuitable soils and unsuitable materials of any nature unless otherwise specified.

SECTION 01025
MEASUREMENT AND PAYMENT

3. Structure excavation including rock and cemented coquina excavation and disposal, excavation and disposal of unsuitable materials of any nature except as otherwise specified.
4. Dewatering and disposal of surplus water, prevention of sediment and erosion pollution and prevention of flooding
5. Structural fill, backfill, including furnishing, placement, compaction and final grading of suitable fill material, pipe bedding and compacted granular material.
6. The temporary removal and replacement of fences and walls.
7. Foundation and borrow materials, except as otherwise specified.
8. Paved and unpaved roadway restoration or replacement including but not limited to all disturbed improvements within the right of way, adjacent traffic signal system components included within the limits of lump sum work, unless otherwise specified.
9. Maintenance of vehicular and pedestrian traffic including detours and haul routes.
10. Shoring, sheeting and worksite safety.
11. Any material or equipment required to be installed and utilized for tests.
12. Concrete encasement.
13. Maintaining the existing quality of service during construction.
14. Cleanup.
15. Field offices.
16. Job signs.
17. Sanitary and potable water supplies.
18. Power.
19. Watchmen.
20. Bonds and Insurance.
21. Any and all Geotechnical testing of backfill, subgrade base material, asphalt and concrete (by City).
22. Testing/Quality Control (by City).
23. Dewatering.
24. Tracer Wire and Tape.
25. Pigging and Pressure Testing.
26. Chlorination.

1.4 SPECIAL BID/PAY ITEM MEASUREMENT & PAYMENT LIST
(Not Applicable)

PART 2 – PRODUCTS

(Not Applicable, General Conditions may apply)

**SECTION 01025
MEASUREMENT AND PAYMENT**

PART 3 – EXECUTION

(Not Applicable, General Conditions may apply)

PART A: STREETScape – ORANGE TO BAY**1. Mobilization Max 5.0%****(Bid Item No. 1)**

Definition. Mobilization shall be the preparatory work and operations in mobilizing for beginning work on the project, including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site, and for the establishment of temporary offices, storage buildings, safety equipment and first aid supplies, sanitary and other facilities, as required by the Contract Documents and applicable laws and regulations. The costs of bonds, required insurance, permits and any other preconstruction expense necessary for the start of the work, excluding the cost of construction materials, shall also be included in this item. Demobilization shall be the work of removing temporary facilities from the site.

Payment. Partial payments for this lump sum item shall be made in accordance with the following schedule:

Percent of Original Contract Amount Earned	Allowable Percent of the Lump Sum Price for the Item
After Contract Execution	10
10	25
25	50
50	75
100	100

2. Maintenance of Traffic**(Bid Item No. 2)**

Measurement. The quantity for payment shall be on a Lump Sum basis.

Payment. Partial payments for this lump sum item shall be made in accordance with the following schedule:

Percent of Original Contract Amount Earned	Allowable Percent of the Lump Sum Price for the Item
After Contract Execution	25
25	50
50	75
100	100

**SECTION 01025
MEASUREMENT AND PAYMENT**

3. Erosion Control (Bid Item No.3)

a. Silt Fence (Bid Item No. 3-A)

Measurement – The quantity for payment shall be on a Linear Foot basis.

Payment - Payment of the applicable unit price per linear foot price shall be full compensation for supplying all labor, materials and equipment necessary silt fence, as shown on the Contract Drawings.

b. Inlet Protection/Erosion Control (Bid Item No. 3-B)

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment at the applicable lump sum price will be made based on completion of any additional erosion/turbidity control, silt fencing, floating turbidity barriers, and other means necessary in accordance with the contract plans and specifications directly associated with installation of the Project. Payment will be full compensation for all materials, labor, equipment, and work necessary to complete the additional work in accordance with City/State/Federal requirements and the contract plans and specifications. This item includes the cost to obtain NPDES NOI and NOT permit and Stormwater Pollution Prevention Plan if disturbance is greater than 1 acre.

4. Demolition and Disposal (Bid Item No. 4)

a. Saw Cut Existing Concrete Roadway (Bid Item No. 4-A)

Measurement. – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the Saw Cut Existing Concrete Roadway, as shown on the Contract Drawings.

b. Remove Existing Striping (Bid Item No. 4-B)

Measurement. – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the Remove Existing Striping, as shown on the Contract Drawings.

**SECTION 01025
MEASUREMENT AND PAYMENT**

c. **Remove and Dispose of Existing Sidewalk and Excess Concrete Pavers**

(Bid Item No.4-C)

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Dispose of Existing Sidewalk and Excess Pavers by Contractor in a legal manner, as shown on the Contract Drawings.

d. **Remove and Dispose of Existing 18” Wide Colored Header Curb** **(Bid Item No. 4-D)**

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Dispose of Existing 18” Wide Colored Header Curb, as shown on the Contract Drawings.

e. **Remove and Dispose of Arches in Mid-Block**

(Bid Item No. 4-E)

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Dispose of Arches in Mid-Block, as shown on the Contract Drawings.

f. **Remove and Dispose of Existing Concrete Sidewalk**

(Bid Item No. 4-F)

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Dispose of Existing Concrete Sidewalk, as shown on the Contract Drawings.

g. **Remove Existing Signage**

(Bid Item No. 4-G)

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove Existing Signage, as shown on the Contract Drawings.

