



**City of Tampa**  
*Jane Castor, Mayor*

**Contract Administration**  
**Michael W. Chucran, Director**  
306 East Jackson Street, 4N  
Tampa, FL 33602

Office (813) 274-8116  
Fax: (813) 274-7368

**ADDENDUM 6**

**Via E-Mail**

**DATE: August 17, 2020**

Contract 19-C-00018; E. Columbus Drive from N Nebraska Ave (SR45) to 14th St. Bike Lane/Sidewalk –  
FDOT LAP

Bidders on the above referenced project are hereby notified that the following addendum is made to the  
Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

Item 1: Replace Proposal pages P-2, P-3 and P-4 with the attached pages P-2R, P-3R and P-4R.

Item 2: Replace plan sheet nos. 1, 2B, 3, SQ-1, U-01 and U-02 with the attached plan sheet nos. 1, 2B,  
3, SQ-1, U-01 and U-02.

Item 3: Attached are responses to RFIs.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum  
shall remain in full force and effect. Questions are to be e-mailed to Contract  
Administration@tampagov.net.

*Jim Greiner*

Jim Greiner, P.E., Contract Management Supervisor

**E. Columbus Dr. From N. Nebraska Ave. (SR 45) to 14th St. Bike Lane/Sidewalk**  
**FDOT LAP 436639-1-58-01**  
**City Contract No. 19-C-00018**

<b>200-ROADWAY</b>							
<b>PAY ITEM #</b>	<b>ITEM DESCRIPTION - A</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>UNIT PRICE IN WORDS</b>	<b>UNIT PRICE</b>	<b>TOTAL PRICE</b>	
0101 1	MOBILIZATION	LS	1				
0102 1	MAINTENANCE OF TRAFFIC	LS	1				
0999 25	CONTINGENCY	LS	1	Fifty Thousand Dollars	\$50,000.00		\$50,000.00
4.07	REMEDATION	LS	1	Thirty Thousand Dollars	\$30,000.00		\$30,000.00
0102104	TEMPORARY SIGNALIZATION AND MAINTENANCE, INTERSECTION	ED	1060				
0102107 1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION	ED	1060				
0104 10 3	SEDIMENT BARRIER	LF	100				
0104 18	INLET PROTECTION SYSTEM	EA	114				
0110 1 1	CLEARING & GRUBBING	AC	0.824				
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	2950				
0120 1	REGULAR EXCAVATION	CY	500.5				
0285709	OPTIONAL BASE, BASE GROUP 09	SY	1090				
0327 70 7	MILLING EXIST ASPH PAVT, 4" AVG DEPTH	SY	8541				
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22	TN	89.9				
0337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	794.4				
0350 3 5	PLAIN CEMENT CONCRETE PAVEMENT, 8"	SY	566				
0425 2 61	MANHOLES, P-8, <10'	EA	9				
0425 2 91	MANHOLES, J-8, <10'	EA	1				
0425 3 91	JUNCTION BOX, DRAINAGE, UTILITY, < 10'	EA	28				
0425 5 1	MANHOLE, ADJUST, UTILITIES	EA	11				
0425 6	VALVE BOXES, ADJUST	EA	17				
425.10	CITY OF TAMPA Type 1 INLET	EA	14				
425.20	CITY OF TAMPA TYPE T DITCH BOTTOM INLET	EA	36				
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0430174112	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 12"SD	LF	4				
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0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	4568				
0520 2 4	CONCRETE CURB, TYPE D	LF	353				
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	1036				
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK (SCORING PATTERNED)	SY	3643				
0523 1	PATTERNED PAVEMENT, VEHICULAR AREAS	SY	209				
0527 2	DETECTABLE WARNINGS	SF	241				
<b>SUB TOTAL A:</b>							
<b>300-SIGNING &amp; PAVEMENT MARKINGS - B</b>							
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	15				
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF (HISTORIC SIGNS)	AS	1				
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT 12-20 SF	AS	4				
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF (HISTORIC SIGNS)	AS	6				

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0700 1 60	SINGLE POST SIGN, REMOVE	AS	26			
0700 3501	SIGN PANEL, RELOCATE, UP TO 12 SF	EA	1			
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1			
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	220			
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	229			
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.053			
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	1			
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	6			
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	15			
0711 14123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF	1106			
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	811			
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	22			
0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	1.023			
0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.765			
<b>SUB TOTAL B:</b>						
<b>500-SIGNALIZATION - C</b>						
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	200			
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	525			
0632 7 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	2			
0632 7 6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1			
0633 1121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	150			
0633 2 32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	12			
0633 4 1	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE, FURNISH & INSTALL	LF	50			
0633 4 6	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE, REMOVE	LF	30			
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	28			
0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1			
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1			
0639 1610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS	1			
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	105			
0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1			
0641 2 11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA	2			
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1			
0641 2 70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL- POLE 30' AND GREATER	EA	2			
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	15			
0646 1 60	ALUMINUM SIGNALS POLE, REMOVE	EA	5			
0649 21 12	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 60'-40'	EA	2			
0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	8			
0650 1 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS	4			
0650 2102	VEHICULAR SIGNAL AUXILIARIES, REPAIR/REPLACE/RETROFIT- FURNISH & INSTALL, BACKPLATE- BLACK WITH REFLECT BORDER	EA	7			
0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	12			
0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	3			
0653 1 60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL- POLE/PEDESTAL TO REMAIN	AS	4			
0654 2 22	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR POWERED, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS	6			
0660 1103	LOOP DETECTOR INDUCTIVE, F&I, TYPE 3	EA	4			