**SECTION 01025
MEASUREMENT AND PAYMENT**

- h. **Remove and Salvage Existing Light Poles and Fixtures (Deliver to City), and Dispose of Existing Light Pole Concrete Footers** **(Bid Item No. 4-H)**

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Salvage Existing Light Poles and Fixtures (Deliver to City), and Dispose of Existing Light Pole Concrete Footers, as shown on the Contract Drawings.

- i. **Remove and Dispose of Existing Palm Trees Including Root Ball** **(Bid Item No. 4-I)**

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Dispose of Existing Palm Trees including Root Ball, as shown on the Contract Drawings.

- j. **Remove and Dispose of Existing 3' Wide Valley Gutters** **(Bid Item No. 4-J)**

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Dispose of Existing 3' Wide Valley Gutters, as shown on the Contract Drawings.

- k. **Remove and Dispose of Existing "F" Curb** **(Bid Item No. 4-K)**

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Dispose of Existing "F" Curb, as shown on the Contract Drawings.

- l. **Remove and Dispose of Existing Concrete Pavement** **(Bid Item No. 4-L)**

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Dispose of Existing Concrete Pavement, as shown on the Contract Drawings.

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- m. **Remove and Dispose of Existing Asphalt Pavement** **(Bid Item No. 4-M)**
Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Remove and Dispose of Existing Asphalt Pavement, as shown on the Contract Drawings.
- n. **Temporary Chain Link Construction Fencing** **(Bid Item No. 4-N)**
Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Temporary Chain Link Construction Fencing, as shown on the Contract Drawings.
- o. **Temporary Walkways, Construction Signage, Misc. Demolition** **(Bid Item No. 4-O)**
Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Temporary Walkways, Construction Signage, Misc. Demolition, as shown on the Contract Drawings.
- p. **Open Cut and Repair** **(Bid Item No. 4-P)**
Measurement - The quantity for payment shall be the number of Square Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square foot shall be full compensation for supplying all labor, materials and equipment necessary for the Open Cut and Repair, as shown on the Contract Drawings.
- q. **Remove Existing Benches, Bike Rack, Planters, and Trash Receptacles and Deliver to City** **(Bid Item No. 4-Q)**
Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Removal of Existing Benches, Bike Rack, Planters, and Trash Receptacles and Deliver to City, as shown on the Contract Drawings.

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5. Paving and Drainage**(Bid Item No. 5)****a. 8" Concrete Roadway****(Bid Item No. 5-A)**

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8" Concrete Roadway, as shown on the Contract Drawings.

b. 12 x 12 Paver on 6" Concrete**(Bid Item No. 5-B)**

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12 x 12 Paver on 6" Concrete, as shown on the Contract Drawings.

c. 12 x 12 Paver on 1" Sand**(Bid Item No. 5-C)**

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12 x 12 Paver on 1" Sand, as shown on the Contract Drawings.

d. 12 x 8 Paver on 6" Concrete**(Bid Item No. 5-D)**

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12 x 8 Paver on 6" Concrete, as shown on the Contract Drawings.

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- e. **12 x 8 Paver on 1” Sand** **(Bid Item No. 5-E)**
Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12 x 8 Paver on 1” Sand, as shown on the Contract Drawings.
- f. **Salvage and Reset Existing Pavers on 6” Concrete** **(Bid Item No. 5-F)**
Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Salvage and Reset Existing Pavers on 6” Concrete, as shown on the Contract Drawings.
- g. **3-Foot Valley Gutter** **(Bid Item No. 5-G)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 3-Foot Valley Gutter, as shown on the Contract Drawings.
- h. **“F” Curb** **(Bid Item No. 5-H)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the “F” Curb, as shown on the Contract Drawings.

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- i. **6” Sidewalk with Shell** **(Bid Item No. 5-I)**
Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6” Sidewalk with Shell, as shown on the Contract Drawings.
- j. **18” Wide Concrete Band** **(Bid Item No. 5-J)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 18” Concrete Band, as shown on the Contract Drawings.
- k. **12” Wide Concrete Band** **(Bid Item No. 5-K)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12” Concrete Band, as shown on the Contract Drawings.
- l. **Handicap Ramp (Concrete with Detectable Warning)** **(Bid Item No. 5-L)**
Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Handicap Ramp (Concrete with Detectable Warning), as shown on the Contract Drawings.

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- m. **Handicap Ramp** **(Bid Item No. 5-M)**
Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Handicap Ramp, as shown on the Contract Drawings.
- n. **6' x 6' Planter with 12" Wide Concrete Band** **(Bid Item No. 5-N)**
Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6' x 6' Planter with 12" Wide Concrete Band, as shown on the Contract Drawings.
- o. **5' x 5' Planter with 12" Wide Concrete Band** **(Bid Item No. 5-O)**
Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 5' x 5' Planter with 12" Wide Concrete Band, as shown on the Contract Drawings.
- p. **12" x 18" RCP** **(Bid Item No. 5-P)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12" x 18" RCP, as shown on the Contract Drawings.

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- q. **15" RCP** **(Bid Item No. 5-Q)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 15" RCP, as shown on the Contract Drawings.
- r. **Remove Existing Grate and Replace with Ring and Cover** **(Bid Item No. 5-R)**
Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary to Remove Existing Grate and Replace with Ring and Cover, as shown on the Contract Drawings.
- s. **USF 5112 Frame and 6143 Gutter on P Bottom** **(Bid Item No. 5-S)**
Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of USF 5112 Frame and 6143 Gutter on P Bottom, as shown on the Contract Drawings.
- t. **Type "9" Curb Inlet on P Bottom** **(Bid Item No. 5-T)**
Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of Type "9" Curb Inlet on P Bottom, as shown on the Contract Drawings.

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u. **FPL Light Pole 3' x 3' x 6" Concrete** **(Bid Item No. 5-U)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of FPL Light Pole 3' x 3' x 6" Concrete, as shown on the Contract Drawings.

v. **As-Built Record Drawings** **(Bid Item No. 5-V)**

Measurement. – Measurement of As-Built Drawings/Certified Record Drawings shall be on a lump sum basis.

Payment - Payment for As-Built Drawings/Certified Record Drawings shall be at the contract unit price. The completeness of the As-Built Drawings/Certified Record Drawings shall conform to section 01720 (As-Built/Record Documents) and will be the City's determination as to completeness, serviceability, and compatibility. Please go to the City of Daytona Beach's web site under Utilities Department, Standard Details 2019-2020 see pages 126 thru 132 for more information on As-Built Drawings.

w. **6" Stabilized Subgrade** **(Bid Item No. 5-W)**

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" Stabilized Subgrade, as shown on the Contract Drawings.

x. **Thermoplastic Striping/Pavement Markings** **(Bid Item No. 5-X)**

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Thermoplastic Striping/Pavement Markings, as shown on the Contract Drawings.

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6. Lighting/Electrical**(Bid Item No. 6)****a. Up Lights****(Bid Item No. 6-A)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Up Lights, as shown on the Contract Drawings.

b. Concrete Frame/Collier Uplights**(Bid Item No. 6-B)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Concrete Frame/Collier Uplights, as shown on the Contract Drawings.

c. Small Handholes**(Bid Item No. 6-C)**

Measurement. The quantity for payment shall be the number of Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price for each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Small Handholes, as shown on the Contract Drawings.

d. Conduit – Orange to Magnolia**(Bid Item No. 6-D)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – Orange to Magnolia, as shown on the Contract Drawings.

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- e. **Wire** **(Bid Item No. 6-E)**
Measurement. The quantity for payment shall be the number of Linear Foot of electrical wire that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the electrical Wire, as shown on the Contract Drawings.
- f. **Trenching & Fill - Manual** **(Bid Item No. 6-F)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.
- g. **Conduit – Magnolia to ISB** **(Bid Item No. 6-G)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – Magnolia to ISB, as shown on the Contract Drawings.
- h. **Wire** **(Bid Item No. 6-H)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Wire, as shown on the Contract Drawings.

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- i. **Trenching & Fill – Manual** **(Bid Item No. 6-I)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.
- j. **Conduit – ISB to Bay** **(Bid Item No. 6-J)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – ISB to Bay, as shown on the Contract Drawings.
- k. **Wire** **(Bid Item No. 6-K)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Wire, as shown on the Contract Drawings.
- l. **Trenching & Fill – Manual** **(Bid Item No. 6-L)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.

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- m. **Directional Bores Electrical** **(Bid Item No. 6-M)**
Measurement. The quantity for payment shall be on a Lump Sum basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Directional Bores Electrical, as shown on the Contract Drawings.

7. **Tall Median Lights** **(Bid Item No. 7)**

- a. **Handholes** **(Bid Item No. 7-A)**
Measurement. The quantity for payment shall be the number of Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price for each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Handholes, as shown on the Contract Drawings.

- b. **Wire** **(Bid Item No. 7-B)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Wire, as shown on the Contract Drawings.

8. **Post Top Lights – Single by FPL** **(Bid Item No. 8)**
Post Top Lights – Double by FPL

- a. **Handholes – Supplied by FPL** **(Bid Item No. 8-A)**
Measurement. The quantity for payment shall be the number of Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price for each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Handholes – Supplied by FPL, as shown on the Contract Drawings.

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- b. **Conduit – Orange to Magnolia – Supplied by FPL** **(Bid Item No. 8-B)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – Orange to Magnolia – Supplied by FPL, as shown on the Contract Drawings.
- c. **Trenching & Fill – Manual** **(Bid Item No. 8-C)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.
- d. **Conduit – Magnolia to ISB – Supplied by FPL** **(Bid Item No. 8-D)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – Magnolia to ISB – Supplied by FPL, as shown on the Contract Drawings.
- e. **Trenching & Fill – Manual** **(Bid Item No. 8-E)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.

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f. **Conduit – ISB to Bay – Supplied by FPL** **(Bid Item No. 8-F)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – ISB to Bay – Supplied by FPL, as shown on the Contract Drawings.

g. **Trenching & Fill – Manual** **(Bid Item No. 8-G)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.

h. **Directional Bores Electrical** **(Bid Item No. 8-H)**

Measurement. The quantity for payment shall be on a Lump Sum basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Directional Bores Electrical, as shown on the Contract Drawings.

9. **Cameras** **(Bid Item No. 9)**

a. **Handholes** **(Bid Item No. 9-A)**

Measurement. The quantity for payment shall be the number of Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price for each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Handholes, as shown on the Contract Drawings.

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b. **Conduit** **(Bid Item No. 9-B)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit, as shown on the Contract Drawings.

c. **Trenching & Fill – Manual** **(Bid Item No. 9-C)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.

d. **Camera Poles** **(Bid Item No. 9-D)**

Measurement. The quantity for payment shall be the number of Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price for each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Camera Poles, as shown on the Contract Drawings.