**E. Columbus Dr. From N. Nebraska Ave. (SR 45) to 14th St. Bike Lane/Sidewalk**  
**FDOT LAP 436639-1-58-01**  
**City Contract No. 19-C-00018**

PAY ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE IN WORDS	UNIT PRICE	TOTAL PRICE
0660 2101	LOOP ASSEMBLY- F&I, TYPE A	AS	4			
0660 4 11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1			
0660 4 12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	4			
0665 1 12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA	18			
0665 1 60	PEDESTRIAN DETECTOR, REMOVE- POLE/PEDESTAL TO REMAIN	EA	5			
0670 5110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS	2			
0670 5600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	2			
0685 1 13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	2			
0700 3201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	4			
0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	8			
<b>SUB TOTAL C:</b>						
<b>600-LANDSCAPE &amp; PERIPHERALS - D</b>						
526-1.2	RECYCLED BRICK BLOCK-PAVERS	SF	810			
580-2.1.1	BALD CYPRESS 26' HT 10' SPREAD - INSTALL ONLY	EA	13			
580-2.1.1.1	BALD CYPRESS 26' HT 10' SPREAD *FURNISH AND INSTALL*	EA	13			
580-2.1.2	CHINESE FAN PALM-16' CT INSTALL ONLY	EA	14			
580-2.1.2.1	CHINESE FAN PALM-16' CT *FURNISH AND INSTALL*	EA	14			
580-2.1.3	IXORA 3 GALLON - FURNISH AND INSTALL	EA	49			
0580 2.4	PINE BARK MULCH	CY	2.4			
0580 2.5	PREPARED PLANTING SOILS	CY	2.8			
0580 3 1	STRUCTURED SOILS	CY	243			
0580 3 2	TREE GRATE - NEENAH CAST IRON 72" SQ 16" DIA OPENING (palms)	LF	14			
0580 3 3	TREE GRATE - NEENAH CAST IRON 72" SQ ,36" DIA OPENING (trees)	LF	13			
0580 3 4	TREE BRACING IN TREE WELL	EA	27			
0580 3 5	FABRIC WRAPPED STONE MATT #57 STONE	EA	27			
0580 3 6	TREE GRATE FRAME	EA	27			
0580 3 7	TREE GUARD TYPE-E, FOR 36" DIA OPENING (trees)	EA	13			
0580 3 8	LUMP SUM -TRUCK WATERING FOR 1 YEAR FROM FINAL ACCEPTANCE	LS	1			
<b>SUB TOTAL D:</b>						
<b>700-UTILITIES - E</b>						
1050 51202	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 2"	LF	16			
1050 51206	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 6"	LF	65			
1050 51212	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 12"	LF	20			
1055 51112	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 12"	EA	4			
1055 51412	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL UNION, 12"	EA	2			
1080 23106	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 6"	EA	1			
1080 23112	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 12"	EA	1			
1080 24106	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 6"	EA	2			
1080 27106	UTILITY FIXTURE- LINE STOP ASSEMBLY, FURNISH AND INSTALL, 6"	EA	1			
1080 27112	UTILITY FIXTURE- LINE STOP ASSEMBLY, FURNISH AND INSTALL, 12"	EA	2			
1080 29106	UTILITY FIXTURE, MECHANICAL JOINT RESTRAINT, FURNISH & INSTALL, 6"	EA	8			
1080 29112	UTILITY FIXTURE, MECHANICAL JOINT RESTRAINT, FURNISH & INSTALL, 12"	EA	10			
1644113 08	FIRE HYDRANT, F&I, STANDARD, 2 HOSE, 1PUMPER, 6"	EA	1			
1644900	FIRE HYDRANT, REMOVE	EA	1			
<b>SUB TOTAL E:</b>						
<b>TOTAL A+B+C+D+E</b>						

**CONTRACT PLANS COMPONENTS**  
 ROADWAY PLANS  
 SIGNING AND PAVEMENT MARKING PLANS  
 SIGNALIZATION PLANS  
 LANDSCAPE ARCHITECTURE PLANS  
 UTILITY WORK BY HIGHWAY CONTRACTOR AGREEMENT PLANS