10. **Two Kiosks – Preserve Power** **(Bid Item No. 10)**

Measurement. The quantity for payment shall be on a Lump Sum basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Two Kiosks – Preserve Power, as shown on the Contract Drawings.

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11. Crosswalks-Provide 120 Volts**(Bid Item No. 11)**a. **Conduit****(Bid Item No. 11-A)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit, as shown on the Contract Drawings.

b. **Wire****(Bid Item No. 11-B)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Wire, as shown on the Contract Drawings.

c. **Trenching & Fill – Manual****(Bid Item No. 11-C)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.

12. Median Outlets for Tall Median Poles and Medjools**(Bid Item No. 12)**a. **Handholes****(Bid Item No. 12-A)**

Measurement. The quantity for payment shall be the number of Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price for each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Handholes, as shown on the Contract Drawings.

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- b. **Conduit – Mostly 2”** **(Bid Item No. 12-B)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – Mostly 2”, as shown on the Contract Drawings.
- c. **Trenching & Fill – Manual** **(Bid Item No. 12-C)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.
- d. **Wire # 8 AWG** **(Bid Item No. 12-D)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Wire #8 AWG, as shown on the Contract Drawings.
- e. **Wire # 10 AWG** **(Bid Item No. 12-E)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Wire #10 AWG, as shown on the Contract Drawings.

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f. **Garden Posts, Outlets** **(Bid Item No. 12-F)**

Measurement. The quantity for payment shall be the number of Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price for each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Garden Posts, Outlets, as shown on the Contract Drawings.

g. **Directional Bores Electrical** **(Bid Item No. 12-G)**

Measurement. The quantity for payment shall be on a Lump Sum basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Directional Bores Electrical, as shown on the Contract Drawings.

h. **Wiring at Timers** **(Bid Item No. 12-H)**

Measurement. The quantity for payment shall be on a Lump Sum basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Wiring at Timers, as shown on the Contract Drawings.

13. **West Side Oak Trees Outlets** **(Bid Item No. 13)**

a. **Handholes** **(Bid Item No. 13-A)**

Measurement. The quantity for payment shall be the number of Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price for each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Handholes, as shown on the Contract Drawings.

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- b. **Conduit – Mostly 2”** **(Bid Item No. 13-B)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – Mostly 2”, as shown on the Contract Drawings.
- c. **Trenching & Fill – Manual** **(Bid Item No. 13-C)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Trenching and Fill - Manual, as shown on the Contract Drawings.
- d. **Wire # 8 AWG** **(Bid Item No. 13-D)**
Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Wire #8 AWG, as shown on the Contract Drawings.
- e. **Garden Posts, Outlets** **(Bid Item No. 13-E)**
Measurement. The quantity for payment shall be the number of Each basis that are satisfactorily furnished and installed.
- Payment.** Payment of the applicable unit price for each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Garden Posts, Outlets, as shown on the Contract Drawings.

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f. **Directional Bores Electrical** **(Bid Item No. 13-F)**

Measurement. The quantity for payment shall be on a Lump Sum basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Directional Bores Electrical, as shown on the Contract Drawings.

g. **Wiring at Timers** **(Bid Item No. 13-G)**

Measurement. The quantity for payment shall be on a Lump Sum basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Wiring at Timers, as shown on the Contract Drawings.

14. Miscellaneous Electrical (includes Adjusting Vaults, Private Utilities, Utility Boxes, Vaults, Handholes to Provided Grades) **(Bid Item No. 14)**

Measurement. The quantity for payment shall be on a Lump Sum basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Miscellaneous Electrical (includes Adjusting Vaults, Private Utilities, Utility Boxes, Vaults, Handholes to Provided Grades, as shown on the Contract Drawings.

15. Landscape **(Bid Item No. 15)**

a. **4" Caliper Live Oak** **(Bid Item No. 15-A)**

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the 4" Caliper Live Oak, as shown on the Contract Drawings.

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- b. **Date Palm** **(Bid Item No. 15-B)**
Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment** - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the Date Palm, as shown on the Contract Drawings.
- c. **Chinese Palm** **(Bid Item No. 15-C)**
Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment** - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the Chinese Palm, as shown on the Contract Drawings.
- d. **Mondo Grass – 1 Gallon** **(Bid Item No. 15-D)**
Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment** - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the Mondo Grass – 1 Gallon, as shown on the Contract Drawings.
- e. **Annuals – 1 Gallon** **(Bid Item No. 15-E)**
Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment** - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the Annuals – 1 Gallon, as shown on the Contract Drawings.

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f. **Sod – St. Augustine** **(Bid Item No. 15-F)**

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Sod – St. Augustine, as shown on the Contract Drawings.

g. **Sod – Bahia** **(Bid Item No. 15-G)**

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Sod Bahia, as shown on the Contract Drawings.

h. **2-Foot Root Barrier** **(Bid Item No. 15-H)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 2-Foot Root Barrier, as shown on the Contract Drawings.

i. **River Rock Mulch** **(Bid Item No. 15-J)**

Measurement. The quantity for payment shall be the number of Cubic Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per cubic yards shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the River Rock Mulch, as shown on the Contract Drawings.

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16. Irrigation

(Bid Item No. 16)

- a. **Irrigation (includes Piping, Electrical Connection to Existing Controllers, Electrical Service, Valves, Electrical Valves Mains, Soaker Hose, and Heads) (Bid Item No. 16-A)**
Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Irrigation (includes Piping, Electrical Connection to Existing Controllers, Electrical Service, Valves, Electrical Valves Mains, Soaker Hose, and Heads, as shown on the Contract Drawings.

17. Bike Rack

(Bid Item No. 17)

- Measurement** – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the Bike Rack, as shown on the Contract Drawings.

18. Signage (New and Replace Existing)

(Bid Item No. 18)

- Measurement** – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Signage (New and Replace Existing), as shown on the Contract Drawings.

19. Site Furniture

(Bid Item No. 19)

- a. **Benches**

(Bid Item No. 19-A)

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the Benches, as shown on the Contract Drawings.

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b. **Trash Receptacle** **(Bid Item No. 19-B)**

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the Trash Receptacle, as shown on the Contract Drawings.

20. Mid-Block Archway **(Bid Item No. 20)**

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the Mid-Block Archway, as shown on the Contract Drawings.

21. 30” x 30” Planter **(Bid Item No. 21)**

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the 30” x 30” Planter, as shown on the Contract Drawings.

22. 30” x 17” Planter **(Bid Item No. 22)**

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the 30” x 17” Planter, as shown on the Contract Drawings.

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PART B: UTILITY IMPROVEMENTS – ORANGE TO BAY

23. Adjust Sanitary Manhole Tops, Water/Reuse, Valve & Meter Boxes (Bid Item No. 23)

Measurement – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment of the applicable lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Adjust Sanitary Manhole Tops, Water/Reuse, Valve & Meter Boxes, as shown on the Contract Drawings.

24. Water Distribution

a. **6”x 6” Mechanical Joint Tapping Sleeve with Valve and Box (F&I) (Bid Item No. 24-A)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment shall be made at the contract price for each tapping sleeve, valve, valve box, debris cap, and valve marker tag. The City requires that a size on size tapping sleeve be a MECHANICAL JOINT TAPPING SLEEVE FOR CENTRIFUGAL C.I., D.I, & PVC PIPE. The contract price shall be full compensation for all materials, equipment and labor required to complete the installation in accordance with the drawings and specifications. This item includes any joint restraint and the adjustment of valve box to final grade and concrete collar, if required.

b. **6” x 12” Reducer DIP (Class 350 Cement Lined) (Bid Item No. 24-B)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

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c. **6” PVC Water Main (F&I) (PVC C-900 DR-18)** **(Bid Item No. 24-C)**

Measurement - The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment - Payment shall be made at the contract unit price per linear foot of all applicable pipe diameters as measured along the horizontal centerline of pipe from its origination point to the end of the pipe, regardless of vertical deflection. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, restrained joints, equipment, labor, marker tape, locator wire, locator wire “continuity testing”, pigging, grout filling of any well point holes, excavation and replacement of any unsuitable materials, and all other items necessary to complete the installation of the pipe. 6” Water main pipe shall be PVC C-900 DR-18. Density testing will be furnished by the City at the direction of the City's project representative. Trench and roadway excavation, including rock and cemented coquina excavation and disposal, excavation and removal of unsuitable soils and unsuitable materials of any nature unless otherwise specified, including necessary pavement base removal shall be in the unit price.

d. **8” PVC Water Main (F&I) (PVC-900 DR-18)** **(Bid Item No. 24-D)**

Measurement - The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment - Payment shall be made at the contract unit price per linear foot of all applicable pipe diameters as measured along the horizontal centerline of pipe from its origination point to the end of the pipe, regardless of vertical deflection. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, restrained joints, equipment, labor, marker tape, locator wire, locator wire “continuity testing”, pigging, grout filling of any well point holes, excavation and replacement of any unsuitable materials, and all other items necessary to complete the installation of the pipe. 8” PVC Water main pipe shall be PVC C-900 DR-18. Density testing will be furnished by the City at the direction of the City's project representative. Trench and roadway excavation, including rock and cemented coquina excavation and disposal, excavation and removal of unsuitable soils and unsuitable materials of any nature unless otherwise specified, including necessary pavement base removal shall be in the unit price.

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e. **8” Resilient Seat Gate Valve & Valve Box** **(Bid Item No. 24-E)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for each installation of the applicable diameter resilient seat gate valve at the applicable unit price for the valve and valve box and concrete collar as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications including adjustment of valve box to final grade and shall include joint restraint and attachment of valve to adjacent fittings where shown as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, restrained joints, equipment, labor, marker tape, locator wire, location wire “continuity testing”, and all other items necessary to complete the installation of the valve.

f. **12” x 8” Tee DIP (Class 350 Cement Lined)** **(Bid Item No. 24-F)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

g. **8”x8” Mechanical Joint Tapping Sleeve with Valve and Box (F&I) (Bid Item No. 24-G)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment shall be made at the contract price for each tapping sleeve, valve, valve box, debris cap, and valve marker tag. The City requires that a size on size tapping sleeve be a MECHANICAL JOINT TAPPING SLEEVE FOR CENTRIFUGAL C.I., D.I, & PVC PIPE. The contract price shall be full compensation for all materials, equipment and labor required to complete the installation in accordance with the drawings and specifications. This item includes any joint restraint and the adjustment of valve box to final grade and concrete collar, if required.