**STATE OF FLORIDA  
 CITY OF TAMPA**

**WALK-BIKE LAP PROJECT**

CITY PROJECT NO. 1001221

FINANCIAL PROJECT ID 436639-1-58-01

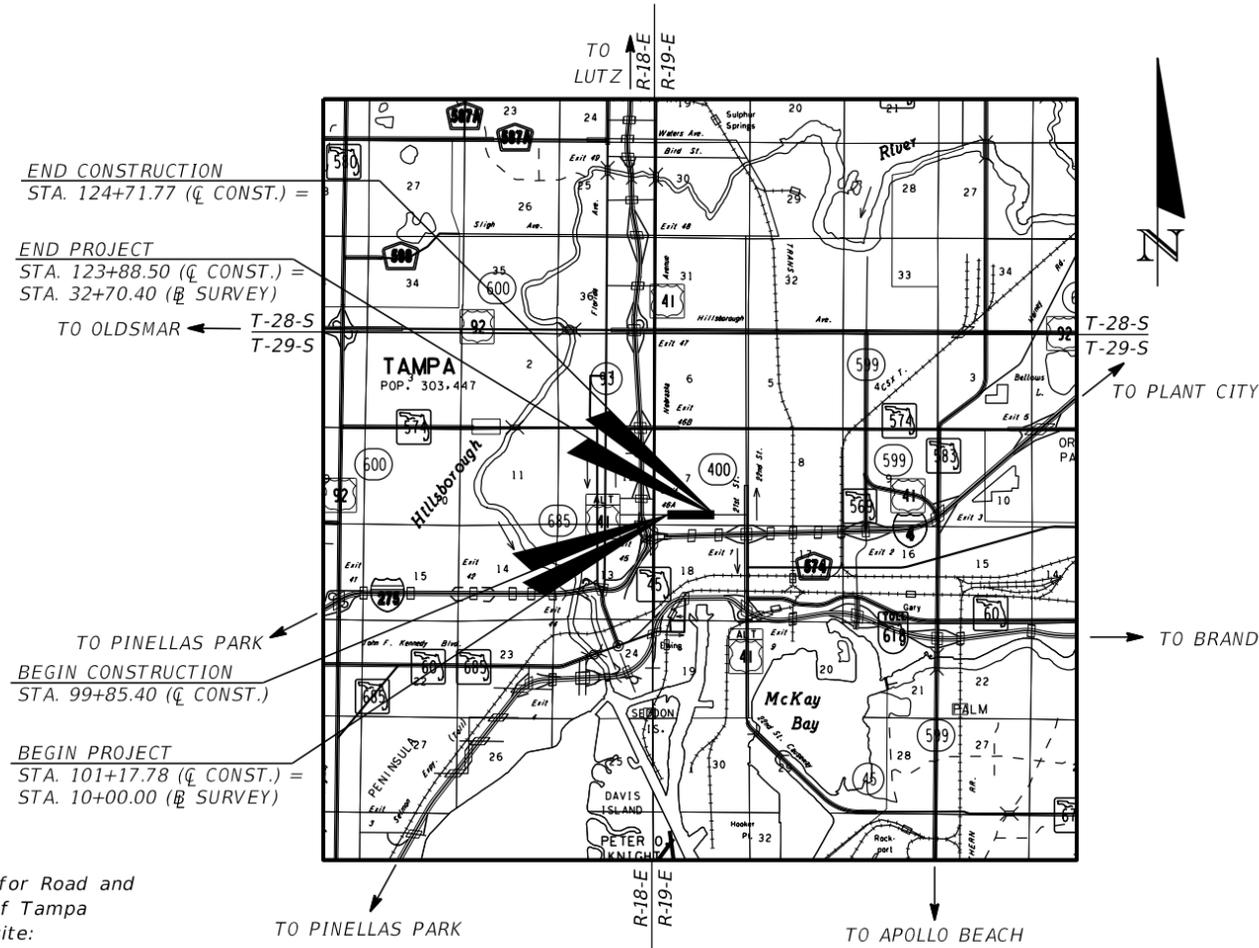
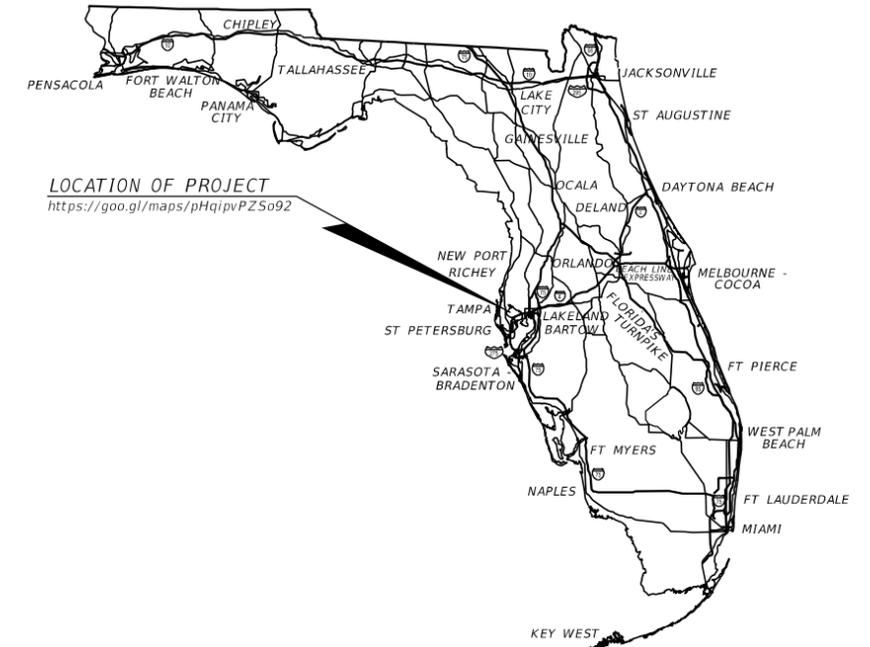
(FEDERAL FUNDS)

HILLSBOROUGH COUNTY

E COLUMBUS DR FROM N NEBRASKA AVE (SR45) TO 14TH ST

**INDEX OF ROADWAY PLANS**

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2 <sup>2B</sup>	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4 - 5	TYPICAL SECTION
6 - 7	TYPICAL SECTION DETAILS
8 - 10	SUMMARY OF DRAINAGE STRUCTURES
11	PROJECT CONTROL
12	GENERAL NOTES
13 - 17	ROADWAY PLANS
18 - 22	ROADWAY PROFILES
23 - 43	DRAINAGE STRUCTURES
44 - 46	DRAINAGE DETAILS
47 - 49	TREE WELL DETAILS DATA TABLE
50 - 54	INTERSECTION LAYOUTS
55 - 63	GRADING DETAILS
64 - 83	CROSS SECTIONS
84 - 99	DRIVEWAY HALF-SECTIONS
100 - 101	TEMPORARY TRAFFIC CONTROL PLANS
102 - 106	UTILITY ADJUSTMENTS
SQ-1 - SQ-13	SUMMARY OF QUANTITIES



**GOVERNING STANDARD PLANS:**

Florida Department of Transportation, FY 2020-21 Standard Plans for Road and Bridge Construction, applicable Interim Revisions (IRs), and City of Tampa Stormwater Standards: Which can be found at the following web site:  
<https://www.tampagov.net/sites/default/files/stormwater/files/sw-standard-details-2019.pdf>  
 For the City of Tampa Water Department Engineering Standard Details can be found at the following web site:  
[https://www.tampagov.net/sites/default/files/water/files/technical\\_standard\\_details\\_0.pdf](https://www.tampagov.net/sites/default/files/water/files/technical_standard_details_0.pdf)  
 For the City of Tampa Wastewater Department Technical Standards Guideline for Construction of Wastewater Facilities, go to the web page site:  
[https://www.tampagov.net/sites/default/files/wastewater/files/TECHNICAL\\_STANDARDS\\_GUIDELINE\\_FOR\\_CONSTRUCTION\\_OF\\_WASTEWATER\\_FACILITIES\\_JULY\\_2014\\_VERSION\\_6.PDF](https://www.tampagov.net/sites/default/files/wastewater/files/TECHNICAL_STANDARDS_GUIDELINE_FOR_CONSTRUCTION_OF_WASTEWATER_FACILITIES_JULY_2014_VERSION_6.PDF)

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

**GOVERNING STANDARD SPECIFICATIONS:**

Florida Department of Transportation, July 2020 Standard Specifications for Road and Bridge Construction at the following website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

**REVISIONS:**

- △ Roadway Sheets 1 & 2A
- △ Roadway Sheets 1, 2A, 3, & SQ-1 UWHCA Sheets U-1 & U-2

KEY SHEET REVISIONS	
DATE	DESCRIPTION
07-09-20	Added Sheet Number 2A, Revised Standard Specifications and Standard Plans Date
08-11-20	Added Sheet Number 2B

REVISION 2 PLANS  
 08/11/20

**ROADWAY PLANS  
 ENGINEER OF RECORD:**

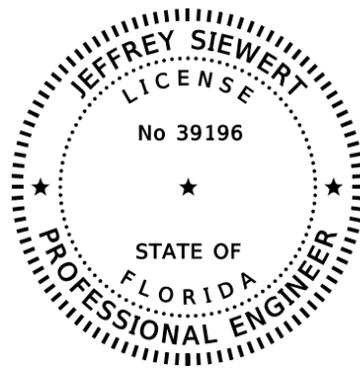
JEFFREY SIEWERT, P.E.  
 P.E. LICENSE NUMBER 39196  
 AYRES ASSOCIATES  
 8875 HIDDEN RIVER PKWY, SUITE 200  
 TAMPA, FL 33637  
 (813) 978-8688  
 CERTIFICATE OF AUTHORIZATION 4356

**PROJECT MANAGER:**

NINA MABILLEAU, E.I.

FISCAL YEAR	SHEET NO.
21	1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

AYRES ASSOCIATES INC  
8875 HIDDEN RIVER PKWY, SUITE 200  
TAMPA, FL 33637  
CERTIFICATE OF AUTHORIZATION: 4356  
JEFFREY SIEWERT, P.E. NO. 39196

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
1	KEY SHEET
2B	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
SQ-1	SUMMARY OF QUANTITIES

REVISIONS				JEFFREY SIEWERT, P.E. P.E. LICENSE NUMBER 39196 AYRES ASSOCIATES 8875 HIDDEN RIVER PKWY, SUITE 200 TAMPA, FL 33637 CERTIFICATE OF AUTHORIZATION 4356	CITY OF TAMPA TRANSPORTATION DEPARTMENT			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY PROJECT NO.	COUNTY	FINANCIAL PROJECT ID	
08-11-20	△ ADDED SHEET				1001221	HILLSBOROUGH	436639-1-58-01	<i>SIGNATURE SHEET</i>
								2B

SUMMARY OF ROADWAY

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
0101 1	MOBILIZATION	LS	1
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SUMMARY OF SIGNING AND PAVEMENT MARKING

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	15
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF (HISTORIC SIGNS)	AS	1
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	4
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF (HISTORIC SIGNS)	AS	6
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0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.765

SUMMARY OF SIGNALIZATION

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
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0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	525
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0632 7 6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1
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0633 2 32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	12

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
08-11-20	ADDED PAY ITEM		

JEFFREY SIEWERT, P.E.  
P.E. LICENSE NUMBER 39196  
AYRES ASSOCIATES  
8875 HIDDEN RIVER PKWY, SUITE 200  
TAMPA, FL 33637  
CERTIFICATE OF AUTHORIZATION 4356