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h. 8” 45° Bend DIP (Class 350 Cement Lined) (Bid Item No. 24-H)

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

i. 8” 90° Bend DIP (Class 350 Cement Lined) (Bid Item No. 24-I)

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

j. 8” Plug DIP (Class 350 Cement Lined) (Bid Item No. 24-J)

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

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k. **12” PVC Water Main (F&I) (PVC C-900 DR-18)** **(Bid item No. 24-K)**

Measurement - The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment - Payment shall be made at the contract unit price per linear foot of all applicable pipe diameters as measured along the horizontal centerline of pipe from its origination point to the end of the pipe, regardless of vertical deflection. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, restrained joints, equipment, labor, marker tape, locator wire, locator wire “continuity testing”, pigging, grout filling of any well point holes, excavation and replacement of any unsuitable materials, and all other items necessary to complete the installation of the pipe. 12” Water main pipe shall be PVC C-900 DR-18. Density testing will be furnished by the City at the direction of the City's project representative. Trench and roadway excavation, including rock and cemented coquina excavation and disposal, excavation and removal of unsuitable soils and unsuitable materials of any nature unless otherwise specified, including necessary pavement base removal shall be in the unit price.

l. **14”x12” Reducer DIP (Class 350 Cement Lined)** **(Bid Item No. 24-L)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

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m. **12” 45° Bend DIP (Class 350 Cement Lined)** **(Bid Item No. 24-M)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

n. **12”x12” Tee DIP (Class 350 Cement Lined)** **(Bid Item No. 24-N)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

o. **12” Resilient Seat Gate Valve & Valve Box** **(Bid Item No. 24-O)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for each installation of the applicable diameter resilient seat gate valve at the applicable unit price for the valve and valve box and concrete collar as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications including adjustment of valve box to final grade and shall include joint restraint and attachment of valve to adjacent fittings where shown as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, restrained joints, equipment, labor, marker tape, locator wire, location wire “continuity testing”, and all other items necessary to complete the installation of the valve.

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- p. **12” Plug DIP (Class 350 Cement Lined)** **(Bid Item No. 24-P)**
Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment** - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.
- q. **12” Cap with 2” Blow Off** **(Bid Item No. 24-Q)**
Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment** - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12” Cap with 2” Blow Off, as shown on the Contract Drawings.
- r. **2” Automatic Combination Air and Vacuum Release Valve and Vault (ARI)**
(Bid Item No. 24-R)
Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.
- Payment.** Payment will be made at the unit price for each automatic air release valve and vault installed per the City standards including valves, pipe connection, piping, vault and other work/material needed as shown in the plans and specifications. Density testing will be furnished by the City at the direction of the City's project representative.

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- s. **14” HDPE Water Main Directional Drill Pipe** **(Bid Item No. 24-S)**
Measurement - The quantity for payment shall be the actual number of feet of pipe that are satisfactorily furnished, installed and restrained, as measured along the length of the centerline of the completed pipeline, without deduction for the length of valves and fittings.

Payment - Payment of the applicable unit price per linear foot for each crossing listed in the Bid Form shall be full compensation for furnishing all plant, labor, materials, and equipment necessary to install the FPVC 14” Water main by the directional drill method to the elevations and the stationing shown on the Drawings. The cost for transition sleeves, bends, or any mechanical device, two strands of locate wire, and following the requirements found within Section 02619 of the Specifications, shall be included within the cost for this pay item.
- t. **¾” Water Meter, Meter Vault and Check Valve** **(Bid Item No. 24-T)**
Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the ¾” Water Meter, Meter Vault and Check Valve, as shown on the Contract Drawings.
- u. **1 ½” Water Meter, Meter Vault and Check Valve** **(Bid Item No. 24-U)**
Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 1 ½” Water Meter, Meter Vault and Check Valve, as shown on the Contract Drawings.
- v. **2” Water Meter, Meter Vault and Check Valve** **(Bid Item No. 24-V)**
Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 2” Water Meter, Meter Vault and Check Valve, as shown on the Contract Drawings.

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w. **Pipe Testing and Chlorination** **(Bid Item No. 24-W)**

Measurement. – The quantity for payment shall be on a Lump Sum basis.

Payment - Payment shall be made at the lump sum unit price for pressure testing, chlorination, and dechlorination of all pressure piping unless otherwise specified or required. Payment shall be for all labor, materials, equipment, excavation and backfill, and any other items necessary to properly and successfully test and bacteriologically clear pressure mains on the Project. Costs to perform this work will also include costs to coordinate with City staff for chlorination and sampling, removal of testing apparatus (including necessary blowoffs), and proper permanent installation of test points, including any required valve boxes, required by the work to remain. Permanently retained test points shall be indicated in the as-builts.

x. **As-Built Record Drawings** **(Bid Item No. 24-X)**

Measurement. – Measurement of As-Built Drawings/Certified Record Drawings shall be on a lump sum basis.

Payment - Payment for As-Built Drawings/Certified Record Drawings shall be at the contract unit price. The completeness of the As-Built Drawings/Certified Record Drawings shall conform to section 01720 (As-Built/Record Documents) and will be the City's determination as to completeness, serviceability, and compatibility. Please go to the City of Daytona Beach's web site under Utilities Department, Standard Details 2019-2020 see pages 126 thru 132 for more information on As-Built Drawings.

y. **Connections to Existing Pipe** **(Bid Item No. 24-Y)**

Measurement. – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment shall be made at the per each unit price per applicable diameter to furnish and install a complete connection consisting of an MJ sleeve or Dresser-style coupling (where applicable) where shown on the Project plans. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, tracer wire connections, materials (sleeves/couplings), necessary restraints, equipment, labor, marker tape and all items necessary to complete the installation of the connection. Fittings and their restraints required for alignment will be paid separately and shall be as otherwise specified. Density testing will be furnished by the City at the direction of the City's project representative.