SUMMARY OF SIGNALIZATION (CONT.)			
ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
0633 4 1	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE, FURNISH & INSTALL	LF	50
0633 4 6	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE, REMOVE	LF	30
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	28
0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1
0639 1610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS	1
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	105
0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1
0641 2 11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA	2
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1
0641 2 70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL- POLE 30' AND GREATER	EA	2
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	15
0646 1 60	ALUMINUM SIGNALS POLE, REMOVE	EA	5
0649 21 12	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 60'-40'	EA	2
0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	8
0650 1 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS	4
0650 2102	VEHICULAR SIGNAL AUXILIARIES, REPAIR/REPLACE/RETROFIT- FURNISH & INSTALL, BACKPLATE- BLACK WITH REFLECT BORDER	EA	7
0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	12
0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	3
0653 1 60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL- POLE/PEDESTAL TO REMAIN	AS	4
0654 2 22	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR POWERED, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS	6
0660 1103	LOOP DETECTOR INDUCTIVE, F&I, TYPE 3	EA	4
0660 2101	LOOP ASSEMBLY- F&I, TYPE A	AS	4
0660 4 11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1
0660 4 12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	4
0665 1 12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA	18
0665 1 60	PEDESTRIAN DETECTOR, REMOVE- POLE/PEDESTAL TO REMAIN	EA	5
0670 5110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS	2
0670 5600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	2
0685 1 13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	2
0700 3201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	4
0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	8

SUMMARY OF LANDSCAPING

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
526-1.2	RECYCLED BRICK BLOCK-PAVERS	SF	810
580-2.1.1	BALD CYPRESS 26' HT 10' SPREAD - INSTALL ONLY	EA	13
580-2.1.1.1	BALD CYPRESS 26' HT 10' SPREAD *FURNISH AND INSTALL*	EA	13
580-2.1.2	CHINESE FAN PALM-16' CT INSTALL ONLY	EA	14
580-2.1.2.1	CHINESE FAN PALM-16' CT *FURNISH AND INSTALL*	EA	14
580-2.1.3	IXORA 3 GALLON - FURNISH AND INSTALL	EA	49
580-2.4	PINE BARK MULCH	CY	2.4
580-2.5	PREPARED PLANTING SOILS	CY	2.8
580-3-1	STRUCTURED SOILS	CY	243
580-3-2	TREE GRATE - CAST IRON 72" SQ 16" DIA OPENING (PALMS)	EA	14
580-3-3	TREE GRATE - CAST IRON 72" SQ .36" DIA OPENING (TREES)	EA	13
580-3-4	TREE BRACING IN TREE WELL	EA	27
580-3-5	FABRIC WRAPPED STONE MATT #57 STONE	EA	27
580-3-6	TREE GRATE FRAME	EA	27
580-3-7	TREE GUARD TYPE-E, FOR 36" DIA OPENING (TREES)	EA	13
580-3-8	LUMP SUM -TRUCK WATERING FOR 1 YEAR FROM FINAL ACCEPTANCE	LS	1

SUMMARY OF UTILITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
1050 51202	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 2"	LF	16
1050 51206	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 6"	LF	65
1050 51212	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 12"	LF	20
1055 51112	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 12"	EA	4
1055 51412	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL UNION, 12"	EA	2
1080 23106	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 6"	EA	1
1080 23112	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 12"	EA	1
1080 24106	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 6"	EA	2
1080 27106	UTILITY FIXTURE- LINE STOP ASSEMBLY, FURNISH AND INSTALL, 6"	EA	1
1080 27112	UTILITY FIXTURE- LINE STOP ASSEMBLY, FURNISH AND INSTALL, 12"	EA	2
1080 29106	UTILITY FIXTURE, MECHANICAL JOINT RESTRAINT, FURNISH & INSTALL, 6"	EA	8
1080 29112	UTILITY FIXTURE, MECHANICAL JOINT RESTRAINT, FURNISH & INSTALL, 12"	EA	10
1644113 08	FIRE HYDRANT, F&I, STANDARD, 2 HOSE, 1PUMPER, 6"	EA	1
1644900	FIRE HYDRANT, REMOVE	EA	1

CITY OF TAMPA  
TRANSPORTATION DEPARTMENT

CITY PROJECT NO.	COUNTY	FINANCIAL PROJECT ID
1001221	HILLSBOROUGH	436639-1-58-01

SUMMARY OF PAY ITEMS

SHEET NO.

3

**INDEX OF SUMMARY OF QUANTITY SHEETS**

SHEET NO.	SHEET NO.
SQ-1	SUMMARY OF LUMP SUM ITEMS SUMMARY OF TEMPORARY TRAFFIC CONTROL PLANS SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION
SQ-2 - SQ-4	SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES
SQ-5	SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS SUMMARY OF EARTHWORK
SQ-6 - SQ-7	SUMMARY OF PAVEMENT
SQ-8	SUMMARY OF UTILITY ADJUSTMENTS
SQ-9	SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS
SQ-10 - SQ-13	SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

**PAY ITEM NOTES**

SHEET NO.	NOTES
0430-174-115	COST OF 35 CY OF FLOWABLE FILL BETWEEN CITY OF TAMPA WATERMAIN AND PROPOSED DRAINAGE STRUCTURES TO BE INCIDENTAL TO THE COST OF APPLICABLE DRAINAGE STRUCTURES.
0526-1-2	NOTIFY CITY OF TAMPA IN ADVANCE OF ANY POTENTIAL SHORTAGE OF HISTORIC BRICKS.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101 1	MOBILIZATION	1			
4.07	REMEDATION	1			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P	DAYS	P	P				
0102 1	MAINTENANCE OF TRAFFIC	LS		1			1		1		530 CONSTRUCTION DAYS	

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE III			PHASE IV			TOTAL		GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F	P	F		
			DAYS	P	P	DAYS	P	P						
0102 1	MAINTENANCE OF TRAFFIC	LS		1			1		1		1		530 CONSTRUCTION DAYS	

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION															
PHASE	DURATION	0102104						0102107 1						DESIGN NOTES	CONSTRUCTION REMARKS
		TEMPORARY SIGNALS & MAINTENANCE OF INTERSECTION - EACH DAY													
		EXISTING			TEMPORARY			EXISTING			TEMPORARY/NEW				
DAYS	#	P	F	#	P	F	#	P	F	#	P	F			
1 THRU 4	530	2	1060				2	1060							
SUB-TOTAL		1060					1060								
TOTAL		1060					1060								

REVISIONS				JEFFREY SIEWERT, P.E. P.E. LICENSE NUMBER 39196 AYRES ASSOCIATES 8875 HIDDEN RIVER PKWY, SUITE 200 TAMPA, FL 33637 CERTIFICATE OF AUTHORIZATION 4356	CITY OF TAMPA TRANSPORTATION DEPARTMENT			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY PROJECT NO.	COUNTY	FINANCIAL PROJECT ID	
08-11-20	△ UPDATED QUANTITIES				1001221	HILLSBOROUGH	436639-1-58-01	

**SUMMARY OF QUANTITIES**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

STATE OF FLORIDA  
CITY OF TAMPA

**WALK-BIKE LAP PROJECT**

CITY PROJECT NO. 1001221

FINANCIAL PROJECT ID 436639-1-58-01

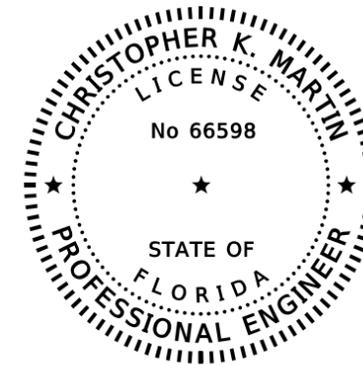
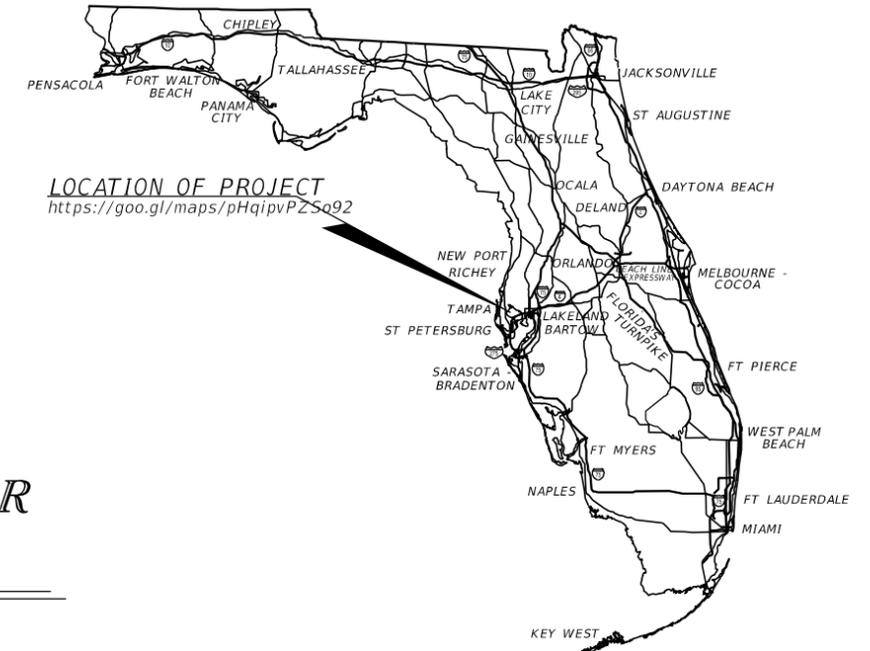
HILLSBOROUGH COUNTY

E COLUMBUS DR FROM SR 45 (N NEBRASKA AVE) TO N 14TH ST

**UTILITY WORK BY HIGHWAY CONTRACTOR  
WATER RELOCATION PLANS**

INDEX OF WATER  
RELOCATION PLANS

SHEET NO.	SHEET DESCRIPTION
U-01	KEY SHEET
U-02	TABULATION OF QUANTITIES
U-03	GENERAL NOTES
U-04 - U-08	WATER MAIN PLAN SHEETS
U-09	WATER MAIN PROFILE SHEET
U-10	WATER MAIN DRAINAGE STRUCTURE DETAIL
U-11	WATER MAIN CROSS SECTION DETAIL
U-12 - U-19	WATER MAIN STANDARD DETAILS



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL  
PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

**WATER RELOCATION PLANS  
ENGINEER OF RECORD:**

CHRISTOPHER K. MARTIN, P.E.  
P.E. LICENSE NUMBER 66598  
AYRES ASSOCIATES  
8875 HIDDEN RIVER PKWY, SUITE 200  
TAMPA, FL 33637  
(813) 978-8688  
CERTIFICATE OF AUTHORIZATION 4356

REVISION 2 PLANS  
08/04/20

**FDOT PROJECT MANAGER:**  
NINA MABILLEAU, E.I.

**REVISIONS:**

△ UWHCA Sheet U-01 and U-02. (Revised 08-04-20)