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25. Sanitary Sewer**(Bid Item No. 25)**a. **8" PVC DR-18****(Bid Item No. 25-A)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8" PVC DR-18, as shown on the Contract Drawings. Density testing will be by the City at the direction of the City's project representative.

b. **8" Plug****(Bid Item No. 25-B)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8" Plug including locator/marker balls, as shown on the Contract Drawings.

26. Reuse**(Bid Item No. 26)**a. **8" x 4" Tapping Sleeve with Valve (Contractor to Tap)****(Bid Item No. 26-A)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8" x 4" Tapping Sleeve with Valve (Contractor to Tap), as shown on the Contract Drawings.

b. **6" Purple PVC DR-18 Reuse****(Bid Item No. 26-B)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" Purple PVC DR-18 Reuse, as shown on the Contract Drawings. Density testing will be furnished by the City at the direction of the City's project representative. Trench and roadway excavation, including rock and cemented coquina excavation and disposal, excavation and removal of unsuitable soils and unsuitable materials of any nature unless otherwise specified, including necessary pavement base removal shall be in the unit price.

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c. **6” Resilient Seat Gate Valve & Reuse Valve Box** **(Bid Item No. 26-C)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for each installation of the applicable diameter resilient seat gate valve at the applicable unit price for the valve and valve box and concrete collar as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications including adjustment of valve box to final grade and shall include joint restraint and attachment of valve to adjacent fittings where shown as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, restrained joints, equipment, labor, marker tape, locator wire, location wire “continuity testing”, and all other items necessary to complete the installation of the reuse valve.

d. **8” x 6” Tapping Sleeve with Valve and Box (Contractor to Tap)** **(Bid Item No. 26-D)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8” x 6” Tapping Sleeve with Valve and Box (Contractor to Tap), as shown on the Contract Drawings.

e. **4” Reuse Service Cap** **(Bid Item No. 26-E)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 4” Reuse Service Cap includes locator/marker ball, as shown on the Contract Drawings.

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f. **4" Purple PVC** **(Bid Item No. 26-F)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 4" Purple PVC, C-900 DR-18 as shown on the Contract Drawings. Density testing will be furnished by the City at the direction of the City's project representative. Trench and roadway excavation, including rock and cemented coquina excavation and disposal, excavation and removal of unsuitable soils and unsuitable materials of any nature unless otherwise specified, including necessary pavement base removal shall be in the unit price.

g. **6" Reuse Service Cap** **(Bid Item No. 26-G)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" Reuse Service Cap, as shown on the Contract Drawings.

h. **4" Reuse Valve and Reuse Valve Box** **(Bid Item No. 26-H)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 4" Reuse Valve and Reuse Valve Box, as shown on the Contract Drawings.

PART C: LIFT STATION FORCE MAIN

27. **14" HDPE Sanitary Force Main Directional Drill** **(Bid Item No. 27)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot for each crossing listed in the Bid Form shall be full compensation for furnishing all plant, labor, materials, and equipment necessary to install the FPVC 14" Sanitary force main by the directional drill method to the elevations and the stationing shown on the Drawings. The cost for transition sleeves, bends, or any mechanical device, two strands of locate wire, and following the requirements found within Section 02619 of the Specifications, shall be included within the cost for this pay item.

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28. 14" x 12" Reducer Class 350, Epoxy Lined (Bid Item No. 28)

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 14" x12" Reducer Class 350, Epoxy Lined, as shown on the Contract Drawings.

**29. 2" Automatic Combination Air and Vacuum Release Valve and Vault (ARI)
(Bid Item No. 29)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the 2" Automatic Combination Air and Vacuum Release Valve and Vault (ARI) includes fused MJ transitions and wire (2), as shown on the Contract Drawings. Density testing will be by the City at the direction of the City's project representative.

30. 12" PVC DR-18 Force Main (Bid Item No. 30)

Measurement - The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment - Payment shall be made at the contract unit price per linear foot of all applicable pipe diameters as measured along the horizontal centerline of pipe from its origination point to the end of the pipe, regardless of vertical deflection. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, restrained joints, equipment, labor, marker tape, locator wire, locator wire "continuity testing", pigging, grout filling of any well point holes, excavation and replacement of any unsuitable materials, and all other items necessary to complete the installation of the pipe. Force main pipe shall be PVC DR-18. Density testing will be furnished by the City at the direction of the owner's project representative. Trench and roadway excavation, including rock and cemented coquina excavation and disposal, excavation and removal of unsuitable soils and unsuitable materials of any nature unless otherwise specified, including necessary pavement base removal shall be in the unit price.

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31. 16” x 12” Tapping Sleeve with Valve**(Bid Item No. 31)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment shall be made at the contract price for each tapping sleeve, valve, valve box, debris cap, and valve marker tag. The City requires that a size on size tapping sleeve be a MECHANICAL JOINT TAPPING SLEEVE FOR CENTRIFUGAL C.I., D.I, & PVC PIPE. The contract price shall be full compensation for all materials, equipment and labor required to complete the installation in accordance with the drawings and specifications. This item includes any joint restraint and the adjustment of valve box to final grade and concrete collar, if required.

32. 12” 45° Bend Class 350, Epoxy Lined**(Bid Item No. 32)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

33. 12” Plug Valve**(Bid Item No. 33)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12” Plug Valve, as shown on the Contract Drawings.