FISCAL YEAR	SHEET NO.
21	U-01

CITY OF TAMPA  
CIP NO.: 1001221 / FPID: 436639-1-58-01

SUMMARY OF UTILITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
1050- 51-202	UTILITY PIPE-DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 2"	LF	16
1050- 51-206	UTILITY PIPE-DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 6"	LF	65
1050- 51-212	UTILITY PIPE-DUCTILE IRON/CAST IRON,, FURNISH & INSTALL, WATER/SEWER, 12"	LF	20
1055- 51-112	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 12"	EA	4
1055- 51-412	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL UNION, 12"	EA	2
1080- 23-106	UTILITY FIXTURE-TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 6"	EA	1
1080- 23-112	UTILITY FIXTURE-TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 12"	EA	1
1080- 24-106	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 6"	EA	2
1080- 27-106	UTILITY FIXTURE-LINE STOP ASSEMBLY, FURNISH AND INSTALL, 6"	EA	1
1080- 27-112	UTILITY FIXTURE-LINE STOP ASSEMBLY, FURNISH AND INSTALL, 12"	EA	2
1080- 29-106	UTILITY FIXTURE-MECHANICAL JOINT RESTRAINT, FURNISH & INSTALL, 6"	EA	8
1080- 29-112	UTILITY FIXTURE, MECHANICAL JOINT RESTRAINT, FURNISH & INSTALL, 12"	EA	10
1644-113-08	FIRE HYDRANT , F&I, STANDARD, 2 HOSE, 1 PUMPER, 6"	EA	1
1644-900	FIRE HYDRANT, REMOVE	EA	1

2

2

PAY ITEM NOTES

1050-51-202 PIPE REMOVAL IS INCIDENTAL TO THE COST OF PIPE INSTALLATION  
1050-51-206  
1050-51-212

REVISIONS				CHRISTOPHER K. MARTIN, P.E. P.E. LICENSE NUMBER 66598 AYRES ASSOCIATES 8875 HIDDEN RIVER PKWY, SUITE 200 TAMPA, FL 33637 CERTIFICATE OF AUTHORIZATION 4356	CITY OF TAMPA TRANSPORTATION DEPARTMENT			SHEET NO.  U-02
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY PROJECT NO.	COUNTY	FINANCIAL PROJECT ID	
08-04-20	ADDED PAY ITEM AND PAY ITEM NOTES				1001221	HILLSBOROUGH	436639-1-58-01	

August 4, 2020

Ms. Nina Mabillean, E.I.  
City of Tampa – Transportation Division  
306 East Jackson Street  
Tampa, Florida 33602

RE: Columbus Dr. PoDI LAP Project RFI  
City Contract 19-C-00018  
City CIP# 1001221  
FPN: 436639-1-58-01  
RFI 1

Dear Nina,

Ayres Associates, Inc. has reviewed the interested bidder request for information.  
The question and response are below.

- Question 01 Can the tree well structure bottoms be precast structures or are they required to be cast in place?
- Response 01 Yes – preferably pre-cast.
- Question 02 The tree well detail sheets (Sheets 44-46) show a skimmer in each of the Diversion Boxes but we cannot find any more detail on these skimmers (dimensions, thickness, skimmer material). Is there somewhere in the plans or specs that this information can be found and, if not, can this information be provided?
- Response 02 Skimmer material to be 3/8 inches thick aluminum with 5 Inch flanges, 9 inches depth and length to fit within the inside width of the diversion box. Anchor bolts and washers to be stainless steel. Bolts to be ¼ inches x 2 inches.
- Question 03 The diversion boxes call for a sump bottom, is there a designated thickness of #57 stone, granite, or crushed concrete, that is required under the diversion boxes? If so, can this information be provided?
- Response 03 Please refer to FDOT Standard Plans for Sump Bottom, Standard Plans Index 425-001 – Supplementary Details for Manholes and Inlets Sheet 2 of 5 – Sump Bottom.
- Question 04 Is the city looking for a “washed” crushed concrete product for the #57 stone to be used at the tree wells?
- Response 04 The Tree Well details calls for 2 inches of Granite. Sheet L12 allows for an option of granite or clean crushed concrete – no limestone. The Contractor has the option.
- Question 05 We cannot find a measurement and payment specification for the utility work pay items in the contract documents. Can a measurement and payment spec be provided for the utility pay items included in this project?
- Response 05 See the specifications bid document Adobe .pdf pages 189-304/366

- Question 06 Under what/which pay item(s) are we to include the costs of any pipe removal?
- Response 06 Pipe removal and disposal will be incidental to the furnishing and installation of the new pipe. A pay item footnote will be added to sheet U-02
- Question 07 The tabulation of quantities sheet U-02 includes items for both 6" and 12" line stops (Items 1080-21-106 & 1080-21-112) but the bid form does not include them. Are we to use these line stops and include them in other pay items or is it not anticipated to need line stops to complete the work? If no line stops are required, is it the City's anticipation that they will be able to isolate the 12" water main using existing valves for us to complete the offset detailed on sheet U-06?
- Response 07 The bid form will be modified to include the Pay Items 1080-27-106 and 1080-27-112 as shown in sheet U-02.
- Question 08 The plans call for 2" ductile iron water main and there is a pay item for this, however ductile iron pipe is not made in 2" diameter. Should we use 2" SDR-21 PVC, 2" polyethylene tubing or something else?
- Response 08 Please use 2" HDPE.
- Question 09 Are the costs for any two-inch fittings (including bends and sleeves) and joint restraints to be included in the Pay Item for 2" water main pipe, as there are no other 2" pay items?
- Response 09 Yes.
- Question 10 Plan Sheet U-04 has a connection to the existing 2" water main, are we to include the costs of the connection in the 2" pipe pay item, 1050-51202?
- Response 10 Yes.
- Question 11 Plan Sheet U-04 calls for a 12"x6" Tapping Sleeve and Valve and Sheet U-05 call for a 6"x6" Tapping Sleeve and Valve to be installed, however there is only one pay item for tapping saddle/sleeve, Item 1080 23106, with a quantity of one. Which tapping sleeve/saddle gets paid for under this item and where do we include/bid the cost for the other?
- Response 11 The 6" tapping saddle is paid by Item 1080 23 106. The 12" x 6" tapping sleeve has been added to the plans and bid sheet.
- Question 12 Plan Sheet U-04 calls for a 6" 45-degree bend and a 6" x2" reducer to be installed, however, there does not appear to be pay items for either of these items of work? Where are we to include/bid the costs associated with these items?
- Response 12 Yes, all 6" fittings are to be included in the cost of pipe.
- Question 13 In Sheet U-06 it calls for us to connect to the existing 12" water main in two locations but there does not appear to be a pay item to include this work under. Are we to make the connections with the 45 degree bends we are installing and, if so, are we to include the cost associated with the connections under Pay Item 1055 51112 for the 12" bends?

Response 13 Yes.

Question 14 What type of restraints are to be included in the Mechanical Joint Restraint pay items? Would they consist of all manufactured, gasketed and external bell type pipe to pipe joint restraint on new and existing pipe as well as pipe to fitting mechanical restraint (Megalug) or just one or the other type of the two types listed?

Response 14 All new water pipe is to be restrained. All existing water pipe to be restrained per plan. Shop drawings to be submitted. City of Tampa CEI will approve restraints.

Question 15 How are we to restrain existing pipe as called for on sheet U-06, utilizing reverse deadmen restraint or going back on the existing pipe joints and installing bell restraints? Where would the cost to restrain existing pipe be included?

Response 15 No reverse deadmen restraint to be utilized. Existing pipe joints to be restrained with bell restraints. Follow the restraint joint standard table for distances on plan sheet U-15.

Question 16 What is to be paid for/included as part of Pay Item 0425 3 91 Junction Box, Drainage, Utility, <10'? We cannot find anywhere on the plans (Roadway Plans, Summary of Drainage Structures, Drainage Structures or Summary of Quantities) where these structures are shown, detailed or locations provided as to where they are to be installed. Can you please provide the intent for use of this pay item?

Response 16 This is the tree well box between the diversion box and the outlet box.

Sincerely,  
Ayes



Jeffrey Siewert, P.E.  
Project Manager



August 7, 2020

Ms. Nina Mabileau, E.I.  
City of Tampa – Transportation Division  
306 East Jackson Street  
Tampa, Florida 33602

RE: Columbus Dr. PoDI LAP Project RFI  
City Contract 19-C-00018  
City CIP# 1001221  
FPN: 436639-1-58-01  
RFI 2

Dear Nina,

Ayres Associates, Inc. has reviewed the interested bidder request for information.  
The question and response are below.

Question 01 Hello I noticed that the pay items 101-104 Temporary Signal & maintenance of Intersection & 102-107-1 Temporary Traffic Detection & Maintenance of Intersection may have to may days on it if there are 2 intersections and the Contract days are 530 there should be 1060 instead of 2120. Thanks

Response 01 Each pay item is for the duration of the project at 530 days, for each intersection. For two (2) intersections that would be:  
101-104 – 530X2 = 1060  
102-107-1 - 530X2 = 1060

Sincerely,  
Ayres



Jeffrey Siewert, P.E.  
Project Manager

August 7, 2020

Ms. Nina Mabileau, E.I.  
City of Tampa – Transportation Division  
306 East Jackson Street  
Tampa, Florida 33602

RE: Columbus Dr. PoDI LAP Project RFI  
City Contract 19-C-00018  
City CIP# 1001221  
FPN: 436639-1-58-01  
RFI 3

Dear Nina,

Ayres Associates, Inc. has reviewed the interested bidder request for information.  
The question and response are below.

Question 01 Hello Ana could you please let me know if the note on page T-4 in the Signal Plans note # 7 does this note say to use the regular accessible buttons that the City usually uses The Polara Bull Dog with latching ability or are they wanting the buttons that actually have a message on it. Such as the Navigator. Thanks

Response 01 The Buttons must be Latching, have a Tactile Arrow with a Red LED indicator and has a chirp signal to inform the pedestrian that the call has been accepted. With that, there is a rack mounted card that must be purchased that makes the Latching system Latch.

The button speaker must face down when mounted.

When purchasing the buttons, the contractor must be sure to have an accurate count of how many Left, Right and (if needed) Up facing arrows must be purchased, this is to keep the Technician from taking apart the buttons and breaking the seals which renders the button free from warranty if there is a failure.

The dismantling and reassembly of the buttons may render the buttons inoperable, if they are put back together wrong.

Also please note - all RRFB's do not need Latching or any type of audible buttons, however, they all need Tactile arrows.

Sincerely,  
Ayres



Jeffrey Siewert, P.E.  
Project Manager