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34. 12” Plug**(Bid Item No. 34)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

35. 12” 90° Bend Class 350, Epoxy Lined**(Bid Item No. 35)**

Measurement - The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment will be made for the installation of the applicable diameter MJ compact fitting at the applicable unit price for each as shown on the plans. The contract unit price will be full compensation for all materials and work necessary to complete the installation in accordance with the drawings and specifications and shall include joint restraints as part of this unit price. The unit price shall be full compensation for all dewatering, excavation, backfill, compaction, materials, equipment, labor, marker tape, locator wire, location wire “continuity testing”, successful hydrostatic testing and all other items necessary to complete installation of the fitting.

36. 2” Automatic Air Release Valve in Sanitary Manhole with 2’ x 2’ Weep Hole with Traffic Bearing Lid**(Bid Item No. 36)**

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 2” Automatic Air Release Valve in Sanitary Manhole with 2’ x 2’ Weep Hole with Traffic Bearing Lid, as shown on the Contract Drawings.

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PART D: TRAFFIC

37. Conduit – Underground (FDOT Item #630-2-11) **(Bid Item No. 37)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit - Underground, as shown on the Contract Drawings.

38. Conduit – Directional Bore (FDOT Item #630-2-12) **(Bid Item No. 38)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – Directional Bore, as shown on the Contract Drawings.

39. Conduit – Above Ground (Riser) (FDOT Item #630-2-14) **(Bid Item No. 39)**

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Conduit – Above Ground (Riser), as shown on the Contract Drawings.

40. Signal Cable (FDOT Item #632-7-1) **(Bid Item No. 40)**

Measurement – The quantity for payment shall be on a Per Intersection basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per intersection shall be full compensation for supplying all labor, materials and equipment necessary for the Signal Cable, as shown on the Contract Drawings.

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41. Pull Box (FDOT Item #635-2-11) (Bid Item No. 41)

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for Pull Box, as shown on the Contract Drawings.

42. Electrical Power Service, Underground (FDOT Item #639-1-112) (Bid Item No. 42)

Measurement – The quantity for payment shall be on a per Assembly basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per assembly shall be full compensation for supplying all labor, materials and equipment necessary for Electrical Power Service, as shown on the Contract Drawings.

43. Electrical Service Wire (FDOT Item #639-2-1) (Bid Item No. 43)

Measurement – The quantity for payment shall be on a Linear Foot basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for Electrical Service Wire, as shown on the Contract Drawings.

44. Aluminum Pedestal (FDOT Item #646-1-11) (Bid Item No. 44)

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for Aluminum Pedestal, as shown on the Contract Drawings.

45. Aluminum Pedestal, Button Sign (FDOT Item #646-1-12) (Bid Item No. 45)

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for Aluminum Pedestal, Button Sign, as shown on the Contract Drawings.

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46. Relocate Red Pole (FDOT Item #646-1-40) (Bid Item No. 46)

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for Relocate Red Pole, as shown on the Contract Drawings.

47. Pedestrian Signal Head (FDOT Item #653-1-11) (Bid Item No. 47)

Measurement – The quantity for payment shall be on a per Assembly basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per assembly shall be full compensation for supplying all labor, materials and equipment necessary for Pedestrian Signal Head, as shown on the Contract Drawings.

48. Remove Ped Signal Head (FDOT Item #653-1-60) (Bid Item No. 48)

Measurement – The quantity for payment shall be on a per Assembly basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per assembly shall be full compensation for supplying all labor, materials and equipment necessary for Remove Ped Signal Head, as shown on the Contract Drawings.

49. RRFB, Post, Sign, Controller as Applicable (FDOT Item #654-2-11) (Bid Item No. 49)

Measurement – The quantity for payment shall be on a per Assembly basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per assembly shall be full compensation for supplying all labor, materials and equipment necessary for RRFB, Post, Sign, Controllers as Applicable, as shown on the Contract Drawings.

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50. Loop Assembly, Type B (FDOT Item #660-2-102) (Bid Item No. 50)

Measurement – The quantity for payment shall be on a per Assembly basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per assembly shall be full compensation for supplying all labor, materials and equipment necessary for Loop Assembly, Type B, as shown on the Contract Drawings.

51. Adjust Video Detection Zones (FDOT Item #660-4-50) (Bid Item No. 51)

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for Adjust Video Detection Zones, as shown on the Contract Drawings.

52. Pedestrian Detector (FDOT Item #665-1-11) (Bid Item No. 52)

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for Pedestrian Detector, as shown on the Contract Drawings.

53. Remove Pedestrian Detector (FDOT Item #665-1-60) (Bid Item No. 53)

Measurement – The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for Remove Pedestrian Detector, as shown on the Contract Drawings.

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54. Modify Existing Controller (FDOT Item #670-5-410) (Bid Item No. 54)

Measurement – The quantity for payment shall be on a per Assembly basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per assembly shall be full compensation for supplying all labor, materials and equipment necessary for Modify Existing Controller, as shown on the Contract Drawings.

55. Sign, Single Post (FDOT Item #700-1-11) (Bid Item No. 55)

Measurement – The quantity for payment shall be on a per Assembly basis that are satisfactorily furnished and installed.

Payment - Payment of the applicable unit price per assembly shall be full compensation for supplying all labor, materials and equipment necessary for Sign, Single Post, as shown on the Contract Drawings.

END OF SECTION